Cleveland State University EngagedScholarship@CSU



ETD Archive

2009

Arme Blanche and Revolver: The French-Austrian School of War, The Frontier and the United States Cavalry

Michael E. Bryant *Cleveland State University*

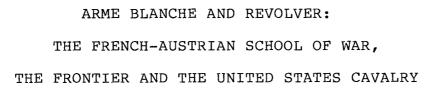
Follow this and additional works at: https://engagedscholarship.csuohio.edu/etdarchive Part of the <u>History Commons</u> How does access to this work benefit you? Let us know!

Recommended Citation

Bryant, Michael E., "Arme Blanche and Revolver: The French-Austrian School of War, The Frontier and the United States Cavalry" (2009). *ETD Archive*. 592. https://engagedscholarship.csuohio.edu/etdarchive/592

This Thesis is brought to you for free and open access by EngagedScholarship@CSU. It has been accepted for inclusion in ETD Archive by an authorized administrator of EngagedScholarship@CSU. For more information, please contact library.es@csuohio.edu.

AN ARMY IN SEARCH OF A MISSION THE U.S. ARMY TO THE CIVIL WAR



(2-(2-

Michael E. Bryant

Submitted in partial fulfillment of requirements for the degree MASTER OF ARTS IN HISTORY

at

THE CLEVELAND STATE UNIVERSITY

Cleveland, Ohio

December 1986

This thesis has been approved for the Department of History and the College of Graduate Studies by:

9-Thesis Adviser History Ja (Department/Date 987 Ġ 1937 (Department/Date) Muhuli History January (Department/Date) <u>1987</u>

TABLE OF CONTENTS

CHAPTER		PAGE
I.	Defeat and Reform: The United States	
	Army and the Adoption of the	
	French-Austrian School of War	1
II.	The French-Austrian School of War:	
	Strategy, Tactics and Cavalry	
	Warfare	63
III.	The Re-Emergence of the American	
	Cavalry - Frontier Security and	
	the Professional Army	95
IV.	Jefferson Davis, The 1856 Military	
	Commission to Europe and the	
	Minie Bullet Rifle: The Reaffirma-	
	tion of the French-Austrian School in	
	an Era of Technological and Social	
	Change	172
POSTSCRIPT	7	220
FOOTNOTES,	CHAPTER I	223
FOOTNOTES,	CHAPTER II	250
FOOTNOTES,	CHAPTER III	266

300

313

FOOTNOTES, CHAPTER IV.....

BIBLIOGRAPHY.....

Chapter I

DEFEAT AND REFORM: THE UNITED STATES ARMY AND THE ADOPTION OF THE FRENCH-AUSTRIAN SCHOOL OF WAR

Part I

For some forty years prior to the Civil War, the United States Army prepared itself for the task of successfully waging a European-style war. The humiliating War of 1812 provided the stimulus for a complete realignment of American military doctrine and practice along the lines of the prevailing French-Austrian school of post-Napoleonic warfare. Official American military policy in these years stressed the need for scientific, mathematically precise strategical and tactical theory, for a rededication to conservative political and social values and an emphasis upon traditional aristocratic warrior ethics. For these same forty or so years the Army was compelled by its political masters in Congress and in the executive branch to devote itself to the dirty and occasionally dishonorable task of Indian control and frontier security duty. Yet, the American Army of the European, French-Austrian school of war, remained virtually unaltered or affected by the protracted experience of frontier security duty. The pro-

nounced gulf between these two quite different yet nonetheless connected spheres of the Antebellum American Army is the subject of this investigation.

The War of 1812 exposed deep, crippling failures of ordnance, strategy and tactics, administration, logistics and, most appalling, leadership or as Secretary of War Lewis puts it:

...not withstanding the lessons left by the revolution, we entered the War of 1812 in a state of extreme inefficiency with respect to all the administrative departments of the military service. An utter waste of millions was the consequence.

Civilian control of the Army, particularly the direct command of field operations by Secretary of War John Armstrong and the selection of senior officers personally by President James Madison, produced strident opposition from many younger military commanders. And the severe malperformance of the militia, particularly the galling failure of New York troops to support the invasion of Canada, further intensified the demands of regular officers for significant, comprehensive reform of the United States Army.²

One of the few gains for the United States from its humbling experience in the War of 1812, was the emergence of a new generation of professional officers to replace the superannuated veterans of the Revolutionary War. In the forefront of new vibrant Army leadership were such influential officers as Edmund P. Gaines, Winfield Scott, Jacob Brown and Alexander Macomb. All were under forty years of age; all had risen to prominence during the course of the War of 1812, not one having entered the service prior to 1808.³ Moreover, the Army was truly their home, in that they were largely rootless insofar as ties to civil society were concerned. While by no means uniform in their principles of military science, these officers, nevertheless, were in substantial agreement as to the need for a complete and exhaustive reorganization and redefinition of the Army's role in national defense. The administration of President Monroe and his extraordinarily effective Secretary of War, John C. Calhoun, provided both a forum for the articulation and implementation of new concepts of military science as well as invaluable political support in navigating war legislation through a hostile and unreceptive Congress.⁴

The model upon which Army reform was to be based was that of post-Napoleonic, Bourbon France, then the center of military science. Certainly there was nothing in the brief history of American arms from which to develop an indigenous model of Army organization and doctrine. The pre-War of 1812 Army had been a small, ill-defined and ill-funded, desultory and even dishonorable military force. The regular Army was created essentially as an afterthought to the demobilization of the Continental Army. Thus, on June 2, 1784, Congress created a tiny eighty soldier force to guard the two United States arsenals.⁵ From that date on, through the War of 1812, the American Army resembled an accordion, as Congress enlarged and then just as suddenly decreased its strength as crises, real or imagined, came and went. In the 1790s, for example, as war loomed with France and as Indian problems escalated along the Old Northwest Frontier, Congress feverishly expanded Army strength to over three thousand men, a nearly two hundred percent increase. Yet when the threat of war evaporated or when Indian problems faded, Congress promptly implemented severe reductions of the Army as in the 1802 Peace Act.⁶

The pre-War of 1812 Army had labored thanklessly in the absence of any precise definition of its role in national war policy. It sometimes had been given responsibility for frontier security and on occasion it had been given a role in the defense against prospective foreign adversaries. But its exact mission remained at best a mystery, its reason for existence being confused and contorted by the recurrent shifts in Congressional interest toward the Army. Furthermore, little of note had been achieved by the early Army in its few consequential military actions. From General Arthur St. Clair's massacre in 1795 through the demeaning experience of the War of 1812, in which the United States had only succeeded in eking out a draw with Great Britain, the tradition of the American Army was largely bereft of triumph.⁷ The earlier American military model, that of the Royal Army, while in many respects still embedded in the matrix of the Army's organization and customs, was, in the years after

Napoleon, widely declared by progressive military thinkers to be obsolete and contrary to the latest advances in warfare.⁸ The Army had as well suffered previously from being a political football; in the 1790s the Federalists dominated the officers corps only to be undermined in their influence by the passage of President Thomas Jefferson's 1802 Peace Act, designed in part to create new positions for Democratic-Republican officers.⁹

For a small, fourth-rate military power, humiliated by recent defeat and the sacking of its capital, the choice of a model from which substantial reforms were to be derived The United States Army adopted wholesale was thus obvious. the methods of Bourbon France, the successor of Napoleon's Empire and the most successful and triumphant military power United States Army officers had even before of the day. 1815 laid the foundation for a long and beneficial association with the French school of war. During the Revolutionary War and afterwards, French military works had circulated widely among those Americans of a military bent; the early engineer corps was staffed almost exclusively with seconded or loaned French officers. The allure of French military prowess coupled with the dazzling color and elan of the Napoleonic armies, gripped the minds of officers on both sides of the Atlantic. General Winfield Scott was therefore dispatched, in 1815, by the War Department to visit the new

mecca of the art of war, to gather data on the reasons for the stunning French military achievements.¹⁰

The prism through which the new trans-Atlantic military doctrine was viewed, however, was not that of either the French Revolutionary Republic or the Empire. Rather it was the conservative backlash of the Congress of Vienna and the revival of the monarchy in Bourbon France which acted as filters, blocking out the more revolutionary and unsettling aspects of Napoleonic Warfare.¹¹ Only Prussia, due to a very different national reaction to Napoleon, developed a rival and quite dissimilar system of war fighting, one that would attract wide attention only after her crushing defeat of France in 1870. The United States, as with all other Western nations, studiously followed the lead of Bourbon France and Austria in revising and upgrading its system of war.¹² Thus as West Point professor Edward P. Mansfield put it so succinctly: "NAPOLEON of France may be regarded as strictly the Representative of modern [military] SCIENCE IN ACTION."¹³ William Duane, a major American writer on military subjects in the first decade of the Nineteenth Century, concurred fully with this position when he wrote in 1811: "the armies of France have exhibited an activity and an energy unexampled and unknown to the armies of other nations."14

The linchpin of post-Napoleonic warfare was the concept of officer professionalism. Officership, in the Sixteenth

and Seventeenth Centuries, by and large, had been a commercial trade, combining proven field success with acute business acumen. Due to the lack of substantial permanent military forces and as an alternative to the ineffective feudal levy, commercial officership and the employment of mercenary free companies became prevalent. Generals, therefore, had to sell their services to a prospective customer and in turn, raise the men and equipment to execute their employer's wishes. The distinct disadvantage of such commercial officers was that their loyalty all too often went no further than the size of their employer's purse. The profound intellectual and political reaction to the unrestrained, tartarean violence of the proceeding Thirty Years War led, in the Eighteenth Century, to the emergence of centralized monarchial nation states. Concomitant with such political concentration of power was the imposition of a royal monopoly on the exercise of military power. Correspondingly, standing armies, as opposed to mere royal bodyguards, reappeared in Europe. Officership, in turn, became a function of social class. The aristocracy were literally dragooned into military service by the new Now these factious and fatuous aristoabsolute monarchs. crats could safely exercise their militaristic tendencies only in the service of the state. Moreover, compulsory military service allowed the monarchy free access to the financial resources of these gentlemen and in turn bound

their fates with that of their lord. Such officers were very loyal, in terms of class identification. National origin, however, was of little import. Officers freely crossed borders in pursuit of military service and adventure. There was as well the emergence of a true community of officership; these men shared a common ethos of aristocratic social and warrior values and shared a common language, French.¹⁵

The gentleman officer was not a wholly satisfactory m model of military leadership. While extolling the warrior ethos of honor, elan and courage, there were at best, only limited requirements for technical expertise in the arts of Only the small number of artillery and engineer war. officers received any form of technical instruction. Thev thus constituted the intellectual, though not the social elite of Eighteenth Century armies, due to the highly specialized nature of their branch of military service. Most officers received only the most cursory formal instruction in the art of war. Prussia and Russia, for example, established military academies, run as crack infantry battalions, coupled with an apprenticeship in the ranks to weed out the incompetent and the unfit. Warfare, however, save for the complexities of siegecraft, was not a terribly demanding intellectual activity in these years. Basically, for most officers, all that was required of them was to be able to memorize the drill book, to be capable of

moving their men forwards and backwards and to execute the assorted evolutions of the line. The battlefield and not the classroom dominated military education. Furthermore, the first systematic works on tactics only began to appear in the late 1720s and the first crude treatise on strategy in the 1790s. What few works there were of a truly military nature (as opposed to autobiographies or philosophical inquiries into the nature and limits of war) were dominated by the mathematically-centered treatises of the artillerists and the engineers. While the need for improvement in the standards of officership gradually became apparent over the course of the Eighteenth Century, no clear idea merged as to what form the remedy should take.¹⁶

The astonishing success of the French Revolutionary Armies compelled a rapid reconsideration of the principles of officership. As barefoot, badly armed and trained citizen soldiers led by former noncommissioned and junior officers of the Royal French Army swept aside the traditional forces of Austria, Prussia and Great Britain, the need for substantial change in the concept of military leadership became evident.¹⁷ The French-Austrian redefinition of officership was both progressive and traditional in nature. On the one hand it was innovative in seeking to create a professional corps of officers, formally educated in the science of war. Professionalism is generally considered to be composed of five essential

components: First, a systematic body of specialized knowledge transmitted to members by a formal education process; Second, a commitment to use professional knowledge for the benefit of society; Third, a sense of belonging to a unique group, distinct from the rest of society; Fourth, professionalism is characterized by a high level of selfgovernment within the particular subculture, sanctioned by the larger society; Finally, a network of formal institutions and organizations concerned with the leadership In some and education of that profession. respects, therefore, a profession constitutes a kind of aristocracy of knowledge, membership being conferred upon those persons who have successfully applied themselves to the mastery of such specialized information and skills.¹⁸ Such trends were in turn a major aspect of the Industrial Revolution's effect of compartmentalizing technical knowledge and precise skills into narrowly defined categories.¹⁹

On the other hand, while modern in appearance, the French school of post-Napoleonic warfare was as well an affirmation of traditional aristocratic values. The leading problem of traditional officership, so painfully revealed by the French Revolution was the shocking degree of disloyalty of many lower-ranked officers, generally not of aristocratic birth. Thus, in addition to the incorporation of technical expertise, officership was redefined to insure complete

personal and political loyalty to the state. This goal was, therefore, a reaffirmation of the Eighteenth Century principles of isolating the military as completely as possible from the corruptions of civil society. Elan, honor and bravery, traditional warrior values, became institutionalized, via professionalism, as the moral basis of officership -- in other words, the military's equivalent to the conservative counter revolution of the Congress of Furthermore, it was to a degree, an expression of Vienna. the Romantic movement against the rationalism of the Enlightenment, albeit more of style than of substance.²⁰ Professionalism, to a degree, thus constituted a shield, guarding as well as isolating the officer corps from the politics and ideologies of civil society.²¹ This Janus-like quality of both modernity and traditional warrior values, was both the hallmark and the central weakness of French-Austrian, post-Napoleonic military doctrine, including its theory of officership. Over time, these discordant elements would tear against each other, with traditional usually emerging victorious. Only Prussia evolved a very different, far more technocratic definition of officership in which aristocratic warrior values gave shape but not definition to the concept of military leadership.²²

Part II

The debate over American war policy in the immediate post-War of 1812 years focused on the size of the regular Army. The larger the force retained by Congress, the less the regular Army's reliance upon the militia as well as its greater expense. The strength of the Army from 1815 to 1817 was approximately nineteen thousand. Such a force was far too large, politically and economically, for the nation to maintain in peacetime. In 1817, John C. Calhoun was made Secretary of War. During his brilliant administration, Calhoun, through internal reform and political haggling with Congress, hammered out the basic structural form of the United States Army until the administration of Theodore Roosevelt.²³

An ardent proponent of a standing army, Calhoun believed that a military force of no less than ten thousand men was the key to the effective defense of the nation.²⁴ Such a force, due to the limitations of and the length of time involved in sail-propelled ocean transport, was deemed sufficiently large to counter any foreseeable threat from a major European power. acting in conjunction with the senior leadership of the Army, Calhoun developed for the first time, a definition of the military's mission in the defense of the country. First and last, the Army was to be prepared to meet a European threat to American independence. This doctrine became ingrained as formal Army policy for the remainder of the Nineteenth Century. "However remote our situation from the great powers of the world", propounded Calhoun, "and however peaceful our policy, we are,

notwithstanding, liable to be involved in a war; and to resist with success its calamities and dangers, a standing army in peace, in the present improved state of the military service, is an indispensable preparation."²⁵

The years 1818 to 1821, were not, however conducive to Congressional support for such a radical and expensive departure from traditional American military practice. The severe downturn in the economy after 1818 placed considerable pressure upon Congress to make significant reductions in federal spending. With no major foreign crisis in the offing, with an army clearly too large for the needs of frontier security duty, the House on May 11, 1820 continued its traditional animus toward standing armies, directed the Secretary of War to report a plan for the reduction of Army strength to some six thousand men.²⁶

Although vigorously opposed by the full spectrum of senior Army leadership, Calhoun, effectively but grudgingly, set about his unpleasant task of reducing American military strength. In a rearguard action to preserve the embryonic concept of military professionalism, as well as to ensure the combat effectiveness of the diminished Army, Calhoun devised the concept of a modular or skeleton army:

The great and leading object, then of a military establishment in peace, ought to be to create and perpetuate military skill and experience, so that, at all times, the country may have at its command a body of officers, sufficiently numerous and well...instructed in every branch of duty, both of the line and of the staff; and the organization of the army ought to

be such as to enable the Government, at the commencement of hostilities, to obtain a regular [force], adequate to the emergencies of the country, properly organized and prepared for actual service.²⁷

In short, the Army would be so organized as to allow for rapid expansion in time of war. To this end, supernumary or cadre officers were to be attached to each line battalion, who in wartime, would command an additional fourth company, fleshed out by militiamen. The result would be an efficient and relatively problem-free expansion of the regular Army in periods of national emergency. On January 23, 1821 the House passed legislation providing for a force of six thousand men commanded by a single brigadier-general supported by a much reduced general staff. The result was to vitiate the effectiveness of Calhoun's skeleton army The Senate, exhibiting far greater support for the concept. modular army plan, passed legislation generally conforming to Calhoun's design: a six thousand man force organized for future expansion (although with fewer surplus officers than were requested by the Secretary of War), commanded by a major-general and two brigadier-generals and assisted by a somewhat smaller general staff. This legislative plan, while not expressly ratifying the idea of officer professionalism as such, nevertheless, gave considerable support to this definition of military leadership. In the end, the Senate version prevailed, setting the basic form of the Army for the rest of the century.

While the new Army system of organization was in fact too constricted to allow for efficient and ready expansion, it nonetheless represented a significant advance over the impermanent and wildly fluctuating pre-War of 1812 Army.²⁸ Yet the ultimate purpose of this reconstituted Army, the defense of the United States from foreign invasion, had ironically been effectively negated by the Louisiana Purchase in 1803, by the terms of the Treaty of Gent and by the political understandings reached by the leading European powers at the Congress of Vienna. The result of these three events, by 1820, in concert with the limitations of sail power, effectively provided for the political and military isolation from Europe so long cherished by many Americans.²⁹ Only the development of steam powered ships in the 1830s and 1840s significantly altered this physical isolation from European power.³⁰ Consequently, many Americans held the view that "the United States, from [its] peculiar geographical situation, have undoubtedly less need of military establishments than any other government now existing."³¹ The result was a small military service barely capable of meeting the unlikely threat of European aggression and saddled instead with the considerable burden of frontier security duty in the ever growing territories of the United States.

Part III

As in Europe, Americans interest din upgrading and systematizing the training of officers, were groping for some form of improved officer education. The need for some form of military education for American officers was realized as early as 1783 with General George Washington's response to a congressional committee's request for his views on National war policy. Washington, in his response, in part, argued for the creation of a national military academy. A variety of other plans were advanced from Alexander Hamilton's plan for a grand system of basic and advanced military instruction to Colonel Louisdale Toward's suggestion for a school for the preparatory training of officer candidates.

Implementation of these schemes came to naught.³² In 1874 Congress created the Corps of Artillerists and Engineers. The enabling legislation provided for eight cadets. Training, however, was of the instructional method, rather than through formal schooling.³³

The true origin of formal American military instruction began on March 16, 1802 when Congress established a school of engineering at West Point, New York. The primary motivation of the Jefferson administration of switching from its earlier opposition to military professionalism was its desire to end Federal domination of the officer corps.³⁴ The new military academy was established as a division of

the Corps of Engineers (separated in 1802 from the artillery); the superintendent being the Commandant of this corps. Access was limited solely to prospective engineer officers. No significant advance was made in the function of the Military Academy until 1806 when it was informally opened to cadets from other branches of the Army. Prior to this date, prospective officers for artillery or infantry service obtained military employment from the respective corps (the administrative body of each branch of the Army) which issued warrants to such candidates, subject to presidential ratification. On the whole, prior to 1817, West Point was a rather indifferent technical school designed solely to train engineer officers.

In 1812 legislation was passed by Congress significantly altering the form and purpose of the Military Academy. Drawing directly from the French system of military education, in particular, the distinguished army engineering school, the <u>L'Ecole Polytechnique</u>, West Point was remade into a truly academic school of war. The Corps of Cadets was enlarged to two hundred and fifty officer candidates and entry requirements were imposed mandating basic competence in reading, writing and arithmetic, with final selection overseen by the Secretary of War. Of considerable importance was the creation of the first professorships; the subjects, initially being natural philosophy, French and mathematics, demonstrated both the

European and the engineering foundations of the curriculum. The new importance of West Point was forcefully demonstrated by making senior cadet class ranking the overriding factor as to which branches of service were open to the prospective officer. Thus the preponderance of the officer corps, save for those promoted from the ranks or appointed directly from civilian life, would now have completed a common, standardized four year course of military instruction. The objective, in part, as in the numerous military academies opened in these years in Europe, was to create uniformity in the technical skills of war. More importantly, was the development of a new class identification among the members of the officer corps: a combination of traditional aristocratic values and the new concept of military professionalism. The impact of these reforms was delayed by the outbreak of hostilities in 1812 with Great Britain, which greatly disrupted the education of the country's future officers.³⁶

Chief Engineer, Colonel Joseph G. Swift, in 1816 issued a set of regulations which fleshed out the earlier 1812 Congressional legislation and, in turn, fashioned the basic structure of West Point down to the present day. A Board of Visitors, patterned after the analogous <u>Council de</u> <u>Perfectionment</u> of the <u>L'Ecole Polytechnique</u>, and composed of five distinguished gentlemen (frequently including the Senate and House military committee chairmen) was created to

oversee the annual examinations and to advise on the operation of the school.³⁷ Secondly, cadets were henceforth to be ranked on the basis of merit, as determined by academic performance. A comprehensive four year curriculum was established as well, with oral examinations held twice a year, in July and December. Moreover, the position of cadet was granted an official status in the Army's rank structure, subjecting the officer candidate to the service's code of military law. Finally, new and superior standards of Academy administration and organization were implemented, particularly the creation of a separate superintendent for the school. Organizationally, however, West Point remained wedded to the Corps of Engineers.³⁸ The revised and far more comprehensive course of instruction at West Point was thus made the technical foundation of the new Army professionalism.³⁹ Military writer Henry Barnhard succinctly identified what the cadets were expected to have mastered:

They ((the cadets)) were to learn the sterner arguments of the battlefield; to arrange squadrons for the handy fight; to acquire the profound knowledge of the science and materials of nature, which should fit them for the complicated art of war; to defend and attack cities; to bridge rivers; to make roads; to provide armaments; to arrange munitions; to understand the topography of countries; and to foresee and provide all the resources necessary to national defense.

Socially and politically, West Point, as "the nursery of officers," was designed to create a new class of military professionals, whose paramount loyalty would be to the central governmental authority.⁴¹ Or as Henry Clay put it, in the clearest of terms:

The individual receiving the advantages offered by these Instructions would not look to any particular State, but would have his obligation to the fountain head, and to the support and strength of the Union all his exertions would be directed.

The Army could, as with its European counterparts, be available for the suppression of rebellion and the maintenance of internal order. An officer corps, isolated from civil society and whose loyalty flowed not to the states but to the federal government, was a crucial element in the Army's potential effectiveness in forcefully insuring domestic tranquility and order. This use of the Army was rarely mentioned by its supporters due to the widespread hostility to any standing army as a threat to liberty. Yet one officer did anonymously state this potentially necessary use of the military:

Under a well organized and just government, the military body is always a check upon a certain class of people, and particularly individuals, who, existing in every country, are ever ready to foment violence and alarm.

A third key function of the revamped West Point was to serve as the transmitter, throughout the military establishment, of the new French-Austrian corpus of military science. The Military Academy thus, in part, existed:

...to introduce into the armies of the United States all the modern improvements in the art of war and the high state of discipline which distinguishes the best armies of Europe, to disseminate throughout our country a knowledge of

Military Tactics and Engineering so as to furnishing the means of rendering our militia as well as regular army an efficient arm; of defense in time of war; and to provide officers properly instructed and fully capable of superintending the construction of fortifications....

President James Monroe, pursuant to a scandal at the Academy, involving highly irregular procedures in the selection and passing out of cadets, culminating in Superintendent Captain Allen Partridge's court martial and acquittal, moved immediately to find a successor. Under Partridge, the Military Academy had been run as simply another Army post, not unlike the Eighteenth Century Berlin Academy for Prussian officers, with little effort to implement the new academic concept of military education. Major (later Colonel) Sylvanus Thayer was picked by Monroe to become the new head of the Academy. Few American officers were as thoroughly prepared for assuming the difficult task of installing the new system of professional military education and to rebuild the tarnished academic credibility of the Military Academy, as was Thayer. Educated in France, at the extremely prestigious L'Ecole Polytechnique, as well as West Point, Thayer was exceedingly well versed in post-Napoleonic military theory as well as in the most up-to-date pedagogical techniques. In the War of 1812, moreover, Thayer had distinguished himself as an officer of ability and talent; in his capacity as Superintendent, as General Scott described in the most laudatory of terms, he "gave development and great

excellence to that institution -- stamping upon it his own higher character."45 Under Thayer's enlightened guidance, the seminal features and the most enduring traditions of the Military Academy were created; it was "to his exertions, we owe, in great measure the success of the establishment "46 The result of Thayer and the Academy's staff labors was, in part, the development of the first and most important school of engineering prior to the Civil War. More importantly, in terms of the needs of the United States Army, West Point was to emerge as one of the finest schools of military instruction ever created. 47 For the United States Army, the new West Point, patterned after the leading European models, was intended to serve as the incubator for a new class of American professional officers, trained thoroughly in the most modern principles of scientific warfare while at the same time embodying the conservative ethos and warrior values of their aristocratic predecessors. In turn, the Military Academy would function as the catalyst for the transformation of the Army into a modern and truly effective and potent military service.⁴⁸

As with the rest of the dilapidated pre-War of 1812 Army, the officer corps was a dispirited and indifferent lot. "The old officers," according to General Scott, "had, very generally, sunk into either sloth, ignorance or habits of intemperate drink."⁴⁹ Officer warrants were a form of political patronage, awards being based on personal

contacts, party affiliation and state or regional identification. As with most other Eighteenth Century officers, American military commanders learned their trade on the job, their knowledge of the art of war being meager and as demonstrated by the Napoleonic Wars and the War of 1812, all too often dangerously inadequate. Complicating matters further, was the absence of a uniform system of tactics, beyond Frederich von Steuben's drill book, and no formal body of regulations until 1812. Political jobs, such as postmaster, were frequently taken up by officers, leading of course to a lessening of their interest in purely military concerns. The rank politics in officer selection and promotion, the obvious lack of military success and several uproarious moral scandals badly tarnished the reputation of the officer corps. No wonder that the new generation of military leaders, rapidly promoted due to the repeated failures of their predecessors, so impassionately endorsed the very callow principles of professionalism and the science of war. Scott expressed the anger and disgust of his contemporaries with their predecessors when he vehemently savaged their lack of martial prowess:

Shall a coxcomb who merely wants a splendid uniform to gratify his peacock vanity- be allowed unnecessarily to lose his men by hundreds, or by thousands, to surrender them in mass, or to cause them to be beaten by inferior numbers;- shall such imbeciles escape ignominious punishment?

In a very real sense, therefore, the American officer corps had suffered, as a result of the War of 1812, the same

sort of debacle, the failure of command and leadership, as had the nations of Europe in their wars with France.⁵¹ In Great Britain, by far the most traditional military power of the period, and the most backward in the eyes of the new professionals, her officer corps was similarly criticized for its lack of expertise in the science of war. As Blanchard Jerrold put it: "an English officer's education is expressed by so many pounds sterling."⁵² Post-Napoleonic military science was thus the curative of the trans-Atlantic military community followed more or less uniformly by virtually every Western nation with the pointed exception of Prussia.53 Effective future military leadership would demand a mastery of this new body of information and maxims. American devotion to the new European science of war was held by officers and military writers, such as Jacob K. Neff, as critical to the modernization and reform of the Army:

It should be asked why we obtain much of our information from European works, let it be remembered that we owe our tactics to Europe, and that it was against European tactics that our heroes had to exercise their powers. It was not so much the possession of superior tactics on the part of the Americans that crowned their efforts with victory₅₄ as the superior application of them to practice.

Thus the redesign of West Point as a school of the arts of war was primarily intended to insure a solid American foundation for the continual adoption and transmission of the new French-Austrian school of military science. As counseled by a very well informed Calhoun, "no truth is better supported by history than that under other circumstances being equal, victory will be on the side. . . who have the best instructed officers."55 The new concept of military leader thus clearly manifested the Janus-like quality of French post-Napoleonic military doctrine. the modern face of the French-Austrian school of war, in the field of military instruction, was represented by the adoption of a new, technical and very mathematical language and curriculum, drawn from the only available model, the treatises of the engineers and artillerists. In other words, as clarified by Colonel J.J. Graham of the British Army, mastery of the "science of war" was thus the "proper knowledge of the elements of war."⁵⁶ For the first time, military experience and practice could be expressed, analyzed, transmitted and taught in a universal, nonjudgmental and wholly scientific manner. The intention was to give the student of the science of war "a great superiority over those who have neglected military science under the mistaken notion that untaught honor with patriotism is sufficient."⁵⁷ Or as Scott put it, to give the West Point graduate, "a head upon his shoulders." 58

On a purely practical level of military command, according to Isaac Maltby, "war, like many other things, is a science to be acquired, and perfected by <u>diligence</u>, by <u>perseverance</u>, by <u>time</u>, and by <u>practice</u>."⁵⁹ Therefore, the necessity of long, hard study and practice, contrary to the quaint notion of the gentlemen as inherently an officer by act of noble birth, was now held to be essential to the proper instruction of the would-be officer, since, as stated by E. Hoyt, an American military writer, "an officer cannot be the work of a day."⁶⁰

The second face of the French-Austrian theory of military education and its command and leadership doctrine, its traditional and more important side, was composed of classical aristocratic warrior values. True excellence of command thus meant, in the first half of the nineteenth century, that an officer possessed the uncommon ability to "excel in the coup d'oeil."⁶¹ Or rather, as clarified by the noted French military Engineer and West Point instructor, Simon Francis Gay de Verron, "the coup d'oeil is the fruit of genius, of the union and assemblage of the talents which discovers instantly the relations of things, and promptly applies to the particular case or occurrence of moment."62 The concept of the coup d'oeil was the heritage of an earlier age in warfare in which there were substantially no military staffs, virtually no organization above the regiment, only the most inchoate principles of troop and unit movement and almost no literature, of a systematic nature, on the art of war. Successful military command, focused intensely on the performance of the great captains of war as guides and models, was truly the province of genius and its close ally, fortune. The new officer of the early Nineteenth Century, as defined by the great master of the French-Austrian school of war, Baron Henri de Jomini, was a mixture of the warrior tradition and the new science of war:⁶³

The most essential qualities for a general will always be as follows: First, <u>A high moral courage capable of great resolutions; Secondly, A physical courage which takes no account of danger</u>. His scientific or military requirements are secondary to the above mentioned characteristics, though if great they will be valuable auxiliaries. It is not necessary that he should be a man of vast erudition. His knowledge may be limited, but it should be thorough, and should be perfectly grounded in the principles at the base of the art of war. Next in importance come the qualities of his personal character. A man who is gallant, just, firm, upright, capable of esteeming merit in others instead of being jealous of it, and skilled in making this merit conduce to his own glory, will always be a good general...

Thus truly, "the science of commanding armies is a gift of Heaven. It is genius that inspires great generals; hence their rarity. But to make a good officer, only requires instruction and experience."⁶⁵ Technical expertise in the arts of war, while valuable, paled beside the sheer brilliance of a Frederick the Great or a Napoleon, the paragons of generalship. Fundamentally, therefore, to the officers of the first half of the Nineteenth Century, "the mode of war is an art and not a lame abstract science."⁶⁶ The theory of war could not therefore "exclude human nature," rather "it has to admit valor, boldness, and even temerity."⁶⁷ The truly effective officer was thus conceived

as the blend of disparate elements, of the coup d'oeil and the science of war, since excellence of military leadership demanded "the most extensive acquirements and the most superior of mental and moral qualifications."68 West Point could not of course have been expected to impart to its graduates the mystical qualities embodied in the coup d'oeil, although it did impart most effectively the patrician values and culture of the earlier aristocratic Rather, West Point served to equip American officer. officers with a basic competency in the new technocratic science of war and to identify the most promising candidates, under peacetime conditions, for future positions as senior military commanders. Officers were, after all, still defined as warriors, expected to heroically lead their forces into battle, and not as commanders or bureaucratic managers of complex military organizations. Thus West Point served the vital function of training and cultivating the new type of officer; one whose values and philosophy were those of their aristocratic predecessors but who was also equipped with a solid grounding in the technical science of war.

Despite the near uniformity of opinion, on both sides of the Atlantic, as to the nature of both competent and remarkable military leadership, at least one noteworthy American officer, Brevet-Major-General Edmund P. Gaines, openly challenged the paramount emphasis on the <u>coup</u> <u>d'oeil</u>. The effectiveness of an army depends on the character and qualifications of the captains of companies and commandants of regiments. With out these. . the most renowned general could effect but little. . .against the veteran troops of civilized nations. But with companies and regiments ably commanded, much may [be] effected without [the] towering genius of a Frederich or a Napoleon at the head of the brigade, division, or the army.

The modern and democratic tenor of Gaine's observation (who, in most matters regarding the post-War of 1812 American Army, was in full agreement with the rest of the young turks of the officer corps) clearly ran counter to both the arch political conservatism of the French-Austrian school of war and the bedrock of tradition which lay at the heart of the concept of military leadership. Most American (and European) officers would have instead sided with the concept of military genius as so strongly articulated by Colonel Patrick MacDougall of the British Army:

Great generals are heaven born, but it would be a very foolish conclusion from this truth that they may therefore dispense with the study of their profession. On the other hand, the art of war can never bestow those mental and physical qualities the combination \mathcal{A}^{f} which is indispensable in a military leader.

While the West Point of the Antebellum era was first and foremost a school of military science, its curriculum was dominated by engineering courses. Military theory, as understood today, was taught in a rather limited and not particularly detailed manner. Captain Dennis Hart Mahan, for example, devoted a mere two weeks of his seminal two semester course on fortification principles to tactics and

strategy.⁷¹ In the two years prior to the Civil War, some seventy-one percent of class time, on the average, was devoted to the study of engineering, mathematics and natural philosophy. The remaining twenty-nine percent of the curriculum was reserved for all other subjects, including French, dance and military science. Tactical training and expertise in all forms of weaponry was largely a matter of drill, particularly during the summer field exercises. Moreover, the technical subjects such as engineering were each weighted 2.0 or 3.0 by the Academic Board as compared to only a rating of 1.0 or 1.5 for "military" subjects. Thus, in terms of the cadet's order of merit and final class standing, which was determinative of his choice of branch of service and his position on the promotion list, excellence in subjects such as engineering and natural philosophy was far more important than, say, artillery drill in launching a career as an officer.⁷²

By modern standards, Antebellum officer training would seem too theoretical in its content. Clearly, modern officers require a broader education, combining managerial with combat and leadership skills than that afforded by the West Point of the first half of the Nineteenth Century. However, it must be of course noted that an Antebellum American Army officer was being trained to fight not a Twentieth Century but rather what was essentially an Eighteenth Century war. The mathematical domination of both the course of instruction at West Point and of military writing in general in this era is perhaps the most perplexing aspect of the science of war in the first half of the Nineteenth Century; reading Jomini and studying his numerous geometrical formulas, it appears that if followed to the last decimal, war could be fought automatically and with a constant degree of victory. Mathematics, and its practical application engineering, were clearly of inestimable value to the practitioners of the new science of war. The importance of mathematics was clearly stated by Hoyt:

...geometry is the science of measuring, or in other words it is the science that treats of and considers the properties of magnitude in general, comprehending the doctrines and relations of whatever is susceptible of augmentation or diminution.73 It is esteemed by many writers as the art of war.

Of what therefore were the calculations and formulas, in works of military theory representative of? They were most assuredly not abstractions, without mooring to actual military experience and history. Rather, they represented the first attempt to translate military historical experience into a universal and technically precise language. Military history, as in the preceding Eighteenth century, remained vital to military education, as engineering professor Captain Mahan so clearly understood.⁷⁴

> No one can be said to have thoroughly mastered his art, who has neglected to make himself conversant with its early history; nor indeed, can any... elementary notions

ever be formed of an art beyond those formulated by the more technical language without some historical knowledge of its use and progress; for this alone can give to the mind those means of comparison, without which everything has to be painfully created anew... it is in military history that we are to look₇₅for the source of all military science.

Certainly, the new scientific course of officer instruction was criticized precisely because it appear5ed as a radical departure from the earlier, informal reliance on military history, in conjunction with battlefield experience, to train officers.⁷⁶ Calhoun, most assuredly an ardent proponent of the Military Academy, questioned the emphasis on mathematics. And there was certainly more than an element of truth in the criticism of Inspector General John E. Wool's remark that great military success was "not achieved by... the measurement of angles".⁷⁷ As understood by Thayer and many other formulators of the new science of war, however, the supreme advantage of a mathematically centered course of instruction over traditional military history, emphasizing heroic feats of arms, was its very pronounced quality of being systematic and completely logical. Thus, "history is the basis upon which the principles of the 'science of war' are found", as expanded by Mahan's successor as instructor of engineering at West Point, Brevet Colonel J.B. Wheeler, and such knowledge could only be "acquired by systematic and methodical study".78 Therefore, since "facts must precede theory", "it is evident

then that an intimate connection exist between military history and the science of war".⁷⁹

The manifest and quite urgent need for a vastly improved system of both officer education and the writing and the writing and analysis of military problems had been clearly demonstrated by recent battle experience on both sides of the Atlantic. Military history, of the traditional variety, had clearly not been adequate in providing officers with basic technical skills of warfighting; while one could of course learn the secrets of winning great campaigns, heroic accounts of battles simply could not tell a captain how to best direct his company in battle or a second lieutenant how to build a temporary bridge. The new scientific officer was thus intended to be a considerable advancement over his immediate predecessor, the aristocratic officer, in his knowledge of and ability to employ technical military information and skills. A new critical and investigative frame of mind, one willing to a degree, to experiment, was thus necessary in order to bring about a significant upgrading of the basic standard of officership in both European and American armies. As McDougall explained, the aristocratic officer had been content simply to memorize the minutiae of the drill book and were "content to ignore the principles, or correct knowledge of which ((i.e., the science of war)), could alone enable them to apply those acquirements with any useful results".80 The

new science of war was developed, however imperfectly, to supply an officer with a logical, coherent and apparently valid framework of problem analysis and solution. Its model was the works of the artillerists and engineers who had made siegecraft a precise, mathematically certain task. Thus, for the proponents of the new science of war, it was evident that aside from true but rare military genius (which no program of instruction could be of course devised to instill in officer cadets), what chance would a traditional officer have against the superior attainments of the scientifically trained professional.⁸¹ It should be remembered that West Point was supposed to turn out high quality second lieutenants and not brilliant major-generals. Military skills for most soldiers - artillery, infantry and cavalry, such as loading a cannon, executing a column left or delivering a charge were not in themselves terribly difficult. The advantage of the new scientifically trained officer was that, in a pinch, he could with reasonable effectiveness perform all these tasks and many others as well. It was this very flexibility of mind and broad base of knowledge that conferred significant advantage to the new professionals.⁸²

Mathematics, as the new cornerstone of the military arts and science, was held by the new professionals to be a logical step in the gradual improvement of war fighting, since the end of the barbaric Thirty Years War, toward

34

ameliorating the passions and violence of war itself. It was a part of a logical progression from the development of international legal principles protecting captured soldiers and the imposition of restraints on wanton pillage and looting by an invading army. Thus, the very precision and coolness of mathematically centered military analysis would, it was hoped, work to constrain and eventually dissipate the primitive fears, emotions and animosities that drove men and In a very real sense, therefore, the nations to war. ultimate goal of the science of war was to provide for the very elimination of war itself, replaced, one assumed, by clean, faultless and bloodless logic as the new basis of peacefully resolving international conflict. Thus, the great strategist Baron de Jomini, defined military science as the pathway toward the purging of war from human history:

> Military science in our hands may then become the potent instrument of millennial triumph, the indication of universal peace. Military science prevents war, conducts it in triumph and under humane restraints, and will at last make war impossible; hence we learn our duty.

Engineering, in its immediate practical uses by armies and officers, rendered it of enormous value. One cardinal failing of Eighteenth Century armies was the common tendency of military services to grow soft and fat in peacetime. Paramount therefore to the ability of the new scientific armies maintaining their battle effectiveness lay in finding ways of exercising officers, soldiers and units and thereby

keeping them lean and trim despite the comfortable and devitalizing conditions of peacetime. As annunciated as early as 1800 by President John Adams, the peacetime Army must be so organized as to allow "military science, in its various branches... to be cultivated with particular cars."⁸⁴ Thus, in the intervals between hostilities, an army had to be kept effectively active so as to guard against the highly corrosive effects of prolonged exposure to the isolation of garrison duty. Such excessively defensive maintenance of regular troops was held to vitiate the ardor and elan of the men. As for the officers, the effect was defined as inculcating them the pleasant but illusionary comforts of garrison duty, rendering them lax in their study of the science of war. Finally, in terms of the army as an entity, the cumulative effect was to render it enfeebled for the sudden and unexpected rigors of war. The critical importance of keeping officers, men and armies alike, trim and lean - capable of being placed on a war footing on short notice - was crucial to the new professional military leaders. The inability of European armies (or for that matter, the American military service in 1812) quickly to prepare to counter the French threat underscored the crucial importance of developing techniques of maintaining a high degree of combat readiness in peacetime.

36

There were, according to Jomini, two possible solutions to this problem. One was clearly military, in its traditional sense: to exercise regularly in great maneuvers and sham battles "which, though but faintly resembling those of actual war, still are of decided advantage in preparing for war." Secondly, in a manner expressing the emphasis of military science on engineering, an army could be gainfully employed "in labors useful for the defense of the country."⁸⁵ This second solution bore the hallmark of Eighteenth Century limited war doctrine to minimize the burden of national expenditures for its military services and in turn, whenever impractical, channel such funds into enhancing the civil economy. Due to the pressing demands of frontier security on a small, illfunded military force such as the United States Army, the second technique of maintaining battle readiness was considerably more practical. Road and coastal fortress construction, while placing a considerable strain on limited military resources and fiscal outlays, particularly in regards to line units, was nevertheless invaluable as a training device. Large scale engineering projects after all utilized the same type of organizational skills as did complex field campaigns. In addition, such labors served to fulfill such tenets of professionalism as using specialized skills and knowledge for the benefit of society, which in turn worked to lessen the general hostility of the American people toward military

forces. An added direct military benefit was that engineering officers constituted the most promising and talented commanders in the Army. Their career growth was surely to be enhanced by tackling the innumerable difficulties of laying out and building a badly needed military road over several hundred miles of virgin country. Chasing Indians, as lowly and unmilitary task as could be imagined, was far better suited to the less cerebral types populating the infantry. As revealed by the failures of the War of 1812, there most certainly was a pressing demand for the construction of roads and other forms of interior lines of communication to correct the appalling lack of mobility of the Army. Casement fortresses were also required to shield the nation's coastlines against European invaders. Such projects were particularly valuable for those Congressmen in whose districts they were to be built, earning the Army political capital and currying favor with the influential.⁸⁶ Finally, perhaps the simplest and most practical rationale for an extensive grounding in engineering by professional officers, was that offered by Hoyt:

> Next to an acquaintance with the field exercises and duties of the camp, no part of military science is of more importance than fortification: for without some knowledge of this, how will he ((i.e., the officer)) be capable of throwing up work for the defense of a post or detachment... when he has not with him an engineer?

Public acceptance of West Point, as the fulcrum of Army professionalism, was mixed. Clearly the contribution to the development of civil engineering was immense. Yet for perhaps a majority of Americans, particularly during the Jacksonian era of the 1830s and 1840s, a very negative image of the Military Academy came to the fore in national politics. In some quarters West Point was depicted as still another cesspool of decadent European, aristocratic corruption antithetical to the values of the American republic. This line of criticism, in its broadest terms, was forcibly stated by Senator Thomas Hart Benton of Missouri, who argued that West Point was guilty of affording "a monopoly for the gratuitous education of the sons and connections of the rich and influential."88 Furthermore, the system of exclusive presidential selection of cadet applicants was vigorously criticized by Benton for entrenching in West Point graduates a belief that they were "independent of the people" and more grievously, were "irresistibly led to acquire the habits and feelings which in all ages have rendered regular armies obnoxious to popular government."⁸⁹ Critics frequently charged West Point with having unfairly and improperly usurped the right to supply the United States Army with officers, since according to proponents of this view, "in many circumstances better officers could be found among our militias." Α related complaint was that officers drawn from civil society

were stigmatized by their lack of professionalism, with "every exertion... made to crush him."⁹⁰ Thus, for its adversaries, "the Academy sits like an incubus upon [(our)] militia and they cry loud for justice and equal rights."⁹¹

The Army to a degree, closed ranks against the weight of public and political criticism, which ironically served to strengthen military professionalism. The rough-andtumble quality of Jacksonian politics was most distasteful to the very patrician members of the scientific, gentleman officer corps. The very democratic quality of the anti-West Point attacks was, by and large, contrary to the social ethos of the new professional officer, as sharply stated by one newly minted cadet:

Without it [(i.e., West Point)] our army would have become another political lazaretto, where a depraved executive could, and would, quarter its importune scavengers and palace begging lazzaronie, until it would become and unendurable stench in the national nostrils. Already... patronage [(has)] so far debased our government, as to grieve all honest patriotism; and were the army, navy and marine corps, to become like the custom houses and post-offices, but parts of a huge machinery for political pension and party warfare, better, far better, were it to at once disband them all, and leave hostile emergencies to be encountered as they could.

During the course of President Andrew Jackson's administration, the level of political opposition to the Military Academy grew to considerable proportions. Several state legislatures, including Ohio (1834), Tennessee (1833) and Connecticut (1842), passed resolutions calling for the termination of West Point.⁹³ In response, Congress, in 1844, completely revised the Academy's selection policy. Selection of cadets was removed from the purview of presidential authority and instead, was invested in the Congress. Under the revamped system, each Senator was allotted six cadet slots, each Congressman two and the President, ten. Nevertheless, despite such a major redrafting of the cadet selection process, entrance standards were not pared down. Thus there remained in place reasonably difficult entrance requirements, which still had to be hurdled by an interested candidate.

In the wake of the 1821 Congressional reduction of Army strength, Secretary of War Calhoun convened boards of officers to weed out the unfit, incompetent or poorly educated among the Army's commanders. From 1821 to 1832 only West Point graduates were allowed to enter the officer corps, save for a handful raised from the ranks. Subsequently, after 1832, civilians were granted admission, provided they satisfactorily passed an examination. West Point, however, continued to provide the bulk of the Army's officers; by 1860 its graduates constituted 7.58 percent of

the officer corps, including physicians and clergymen (who had always been promoted directly from civil society). А second major result of the Calhoun reforms was to instill a high level of stability within the officer corps. Granted that the combination of low pay, harsh working conditions, the slowness of promotion (there was no mandatory retirement age) and lack of social status served to deter many from seeking or continuing with a military career. Nonetheless, compared to the pre-War 1812 situation, a considerable degree of constancy was imparted to the ranks of the officer corps as a consequence of Calhoun's reforms. For example, of the thirty-two men at or above the rank of full colonel in 1860, when the seniority system of promotion for line units was replaced by one of merit, ten had held filed commissions in the War of 1812. The overwhelming remainder, had entered the Army prior to 1830.94

West Point succeeded in its central task of producing highly trained, professional soldiers, "men of intelligence and culture, who...[possess] the most exalted conception of integrity and moral and personal responsibility," according to graduate Colonel Randolph B. Marcy.⁹⁵ Without question, the four years spent at West Point, were the single most important experience of an officer's career. Cadet ranking in the senior year was the key to a high slot on the very slow promotion list (it usually took some three years for a brevet second lieutenant to gain an actual commission).⁹⁶ The more brilliant a cadet's performance, the greater the range of choice of selecting a branch of service.⁹⁷ After graduation, it was largely left to each officer to keep up with the changes in the science of war. Efforts at establishing a higher level of military education for senior officers, such as the Artillery School at Fortress Monroe, Virginia, collapsed in the 1830s due to lack of funds and the relentless demands of frontier security duty. In this regard, the United States lagged, but not all that much, behind its mentor, Bourbon France.

It should be noted that the cadets were after all, adolescent boys. For most, the freshmen year constituted their first protracted and independent stay away from home. Impressionable and malleable, the cadets were refashioned by the stern discipline into officers and gentlemen in four short years, after which they were expected to be able to lead men into combat. Inexperience and impressionableness thus added further to the extraordinary degree of influence and prestige enjoyed by the French-Austrian school of war among members of the officer cops. Thus as regards West Point's cardinal objective of instilling the principles of military science, history and of course honor in its charges, it succeeded, according to the rules of the day, with considerable effectiveness.98

43

Part IV

The organization of the Antebellum Army reflected the realignment of the military service upon the French model. Prior to 1812, Army administration had been highly decentralized, largely under civilian control, plagued by the corruption and inefficiency of private contractors, and poorly organized and operated. In 1812 Congress initiated major reforms in Army organization. Of major note was the establishment of a military quartermaster corps. The outbreak of war, however, interrupted efforts at substantially revising Army administration until after the cessation of hostilities. The postwar reforms were given new urgency by the shocking lack of effectiveness of the earlier system. On April 14, 1818, legislation personally authorized by Calhoun was passed by Congress resulting in the centralization of Army administration under the auspices of the Secretary of War.⁹⁹ Specifically, a single quartermaster department was created as well as a commissary general of subsistence and a surgeon general. More significant than the establishment of any one office was the introduction of the bureau system of administration. Major executive department were created under the auspices of the War Department and, in turn, subdivided into subdepartments, each with its own chief and staff of clerks.¹⁰⁰ The one critical failure of the reorganization scheme which, in 1821, the ordinance bureau was combined with the artillery as a single corps. This inefficient shotgun marriage was annulled by Congress in 1832.¹⁰¹

The organizational scheme of the Army, hammered out in the years 1815 to 1821, established two broad, independent divisions of the military command and administrative structure. The General Staff was composed of the semiindependent bureaus, such as the guartermaster corps, the corps of engineers, the adjutant general's office and the civilian-run paymaster's department in Philadelphia. Each bureau chief held the rank of colonel, with the exception of the Quartermaster General, who as a brigadier-general due to the great demands and prestige of his office. The bureau chiefs enjoyed considerable organizational autonomy, reporting directly to the Secretary of War. The national Headquarters was organized parallel with the General Staff. It consisted of the Commanding General and his small direction of Army field operations. By custom, the Commanding General was allowed the use of the two Inspector Generals and the Adjutant General. The former were responsible for inspections and insuring the military fitness of line units and bases. The latter functioned as the effective head of Army field operations, a kind of executive secretary insuring clarity of orders issued by the national Headquarters.¹⁰²

At the apex of the Army's chain of command, at least in theory, was the Commanding General. This office was

established by default under the terms of the 1821 reorganization, which retained one of the two major-general positions. The immediate purpose of this office was to address the severe problem of lack of supreme intra-Army command authority. During the War of 1812, one major failing had been the marked absence of any one officer empowered to act as the senior representative of the Army, positioned in the chain-of-command between the field department commanders and the Secretary of War. The primary command problem was one of definition of authority. The exact powers and duties of the Commanding General were thus exceedingly vague and ill-defined. Gradually, both Congress and the draftsmen of the Army's Regulations invested this office with seemingly impressive administrative powers. Functionally, however the position of Commanding General remained largely declared; whatever official powers it may have possessed, its authority ultimately lay in the personality and charisma of the holder of that position. The first Commanding General, Jacob Brown, ran this office as if its authority was truly vacuous. Essentially, Brown, who was extremely deferential to his superiors was content to be no more than the senior military advisor to the Secretary of War.

In 1828 Brown died, precipitating a bruising and quite unseemly tussle between the two brigadier-generals, Edmund P. Gaines and Winfield Scott, over the right of succession

to the office of Commanding General. In the end, both prospective candidates, by their vitriolic sparring and by refusal to obey orders, succeeded only in discrediting themselves. A compromise choice was found in Inspector General Colonel Alexander Macomb. The undercorous row over the position of Commanding General compelled Congress to undertake a re-examination of this office. Seeking to clarify the purpose and the purview of the Commanding General, Congress in 1828 formally defined it as the "medium of communication" between the government and the Army. This hardly constituted either a blanket or even a specific grant of administrative authority to this office. No real or substantive redefinition of the Commanding General's office emerged from Congress's further ponderings.¹⁰³ Thus it rested once again on the holder of the office, with the assistance of increasingly more specific Army regulations, to determine his role in the structure of organization and While Macomb (and from 1841 to November 1861, command. Scott) pursued a far more pugnacious policy of asserting the authority of the Commanding General, no substantial gains of administrative power were in fact tallied by such efforts. At no time was real authority over the bureaus ever exerted for any appreciable period of time by the Commanding General. Moreover, field operations were frequently conducted by the department commanders, on their own authority or directly under the orders of the Secretary of

War.¹⁰⁴ Consequently, the Army lacked a centralized, overarching command structure to direct and coordinate all aspects of organization and administration. The lack of central executive authority in the Army later proved one of the key difficulties in the Union efforts to win the Civil War and remained unsolved until 1903 when a modern general staff was created.¹⁰⁵ Yet this was a time when field commanders, according to the rules of the French-Austrian school of war, were expected to be brash and unflaggingly assertive in the direction and handling of military matters. Once in the presence of the enemy, the effective and honorable commander was expected never to "accept any plan ready-made, or any fixed instructions from your government on the manner of carrying on the war." according to Captain Auguste F. Lendy of the French general staff.¹⁰⁶ In this regard, military command continued to resemble more closely the practices of Seventeenth Century mercenary free companies than the highly bureaucratic armies of today. A11 in all, therefore, the office of Commanding General remained quite weak.

It has been argued and widely accepted that the organization of the Antebellum Army was principally derived from British military practice and was corresponding, highly decentralized.¹⁰⁷ In fact, while deficient in such respects as the training of staff officers, the United States nonetheless substantially realigned its system of Army

administration directly on French practice and methods. The general staff, responsible for army administration, had historically evolved out of the quartermaster corps.

The development of improved roads and significantly better techniques of topography, in the late Eighteenth Century led to a much greater level of army mobility. Thus, in order to locate camps and sources of provisions, the function of strategic reconnaissance and long range planning devolved out of necessity to the quartermaster corps. Slowly this fusion of administration, planning and intelligence gathering crystallized into what would begin to be recognizable as a true general staff by the conclusion of the Napoleonic Wars.¹⁰⁸

Of particular interest was the role of the field commander in French-Austrian tactical doctrine. The worship, as it were, of military genius and the <u>coup d'eoil</u>, was wholly representative of traditional aristocratic warrior values, not easily translated into an organizational chart. Consequently, as under Napoleon, staffs were defined as no more than tools to facilitate the will of the warrior commander. While transportation and communication expanded and military operations assumed continental proportions, the staff remained underdeveloped. Even the pronounced difficulties experienced by Napoleon in attempting to personally direct the massive warfighting operations of his vast Empire had no effect, save for the Prussians, on post

49

war military planners. The staff was thus confined principally to "supervise and coordinate the various branches, and thus relieve the commanding general of a multiplicity of details," as explained by General George B. McClellan.¹⁰⁹ "Without a well instructed and intelligent staff," counseled Colonel MacDougall, "the difference divisions, however admirable in organization and discipline as independent military units, would, when required to combine their action toward a common object, be found wanting in that unity of impulse which is indispensable to military success."¹¹⁰ Staff work remained no more than a coordinating process in this era. It did not, as is the rule today, plan and implement army operations. Only the Prussians developed the modern conception of the general staff, aimed specifically at correcting this key weakness in the Napoleonic warfighting system. The General Staff, was, by royal decree, in 1821, made a completely independent body from the civilian war ministry. The result was that the General Staff and its supreme chief-of-staff were responsible for all facets of Prussian army organization and leadership. American and French general staffs, in sharp contrast, merely tinkered with the Eighteenth Century model of military command and organization. 111

Structurally, French Nineteenth Century army organization was not dissimilar from contemporary American practice. Both were divided into administrative and command

departments, with strong institutional barriers between Thus, the General Staff was the equivalent of the each. intendance, the Etat Major, of the French Army, consisting of the guartermaster corps, the adjutant general's office and the other logistical and administrative bureaus. Similarly, the national Headquarters and the subordinate department responsible for field operations were patterned directly after the <u>directory</u> of the French army.¹¹² In sharp contrast to the orderly state of military administration in France and the United States, the British army's system of organization was exceedingly diffused. The Royal Army's administration was a veritable crazy quilt of separate and independent civilian and military department encrusted with tradition and custom; the artillery regiments, reminiscent of medieval guilds, did not even own their cannon, which were in fact the property of a civil ordinance office. Regimental supply, quite unlike either American or French efforts at centralizing military logistics, was in the British army left to the individual units. During the latter Drimean War (1853-1856), many of the crippling supply problems of the Royal Army could be directly traced to this enormous gulf between field units and the disorganized civilian administration.¹¹³

Though the office of Secretary of War was established by Congress on August 7, 1789, its precise role, relative to senior military leadership and the chain of command, was to

remain unclarified for over a century.¹¹⁴ The early experience of the War Department did little to enhance its reputation or authority. Only two truly effective and influential men held the office of Secretary of War in the Antebellum years: Calhoun and Jefferson Davis. The primary managerial flaw as that the position was usually filled by short-term professional politicians.¹¹⁵ The high level of turnover at the top thus served to frustrate the development of comprehensive and original war policies. It worked as well to undercut the personal authority of most Secretaries of War, who simply could not match the administrative knowledge, expertise in bureaucratic infighting and longevity of the bureau chiefs, who essentially served in their offices for life.¹¹⁶ At a still higher level of command, lay the perpetual battle between the President and the Congress over which branch would exert primacy in the development of national war policy. In the Antebellum era, this political struggle would ascend to inconsequential matters as the personal weapons of the rank-and-file or even the style of uniforms issued. Generally, in periods of war or during the infrequent tenure of an aggressive and interested Secretary of War, domination over military affairs swung to the president's corner. Thus, under the less than effective prosecution of the War of 1812 by the Madison administration or in the case of the far more successful (if no less combative) efforts of James Polk in

directing the military effort in the Mexican War, control over national defense policy was almost solely the province of the executive branch. Similarly, during both Calhoun and Davis's tenures as Secretary of War, the executive branch effectively controlled the outcome of most major policy resolutions. Generally, in the Antebellum period, however, military policy was essentially a Congressional prerogative. The legislative branch exerted dominance by its strangle hold over the budget and on occasion, by the direct passage of legislation encompassing specific policy decisions. One may wonder what influence, if any, senior military leadership exerted in this process. The answer is not much The divided system of command, the ambiguous role at all. of the Commanding General and the creed of military professionalism, which advocated that the officer corps stand aloof from the coarse and unseemly world of civil politics, combined to mitigate Army influence in the formation of war policy. In put was limited to unofficial personal correspondence with members of Congress. Lobbying by the Army was not a feature of Antebellum politics.¹¹⁷

Underlining the problem of executive versus the legislature, was the larger and more problematical question of civil control over the military. Standing armies only began to reappear in Europe in the 1640s. They were one of the most telling badges of the newly emergent absolute monarchies. So to was the switch to the use of aristocratic officers. No country satisfactorily resolved the thorny dilemma of civilian control over the permanent military The very nature and composition of a establishment. standing army resisted being bent to the will of elected civil authority. Its makeup was that of socially elite officers, isolated from and contemptuous of civil society and politics, and commanding the sweepings and dregs of that Furthermore, in the United States, while the society. larger society, during the course of the Jacksonian Age as a result of industrialization, was experiencing an era of startling growth of personal and social mobility, the perspective of military professionalism was backward looking in its reaffirmation of traditional, aristocratic warrior values. Military service had been, for several hundred years, a matter of personal loyalty to a superior and not to some disembodied and impersonal entity such as the state. From the viewpoint of the officer corps, an equally troubling problem was the relationship of the militia forces, by relying largely on the standing army. The only traditional monarchial state to fashion a workable solution In 1858, by royal decree, the Prussian was Prussia. militia, or Lander, was placed under the direct authority of the General-stab, with regular officers placed in command and sergeants drawn from a pool of loyal veterans. For most other nations, the process of integrating the army into society would only be resolved early in our own century.¹¹⁸

American popular opposition to the idea of a standing army can be traced back to the Radical Whig ideology of late Seventeenth Century England. The new permanent Royal Army, authoritarian and aristocratic by nature, was viewed by some as a constant threat to parliamentary government. 119 In the American colonies this issue came to the fore in the 1760s. Following the conclusion of the Seven Years' War, permanent British garrisons were established. Close association with the Redcoats provoked a revival of the earlier Radical Whig opposition toward standing armies. One key result of this reaction was a dramatic reassertion of the role of the militia as the primary source of colonial military power. To this end, the militias were overhauled and centralized under the authority of the local governing body, instead, as before, at the county level. In this movement lay the origin of the idea of a truly national American army, a concept which, however, would have a very long and quite painful gestation period.¹²⁰ In 1776 Samuel Adams warned:

A standing army, however necessary it may be at some times, is always dangerous to the Liberties of the People. Soldiers are apt to consider themselves as a Body distinct from the rest of the Citizens. They have their Arms always in their hands, their Rules and their Discipline is severe. They soon become attached to their officers and disposed to yield obedience to their commands. Such a power should be watched with a jealous Eye.

The fierce and passionate debate between proponents of the militia and the advocates of permanent military forces, had, at its heart, the fundamental question of the legitimacy of the regular Army itself. What struck in the craws of many Americans was the fear that standing armies were an inherent threat to civil liberties and freedoms. In other words, whether to choose between Lundy Lane, General Scott and the professional army of General Jackson, New Orleans and the state militias, as per the still fresh experience of The War of 1812. Fundamentally, both sides either for tactical reasons or out of conviction, would have concurred with the views of Brevet Major General Gaines, who in 1828 wrote:

That the militia forms the basis of the $\underline{defense}$ and productive power of the republic, the history of our independence and fortune, success and triumphant wars, with one of the strongest powers of Europe offers the most inefragable ((sic.)) evidence.

Basically, the opponents of the standing army concurred fully with Adams' earlier comments; Benjamin Butler forcefully stated, in no uncertain terms, that such bodies are "injurious to the habits and morals of the people, and dangerous to public liberty." Moreover, the Army was "productive of needless waste and expenditure."¹²³ To insure against the use of the Army as an instrument of tyrannical power by some would be Napoleon skulking within the ranks of the professional officer corps, it was thus necessary, according to militia officer, Captain M. W. Berriman, "to maintain a regular army not larger than the immediate needs of the frontier." To the proponents of the militia, the citizen soldiers of the several states were thus the true bulwark of national defense. "It is in this grant element of the volunteer soldier, the alacrity with which our young citizen chivalry leaps to arms... with eager and clamorous offers of service.... This indication of a warlike and inestible spirit that we find our real protection from old world jealousies and hatreds."¹²⁴

The defenders of the standing army number more than the members of the regular Army officer corps, although never a majority of the body politic. For example, the Attorney General of Massachusetts, William H. Sumner, in 1823, while accepting the correctness of the proposition that the regular military establishment was the historic enemy of liberty, nonetheless found a very real need for a standing army. "The militia intended for defense only; standing armies for aggression, as well for defense."¹²⁵ Thus effective national defense mandated both elements, acting in harmony and close cooperations.¹²⁶ Far less temporizing in his enthusiasm for the regulars was Western traveler Eastwick Evans, who excoriated the proponents of the militia for being simplistic in their opposition to a large standing army:

In this particular, we seem to have been unduly influenced by our too general idea or a standing army; - an idea which at the ceremony of a hearing, every suggestion of reason. We are not children, and it is high time to put aside bugbears. Our prejudices against the standing armies are natural, and in some respects, salutary, but in fleeing from the water, let us not run into the fire. Naturally, of course, it was the regular army officer corps who were the most ardent defenders of a large standing army. Their arguments were premised on the ineffectiveness of the militia, again revealing the Janus-like quality of the new officer professionalism. According to one side of the argument, the standing army was an effective means of sparing the nation the expense, fiscally, socially and politically, of the burdens and terrors of war; as expressed by Captain Philip Cooke:

What amount of treasury has been expended the guardians of the Treasury can best answer, those conversant with militia claims, can best estimate: - to what purpose with what gains to the nation, military men might answer if they pleased, but all conversant with figures can demonstrate that the militia operations ((in)) 1832 ((e.g., the Black Hawk War)) cost a sum that would support the regiment of dragoons for ten years, to say nothing of an immense loss arising from a gene4ral neglect of business, particularly farming.

A second line of professional officer criticism, as annunciated by General Scott, was reflective of the new technocratic expertise in the science of war. As a fighting force, the militia graded out very badly, due to its lack of discipline and for an almost complete ignorance of the science and art of war. Such criticism was characteristic of the intense post-Napoleonic conservative reaction against the excesses of the French Revolution in particular and democratic government in general:

Discipline is the sole ((sic.)) of an army, and that, without the habit of obedience, a mass assemblage of men in battle can never be more than a panic stricken mob. The fields of Princeton, Spanish River, Camden... during the war of the Revolution not to speak of latter disasters, amply sustain the declaration of Washington, that such undisciplined forces are nothing more than a destructive, expensive, and disorderly mob. When danger is a little removed from ((i.e., the militia)), the well affected, instead of flying to arms to defend themselves, are busily employed in removing their families and their effects while disaffected are concocting measures to make their submission and spread terror and dismay all around, to induce others to follow their example.

Short enlistments and mistaken dependence upon our militia, have been the origin of all our misfortunes, and the great accumulation of our debt. The militia comes in, you cannot tell how; go you cannot tell when; and act, you cannot tell where; consume your provisions, exhaust stores, and leave you at a critical moment.

Thus, the Army defined the militia as simply "respectable mobs, useful, if at all, as auxiliaries for the regular troops.¹³⁰ Or more colorfully, according to Cooke, as a "swarming hive, catching horses, electioneering, drawing in auctions... electing officers, mustering in, issuing orders, disobeying orders, galloping about, 'cursing and discussin'... everything but actual hard fighting."¹³¹

The Army's position was strengthened by the militia's gradual disintegration as a military organization over the course of the Antebellum period. The militia, to a limited degree, was federalized under the terms of this legislation, all citizens between eighteen and forty-five years obligated to perform annual militia duty with their state forces. Ideally, the forces of the U.S. Navy, Army and Militia, "should be so organized and arranged, as to cooperate harmoniously and effectually, in all times of emergency, for the promotion of the public security."¹³² In operation, however, the militia act was exceedingly decentralized in its effect: state armed forces remained largely independent, with little federal input as to such elementary matters as uniforms, weaponry or tactics. Initially, all equipment and arms were to be supplied by the militia-men themselves. The clear lack of enthusiasm for such a burden by the citizen soldiers led to state provision of military stores, followed, from 1808 on, by limited amounts of arms and accouterments by the federal government. As the sense of national insecurity from a European threat diminished following the War of 1812, the popularity of the militia correspondingly decreased.

An alternative to militia service, developed by the states themselves, in particular Massachusetts, from the 1820s on, was the establishment of volunteer companies. Such units satisfied the letter of the militia act, while at the same time, allowing the members of a volunteer company to create their own style of military service. Such companies, marked by gaudy uniforms, were a great hit on the two annual militia days, as would-be heroes tried not to embarrass themselves unduly by their pronounced lack of expertise in the manual of arms or the issuing of the simplest commands (frequently from printed cards). From a practical military perspective, both varieties of state troops were almost completely unfit to take the field as

combat troops. Moreover, the lack of integration with the regular Army further weakened the overall effectiveness of the national defense system or, as stated by Colonel Jonathan Winters, "without uniformity every military system must be a rope of sand."¹³³ Still another problem arose from the terms of service of militiamen in comparison to the volunteers. Militia units could only be led by their own officers, did not have to serve beyond their state boundaries and were not subject to the provisions of the Army Regulations. Volunteer companies, in contrast, were obligated, in periods of hostilities, to submit to either state or federal officers and could be employed in military operations beyond their state borders. The unpleasant possibility of being mustered into federal service was of little consequence compared to the decided social and political advantages one could reap as a member of one of the more elegant volunteer companies. While repeated calls bemoaned the deterioration of the militia and the numerous plans were trotted out to remedy this problem, no actual reform was in fact undertaken. There was lack of interest, save for a brief flurry of activity in the early 1840s, for an effective overhaul of the militia and virtually no real enthusiasm for the development of a truly centralized Thus, as opposition to the standing army military reserve. hardened, the only countervailing force to the regulars, the militia, was wasting away due to neglect. 134

The development of military professionalism was by no means a complete success. Certainly, the vigorous and frequently virulent politicking of even senior officers in the public domain, for position within the Army was not conducive to the achievement of political isolation of the military as required by the tenets of professionalism. In the 1820s and 1830s professionalism by-and-large was practiced by Army officers in their official capacity as soldiers but not in their own private sphere. Slowly, nonetheless, as more West Pointers entered the officer corps, professionalism grew substantially in dominating, however imperfectly, the perceptions and beliefs of the Army's leaders. Moreover, a strong, administratively centralized Army emerged, which unlike its pre-War of 1812 predecessor, was fully capable of warding off the attacks of its many critics and riding out fluctuations in popular opinion toward the professional military establishment. The Army which emerged in the years 1815-1821 would not alter its essential mission, its professionalism or its doctrine until late in the Civil War. It remained until then, a modern, progressive military service, the embodiment of the French-Austrian school of war.

CHAPTER II

THE FRENCH-AUSTRIAN SCHOOL OF WAR: STRATEGY, TACTICS AND CAVALRY WARFARE

Part I

Two great war-fighting systems emerged from the wake of the Napoleonic Wars. For the preponderance of the Nineteenth Century, military science in Europe and the United States was dominated by the tenets of the French-Austrian school of war.l Within its ranks could be numbered such luminaries of the new science of strategy as Archduke Charles of Austria, Colonel Henry Halleck of the United States and Colonel Patrick MacDougall of Great Britain. Its grandmaster was Baron Antoine Henri de Jomini of Switzerland and France, whose clear, precise and traditionally-grounded writings served as the foundation of the nascent concepts of military professionalism, science and education on both sides of the Atlantic Ocean.² The other school of strategy was that of Prussia, and was led by General Karl von Clausewitz, whose writings would only begin to have influence on the trans-Atlantic military community after France's crushing defeat in 1870. In the Antebellum era, Clausewitz was known to some American officers (his seminal treatise, On War, is listed in Halleck's bibliography to Elements of Military Art and Science for example), but generally was not

influential since the Prussian's writings constituted such a radical departure from the orthodox military tradition.³

The French-Austrian school of strategy constituted the conservative military reaction to the excesses of the French Revolutionary and Napoleonic Wars. It embodied the conservative reaction against the legacy of the French Revolution as manifested by the Congress of Vienna in 1815. Fundamentally, as the keystone of the French-Austrian school of war, Jomini and his followers concluded that the Napoleonic Wars were an historical fluke, a brief retreat into the ideologically-motivated style of the earlier Thirty Years War. They advocated that the Eighteenth Century limited-war tradition should be restored so that wars would once again be limited in purpose and scope. Essentially, the French-Austrian school failed to come to grips with the militant nationalism, the development of citizen armies, the importance of ideology and the increasing importance of economics and technology in determining the outcome of armed hostili-These innovative aspects of the French Revolutionary ties. and Napoleonic Wars were not comprehensible to traditionalists like Jomini, who expected the profession of arms to resume its function as an increasingly scientific and yet deeply heroic and aristocratic discipline.

As a second fundamental conclusion, future wars would not assume the colossal scale of the Napoleonic Wars. Army size would shrink to the proper size of fifty to two hundred

64

thousand men. Such small armies would accommodate fully the needs of professional military services with only limited requirements for reserve forces. Such numbers reflected the optimum size of a military force which could be commanded and directed with orthodox principles of command and leadership doctrine. A warrior commander could, with traditional line-of-sight techniques and without the necessity (or nuisance) of a large staff and more complex, sub-army formations such as divisions or corps, direct no more than fifty or so thousand men. Essentially, the warfighting system of the Antebellum American Army was that of the French-Austrian school. In turn, the French-Austrian school, in the main, was a slightly updated version of Eighteenth Century limited war. The goal of limited warfare was to minimize, to the greatest possible extent, the cost to society of war by insulating it from its worst and most destructive effects. This same goal motivated the professional soldiers of the post-Napoleonic era, in their quest for a cleaner, more scientific warfare.⁴

Strategically, warfare was, from the Seventeenth Century on, essentially a function of siegecraft until the French Revolutionary and Napoleonic Wars. None of the uncertainties or hazards of pitched battle in unfamiliar enemy country were present in a well executed siege. The geometrically precise techniques of siegecraft were certain and highly effective. Armies on the move, on the other hand, were subject to an iron law of declining effectiveness, as wear and tear increased, as the discipline of the parade ground flagged and as desertion increased. While siegecraft could, if bungled, result in an army penned between a fortress and an adversary's field forces, it was far less risky than open battle.

Still another brick in the foundation of limited war lay in the tactical movement of armies. Due to the pronounced limitations of Eighteenth Century drill systems, one army could not maneuver with sufficient dispatch or celerity to force a second into battle or even surprise it. Pursuit of a retreating foe was not feasible, save in the extremely rare case of a rout. The danger was that the pursuing army would be drawn out and extended over many miles, thus providing a very tempting target to the enemy.⁵

Army mobility was further imperiled by the paucity of good roads and navigable rivers, a problem which only began to be solved by the close of the Nineteenth Century. Maps were in short supply and of exceeding poor quality. Principles and techniques of army direction were those of line-of-sight command; the warrior commander was, due to the primitive quality of signal communications and the absence of staffs, personally required to lead his men into combat. Arms technology placed limitations on the nature of war. The flintlock musket and bayonet combination, mandated the use of highly trained and disciplined soldiers; the close order nature of battle in these years, compelled by the limited range of the musket, resulted in the frightfully high average casualty rate of between thirty and forty percent per battle. The need for highly-disciplined, veteran (most men were in their mid-thirties) soldiers led commanders to place a premium on experience over youth, proficiency over agility and strength and discipline over innovation.⁶ The combination of all of these varied factors, in conjunction with the limited financial resources of agrarian, pre-industrial states and the scarcity of all kinds of military resources, established a strong inclination against the free expenditure of manpower in battle.⁷

The French-Austrian school of war, however, did not simply revive Eighteenth Century warfare in total. Instead, they forcibly grafted upon this earlier military doctrine Napoleon's emphasis on the offensive. The defensive character of limited war was thus augmented, if only in spirit, by a new emphasis on the offensive; or as forcibly stated by Jomini:

Battle once resolved upon, be the first to attack; if the defensive is to be avoided in the general conduct of war, it is entirely unreasonable in action. It is a known fact that the offense, besides its tactical advantages, excites the ardor and courage of the men. Thus, when compelled to fight, always advance towards the enemy, unless you are under the cover of impregnable entrenchments, and even then always manage some outlets that will allow you to debouch from them.⁸ The fundamental maxim of grand tactics, according to American military writer Jacob K. Neff, was "to attack the most vulnerable point of the enemy, which conquered, would be the most decisive in terminating the war.⁹ At the same time however, the goal of war remained firmly within the limited war tradition--competitive states resorting to the use of armed force, when other methods had failed, to redress grievances against their neighbors or for limited strategical gain such as acquiring, a valuable port or a desirable treaty concession.¹⁰

The French-Austrian school of strategy therefore fused the defensively centered concept of limited war with Napoleon's penchant, for offensive warfare.¹¹ The real failure of the French-Austrian school of war, in a strictly military sense, was in not understanding how the radical changes in tactics brought about by the French Revolutionary Wars and later exploited by Napoleon with such outstanding success, had in fact washed away much of the bedrock of limited war theory.¹² This failure of comprehension foreshadows the later problem, beginning in the 1840s, of how radical technological change, including armament, could as well change the practice and nature of warfighting.¹³

Contradiction was the hallmark of the French-Austrian school. What thus issued from this marriage of opposites was a system of war in which the attack was everything and in which the frontal assault was hailed as the true test of

an army's martial prowess. At the same time, however, this body of military science, with equal emphasis, counseled the studious avoidance of pitched battle. Combat was to be accepted only when one possessed a decisively superior tactical advantage. Furthermore, while championing the spirit of the offense, what would in time be called the <u>elan</u> <u>vitale</u>, war, in accordance with the tenets of Jominian strategy, was waged for limited political objectives and goals, in the classic Eighteenth Century manner.14

The competitive strategical system was that of Prussia and General Clausewitz. The Prussian school serves to highlight the deficiencies of their competitor's system. Inexplicably, it was one of Europe's most traditional and autocratic states that pioneered a wholly different school of warfighting. As the heirs to the grand legacy of Frederick the Great, the shattering defeat at Jena in 1806 by the upstart French armies was world shattering in its impact on the Prussian high command. It was almost incomprehensible to the senior Prussian army commanders how the ragtag, undisciplined citizen soldiers of France commanded by an ex-corporal could so totally whip the once pre-eminent military power of Europe.15 The basic premise of the revamped Prussian warfighting machine was completely contrary to the French-Austrian brand of military science. Wars were defined as being struggles between not only warring nations, but warring peoples as well. Consequently,

huge conscript armies would be required, dependent upon the availability of well trained, ready reserves; the regular army would therefore not bear the brunt of the war alone but instead would serve as the leader of a collective national effort. Fundamentally, the Prussian concept of war was militantly aggressive; the quaint gentlemanly notion of limited war being shunted aside. In addition, the concept of soldier as robot, as in Frederick's day was forever replaced by a new and radically different emphasis on teamwork. Prussia, became the prototype of the modern nation in arms, with the army on a permanent footing.¹⁶

United States Army warfighting doctrine was completely Jominian in the Antebellum era.¹⁷ Tactical theory, whether artillery, infantry and later, cavalry, were wholely based on standard French manuals, translated into English. Winfield Scott's 1818 and 1836 infantry manuals represented no more than formal ratification of the 1816 and 1833 French works.18

Part II

The classical tradition of mounted warfare constituted a very traditional and aristocratic body of military doctrine, increasingly out-of-place in the post-Napoleonic era of scientific warfare.¹⁹ The cavalry was traditionally regarded as morally superior to all other branches of army service on the ground that it was blessed with inherently

greater endowments of aristocratic virtue, honor and elan than the more plebian infantry or technocratic artillery. The hallmarks of the mounted service were its zeal, its nobility, its richer sense of honor and its superior style and audacity.

The golden or classical age of European cavalry ran from the 1640s to 1815. In the mid-Seventeenth Century, Gustavas Adolphus of Sweden almost singlehandedly resurrected the use of cavalry as an effective tool of war. Prior to the classical age, cavalry had been in a state of severe decline. Its utility as an effective military weapon had withered due to the introduction of vastly improved missile weapons and the revival of the phalanx. Gustavas, through the development of combined arms doctrine, developed a means of redressing the balance of warfare so as to allow for a renewed, if more circumspect, role for mounted troops. Small light-weight cannon (falconets) were introduced in combination with detachments of musketeers to provide direct fire support for the Swedish cavalry. While this technique, due to improvements in artillery, of mixing infantry and cavalry in the same tactical formation, below that of the division was declared taboo by later cavalry theorists, it was nonetheless, a significant break-through in mounted warfare in its day. The key to Swedish cavalry success lay in this effective use of missile fire in disrupting opposing infantry formations prior to launching the horse soldiers on their headlong, and hopefully, decisive charge. The net effect was a dramatic revival of cavalry effectiveness.²⁰

Insofar as the specifics of mounted warfare were concerned, Gustavas made a crucial advance, perhaps the single most significant one prior to the Civil War, in cavalry organization by reworking his horse soldiers into a disciplined and controlled fighting force. In order to maximize their shock potential, Swedish cavalry was reorganized into formal military units, expressly designed to engage the enemy as a tightly disciplined and controlled military force and not as a mob on horseback. To this end, cavalry was, for the first time, deployed in a linear formation of three ranks, replacing the traditional, densely clustered cavalcade assemblage. Tactically, cavalry deployment would, over the next two-hundred-and-fifty years, be largely a matter of gradually reducing mounted formations to double and single rank formations. In regards to armament, Gustavas authored a revival of the arme blanche, or in this case, the saber, as the quintessential calvaryman's weapon, a position that the sword would retain into the 1930s.21

The next great era of cavalry development was initiated by Frederick the Great of Prussia. Inheriting one of Europe's worst mounted services, noted for fat troopers on slow plow horses, Frederick transformed his cavalry into the most effective horse units ever created in the classical

tradition. The key improvement lay in the use of artillery. Specifically, Frederick created the first true horse artillery. Consequently, the Prussian mounted service was provided with its own organic fire support. Horse artillery consisted of small, highly mobile cannon drawn by teams of fleet horses bestride which rode the gunners rather than being transported in a separate wagon. Thus hard-moving mounted units, for the first time, were assured of having ready artillery support capable of marching their own high This system represented a further rate of movement. enhancement of the crucial principle of combined arms; tactically, the horse artillery served to pulverize opposing infantry formations so as to facilitate an effective cavalry attack.²²

Frederick's cavalry attained a level of training and organization never achieved before or since by classical European mounted units. Due to the efforts of the first military veterinary service and the first army breeding farms, the Prussian cavalry was provided with excellent horses. Tactically, this advantage translated into an ability of Prussian horse units to charge exclusively at the gallop, over unprecedented distances of up to eight-hundred yards. Such breakneck speed allowed the Prussian mounted troops to reach opposing infantry and artillery before a second volley could be discharged against them. The trend toward placing primary emphasis on the <u>arme blanche</u> as the

cavalry's weapon, was continued by Frederick; pistols and carbines were therefore relegated to such secondary tasks as reconnaissance and guard duty. To enhance the cavalry's shock effect, Frederick popularized the trend toward outfitting the largest percentage of his troopers as heavy cavalry or cuirassiers, so named due to their distinctive It was in this period that the tendency breastplates. toward specialization of cavalry into light, heavy and dragoon units jelled. Tactically, the cavalry, under Frederick, continued to place a key emphasis on the charge; all other duties being demoted to a distinctly secondary role.²³ As the Prussian warrior king himself put it, laying down at once both the fundamental principle of cavalry warfare as well as its most salient and essential myth: "with the cavalry attack it is not the size of the horse but the impetuosity of the charge that turns the scales"....24

The third and last great cavalry innovator was Napoleon of France. The pre-Revolutionary French cavalry was an exceedingly ineffective branch of service even though its schools of mounted warfare were without peer in Eighteenth Century Europe. The actual worth of French cavalry in combat, however, was negligible, due to exceedingly poor horseflesh, deficient organization and mediocre officers. The key changes introduced in the French cavalry by Napoleon lay mainly in organization (for the first time mounted units were concentrated into brigade and even divisional size for-

mations), unit specialization and the strategic application of mounted troopers in intelligence gathering. At no time during the assorted Napoleonic Wars did French mounted units enjoy the benefits of prime quality mounts or even an adequate supply of horses of any kind. Correspondingly, charges had to be made exclusively at the trot rather than the gallop and the employment of cavalry in battle was held to a minimum, so as to keep as many animals fit as possible. Tactically, Napoleon authored no new model of mounted warfare. Rather, as in other tactical aspects of war, Napoleon was content to borrow wholesale from the earlier French Revolutionary generals. Napoleon simply concentrated much more of everything--cavalry, artillery and infantry-in his battles, relying on his personal brilliance at tactical and strategical management.25

The overriding factor in determining the way that cavalry was utilized in battle was the type of armament it carried. The cardinal weakness of mounted troops, was in fact, its extremely ineffectual armament. Granted that all weapons were exceedingly limited in range and lethality (some infantry commanders, for example, considered the musket little better than a fire stick, useful for making a disquieting noise and slightly more so, as a convenient place to attach a bayonet), cavalry armament was even less effective. Three distinctive types of weapons were employed by mounted troops: firearms (pistols and carbines), lances

and swords. In determining weapon effectiveness, writers of this period fused technical performance with perceptions of how such a device stood in relationship to such aristocratic values as an elan and honor. Universally considered distinctly inferior to the lance of saber, firearms were largely confined to secondary tasks such as scouting and picket duty and thus occupied the lowest rung in the hierarchy.²⁶ Basically, "the pistol can only be considered as a weapon of necessity," according to Count von Bismark of the Prussian cavalry, for "its fire is uncertain, short, and seldom efficacious."²⁷ As for the smoothbore carbine or musketoon, it was "an important weapon for the attack of the skirmishers in extended line," but otherwise not a useful cavalry weapon.²⁸ Only the lowly, jack-of-all-trades dragoons were customarily equipped with the carbine and in turn expected to fight, in a fashion, while dismounted. The true cavalryman, however, had little, if any, affection for this weapon and would have fully concurred with Jomini when he wrote:

I do not know what the carbine is good for; since a body armed with it must halt if they wish to fire with any accuracy, and they are then in a favorable condition for the enemy to attack. There are few marksmen who can with any accuracy fire a musket while on horseback and in rapid motion.²⁹

This opposition to firearms was rooted in cavalry history and experience. Gustavus's revival of the <u>arme</u> <u>blanche</u> was done precisely because of the pronounced

inaccuracy and lack of range of the firearms of his day. The horse pistol was a true monster of a weapon. Virtually a miniature cannon, it weighted up to six pounds (about the same as a modern infantry rifle), had a hellish kick to it when it indeed actually discharged and its effective range was less than fifteen yards. The butt of the horse pistol was therefore usually bulbous in shape and heavily weighted so that it could easily be wielded as a club for the purpose of bashing an adversary's skull. Otherwise, one literally had to have the barrel touching one's opponent in order to insure registering a kill when discharging this gun. Furthermore, attempting to fire a pistol accurately while sitting astride a moving horse at the trot, let alone at the gallop, while simultaneously attempting to stay in formation bordered on the impossible. Trying the same stunt with a musketoon simply lay beyond the province of most mortals. As for the effective range of the smoothbore carbine it was at best no more than seventy-five yards. Since both species of firearms were flintlocks, with an exposed primer for the ignition powder for the primary charge inside the weapon, connected by a touchhole, they could never be employed in adverse weather. Still another shortcoming was the ever present danger that a poorly loaded gun, or one with an inferior grade of powder could easily blow up.30 This lack of firepower of traditionally armed cavalry produced, out of experience, the following maxim of war, as stated by

Lieutenant-Colonel George T. Denison of the Canadian Army, that cavalry "has no fire, and therefore is not suitable for defense, and can only resist an attack by making an anticipatory onset."³¹ Gustavus's technique of interspersing musketeers among his mounted squadrons or Frederick's development of horse artillery were no more than partial solutions to this pressing lack of firepower or mounted units. Thus, horse soldiers were compelled to rely largely on edged weapons, best suited for use in the charge.

An alternative, and far more noble, cavalry weapon was the highly controversial lance, which reappeared in Western Europe in the middle of the Eighteenth Century. Its immediate origin lay with the Asiatic, semi-nomadic tribesmen of the Polish and Russian steppes. Made of hardwood, preferably oak or ash, it featured a sharpened metal tip and frequently as well, metal sheathing for the forward third of its length so as to prevent it from being hacked off by a sword. Such weapons were invariably adorned with the colorful regimental pennant. Precisely due to the lance's superior length and its supposedly greater fear-generation capacity than the saber, more than a few cavalry commanders preferred to send their lancers in first against the enemy line, followed by the heavy cavalry. This greater psychological terror of the lance was a result of the "apprehension of being run through ((which)) has a powerful effect upon a man."32 But only a few zealots, at any given time,

ever believed one could actually fight a cavalry melee with lances against sabers and have the former prevail. The lance was simply too clumsy and too unwieldy for close-in, mounted horse-to-horse fighting.³³

Specifically, "a lance is useless in a melee", according to cavalry expert Captain L.E. Nolan of the British Army, "the moment the lancer pulls up and impulsive power is stopped, the instant the power of the weapon is gone.³⁴ The lance was a wholly offensive weapon according to Bismark, "only applicable to the attack and the charge."³⁵ A major disadvantage of the lance was that it took far more time than the customary two years of basic cavalry instruction to train a trooper in its use. "This is a most efficient weapon when used by a thoroughly trained man," cautioned Bismark, "but in the hands of new levies it is perfectly worthless."³⁶ The lance enjoyed fits and spurts of enthusiasm by rather fickle cavalry leaders. In general, it was not terribly effective; its limitations virtually outweighed, in practical terms, its alleged frightfulness. Yet it possessed a strong visceral appeal to the aristocratically minded professional cavalry officer which transcended such mundane issues as tactical effectiveness.³⁷

The premier cavalry weapon was of course the <u>arme</u> <u>blanche</u>: The saber or sword. In order to master this deceptively simple weapon, some nine months of intensive practice was devoted to learning the innumerable intricacies of the saber dance or drill. To the popular mind, fancy uniforms, mighty steeds and the flashing glint of cold steel constituted the images of what cavalry should be. To extremely conservative cavalry commanders of the Eighteenth and Nineteenth Centuries, the saber was without peer; the pistol and the carbine second-rate interlopers of limited utility. Such perspective, which at times bordered on the mystical, did in fact make perfectly good sense in an era of exceptionally short range muskets and highly exposed, tightly packed infantry formations; an age in which the cavalry still had a fair chance of succeeding in its role as shock.³⁸

Even in the Eighteenth Century, the saber was held to be more useful for the infliction of psychological rather than physical injury, but the droit and effortless motion of the swordsman on horseback is far more the stuff of legend than of historical reality. Such feats were perfectly possible if one's target were meekly standing still, one's mount not unduly active and one's weapon indeed had an edge on it. Such combination of fortuitous circumstances was all but unheard of in the customary melee or in cavalry versus The horse provided a very unstable infantry engagements. platform; the trooper in battle was in a constant state of motion as were his mount and his adversaries. A goodly portion of the saber dance was directed to training the would-be trooper how to fight in the environment of several

different but interrelated planes of space with geometrically precise patterns of sword play in the course of the very jumbled and exceedingly disorienting cavalry melee. Rarely did a trooper have more than a few opportunities for a head-on clear shot. Rather, the norm were glancing blows which rarely proved fatal or even disabling. The traditional heavy cavalry garb afforded ample protection against the saber, further diminishing its effectiveness. Moreover, it was virtually impossible to maintain a truly sharp edge on a saber while in the field. And it was deemed a breach of the rules of war to employ a grinder to give a sharp edge to a sword.

Despite the clear ineffectiveness of the saber, cavalry men remained, in effect, spiritually wedded to the arme Even the later introduction of revolvers and blanche. breechloading, magazine carbines failed to shake most cavalry leaders in their faith in the deadliness of cold steel. The mystical devotion to the saber long after Samuel Colt had manufactured his first cap and ball revolver had little if anything to do with a carefully reasoned and rationally based evaluation of the comparative merits and demerits of each category of cavalry weapons and the corresponding tactics that would best exploit their particular characteristics. Rather, from the mid-Seventeenth Century on, the cavalry branch of service came to be dominated by a very aristocratic brand of officer, self-

cloistered as it were from the disagreeable changes in the technology of war, beginning with the introduction of the flintlock musket and running through the more deadly by-products of the Industrial Revolution. This overwhelming commitment to tradition regardless of military and social change was the hallmark of the blueblooded European and American cavalry officer.³⁹

The types of cavalry armament described above, engendered the development of specialized mounted formations tailored so as to enhance either a particular weapon or a specific tactical role. What were in effect the equivalent of today's main battle tank were the armored cuirassiers or heavy cavalry. Out of necessity, as well as to enhance their shock effect, the cuirassiers rode the largest and heaviest horses. In the years immediately preceding the Civil War, considerable debate raged among cavalry experts as to the merits and utility of the cuirassiers. The crux of this issue was whether the advances in weaponry in the 1850s, in particular the Minnie bullet rifle, would so shift the balance of tactics in favor of the infantry as to liquidate the shock function of heavy cavalry altogether. This controversy was the leading issue with cavalrymen on both sides of the Atlantic as to the future character of their branch of service. The minority view was propounded by, in the main, light cavalry officers such as Captain

Nolan, who rather caustically dismissed the worth of heavy cavalry when he wrote:

Composed of large men in defensive armor, mounted on heavy, powerful horses are held in hand for a decisive charge on the day of battle, and their horses are so deficient in speed and endurance, being so overweighted that they require light horse to follow up the enemy they had beaten.⁴⁰

The scantiness of actual battlefield experience as to the deadliness of the weapons served to undercut the credibility of the position of the light cavalrymen. Moreover, the considerable hold of tradition on cavalry doctrine further hindered any effort at modernizing mounted warfare. J. Roemer, of the Dutch cavalry, and a passionate proponent of the <u>cuirassiers</u> as the elite of the mounted service, rejected the minority's position as unsound:

...substituting fervid inclination for cool judgment, they have concluded that henceforth there is need but for that one kind of cavalry, and the one in whose welfare they are particularly interested.41

The dragoons were proper members of the cavalry fraternity, albeit of distinctly lower military status. While trained to fight as skirmishers when dismounted, the signifying characteristic of the dragoon was that he could, in a pinch, deliver a charge, in lieu of heavy cavalry. In addition, the dragoons could be gainfully employed for reconnoitering and camp security duties. Historically, dragoons, named for their early hand armament or dragons, first appeared in the English and French armies in the

Fifteenth Century as mounted infantry. Such units were originally created to provide a more versatile and cheaper form of horse soldier than the mounted knight. By the Nineteenth Century, however, the dragoons had been largely shorn of their tainted infantry traits. Correspondingly, their prowess at dismounted combat declined as mounted duties took increasing importance in the role of the dragoons.⁴²

The dragoons were therefore not mounted infantry in the classical European definition. Technically speaking, mounted rifles or infantry (depending on the kind of small arms carried) were hastily formed outfits customarily created due to a pressing local shortage of full-fledged cavalry units. Mounted infantry, as understood in the first half of the Nineteenth Century, were essentially ground pounders inelegantly perched on whatever horseflesh was readily available. Under no circumstances were jerryrigged outfits intended to mount a real, saber waving cavalry charge. Rather, as pointed out by Colonel J. Lucius Davis, "MOUNTED RIFLES differs from all other cavalry in arms, manoeuver and in habitually dismounting for the combat, their horses chiefly the means of rapid locomotion."43 Such formations were rarely, if ever, equipped with the proper regalia and accouterments of "real" cavalry. Instead, the mounted infantryman's equipage was standard issue for foot soldiers plus harness, saddle and perhaps a short sword.

Spurs, the earmark of a true horse soldier, were seldom if ever bestowed upon the lowly mounted infantryman. Mounted infantry proved especially useful in European colonies where imported horses did not fare as well due to local diseases and because the indigenous horsemen were only rarely organized along lines approximate to classical theory.

Finally, there was the light cavalry. In terms of the peerage of the European mounted services, these sportive and spunky lads were, in effect, the equivalent of the traditionally good-hearted but naughty younger sons of the aristocracy. Awash in splendor, overloaded with color and marked by a surfeit of cheek and temerity, these daring descendants of the cavalier tradition were generally not particularly effective in their designated role of harassment and reconnaissance. This was due to the recurring habit of such units, in peacetime, of bulking up, in terms of horse size, into the range of the heavy cavalry; the British Army was clearly the worst offenders in this regard. The very embodiment of aristocratic frivolity, the light cavalry were markedly different in spirit and appearance than the somber, stout oaks of the heavy cavalry, which were the personification, as it were, of respectability and order. The popularity of light cavalry was subject to recurring shifts of enthusiasm on the part of military leaders due the waning of combat experience following a war and the gradual reassertion of tradition as dominated in

peacetime cavalry planning. Battlefield experience tended clearly to show the ineffectiveness of heavy cavalry and in turn, suggested that the most profitable application of mounted units would lie in scouting, which was of course the suit of the light cavalry. Doctrine, in contrast, overwhelmingly rested on the side of tradition and of the <u>cuirassiers</u> and thus trumpeted the crucial role of cavalry as being the forceful and expert delivery of the charge.

Light cavalry units, however, possessed other than strictly military virtues. For one, they were socially attractive to the upper class, what with their largely patrician officers (it took considerable sums to maintain a stable of fine horses, a retinue of servants, a couple of closets of exquisite uniforms and to bear the heavy burden of monthly mess fees) and their lush finery and splendid pageantry. No better exponents could thus be found of the romantic style of military service in the first half of the Nineteenth Century. The light cavalry also afforded an excellent place to pigeonhole dimwitted sons of distinguished officers and the less mentally agile youth of the aristocracy.

The hussars and chasseurs, the species of light cavalry most frequently encountered in European armies, and functionally interchangeable in nature, were intended to perform the more venturesome duties of cavalry. Thus their forte was the collection of battlefield intelligence, escort and

patrol duty and to a lesser degree, the execution of the shift, dauntless raids on the enemy's flanks and rear. In addition, the light cavalry was also most regularly assigned the grinding and highly unpleasant task of providing local army security as pickets and vedettes. The romanticism of the light cavalry was well described by Mahan, himself supposedly a very practical engineer:

The dashing bold hussar, the epitome of military impudence and recklessness...should present these qualities in a sublimated form on the field. Regardless of fatigue and danger, his imagination should never present to itself an obstacle as insurmountable.

Furthermore, the light cavalryman should always attack his foe, "with a falcon's speed and glance upon his quarry, however it may seek to elude his blow, such be the hussar."44

Cavalry was traditionally defined as an intrinsically offensive tool of war, in that it "is always weak on the defensive."⁴⁵ Consequently, according to Major William Gelhorn, "a body of cavalry which waits to receive a charge of cavalry, or is exposed to a force of infantry, or artillery, must either retire, or be destroyed."⁴⁶ Since the "paramount purpose of cavalry is to attack," it was a fundamental maxim of cavalry tactical doctrine, as here stated by Roemer, to "always husband the strength of the horses and never expend more of it than is necessary for the object aimed at."⁴⁷ The charge of horse was not dissimilar to the one shot musket: once a round was discharged or a

cavalry attack launched, in order rapidly to reengage the enemy, a fresh line had to be brought up or new mounted units unleashed at the enemy. The thundering cavalry attack was, in effect, a race against unit disruption and exhaustion, particularly with the heavy cavalry. The longer the distance over which mounted units charged, the greater the fatigue of the animals and, in turn, the lower its combat effectiveness. Similarly, upon impact with the enemy's line or mounted units, the assaulting cavalry was rapidly broken up, with tight formations quickly replaced by small packets of troops engaged in what were basically, private duels with Thus, in the course of a battle, cavalry units their foes. could be realistically expended only a couple of times at best, before becoming effectively hors du combat. Moreover, while a cavalry attack or melee was customarily brief in duration, no more than half an hour at most, mounted units, unlike the infantry, required almost an entire day to reform themselves for further action. The type of terrain upon which a battle was fought controlled, to a very large extent, the deployment and application of cavalry theory; to use mounted units on imperfect ground was to cause the fragile yet mighty power of the horse soldier to be disrupted or even broken. "The horse's power...", according to L.V. Buckholtz, "... is effective only by rapidity, and therefore, motion is the true element of cavalry." Furthermore, "it is only offensive, and depends entirely on the

contours of the ground, it is invincible on level ground, but useless in broken...land."⁴⁸ It was this fundamental sense of risk and imperilment, embodied in the vertiginous nature of the charge itself, a gamble with the fates as it were, that gave cavalry its distinguishing characteristic for being audacious and undaunted in battle, qualities that had particular attraction to the aristocratic military elites of this era.⁴⁹

Cavalry-versus-cavalry engagement were thus, by definition, a higher sphere of battle than either cavalry versus infantry or artillery engagements. Such a clash of opposing cavalry was as much a duel as a battle. It was to a very great extent, a test of one's mettle as a horseman, of a unit's prowess and fortitude. Success, since "the advantage is always with the attacking party" counselled Captain Emric Szabad of the Italian Army, thus depended upon the execution of a near flawless charge.⁵⁰ Or as Roemer put it,

A charge is a rapid and impetuous onset of a body of cavalry upon the forces of a body of cavalry upon the forces of the enemy. To be useful, it is necessary that the horses be at their utmost speed at the moment of collision, and if arrived well aligned and in a compact body, the shock must... overthrow everything that happens to stand in their leap.⁵¹

Courage, impetuosity, verve and honor were tested to the limit in such an engagement. "Cavalry", according to Nolan, "seldom meet each other in a charge executed at speed; the one party generally turns before joining issue

with the enemy, and this often happens when the line is unbroken and no obstacles of any sort intervene."⁵² In regards to the broader tactical aspects of battle, cavalry was deemed in the post-Napoleonic era as a necessary adjunct to true victory.⁵³ Thus while infantry was the most flexible and cost-effective combat arm, the cavalry was, as stated by Halleck, "indispensible for beginning a battle, for completing a victory, and for reaping its full advantage by pursuing and destroying the beaten foe."⁵⁴

The moral superiority and intrinsically greater virtue of cavalry served to grant true nobility and honor to a victorious army. Of course infantry and artillery were acknowledged as capable of achieving great tactical success in the absence of cavalry yet to the early professional military leaders such victories were viewed as tainted by lack of true elan and mettle.⁵⁵ Moreover, the lack of pursuit afforded by mounted troops was seen as robbing the victor of long-term success, a point well stated by Roemer:

Battles have been won with little or no cavalry, but they have always proved sterile and without results. The enemy is repulsed, but not destroyed; and after a few days reappears in the field with undiminished numbers, and ready to renew the contest.⁵⁶ [Thus,] no victory is brilliant which is not followed up by cavalry, and no battle is really destructive which is not determined by them.⁵⁷

If the engineer was the most advanced and scientific type of officer in the Antebellum era, then, in terms of military professionalism, the officer of horse was the most

traditional in character.58 Or as Captain Nolan put it so ably:

With the cavalry officer almost everything depends on the clearness of his <u>coup</u> <u>d'oeil</u>, and the felicity with which he sizes the happy moment of action, and when once action is determined upon, the rapidity with which his intentions are carried into effect. There is little time for thought, <u>none</u> for hesitation; and once the movement is commenced, its successful accomplishment is the ([only]) thought allowed to pass through the mind of the commander.59

There was a virtual timelessness to many aspects of the leadership style of the cavalry officer. While separated by a hundred years and by many military advances and numerous battles, there was nonetheless a deep kindred spirit between brethren officers of horse, of the early Nineteenth Century and those of the early Twentieth. In contrast, the perceptions and style of officership of engineer or infantry commanders changed markedly. The cavalry remained, to a much greater extent, wedded to their pre-professional, warrior traditions.⁶⁰

The belief in the moral superiority of cavalry had its roots in the uniquely hazardous nature of mounted duty. "Infantry, or artillery in position may passively stand fire;" instructed Roemer, "to strike down his adversary, the horseman must close, and the chances are that he receives a blow in return for the one he deals."⁶¹ Yet, romanticism dominated the conceptualization of the characteristics of mounted warfare. There was clearly a higher social connotation associated with horse soldiers. In other words, horses and thus cavalry were the badge and the province of true societal elites; infantry, in sharp contrast, were representatives of the plodding, lethargic masses of the peasantry. The bond between rider and mount was esteemed as being a truly spiritual relationship, one connoting not merely higher social standing but also greater moral force. On a practical level, cavalrymen were trained to regard their mounts as merely another piece of equipment and hence, disposable. Yet virtually all cavalrymen would have endorsed the concept, articulated by Buckholtz, that "man and horse are a unity, the brute force submitted to the rational will,....62 The very essence of cavalry theory was that it was an art and not reducible to a science. Thus the nature of cavalry, quite unlike other aspects of war and the profession of arms, by definition, could not be translated into mere mechanized routine or subject to scientific experimentation. Expressions by military writers of the efficacy of cavalry were really statements of faith; of a deep, underlying, pre-professional commitment to traditional warrior values.⁶³ Naturally, therefore, since cavalry was defined by its advocates as a way, a path and a tradition, such spiritual growth, warrior prowess and expertise in horsemanship could not be readily taught or learned. Hence, reliance on militia or hastily organized and improvised cavalry units, save for the most elementary tasks was

defined as sheer folly, a point very forcibly stated by Roemer:

When we reflect that it requires threefold more time to teach a man to ride and have a perfect mastery of his horse than to teach a foot soldier his complete drill and that when the horse soldier is thus far instructed he has still a vast deal to learn before his education is complete, it becomes evident that the hurried augmentation of cavalry forces should be scrupulously avoided. A regiment of infantry may be speedily increased without greatly impairing its usefulness in the field, by incorporating a certain number of recruits, most of whom had probably served already in the militia; but a few half-drilled horsemen, a few unbroken horses, will throw a whole line into disorder, and mar every effort of the most able commander.64

This crucial rule of cavalry organization was fully supported by Secretary of War Lewis Cass:

Untrained men on untrained horses, form a combination of awkwardness that can ensure nothing but extravagance and disgrace.65

Cavalry warfare stood aloof from the post-Napoleonic surge of professionalism and military science. Yet as an elite military force, cavalry served as a living expression of the essential aristocratic, warrior values that ultimately were the bedrock of the new mathematic style of war. In time, however, while the other arms of service prospered from technological advances engendered by the Industrial Revolution, the cavalry withdrew behind the ramparts of tradition. The increasingly evident obsolescence of cavalry, due to enormous increases of firepower, were, in the main, countered by cavalry leaders with re-expressions of the past triumphs of Gustavus, Frederick and Napoleon. In effect, the cavalry was slowly becoming a prisoner of its myths and customs, refusing to accept the necessity of change. Yet this was not blind military stupidity, until perhaps late in the Nineteenth Century, when cavalry zealots began pushing for the successful revival of the lance in face of the growing adoption of the Maxim machine gun. In the first half of the Nineteenth Century, while the efficacy of horse soldiers was indeed dimming, the recognition of this fact, was by and large still many years away.⁶⁶

Chapter III

THE RE-EMERGENCE OF THE AMERICAN CAVALRY --FRONTIER SECURITY AND THE PROFESSIONAL ARMY

Part I

Cavalry, in the years prior to John C. Calhoun's tenure as Secretary of War, enjoyed only slight support from either the national political leadership or the Army's commanders. General George Washington, during the Revolutionary War, opposed the development of a large American cavalry arm. The objection, drawn from classical European cavalry theory, was based upon the less-than-ideal terrain of the eastern United States. The absence of broad expanses of flat, open country and the existence of dense woods, hilly terrain and thick swamps barred the widespread use of mounted troops. This basic rule became ingrained in United States tactical doctrine through the early years of the Civil War.¹ Two collateral arguments against political support for mounted forces were commonly raised: first, the significantly greater expenses of maintaining cavalry units, which were of lower tactical utility than infantry; and secondly, the traditional association of horse soldiers with aristocratic power. The first objection was unquestionably the more tangible of the two. Cavalry units were nearly twice as expensive to maintain as infantry formations of equivalent size.

Nonetheless, the pre-War of 1812 Army had occasionally experimented with the use of cavalry. The first post-Revolutionary war cavalry unit was a squadron (about two companies of one hundred and sixty or so officers and men) created by Congress in 1792. This small force was subsequently raised to full regimental strength. The legislative warrant for this unit expired in October, 1796, leaving the Army with only the original two cavalry companies. Indian unrest in the Old Northwest Territory occasioned the creation on July 16, 1798 of six additional companies, merged with the existing force into a single mounted regiment. Due to the needs of frontier security, Congress on March 2, 1799 authorized three regiments of light dragoons, but these units never reached their targeted strength. The first era in the history of the United States Army's cavalry forces ended on March 16, 1802 with Congress's passage of the Jefferson administration's Peace Bill. This legislation abolished all of the Army's cavalry units. Due to increasingly troublesome relations with Great Britain, Congress, on April 12, 1808, legislated a general expansion of the Army, including a new regiment of light dragoons. This unit, however, remained dismounted until the outbreak of hostilities in 1812, due to financial restraints. Four years later, on January 11, 1812, a second light dragoon regiment was created for duty against the British. "Having proved almost unserviceable in the several campaigns", according to Secretary of War Lewis Cass, "the dragoons were disbanded at the peace with little or no remonstrance from any quarter.² Thus, in March, 1815, Congress abolished the light dragoon regiments in conjunction with a general reduction of the Army. As before, the objections were tactical, fiscal and political in nature.³ As Secretary of War Lewis Cass put it:

Troops of the latter character ((i.e., cavalry)) have never done anything as yet... the greater portion of the country in the East is unfitted for its use in masses... there only small numbers would be needed....4

United States frontier security policy, particularly the role of the Army in the maintenance of order and Indian control underwent significant change during the Antebellum period. Prior to the War of 1812, as with most aspects of United States war policy, the precise mission of the Army as to the issue of frontier security was quite ill-defined. On occasion, as in the 1790's campaign by the Legion (the organizational precursor of the division) against the Indians of the Old Northwest Territory, the Army played the leading role in formulating and executing frontier security policy.⁵ In the main, however, prior to the War of 1812, the Army lacked a coherent mission in regards to the issue of policing the western and southern territories.⁶ After the War of 1812, however, the Army gradually assumed a

virtual monopoly of organized military power on the fron-Thus, with brief and rare exceptions, principally tier. during the Civil War years, the Army was gradually assigned the exclusive role of providing military protection to frontier settlers. The acceptance of such a responsibility, in contrast to the earlier mixture of militia and regular troops, was assumed reluctantly by the Army's leadership. To them the Army's mission, as a progressive, professional and French-Austrian military organization, was the defense of the nation against an invasion by a European power. Congress and, in the main, the President defined the immediate justification for the maintenance of a military establishment in ensuring the peace of the country's frontiers. Nonetheless, while unenthusiastic about being saddled with the duty of frontier security, the Army's leadership accepted this irksome, fatiguing and even dishonorable work as a kind of unofficial quid pro quo, a bargain as it were, between the Army and its civilian masters: the professionalization of the regular military service in exchange for the use of the Army in frontier security. In other words, the far greater fighting power and organizational effectiveness of the regulars, as compared to the militia, was accepted as essential for ensuring the successful pacification of the Indian, despite the resulting development of a strong professional Army. While this unofficial compact would be beat and challenged severely in the course of the recurring

and quite ferocious debate over the utility and even the legitimacy of the regular Army, it nonetheless survived more-or-less intact through the Civil War.⁷

Prior to the creation of the Civilian Indian Bureau in 1849, as a division of the Interior Department, the Army stood in the problematical role of being at once both the guardian of the Indian and the protector of frontier settlers. Such an ambiguous and potentially contradictory set of responsibilities would seem to have demanded carefully crafted policy guidelines for the frontier officer.⁸ Instead, officers were required to muddle along, protecting settlers, maintaining a semblance of order and all the while guarding the Indian from the designs of unscrupulous whites, particularly those engaged in the nefarious whiskey trade, with no clear guidelines. Or as Inspector General Edmund P. Gaines put it, with less than clarity, in 1821:

No specific instructions can be given to the commandants of frontier posts, to govern their intercourse with the Indians in their vicinity, so as to meet all the exigencies of the service. After receiving such general directions as the case admits they must be left to exercise a sound discretion, being careful to avoid all occasions of collisions and of involving the country in hostilities with them.⁹

Army frontier policy in the immediate post-War of 1812 years, during Jacob Brown's tenure as Commanding General, was essential and reactive in nature. The Army's field command structure was changed in 1821 from a North-South alignment to an East-West division of active combat forces. This realignment was made in order to improve the Army's ability to carry out the task of frontier policing. In tactical terms, the new policy emphasized the establishment of a line of forts and cantonments along the principal rivers of the Mississippi Valley as far south as present day Arkansas and Louisiana and as far north as Minnesota. Water transport, via flatboat and more-or-less portable water craft served as the principal linkage between individual garrisons and frontier settlements. Essentially, there was the establishment of a firebreak between the white settlers and the western The problems with this wholly defensive approach Indians. to frontier security were numerous and substantial. Minuscule packets of infantrymen scattered over several thousand square miles, were simply too few in number and too widely scattered to be more than locally effective. A closely related problem was the inherent lack of mobility of the Water transport into the Indian country was regulars. usable only so long as the river systems remained navigable. The frontier Army, bereft of mobility and speed of movement on land, was incapable, with rare exceptions such as the 1819-1820 Yellowstone campaign against the Arikara and Sioux Indians, of mounting effective retaliatory strikes against marauders. A still larger failing of this static defensive scheme lay in the very nature of frontier settlement. The idea was to create a barrier between the Indians to the west of the Mississippi River network and the settlers to the

east. Moreover, eastern Indians would be forcibly resettled onto the western plains creating, as it were, a <u>cordon</u> <u>sanitaire</u> to further guard against attacks. In reality, the plan never succeeded. As soon as an Army post was established, traders and then pioneers would aggressively move beyond the effective range of the infantry garrison, fifty miles or so. During the 1830s a far more active and mobile frontier defense policy emerged during the tenure of Alexander Macomb and later, Winfield Scott as Commanding General of the Army. The primary hitch in implementing a more effective policy lay in overcoming Congressional opposition to the enlargement of the Army in general and in the creation of a cavalry force in particular.¹⁰

Notwithstanding the political and military objections to equipping the Army with a mounted component, demands for a cavalry force began to rumble eastward from the West from the 1820s on. One major source of political pressure for the establishment of a mounted unit stemmed from the growing Santa Fe Trail trade. Starting in 1823, the Missouri caravans for the first few years managed to complete their expe-The caravans of ditions without any Indian interference. 1825 and 1826, however, were both attacked by increasingly belligerent groups of Comanche and Kiowa Indians. In the main, such attacks were little more than nuisances. The merchant caravans, with over a hundred armed men and equipped with even small brass cannon, were quite formidable

as an armed force in their own right.¹¹ And, on the Mexican side of the border, the undermanned and poorly equipped light cavalry or <u>pictadores</u>, nonetheless provided a limited military force to cover the most dangerous leg of the journey.¹²

Many merchants involved in this commerce were either unenthusiastic or even hostile toward the idea of American Army escorts. However, such voices were a minority among the influential St. Louis merchants engaged in the Santa Fe Ironically, the leading (and by far the most powertrade. ful) advocate for Army escorts, was Missouri Senator Thomas Hart Benton, the leader of Congressional opposition to the professional army.¹³ The sharpness of one member of the expedition, generated sufficient political pressure to compel the Army to provide an escort. In 1829 such an escort was provided, on an experimental basis, consisting of a detachment of foot soldiers from the Third Infantry Regiment commanded by an experienced Indian fighter, Major Bennett The fleet Indian tribes of the Southwest plains, Riley. such as the Navaho, Kiowa and Comanche, were undaunted by the presence of American troops. The infantry, "walk-aheaps" to use the derogatory Cheyenne term, proved wholly ineffectual as a deterrent to the frequent hit-and-run raids on the caravan. What was so discouraging to the officers in command of the protective guard was their lack of mobility. As Major Riley put it with a deep sense of frustration:

Think what our feelings must have been to see the [Indians] carry off our cattle and horses, when if we had been mounted, we could have beaten them to pieces, but we were obliged to content ourselves with whipping them from our camp. We did not see any of them killed or wounded but we saw the next day where they had dragged them off. They have said sense ((sic.)) that our fire from the big gun ((i.e., a six-pounder cannon)) killed five or six.14

A similar sense of resignation at his inability to mount an aggressive pursuit was recalled by Major-General Philip St. George Cooke, then a second lieutenant and later, one of the leading Army cavalry experts in the pre-Civil War years:

It was a humiliating condition to be surrounded by these rasically ((sic.)) Indians, who, by means of their horses, could tantalize us with hopes of battle, and elude our efforts; who would insult us with impunity, much did we regret that we were not mounted too. 15

No further effort was made to provide an Army escort on the Santa Fe Trail until 1833.¹⁶ Field performance clearly demonstrated the lack of tactical effectiveness of relatively immobile foot soldiers against the fleet Indians of the West. The result of such an ignoble performance of arms was even louder calls by Western politicians for enhanced military protection in the form of cavalry units.¹⁷ Leading the growing chorus of support for such units were such traditional opponents of a large standing army and military professionalism as Senator Benton and Secretary of War Cass, of the Jackson administration. Joseph Duncan, a Congressman from Illinois, on March 25, 1828, wrote to Major-General Edmund P. Gaines, arguing for the formation of mounted units composed of "young men of vigor and enterprise, reared in the western country, acquainted with the Indian artifice and their mode of warfare, full of pride and patriotic spirit."¹⁸ Such units, embodying the full spirit of opposition to the regular Army, were claimed not only to be a more formidable threat to the Indians, but also far more responsive to the needs of Western pioneers.

By 1829 reports of difficulties with frontier security as then provided by small packets of relatively ponderous infantry manning static garrisons began to filter back east to an ever more receptive War Department. In April, 1830, Quartermaster-General Thomas S. Jessup, in a formal position paper, signaled the growing enthusiasm for the resurrection The problem, however, was the fear that a of a mounted arm. penny-pinching Congress would simply order one or more existing infantry regiments to be converted into cavalry units. Such a course of action would in no way address the critical lack of numbers of the Regular Army, increasingly burdened by the demands of frontier security. Moreover, infantry units, manned according to the tenets of limited war doctrine, were composed of the dregs and sweepings of society, hardly the kind of personnel required for what would be, according to European practice, an elite forma-Thus, as Jessup pointed out, there did in fact exist tion. a paramount need for regular Army mounted units:

104

As well you might leave the defense of our maritime frontiers and the protection of our foreign commerce to the artillery stationed on our The means of pursuing rapidly and seaboard. punishing promptly those who oppress whether on the ocean or on the land are indispensable to a complete security, and if ships-of-war are required in one case, a mounted force is equally so in the other. Were we without a navy, pirates might operate with entire impunity, not only on the high seas, but in our very harbors, and within view of our forts. So, without a mounted force on the frontier south of the Missouri, the Indian confident in the capacity of his horses to bear him beyond the reach of pursuit, despises our power, chooses his point of attack, and often commits the outrages to which he is prompted by either a spirit of revenge or love of plunder in the immediate vicinity of our troops, and the impunity of the first act invariably leads to new oppression.19

The Black Hawk War of 1832 constituted the first significant military problem faced by the Army following the War The suppression of the Sac and Fox Indians and of 1812. their allies, demonstrated the need for a reasonably large and professional military force. The state and territorial militia units, in the main, proved ineffectual as military Troops broke and ran, were far less than diligent forces. in the pursuit of their duties and of course, were far less proficient than the regulars in the performance of tactical operations and in maintaining discipline. Still another major problem was the constant wrangling and less than fully cooperative behavior of many state, territorial and local politicians; General Henry Atkinson, in overall command, labored mightily to employ his militia troops, in conjunction with handfuls of regulars, to bring Black Hawk's warriors under control.²⁰ The lack of sufficient numbers of regular troops and the resulting dependence upon militia forces, which prolonged hostilities and in turn heightened the cost to civil society, again, demonstrated to professional officers the clear need for an overall increase in Army strength. Thus the Army's leadership, in accordance with limited war doctrine, strongly questioned the wisdom of relying on ineffectual militia forces, the absence of which from the civil economy was costly and exceedingly wasteful.²¹

The Black Hawk War also demonstrated the need for a new Army mounted arm. The regular infantry were simply not fleet enough to pursue their adversaries; the Army was correspondingly dependent upon the availability of militia mounted infantry units to form the chase element in the order of battle. And as an Army officer put it, with a fair degree of frustration:

The war of last summer showed very clearly the impossibility of succeeding against the Indians with infantry alone. March after march was made by the regular troops without coming in contact with the enemy and it was only after many forced marches of the most harassing description that he was finally overtaken and brought to an engagement.²²

Limited funds were scraped together to mount a few companies of regulars as mounted infantry, but this improvised technique was not satisfactory. One of Atkinson's major complaints to Commanding-General Alexander Macomb was exactly this lack of mobility of his regular forces: As the Regular troops had no means of transportation by land and our supply of provisions and munitions required protection; and feeling unwilling to leave my base of operations I fell back with the regulars to this place to act as circumstances might require; besides none but a mounted force could come up with the Indians, unless they made a stand to contest the point of superiority, which was not expected.²³

Heeding the wishes of his field commanders, President Andrew Jackson openly pushed for the re-establishment of an Army mounted force as a result of the tactical experience of the Black Hawk War. Congress, however, quite unlike Calhoun's days as Secretary of War, was now dominant in the determination of a national war policy. While it was increasingly evident that a cavalry force was needed, there was no consensus whatsoever in Congress as to the form such a unit should take. Congressman William Drayton of South Carolina expressed the recognition of Congress that the issue of cavalry forces for frontier security was indeed a pressing one:

It would have been a vain attempt to pursue the Indians who committed these outrages, for they were all mounted on fleet horses, while the troops of the United States consisted of infantry alone, and they were therefore compelled to endure all the insults and injuries so sure to arise from Indian hostility.²⁴

The 1832 Congressional debate on the formation of a cavalry arm reflected the broader debate over the standing army. The distinctly minority position in the House of Representatives favored establishing formal cavalry units as a full branch of the regular. As articulated by such Congressmen as Dutee J. Pierce of Rhode Island and interestingly enough, former advocate of volunteer mounted forces, Duncan of Illinois, their position was expressly founded upon professional Army doctrine.²⁵ The majority perspective, to the contrary, was seething with opposition to professional military forces of whatever stripe. The regulars, as pointedly stated by Congressman John Carr of Indiana, were simply incapable of manning and operating any form of mounted force:

There was not... twenty of them ([i.e., regular Army troops]) who could ride a horse fifty yards, and if the Government should furnish them with horses, they knew nothing about taking care of them, and would destroy just as many horses as were put under their management.²⁶

Secondly, aside from the supposed lack of horsemanship of the regular Army, Congressional objections centered upon the very character and physical condition of line troops. Thus as the delegate from the Arkansas Territory, Ambroshe H. Sevier, critically noted:

What were the garrison troops? They consisted generally of the refuse of society, collected in the cities and seaport towns; many of them broken down with years and infirmities; none of them use to rid [(sic.]) nor in anywise fit for the service to be assigned them.²⁷

Finally, as passionately stated by Representative George Grennell of Massachusetts, the volunteer soldier, drawn from the environs of the frontier, would possess virtues and skills which would render him vastly more effective as an Indian fighter: Frontier volunteer soldiers would "counter wile with wile, and frustrate one stratagem by another, and loss ((sic.)) upon those savage men their own schemes of surprise and blood."

Moreover, the frontiersmen-soldier would be intrinsically loyal; thus, unlike the scurvy lot of the regular army, such noble men could not be corrupted into following the trumpet call of some would-be Napoleon:

There was no danger that these farmers would become... ((tempted to join)) the flying corps... [by] a summer's term of duty in defense of their farms and their firesides.²⁸

On June 10, 1832 Congress authorized the establishment of a battalion of mounted rangers, signaling the victory against the regular Army. The rangers, numbering some six hundred officers and men and organized into six companies, was clearly not an orthodox, professional military outfit. Rather they constituted a unique federalized species of volunteer unit; the men were subject only to a single year of service and were expected to arm and equip themselves.²⁹ The problem was that this unit, expressly unprofessional in character, was certainly not the cavalry force sought by the Army's leadership. This rough-hewed, highly undisciplined assemblage, which saw no action against the Indians, was simply too irregular an outfit to be freely accepted into the professional ranks of the Army. This short-lived experiment, unsuccessful and impractical, succeeded, ironically, in providing the advocates of a regular mounted service with the evidence necessary to prevail in Congress. Support for converting the mounted ranger battalion into a proper cavalry unit came from all quarters responsible for developing and implementing war policy in the Antebellum era. Captain Cooke, expressing the verdict of professional officers, curtly rejected the battalion as a military unit, with even less prowess in arms than some of the volunteer and militia units field in the Black Hawk War:

Of this corps (in justice not so formidable to its <u>friends</u> ((in Congress)) as a certain brigade of Illinois volunteers of notorious memory),... none more readily than myself would presume its <u>requiescat</u> in pace.³⁰

Similarly, Secretary of War Cass, reflecting a major shift in the war policy of the Jackson administration argued strongly for the creation of a full-fledged regular cavalry force, using of all things, the very rhetoric of military professionalism that he had so long been opposed:

Besides other important objects, it is desirable to preserve in our military system the elements of cavalry tactics and to keep pace with the improvements in them by other nations. The establishment of a regiment of dragoons would complete the <u>personnel</u> of our army, and would introduce a force which would harmonize with and participate in the <u>esprit du corps</u> so essential to military efficiency, and so easily... created by military principles.³¹

Congress as well moved to support the establishment of a regular Army cavalry service, following the complete failure of its non-professional mounted ranger battalion. The development of the new regiment of dragoons was spearheaded by Congressman Richard M. Johnson. Chairman of the House Committee on Military Affairs and interestingly, a renowned former Captain of the Kentucky Volunteer Mounted Rifles. Johnson succinctly listed the numerous failings of the battalion of mounted rangers when he wrote:

...the organization of the present battalion of mounted rangers... does appear to the committee to be very defective. It must be evident from the constitution of the corps of rangers, and from the short period of their service, their efficiency will be but little superior to that of the ordinary militia -- every year there must be loss of time in organizing and recruiting the corps and the acquisition of the necessary experience and knowledge, besides it cannot be expected that their equipment and horses will be equal to those furnished by the public.³²

Congress, therefore, on March 2, 1833, passed an "Act for the more perfect defense of the frontiers," converting the battalion of mounted rangers into the (First) Regiment of Dragoons.33 The creation of the Regiment of Dragoons established a precedent for other pre-Civil War mounted Essentially jerry-judged, with no organic ties to units. any tradition of mounted warfare, these units fell completely outside of table of organization and division of functions established for European cavalry regiments. At this stage in American military affairs, Congress was dominant in the development of national war policy. Consequently, the dragoons were largely a reflection of Congress's limited expertise in the mechanics of cavalry organization. Input from the Army's leadership was indirect and fragmentary. Congressmen Johnson, principally responsible for the final form of the dragoons, detailed the intended functions and duties of the Army's new horse soldiers:

Regular dragoons, it is believed, are fully competent to discharge all the duties that can be required of mounted rangers.... In celerity of movement they will of course be equal, and as it is the duty of dragoons to serve on horse and foot, they may be trained to the use of the rifle and the sword as occasion may require.³⁴

The dragoons could not, in any formal sense, be regarded as an American importation of European cavalry doctrine. Representative Johnson spoke of the ability of the dragoons to fight both mounted and dismounted. The formal, European definition of "dragoon" bears at best, a slight resemblance to the American form of this type of unit. As one European military dictionary put it, in 1745, dragoons were:

...mounted, who serve sometimes on Foot, and sometimes on Horseback; being always ready upon any thing that requires expedition, as being able to keep pace with the Horse, and do the service of Foot. 35

Thus, by definition, dragoons were expected to fight when necessary, on foot. However, unlike infantry, which usually fought in tight disciplined formations, dragoons' customary tactical deployment was in skirmisher order. This loose and even stylized formation was designed to allow the dragoons to do no more than simply harass enemy units with carbine fire. In other words, when dismounted, the European-style dragoons would form a long, loose line, one rank deep, and then, by the specified steps of the Skirmish drill, proceed to lay down, on the enemy's infantry and artillery, several volleys of harassing fire. Dragoons had gradually mutated into a generally orthodox cavalry formation; consequently, their earlier infantry attributes had either become largely vestigial or were shorn completely. Therefore, they generally fought as still another mounted unit, albeit with the carbine as well as sword and pistol.³⁶

What, therefore, was intended by designating the first post-War of 1812 cavalry as "dragoons"? They were certainly not intended to serve as "light cavalry", as hussars or chaussures. While the appellation of light cavalry has been commonly applied by later writers to describe the true character of the American dragoons, it is, misleading.37 Being capable of fighting on foot as true light infantry, exploiting the terrain for concealment and cover, the Regiment of Dragoons had considerably more tactical flexibility than the European hussars, which were intended to fight exclusively on horseback and to perform scouting and raiding duties, or the European style dragoon. 38 Nor were the Regiment of Dragoons mounted rifles, in that they lacked infantry weapons and were thoroughly trained to fight while on horseback. What lay behind Congress's establishment of a dragoon-like cavalry unit was two-fold: first, of less importance, was the fact that pre-War of 1812 units had borne a similar designation; and secondly and more importantly, was the fact that of all the orthodox types of mounted units, the dragoons were those which most approximately fitted the requirements of the frontier. Congressman Johnson had been a highly successful exponent of the Kentucky style of mounted volunteer rifles, which had performed with considerable effectiveness against both Indians and the British.³⁹ This experience was probably most important in determining the rough organizational make-up of the Regiment of Dragoons. The American dragoon regiment was thus a unique admixture of European dragoon, light cavalry, mounted rifle and light infantry principles, plus a liberal dash of the mounted volunteer experience of one highly influential Congressman, the by-product of political expediency and military necessity and not the creation of any conventional manual of cavalry organization.⁴⁰

Part II

The establishment of the Regiment of Dragoons, regardless of its lack of formal ties to the classical European cavalry tradition, was, nonetheless, a telling, if temporary, victory for the advocates of the professional army. In what amounted to direct competition, the volunteer ranger concept had failed as an alternative to the use of mounted regulars in providing frontier security. However, as a much broader consequence of the Black Hawk War, the Army, contrary to its self-defined, professional mission of preparing to meet an invasion by a major European power, was hereafter saddled with the primary responsibility of providing organized protection against Indian incursions.

The dragoons were a variety of cavalry, more or less, and thus the Army's leadership, in a manner unanticipated by Congress, determined to mold them into the shape of an orthodox mounted unit, at least in regards to tactics and Structurally, the organization of the dragoons equipment. was that of an American infantry regiment. Therefore, the Regiments of Dragoons possessed ten companies instead of troops, with battalions instead of squadrons as the next smaller unit below the regimental level. The regimental commander, for the interim period of unit organization, was the mounted rangers' senior officer, Colonel Henry Dodge. Prior to his service in the United State Army, Dodge had earned a reputation as an efficient volunteer officer in the War of 1812. During the Black Hawk War, Dodge distinguished himself as a colonel in the Michigan Territorial Mounted Militia, by winning the last and very decisive victory over the Sac and Fox Indians. Since Dodge was not a professional Army officer and desired early retirement to enter civil politics, real leadership of the dragoons fell to Lieutenant-Colonel Stephen Watts Kearny, formerly of the Third Infantry. Principally for political reasons, six of the former officers of the mounted rangers were accepted for service with the dragoons. This decision occasioned a fair degree of resentment among regular army officers, who saw it as "an absolute infringement of their implied rights" and which in turn, reduced the number of new slots on the very slow promotion list.⁴¹ All other officers were either recent West Point graduates, trapped in the limbo of brevet second-lieutenant status awaiting an opening in the career lists, or seconded from existing infantry units.⁴²

The dragoons were at once reconstituted into an elite regiment, not dissimilar from the British Guards. Because of the higher worth of mounted units in the hierarchy of traditional, aristocratic warrior values, despite being at the bottom of the career list in the ranking of the different categories of Army officers, the dragoons offered a higher degree of social status and prestige.⁴³ The romantic character of the dragoons was sprightly presented in the barracks song (or, in military slang, "Jody"), "The Bold Dragoon", of the later Second Regiment of Dragoons (who were tagged the "sons of Bacchus", for their supposed off duty revelries):

Oh: the dragoon bold! he scorns all care as he goes Rounds with uncapped hair reverends no thought on the Civil star that sent him away to the border war.⁴⁴

The composition of the rank-and-file of the dragoons was to be very different from any other Army regiment. In accordance with limited war doctrine, the rank-and-file were usually filled out with the refuse and sweepings of society; according to Frederick Marryat, a British traveler:

116

The privates of the American regular army are not the most creditable soldiers in the world; they are chiefly composed of Irish emigrants; Germans, and deserters from the English regiments in Canada. Americans are very rare; only those who can find nothing else to do, and have to choose between enlistment and starvation, will enlist in the American army.⁴⁵

While such men "were necessarily inferior as material to the ... volunteers enlisted ... expressly to fight ..., " recalled General Ulysses S. Grant, the value of such soldiers, to a professional army, one expressly founded on the limited war traditions of the French-Austrian school, was considerably greater than the eagerest of volunteers.46 Such men were by nature of little use to civil society, hence the cost to the nation of manning a military establishment was correspondingly lessened. Moreover, such men, particularly the immigrants and British deserters (prized by Army officers for their high level of training and discipline),47 lacking any ties to the larger society, were thus dependent on the military for succor. In turn, they could be subject to far more stringent discipline than would have been tolerated by citizen soldiers. In its recruitment policies, the United States Army therefore continued to follow the principles of limited war doctrine, in the Frederickian tradition.

The dragoons, however, were to be organized quite differently from all other Army units. The rank-and-file were intentionally recruited from every state in the union; the manpower was to be distinctly American in character, as opposed to the usual offscourings of society dredged up by the Army's recruiters, and the unit's spirit, that of highly This was not, most assuredly, and motivated volunteers. abandonment of one of the central tenets of limited war This style of recruiting was the norm in most doctrine. European elite units and the reliance on one's own nationals was increasingly common over the course of the Nineteenth Century as the demands for labor grew with the development of the Industrial Revolution.48 The recruitment for the dragoons was enormously facilitated by the fact that the unit was cavalry and by the lure of western adventure. As then Lieutenant Cooke pointed out, a recruiting expedition to Tennessee was a wholly successful undertaking:

Early in the summer of 1833, I was among the hardy sons of West Tennessee seeking to infuse an ardor for service in a wide regiment of cavalry, one destined, we believed, to explore far and wide the western territory, and bear the arms of the Union into the country of many Indian tribes. It was a prospect that did not fail to excite the enterprising and roving disposition of many fine young men, in that military state.⁴⁹

The army's haul from their recruiting efforts was, according to one of those enthusiastic Dragoon recruits, James Hildreth, composed of "young men... which in point of talent, appearance and respectability, perhaps never were... surpassed in the history of military affairs."⁵⁰ The high quality of the recruits and their boisterous spirit occasioned a fair degree of press attention. The <u>Albany Daily</u>

118

Advertiser, for example, commented quite favorably on the unusually high quality of the new cavalrymen:

...a particular fine body of men being selected with the greatest care--not only as to thews and sinews, and horsemanship, but as to their moral qualifications, and their general adaptation for a service requiring an unusual degree of skill, courage, coolness, and power of endurance.51

In part, the strategy of presenting the dragoons as an elite unit was no more than a recruiting ploy. Certainly the artful blandishments and sales puffing of the recruiters exploited fully this sense of superiority of the dragoons as an Army unit. According to Hildreth, such advertising methods were necessary because "so superior a band of young men could not have been induced to enlist themselves as common soldiers... where the very fact of a man's being a soldier seems to imply that he is fit for no other employment."52 On a deeper level, however, the deliberate recruitment of Americans rather than immigrants was representative of the same spirit of military professionalism as the Army's devotion to the French-Austrian school of war. In effect, the Regiment of Dragoons created an elite, pan-nationalistic unit: a physical representation of the central political tenet of the French-Austrian school of war that a country's army was to stand separate-and-apart from civil society, as a guardian of order and tradition.53

There were substantial problems associated with the establishment of the dragoons as an active Army unit. First

and most critical was the simple fact that the Army had few if any regular officers with cavalry experience. Due to the passage of some eighteen years since the disbandment of the light dragoons, the Army had to start anew with the creation of a cavalry establishment.⁵⁴ As one of the harried officers (some in Congress were pressing for an early termination of the dragoons if they did not take the field with dispatch), Cooke elaborated on the numerous difficulties facing the new unit's commanders:

These persons who may at times have felt symptoms of envy at the fortunes of officers preferred to new regiments, might console themselves if they could but realize the amount of labor, care, and vexations attendant upon the task of enlisting, organizing, disciplining, and instructing a new corps, of producing order from chaos (and much the more cavalry) where the amount of duty, instruction, and responsibility may safely be considered double in comparison with the And this, without consideration of the infantry. extra-ordinary fact, that cavalry tactics were unknown in the army, and with the whole theory and practical detail, were to be studiously acquired in manner invented- by officers, before they could teach others.55

Much of what Cooke complained could be traced to the fiscal restraints imposed by Congress. "The most egregious oversight on the part of Congress," according to Hildreth, was "...in not providing proper instruction in horsemanship and dragoon tactics...."⁵⁶ The result of this combination of inadequate funding and planning with Congressional pressure for quick deployment of the regiment was forcefully pointed out by western traveller Charles Fenno Hoffman: The omission of providing riding masters and a school of practice for both horse and men is a defect that all the care and exertions of the accomplished and energetic officers of the corps can hardly remedy.

The omission of the necessary provisions in the bill reported by Congress and the dispersion of the regiment on the frontier as each company is recruited... forbids an approach to such a state of discipline. The three new companies here ((e.g., Fort Gibson, in what is present day Kansas)) are nearly perfect in the light infantry drill, which enters largely into the maneuver of dragoons, but the exactness of their movement when mounted varies with the skill of each individual horseman.⁵⁷

The clear thrust of Colonel Dodge's exacting training regimen was to create a high quality, European-style cavalry unit. The difficulty was in translating foreign drill manuals into everyday practice for the officers and men of the dragoons. "Everything was new to them," recalled then Lieutenant Philip Kearny, nephew of the regiment's Lieutenant-Colonel Stephen Kearny. "The cavalry regulations for the maneuvers were taken from the French, almost literally translated."58 The difficulties of trying to train men, when the officers and non-commissioned officers were virtually ignorant of cavalry tactics and with only three or four copies of an obsolete French manual to guide them, is illustrated by how the intricate saber dance or drill was taught. At night, the officers were drilled as if they were back on the parade field at the Point; the following morning, the sergeants and corporals were put through their paces and, in turn, tried to instruct the men in this very difficult weapon. Moreover, there were no qualified riding masters to oversee the training in horsemanship; only in 1837 was a cavalry school established at Carlisle Barracks, Pennsylvania.⁵⁹

The Regiment of Dragoons, at least for parade drill purposes and in the eyes of western travelers inexperienced in the military arts, was quickly assuming the appearance of a disciplined and polished unit. "They were," as Edmund Flagg wrote, "all Americans, resolute looking fellows enough ... " and apparently ready for the rigors of frontier patrol duty.⁶⁰ What caught the eye of most observers was the supposedly higher level of individual motivation and the "ethnically pure" character of the men. Charles Joseph Latrode commenting favorably on the new regiment, stated that "the recruits for the service of the newly-raised regiment of Dragoons organizing for the future service of the frontier in place of the Rangers... were distinguished from the rag-tag-and-bob-tail herd drafted in to the ranks of the regular army by being for the most part, (["all Americans"]) athletic young men of decent character and breeding."61 In reality, the unit was seething with discontent and plagued by such high rates of desertion (as many as one hundred by October, 1833) as to seriously undermine the process of unit formation. The chief cause of this deep dissatisfaction among the men was the unexpected reality of the unpleasant conditions of frontier service. Upon the unit's initial

posting to Jefferson Barracks, St. Louis, the first four companies that had been organized were required to act as common laborers in erecting barracks and stables for the regiment. Such mundane labors contrasted quite unfavorable with the recruiting officer's hyperbole regarding the supposed ease of service in an elite cavalry regiment.⁶²

In 1834 the First Dragoons, for the first and only time prior to the Civil War, went into the field at something approaching full strength. Overall command of the expedition was vested in Brigadier-General Henry Leavenworth, then in charge of Fort Gibson and the Western Division of the United States Army.⁶³ The purpose of this campaign was to present a show of force so as to overawe the Plains Indians, particularly the recalcitrant Pawnee, Kiowa and Comanche, into respecting the rights and interests of Santa Fe Trail merchants, Arkansas Territory settlers and recently relocated Eastern Indians. A second and perhaps crucial purpose of the expedition was to prepare the war for the forced resettlement of the Southeast Indians onto the Plains. The original May date for launching the expedition was canceled due to difficulties in completing the formation and initial training of the regiment. Only in early June was the regiment's second battalion fully formed; the last three companies arrived only three days before the departure of the expedition. On June 15, 1834, approximately five hundred officers, men, Indian scouts and assorted civilians embarked

on this ill-fated campaign. The primary failing was a dangerous combination of ignorance and bravado. Virtually to a man, the Dragoons were wholly incognizant of the dangers associated with travel on the Great Plains, particularly by such a relatively large force. The campaign set out in June, during a year of exceptionally high temperatures, when potable water and forage were at their scarcest. Furthermore, the formation of the dragoons as a combat unit was nowhere complete. Not only was over half of the regiment either in transit to Fort Gibson or still in training, there had been no time for the assemblage to coalesce into an effective military force. Consequently, the poor performance of the regiment could be attributed to lack of organization and planning; or as Hildreth commented, "with but about six months training, and that under officers who know less of the maneuvers of a cavalry corps, than some of the dragoons themselves."64 Accompanying this expedition was noted artist and western chronicler George Catlin, then engaged in gathering information for his major work on North American Indian tribes. Catlin succinctly diagnosed the causes of the expedition's problems when he wrote:

In the first place, from the great difficulty of organizing and equipping, these troops are starting too late in the season for their summer's campaign by two months. The journey which they will have to perform is a very long one, and although the first part of it will be picturesque and pleasing, the after part of it will be tiresome and fatiguing in the extreme. As they advance into the West, the grass (and consequently the game) will be gradually diminishing, and water in many parts of the country will not be found. 65

The expedition ended in disaster. Catlin authored a haunting assessment of the progress of the campaign in midcourse: "of the 450 [actually, five hundred plus] fine fellows who started from this place [Fort Gibson] four months since, about one third have already died, and I believe many more... will yet fall victim to the deadly diseases contracted in that fatal country."⁶⁶ Some sense of the sever hardships and privations which befell the dragoons is afforded by the journal of First-Lieutenant Thomas B. Wheelock:

August 8. Marched at eight o'clock. Halted at three o'clock; distance eighteen miles; course east by south. Exceedingly warm day. Stubborn thickets. Crossed and encamped in the bottom of Little River; shallow stream, narrow bed, miry shores. No water from morning till the halt for the night. Passed many creeks the beds of which were entirely dry. Our Horses looked up and down their parched surfaces and the men gazed in vain at the willows ahead, which proved only to mark where water had been. The timber is larger here.... No longer any trace of the buffalo. Sick report numbers thirty men and three officers.⁶⁷

The result of this folly was to put the regiment out of action for some four months as an effective military unit with the loss of over one hundred troopers and officers, including General Leavenworth, as well as a third of its mounts. Nonetheless, there were very important and valuable gains recorded by the Army's first major campaign on the Great Plains. First, it served to establish the basis for subsequent intercourse between the United States government

and the assorted Indian tribes of the Great Plains. Secondly, it served as vast classroom in which the Army was tutored, although quite harshly, in the skills essential to the effective operation of military forces on the Great Plains.⁶⁸ Such was the speed of the Army in mastering these lessons, a point too easily obscured by the misfortunes of the Leavenworth-Dodge expedition, that within a year's time, the dragoons could easily mount reconnaissance and diplomatic forays of well over a thousand miles without incident. For example, on June 7, 1835, Lieutenant-Colonel Kearney began a highly successful expedition into the Iowa Territory, a journey of some one thousand miles, with B, H and I Companies. This force returned to base on August 19, 1835, without the loss of a single man or horse; or as the anonymous chronicler of this expedition put it, in words wholly different than those penned for the Leavenworth-Dodge mission: "Come 20 miles to the Fort ((Gibson)). Arrived there about 2 P.M. having been absent almost 3 months. Sickness and disease has been a stranger to the camp and all have emerged in good spirits... upon the whole I convey we have had a pleasant campaign."69

Part III

The Second Seminole War, 1835-1843, was perhaps the Army's "dirtiest" war of the Nineteenth Century. It substantially influenced the development of military profes-

sionalism in the officer corps. Indirectly, as well, it led to the creation of the Antebellum Army's second cavalry regiment. It was a war of shadows, of small patrols struggling through the inhospitable mire of the Florida Everglades hunting and in turn being hunted by the Seminoles, Creeks and their black allies, of ambuscades and reprisals. It was as well a second major test of the professional American Army in the post-War of 1812 era. The severe trials occasioned by this war stemmed as much from the numerous difficulties of jungle warfare, as from the confusion and disarray at the highest levels of the nation's war policy decision process. Ceaseless political pressure from Washington on the Army for a swift resolution of hostilities in conjunction with the failure of Congress to legislate adequate military resources to accomplish this task, served to derail any coherent and effective tactical solutions. The reasons for the Army's eventual success were principally ones of exhaustion and attrition of their enemies coupled with the painfully slow development of effective jungle war techniques. Seven senior officers and seven different tactical schemes were hastily devised and then just as hastily aborted due to the ever-louder chorus for an end to hostilities by Congress. The thoroughly European American Army was unsuited by organization, equipment and tactical doctrine, for the challenges posed by the unorthodox guerilla-style warfare. It took several years to devise effective combined Army-Navy operations; lack of cooperation between these two services was as much a lack of tactical theory and practice in joint small-unit operations as it was one of politics. The lessons learned by the Army's leadership were not, however, those of flexibility and innovation in military doctrine. Instead, as in the earlier Black Hawk War, this protracted campaign served as a vindication of the essential correctness of the Army's post-War of 1812 decision to realign itself on the French-Austrian school of war. Thus, as before, effective military action had been crippled, vast resources of men and money squandered and lives lost due to the interference and lack of fiscal support of politicians in both the executive and legislative branches. There was as well the usual lack of cooperation of state, territorial and local officials; the customary lack of militia effectiveness as combat troops; and the persistent lack of adequate numbers of men, equipment and funds. 70

For eight long years, under the most oppressive and difficult of conditions, the Army labored in its thankless and ignoble job of suppressing the Seminole and Creek Indians. The terrain of the Florida Everglades presented exceptionally inhospitable country for the operation of conventional troops. The men were plagued by the heat, the swamps, disease, alligators and the hard biting "tiny sandflies popularly called 'noseeums'."⁷¹ The difficulties of campaigning in the Everglades were catalogued with a good deal of anguish by Assistant Adjutant-General J. A. Chambers:

The troops have endured every hardship and privation, they had ((been)) exposed to the drenching rains, noxious vapors, and the scorching sun of an almost torrid climate; they had waded rivers, made long marches over burning sands, traversed almost impassable swamps, and sought the enemy in fastness such, as American soldiers had seldom penetrated before, and with a perseverance and energy, and a courage, worthy of the best era of the republic.⁷²

The Army's travails in the Florida mires and glades presented yet another example of an orthodox European-style army struggling to overcome an adversary that refused to fight by the standards of civilized warfare and on terrain that was inhospitable to standard tactics. From the Scottish Borderlands and the Balkans of the 1740s which had spawned the concept of light infantry, to the dense North American woodlands and General Braddock's massacre during the Seven Years War, to Wellington and the Spanish Peninsula, where modern guerilla warfare was born, to the burning sands of French Algeria in the 1830s and 1840s and the Great Plains and Florida Everglades of the United States, European-style armies had labored mightily and, on occasion, with a fair degree of ingenuity, to wage unconventional warfare. In the main, such efforts were rarely reflected in the manuals or in the training regimens of officer cadets. The only major influence on orthodox tactics lay in the use of light infantry as skirmishers to cover the advance of columns of conventional infantry.

Guerilla-warfare, in order to be effectively prosecuted required highly unorthodox tactics, the willingness of senior officers to trust the judgments of junior officers in the field and an effective, coordinated strategy with the diplomats and civil officials. The Army eventually solved the first two problems of tactics and command leadership. Out of the jumble of strategies tried in the Florida swamps, what emerged was basically the same strategy used seventy years later by the British in the Boer War. The swamps were sub-divided into a series of three-square-mile districts. In the heart of each district was a blockhouse and a lieutenant, captain or ensign with forty soldiers, Marines or The emphasis was on aggressive patrolling, volunteers. thereby severely curtailing the mobility of the Indians. In turn, larger detachments traversed the glades by water and on foot, progressively tightening the Army's grip on the Florida mires, in effect, squeezing the swamps dry of its Indian population. Indian Bureau agents, whose ineptitude and belligerence had been one of the primary causes of the outbreak of hostilities, eventually proved somewhat useful in securing the surrender of some of the Indians. Eventually, the Army more or less succeeded in pacifying the Everglades and bringing about the deportation of much, if not all, of the Indian population. These painful innovations in waging unconventional warfare, however, had no measurable impact at all on formal Army doctrine. The harsh tactical lessons learned in the Everglades remained behind when the bulk of the Army was withdrawn to deal with the problem of frontier security on the Great Plains. It was the national political establishment which had failed to support the military effort effectively, from which the Army again learned the painful lesson that in a crisis, it would ultimately have to rely on itself to defend the country.⁷³

The professional officer corp's assessment of the causes of this war appear, on first reading startling: the two primary factors in bringing about open hostilities they argued, were white greed for land and the conflict between two quite different cultures. In fact, these factors were, from the perspective of most professional officers, the usual causes of Indian-white hostilities in this period. The Seminoles had therefore been pushed into war by the unscrupulous acts of some white settlers and the fraudulent and corrupting practices of the whiskey dealers, a problem found on both the Southern and Western frontiers:74

... the passions of a people ((i.e., the Seminoles)), which had been smothered for fifteen years... were let loose, and the savage massacres which had appalled the stoutest breast, gave undisputed evidence of the character of the conquest. Florida, from this time forward, was a scene of devastation, murder, sorrow, and distress.75

The patrician members of the officer corps, charged with the conflicting duties of looking after the welfare of the Indian and in turn protecting the frontier settlers, whose greed all too often brought on hostilities, found the process of Indian control quite distasteful. Yet they dutifully set about their dirty work when the shooting started, the professional ethos of the officer corps placing it above the petty machinations and intrigues of the civil politicians. The Army had little affection for the savagery of their adversaries yet the members of the officer corps understood that it was a function of the Indians' very different culture, "their rude and uncultured code of laws."⁷⁶ The greatest complaint of the Army's leadership, however, was the usual lack of adequate manpower to prosecute effectively and speedily the wars foisted on them by the national political establishment, or as Potter put it:

If the President was determined to gratify the craving appetites of a few avaricious speculators, it was his duty to protect the <u>respectable</u> citizens of Florida against any injury ((that)) might result from his measure, he should have thrown such a force into the territory as to prevent the possibility of resistance....⁷⁷

At the onset of hostilities, the Army's forces in Florida numbered some five hundred men, mostly artillery troops manning the peninsula's fortresses. Their opponents, whose growing inclination to resort to war had been known for months, totaled some fifteen hundred Seminoles, Creeks and black allies. A considerable effort was thus spent by the Army and the Secretary of War in scraping up enough troops to prosecute the war.⁷⁸ Lacking resources and under intensive political pressure to produce a quick victory, the Army tackled its formidable problem with grim determination and, in time, considerable skill. Brevet Captain John T. Sprague, chronicler of this war, expressed the bitter feeling of most Army officers toward their civil political masters when he wrote: "Blood is spilt, millions are squandered, the country ravaged, when the means upon which the only hope was based, to avert the calamity, one put in requisition ((i.e., creating an Indian reservation in Florida)), and the army, amid vindictive abuse and unreserved condemnation, accomplished the desired end."⁷⁹ As usual, the militia proved largely ineffectual; in the best tradition of limited war doctrine, Sprague stated the Army's severe criticism of citizen soldiers.⁸⁰

If mustered into service, each man inevitably leaves his home unprotected while absent, solicitous for the safety of others, his own dwelling may be fired, and his family murdered; his farm from which he draws his daily food, becomes a barren waste, and the habits of industry, which have grown with his... ((efforts)), become enervated by pernicious example.⁸¹

At about the same time as the beginning of the Seminole War, the Second Dragoons were created by Congress as the Antebellum Army's second cavalry unit. The exact motivation behind the establishment of a second dragoons regiment is quite murky. The Second Dragoons appear to have been part of the temporary expansion of the Army in 1836 due to the outbreak of hostilities in Florida.⁸² Consequently, the Second Dragoons have been frequently identified as having been authorized specifically for duty in the Seminole War.⁸³ This portion is supported by the fact that in 1843, after cessation of hostilities in Florida, Congress moved first to disband and then to retain them as a dismounted rifle regi-This decision was in turn reversed in 1844, when Conment. gress authorized the remounting of the Second Dragoons due to strong Western political pressure for increased Army protection on the Great Plains.⁸⁴ The problem with this neat and guite linear progression of events in the complicated gestation period of the Second Dragoons is in the fact that the Everglades were the worst possible terrain in which to deploy cavalry. The morassy terrain of the Florida glades was completely impassable to mounted troops. Consequently, the Second Dragoons, during this campaign, were compelled to slog through the muck of the Everglades as lowly infantry along with the rest of the Army and Marines. Moreover, there is the interesting fact that the first posting of the Second Dragoons was not to Florida but rather to Jefferson Barracks, St. Louis, apparently for Western frontier security duty. It is thus probable that the Second Dragoons were created by Congress pursuant to increasingly vocal Western political demands for adequate military protection; in turn, the establishment of this regiment would have allowed for reassignment of an infantry regiment for Florida duty. However, the massive manpower requirements created by the Second Seminole War forced the Army high command to gut the Western Department for troops of all kind, including the Second Dragoons. The First Dragoons, save for perhaps a few companies in the first months of hostilities, labored alone as the Army's only western cavalry unit until the 1840s.⁸⁵

A third unit of cavalry, the Regiment of Mounted Rifles, was established by Congress in 1846, professedly to man a series of new outposts along the now heavily-travelled Oregon Trail.86 The origins of the Mounted Rifles if anything, are more shrouded in the obscurities of Congressional legislative history than the Second Dragoons. Certainly, this unit was one of congress's most whimsical and peculiar creations in the field of war policy. The primary armament was designated as the 1841-pattern rifle and, of all things, very oversized Bowie knives, which many officers replaced as soon as possible with a saber. The 1841-pattern rifles were simply too unwieldy and possessed too low a rate of fire to be effective for mounted frontier service. Moreover, there was simply no way such weapons could be used by a soldier when on horseback. Further complicating matters was the fact that a different table of organization than that of the Dragoons was established for the Mounted Rifles; thus this new regiment had two extra companies and over two hundred more men and officers. Even the facings on the uniforms were different: yellow (or orange after 1851) for dragoons, green for mounted rifles, as in British Army The motive of Congress in creating such a unit practice. instead of a third regiment of dragoons, which would have ensured the rationalization of Army units into a few specific types is obscure. The primary motivations appear to have been those of foreign policy and protection of the "true" Anglo-Saxon character of the American people and not the actual defense of pioneers on the Oregon Trail. In other words, nativism plus the then white-hot political issue of the Oregon boundary were really the principal influences upon Congress in creating the mounted rifles. The Congressional debates express concern for the racial purity of American society, the untoward threat of immigrants and the need to prove the superiority of youthful American society in the tussle over the Oregon Territory with decadent old Great Britain.⁸⁷ Of course such concerns had little rational connection with issues of national war policy; the mounted rifles was the least desirable form of cavalry in terms of European mounted warfare doctrine and the Army's senior leadership. Nonetheless, Congress did establish the mounted rifles, reasserting, if in a rather roundabout manner, its traditional opposition to military professionalism. The style of the mounted rifles--Bowie knives and long guns--conjure up images of such pioneer legends as Daniel Boone and Davy Crockett rather than regular Army soldiers. As an added benefit (if of small import), was the Army's growing surplus of expensive new percussion cap rifles (in the main, loathed by line infantry officers for their very slow rate of fire) could finally be

put to productive use rather than gathering dust in federal arsenals.⁸⁸

Part IV

The American West from 1812 to 1861 provided few opportunities for the youthful cavalry service to employ formal European mounted-warfare principles. The central obstacle to the effective mastery of cavalry tactics lay in the very wide dispersal of the Army on the Great Plains. At no time until 1861, did more than six companies of any mounted regiment ever serve together, after the initial assignment to the West. The ten companies of each mounted unit were scattered to isolated waddles vain-gloriously titled forts. Moreover, each company was further subdivided into still smaller detachments to man assorted cantonments and posts. The positioning of such detachments was chiefly a political and not a military decision; Army bases in this period were usually situated near settlements or astride commercial and pioneer trails. In 1835 the First Dragoons, according to the Annual Report of the Secretary of War, listed three companies at Des Moines, four at Fort Leavenworth and three at Fort Gibson (Arkansas). In 1848, the First Dragoons listed three companies within the New Mexico Territory and one each at Fort Leavenworth, at Fort Scott (in present day Oklahoma) and at Fort Snelling (upper Minnesota). For the same year, the Dragoons had deployed six companies in the New Mexico territory, two in Texas and two in transit to California.⁸⁹ To put these numbers in perspective and to facilitate an understanding of how hard-pressed the Antebellum Army was in fulfilling its frontier defense obligations, consider the following (and quite typical) statement of the Army's western deployment in 1854;

A. The Department of the West, including the country between the Mississippi River and the Rocky Mountains, save for the Departments of Texas and New Mexico, with a total of 2,400 square miles of territory to be patrolled, occupied by an estimated 180,000 Indians and policed by a total of 1,855 officers and men;

B. The Department of Texas, consisting of that state and adjacent land for a total of some 2,000 square miles, with 30,000 Indians watched over by 2,886 officers and men;

C. The Department of New Mexico, with 1,500 square miles, 50,000 Indians and 1,654 officers and men.

D. The Department of the Pacific, embracing California and the Territories of Oregon, Washington, Utah and part of New Mexico, 3,100 square miles to be patrolled, 134,000 Indians and 1,365 officers and men for the job.⁹⁰

Fundamentally, the professional Army viewed the task of frontier security as not constituting a military problem. Irregular or partisan warfare, according to the prevailing military-legal doctrine, was barbaric and intrinsically dishonorable. John P. Curry, an author of field manuals for the militia, penned a precise statement, in 1861, of the formal military animus toward guerilla warfare:

This, the most barbarous and inhuman mode of warfare known, and by no means recognizable among honorable comba-

tants, is generally resorted to by irregular troops for the purpose of harassing and annoying an invading army entering an enemy's territory. They ((e.g., guerrillas)) usually murder for pay and plunder, and are not prompted by any spirit of patriotism or honor. Guerrilla warfare consists, mainly in making night attacks, way laying strangers, the free use of poison... firing upon victims from ambush... and in robbery, pillage and assassination. If a guerilla is caught, no clemency whatever should be extended to him.⁹¹

This pronounced opposition to partisan warfare by members of the trans-Atlantic military community, was part of the legacy of the limited war tradition and the profound intellectual reaction against the unrestrained violence and the brigandage of the Thirty Years War. War was thus supposed to be fought according to universal rules of engagement, by clearly identified combatants for limited objects and restrained by reason and honor.⁹² The problem, therefore, for the Professional American Army, was how to wage an unorthodox war without sacrificing its hard-won commitment to a European style of war and in turn, without sullying its honor, "that active and heaven-born principle,... that purifying an ennobling sentiment which pervades every word and action, while it regulates and controls the passions...".93 The Army, it should be recalled, was bound as well by its seconds obligation of protecting the samesaid Indians from the unlawful conduct of some whites. The problem was never formally tackled by the Army's leader of how to blend these disparate duties into a coherent policy: tactical problems of frontier security and legal questions involved in the

management of Indian affairs were largely left to the imagination and discretion of field officers.

That is not to say that the European military traditions and practices on which the professional Army was modeled had no utility in aiding officers in tackling the complex and thorny issues involved in frontier security duty. Surprisingly, it was again the tactics of the French Army which proved invaluable in solving the question of how to control the Indians. A frequently used term to describe the Indians, was that they were "Arabs" or "mussulmen". Captain John Pope, for example in describing the Indians of the Southwest in 1853, stated that their habits (including in battle) were similar to the "wild Arabs" of the desert.94 Similarly, Army Surgeon R. Gilson, described the Comanches as "those arabs of the western prairies."95 The origin of this practice of defining the Army's problem of Indian control as analogous to management of the Arabs was derived directly from recent French Army experience in North In the 1830s and 1840s, French armies waged a Africa.⁹⁶ protracted and highly fluid war with the Berber tribes. The initial and wholly unsuccessful tactical scheme was the "Great Wall", entailing reliance upon numerous small, static garrisons to seal off the Berber threat from populated Essentially, therefore, in terms of American areas. frontier military policy, the same type of tactics which had proved equally ineffective on the Great Plains and in the Mississippi Valley in the immediate post-War of 1812 period. In 1840 Marshal Thomas-Robert Bugeaud was dispatched to Algeria to take command of the flagging war effort and to implement his guite original and even daring tactical solution to the Arab's guerilla tactics. Within his command were three American Cavalry lieutenants sent to France by Secretary of War Joel Poinsett with the objective of returning with the most up-to-date training and manuals in mounted warfare so as to ensure that the dragoons were truly an effective cavalry unit. Bugeaud replaced the numerous small garrisons with large, strategically positioned concentrations of troops. The new tactical emphasis was on celerity and mobility; heavy supply wagons were replaced by mules and the heavy artillery left at base. Small detachments of cavalry and infantry were sent out as scouts to shadow the Arabs and pinpoint their location. Aggressive patrolling and rapid and effective retaliatory strikes by cavalry and infantry, exploiting their new swiftness of action to the fullest, accomplished in four years what France had failed to do in the previous twenty; or as Bugeaud himself put it:

I have made myself as much an Arab as you are. More than you perhaps for I can remain on campaign longer without returning for supplies. Your vast solitudes, your steepest mountains, your deepest ravines cannot frighten me or stop me for a moment... I am mobile as you are. There is not as single corner of your territory which I cannot reach. Like a river of fire I will scourge it in all directions, today to the south, tomorrow to the east, the day after to the west, then to the north.⁹⁷

Arab and Indian societies were highly dissimilar, the former being considerably more organized. Yet the styles of warfare of these two peoples bore many similarities: fleet, highly mobile adversaries, specializing in hit-and-run tactics, and exploiting the harsh, inhospitable terrain in which they lived to their advantage. Thus, there was a common bond of experience, based on the solution of broadly similar tactical problems, between American and French offi-Lieutenant Philip Kearny, who distinguished himself cers. in the Algeria campaign of 1841-1842, returned to the dragoons imbued with the latest advances in waging both orthodox and unorthodox warfare. For Kearny, "the French theory of tactics... ((was)) the most perfect" of his day, a statement which would have been readily agreed to by most professional officers on both sides of the Atlantic. While the French tactics in Algeria, unlike their formal principles of mounted warfare, were never written down in any formal military treatise, they nonetheless influenced American counter-Indian tactics in the Antebellum era. Mule trains were used for resupply in rough country, infantry were employed to screen cavalry and supply trains from ambush in mountainous terrain and small herds of sheep and cattle were driven behind the troops to provision large field operations.⁹⁸ Thus, the definition of frontier security problems in the context of European military practice, particularly that of the Army's mentor, France, further

strengthened the ties of the officer corps to the professional concept of war.

Both the French and the American armies arrived, independently, at the conclusion that cavalry was fundamental to the effective control of hostiles, Arab or Indian. Thus without cavalry, according to Colonel George Croghan, "our interior commercial can ((not)) be protected against the tartars of the prairies by Infantry stationed at posts, without the assistance of a mounted force."99 Again, as pointed out by Captain Cooke: "in no country of Europe, nor in Asia, can horses be so numerously and so cheaply supported as in the United States; and our plains and prairies plainly indicate that cavalry is the most suitable military An alternative tactical solution to the problem force."100 of suppressing the raids of the Plains Indians would have been by the use of a largely mounted combat force, supported by limited numbers of infantrymen to man garrisons and for use in hilly terrain. Such tactics were used in the Nineteenth Century by Imperial Russia to secure control over their Central Asia territory. Such a radical departure from orthodox military tactics never developed due to two insurmountable obstacles. First of all, Congress had little enthusiasm for expanding the strength of the Army, resulting in a continual shortage of troops that was only gradually solved over the course of the Antebellum period. The second key obstacle lay in the intrinsic military professionalism of the Army itself. The fundamental tactical precept of formal European-style warfare was that the infantry was the king of battle; cavalry was no more than a useful adjunct to the foot-soldiers. The Army therefore went about the difficult task of Indian control by bending and twisting their European oriented war fighting system to the requirements of the frontier.

Practically speaking, the basic operational character of the Army's means of suppressing Indian incursions was wholly military in character. It was not, however, defined as being military in nature by the officers waging these campaigns. On the other hand, it was clearly not the police-like campaign employed across the border in Canada. The Royal Canadian Mounted Police tackled the question of Indian control in the fashion of a conventional police problem of maintaining law and order. This approach was wholly reactive in nature: in the main, individual violators of Canadian law would be apprehended and tried for their offen-Only infrequently did the R.C.M.P. resort to the use ses. of large scale detachments of police and soldiers to control their Indian populations; for example, between 1886 and 1895, there were 943 military engagements in the American West compared with only six or seven in the Canadian Northwest Territory. Of enormous importance in aiding the efforts of the R.C.M.P. was the fact that the central Canadian government worked vigorously to restrain western settlement until the Indians had been pacified. Consequently, the R.C.M.P. was not nearly as burdened as was the American Army with the task of safeguarding large numbers of western settlers from Indian attack. While seemingly more orderly and less combative, the Canadian police model did not, in fact, prove successful. It was rather the far more massive and belligerent campaigns of the American Army to the south that broke the resistance of the Great Plains Indians on both sides of the border.¹⁰¹

A second, very different strategy of Indian control was that of the Texas Rangers. Basically, in dealing with the Comanche and other tribes, their technique was to out-Indian-the-Indian, including, on occasion, the ferocity of The Rangers attempted to drive their opponents to combat. ground and then decisively engage them, exploiting the enormous firepower advantage of their Colt cap-and-ball revolvers to the fullest (the Rangers had these weapons in action some twelve years prior to official Army service adoption); an average company of one hundred and twenty men, armed with two revolvers each, could discharge a then mind-boggling total of fourteen hundred and twenty rounds without reloading compared to the earlier total of one hundred and twenty with single-shot weapons. When the Cossack-like Rangers were infused with military discipline, as in Rip Ford's famed 1858-1859 campaign on the Canadian River against the Comanches, the results could be devastating against the

Indians.¹⁰² The United States Army, inherently a military force and governed in its actions by its professional code of honor, chose instead to corral the Indians, who were at once their adversaries and in effect, their wards, onto secure reservations.

The concept of the American Indian held by Army officers was marked by a profound sense of ambiguity. Many officers, according to the popular stereotype, did find the Indians to be savages--cruel, selfish, treacherous, disgusting in their personal and societal habits and inveterate beggars,¹⁰³ As forcibly articulated by Lieutenant William Averall, there was something quite demeaning in the nation's practice of squandering its West Point graduates on the lowly and occasionally dishonorable duty of Indian control:

With all the elements of science and rudiments of art with which we had been loaded during the four years ((at West Point)), we were... now to be used simply and sadly to supervise the learning and disciplining of soldiers and to train them in the art of killing Indians.¹⁰⁴

As a rule, the greater the ferocity and the larger the variance from accepted practices of American culture, the greater the dislike of such Indians by members of the officer corps. One Army wife, Theresa Viele, writing for her husband, a captain, described the Comanche in the harshest of terms: "there could not be a blacker record of infamy and rapaciousness. The Comanche possesses no vestige of the noble traits of the redmen of the northwest." Rather, "he is a bloody, brutal licentious, and an innate thief."105 Such perceptions, however, reflected only part of the complex set of viewpoints held by members of the officer corps concerning the Indian, who as Surgeon Gilsan pointed out, "range from the primitive savage to the half-civilized...."106 The perceptions of individual officers thus varied with their own personal experiences and in turn, due to the particular tribe(s) with which they had contact. Thus, Major-General George A. McCall, as a youthful junior officer serving in Florida in the late 1820s, penned a quite perceptive assessment of the Seminole Indian and his relationship to white society:

The difference in the development of the intellectual facilities as well as moral, had they been by nature carved in the two races, which I am satisfied is not the case... ((lies in)) education or in other words, the habitual experience of the mental moral faculties in the different pursuits of savage and civilized life, would, in the course of ages, have produced the differences between the white man and the red which now exist.107

Indian warfare, savage and barbaric to most whites, could thus be understood by the professional soldier as a function of his less developed culture, a point which was succinctly stated by Lieutenant Potter:

In war, the Indian has been regarded as a ferocious beast, and therefore life and death was a matter of mere precaution. He goes into battle smarting under manifold injuries and indignities, and he is driven into madness and despair by the overwhelming ruin which results from a war with us.108

The duty of the Army in regards to the Indian was inherently contradictory, requiring it to protect both red

and white interests. Moreover, the professional ethos of the officer corps, their strong patrician values and sense of aristocratic honor, motivated them to intervene on behalf of the Indians and to protect them from the frontiersmen, particularly the infamous whiskey dealers, for whom they had little affection.109 Yet with skill and determination, if not enthusiasm, these officers undertook the forced relocations of the Indians further West, onto increasingly less desirable terrain.¹¹⁰ While such efforts were "cruel in the extreme" they were nonetheless carried out.¹¹¹ Perhaps Surgeon Gilsan best expressed the tangled perceptions and values held by Army officers toward "those children of the forest", when he wrote with considerable insight and compassion:

Thus it ever is: the red man of the Atlantic slope must be crowded further west, whilst his race on the far-off Pacific shores, are jostled and pushed towards the rising sun. When at last the great tides of immigration met midway between the two oceans, the remnants of the sixteen millions of those native bands of the soil, that once roamed over this broad land, who shall have left their bones bleaching beneath the waves of advancing civilization. One shudders at the thought of the many blood conflicts yet to occur between these contending races of human beings....

If we are to take history as our guide in determining the future, the right and wrong of those cruel encounters will not always rest exclusively on either side -- but one time with the red man -- at another with his pale-face brother.112

Whatever its reservations toward the business of Indian control, the Army nonetheless had on occasion to use force to suppress uprisings. Few comprehensive descriptions of cavalry versus Indian engagements were recorded in the Antebellum period, by American cavalry officers. One exception is the illuminating account by then Second-Lieutenant John The distinguishing feature in this skirmish was B. Hood. that Hood's men, due to insufficient numbers leaving no one to spare to act as horse handlers, fought mounted, rather, than as was customary, as dismounted light infantry. On July 5, 1857, Hood set out from Fort Manon, in the Texas Department of the West, with twenty-five men of Company G of the later First United States Cavalry. Their mission was a routine patrol of the area. After some ten days in the field, Hood's men chanced upon a two or three-day old Indian trail, which the patrol proceeded to follow along a line of dried-up waterholes. The Indians being stalked were suspected by Hood to have been a band of marauders, incorrectly identified as being Tokaways (who usually fought as scouts along side the Army), who had previously ambushed American soldiers whole under the guise of a flag of truce. After several days of difficult travel through the arid, rocky, desert country, Hood's detachment finally came upon the Indian band they had been diligently hunting. Hood's operational strength had diminished to only seventeen men as a consequence of injuries to eight of his horses. Upon reaching the Indian encampment, Hood proceeded to make an initial inspection while mounted. The Indians held a waterhole, positioning their encampment on a hillock, concealed by thick clumps of Spanish bayonet. What Hood had come across was in fact a band of some one hundred Comanche and Lyan-Apache warriors and their families.113 While decisively outnumbered, these troopers had the advantage of greatly superior firepower:

Every man was armed with an Army rifle ((e.g., A Sharps 1854-pattern single shot, breech loading carbine)) and six shooter, a few of us had sabers and two revolvers, whilst I was armed with a double barrel shot-gun loaded with buckshot, and two navy six-shooters ((.36 caliber as opposed to .44 caliber - officers still commonly purchased their own side arms in this period)).114

Indian armament consisted of bows-and-arrows, lances, buffalo hide shields and a few single shot trade muskets (so-called, because they were cheaply made especially for the Indian trade).¹¹⁵ Despite the unfavorable disparity in numbers, Hood elected to close with the Indian warriors or dog soldiers because he, like many other officers, was personally inclined to accept "the belief ... that twenty well armed soldiers should be able to successfully engage four times their number of Indians...."116 Such beliefs did not constitute idle boasting or false bravado on Hood's part. The combination of superior firepower, as provided by Colt-Dragoon pattern cap-and-ball-revolvers and Hall and Sharps carbines, with vastly greater discipline, fire control and marksmanship allowed small bodies of troopers to deal with much larger Indian warrior bands.117

Indian tribes did not fight according to European concepts of warfare; tactics as such were largely unknown.118 By-and-large, most cavalry-infantry skirmishes arose from chance encounters; it was the Army which was the aggressor on most occasions. For the most part, Plains Indians fought what were essentially individual battles regardless of how many warriors were involved. The aims of the combatants were completely different: for the Indian, war was a question of honor and necessity, such as contests for horses or valuable hunting land; for the Army, it was their full-time occupation. The first phase of such a battle was for the Indian warriors to charge in mass and then, at about one hundred yards, split into two formations skirting the soldier's position so as to avoid their greater The Indians hoped to cause sufficient disarray firepower. among their opponents so as to draw them into their style of individual, close-order combat. The warrior's greatest achievement lay in the accumulation of personal honor, achieved by scoring coups or touches with a specially nonsharpened stick or performing some other equally brave feat. Killing an opponent, while prestigious, constituted a somewhat lower level of achievement. Once one's personal honor had been vindicated, it was perfectly acceptable for that brave to sit out the remainder of the engagement. And there was no obligation of honor for any warrior to participate actively if he and the spirits did not feel it was a good day for him to die. In contrast, the Army's soldiers attempted to ensure the death of their opponents by aiming their weapons, unlike the Indian practice of firing in barrage-like fashion, the same as they would when hunting buffalo. Furthermore, the Army fought in controlled, disciplined formations with a clear, concerted object of trouncing their foes.119

Returning to Hood's narrative:

When we were within about twenty or thirty paces of the mound occupied by the Indians... a force of them advanced towards us with the flag ((i.e., a white sheet fraudulently out as a flag of peace)). Suddenly they threw it to the ground and fired upon us.¹²⁰

The Comanche and Apaches proceeded to launch their attack, on foot and horse, against Hood's detachment:

Thus began a most desperate struggle. The warriors were all painted, stripped to the waist, with either horns or wreathes of feathers upon their heads; they bore shields for defense, and were armed with rifles, lances and arrows. The full and sharp report of our rifles, the smoke and encroaching noise of the fire ((a defensive blaze set by the Indians to screen their women and children)), together with the great odds against us, the shouts of the soldiers and the yells of the Indians, betokened ((sic.)) the deadly peril from which seemingly naught but a miracle could effect our deliverance. Each man after discharging his rifle, drew his revolver, and used it with terrible effect as the warriors, in many instances. were within a few feet of the muzzle of our arms. Stubbornly did my brave men hold their ground; again and again they drove the enemy back to the edge and in rear of the burning mass of weeds in our front, when finally the Indians charged desperately and forced our line back a few paces in the centre.121

Thus raged this hand to hand conflict until all our shots were expended, and it was found that owning to the restiveness of the horses we could not reload while mounted. We then fell back about fifth yards and dismounted for that purpose.122

At this point in the engagement the Indians broke off the fight, signaled by a loud piercing scream from their squaws for their dead and wounded, with an estimated ten warriors killed. Hood's detachment had suffered two men killed, four severely wounded and several flesh wounds; the unit's commander himself suffered a grievous injury as a result of an arrow which struck his left hand, pinning it to his bridle. After retreating some fifty yards to reload, Hood decided to first care for his injured. Despite his wound, Hood continued the chase, which forced the Indians back on their reservation, first with infantry and then with cavalry reinforcements. Later intelligence from the local Indian agent confirmed the actual loss of nineteen warriors, including two minor chiefs, and many wounded. The Army's dead were buried with full honors, with the following eulogy:

No useless coffin confined his breast Nor in sheet or shroud they buried him But he lay like a warrior taking his rest With his martial cloak around him.123

For his handling of this action, Hood was personally commended by Brevet Major-General D. E. Twiggs, commanding the Department of Texas, and quite unusually, by Commanding General Scott, for his gallantry, coolness and efficiency.124

The tactics which the American cavalry adapted for use on the frontier were wholly French in origin; Lieutenant Kearny championed the superiority of their mounted warfare doctrine when he wrote, "in cavalry which... the French, has kept progressing in perfection ever since the great wars of Europe, everything useless has been rejected, and everything... is practiced in the best manner."¹²⁵ The 1841 or so-called Poinsett manual of cavalry tactics was lifted in total from the then standard French work on mounted warfare. At Carlisle Barracks Army horse soldiers were drilled in the techniques and customs of European-style cavalry warfare, while field commanders were left free to devise their own schemes for instructing their men in Indian fighting. And at West Point, save for Captain George H. Thomas's brief tenure (1850-1851) as instructor of cavalry tactics, cadets received no instruction whatsoever in the intricacies of Indian management.126

Not only were the cavalry tactics not affected by frontier experience but the Army's equipment and weaponry was equally little affected. The enormous gulf between the formal, professional Army and the ragtag force guarding the frontier, was demonstrated by their continuing commitment to the <u>arme blanche</u> as the primary cavalry weapon. Only a handful of men and officers carried a saber into the field; its principal functions in the West were ones of ceremony and as a badge of rank. Saber charges of the classical, European variety were virtually unknown in the Indian wars of the Great Plains. Moreover, many a cavalry officer questioned the utility of carrying swords when engaged in Indian fighting. Major Albert Gallatin Brackett pointedly expressed the limitations of the saber, when he wrote:

The saber in Indian fighting is simply a nuisance, they jingle abominably, and are of no earthly use. If a soldier gets close enough to use a saber, it is about an even thing as to who goes under first....127

Similarly, Major-General William Hardee argued that in Indian fighting, a saber was unnecessary because:

In marching it makes a noise which may be heard at some distance, perhaps preventing a surprise, and in a charge, when not drawn is particularly an encumbrance.¹²⁸

The cavalry was very deficient, as well, in its firearms. Granted that most soldiers, of whatever branch of service, were only "average marksmen", and that most commanders rarely emphasized target practice, yet the cavalry's firearms were exceedingly inefficient even by the standards of the day.129 As Inspector General, Colonel Joseph Mansfield put it in his official report, "the musketoon as arm for the dragoon or mounted man in any way is almost worthless."130 While "illy suited" for the demands of Indian fighting, the smoothbore remained in service until the Civil War.131 The Ordinance Bureau, hidebound in its devotion to orthodoxy in firearm design, fought aggressively to block the adoption of first the Hall carbine, then the Sharps carbine and the Colt revolver as mechanically unreliable, as

too complex to be issued to common soldiers, and far too expensive.132

The uniforms of the dragoons and mounted rifles were wholly unsuited for the rigors of frontier service. Heavy wool cloth, tightly cut and adorned with brass scales on the shoulders to ward off saber blows were fit only for placid surroundings of an eastern parade field. Most soldiers and officers improvised their own personal field uniform, consisting of a mixture of civilian and Army-issued clothing.¹³³ Perhaps the most glaring example of the continuing domination of formal European military doctrine, regardless of actual experience in Indian fighting, can be found in the selection of mounts for the cavalry. The dragoons and the mounted rifles were created specifically to combat the swift and highly mobile Indians of the Great Plains. The Army's leadership, however, desiring to make their cavalry units fit-and-proper according to European military standards, chose standardbreds, thoroughbreds and Morgans as their Such majestic animals were functionally outclassed mounts. by the unimpressive-looking Indian pony. The Army's horses required greater care and were dependent for their sustenance on grain, preferably oats, and not the abundant wild prairie grasses. Not only were the Army's horses inferior as cavalry mounts, in regards to the requirements of Western Indian fighting, they were decidedly slower as well. Furthermore, speed was not an appropriate term to describe a trooper in the field, weighed with up to a hundred pounds of weapons and supplies. Eventually, cavalry commanders, once having become adjusted to the realities of patrol duty on the Great Plains, trimmed the weight of the loads carried by their troopers to a more functional fifteen to forty pound The Army, unlike the Mexicans and the cowboys, never range. adopted the sensible Indian practice of maintaining a reserve supply of horses for their dog soldiers. The absence of such a remada system, as shown in Hood's account of one fire fight, meant that each trooper had to depend upon his one animal which, in turn, required over eight hours of rest per day.134 Thus, to many cavalry officers, orthodox concepts of mounted warfare, as officially adopted by the United State Army, were inappropriate for the requirements of frontier security duty. Colonel Randolph B. Marcy succinctly stated the problem of inappropriate and largely unworkable tactical theory being out of line with tactical reality on the western prairies when he wrote:

The art of war, as taught and practiced among civilized nations at present day, is no doubt well adapted to the purposes for which it was designed viz... The organization of armies acting in populated districts, furnishing ample resources, and against an enemy who is tangible, and makes use of similar tactics and strategy. But the modern schools of military science are but illy suited to carrying on a warfare with the wild tribes of the plains. 135

The quaint notion of trying to spear such a swift and dauntless adversary as the mounted American Indians with a lance or sending a relatively plodding <u>cuirassier</u> waving his

saber after such a nimble foe was patently absurd. Yet that was what was prescribed by the Army's manuals on cavalry warfare. Certainly, had the Army been so inclined, it could have developed its own unique school of cavalry tactics, tailored to the requirements of the Great Plains. The Congressional opponents of the regular cavalry emphasized the value of irregular troops, unburdened by the formalities of European warfare ala the Texas Rangers, as a preferable military force for the task of Indian control. The 1833 United States Army had no active cavalry tradition for nearly eighteen years prior to the establishment of the dragoons. As Cooke effectively argued: "the service of cavalry had become with us a forgotten and unknown branch of military knowledge, something to be read of, as we do, of the Macedonian phalanx."¹³⁶ The Army's leadership, however, had dedicated the regular military establishment to the French-Austrian school and the requirements of waging a European-style war, so as to avoid further humiliation of American arms as produced by the War of 1812. There was simply no room for the official sanctioning of deviance from the orthodoxy of European warfare. After all, frontier policing was not even a military task at all but rather a necessary but onerous duty imposed upon the Army by the President and Congress. In addition, even among the hardest and most experienced of cavalry officers there existed a deep, personal commitment to military professionalism.

Thus, for example, Cooke, long a dragoon officer and eventual commander of the First Regiment, could, in the best romantic style of military writing, author a stirring tribute to the ethos of cavalry warfare of the classical tradition:

The speed of a line of charging cavalry, the aggregate of life, motion, mass, and power gives a spiritual momentum to both rider and horse.¹³⁷

The long isolated service on the Great Plains would have appeared to have been a poor incubator in which to develop American military professionalism. Indian fighting certainly provided the Army's officer corps with few if any opportunities to employ their formal skills in the art of The political necessity of maintaining numerous tiny war. forts and garrisons scattered on the western prairies was clearly not conducive to supporting a high level of morale. Colonel Marcy, reflecting a general consensus of the officer corps on this issue, vigorously attacked this practice when "The morale of the troops must thereby ((be)) he wrote: impaired and the confidence of the savages correspondingly The system of small garrisons has a tendency to augmented. discourage the troops in proportion as they are scattered, and renders them correspondingly inefficient."138 Considerable amounts of time and labor while on post had to be expended on such non-military chores as heavy construction and farming due to the financially stringent budgets passed by Congress.139 Frontier service was hard, tiring, and unimaginative work. Most garrison posts consisted of a few huts, a well and little else, situated in the main, far from any town. The privations and hardships of the frontier made Army service unrewarding and unattractive. As one army wife so plaintively put it:

Little does the casual observer of West Point know of the after existence of its graduates and their lives of exile and privation on the frontier, passed in largely seclusion from the world, a stranger to the ordinary comforts of civilization.¹⁴⁰

The arduous requirements of frontier duty were reflected in the exceptionally high rates of desertion. In any given year during the Antebellum period, as much as onethird of Army strength was lost to desertion. This was in spite of brutal corporal punishment, including flogging and branding. Field patrols offered only an occasional respite from the tedium of garrison duty. For officers, there was no formal incentive for pursuing their studies in the art of For line officers, there were few of the opportunities war. for varied and interesting careers available to engineers, coastal artillery and staff officers.141 The grueling and highly taxing nature of frontier service was painfully described by Captain Lemuel Ford, who in his final two years of frontier duty with the First Dragoons (1834-1836) saw his family for only a couple of weeks and who died due to a disease contracted on the Plains: "I am clearly of ((the)) opinion that a soldier be so disencumbered from the things of the world as to be all wasy ((sic.)) Ready to <u>March</u>, Ready to Fight and Ready to Die."142

It might seem, upon initial examination, that the conditions of western frontier security duty afforded the Army opportunities to employ the doctrine and skills of a European-style military service. Certainly the task of Indian control, with an emphasis upon highly unorthodox modes of warfare, provided no chance for the use of either classical cavalry or infantry tactics or permitted more than the infrequent employment of such key weapons as the saber or the bayonet. Yet valuable lessons of command and leadership were extracted from their long years of frontier service by Army officers. "The Dragoon regiments," as one officer stated it, "are almost constantly upon the move at the West, and the continued marching gives officers and men the practical knowledge of their duties so eminently essential to cavalry."143 The heart of a nation's war fighting system is not the particular tactical and strategical doctrines in use or the weapons which equip their soldiers. Rather, it is the constellation of social, professional, political and intellectual concepts and values that constitute the world view of an officer corps and which in turn, serves as the foundation of a country's war fighting system. Thus, it was the long, unrewarding and solitary years of frontier duty which served to create ties of fellowship and professionalism among members of the officer corps. It was precisely the isolation and insularity of frontier service that gradually converted the goal of military professionalism in the American Army officer corps into reality. The long hours spent in casual conversation, when officers "fought their battles o'ver ((sic.)), from West Point and the girls they left behind them through the swamps of Florida, the wilds of Texas, over the great plains, the mountains, on the fields of Mexico" as well as other forms of social interaction created the mortar which bonded these soldiers together as professionals engaged in a unique activity as part of a collective enterprise.144

Granted that individual enmities and personal dislikes between officers, many forged at West Point, were fueled by the smallness of the American officer corps and by the restricted opportunities for career advancement. In the main, however, military professionalism grew strongly in the Antebellum era. Of perhaps even greater importance, to the development of military professionalism were the continual proofs, provided by the various campaigns of the Army during the Antebellum period, of the essential validity of the post-War of 1812 reforms. Thus, the Black Hawk War and the Seminole War served powerfully to demonstrate the key lessons that due to massive and unwarranted political interference, the Army would have to rely on its own expertise to save the nation from foreign invasion and that in turn, reliance on the militia was dangerous and ineffectual.145 The long years of frontier duty, hampered by grossly inadequate resources and funding, further reinforced ties of solidarity among the officer corps. The ceaseless and frequently unproductive involvement of Congress and the executive branch in what the officer corps viewed as intrinsically internal military matters, further solidified the sense of collegiality among Army officers.¹⁴⁶

Part V

In 1846, the United States Army was finally provided an opportunity to vindicate its faith in military professionalism and the French-Austrian school of war. The Mexican War (1846-1848) offered the Army its first chance since the War of 1812 to field brigade and division-size units. This war can be divided into two parts. The first was the irregular war, fought in what is now the Southwest United States and California. The centerpiece, insofar as the cavalry was concerned, was Colonel Stephen Kearny's almost bloodless seizure of Santa Fe, New Mexico, and his subsequent epic march through the uncharted Southwest desert to California. Kearny, with only one hundred regular dragoons of the First Regiment, prevailed against some five thousand Mexican regulars due to highly efficient and quite unusual close cooperation with a regiment of Missouri volunteer rifles. After almost effortlessly securing his assigned target, Kearny elected to take a proportion of his command westward to the Pacific. The crossing of some twelve hundred miles of largely unmapped and exceedingly inhospitable country, without incident in three months, was brilliant proof that the United States Army had mastered the difficulties of long range western travel. While fascinating and heroic, Kearny's expedition was at best only a sideshow of the war with Mexico. The only significant application of American cavalry in this war, it was wholly lacking influence on Army tactical doctrine. The real war, to the south, was instead to be fought according to conventional tactical principles, under which cavalry would assume its proper function as an adjunct to the infantry.147

The Mexican War proper, encompassing the campaigns of General Winfield Scott and Zachary Taylor, was marked by only limited and not particularly effective use of American One crucial factor in hindering the field effeccavalry. tiveness of the regular cavalry was the notable lack of regimental unity. Neither the First, Second or Third Dragoons (the latter created by Congress for temporary war service on February 11, 1847) ever served as fully organic cavalry regiments. These units, as with the assorted volunteer cavalry formations, were habitually broken up into ever smaller detachments, doled out to various grades of field commanders when the need for mounted troops arose and when adequate numbers of horses were available. The Mounted Rifles fared much better in retaining regimental unity due

to the humiliating fact that all their mounts were lost when the transport carrying them to Mexico sank in a storm. Surprisingly, only a single company of the mounted rifles ever served on horseback in this war, despite the huge numbers of mounts captured from the Mexican Army.¹⁴⁸ The volunteer cavalry units were rarely more than nuisances, having only marginal offensive combat effectiveness as horse soldiers. According to one regular cavalry trooper, Samuel Chamberlain, sounding the complaint of most dragoons, the volunteers were almost useless:

The material that these regiments were composed of was excellent... the men possessed fine... strength combined with activity, but they had no discipline, or confidence in their officers....

Their impatience of all restraint and egotism made them worse than useless on picket; while in camp, they were a perfect nuisance.149

The adversaries of the American mounted forces were highly trained, thoroughly European in their organization and tactics and superb horsemen. The Mexican cavalry numbered in the thousands, not counting auxiliaries. In comparison, the Americans never managed to muster more than six hundred troopers on horseback for any given battle. The high level of Mexican horsemanship earned their cavalry ample praise from their North American antagonists. According to Colonel Brackett, who served in Mexico:

Our people had the advantage of larger horses and heavier men as a general thing, but the Mexicans were much more agile, and would handle their horses as well as perhaps any people on earth... as the Mexicans, accustomed as many of them are to a life on horseback, and all of them feeling a pride in owning horseflesh, it did not take them as long a time to train them as it did us, who particularly those from older states, knew little or nothing about riding or managing horses.150

American mounted forces played only small, supporting roles in such key battles as Palo Alto, Buena Vista, Molino Del Rey and Mexico City. Their functions were principally ones of drudgery: guarding lumbering supply columns, serving as officer escorts and, more dangerously, hunting down the unprincipled Mexican guerrillas. Even cavalry's traditional forte, scouting, was performed by another branch of the Army--mounted engineers, with horse soldiers acting only as an escort. Aside from organizational disruption and the rough, jagged terrain of Mexico, the primary obstacle to the more innovative employment of American mounted forces lay with senior officers and their devotion to European rules of warfare. Both Scott and Taylor, by training and vocation, were infantrymen, with little more than theoretical knowledge of the use of cavalry in battle. Both officers were professionals, grounded in European concepts of tactics which made cavalry simply a handmaiden of the infantry. Where cavalry participated in major engagements, it usually fought dismounted. The general lack of troops caused the use of every available man--soldiers, Marines, volunteers and even sailors -- as infantry. While the fortunes of the cavalry arm did not prosper in the course of the Mexican War, the Army itself reaped massive benefits. With speed and dispatch, the Army had defeated a much more numerous foe on his home territory and quite distant from its supply Granted that on a contemporary scale of internasources. tional significance, the Mexican War was a rather piffling affair, it nonetheless was a considerable achievement for American arms. It was in particular, a triumph of military Scott's brilliant campaign against Mexico professionalism. City was a textbook application of Jomini's concepts to the solution of a particularly thorny military problem, which as the Commanding General himself put it, was "to compel a people, singularly obstinate, to sue for peace it is absolutely necessary ... to strike effectively at the vitals of the nation."151 Scott therefore directed the main American military effort at the Mexican capital, in classic limited war fashion, avoiding pitched battle as much as possible and having accomplished his objective, forcing the Mexicans to sue for peace.

The relative isolation of the Mexican theater of operations from the United States lessened the availability of the militia forces and correspondingly increased the importance of the regulars; or as Captain W. S. Henry put it, "I can not but repeat, that we all ((i.e., the officer corps)) feel proud that these conquests had been effected by the <u>army proper</u>." That is not to say that the volunteers were unnecessary, far from it, since the regular Army was simply

too small to have undertaken the war by itself. The volunteers, overall, thus fit into the niche assigned them by the Army's warfighting system, as auxiliaries to the regulars. However, as in the earlier frontier wars, the Army retained its strong aversion toward the citizen soldiers as less than effective in battle. The general position of the Army that "campaigning is entirely out of... ((the militia's)) line," was as once again demonstrated by the Mexican War, as was forcefully stated by Henry:

Before this war is over, the government will be forced to confess, and the volunteers freely acknowledge, without any charge against their patriotism or efficiency, that the volunteer system is one of the most outrageously expensive and inefficient way with which any government could undertake a war of invasion.¹⁵²

A more savage criticism of the volunteers was made by a then highly promising Second-Lieutenant of Engineers, George B. McClellan, reflecting a good deal of the Army's pent-up resentment at these amateur soldiers:

I allude to the sufferings of the volunteers. They literally... ((act like)) dogs. Were it all known in the States, there would be no more hue and cry against the Army, all would be willing to have a large regular army that we could dispense entirely with the volunteer system.¹⁵³

The conduct of the war and the subsequent occupation of Mexican soil was conducted with honor and integrity, "that high standard of virtue and honor", according to General Scott, "which we boasted at home."154 The Mexican War, however, was completely unoriginal in regards to the arts of war. Aside from a few percussion-capped rifles (which Scott

attempted to block from entering service on grounds of ordnance conservatism) there were no differences from the tactics, weapons and equipment used at Waterloo some thirtytwo years earlier. Moreover, there were none of the numerous problems of command and logistics that plaqued the British Army in the Crimean War to mar the Army's overall high level of military effectiveness. Of course there were still problems between the Army and the executive branch in the division of responsibility in directing the war effort; Scott and President James Polk were almost constantly quarrelling over American war aims and tactics, for example.¹⁵⁵ Measured by results, however, the American military effort against Mexico was considerably better managed than the War of 1812 fiasco. Acceptance of military professionalism thus enjoyed a badly needed and quite considerable boost from the stellar performance of the regulars.¹⁵⁶ West Point, according to Ashbel Smith, as a result of the superb performance of its graduates in Mexico, had "fought itself into favor at home; the science, skill, soldierly deportment, and valor of the graduates of the Academy have gained a great triumph over the prejudices of the ignorant among our citizens."157

The Army had thus, in the span of only thirty or so years, matured into a truly modern and capable military force. It had done so in the face of massive popular and political opposition, crippled by lack of resources and manpower and despite its long, odious and dishonorable misuse as a police force to suppress the Indians. The War of 1812 had been the nadir of the Army's prowess and reputation as a fighting force. Secretary of War Cass expressed this point exceptionally well in 1836:

We were comparatively ignorant of the state of military science and we did not fully recover our true position till we had received many severe lessons, at what expense of life and treasury need not be stated.¹⁵⁸

The efforts of the post-War of 1812 reformers -- Gaines, Macomb, Thayer, Calhoun, Scott and the others--was thus vindicated by the triumph of American arms in Mexico. While to many Americans the regular military establishment would remain tainted with the traits of decadent, aristocratic Europe and subject to obloquy and hounded with political opposition, the Army, despite the shrill cries of a few that in fact American victory in Mexico was really the rejection of European principles of scientific warfare, had won for itself a new and valid claim to be vital for national defense and an effective agent of the country's foreign policy,159 Jefferson Davis, a West Point graduate and himself a hero of the Mexican War as a volunteer officer, in a speech given as a Congressman to honor General Taylor, annunciated the apparent lessons of the conflict quite effectively when he proclaimed:

Much was due to the courage which Americans have displayed on many battlefields in former times; but this courage, characteristic of our people, and pervading all sections and all classes, could ever have availed so much had it not been combined with military science. And the occasion seem suited to enforce this lesson on the minds of those who have been accustomed in reason and out of reason, to rail at the scientific attainments of our officers... arms, like any occupation, requires to be studied before it can be understood, and from those things, to which he had called his attention, he will learn the power and advantages of military science.¹⁶⁰

This newly won sense of military honor and the potency of arms enormously increased Army morale and confidence. The final verdict on the effectiveness of the Army in transforming itself into a proper military service was best rendered by Captain Mahan, the United States' foremost military theorist of the Antebellum era. The West Point professor praised the achievements of the professional Army he had labored so long to create:

Of all the civilized states of Christendom, we are perhaps the least military, though not behind the foremost as a warlike one. A sounder era, however, is dawning upon us.... It was reserved for the expedition to Vera-Cruz, and its sequel, Cerro-Gordo, to bring into strong relief the fact, that we were unostentatiously, and almost silently becoming a powerful military state. The lesson will not be lost upon our neighbors, however slowly we, in the end, may profit by it. A shout has gone forth from the Rio-Grande, and the shores of the Gulf of Mexico, which heard on the Thames and the Seine, has resounded along the far-off shores of the Baltic and the Black Sea, and will reach farther Id., bearing with it a significance that no prudent statesman will hereafter affect to misunderstand. What are the military resources of this great republic is no longer a question; a more thorough organization is alone wanting for their complete development.161

Chapter IV

JEFFERSON DAVIS, THE 1856 MILITARY COMMISSION TO EUROPE AND THE MINIE BULLET RIFLE: THE REAFFIRMATION OF THE FRENCH-AUSTRIAN SCHOOL IN AN ERA OF TECHNOLOGICAL AND SOCIAL CHANGE

Part I

The clear victory for military professionalism won by the United States Army in Mexico was translated into tangible gains for the nation's military service in 1853. Congress, at the request of President Franklin Pierce's newly inaugurated administration, approved the largest single increase in Army strength since the War of 1812. In addition to four infantry regiments, two new mounted units were added to the Army's order of battle, the First and Second Cavalry Regiments. Numerically, the strength of the Army expanded from approximately eleven thousand men to over sixteen thousand. For the first time since the War of 1812 the United States Army possessed sufficient numbers of troops to free it from dependence upon the militia save in the largest of conflicts. While the Army was still "inferior to the best armies of Europe," according to the former Secretary of War Joel Poinsett, the 1855 expansion signaled a new era enhanced military effectiveness as well

as new political enthusiasm for military professionalism.¹ In a very clear fashion the nation's political leadership, at least for the moment, had conceded Poinsett's conclusion:

...that no nation, whatever may be its resources and money, can long carry on an aggressive war with volunteer forces, or with a majority of its troops composed of volunteers who have, for the most part, to be drilled and disciplined in the presence of the enemy.²

Succeeding John C. Calhoun as the leading political advocate of a professional military service, was the new Secretary of War, Jefferson Davis. An 1828 graduate of West Point, Davis had soldiered some seven years with both the infantry and the First Dragoons on the western frontier. In the Mexican War, Davis had served with distinction as commander of the volunteer Mississippi Rifles. Davis was an ardent and influential proponent of the regular Army and of military professionalism. A student of military theory and history, Davis's personal philosophy of the art of war was totally Jominean and French-Austrian in character. In his 1854 Report as Secretary of War, Davis succinctly expressed his faith in military professionalism when he formally attacked the opponents of the regular military establish-"It has been stated... that if in 1831 a small ment: mounted force had been at the disposal of the War Department, the Black Hawk War might have been prevented; and ... in 1835, if a few additional companies had been sent to Florida, the Seminole War would have not occurred."3

Under Davis's exceptionally effective administration, numerous significant improvements were made in Army weaponry, force structure and its preparation to wage war against a European would-be adversary. Davis compelled adoption of the 1856-pattern Springfield Rifle of the new Minie bullet type over the strong objections of some senior officers. To accompany this new weapon, a major revision in the infantry manual was authorized by Davis. Moreover, the first pay raises in twenty years were authorized as well as the introduction of a more modern and spiffier uniform, both items aiding the general uplift in the morale of the Army. Fortress design was overhauled as well, during Davis's tenure as Secretary of War, to bring American practice in line with the latest European advances. One of Davis's more whimsical experiments consisted of the formation of a camel corps, patterned on French Algerian experience, for patrol duty in the Southwest.

The establishment of the first American regular units to bear the designation cavalry, complete with the revived use of yellow facings and stripes on their uniforms, was also undertaken in these years. The first and Second Cavalry Regiments were the personal favorites of Davis, and were intended to be elite units. Granted that the less dashing Corps of Engineers and the Corps of Topographical Engineers ranked at the top of the list of career positions and that the cavalry was at the bottom. Yet the tradi-

tional, aristocratic lure of gallant troopers and powerful steeds, as well as Davis's personal involvement in the selection of officers for these regiments, led many promising men to join these units. Moreover, there was a distinct Southern bias to the officers of these two regi-Officers such as Lieutenant-Colonel Joseph E. ments. Johnson (general CSA), Captain George B. McClellan (general USA), Lieutenant George H. Stuart (general CSA) and Lieutenant James E. Stuart (general CSA) were among the staff of the First Regiment; the Second, in turn, included in its ranks such future luminaries as Colonel Albert Sidney Johnston (general CSA), Lieutenant-Colonel William J. Hardee (general CSA), Captain George E. Stoneman (general USA) and Lieutenant Fitzhugh Lee (general CSA). The predominance of Southern officers in these regiments would later serve as "evidence", during the Civil War, that Davis was in league with some fiendish cabal to create surreptitiously a future confederate mounted service.⁴

The immediate tactical role of the First and Second Cavalry lay in conventional Indian control duty in the Southwest and Texas. These two new regiments, plus the additional infantry units and the camel corps were the operational component of Davis's new, so-called desert plan of pacifying the western frontier. Patterned after Marshal Thomas-Robert Bugeaud's brilliant plan for the French conquest of the Algerian interior, Davis's new program for

suppressing Indian hostilities was intended to correct many of the deficiencies in the Army's earlier stratagem of frontier control. The cornerstone of the great desert plan was the abandonment of numerous small garrisons and the concentration of the Army's troops in large, strategically located forts. The problems of morale, isolation and poor logistiical support were simultaneously dealt with by setting major Army garrisons near towns, and on major water transport routes near the edges of the western frontier. The addition to the Army's mounted resources was of vital importance; the desert plan required extensive patrolling and swift and efficient retaliatory action for Indian incursions. This new plan was thus the final abandonment of the static defense system implemented in the immediate post-War of 1812 years, during Jacob Brown's tenure as Commanding General. In turn, the great desert plan would serve as the foundation of the Army's Indian control policy for the remainder of the century.⁵ On the higher level of Army planning and organization, the First and Second Cavalry conformed closer, in theory at least, to European mounted warfare doctrine than had the earlier dragoon regiments. As a former cavalryman, Davis penned an authoritative and informed explanation of the organizational nature of the new mounted regiments and in turn, a withering criticism of earlier Congressional interference in internal War Department and Army matters, as to the composition, mission and equipment of horse units.

The cavalry force of our army being all required for active service of the same kind, there appears no propriety in making a permanent distinction in the designation and armament of the several regiments; it is therefore, proposed to place all the regiments on the same footing in these respects, and to leave it in the power of the executive to arm and equip them in the manner as may be required by the nature of the service in which they be employed.⁶

Davis's policy statement as to the nature of the new cavalry regiments and his sharp rebuke of Congressional involvement, as for example in the mounted rifles, in internal Army matters, had several aspects. The emphasis on unit rationalization into a few specific types (which for the Army's horse units was finally achieved in 1861 when Congress formally redesignated them all as cavalry) was clearly one of Davis's objectives. The specific form of the First and Second Cavalry as all-purpose mounted units, as opposed to being light, heavy or dragoon, was not however intended to improve the effectiveness of the Army's horse soldiers in Indian fighting. As with both the mounted rifles and dragoons, the cavalry followed the usual dismounted, informal tactics of Indian fighting. The emphasis on utility reflected, instead, the then latest fad in Europeanstyle cavalry units. Recall the debate between the proponents of heavy and light cavalry over first, which types of mounted units would be required in future hostilities, and secondly, whether advances in firepower rendered the cuirassiers and thus the use of shock as being

obsolete. This rather lively debate peaked late in the 1860s, when cavalry traditionalism reasserted itself. Thus the organizational character of the First and Second Cavalry reflected the perspective of those cavalry experts championing flexibility over tradition; mounted units which could effectively serve all three roles as light, heavy, and dragoons.⁷

On a broader level, that of national war policy, Davis's viewpoint was representative of the new, assertive sense of professionalism then being articulated by the officer corps. The growing sense of group identification among members of the officer corps was strongly articulated by Davis in direct criticism of Congress of overstepping its authority when it had involved itself directly in determining internal military policy matters, such as weapon types or uniform design, which properly were within the jurisdiction of the War Department and the executive branch. In this respect, Davis vocalized a far more direct and pungent critique of Congressional encroachment onto the authority of the executive branch in determining the particulars of national military policy than had earlier been expressed by The officer corps' new influence was the result of Calhoun. Calhoun's administrative reforms, the bureau system, which was thus beginning to assert itself in military policy formation. Thus, through the bureau's superior knowledge of military matters, the determination of the particulars of

Army equipment and organization, swung almost permanently to the executive branch. 8

Part II

The 1850s background to Davis's Army reforms constituted an era of considerable change in not only military affairs, but also technology and society as well. On the broadest level were major changes in the nature, quality and quantity, of economic output. The enormous increase in the production of iron and the emergence of highly efficient steel manufacturing processes resulted in immediate changes in the nature of weapons production. The use of steel not only allowed for considerably higher levels of weapon performance, but also facilitated standardized and easily repairable machined parts which significantly reduced the costs, in both time and money, entailed in the manufacture of arms. Artillery, for example, was virtually reborn as a weapon system. No longer were clumsy reinforcing bands needed around the muzzle; unit construction permitted the use of much stronger charges of powder, hence greater range and the use of larger and more potent projectiles.⁹ The development of mechanized, factory assembly lines for the production of weapons, allowed for unheard of speed in equipping large numbers of troops with the tools of war.¹⁰ The railroad worked to dramatically multiply the quantities of goods and men which could be moved from one area to The speed of army movement, as regards the number another.

of miles per day, escalated from a maximum of sixty to eighty miles by forced march to between one hundred and two hundred and fifty by rail. And a unit transported by rail suffered none of the debilitating effects to unit efficiency and fighting power which followed a forced march.¹¹ Steam power also revolutionized ocean transportation. Ships were no longer captive to the currents and winds, sailing times dropped by as much as half and the size of cargos expanded. Steel in turn was being employed in the construction of larger, faster and more durable vessels than had heretofore been possible.¹² Communications were transformed as well, due to the invention of the telegraph. For the first time in history, senior army commanders could immediately and effectively direct military formations dispersed over distances of hundreds of miles.¹³

These new technologies were known to military leaders; the problem, however, was a lack of perception of how deep the impact would be on the practices of war. Moreover, except for the Prussians and their centralized staff command system, no army of this period possessed one central body to oversee and manage significant technological change. The series of innovations, which converged into a new industrial order in the 1850s, was not, however, without precedent. The agricultural revolution had by the end of the Eighteenth Century caused an enormous increase in fodder and food production. Consequently, there was a dramatic increase in the ability of nations, during the Napoleonic Wars, to support armies of unprecedented size, hundreds of thousands in number, without the massive damage, as in the previous Thirty Years War, to the agrarian resources of those countries.¹⁴ Similarly, the considerable improvement in road construction in conjunction with the widespread building of canals had significantly increased the mobility of armies and the capacity of logistic nets during these wars. Furthermore, the enormous increase in army size and the corresponding growth in mobility occasioned the development out of the quartermasters corps the first general staffs in European military history.¹⁵

The most immediate effect on military theory and planning lay in the field of artillery improvement. The 1850s seemed to be the beginning of a new era in military tactics in which artillery would finally come to dominate The Queen of Battle only began to assert the battlefield. herself as a dominant weapon during the Napoleonic Wars, as the French Imperial Army, saddled with ever more poorly trained soldiers, shifted the tactical emphasis of battle from the bayonet to the cannon. The new iron and steel rifled cannon of this era could throw a shell the astounding distance of over two thousand yards compared to the rather feeble eight hundred or so of the smoothbores. Accuracy was greatly improved as well, with the introduction of the new weapons. The enthusiasm of the artillerists was in no way

dampened by the then little-understood fact that there was no way of directing long range cannon fire on land. Traditionally, smoothbore guns, characterized by relatively long range and flat trajectory, were unlimbered close to the forward edge of battle to be used as scatterguns. Such weapons could be directed very effectively against line-ofsight targets such as fortresses. Except for a small number of howitzers, featuring short range and high angle fire, little attempt was made to deliver indirect fire on enemy troops shielded by protective cover or to direct counter battery fire against enemy artillery. The problem lay in being able to observe the enemy's positions without the obstructions of smoke and obstacles and in turn being able to communicate quickly this information to the gunners. Artillerists for the previous three hundred or so years had developed their art on the basic premise that their target would be visible; the difficulty was therefore how to develop a system of indirect fire control by forward observers, with more effective field communication methods than flags, bugle calls or messengers, and in turn, having the gunners accurately deliver fire out of sight of and miles from their target. At sea, in contrast, with wide expanses of flat, open water, long range fire was not only possible but was in fact, standard for naval gunnery by the mid 1850s.16

The aspect of the new arms technology which would have the most immediate impact was the less impressive but vastly improved rifled musket. For one hundred and fifty years the primary weapon of the infantry had been the smoothbore musket of .54 to .75 caliber, firing a lead ball three guarters of an inch or so in diameter, weighing nine to twelve pounds and some eleven feet in length. Between forty and fifty yards, the smoothbore musket was a truly terrifying weapon. The hail of lead generated by a line of musketeers at this range hit with the impact of a huge shotgun, inflicting fearsome casualties. At greater distances, however, effectiveness greatly declined. One British ordnance expert, Colonel Henger, in 1814, expressed quite well the widely understood limitations of the smoothbore musket when he stated:

A soldier's musket, if not exceedingly ilbored ((sic.)) as many are, will strike the figure of a man at 80 yards... but a soldier must be very unfortunate indeed who shall be wounded by a common musket at 150 yards, provided his antagonist aims, and as for firing at 200 yards you might as well fire at the moon.¹⁷

As with all smoothbore weapons, the ball once fired, followed a trajectory that soon became excessively curved and erratic. Consequently, therefore, this severely limited the range of these weapons. Moreover, a smoothbore musket with an attached bayonet could not even be aimed. There were no rear sights and the primitive front sight (usually no more than a small knob of metal at the end of the barrel) was completely obscured by the bayonet socket ring. Accuracy of this weapon was therefore minimal; only an average of between 0.2 to 0.5 percent of all rounds discharged per engagement, or about one out of every thousand or so, actually registered a hit. In effect, therefore, in order to kill a man in an attacking infantry column, one had to fire up to seven times an average man's weight in lead Hence, in order to maximize infantry firepower, the balls. troops of the line were arrayed in tight, compact formations and ruthlessly trained to function like well-programmed automatons. The weapon itself possessed many possible dangers to the soldier using it. The flash of the ignition powder in the pan of the weapon not only obscured vision, it could, on occasion, even blind a man. Slight variations in the quality of powder could cause significant changes in the force of the recoil or even cause the weapon to explode. Frequently, in the heat and confusion of battle, men forgot if the weapon had in fact been discharged, reloaded and in turn caused the double or even triple loading of the piece, the excess charges causing the weapon to explode. And if a soldier were a mere foot ahead of the firing line, his eardrums would be instantly ruptured by the discharge of a volley. Furthermore, the soldiers had to move in formation, to within one hundred yards of the enemy before fire was normally commenced, exposing themselves to the full weight of a counter volley. Infantrymen, first and foremost, had

to be experienced and highly disciplined for Eighteenth Century tactics to work. For men to stand fire under such circumstances and in turn to be calmly able to receive the still more frightening bayonet charge, when they were dispassionate mercenaries, frequently dragooned into service, demanded the most brutal of corporal punishment. Consequently, the terror of being caught as a deserter had to outweigh the risk of staying in formation.

From a design standpoint, the smoothbore had other significant failings as a weapon. The exposed panner meant it could not be used in inclement weather. And it was unreliable as well; out of an average 6,000 rounds fired from flintlocks, there were an average of 922 misfires or one in each six and a half rounds discharged.¹⁸ There were, however, no better weapons available to European-style Tactically the one hundred and sixty years prior to armies. the Civil War can be defined as a process of experimentation and refinement, of finding the best means of making do with the smoothbore in battle. Volley fire was expressly devised so as to concentrate the greatest number of projectiles at a The fundamental principles of effective specific target. volley fire were well described by Eighteenth Century military writer, Bland Humphrey, an accounting which would remain valid through the Civil War:

Draw your enemy's fire if you can, and if your battalion still advances you must win...it being certain that when troops see others advance, and going to pour in their fire amongst them when

theirs is gone, they will immediately give way, or at least it seldom happens otherwise.19

The solution to the numerous and manifest deficiencies of the smoothbore musket lay in the development of the military rifle, "the most formidable description of small fire-arms yet known," according to Lieutenant Richard Nicholson Magrath of the British Army.20 The problems in making the rifle a truly practical replacement for the smoothbore musket, were, however, complex and extremely technical.

The rifle had been in use, principally as a sporting weapon, since the early Sixteenth Century. The distinctive grooves (or rifling) carved into the interior sides of the barrel, served to give the rifle ball greater velocity and The result was a considerable higher angle of trajectory. improvement in both accuracy and range relative to the smoothbore musket. The famed Kentucky or Pennsylvania rifle of Davy Crockett was accurate up to four hundred yards while the British Baker rifle, used in the Peninsular Campaign (by the rifle brigade) could do work up to three hundred yards. Mass use of rifles by armies, however, was simply not The overriding technical problem was the slowness feasible. of reloading the weapon. Whereas a smoothbore musket, in the hands of an average infantryman, could be fired at the rate of three or four rounds per minute, the rifle, at best, could be discharged no more than once very two minutes. The difficulty in reloading the rifle arose from the fact that

the soft lead ball had to be forcibly rammed down the The rifling, to which the ball was forced to barrel. conform by use of the ramrod and thus causing the characteristic spin of the projectile when fired, worked, however, as well, to obstruct passage of the round down the barrel. In fact, it was not uncommon for riflemen to resort to the use of hammers to pound the ramrod home when the ball became stuck in the barrel. A second major problem with most rifles was that a bayonet could not be attached. The dangerous combination of an exceeding slow rate of fire and the lack of a bayonet caused the rifle to be loathed by most infantrymen. Still another major failing of the rifle lay in the poor fit between the rifling and the ball (since both were handmade, no standardization was possible, further imperiling performance). This resulted in the gas created by the ignition of the powder charge being able to escape, reducing velocity and range, and in turn causing the weapon to foul far faster than a musket. Thus, after the discharge of only a few rounds, the barrel became so obstructed as to cause a sharp decline in range. The combination of technical problems, the active hostility toward the rifle by most line soldiers and the resulting need for highly trained and quite expensive specialized units to use this weapon properly, worked against the wider employment of the rifle as a combat weapons.21

The first major technological improvement in infantry weaponry since the development of the flintlock musketbayonet combination was the invention of the fulminate of mercury percussion cap. In 1807 Reverend Alexander Forsyth of Scotland patented use of this substance as the starter charger for the musket; permitting the detonation of primary charge by striking instead of by ignition. Only in the 1830s, however, was a practical means found to package the fulminate of mercury. The use of an enclosed copper cap containing a small amount of this material allowed for the first practical use of muskets in rainy weather since no powder was exposed to the elements. Variously invented by any number of persons, including the celebrated British gunsmith firm of Montan, Egg and Purdy, by Colonel Hawken and by Joshua Shaw, a British artist resident in Philadelphia as early as 1814, the percussion cap dramatically reduced the number of misfires and thereby improved accuracy or at least combat effectiveness. For every one thousand rounds fired, the number of misfires fell from four hundred and eleven to four and a half and the number of hits rose from an average of two hundred and twenty to three hundred and eighty-five. Adoption of the percussion cap by military services was, in spite of its clear superiority, exceedingly In part this was a function of cost, the expense of slow. converting existing weapons to the new system; in part, the traditional conservatism of ordnance bureaus and, in part,

the organizational gulf between line officers and staff weapon-experts. The United States, for example, only ordered the complete change-over to the percussion cap in 1848 and then, at a virtual snail's pace. While percussion cap was a significant improvement in the capability of the smoothbore musket it did not, however, solve the major problems of limited range and accuracy.²²

The key to any successful improvement in the rifle lay in the development of a practical cylindro-conical or oblong bullet, to overcome the problem of slow loading time for this weapon. Various experimenters, both military and civilian, labored on a solution. The ideal form of such a new rifle would have been a breechloader, provided that some form of effective sealer could be applied to the breech to prevent escape of propellant gasses. Only Prussia aggressively moved to develop a breechloader as its primary service weapon. The famed Prussian needlegun, perfected in the 1840s but only issued to line troops in 1851 for security reasons, was the first massed-produced military The weapon, however, was far too heavy as was its rifle. projectile, which due to a vastly higher rate of fire, created severe problems, for the first time, of ammunition Nonetheless, the needlegun possessed an excellent supply. effective range of eight hundred yards and like all breech loaders, and quite unlike the smoothbore musket, could be reloaded from the prone position.²³ The United States Army

flirted with the use of the Halls rifle and carbine for some forty years prior to the Civil War. Despite the weapon's clear superiority in official ordnance tests and the enthusiasm of most line officers who came into contact with the Halls weapons, the Ordnance Bureau steadfastly refused to authorize large scale production of this firearm.²⁴ Two principal objections were marshaled by traditional ordnance experts against the breechloaders; first was the issue of whether such a weapon could bear up in the field, in the hands of poorly educated soldiers. It was feared that, "No breach-loading weapon can stand the wear and tear of a campaign, and the careless and awkward usage of the soldier."²⁵

The second objection was drawn from tradition and the use of the flintlock musket for the previous one hundred and fifty years:

If by breach-loading... it was possible to fire ten or twenty times a minute, the result would be a great increase in noise and smoke, with no more effect [than a smoothbore musket].²⁶

The combination of military and fiscal conservatism forced most inventors to follow the so-called French-Belgium solution: using the existing format of the musket to make a better rifle. The culmination of these labors was the inaccurately labeled Minie "ball" rifle. The technological breakthrough of Captain Claude Etienne Minie, of the French Army, was the use of a pillar in the breech of a muzzle loading rifle. This device was driven by the force of the

detonation of the percussion cap into the base of the bullet so that it would cause the latter to expand into the grooves of the rifling. In turn a cup was placed at the base of the bullet which the pillar struck; it was this cup, in conjunction with the discharge of gas from the powder explosion, instead of the earlier method of ramming, which forced the projectile into the rifle grooves. The United States Ordnance Bureau quickly devised a superior version of the new Minie-bullet. The improved projectile used a steel stem or lige, attached to the base of the bullet, which worked "as a wedge to spread out the ball" and thereby causing it to assume the shape of the rifling when fired.²⁷ The key advantage was a greater conformity of bullet to rifling and a corresponding reduction in the loss of propellant gas. The effectiveness of these new weapons was astonishing. Clearly, as Captain Emric Szabad pointed out, "the new firearms present...a most formidable apparatus of destruction, both from their precision and wide range...."28 Effective range mushroomed from sixty or one hundred yards to eight hundred or more; reasonably skilled shooters were assured good accuracy with some models up to thirteen hundred yards. Furthermore, the use of pre-packaged paper cartridges (to be replaced in only fifteen years by the modern projectile-propellant enclosed bullet) served to increase the speed of reloading the weapon. Therefore, as

many as twelve rounds could be fired a minute. And it could be used under almost all weather conditions.²⁹

The basic tactics of battle, as practiced by armies on both sides of the Atlantic, in the years prior to the Civil War, as succinctly described by General Henry Halleck in 1861 were based on the technological limitations of smoothbore weaponry.

The attack is first opened by a cannonade, light troops are sent forward to annoy the infantry, and if possible, to pick off his artillerists. The main body then advances into lines ((i.e., deployment from column to linear formation)); the first displays itself in line as it arrives nearly within range of grapeshot ((about 200 yards)); the second line remains in columns of attack formed in battalions by division at a distance from the first sufficient to be beyond the reach of the enemy's musketry, but near enough to support the first line or cover it if driven back. The artillery, in the meantime, concentrates its fire on some weak point to open a way for the reserve which rushes into the opening and takes the enemy in the flanks and rear. The cavalry charges at the opportune moment on the flank of the enemy's columns or penetrates an opening in his line, and cutting to pieces his staggered troops, forces them into retreat, and completes the victory. During this time the whole line of the enemy should be kept occupied as to prevent fresh troops from being concentrated on the threatened point.³⁰

The impact of the Minie-bullet rifle and its progeny on conventional, post-Napoleonic tactics was in time to be devastating and even world shattering. Over a century of carefully thought-out military theory and hard-earned experience was effectively rendered obsolete. Shock tactics, relying on cold steel, no longer made sense. Formerly, infantry could safely approach to within one hundred and fifty yards of an enemy's line before coming under effective fire from their adversaries. Smoothbore cannon, particularly of the horse artillery variety, could no longer gallop up to within three hundred yards of opposing infantry and provide direct fire support in relative safety. Their gunners now would be easily picked off by ordinary soldiers armed with the new rifles long before their pieces could be unlimbered, let alone brought Moreover, even medium and heavy smoothbore into action. cannon, with effective ranges of no more than eight hundred yards, were well within the range of trained snipers armed with the new rifles. Cavalry charges were rendered vir-Infantry fire, from entrenched field tually useless. positions, would annihilate mounted units long before they could successfully close with their adversaries. While such difficult and harrowing facts were to be stumbled upon in time by the military services of the United States and Europe, the awesome reality of just what the new rifle could in fact achieve was, in the 1850s, largely understood only by a handful of ordnance officers. One such officer, Captain Camdus Wilcox of the United States Army, in 1859 described the startling effectiveness of the new rifles:

In service use of the improved rifle it may be confidently asserted that battles will be more destructive than formerly, a greater number of balls will take effect, it will be difficult for the solider to find himself in the presence of the enemy, and... [resulting] fire beyond the range of his present piece.³¹ Formerly, the position of the enemy could be approached to within 300 yards without experiencing much loss from the fire of the infantry. Now this fire is destructive at 1000 or 1200 yards, and well directed at 600 yards becomes irresistible. The range of the rifle, permitting battles to commence at considerable distances without great care on the part of the general, his whole line may become exposed at once to a destructive fire, the position assigned to troops not immediately engaged will require as much attention as those that are engaged.³²

Insofar as the cavalry was concerned, the effect would be to foreclose the effectiveness of shock tactics:

Formerly, cavalry could take as its position in columns of squadrons in full view of the infantry to be charged, at a distance of 40 yards, and could approach within 300 yards without experiencing much loss. At this distance it moved against ((the)) infantry, first at a trot, then gallop, and finally at full speed.... Even with the smoothbore musket, the cavalry charge against infantry, to be made with a probability of success, had to be in general proceeded by the fire of artillery; or the infantry must have been already exhausted or demoralized from its contest with other arms.... Under the existing conditions of the infantry armament, cavalry will be within its sphere of action at 1200 or more yards, and as it approaches nearer, the fire will become more and more destructive. 33

The foundation of Captain Wilcox's conclusion was a series of ordnance tests, first undertaken in Great Britain and later duplicated by every leading power, including the United States, with the new infantry arms. The 1855 and 1856 Hythe trials were conducted with the new English Enfield rifled musket, with which, according to Captain Sazaband, "a tolerably good rifleman will now fire with effect at 600... ((to)) 800 yards."³⁴ The 1855 test pitted twenty-seven infantrymen against a theoretical infantry column, firing of the guns being carried out at five hundred and fifty yards (or the tail of the column) and at two hundred and twenty yards (the head). Within four minutes the infantrymen had succeeded in decimating their imaginary foes under fairly realistic battle conditions. And in 1856 a similar test was conducted against a theoretical artillery battery at a distance of eight hundred and ten yards, resulting in complete destruction of the unit in only three These tests were clearly devastating in their minutes. results on the effectiveness of conventional tactics. They were also either ignored or even incomprehensible to most military leaders. Firing at targets was one thing; firing at real adversaries, capable of returning fire was another. Moreover, there were significant problems of perception as regards the meaning of the term "firepower". The criticism of the breechloader, regardless of whether it was capable of being fired ten or twenty times that of a musket, stated above, was characteristic of most military thinking of this The comprehension of officers as to the effect of period. concentrated fire was expressed usually as the weight of the volley or the number of projectiles discharged. What was absent was any real understanding of the effect of multiplying the rate of discharge and thus creating zones of fire. Precisely the same lack of comprehension blocked the later adoption of the machine gun, in large numbers, prior to World War I.35

The great master of the French-Austrian school of War, Baron de Jomini, initially examined the weaponry with trepidation, as to the potentially grave consequences on the process of military science in civilizing warfare:

The means of destruction are approaching the perfection with frightful rapidity. The Congreve rockets...the shrapnel howitzers, which can throw a stream of canister as far as the range of a bullet, will multiply the chances of destruction, as though the hecatombs of Eylau, Borodino, Leipzig, and Waterloo were not sufficient to decimate the European races.³⁶

In its first, limited employment in the Crimean War of 1856, the Minie-bullet rifle's impact was largely negligible. And in the 1859 War of Italian Unification, the French trounced the Austrians with the bayonet, instead of exploiting the capabilities of their new rifles. Jomini, along with most other officers, concluded that there would in fact be no telling affect on battle as a result of the new weapons:

The improvements in firearms will not introduce any important change in the manner of taking troops into battle, but that it would be useful to introduce into tactics of infantry the formation of columns by companies, and to have a numerous body of good riflemen or skirmishers, and to exercise the troops considerably in firing.³⁷

Thus there would be little direct affect on tactics by the Minie-bullet rifle, save for a slight increase in the importance of sniper fire. The formal response of the United States Army to the Minie-bullet rifle was the issuance of a new manual of infantry tactics. Major William Hardee, at the direction of Secretary or War Davis, undertook a limited revision of General Scott's translation of the official 1836 French manual of infantry tactics. The changes introduced by Hardee were relatively minor. Of note were the introduction of two new commands for the movement of infantry; the double quick time (ninety steps per minute) and the run (120 steps per minute). The greater exertions required for these evolutions earned Hardee's tactics the sarcastic label of a "Shanghai fire drill" from both officers and soldiers.³⁸ In part, the lack of substantial change in infantry tactics was due to the problem of controlling troops in battle. In the heat of combat and the general din of war, auditory signal devices such as drums and bugles were largely useless. Alternative methods such as runners, flags or heliographs were equally unsuccessful.39 Thus, prior to the development of the radio, small unit tactics as practiced today were highly impractical; troops command was still premised on the Frederickian concept of soldiers as mercenary robots. Loss of control over individual units, it was thus feared, would result in wholesale desertion while under fire.40

On a deeper level than the mere technical aspects of infantry tactics, were the powerful restraints of tradition and experience of aristocratically oriented armies. Thus Jomini, with complete confidence, could conclude that in the end, regardless of the greater lethality of the Minie-

bullet rifle, orthodoxy would prevail, as before, on the battlefield:

In spite of the improvements of firearms, two armies in battle will not pass the day in firing at each other from a distance; it will always be necessary for one of them to advance to the attack of the other.

That victory may with much certainty be expected by the party taking the offense when the general in command possesses the talent of taking his troops into action in good order and of boldly attacking the enemy, adopting the spirit and quality of troops...to his own character.⁴¹

Fundamentally, therefore, understanding of just how potent the impact of the new rifle could be on orthodox tactics was lacking among most officers of this period. Simply put, it meant comprehending the fact that the new weapon had more than twice the rate of fire of the old one, with at least six times the effective range, which could be used in all weather conditions and was machine built, at very little expense and in vastly greater numbers than its Granted that the actual range at which most predecessor. soldiers could be reasonably expected to aim and hit a target was about two to four hundred yards, yet the very fact that a common infantryman could now actually pinpoint his fire at such a range was still a great change from the old smoothbore musket.42 An even greater problem of perception for traditional military leaders involved the concept of firepower, of the effect of the rapid discharge of many weapons in a confined space. Thus, for example, the quite typical assessment of Dutch cavalry officer J. Roemer,

a traditionalist in the field of mounted warfare doctrine, of the general lack of impact of the new rifles on battle tactics:

Infantry must...depend wholly on its fire, it has time to deliver only two volleys and these with largely the power to cripple every sixth horse. Experience shows that the effect of musketry is very trifling at more than three hundred yards and within this distance it is not prudent to try more than two discharges ((i.e., before the cavalry descended upon the infantry's position.43

As late as 1868, after making a thorough study of the American Civil War, Lieutenant-Colonel George T. Denison, of the Canadian Army and one of the most progressive and reform-minded cavalry officers of his day, could just as easily misgauge the impact of the rifled musket on mounted tactics:

From 800 to 400 yards cavalry can advance at the trot in about one minute and a quarter. In that time some six or seven shots may be fired, but practically with no effect, the rapidly changing distances, the difficulties of guessing the proper elevation to strike a moving body, the necessity of having the sights accurate, will do away with much danger from these shots. From 400 to 100 yards--300 yards at a gallop will take half a minute, two shots can be fired in this time, leaving one for the last hundred yards, which can be run over in ten seconds.⁴⁴

The problem with these calculations is that they lacked understanding of the impact of volume of fire. A single rank formation of a cavalry company covered some three hundred yards. For two minutes or so it could be expected to be under concentrated infantry fire, from say an infantry company. Assuming a reasonable rate of fire of six rounds per minute, a total as high as twelve hundred projectiles would be placed into those three hundred yards occupied by two hundred men and an equal number of horses. In turn, a bullet, when fired, travels at a speed of between eight hundred and five thousand feet per second, far faster than any horse. The resulting zone of fire would be such as to destroy the cavalry company or at least render it <u>hors du</u> <u>combat</u>. Moreover, the infantry would be deployed in the protective square formation or, as was increasingly the fashion, entrenched or positioned between defensive cover, further reducing the cavalry's potential effectiveness.

Aside from the lack of understanding of the effect of tremendously increased firepower, there were other intellectual problems associated with the adaptation by Nineteenth Century armies to these new weapons. Take for example the deceptively simple problem of how to train a soldier to "aim" his weapon. The basic pattern of using small arms of military purposes had been by volley. With an attached bayonet it was simply not possible to line the barrel of the piece with a desired target. Secondly, the very limited range of the smoothbore musket ruled out the use of long range fire. Finally, the paramount emphasis in infantry tactics on shock and the use of cold steel, reduced engagement of foot soldiers to short range, hand-to-hand engagements. Targeting a firearm was a matter left to the sportsmen and the hunter; many European light infantry units, in fact, were, as in the case of German jaegers, former woodsmen recruited for their superior marksmanship. Soldiers were almost never given any instruction in how to direct their fire accurately. Since the infantry fire had been, for several centuries (at least as far back as the Fifteenth Century and the decline of the crossbow) equivalent to the scatterlike fire of a shotgun, there were thus no immediate historical examples of mass aiming of weapons to be drawn upon. Notice the repeated assertions of the authors above that the greater speed of fire would be negated by the inability of the soldier quickly to aim his Putting aside the issue of volume of fire, it is weapon. instructive to understand how a weapon was aimed in this Target weapons featured elaborate sighting systems period. while hunting firearms relied upon the experience of the shooter. Basically, one selected a target, determined range and speed of movement, if applicable, and then carefully sighted and fired. Such methods were necessarily too complex and to slow for use in combat, save by highly specialized soldiers. Only gradually would armies begin to master the techniques by which groups of soldiers could The modern system of speedily identify and hit targets. combat aiming began to be experimented with in the 1860s. Essentially the rifle is treated as an extension of the person, it is thus pointed at the center of the desired targets and the weapon leveled so the bullet will strike about six feet above ground. In effect, therefore, the soldier shoots as if he were making a bayonet thrust. Though some difficulties as directed-firing by troops in battle seemed insurmountable, rendering the superior range of the new rifles useless, a few ballistic experts were already attempting to solve the problem. According to Captain Wilcox, the future promised a revolution in how a common soldier would manipulate his weapon in combat--the shift from volley and bayonet to firepower and controlled shooting:

He will be inspired with more confidence knowing the range and accuracy of his arms. At great distances he will no longer fire by hazard, but will use his elevating ((i.e., aiming)), at short distances, knowing the power of his rifle, he will fire with the utmost coolness, and with a certainty the smoothbore and round ball could never inspire.⁴⁵

The Industrial Revolution was, in addition to profound changes in technology, causing as well, considerable alterations in the composition and orientation of civil society that was to affect greatly the conduct of war. The Minie-bullet rifle was not simply a matter of improved hardware. As the question of aiming shows quite clearly, an intellectual as well as a social revolution in military science and organization was needed to exploit fully the possibilities of the new arms technology. Guilbert, in the 1760s pioneered the column as the solution of the complexities and failings of Eighteenth Century linear tactics. The intellectual breakthrough and in unison as opposed to the earlier method of starting each movement from a fixed point and defining it as an end-to-itself. It was only until the French Revolution and the immediate need to convert untrained citizens into soldiers that Guilbert's concepts could finally be exploited to the fullest and in turn, under Napoleon, destroying the fundamental Eighteenth Century maxim that one army could not destroy another.

Similarly, the basic revision in the science of war made possible by the Minie-bullet rifle was one which required a massive redefinition of military theory and organization, which transcended such relatively mundane matters as increased range or firepower. Rather it offered the immediate end to the Frederickian tradition of soldiers as mere robots. The weapon required the use of looseskirmish-order tactics in place of tight, disciplined formations. Neither exposed linear or column formations, designed to accommodate traditional volley fire and the bayonet charge, were practical against the fire of the Minie-bullet rifle. Even with such modifications as those developed by Hardee to conventional infantry tactics, of increasing the speed of movement, there was simply no way to close with an adversary without suffering massive casualties from his fire. To disperse men on the battlefield, however, demanded considerably more than simple tinkering with the infantry manuals. As shown by the French Revolution, effective soldiers could be trained in Guilbertian tactics

in about eight weeks; the Minie-bullet rifle, in turn, further speeded up training time.

The emergence of large middle class, urban populations and the development of national political culture on both sides of the Atlantic was as well rendering the principles of limited warfare anachronistic. The idea of war fought for limited gain by competitive princes, with small professional mercenary forces was increasingly out of line with mid-Nineteenth Century society; the Crimean War, for example, with popular involvement in the war effort by ordinary citizens and coverage in the newspapers was a portent of still greater change. The new style of tactics would require a willingness to trust the initiative of individual soldiers. Men would thus have to be led, not driven into battle, and non-commissioned officers would have to be redefined from brutal task masters to team leaders. The armies of the trans-Atlantic military community, save for Prussia, however, continued to plan and wage war as it had been done for the previous one hundred and fifty years.46

Part III

The 1850s were in the United States, as well as in Europe, an era in which change in the military arts was beginning to be officially analyzed. Two major technological advancements, steam powered ships and the new rifled naval artillery threatened at once to sweep aside the twin

pillars of the Calhoun-national war policy. For the previous forty years the basic war-planning assumption of the Army had been that a minimum of three months was necessary for a European power to transport and deploy an initial invasion force; that in turn, sail powered ships could not support a force much larger than fifty thousand men for any extended period of time; and that the nation's masonry seacoast fortresses could withstand naval bombardment long enough for reinforcements to arrive. Thus. the army would have sufficient time to enlarge its forces and in turn be ready to meet a European invader. By the 1850s, none of these assumptions were valid. Steam powered ships could carry tens of thousands of men in a matter of weeks to America's shores and in turn, effectively supply them. The naval rifled cannon rendered America's coastal fortresses useless; they could now be demolished in a matter of hours, as opposed to weeks in the past. And the army was now saddled with a vastly greater country to defend, in regards to total area, including the two sea coasts.

In order to bring American military doctrine and practices in line with the latest breakthroughs in the science of war, Secretary of War Davis, in 1856, arranged for a military commission to undertake a grand inspection of the leading armies of the day. Moreover, the then on-going Crimean War offered a splendid chance to view the new hardware and doctrines of war in operation and in turn, allow the army to gather invaluable field data on the fighting capabilities of potential enemies. The officers selected for this Commission were Majors Richard Delafield and Albert Mordecai and Captain George Brinton McClellan.47 The first two officers were noted experts in their respected areas of military science (Delafield, fortifications; Mordecai, artillery), both were senior West Point professors and in their fifties. The third member of the Commission, Captain McClellan, was the representative of the mounted arm, a line officer with the First Cavalry (although his corps affiliation was with the Engineers) and barely thirty. McClellan was by no means an elder and accomplished officer in his supposed area of specialization; in fact, he had been in the saddle, as it were, for less than a year. Rather this plum was awarded to him as recognition that he was one of the most promising and gifted young officers in the Army.48 The composition of the Commission reflected the War Department's concern that rifled artillery had rendered the nation's seacoast defense system ineffective. Delafield and Mordecai had strong engineering backgrounds, equipping them to understand collateral military advances such as steampowered ships. The assignment of a would-be cavalry officer to the Commission reflected Davis's personal bias toward the The absence of any representative of the King of cavalry. Battle, the infantry, was characteristic of the general lack of interest or understanding of the Minnie bullet's considerable impact on orthodox tactics.⁴⁹

The Commission toured the principal Crimean battlefields, although most of the fighting was over by the time The Crimean War had been largely they landed in Russia. traditional in the military technology used by both sides and even more so in the tactics. Most innovations that were tried out in this war--rifled naval artillery and steam powered ships (the Minie-bullet rifle was in limited use with French and British troops, who, however, continued to employ traditional tactics) among others--had little direct bearing on the battlefield as such. Yet the crippling failures of logistics of the British Army demonstrated the need for greater improvements in military organization and logistics.⁵⁰ The military theorists of the day, while noting the interesting new developments in the tools of war, generally defined the Crimean War as unrepresentative of future wars. Jomini expressed this position quite aptly when he wrote:

This...contest between two vast entrenched camps, occupied by entire armies...is an event without precedent, which will have no equal in the future, for the circumstances which produced it cannot occur again. Moreover, this contest cannot influence in any respect the great combinations of war, or even the tactics of battle.51

Yet the Crimean War did, as one of the last, traditional examples of Eighteenth Century war, herald the beginnings of a significant alteration in the nature of war occasioned by the first arms race in history and by the effects of social and political change on the conduct of war.52

Cooperation with the French and Russian military services was difficult, but the British amicably welcomed the Americans. The return to the United States was routed through the leading European states. Thus the trio of American officers was able to scrutinize the military establishments of France, Great Britain, Austria-Hungary and Prussia, centering much of their attention on depots and fortresses. The reports that were subsequently published of their observations were of mixed quality. Delafield's Report on the Art of War in Europe and Mordecai's Military Commission to Europe were objective and professional in nature.53 Delafield concentrated on his area of specialty, fortifications, while Mordecai emphasized the latest advances in artillery and other aspects of military hardware; both authors, as well, provided illuminating intelligence on virtually every other important aspect of military science and the capabilities of the leading European armies.

In striking contrast to the reports of the two senior members of the Commission, McClellan's <u>European Cavalry</u> and <u>The Armies of Europe</u> (both of which were privately published and distributed far more widely than either of the two government-produced reports) were flaccid and exceedingly undiscriminating. What was clearly absent from McClellan's

official reports were practical and comprehensive assessments of the military effectiveness of the various cavalry services of Europe. Moreover, McClellan made little effort to evaluate the combat worth of cavalry in the Crimean War; certainly the infamous charge of the British Light Brigade merited considerable inquiry as to the future prospects of horse soldiers in battle. One can learn from McClellan all kinds of quaint but largely useless trivia such as the types of drums used in the Prussian Army or even the relative merits of Sardinian wooden water caskets. Yet nowhere did the young Captain attempt to evaluate or analyze his data; rather McClellan was apparently content simply to report, without investigation or inquiry. The British Cavalry, for example, widely rated as the worst of any major power by the leading cavalry theorists of the day, was cheerfully presented in terms of its formal order of battle without a whiff of criticism by McClellan. One of the positive gains for the United States Cavalry service was the adoption of the Hungarian saddle (albeit that the original horsehair cover, due to the extreme discomfort it caused, was replaced by one of tanned leather); McClellan, in describing this key piece of cavalry equipment, however, did not lay out a process of evaluation from which the reader could trace out and comprehend how he arrived at the merits of his conclu-The reason for McClellan's lack of analysis stemmed sions. from the fact that, unlike either Delafield or Mordecai, he

was not an experienced student of his assigned area of the art of war. In fact, McClellan's understanding of cavalry theory was superficial at best. Analyzing European cavalry theory and practice on the basis of official tables of organization and elite demonstration units was for McClellan, the representative of a second rate power, akin to letting loose a very studious child in a marvelous store of infinite wonders, all very pretty and overwhelming in their splendor.⁵⁴

As an official observer of the major European cavalry services, McClellan was to exert considerable influence on the development of the American cavalry in the late Antebellum years. Yet McClellan, despite the adoption of a new saddle and helping to pave the way for the formal adoption of the new single-rank mounted tactics, was thoroughly traditional in his analysis of cavalry. The image of a young, overly enthusiastic junior cavalry officer, in effect a novice journeying as part of a distinguished United States Military Commission to study at the feet of the masters as it were, is well supported by McClellan's fanciful and utterly impractical notion of transforming Plains Indians into Cossacks:

It is impossible to repress the conviction that in many of the tribes of our frontier Indians, such as the Delaware, Kickapoos & c., we possess the material for the formation of partisan troops fully equal to the Cossacks, in the event of a serious war on this continent, their employment, under the regulations and restrictions necessary to restrain their tendency to un-

necessary cruelty, would be productive of most important advantage.⁵⁵

Far more biting was McClellan's assessment of the types of mounted units then in Army service and in turn, what improvements were necessary. Echoing Davis's argument for general-purpose cavalry, McClellan listed all the conceivable and probable types of wars in which American mounted units would be needed. The classifications of armed conflict which McClellan entertained in his report were the same essential types which had been the focus of national war policy since Calhoun's tenure as Secretary of War. What was not at all likely, McClellan concluded, was a fullscale, unrestrained and nationalistic struggle, of the Napoleonic variety, which of course had, as a consequence of the Congress of Vienna in 1815 and the emergence of scientific concepts of war, been exercised from the lexicon of armed hostilities. Thus three possible uses of cavalry for three types of potential wars were enumerated by McClellan:

a. use against the Indians;
b. to repel foreign invaders [which due to the limited capacity of mid-19th Century ships, would be woefully short of cavalry;
c. an offensive war involving limited use of cavalry [as in Mexico].⁵⁶

Thus:

It could therefore, seem that heavy cavalry would be worse than useless for our purposes, and that we need only light cavalry, in the true and strict sense of the term.

Since the primary purpose of such cavalry would be frontier security (the East, as per traditional doctrine,

, •

was supposedly unfit for conventional mounted units), McClellan argued that:

The tactical unit should be small, that it may be handled with the greatest possible ease and celerity, and that it may never be broken up. The regiment, also, should be small, for the same reasons.

It followed therefore, that:

The nature of cavalry service in the United States being quite different from that performed by any in Europe, we ought not to follow blindly any one system, but should endeavor to select the good features, and engraft them upon a system of our own.57

Superficially, McClellan appeared to have addressed many of the concerns of frontier officers as to the need to maintain unit integrity as well as authoring a uniquely American form of mounted warfare. McClellan, however, most certainly did not desire to cut loose American cavalry practices from its theoretical umbilical cord to European traditions and doctrines of mounted warfare. Thus, as in accordance with classical cavalry theory, McClellan wrote: "the firearms...", of a mounted formation, "...used solely on guard, vedette, & c., to give the alarm, it being taken as a maxim to trust the saber." Furthermore, "against the Indians of our plains, who have no sabers, the far reaching lance would be no doubt an effective weapon; yet a light saber would be about as much so, and far less in the war."58 Thus, in the grand tradition of mounted warfare, the strength of the cavalry is always in its "spurs and sabers."⁵⁹ What McClellan, who had no experience at all in Indian fighting, intended was not the creation of a unique American style of cavalry adapted to the requirements of the Great Plains. Rather he was clearly in the long tradition of professional officers, dating back to the efforts to turn the First Dragoons into a proper European-like mounted unit, who were dedicated to the classical tradition of horse soldiering. Thus the desire to prepare the cavalry to fight a "real" war with a European adversary. The adoption of such useless European practices as the lance or saber, as argued for by McClellan, demonstrated his lack of comprehension of the practical requirements of Indian fighting.

The professional American Army approached the irksome task of Indian control as a non-military activity, of little honor, as the price for its dedications to the Europeanstyle of war. None of the official Army manuals, cavalry or otherwise, up to the 1850s, had made the slightest reference to the unique tactical problems of Indian fighting. Rather the Army chose to leave such problems to the discretion of individual field commanders. For example, General Dabney Maury, recalled in the 1890s, that in the late 1850s, as a consequence of frontier fighting and McClellan's examination of contemporary cavalry doctrine, a new system of tactics was introduced which:

...would enable men to dismount quickly and use their rifles [Sharps carbines] on foot and demanded also single rank formations. By this new system of tactics, a troops... could be moving at the gallop, and when the trumpet sounded, 'Dismount to fight', could halt, link their horses, and be handling their rifles in line of battle... [within] seconds.⁶⁰

While startlingly similar to later, innovative Union cavalry practice, Maury's statement is unsupported by any cavalry manual in use in the United States before or during the Civil War. Moreover, in its use of decidedly nonstandard cavalry tactics, it represented a clear departure from McClellan's emphasis upon orthodoxy in mounted warfare practice. Either Maury was reading later events back into his history (he was a Southern cavalry commander) or (more likely was referring to the growing emphasis on musketry in this period--confusing the traditional mounted warfare manuals with the seat-of-the-pants, ad hoc cavalry practice of frontier commanders.⁶¹ Only Major-General Philip Cooke, one of America's pre-eminent cavalry experts made a specific reference to Western military conditions in his own, official manual of cavalry tactics. Yet Cooke wrote nothing more than such common sense advice as the need for greater camp security; there is no mention or even hint of a detailed and unique body of frontier mounted warfare principles.⁶² McClellan clearly suggested in his official recommendations that most American frontier cavalrymen did not define themselves as true horse soldiers or considered that their grubby work constituted true mounted warfare. Fundamentally they were little more than mounted gendarmes forced to do the dirty work of Indian control. The professional Army, the one dedicated to fighting an invading

European army in the classical manner of the French-Austrian school of war, paid scant attention to the unique requirements of frontier security duty. Only one American officer, an anonymous Captain of infantry, actually formulated a unique system of war to deal with the elusive and extraordinarily mobile Plains Indians in the Antebellum era. Unerringly, this author rejected the use of classical European tactics as being inappropriate as well as ineffectual:

It [the Army] was...warfare in a country of resources and of comparatively contracted space, and for operations against forts, fieldwork, lines of men, communication or supply, or something that was accessible [which] could be found and seen.⁶³

The formal tradition of post-Napoleonic warfare was unsuited to the demands of the frontier security according to the Captain:

This condition is changed; and so the system. The change consists in the field of operations, its extent, resources and people. It is almost the entire country, washed by the waters of the Rocky Mountains...destitute of resources, its people...without permanent habitation, independent of agriculture, good hunters and horsemen and, with few exceptions, hostile.⁶⁴

The failure of the Army to undertake a complete reorientation of its tactics to meet the unique problems of the far West, lay in the military's unshakable commitment to European style warfare, according to this Captain:

Those having the power are looking across the Atlantic to France, waiting to adapt her practice in similar exigencies, while our officers are at least the equals of the French officers, and our men superior. Our line officers, have no voice, they bear these evils and exercise the same quiet stoicism under existing deficiencies which they tolerate, the incubus, the man who shuns his duty or throws it on his superior, and with which they endure their life-long exile, and we have the material to make, as good light cavalry and infantry as any in the world. France felt a similar need in Algeria and she has her chasseurs d'Afrique and spahia....⁶⁵

It is time we acted upon our necessities. Europe comes to us for pistols and rifles, and we take back the latter, altered but not improved.⁶⁶

The assessment offered by this Captain of the limitations of the French-Austrian school of war carried no weight in official circles. Nonetheless, this officer brilliantly identified and criticized the futility of applying orthodox, European concepts of war to the American frontier. Unlike McClellan's romantic, and rather simplistic call for traditional light cavalry and for the conversion of the Plains Indians into Cossacks, this Captain's remarks were directly attuned to the actual difficulties of frontier security duty. Moreover, unlike the direct importation of French Algerian practice in unconventional warfare, as embodied in Davis's great desert Indian control plan, this Captain's concepts reflected, instead, the very originality of Marshal Bugeaud in developing unorthodox tactics uniquely suited to North African conditions. Thus, the development of Indian fighting tactics uniquely designed for the Far West. Specifically, therefore, "the inadequacy and unfitness of present organization...such as the injustice to heavy cavalry [i.e., the Dragoons] and infantry of employing them to subdue a nation of mounted spies who have no home and leave no trace."⁶⁷ The correct, and pointedly unorthodox method of solving the prickly problem of dealing with an exceedingly mobile and fleeting adversary as the Plains Indians, was set forth by the Captain when he wrote:

To control these people or making a step towards doing so, it is proposed to do what has often been done before with a people to be conquered: take a lesson from them. Assimilate and equalize the two by giving to the soldier the horse, arms and dress of a hunter, the wont of which prevents his efficiency, without giving up the present organization for attacks and self support groups of fours [i.e., a kind of early fire team system adopted by some Western commanders].68

The tactics which were in turn devised by this Captain constituted what could be defined as the nucleus of modern The emphasis was on the use of counterinsurgency tactics. small units, not dissimilar from today's LRPs (long range reconnaissance patrols) teams combined with the speed and endurance of the Indian dog soldiers. Specifically, he advocated the creation of a special, commando-like corps combining light infantry and light cavalry (but distinctly not of the usual European variety) -- the former to deal with the Indians in mountainous terrain, the latter for pursuit The proposed armament would be principally on the Plains. breechloading carbines and revolvers plus sabers if required for close-quarter work.⁶⁹ The record, both before and after the Civil War, however, reveals no instance of such strikingly original tactics being employed by the Army. Thus

frontier commanders continued, as in the past, to make do with the existing, very ill-suited resources at their disposal in handling frontier security problems.

In the main, during the years immediately prior to the Civil War, the official, professional Army rededicated itself to its essential mission, the defense of the United States against foreign tyranny with the doctrines, weapons and equipment of the French-Austrian school of war and of contemporary France. The advent of radical technological, economic and social change was little understood and little exploited in the final years of the Antebellum era. In 1861 the United States Army would find itself fighting a mass, industrial and nationalistic war of survival. This was clearly not the kind of war predicted by either the strategists of the French-Austrian school of war or by McClellan in his official report. The United States had greatly changed since Calhoun's tenure as Secretary of War. What had been a minor power, perilously perched on the outer fringes of European civilization was now a continental size nation, a growing commercial power, increasingly urban in its social make-up.

The Calhoun war policy lay in ruins by the mid-1850s; casemate seacoast fortresses and the concept of the skeleton army were rendered obsolete by the development of steam powered ships, by the great improvements in naval artillery and by the considerable westward expansion of the country. Yet the very French-Austrian school of war was already obsolete before its first theorists attempted to set its ideas down on paper. Only Prussia and General Clausewitz had fully understood that the Napoleonic Wars were truly the portent of future nationalistic tussles between warring peoples, dominated by ideology and by industry and technol-The Guilbertian tactical revolution demolished the oqy. cardinal military tenet of Eighteenth Century limited war doctrine, namely that one army could not move with sufficient dispatch to encircle an destroy another. It had as well made the need for a Frederickian, robot-like army of mercenaries obsolete as well. In turn, the Minie-bullet rifle, the culmination of the gradual shift toward firepower as dominating the battlefield since the end of the Seventeenth Century, rendered not only the formal tactical systems obsolete but also the principles of command and leadership. And it launched the armies of the trans-Atlantic military community on to the first arms race; weapons would be redefined and improved not every couple of hundred of years or more as in the past, but now every fifteen or less. However, to the vast majority of military officers and theorists, until World War I, the full impact of such radical change was at best, ill-understood and in the main ignored.

POSTSCRIPT

The Antebellum frontier experiences of the American cavalry had no direct effect upon the development of mounted warfare practice during the Civil War. Both Confederate and Union horse soldiers gradually adapted to the dense woodland terrain of the Eastern United States, through the use of dismounted tactics. Yet, the charges and the arme blanche continued to dominate formal Confederate and Union cavalry practice until 1864. The southerners achieved more success initially due to the simple fact that Confederate military commanders had to use their mounted volunteers due to the initial absence of any military organization. The North, however, blessed (or more aptly, cursed) with the existing Antebellum army organization dutifully, according to European cavalry doctrine, blocked the formation of state horse units. Only political pressure and the demands of field commanders for cavalry caused the military's senior leadership to begrudgingly accept such troops.

The initial Southern superiority in the large scale use of cavalry stemmed directly from support from senior Confederate commanders for their horse soldiers. Thus, Confederate cavalry performed better in the field due to

220

retaining their organization integrity (Union regiments, in contrast, were broken up and scattered among various larger units) and better leadership. Confederate Captain John N. Opie expressed very well the initial low opinion held by both southern and northern military men of horse soldiers.

It was the custom of the infantry to taunt and jeer the cavalry whenever the opportunity arose. They called them, the 'Buttermilk Rangers'. If the cavalry was going forward, they all cried out, 'No fight today, the 'Buttermilk Rangers' are going to the Front'. If they were going to the rear, they shouted 'The Buttermilk Rangers' running from the yanks, lookout for a battle.70

It was such stunts as Colonel Jeb Stuart's 1862 ride around General McClellan's Army of the Potomac during the Peninsular campaign which greatly improved the morale of Confederate cavalry. In turn, rebel horse units won a measure of support from senior Confederate generals. Yet, the South failed to develop any advances in cavalry tactics; horse soldiers were wasted on unproductive raids. Such experiences -- hard charging units scoring a few quick successes -- is but of little substantial military value. Only the Confederate guerilla leader, General Bedford Forrest developed a form of highly mobile mounted infantry as an alternative to orthodox cavalry tactics. The traditional lack of firepower of horse soldiers and the logistical problems of supporting a cavalry field force crippled Forrest's efforts at devising a highly mobile Confederate strike force.71

In 1864, during the wilderness campaign, General Sheridan radically altered Union military practice. Essentially his thrust toward Richmond was not a raid, rather, his sole purpose was to draw out and destroy Confederate mounted units. The real break-through in Union cavalry, came with Brevet Major-General James Harrison Incredibly, only twenty-three years old, in Wilson. December, 1864, during the Battle of Nashville, Wilson's cavalry forces, fighting both mounted and dismounted and exploiting the enormous fire power of their seven-shot Spencer carbines, played the key role in annihilating General Hood's invading army. The culmination of Union innovative cavalry tactics was Wilson's 1865 Selma expedi-Combining firepower and mobility with the simple tion. Napoleonic logistical solution of living off the land, Wilson's cavalry army destroyed the last major industrial center of the confederacy, crushed Forrest's army and captured Selma, protected by some of the most formidable defenses of the Civil War.⁷² While there was no direct link to the Antebellum army's frontier experience, the innovations of Wilson were of the same sort as earlier army officers' ad hoc solutions to the difficulties of western and southeastern border control. Thus while the French-Austrian school of war, overall failed during the course of the Civil War, professionalism allowed for the development of innovative and dedicated officers.

FOOTNOTES

Chapter I

 "Army of the United States [report of the Secretary of War]" <u>Military and Naval Magazine of the United</u> States II (September 1833); 21.

2. Lieutenant-General Winfield Scott, Memoirs (2 vols.; New York: 1864), I, 30-154; Major Charles Winslow Elliott, Winfield Scott The Soldier and the Man (New York: 1937, 102-114; Brevet Brigadier-General George Forsyth, The Story of the Soldier (New York: 1900), 49-52; Brevet Major-General Emory Upton, The Military Policy of the United States (Washington, D.C.: 1917), 99-103; Marcus Cunliffe, Soldiers and Civilians the Martial Spirit in America 1775-1968), 52-53; Howard White, Executive 1868 (Boston: Influence in Determining Military Policy of the United States (Urbana: 1925), 179-182; Leonard D. White, The Jeffersonians A Study in Administrative History (New York: 1951), passim.; L.D. Ingersoll, A History of the War Department of the United States, et. al. (Washington, D.C.: 1880), 40-41; Ralph Ketchan, James Madison, A Biography (London: 1971), 534-612; on the War of 1812, see, Samuel R. Brown, Views of the Campaigns of the North Western Army, et. al. (Troy: 1814), passim.; Gilbert S. Hunt, The Late War

Between the United States and Great Britain, et. al. (New York: 1816), <u>passim</u>.; Charles J. Peterson, <u>The Military</u> <u>Heroes of the War of 1812</u> (Philadelphia: 1848), <u>passim</u>.; H.M. Brackenridge, <u>History of the Late War Between the</u> <u>United States and Great Britain</u>, et. al. (Philadelphia: 1845), <u>passim</u>.; Major James Ripley Jacobs and Glen Tucker, <u>The War of 1812: A Compact History</u> (New York: 1969), <u>passim</u>.; John K. Mahan, <u>The War of 1812</u> (New York: 1969), <u>passim</u>.

3. "Biographical Sketch of Brigadier General Macomb", <u>Military and Naval Magazine of the United States</u> V (May 1835), 161-173; J. T. Headly, <u>The Lives of Winfield Scott</u> <u>and Andrew Jackson</u> (New York: 1852), <u>passim.</u>; <u>Illustrated</u> <u>Life of General Winfield Scott Commander-in-Chief of the</u> <u>Army in Mexico</u> (New York: 1847), <u>passim.</u>; "Brigadier General Henry Leavenworth", <u>Military and Naval Magazine of</u> <u>the United States</u> IV (October 1834), 101-103; Edward Mansfield, <u>The Life of General Scott Embracing His Campaign</u> <u>in Mexico</u> (New York: 1848), <u>passim</u>.

4. William B. Skelton, "Professionalization in the U.S. Army Officer Corps during the Age of Jackson", <u>Armed</u> <u>Forces and Society</u> I (August 1975), 448-449; William B. Skelton, The United Stats Army, 1821-1837: An Institutional History (unpublished Ph.D. dissertation, Northwestern University, 1968), 13-18; Brigadier-General Dale O. Smith, U.S. Military Doctrine: A Study and Appraisal (New York:

224

1955), 32-36; Lawrence Delbert Cress, <u>Citizens In Arms: The</u> <u>Army and the Militia in American Society to the War of 1812</u> (Chapel Hill: 1982), 172-177; John K. Mahan, <u>History of the</u> <u>Militia and the National Guard</u> (New York: 1982), 65-77.

5. Warren H. Hassler, Jr., <u>With Shield and Sword:</u> <u>American Military Affairs Colonial Times to the Present</u> (Ames: 1982), 48; Forsyth, Story of the Soldier, 17-19.

6. William H. Gaines, Jr., "The Forgotten Army Recruiting for a National Emergency, 1799-1800." <u>Virginia</u> <u>Magazine of History and Biography</u> LVI (July 1948), 262-279; James Ripley Jacobs, <u>The Beginning of the United States Army</u> <u>1783-1812</u> (reprint; West Port: 1974 (1947)), 120-135; Thomas J. Craeckel, "Jefferson Politics and the Army: An Examination of the Military Peace Establishment Act of 1802," <u>Journal of the Early Republic</u> II (1982), 22-38; Forsyth, <u>Story of the Soldier</u>, 21-40; Hassler, <u>Shield and <u>Sword</u>, 51-60; Skelton, <u>U.S. Army</u>, 1-12; Upton, <u>Military</u> <u>Policy</u>, 73-75; Richard C. Watson, "Congressional Attitudes Toward Military Preparedness 1829-1838," <u>Mississippi Valley</u> Historical Review XXXIV (March 1948), 611-612.</u>

7. William Duane, <u>The American Military Library</u>, or <u>Compendium of the Modern Tactics</u>, et. al. (Philadelphia: 1809), 128; "Causes of the Failure of the Expedition Against the Indians in 1791 Under the Command of Major-General St. Clair, of the Northern Army," <u>American State Papers</u>, <u>Military Affairs</u>, I, 36-45 (1791); "Causes of the Failure of the Northern Army," <u>American State Papers, Military Affairs</u>, I, 439-488 (1814); Arthur St. Clair, <u>A Narrative of the</u> <u>Manner in Which the Campaign against the Indians in the year</u> <u>1791 was Conducted</u>, et. al. (reprint; New York: 1971 (1819)), <u>passim</u>.; Upton, <u>Military Policy</u>, 73-88; Hassler, <u>Shield and Sword</u>, 73; Jacobs, <u>U.S. Army</u>, <u>passim</u>.; James Ripley Jacobs, <u>Tarnished Warrior: Major-General James</u> <u>Wilkerson</u> (New York: 1938), <u>passim</u>.

8. Richard A. Preston and Sidney F. Wise, <u>Men in Arms</u> (4th ed.; New York: 1979), 196-200; Louis Morton, "Origins of American Military Policy," <u>Military Affairs</u> XXII (Summer 1958), 76-79.

9. Craeckel, "Jefferson Politics and the Army," 21-38; also see, Donald Hickey, "Federalist Defense Policy in the Age of Jefferson, 1801-1812," <u>Military Review</u> XLV (April 1981), 63-70.

10. Scott, Memoirs, I, 156-157.

11. Lieutenant Richard Nicholson Magrath, <u>An</u> <u>Historical Sketch of the Progress of the Art of War</u> (London: 1983), 54-68; Theodore Ropp, <u>War in the Modern Era</u> (Durham: 1959), 132-133; Hoffman Nickerson, <u>The Armed Horde 1793-</u> 1939: A Study of the Rise, Survival and Decline of the Mass <u>Army</u> (New York: 1940), 109-125, 133-140; John Gooch, <u>Armies</u> <u>in Europe</u> (London: 1980), 50-54; Spencer Wilkerson, <u>The</u> <u>French Army Before Napoleon</u> (Oxford: 1915), 14-15; Liddell Hart, <u>The Ghost of Napoleon</u> (London: 1933), <u>passim</u>; J.F.C. Fuller, <u>The Conduct of War 1789-1961</u> (New Brunswick: 1961), 44-55; J.R. Westerner, "Armies," in A. Goodwin, ed., <u>The New</u> <u>Cambridge Modern History</u> (15 vols.; Cambridge, U.K.: 1965), VIII, 190-217; Richard Holyroyd, "The Bourbon Army 1815-1830," <u>Historical Journal</u> (Cambridge) XIV (September 1971), 529-552; Edward Hagerman, "From Jomini to Dennis Hart Mahan: The Evolution of Trench Warfare and the American Civil War," <u>Civil War History</u> XII (September 1967), 197-200; Preston and Wise, <u>Men in Arms</u>, 193-196; Frederick Louis Huidekuiper, Military Studies (Kansas City: 1904), 103-104.

12. C.P. Kingsbury, <u>An Elementary Treatise on</u> <u>Artillery and Infantry Adapted to the Service of the United</u> <u>States</u>, et. al. (New York: 1856), 44-45; President James A. Monroe, <u>A Narrative Tour of Observations Made during the</u> <u>Summer of 1817 through the Northeastern and Northwestern</u> <u>Departments of the Union</u>, et. al. (Philadelphia: 1818), appendix, xii-xiii; Elliott, <u>Scott</u>, 194-200; "U.S. Army," 15-16; Skelton, "Professionalization in the U.S. Army," 456; Roger C. Nichols, <u>General Henry Atkinson A Western Military</u> <u>Career</u> (Norman: 1965), 24-25; Sidney Forman, "The United States Military Philosophical Society, 1812-1813," <u>William</u> <u>and Mary Quarterly</u>, 2nd series II (January 1945), 273-285; James W. Pohl, "The Influence of Antoine Henri de Jomini on Winfield Scott's Campaign in the Mexican War," <u>Southwestern</u> Historical Quarterly LXXVII (1973), 89-94. 13. Edward B. Mansfield, <u>The Military and Services of</u> <u>the United States Military Academy</u> (New York: 1847), 23; <u>United States Military Philosophical Society Extracts</u> (January 30, 1808), 7.

14. Duane, <u>American Military Library</u>, 128; First Lieutenant William P. Craighill, <u>The Army Officer's Pocket</u> <u>Companion, Principally Designed for Staff Officers in the</u> <u>Field</u>, et. al. (New York: 1862), 16-17; also see, "Military Education," Edinburgh Review XLIX (June 1829), 406-407.

15. Samuel P. Huntington, The Soldier and the State the Theory and Politics of Civil-Military Relations (Cambridge: 1964), 20-28; General Sir John Winthrop Hackett, The Profession of Arms (London: 1962), 3-25; Michael Roberts, The Military Revolution of 1560-1660 (Belfast: 1956), 16-26; Samuel E. Scott, "Gentleman Soldiers at the Time of the French Revolution," Military Review XLV (October 1981), 105-108; John Childs, Armies and Warfare in Europe, 1648-1789 (New York: 1982), 22-26, 78-80; Skelton, "Professionalism in the U.S. Army," 455-457; Gordon A. Craig, The Politics of the Prussian Army 1640-1945 (New York: 1964), 5-26; Gunther E. Rothenberg, "The Austrian Army in the Age of Metternich," Journal of History XL (June 1968), 156-159; Thomas Baker, Army Aristocracy, Monarchy: Essays on War, Society and Government in Austria 1618-1780 (Boulder: 1982), 1-21; Otto von Pirka, Armies of the Napoleonic Era (New York: 1979), 9-11; Martin Kitchen,

A Military History of Germany from the Eighteenth Century to the Present Day (Bloomington: 1975), 14-18; Thomas Griess, Dennis Hart Mahan: West Point Professor and Advocate of Military Professionalism 1830-1871 (Ph.D. dissertation, Duke University: 1968), 40-41; Walter Goerlitz, <u>History of the German General Staff 1657-1945</u> (New York: 1953), 3-7; S. F. Scott, "The French Revolution and the Professionalization of the French Officer Corps, 1789-1793," in Morris Janowitz and Jacques Van Doorn, ed., <u>On Military Ideology</u> (Rotterdam: 1971), 5-18; Morris Janowitz, "The Decline of the Mass Army," Military Review LII (February 1972), 10-16.

16. For engineering, see for example, Sebastien LePrest Vauban, <u>A Manual of Siegecraft and Fortification</u> (reprint; Ann Arbor: 1968 (1740)); John Muller, <u>The Attack</u> and Defense of Fortified Places, et. al. (3rd ed.; London: 1757); for a philosophical approach to war, see, E. de Vattel, <u>The Laws of Nations or the Principles of Natural Law</u> (3 vols.; reprint; Washington, D.C.: 1916), II; for the first attempts at devising a unique body of military theory, see, Humphrey Bland, <u>A Treatise of Military Discipline in</u> <u>Which is Laid Down the Duty of the Officer and Soldier</u>, et. al. (5th ed.; London: 1743); E. Hoyt, <u>A Treatise on the</u> <u>Military Art</u> (Greenfield: 1798); see as well, <u>Frederick the</u> <u>Great, Instructions for His Generals</u> (reprint; Harrisburg: 1944); Major-General James Wolfe, <u>General Wolfe's</u> <u>Instructions to Young Officers</u>, et. al. (reprint; Ottawa: 1968 (1780)); in addition, see, Childs, <u>Armies and Warfare</u>, 98-100; David Bein, "The Army in the French Enlightenment," <u>Past & Present</u>, No. 85 (November 1979), 68-98; Steven T. Ross, "The Development of the Combat Division in Eighteenth Century French Armies," <u>French Historical Studies</u> IV (Spring 1965), 84-94.

17. Field Marshal Baron von der Goltz, <u>The Nation in</u> <u>Arms: A Treatise on Modern Military Systems and the Conduct</u> <u>of War</u> (London: 1906), 21-22; Gooch, <u>Armies</u>, 22-28; Goerlitz, <u>German General Staff</u>, 25-36; Michael Howard, <u>War</u> <u>in European History</u> (Oxford: 1976), 95-99; Huntington, <u>Soldier and the State</u>, 26-32; William H. McNeil, <u>The Pursuit</u> <u>of Power Technology, Armed Force and Society since A.D. 1000</u> (Chicago: 1982), 163-165, 172-173; Strachan, <u>European</u> <u>Armies</u>, 60-75; Ropp, <u>War</u>, 111-119.

18. Skelton, "Professionalism in the U.S. Army," 443-444; Huntington, <u>Soldier and the State</u>, 8-18; Scott, "Professionalization/French Officer Corps," 18-50; Gerke Teitler, <u>The Genius of the Professional Officers' Corps</u> (Beverly Hills: 1977), 6-25.

19. David H. Chandler, <u>Professional Lives in American</u> <u>Structure and Aspiration 1750-1850</u> (Cambridge: 1982), 163-165; 172-173.

20. Holyroyd, "Bourbon Army," 529-552.

21. Goltz, Nation in Arms, 23, 25-26.

22. Teitler, <u>Profession of Arms</u>, 33-34; Huntington, <u>Soldier and the State</u>, 31-32; Hajo Holborn, "Moltke's Strategical Concepts," <u>Military Affairs</u> VI (1942), 153-156.

23. Major-General Donald H. Connolly, "What and Why is a General Staff?," <u>Military Engineer</u> XII (May-June 1921), 222-229.

24. John C. Calhoun, "On the Reduction of the Army, Report of the Secretary of War to House of Representatives, December 14, 1818, " in John C. Calhoun, <u>Works</u>, ed. by Richard Crable (6 vols.; New York: 1855), III, 29-30; Skelton, <u>U.S. Army</u>, 23; Ingersoll, <u>War Department</u>, 85-86; Charles M. Wilste, <u>John C. Calhoun Nationist</u>, <u>1782-1828</u> (Indianapolis: 1944), 149-152, 223-224.

25. John C. Calhoun, "On the Reduction of the Army, Report to the House, Dec. 12, 1820," Calhoun, <u>Works</u>, III, 81-82; Margaret Coit, <u>John C. Calhoun: American Portrait</u> (Boston: 1950), 121-128; Samuel Huntington, "Equilibrium and Disequilibrium in American Military Policy," <u>Political</u> <u>Science Quarterly</u> LXXVI (December 1961), 486.

26. "Army of the U.S.," 21-23; Skelton, <u>U.S. Army</u>, 25; White, <u>Executive Influence</u>, 182-183, 186-188; Henry Ammon, <u>James Monroe, The Quest for National Identity</u> (New York: 1971), 359-360, 470-472; W.P. Cresson, <u>James Monroe</u> (Chapel Hill: 1946), 350-351; Wilste, <u>Calhoun</u>, 149-152, 164-166, 223-224; William M. Meigs, <u>The Life of John Caldwell Calhoun</u> (New York: 1917), 265-266.

231

They have Trod the West Point Tradition in American Life (New York: 1940), 104-105; Ambrose, West Point, 55-56.

39. "Reports of the Boards of Visitors," 251; "United States Military Academy," <u>Southern Literary Messenger</u> IX (1843), 665-670.

40. Barnard, <u>Military Schools</u>, 740; also see, Captain Edward C. Boynton, <u>History of West Point</u>, et. al. (New York: 1863), 237; P.S. Michie, "Education in its Proper Relationship to the Military Profession," <u>Journal of the</u> Military Service Institution I (1880), 154-157.

41. John C. Calhoun, <u>The Papers of John C. Calhoun</u>, ed. by W. Edwin (15 vols.; Columbia: 1959-1981), III, 286.

42. Henry Clay, <u>The Papers of Henry Clay</u>, ed. by James Hopkins and Mary W. M. Hargreaves (Lexington: 1959-1981), II, 120.

43. "Popular Prejudices," 297.

44. "Military Academy at West Point," 305-313.

45. Scott, Memoirs, I, 32.

46. "Military Academy at West Point," 312.

47. Griess, <u>Dennis Hart Mahan</u>, 75-102; Mansfield, "Military Academy," 26-27; Huntington, <u>Soldier and the</u> <u>State</u>, 197-198; Skelton, <u>U.S. Army</u>, 19-20; Hassler, <u>Shield</u> <u>and Sword</u>, 119-121; Cunliffe, <u>Soldiers & Civilians</u>, 105-111; Park, <u>West Point</u>, 76-100; George Fielding Elliot, <u>Sylvanius</u> <u>Thayer of West Point</u> (New York: 1959), <u>passim</u>. 48. Palmer, <u>America in Arms</u>, 80-81; Huntington, <u>Soldier and the State</u>, 197-198; James C. Morrison, Jr., "Educating the Civil War Generals: West Point, 1833-1861," <u>Military Affairs XXVII</u> (October 1974): for the perspective of a contemporary British officer, see, Patrick MacDougall, <u>The Theory of War</u>, et. al. (London: 1862), 337; also see in contrast, Herman Hattaway and Archer Jones, <u>How the North</u> <u>Won: A History of the Civil War (Urbana: 1983), 11.</u>

49. Scott, Memoirs, I, 29.

50. Scott, <u>Memoirs</u>, I, 111; also see, Caldwell, "Frontier Army Officer," 101-128; Jacobs, <u>U.S. Army</u>, 139-146; Huntington, <u>Soldier and the State</u>, 20-28; Nichols, <u>Atkinson</u>, 3-25; Elliott, <u>Scott</u>, 102-114; Skelton, "Professionalization in the U.S. Army," 446-449; Mary C. Gillett, "Thomas Lawson, Second Surgeon General of the U.S. Army: A Character Sketch," <u>Prologue</u> XIV (Spring 1982), 15-24.

51. Caldwell, "Frontier Army Officer," 101-128; Huntington, <u>Soldier and the State</u>, 20-28; Jacobs, <u>U.S. Army</u>, 139-146, 224-25, 273; Skelton, "Professionalization in the U.S. Army," 446-449; Nichols, <u>Atkinson</u>, 3-25.

52. Blanchard, Jerrold, <u>The French Under Arms, Being</u> <u>Essays on Military Matters in France</u> (London: 1860), 244; "Military Education," <u>Blackwood's Magazine</u> LXXXII (September, November 1857), 265-290, 575-592; "Military Education," <u>Edinburgh Review</u>, 394-395, 406-407; "National Education," <u>Edinburgh Review</u> XLV (April 1852), 325-326, 329-331.

53. This concept of professionalism and the trans-Atlantic brotherhood of military officers was well stated in, "The Armies of Europe," <u>Putnam's Magazine</u> VI (1855): 193.

54. Jacob K. Neff, <u>The Army and Navy of America</u>, et. al. (Philadelphia: 1845), 10.

55. "John C. Calhoun to Richard M. Johnson, January 15, 1819," <u>American State Papers</u>, <u>Military Affairs</u>, XVI, 834.

56. Lieutenant-Colonel J.J. Graham, <u>Elementary History</u> of the Art of War (London: 1858), 2-3.

57. E. Hoyt, <u>Practical Instructions for Military</u> Officers, et. al. (reprint; West Port: 1971 (1811)), IV.

58. Scott, Memoirs, I, 36.

59. Isaac Maltby, <u>The Elements of War</u> (3rd ed.; Hartford: 1815), XI.

60. Maltby, Elements, XXVII; Hoyt, Military Art, 11.

61. Graham, <u>Art of War</u>, 2-3; Marshal Auguste Frederich Marmont, <u>On Modern Armies</u> (London: 1865), 3.

62. Simon Francis Guy de Veron, <u>A Treatise on the</u> <u>Science of War and Fortifications</u>, et. al. (New York: 1811), 9; Note: This work was a standard West Point textbook until the 1830s; also see, Ropp, <u>War</u>, 35.

63. Guy De Veron, War and Fortifications, 10.

64. Strachan, European Armies, 60-75.

65. Baron Henri de Jomini, <u>The Practice of War</u>, et. al. (Richmond: 1863), X-XI.

66. Ibid., VII (C.F. Pardigon, Introduction).

67. L.V. Buckholtz, <u>Tactics for Officers of Infantry</u>, <u>Cavalry and Artillery</u> (Richmond: 1861), 7-8; also see, Michie, "Education... Military Profession," 166-167.

68. Buckholtz, Tactics, 7-8.

69. Magrath, <u>Art of War</u>, 2; also see, Michie, "Education... Military Profession," 166-167.

70. American State Papers, Military Affairs, XIX, 136.

71. Patrick MacDougall, <u>Modern Warfare as Influenced</u> by Modern Artillery (London: 1864), 30.

72. Dennis Hart Mahan, <u>A Treatise on Field</u> Fortifications, et. al. (New York: 1861), 36-37.

73. Morrison, "Educating the Civil War Generals," 108-109; Griess, <u>Dennis Hart Mahan</u>, 130-131; <u>The Centennial</u> <u>History of the United States Military Academy at West Point</u>, et. al. (Washington, D.C.: 1904), 223.

74. Hoyt, Practical Instruction, IV.

75. For an excellent sampling of the various styles of Eighteenth Century Military History, see, <u>The Field of Mars:</u> <u>Being an Alphabetical Digestion of the Principal Naval and</u> <u>Military Engagements in Europe, Asia, and America</u>, et. al. (2 vols.; London: 1781), <u>passim</u>. 76. Dennis Hart Mahan, <u>An Elementary Treatise on</u> <u>Advanced-Guard, Outpost, and Detachment Service of Troops</u>, et. al. (New York: 1853), 217-218; also see, Cunliffe, Soldier & Civilian, 389-402.

77. Skelton, <u>U.S. Army</u>, 166-167; also see, "The Military Establishment of the United States," <u>Southern</u> Literary Messenger XVIII (February 1851), 69.

78. Skelton, <u>U.S. Army</u>, 166-167; also see, "Military Academy at West Point," 310-311; Ambrose, <u>West Point</u>, 87-105.

79. J.B. Wheeler, <u>A Course of Instruction in the</u> <u>Elements of the Art and Science of War</u>, et. al. (New York: 1878), V.

80. Wheeler, <u>Course of Instruction</u>, 3-4; General Samuel C. French, <u>Two Wars: An Autobiography</u> (Nashville: 1901), 18-19.

81. MacDougall, <u>Modern Warfare</u>, I; also see, Fayette Robinson, <u>An Account of the Organization of the Army of the</u> <u>United States</u>, et. al. (22 vols.; Philadelphia: 1848), I, 65-66.

82. (Erzas Hunt), "West Point and Cadet Life," Putnam's Magazine IV (August 1854), 204.

83. American State Papers, Military Affairs, I, 137.

84. Baron Henri de Jomini, <u>The Art of War</u> (Philadelphia: 1862), 42; also see, Magrath, <u>Art of War</u>, 34; "Modern Tactics," <u>Southern Literary Messenger</u> XXVI (January 1858), 1.

"System of Fortification Recommended by the Board 85. of Engineers," American State Papers, Military Affairs, II, 245-260 (1826); "Our Sea-Coast Defense Fortification System," Putnam's Magazine VII (March 1856), 314-325; First-Lieutenant John C. Morton, Memoir on American Fortification (Washington, D.C.: 1859), passim.; Major John G. Barnard, Notes on Sea Coast Defense, et. al. (New York: 1861), passim; E.G. Campbell, "Railroads in National Defense 1829-1848," Mississippi Valley Historical Review XXVII (December 1940), 361-378; Skelton, U.S. Army, 16-18; W. Turrentine Jackson, "The Army Engineers as Road Builders in Territorial Iowa," Iowa Journal of History XLVII (January 1949), 15-33; Martin van Crevald, Supplying War Logistics from Wallenstein to Patton (London: 1977), 55-70; Willard B. Robinson, "Maritime Frontier Engineering: The Defense of New Orleans," Louisiana History XVIII (Winter 1977), 5-62.

86. Jomini, <u>Art of War</u>, 42; Hoyt, <u>Practical</u> <u>Instructions</u>, 30.

87. Childs, Armies and Warfare, 133-141.

88. Hoyt, <u>Practical Instructions</u>, 30; for a practical example of military engineering in use, see, "Military Bridges," <u>Edinburgh Review XCVIII</u> (October 1853), 448-480.

89. Senator Thomas Hart Benton, Thirty Years View, or

a History of the American Government for Thirty Years 1820 to 1850 (2 vols.; New York: 1854), 639.

90. Ibid., 184.

91. Cunliffe, <u>Soldiers & Civilians</u>, 111; George B. Stanford, <u>Fighting Rebels and Redskins Experiences in Army</u> Life, et. al. (Norman: 1969), 114.

92. Cunliffe, <u>Soldiers & Civilians</u>, 198-200; "Military Establishment," 65; for defenses of West Point, see, "Military Academy, West Point," <u>Military and Naval Magazine</u> of the United States II (November 1833), 135-136; "Spirit and Progress of the Age," <u>Military and Naval Magazine of the</u> <u>United States I (1833), 1-12; "West Point," <u>Military and</u> <u>Naval Magazine of the United States III (March 1834), 68-</u> 72.</u>

93. "West Point Cadet Life," 196-197; also see, "United States Military Academy," <u>Southern Literary</u> <u>Messenger IX (1843), 665-670.</u>

94. Cunliffe, <u>Soldiers & Civilians</u>, 106-107; Leonard D. White, <u>The Jacksonians: A Study in Administrative</u> History 1829-1861 (New York: 1954), 198-200.

95. Skelton, "Professionalization in the U.S. Army," 456.

96. Randolph B. Marcy, <u>Border Reminiscences</u> (New York: 1872), 47.

97. Brevets were derived from British Army practice and were in effect, honorary titles "awarded for gallant or meritorious action in time of war, and having none of the authority, precedence or pay of real or full rank." Created in 1806, Brevets were supposed to only have command effect when officers of different corps were serving in mixed detachments. They proved to be a major source of controversy and internal discord within the Army as to who was actually ranked what--Lieutenant-Colonel Mark Mayo Boatner, III, <u>The Civil War Dictionary</u> (New York: 1959), 84; also in general see, Colonel James B. Fry, <u>The History</u> and Legal Effect of Brevets in the Armies of Great Britain and the United States, et. al. (New York: 1873), passim.

98. Corps of Engineers, Corps of Topographical Engineers, Ordnance Corps, Artillery, Infantry, and later, Dragoons and Mounted Rifles, "West Point and Cadet Life," 198.

99. The following autobiographies and collections of letters give a comprehensive picture of West Point in the Antebellum period: William Woods Averell, <u>Ten Years in the Saddle: The Memoirs</u>, et. al. (San Rafael: 1978), 15-54; George Armstrong Custer, <u>Custer in the Civil War: His</u> <u>Unfinished Memoirs</u>, ed. by John M. Carroll (San Rafael: 1977), 78-80; Henry A. DuPont, "West Point in the Fifties: The Letters of Henry A. DuPont," ed. by Stephen E. Ambrose, <u>Civil War History X</u> (September 1964), 291-308; French, <u>Two</u> <u>Wars</u>, 14-20; Major-General Ethan Allen Hitchcock, <u>Fifty</u> <u>Years in Camp and Field</u> (New York: 1909), 48-66; U.S. Grant, <u>Personal Memoirs</u> (2 vols.; New York: 1888), I, 7-14; Major-General D.S. Stanley, <u>Personal Memoirs</u> (Cambridge: 1917), 16-26; James Harrison Wilson, <u>Under the Old Flag</u>, et. al. (2 vols.; New York: 1912), 7-16; in addition, see, Sidney Foreman, compl., <u>Cadet Life before the Civil War</u> <u>Bulletin No. 1</u> (West Point: 1945), <u>passim</u>.; also see as well, Francis Paul Prucha, "The United States Army as Viewed by British Travelers 1825-1860," <u>Military Affairs</u> XVII (Winter 1953), 121-122.

100. U.S. Statutes at Large, III, 426-427.

101. Ingersoll, <u>War Department</u>, 85-88; Skelton, <u>U.S.</u> <u>Army</u>, 18-19; Robinson, <u>Organization/U.S. Army</u>, I, 75-84; Erna Risch, <u>Quartermaster Support of the Army: A History of</u> <u>the Corps 1775-1939</u> (Washington, D.C.: 1962), 115, 181-188; White, Jeffersonians, 225, 238-239.

102. Upton, <u>Military Policy</u>, 154; Griess, <u>Dennis Hart</u> <u>Mahan</u>, 8-9; William E. Birkheimer, <u>Historical Sketch of the</u> <u>Organization, Administration, Material and Tactics of the</u> <u>Artillery United States Army</u> (Washington, D.C.: 1884), 169-171.

103. Skelton, <u>U.S. Army</u>, 30-34; Hattaway and Jones, <u>How</u> <u>the North Won</u>, 103-105; Ingersoll, <u>War Department</u>, <u>passim</u>.; James B. Fry, <u>A Sketch of the Adjutant General's Department</u>, <u>U.S. Army from 1775 to 1875</u>, et. al. (New York: p.p., 1876), <u>passim</u>.; also see, United States War Department, General Regulations for the Army, or Military Institutions (Philadelphia: 1821), 178-187; <u>U.S. Statutes at Large</u>, III, 615-616.

104. <u>American State Papers</u>, <u>Military Affairs</u>, III, 821. 105. William B. Skelton, "The Commanding General and the Problem of Command in the United States Army, 1821-1841," <u>Military Affairs XXXI</u> (December 1970), 117-122; Skelton, <u>U.S. Army</u>, 34-43, 124-130; Lieutenant-Colonel J.D.

Hittle, The Military Staff, Its History and Development (Harrisburg: 1944), 159-166.

106. Captain Auguste F. Lendy, <u>Maxims, Advice and</u> <u>Instructions on the Art of War</u>, et. al. (New York: 1862), 13-14.

107. Huntington, "Equilibrium and Disequilibrium," 486.

108. Dallas D. Irvine, "The Origins of Capital Staffs," Journal of Modern History X (June 1938), 161-179; Hittle, Military Staff, 29-40; Ropp, War, 133-139; Goerlitz, German General Staff, 2-36.

109. Comte de Orleans Paris, Louis Philippe Albert, <u>History of the Civil War in America</u> (3 vols.; Philadelphia: 1875), I, 26-28; Craighill, <u>Pocket Companion</u>, 12-17; MacDougall, <u>Theory of War</u>, 34-35; Captain Thomas James Thackery, <u>The Military Organization and Administration of</u> <u>France</u> (2 vols.; London: 1856), <u>passim</u>.; also see as well, Arpod Kovacs, "French Military Institutions Before the Franco-Prussian War," <u>American Historical Review</u> LI (January 1946), 217-235. 110. Robinson, Organization/U.S. Army, 79.

111. Major-General George B. McClelland, McClelland's Own Story: The War for the Union, et. al. (New York: 1887), 112; also see, Graham, <u>Art of War</u>, 173-174; MacDougall, Theory of War, 20-29.

112. MacDougall, Modern Warfare, 181.

113. Hittle, <u>Military Staff</u>, 56-96; Dallas D. Irvine, "French and Prussian Staff Systems Before 1870," <u>Military</u> Affairs, II (Winter 1938), 197-203.

114. Connolly, "General Staff," 222-229; Major-General James Murphy, "The Evolution of the General Staff Concept," Defense Management Journal XII (July 1976), 34-39.

115. (A Subaltern), "Notes on Our Army," Southern
Literary Messenger X (1844), 86-87.

116. Skelton, <u>U.S. Army</u>, <u>passim</u>.; Ingersoll, <u>War</u> Department, <u>passim</u>.; Weigley, <u>U.S. Army</u>, passim.

117. John O'Brien, <u>A Treatise on American Military Laws</u> and the Practice of Courts Martial, et. al. (Philadelphia: 1846), 30-43.

118. Hittle, <u>Military Staff</u>, 69-84; Nickerson, <u>Armed</u> <u>Horde</u>, 91-137; Spencer Wilkinson, <u>The Brain of an Army: A</u> <u>Popular Account of the German General Staff</u> (Westminster: 1895), 58-67; Smith, <u>U.S. Military Doctrine</u>, 50-54; Gooch, Armies in Europe, 21, 25-26, 69-70.

119. J.W. Fortescue, <u>A History of the British Army</u> (8 vols.; London: 1898-1930), I, 384-389, II, 15-26; Lieutenant-Colonel John S. Omon, The Army and Parliament (Cambridge, U.K.: 1933), 15-40; Carelli Barnett, Britain and Her Army, 1509-1970 A Military, Political and Social Survey (New York: 1970), 166-170; Lawrence Delbert Cress, "Radical Whiggery on the Role of the Military: Ideological Roots of the American Revolutionary Militia," Journal of the History of Ideas XL (January-March 1979), 143-160; J.G.A. Pocack, "Machiavelli, Harrington, and English Political Ideologies in the Eighteenth Century," William and Mary Quarterly XXII third series (October 19965), 549-583; E. Arnold Miller, "Some Arguments Used by English Pamphleteers 1697-1700, Concerning A Standing Army," Journal of Modern History XVII (December 1946), 303-313; Louis G. Schowoerer, "The Literature of the Standing Army Controversy, 1697-1699," Huntington Library Quarterly XXVII (May 1965), 187-212; Cress, Citizens in Arms, 15-33.

120. Cress, "Radical Whiggery," 43-60; A.J. Barker, <u>Redcoats</u> (London: 1976), 121-132; Richard H. Kohn, <u>Eagle</u> and Sword the Federalists and the Creation of the Military <u>Establishment in America 1783-1802</u> (New York: 1975), <u>passim</u>.; Brigadier-General Williston B. Palmer, "American Policy on Raising Armies," in the <u>Evolution of Military</u> <u>Policy of the United States</u> (Carlisle Barracks: 1946), 21-24; Skelton, <u>U.S. Army</u>, 1-2; Mahan, <u>Militia/National Guard</u>, 14-34; John K. Mahon, <u>The American Militia: Decade of</u> <u>Decision, 1789-1800</u> (Gainesville: 1960), 2-7; Cunliffe, (Philadelphia: 1821), 178-187; <u>U.S. Statutes at Large</u>, III, 615-616.

104. American State Papers, Military Affairs, III, 821.

105. William B. Skelton, "The Commanding General and the Problem of Command in the United States Army, 1821-1841," <u>Military Affairs XXXI</u> (December 1970), 117-122; Skelton, <u>U.S. Army</u>, 34-43, 124-130; Lieutenant-Colonel J.D. Hittle, <u>The Military Staff, Its History and Development</u> (Harrisburg: 1944), 159-166.

106. Captain Auguste F. Lendy, <u>Maxims, Advice and</u> <u>Instructions on the Art of War</u>, et. al. (New York: 1862), 13-14.

107. Huntington, "Equilibrium and Disequilibrium," 486.

108. Dallas D. Irvine, "The Origins of Capital Staffs," Journal of Modern History X (June 1938), 161-179; Hittle, Military Staff, 29-40; Ropp, <u>War</u>, 133-139; Goerlitz, <u>German</u> <u>General Staff</u>, 2-36.

109. Comte de Orleans Paris, Louis Philippe Albert, <u>History of the Civil War in America</u> (3 vols.; Philadelphia: 1875), I, 26-28; Craighill, <u>Pocket Companion</u>, 12-17; MacDougall, <u>Theory of War</u>, 34-35; Captain Thomas James Thackery, <u>The Military Organization and Administration of</u> <u>France</u> (2 vols.; London: 1856), <u>passim</u>.; also see as well, Arpod Kovacs, "French Military Institutions Before the Franco-Prussian War," <u>American Historical Review</u> LI (January 1946), 217-235. 110. Robinson, Organization/U.S. Army, 79.

111. Major-General George B. McClellan, <u>McClellan's Own</u> <u>Story: The War for the Union</u>, et. al. (New York: 1887), 112; also see, Graham, <u>Art of War</u>, 173-174; MacDougall, Theory of War, 20-29.

112. MacDougall, Modern Warfare, 181.

113. Hittle, <u>Military Staff</u>, 56-96; Dallas D. Irvine, "French and Prussian Staff Systems Before 1870," <u>Military</u> Affairs, II (Winter 1938), 197-203.

114. Connolly, "General Staff," 222-229; Major-General James Murphy, "The Evolution of the General Staff Concept," Defense Management Journal XII (July 1976), 34-39.

115. (A Subaltern), "Notes on Our Army," Southern
Literary Messenger X (1844), 86-87.

116. Skelton, <u>U.S. Army</u>, <u>passim</u>.; Ingersoll, <u>War</u> Department, <u>passim</u>.; Weigley, <u>U.S. Army</u>, passim.

117. John O'Brien, <u>A Treatise on American Military Laws</u> and the Practice of Courts Martial, et. al. (Philadelphia: 1846), 30-43.

118. Hittle, <u>Military Staff</u>, 69-84; Nickerson, <u>Armed</u> <u>Horde</u>, 91-137; Spencer Wilkinson, <u>The Brain of an Army: A</u> <u>Popular Account of the German General Staff</u> (Westminster: 1895), 58-67; Smith, <u>U.S. Military Doctrine</u>, 50-54; Gooch, <u>Armies in Europe</u>, 21, 25-26, 69-70.

119. J.W. Fortescue, <u>A History of the British Army</u> (8 vols.; London: 1898-1930), I, 384-389, II, 15-26;

Lieutenant-Colonel John S. Omon, The Army and Parliament (Cambridge, U.K.: 1933), 15-40; Carelli Barnett, Britain and Her Army, 1509-1970 A Military, Political and Social Survey (New York: 1970), 166-170; Lawrence Delbert Cress, "Radical Whiggery on the Role of the Military: Ideological Roots of the American Revolutionary Militia," Journal of the History of Ideas XL (January-March 1979), 143-160; J.G.A. Pocack, "Machiavelli, Harrington, and English Political Ideologies in the Eighteenth Century," William and Mary Quarterly XXII third series (October 1965), 549-583; E. Arnold Miller, "Some Arguments Used by English Pamphleteers 1697-1700, Concerning A Standing Army," Journal of Modern History XVII (December 1946), 303-313; Louis G. Schowoerer, "The Literature of the Standing Army Controversy, 1697-1699," Huntington Library Quarterly XXVII (May 1965), 187-212; Cress, Citizens in Arms, 15-33.

120. Cress, "Radical Whiggery," 43-60; A.J. Barker, <u>Redcoats</u> (London: 1976), 121-132; Richard H. Kohn, <u>Eagle</u> and Sword the Federalists and the Creation of the Military <u>Establishment in America 1783-1802</u> (New York: 1975), <u>passim</u>.; Brigadier-General Williston B. Palmer, "American Policy on Raising Armies," in the <u>Evolution of Military</u> <u>Policy of the United States</u> (Carlisle Barracks: 1946), 21-24; Skelton, <u>U.S. Army</u>, 1-2; Mahan, <u>Militia/National Guard</u>, 14-34; John K. Mahon, <u>The American Militia: Decade of</u> <u>Decision, 1789-1800</u> (Gainesville: 1960), 2-7; Cunliffe, Soldiers & Civilians, 50-52; Hassler, Shield and Sword, 48; Gary Huxford, "Origins of the American Military Tradition Reconsidered," <u>Rocky Mountain Social Science Journal</u> VII (no. 2) (October 1971, 120-121.

121. Kohn, Eagle and Sword, 2.

122. American State Papers, Military Affairs, X, 141.

123. Benjamin F. Butler, <u>The Military Profession of the</u> <u>United States</u>, et. al. (New York: 1839), 8; also see, Adland Welly, <u>A Visit to North America and the English</u> <u>Settlements</u>, et. al., in Ruben Gold Twaites, compl., <u>Early</u> <u>Western Travels 1748-1846</u> (32 vols.; Cleveland: 1904-1907), XII, 304.

124. Captain M.W. Beeriman, <u>The Militia's Manual and</u> <u>Sword-Play</u>, et. al. (New York: 1864), I-II; Nathan C. Brooks, <u>A Complete History of the Mexican War: Its Cause</u>, Conduct and Consequences, et. al.

125. William H. Summer, <u>An Inquiry into the Importance</u> of the Militia to a Free Commonwealth (Boston: 1823), 7-8.

126. Ibid.

127. Eastwick Evans, <u>A Predestrious Tour, of Four</u> <u>Thousand Miles, Through the Western States and Territories</u>, et. al., in Twaites, compl., <u>Early Western Travels</u>, VIII, 168.

128. Philip St. George Cooke, <u>Scenes and Adventure in</u> the Army or Romance of Military Life (Philadelphia: 1857), 216-217. 129. J. Roemer, <u>Cavalry:</u> Its History, <u>Management</u>, and <u>Uses in War</u> (New York: 1863), 26-27; also see, "Esprit de Corps," <u>Military and Naval Magazine of the United States</u> II (December 1833): 231-235; Hoyt, Military Art, 15.

130. <u>Army and Navy Chronicle</u>, II (February 25, 1836), 116-117.

131. Cooke, Scenes and Adventures, 158.

132. "Militia of the United States," <u>Military and Naval</u> <u>Magazine of the United States</u> I (June, July, August 1833): 235.

133. United States Military Philosophical Society <u>Extracts</u> (December 28, 1809), 5; "The Army," <u>Military and</u> <u>Naval Magazine of the United States</u> I (August 1833), 333-339; "Spirit and Progress," 8-9.

134. John K. Mahon, "A Board of Officers Considers the Condition of the Militia in 1826," <u>Military Affairs</u> V (1951): 185-194; Mahon, <u>Militia/National Guard</u>, 46-94; Mahon, <u>American Militia</u>, 15-45; "Militia of the United States (1826 Board of Officers Report)," <u>Military and Naval</u> <u>Magazine of the United States</u> I (April, June, July 1833): 1-83, 235-243, 269-280; Paul T. Smith, "The Militia of the United States from 1846 to 1860," <u>Indiana Magazine of</u> <u>History and Biography</u> XV (March 1919): 20-47; Robert F. McGraw, "Minutemen of 61: the Pre-Civil War Massachusetts Militia," <u>Civil War History</u> XV (June 1969), 101-115; Ingersoll, War Department, 49-52; Cunliffe, Soldiers & <u>Civilians</u>, 186-241; Skelton, <u>U.S. Army</u>, 318-325; Cyril B. Upham, "Historical Summary of the Militia in Iowa, 1838-1865," <u>Iowa Journal of History and Biography</u> XVII (July 1919), 299-405; Joseph Holmes, "The Decline of the Pennsylvania Militia 1815-1870," <u>Western Pennsylvania</u> <u>Magazine</u> VII (April 1924), 199-212; "National Defense," 123; Watson, "Congressional Attitudes," 611-612; Palmer, "American Policy," 25-26; "Military Reforms," <u>New England</u> <u>Magazine</u> VII (July 1834), 51-59; Richard G. Stone, <u>A Brittle</u> <u>Sword: the Kentucky Militia, 1776-1912</u> (Lexington: 1977), 36-60.

Footnotes

Chapter II

1. Emil Schalk, <u>Summary of the Art of War: Written</u> <u>Expressly and Dedicated to the U.S. Volunteer Army</u>, (Philadelphia: 1862), 9.

2. Strachan, European Armies, 60-75.

3. "On War," (A Review from the London Metropolitan (June 1834) Military and Naval Magazine of the United States VI (September 1836), 50-65. <u>United States Military</u> Philosophical Society Extracts (January 30, 1808), 12.

4. In general, see: Jomini, <u>Art of War</u>, <u>passim</u>., Jomini, <u>Practice of War</u>, <u>passim</u>.; also see, H. Wagner Halleck, <u>Elements of Military Science</u>, et. al. (New York: 1861), 35-60, 131-132; Pierre G.T. Beauregard, <u>Principles</u> <u>and Maxims of the Art of War</u>, et. al. (3rd ed.; New Orleans: 1890), 3-12; Major-General M.W.S. Smith, <u>Modern Tactics of</u> <u>the Three Arms</u> (London: 1869), 54-120; Graham, <u>Art of War</u>, 2-33, 196-202; Magrath, <u>Art of War</u>, 2-4, 155-160; MacDougall, <u>Theory of War</u>, 2-52; C.P. Kingsbury, <u>An</u> <u>Elementary Treatise on Advanced Guard, Out-Post, and</u> <u>Detachment Service of Troops</u>, et. al. (New York: 1853), 29-32; for secondary sources, see, Hagerman, "Evolution of Trench Warfare," 197-202; Edward H. Hagerman, The Evolution of Trench Warfare and the American Civil Warfare (Ph.D. dissertation, Duke University, 1965), II-III, 5-20; Holyroyd, "Bourbon Army," 529-552; John I. Alger, The Quest for Victory the History of the Principles of War (Westport: 1982), 19-44; Ropp, War, 132-133; Lieutenant-General von Caemmerer, The Development of Strategical Science in the 19th Century (London: 1905), 29-65; Crane Brinton, Gordon A. Craig and Felix Gilbert, "Jomini", in Edward Meade Earle, ed., Makers of Modern Strategy Military Thought from Machiavelli to Hitler (Princeton: 1944), 77-92; Michael Howard, The Theory and Practice of War Essays Presented to Captain B.H. Liddell Hart, et. al. (New York: 1966), 3-20; Liddell Hart, Napoleon, 104-118; B.H. Liddell Hart, Strategy, the Indirect Approach (New York: 1954), 113-145; Jay Luvass, "Military History: Is It Still Practicable?" Parameters XIV (May 1982), 5-6; John R. Elting, "Jomini: Disciple of Napoleon?" Military Affairs XXVIII (Spring 1964), 17-26; George Allen, "The Life of Jomini," United States Service Magazine II (October 1864), 351-364; M.D. Field, "Middle Class Society and the Rise of Military Professionalism in the Dutch Army, 1589-1609," Armed Forces and Society I (August 1975): 419-442; Strachan, European Armies, 60-75; David Chandler, The Art of Warfare on Land (London: 1974), 173.

5. "Militia (Board of Officers)", 237; U.S. Military Philosophical Society Extracts (January 30, 1808), 12; Childs, <u>Armies and Warfare</u>, passim.; Westerner, "Armies," 190-217; Scott, "Professionalization/French Officer Corps," 5-56; Bein, "Army/French Enlightenment," 68-98; Lyman Montross, <u>War Through the Ages</u> (New York: 1944), 313-420; Martin Kitchen, <u>A Military History of Germany from the</u> <u>Eighteenth Century to the Present Day</u> (Bloomington: 1975), 7-28; Strachan, <u>European Armies</u>, 8-37.

6. Nickerson, Armed Horde, 40-52; Steven Ross, From Flintlock to Rifle Infantry Tactics, 1740-1866 (London: 1979), 13-36; Field Marshal, Viscount of El Alamein, Bernard Montgomery, A History of Warfare (Cleveland: 1968), 263-274, 322-330; H.W. Koch, The Rise of Modern Warfare 1618-1815 (Englewood Cliffs: 1981), 17-18, 29-32; Colonel Herman Foertscer, The Art of Modern Warfare (New York: 1940), 64-70; G.C. Shaw, Supply in Modern War (London: 1938), 23-50; David Maland, Europe at War 1600-1650 (Tatowa: 1980), passim.; Hackett, Profession of Arms, 17-25; Howard, War/European History, 46-50, 56-71; McNeill, Pursuit of Power, 122-141, 154-159; Chandler, Art of War, 103-149; Geoffrey Parker, "The Military 'Revolution' 1560-1650, a Myth?:" Journal of Military History XLVIII (June 1976): 195-214; Goltz, Nation in Arms, 3-5; Liddell Hart, Napoleon, 16-19; John W. Wright, "Sieges and Customs of War at the Opening of the Eighteenth Century," American Historical Review XXXIX (July 1934), 629-644; Colonel Theodore Ayroult Dodge, Gustavas Adolphus: A History of the Art of War from

its Revival after the Middle Ages to the End of the Spanish Succession, et. al. (2 vols.; Boston: 1895), I, 20-36; Roberts, <u>Military Revolution</u>, <u>passim</u>.; Fortescue, <u>British</u> <u>Army</u>, I, 127-172; Montross, <u>War</u>, 313-327; Commandant J. Colin, <u>France and the Next War A French View of Modern War</u> (London: 1914), 4-7; Colonel Treveor N. Dupuy, <u>The</u> <u>Evolution of Weapons and Warfare</u> (Indianapolis: 1980), 133-138; Christopher Duffy, <u>Siege Warfare the Fortress in the</u> <u>Early Modern World 1494-1660</u> (London: 1970), <u>passim</u>.; J.V. Polisvensky, <u>War and Society in Europe 1618-1648</u> (Cambridge: 1978), passim.

7. Vatell, <u>Law of Nations</u>, II, 235; <u>Ibid</u>., II, 245; <u>U.S. Military Philosophical Society Extracts</u> (December 30, 1809), 12, 13; Graham, <u>Art of War</u>, 7; "Modern Tactics," 1, also see, Magrath, <u>Art of War</u>, 3-4; Reginald C. Stewart, <u>War</u> <u>and American Thought from the Revolution to the Monroe</u> <u>Doctrine</u> (Kent: 1982), 1-30; Edward D. Mansfield, <u>The</u> <u>Utility and Services of the United States Military Academy</u> (New York: 1847), 20; Jomini, <u>Practice of War</u>, 70.

8. Jomini, Practice of War, 70.

9. Jacob K. Neff, <u>The Army and Navy of America</u>, et. al. (Philadelphia: 1845), 11.

10. Halleck, <u>Military Art</u>, 39, 43; Parker, "'Military Revolution'," 195-214; Captain Ed. De La Deparcq, <u>Elements</u> <u>of Military Art and History</u>, et. al. (New York: 1863), 47-67; Baron de Jomini, <u>Treatise on Grand Military Operations</u> or a Critical and Military History of the Wars of Frederick the Great, et. al. (2 vols.; New York: 1865), passim.; Smith, Modern Tactics, 34-45; Dodge, Gustavas Adolphus, I, 30-39; Colonel E.M. Lloyd, <u>A Review of the History of</u> Infantry (London: 1908), 83-88, 107-111, 151-156, 174-175; Montgomery, Warfare, 263-274, 233-327; John U. Neff, War and Human Progress an Essay on the Rise of Industrial Civilization (Cambridge: 1950), 251-267, 306-310; Montross, War, 313-327, 380-403; Nickerson, Armed Horde, 40-52; Ross, Flintlock to Rifle, 13-36; Captain Archibald F. Becke, An Introduction to the History of Tactics 1740-1905 (London: 1909), 3-15; Foertsch, Modern War, 64-70; Magrath, Art of War, 140-153; Colin, France/Next War, 6-32; Baker, Redcoats, 9-14, 19-29; Fortescue, British Army, I, 127-190; Chandler, War, 103-146; J. Koch, Warfare 1618-1815 (Englewood Cliffs: 1981), 17-18, 29-37, 138=163; Westerner, "Armies", 190-217; Gooch, Armies, 16-20; Millis, Arms and Men, 16-21; Preston and Wise, Men In Arms, 133-145; Herbert Rosinski, The German Army (New York: 1940), 7-41; Parker, "'Military Revolution'," 195-214; Ropp, War, 19-42; Kitchen, Military History of Germany, 17-28; Howard, War/European History, 46-70; Colonel J.F.C. Fuller, British Light Infantry Tactics in the Eighteenth Century (London: 1925), 26-28, 31-34, 61-75. Napoleon, Napoleon's Maxims of War the Officers Manual (New 1957), passim.; Quimby, Background of Napoleonic York: Warfare, passim.; Nickerson, Armed Horde, 74-125; Montgomery, <u>Warfare</u>, 345-362; Sir Charles Oman, <u>Studies in</u> <u>the Napoleonic Wars</u> (London: 1929), passim.; Rose, <u>Flintlock to Rifle</u>, 69-79, 81-88; Beck, <u>History of Tactics</u>, 13-88; Jeffery Kimball, "The Battle of Chippewa: Infantry Tactics in the War of 1812," <u>Military Affairs XXI</u> (Winter 1967-1968), 169-186; Alger, <u>Quest for Victory</u>, 17-18; Gunter F. Rothenberg, <u>The Art of War in the Age of Napoleon</u> (Bloomington: 1980), <u>passim</u>.

11. Caemmerer, <u>Strategical Science</u>, 11-17; Preston and Wise, <u>Men in Arms</u>, 182-200; Collins, <u>France/ Next War</u>, 94-111; Crevald, <u>Supplying War</u>, 49-55; Commandant J. Collins, <u>The Transformation of War</u> (reprint; Westport: 1977 (1912)), 109-119; Montross, <u>War</u>, 450-458; Harold T. Parker, <u>Three</u> <u>Napoleonic Battles</u> (Durham: 1944), passim.

12. R.M. Johnston, "The Geometrical Factor in Napoleon's Generalship," <u>Papers of the Military Historical</u> <u>Society of Massachusetts XIV (1918), 423-433; Kendall, Land</u> <u>Warfare, 121-140; Hackett, Profession of Arms, 29-35.</u>

13. Strachan, <u>European Armies</u>, 38-58; Pivka, <u>Armies/Napoleonic Era</u>, 83-86; Count York von Wartenburg, <u>Napoleon as a General</u> (2 vols.; s.l.: 1898), <u>passim</u>.; David Chandler, <u>Campaigns of Napoleon</u> (New York: 1956), <u>passim</u>.; Chandler, <u>War</u>, 149-154; John Keegan, <u>Face of Battle</u> (New York: 1976), 144-195.

14. Liddell Hart, <u>Napoleon</u>, 104-118; Grady McWhiney and Perry P. Jamieson, <u>Attack and Die Civil War Military</u> Tactics and the Southern Military Heritage (s.l.: 1982), 1-54; Huntington, Soldier and State, 1-32, 195-220; Rothenberg, "Austrian Army," 155-165; Preston and Wise, <u>Men</u> <u>In Arms</u>, 133-149, 182-196, 208-210; Wilkinson, <u>French Army</u>, 14-15; Fuller, <u>Conduct of War</u>, 44-55, 100-112; note, Hattaway and Jones, <u>How the North Won</u>, 14, hopelessly confused the use of the turning movement by American Jominianists such as Halleck and Beauregard, in their writings, with an alleged opposition to the frontal assault.

15. Caemmerer, Strategic Science, 76-111; Liddell Hart, Napoleon, 118-144; H. Rathfels, "Clausewitz: in Edwards, Modern Strategy, 96-113; Wilkerson, French Army, 16-17; Luvaas, "Military History," 6; B.M. Simpson, III, "The Essential Clausewitz," Naval War College Review XXXV (March-April 1982), 54-61; General Ferdinand Foch, The Principles of War (New York: 1918), 1-47; Captain H.M. Johnstone, The Foundations of Strategy (London: 1914), passim.; Peter Paret, Clausewitz and the State (New York: 1976), passim.; Gooch, Armies, 38-41; Peter Paret, "Education, Politics, and War in the Life of Clausewitz," Journal of the History of Ideas XXIX (July-September 1968), 394-408; Peter Paret, "Nationalism and the sense of Military Obligation," Military Affairs XXXIV (February 1970), 2-6; Peter Paret, York and the Era of Prussia Reform 1807-1815 (Princeton: 1966), passim.; Denis E. Showalter, "The

Prussian Landwehr and its Critics: 1813-1819," <u>Central</u> European History IV (March 1971), 3-33.

16. Peter Paret, "Clausewitz and the Nineteenth Century," Howard, Theory and Practice, 32-41; Strachan, European Armies, 90-107; Gorlitz, German General Staff, 25-68; Ropp, War, 114-119, 134-142; Bernard Brodie, "On Clausewitz: A Passion for War," <u>World Politics</u> XX (January 1973), 288-308; Lieutenant-Colonel Edward M. Collins, "Clausewitz and Democracy's Small Wars," Military Affairs XIX (Spring 1955), 115-120; Michael Howard, "The Forgotten Dimensions of Strategy," Foreign Affairs LVII (Summer 1979), 975-976; Herbert Rosinski, "Scharnhorst to Schlieffen: The Rise and Decline of German Military Thought," Naval War College Review XXIX (Summer 1976), 83-103; Craig, Prussian Army, 25-46; Kitchen, Military History/Germany, 33-71; Rosinski, Germany Army, 66-85; Roger Parkinson, Clausewitz: A Biography (London: 1970), 96-110; Colonel T.N. Dupuy, A Genius for War the German Army and General Staff 1807-1945 (Englewood Cliffs: 1977), 17-43.

17. For supporters of this position, see: David Donald, <u>Lincoln Reconsidered</u> (New York: 1956), 89, 87-102; T. Harry Williams, "The Military Leadership of North and South," in David, Donald, ed. <u>Why the North Won the Civil</u> <u>War</u> (s.l.: 1960), 23-47; Pohl, "Jomini/Scott", 86-110; Hagerman, "From Jomini to Dennis Hart Mahan", 189-199; Edward Hagerman, "The Professionalization of George B.

257

McClellan and Early Field Command: An Institutional Prospective," <u>Civil War History</u> XXII (June 1975), 113-115; Russel F. Weigley, <u>Towards an American Army Military Thought</u> <u>from Washington to Marshal</u> (New York: 1962), 5067; the opposing (and I believe historically unsound position) is presented in: Hattaway and Jones, <u>How the North Won</u>, 12-14, 21-24; McWhiney and Jamieson, <u>Attack and Die</u>, 151-154; Joseph L. Harsh. "Broadsword and Rapier: Clausewitz, Jomini, and the American Civil War," <u>Military Affairs</u> XXVIII (December 1970), 127-131; for a direct criticism of the position that Jomini was not influential on American military thinking or was an effective strategist as regards the Civil War, see, T. Harry Williams, "The Return of Jomini? -- Some Thoughts on Recent Civil War History," <u>Military History XXIX</u> (December 1975), 204-206.

_18. United States War Department, Infantry Tactics (Washington, D.C.: 1836), <u>passim.</u>; <u>Army and Navy Chronicle</u> I (1835-1836), 101, 119-120, 126, 133-134, 270; "Military Tactics", <u>Military and Naval Magazine of the United States</u> VI (September 1835), 166-178. United States War Department, <u>Rules and Regulations for the Field Exercise and Manoeuvres</u> <u>of the Infantry</u>, et. al. (Concord: 1817), <u>passim</u>.; also see, for a precise statement of the function of drill in the Antebellum ed., John Holbrook, compl., <u>Military Tactics</u>: <u>Applied to the Different Corps in the United States</u>, et. al. (Middletown: 1826), 15-19. 19. Roemer, <u>Cavalry</u>, 37, 22-23. Colonel J.F.R. Henderson, <u>The Science of War A Collection of Essays and</u> <u>Lectures 1892-1903</u> (London: 1905), 51-61; James P. Lunt, <u>Charge to Glory</u> (New York: 1960), 31-37; Major-General J.F.C. Fuller, <u>Armaments and History</u> (New York: 1945), 109-118; Colonel George T. Denison, <u>A History of Cavalry from</u> <u>the Earliest Times With Lessons for the Future</u> (reprint; London: 1913), 420-430; Fuller, <u>Conduct of War</u>, 104-130; John Ellis, <u>Cavalry the History of Mounted Warfare</u> (New York: 1978), 140-150.

20. Count von Bismark, <u>Lectures on the Tactics of</u> <u>Cavalry</u> (London: 1827), 41-42; Ellis, <u>Cavalry</u>, 81-82; Denison, <u>Cavalry</u>, 210-214; B.H. Liddell Hart, <u>The Decisive</u> <u>Wars of History: A Study in Strategy</u> (Boston: 1929), 57-59; Ropp, <u>War</u>, 23-29; Liddell Hart, <u>Napoleon</u>, 16-17; McNeill, <u>Pursuit of Power</u>, 122-125; Koch, <u>Warfare</u>, 29-37; Dupuy, <u>Weapons and Warfare</u>, 133-140; Dodge, <u>Gustavus</u> <u>Adolphus</u>, I, 40-41.

21. Ellis, <u>Cavalry</u>, 82-84; Bismark, <u>Lectures</u>, 41-42; Denison, <u>Cavalry</u>, 214-217; Strachan, <u>European Armies</u>, 16-17; Dupuy, Weapons and Warfare, 134-135.

22. Captain L.E. Nolan, <u>Cavalry, Its History and</u> <u>Tactics</u> (Columbia: 1864), 18-22; Magrath, <u>Art of War</u>, 146-147, 153-154; Beck, <u>Tactics</u>, 9-10; Preston and Wise, <u>Men in</u> <u>Arms</u>, 133-149; Koch, <u>Warfare</u>, 138-163; J.M. Brereton, <u>The</u> Horse in War (New York: 1976), 69-71; Liddell Hart, <u>Napoleon</u>, 18-19; Christopher, <u>The Army of Frederick The</u> <u>Great</u> (New York: 1974), 93-109; Ropp, <u>War</u>, 29-31; Rosinski, <u>German Army</u>, 7-41; Colonel T.N. Dupuy, <u>A Genius for War the</u> <u>German Army and General Staff 1807-1945</u> (Englewood Cliffs: 1977), 12-16.

23. Roemer, <u>Cavalry</u>, 331-336; Ellis, <u>Cavalry</u>, 92-100; Duffy, <u>Frederick The Great</u>, 96-103; Brereton, <u>The Horse</u>, 69-71.

24. Ellis, Cavalry, 43; Bismark, Lectures, 43.

25. Nolan, <u>Cavalry</u>, 23-25; Denison, <u>Cavalry</u>, 284-299; Preston and Wise, <u>Men in Arms</u>, 184-197; Fuller, <u>Armament</u>, 106-107; Fuller, <u>Conduct of War</u>, 44-52; Koch, <u>Warfare</u>, 191-237; Brereton, <u>The Horse</u>, 75-77; Cyril Falls, <u>The Art of</u> <u>Warfare from the Age of Napoleon to the Current Day</u> (New York: 1961), 44-52; William McElwee, <u>The Art of War</u>, <u>Waterloo to Mons</u> (Bloomington: 1974), 14-25; Strachan, <u>European Armies</u>, 41-42, 50; Nickerson, <u>Armed Horde</u>, 74-77; James Lunt, "Napoleon's Cavalry," <u>History Today</u> V (November), 747-759; Lunt, <u>Charge</u>, 25-27; Quimby, <u>Background</u> to Napoleonic Warfare, 133-138.

26. Jomini, Art of War, 280.

27. Bismark, Lectures, 139-140.

28. Ibid., 141.

29. Jomini, <u>Art of War</u>, 280; Halleck, <u>Elements</u>, 28; Mahan, Outpost, 57. 30. Captain C.M. Wilcox, <u>Rifles and Rifle Practice:</u> <u>An Elementary Treatise Upon the Theory of Rifle Firing</u>, et. al. (New York: 1859), 167-174; Jerrold, <u>French Under Arms</u>, 109-110; Lunt, <u>Charge</u>, 28-29; Major Alfred Mordecai, <u>Military Commission to Europe in 1855 and 1856</u>, et. al. (Washington, D.C.: 1860), 157-160; T.H. McGuffie, "Musket and Rifle," <u>History Today</u> VII (April, July 1957), 472-475; Rothenberg, <u>Art of Warfare</u>, 72-73; Major Arcadi Glickman, <u>United States Martial Pistols and Revolvers</u> (Buffalo: 1939), 73-87; Fuller, Armament, 106-111.

31. Lieutenant-Colonel George T. Denison, <u>Modern</u> <u>Cavalry: Its Organization, Armament and Employment in War</u>, et. al. (London: 1868), 6.

32. Mahan, Outpost, 44.

33. Halleck, Elements, 128.

34. Nolan, <u>Cavalry</u>, 75; very strong support for the lance was voiced in Marmont, Modern Armies, 36-39.

35. Bismark, Lectures, 141.

36. Ibid.

37. Denison, <u>Modern Cavalry</u>, 39; T.H. McGuffie, "The Lance in Battle," <u>History Today</u> VIII (August 1958), 574-580; "The Lance," <u>Journal of the United States Cavalry</u> <u>Association</u> III (June 1890), 210-216.

38. Schalk, <u>Art of War</u>, 61-62; Marmont, <u>Modern Armies</u>, 38-39; Captain G.B. Pritchard, "The Saber," <u>Journal of the</u> U.S. Cavalry Association XVIII (January 1908), 521-535; Jean de Bloch, <u>The Future of War</u>, et. al. (Boston: 1899), 11-14; Nickerson, <u>Armed Horde</u>, 145-152; Dupuy, <u>Weapons and Warfare</u>, 191-193; Fuller, <u>Armament</u>, 106-111; also see, in general, Harold L. Peterson, <u>The American Sword 1745-1945</u>, et. al. (New York: 1954).

39. Denison, <u>Cavalry</u>, 426; Denison, <u>Modern Cavalry</u>, 29; Buckholtz, <u>Tactics</u>, 27; Craighill, <u>Pocket Companion</u>, 71-72; Bismark, <u>Lectures</u>, 139-140; Ellis, <u>Cavalry</u>, 85-86; Prince Zu Hohen-Lohe-Inglefingen Kraft, "Lessening the Field of Cavalry Work in Battle through the Improvements in Firearms," <u>Journal of the U.S. Cavalry Association</u> II (March 1889), 66-73.

40. Craighill, <u>Pocket Companion</u>, 76-83, 179-188; also see the following cavalry manuals: Frederich von Arenschidt, <u>Instructions for Officers and Non-Commissioned</u> <u>Officers of Cavalry</u>, et. al. (Richmond: 1861); Philip St. George Cooke, <u>Tactics or Regulations for Motions and</u> <u>Movements of the Cavalry</u>, et. al. (2 vols.; Washington, D.C.: 1862); Samuel Cooper, <u>Cooper's Cavalry Tactics for</u> <u>the use of Volunteers</u>, et. al. (New Orleans: 1861); Robert Hewes, <u>Rules and Regulations for the Sword Exercise of the</u> <u>Cavalry</u>, et. al. (2d ed.; Boston: 1802); D.H. Maury, <u>Skirmish Drill for Mounted Troops</u> (Richmond: 1861); Major-General George B. McClellan, <u>Regulations for the Service of</u> <u>Cavalry in Time of War</u> (Philadelphia: 1863); George Patten, <u>Cavalry Drill and Saber Exercise</u>, et. al. (Richmond: 1862); Colonel James B. Swan, Rules, Regulations, Forms and Suggestions for the Instruction and Guidance of the U.S. Cavalry (New York: 1863); United States War Department, Cavalry Tactics School of the Trooper, of the Platoon, and the Squadron (3 vols.; Philadelphia: 1861); United States War Department, Cavalry Tactics, First and Second Parts, School of the Trooper, et. al. (Washington, D.C.: 1863); Major Joseph Wheeler, A Revised System of Cavalry Tactics, (Mobile: 1863); also see, J. Reedstrom, "U.S. et. al. Cavalry Tactical Manuals," in United States Commission on Military History, Colloquium on Military History Proceedings (Chicago: 1979), 74-84; see as well, Colonel Francis J. Lippet, A Treatise on the Tactical Use of the Three Arms: Infantry, Artillery, and Cavalry (New York: 1865), 93-134.

41. Nolan, Cavalry, 60.

42. Roemer, <u>Cavalry</u>, 38-39; also see, Mahan, <u>Outpost</u>, 43-44; Jomini, <u>Art of War</u>, 280-281; Marmont, <u>Modern Armies</u>, 35.

43. Denison, <u>Modern Cavalry</u>, 210-211; Jomini, <u>Art of</u> <u>War</u>, 280-281; Marmont, <u>Modern Armies</u>, 35-36; Magrath, <u>Art of</u> War, 138-139.

44. Colonel J. Lucas Davis, <u>The Trooper's Manual on</u> <u>Tactics for Light Dragoons and Mounted Riflemen</u> (Richmond: 1861), VIII; see as well, Denison, <u>Modern Cavalry</u>, 10-11, 210-211; Jomini, <u>Art of War</u>, 282-283; Major E.T.H. Hutton, "Mounted Infantry--Its Present and Its Future Use," Journal of the Military Service Institutions of the United States X (1889), 340-356; Captain J.R. Lumley, "Mounted Riflemen," Ordnance Notes no. 169 (November 2, 1881), 1-14.

45. Mahan, <u>Outpost</u>, 44; see as well, Nolan, <u>Cavalry</u>, 48-52; Denison, <u>Cavalry</u>, 284-285; Marmont, <u>Modern Armies</u>, 34; Brereton, The Horse, 74-76.

46. Cooke, <u>Scenes and Adventures</u>, 265; Major William Gelhorn, <u>Manual of Instruction for the Volunteers and</u> Militia of the United States (Philadelphia: 1861), 697.

Roemer, <u>Cavalry</u>, 137; also see, Lendy, <u>Maxims</u>,
 156-163.

48. Buckholtz, <u>Tactics</u>, 26-27; Roemer, <u>Cavalry</u>, 135-137; Mahan, <u>Outpost</u>, 39.

49. Bismark, Lectures, 72.

50. Captain Emric Szabad, <u>Modern War: Its Theory and</u> <u>Practice</u> (New York: 1863), 67.

- 51. Roemer, Cavalry, 62.
- 52. Nolan, Cavalry, 135.
- 53. Mahan, Outpost, 38-39; Marmont, Modern Armies, 34.
- 54. Halleck, Elements, 125; Napoleon, Maxims, 136.
- 55. Napoleon, Maxims, 136.
- 56. Roemer, Cavalry, 62.
- 57. Ibid., 63.
- 58. Bismark, Lectures, 63.
- 59. Nolan, Cavalry, V.

60. Norman Dixon, <u>On the Psychology of Military</u> <u>Incompetence</u> (New York: 1976), 116.

61. Roemer, Cavalry, 37, 22-23.

62. Buckholtz, Tactics, 26.

63. Nolan, Cavalry, V; Mahan, Outpost, 39.

64. Roemer, <u>Cavalry</u>, 25; also see, Major M.I. Dunn, <u>A</u>

Military Pocket Manual for Military Officers (Cincinnati:

1837), 7; Jomini, Art of War, 277.

65. "Army of the U.S.", 27.

66. Clausewitz, On War, 285-291.

Footnotes

Chapter III

1. Charles Francis Adams, <u>Studies Military and</u> <u>Diplomatic 1775-1868</u> (New York: 1911), 59-113.

2. "Army of the U.S.", 26.

3. Thomas Thiele, <u>The Evolution of Cavalry in the</u> <u>American Civil War, 1861-1863</u> (Ph.D. dissertation, University of Michigan, 1951), 4-6; Skelton, <u>U.S. Army</u>, 341-342; Wormser, <u>Yellowlegs</u>, 36-39; Major Albert Gallatin Brackett, <u>History of the United States Cavalry</u> (New York: 1865), 14-33; Major-General John K. Herr and Edward S. Wallace, <u>The</u> <u>Story of the United States Cavalry 1775-1942</u> (Boston: 1953), 21-22.

4. "Military Establishment", 77.

5. The Legion, derived from French Military theory, was a precursor of the division, more correctly, a combined arms battle group, somewhat larger than a brigade.

6. Jacobs, <u>U.S. Army</u>, passim; also see, Richard Wormser, <u>The Yellowlegs the Story of the United States</u> <u>Cavalry</u> (Garden City: 1966), 36-39; Alan S. Brown, "The Role of the Army in Western Settlement: Josiah Harmon's Command, 1785-1790." <u>Pennsylvania Magazine of History and</u> Biography XCIII (April 1969), 161-178; Roger C. Nichols,

266

"The Army and the Indians 1800-1830 - A Reappraisal: The Mississippi Valley Example", <u>Pacific Historical Review</u> LXI (May 1972), 151-156; Craig Symonds, "The Failure of America's Indian Policy on the Southwestern Frontier, 1785-1793", <u>Tennessee Historical Quarterly</u> XXXV (Spring 1976), 303-325.

7. Skelton, "Professionalization", 461-465.

8. (Lewis Cass), <u>Regulations Concerning the Removal</u> of the Indians (Washington, D.C.: 1832), is the sole example of an official guide for U.S. Army officers, as regards all aspects of Indian management and control. This skimpy, 15 page guide is more aptly not a policy guide as such, but simply orders directing the movement of the Cherokee Indians to the Oklahoma Territory.

9. Skelton, U.S. Army, 138.

10. Stephen Watts Kearny, "Journal of Stephen Watts Kearny," ed. by Valentine Watts Pointer, <u>Missouri Historical</u> <u>Society Collections</u> XI (1908): 8-29, 99-139; "Journal of the Atkinson-O'Fallin Expedition," ed. by Russell Reid and C.G. Gannon, <u>Nebraska History</u> IV (October 1929), 5-56; Surgeon John Cole, <u>The Missouri Expedition 1818-1820 the</u> Journal of Surgeon John Cole, et. al., ed. by Roger L. Nichols (Norman: 1969), <u>passim</u>.; also see, Roy H. Mattison, "The Military Frontier of the Upper Missouri," <u>Nebraska</u> <u>History</u> XXXVII (1956), 159-182; Richard E. Mueller, "Jefferson Barracks, the Early Years," Missouri Historical Review LXVII (October 1972), 7-11; Colonel Forrest R. Blackburn, "Fort Leavenworth: Logistical Base for the West," <u>Military</u> <u>Review</u> LIII (December 1973), 3-12; Nichols, "Army and the Indians," 151-168; Robert G. Athearn, <u>Forts of the Upper</u> <u>Missouri</u> (Englewood Cliffs: 1967), 2-5; Silver, <u>Gaines</u>, 89-105; Sally A. Johnson, "The Sixth's Elysian Fields - Fort Atkinson on the Council Bluffs," <u>Nebraska History</u> XL (March 1959): 1-38; Brad Agnew, <u>Fort Gibson, Terminal of the Trail</u> <u>of Tears</u> (Norman: 1980), 1-35; Grant Foreman, <u>Advancing the</u> <u>Frontier 1830-1860</u> (Norman: 1933), 1-30; Henry Putney Beers, <u>The Western Military Frontier 1815-1846</u> (Philadelphia: 1935), 3-89; Frederic L. Paxson, <u>History of the</u> <u>American Frontier 1763-1893</u> (Boston: 1924), 275-285.

11. Josiah Gregg, <u>Commerce of the Prairies</u> (reprint; Dallas: 1933 (1844)), 1-11.

12. Charles R. McClure, "Neither Effective Nor Financed the Difficulties of Indian Defense in New Mexico, 1837-1846," <u>Military History of Texas and the Southwest</u> X (1974): 73-92.

13. Benton, <u>Thirty Years View</u>, II, 41-44; "Indian Outrages," <u>Niles' Weekly Register</u> XXV (November 29, 1828), 214; Henry H. Goldman, "A Survey of the Federal Escorts on the Santa Fe Trail 1829-1843," <u>Journal of the West</u> V (October 1966), 504-505; Stephen Sayles, "Thomas Hart Benton and the Santa Fe Trail," <u>Missouri Historical Review</u> LXIX (October 1974), 1-22. 14. "Major Bennet Riley's Report on the 1829 Escort," 21 Cong., 1 sess. S. Doc. 46, serial 182; also see, "Movement of Troops," <u>Niles' Weekly Register</u> XXVI (May 16, 1829), 182.

15. Cooke, <u>Scenes</u>, 59; in addition, see, Otis E. Young, <u>The West of Philip St. George Cooke, 1809-1895</u> (Glendale: 1955), 33-36.

16. "Employment of Volunteer Mounted Gun-Men on Western Duty", 20 Cong., 1 sess., H. doc. 234, serial 174; "Defense Western Frontier-Organization, Staff, Army," 25 Cong., 2 sess., H. ex. doc. 114, serial 325; "Description and estimate of Complete Line of Defense by Military Works, on Western Frontier," 25 Cong., 2 sess., <u>Mil. Aff.</u> 369, <u>ASPO</u> 22; "Frontier U.S. Defense of Northern and Western," 25 Cong., 3 sess., H. doc. 177, serial 346; "Plans for Defense and Protection of Western Frontiers, and Number of Indians on those Frontiers," 25 Cong., 2 sess., <u>Mil. Aff.</u>, 735, <u>ASPO</u> 22; "Western Frontier Correspondence on the Subject of the Protection of the Western Frontier", et. al., 25 Cong., 2 sess., H. doc. 276, serial 328.

17. "United States Dragoons", <u>Niles' Weekly Register</u> XLVI (August 2, 1834), 389-390; "Miscellaneous" (report on the Leavenworth-Dodge Expedition) <u>Niles' Weekly Register</u> XLVII (September 20, 1834), 38; "Expedition of the Dragoons to the West", <u>Niles' Weekly Register</u> XLVIII (October 4, 1834), 74-76; "From the Dragoons", <u>Niles' Weekly Register</u> XLIX (October 17, 1835), 106; "The Dragoons," Niles' Weekly Register XLVII (February 7, 1835), 403-404; Captain Thomas Bucknell, "The Journals of Capt. Thomas Bucknell from Boone's Lick to Santa Fe and from Santa Cruz to Green River," Missouri Historical Review III (January 1910); 65-84; Kearny, "Journal 1820", 5-29; see as well, Edgar Bruce Wesley, Guarding the Frontier: A Study of Frontier Defense from 1815 to 1825 (St. Paul: 1935), passim.; Otis E. Young, The First Military Escort on the Santa Fe Trail 1829 (Glendale: 1952), passim.; David Lavender, Bent's Fort (Garden City: 1954), 156-159; J. Evarts Greene, "The Santa Fe Trade: Its Route and Character", Journal of the U.S. Cavalry Association X (September 1897), 264-277; G.C. Broadhead, "The Santa Fe Trail", Missouri Historical Review IV (1910), 309-319; Henry Putney Beers, "Military Protection of the Santa Fe Trail to 1845", New Mexico Historical Review XII (1937), 113-137; Ray Allen Billington, The Far Western Frontier (New York: 1962), 23-28, 37-38; William Fran Morrison, Military Posts and Campaigns in Oklahoma (Oklahoma City: 1936), 1-11; Leo Olivia, Soldiers on the Santa Fe Trail (Norman: 1967), 3-34; Louis Pelzer, Marches of the Dragoons in the Mississippi Valley, et. al. (Iowa City: 1917), 1-11; Fred S. Perrine, "Military Escorts on the Santa Fe Trail," New Mexico Historical Review II (April, July 1927), 75-193, 269-304, III (July 1928), 265-300; Susan Koester, "The Threat Along the Santa Fe Trail", Pacific <u>Historian</u> XVII (Winter 1973), 13-29; Paxson, <u>American</u> <u>Frontier</u>, 322-330; William R. Manning, "Diplomacy Concerning the Santa Fe Road," <u>Mississippi Valley Historical Journal</u> I (March 1915), 516-531; Goldman, "Federal Escorts," 504-516.

18. Francis Prucha, <u>Swords of the Republic</u> (Bloomington: 1977), 235-336.

19. Prucha, <u>Swords</u>, 239; also see, Brevet Major-General Edmond P. Gaines, "General Principles Concerning the Militia of the United States, <u>American State Papers</u>, Military Affairs, IX, 407, appendix G, 135.

20. William T. Hagan, "General Henry Atkinson and the Militia," <u>Military Affairs</u> XXIII (Winter 1959-1960), 194-197; Nichols, Atkinson, 152-175.

21. Zachary Taylor, "Zachary Taylor and the Black Hawk War", (Letters), ed. by Hamilton Holman, <u>Wisconsin Magazine</u> of History XXIV (March 1941), 310; <u>The Black Hawk War 1831–</u> 1832 Collections of the Illinois State Historical Library (2 vols.; Springfield: 1973), II, 724-728.

22. "United States Dragoons," <u>Military and Naval</u> Magazine of the United States I (April 1833), 118.

23. Black Hawk War, I, 435-436.

24. "Mounted Troops, <u>Debates In Congress</u>, H. of Rep. (June 9, 1832), 3390.

25. Ibid., 3387-3388, 3391.

26. Ibid., 3392.

27. Ibid., 3395.

28. <u>Ibid</u>.

John C. Callan, The Military Laws of the United 29. States, et. al. (Baltimore: 1856), 22 Cong., 1 sess., Pub. Laws, ch. 131, 533, 306; also see, "Relative to the Efficiency of Mounted Volunteers for the Protection of the Frontiers", American State Papers, Military Affairs, XVIII, 380, 821-829; "Army of the U.S.", 24-25; "U.S. Dragoons", 18-19; Washington Irving, A Tour of the Prairies (reprint; 1956 (1836)), 45-105; see as well, Otis E. Young, Norman: "The United States Mounted Ranger Battalion, 1832-1833", Mississippi Valley Historical Review XLI (December 1954), 453-470; Louis Pelzer, Henry Dodge (Iowa City: 1911), 62-79; Brevet Brigadier-General Theo F. Rodenbaugh and Major William C. Haskin, The Army of the United States (New York: 1896), 153-159; John Tobel and Keith Jamison, The American Indian Wars of Two Centuries (New York: 1874), 313-329; T. Harry Williams, The History of American Wars from 1745-1918 (New York: 1981), 140-141; Anthony F.C. Wallace, Prelude to Disaster: The Course of Indian White Relations which Led to the Black Hawk War of 1832 (Springfield: 1970), passim.; Brackett, U.S. Cavalry, 34; Prucha, Swords, 245-274; Herr and Wallace, U.S. Cavalry, 20-25; Colonel Oliver Lyman Spaulding, The United States Army in Peace and War (New 1937), 169-170; Stephen Z. Starr, The Union Cavalry York: in the Civil War (2 vols.; Boston: 1979-1981), I, 48; Hassler, Shield and Sword, 111-112; Silver, Gaines, 142-146;

Agnew, Fort Gibson, 74-76; Skelton, <u>U.S. Army</u>, 345-346; Elliott, <u>Scott</u>, 260-261; Cecil Ely, <u>That Disgraceful Affair:</u> <u>The Black Hawk War</u> (New York: 1973), <u>passim</u>.; Frank E. Stevens, <u>The Black Hawk War</u>, et. al. (Chicago: 1903), <u>passim</u>.; Scott, <u>Memoirs</u>, I, 217-232; Thiele, <u>Evolution of</u> <u>Cavalry</u>, 10-11; M.M. Quafe, compl., "Journals and Reports of the Black Hawk War", <u>Mississippi Valley Historical Review</u> XII (December 1925), 392-412.

30. Cooke, Scenes, 217; "Army of the U.S.", 26.

31. "Lewis Cass to Andrew Jackson", <u>American State</u> <u>Papers, Military Affairs, XX, 528, 126.</u>

32. <u>American State Papers, Military Affairs</u>, XX, 538, 126.

33. Callan, <u>Military Laws</u>, 22 Cong., 2 sess., ch. 26, IV, 652, 310-311.

34. American State Papers, Military Affairs, XX, 538.

35. <u>The Theatre of the Present War in the Netherlands</u> and upon the Rhine, et. al. (London: 1745), (no pagination in the dictionary section); Magrath, <u>Art of War</u>, 138-139; Marmont, <u>Modern Armies</u>, 35-36.

36. Jomini, <u>Art of War</u>, 280-281; Denison, <u>Cavalry</u>, 210-211; Davis, <u>Troopers Manual</u>, VIII.

37. See specifically, Robert M. Utley, <u>Frontiersmen in</u> <u>Blue the United States Army and the Indian 1848-1868</u> (New York: 1967), 22-24; Brackett, <u>U.S. Cavalry</u>, 34-47; also see, Herr and Wallace, <u>U.S. Cavalry</u>, 25-26; Prucha, Swords, 245-247; Pelzer, <u>Dodge</u>, 13; Weigley, <u>U.S. Army</u>, 159-160; Beers, <u>Military Frontier</u>, 109-111; Rodenbaugh and Haskin, <u>Army</u>, 153-159; Pelzer, <u>Dragoons</u>, 13; Morrison, <u>Military</u> <u>Posts</u>, 13; Olivia, <u>Soldiers</u>, 37-42; Colonel R. Ernest Dupuy, <u>The Compact History of the United States Army</u> (rev. ed.; New York: 1961), 77-78.

38. Nolan, <u>Cavalry</u>, 48-52; Denison, <u>Cavalry</u>, 284-285; also see, "U.S. Dragoons", 389-390.

39. Stone, Brittle Sword, 36-51.

40. "On Converting Battalion of Mounted Rangers into a Regiment of Dragoons", 22 Cong., 2 sess., H. rep. 117, serial 236.

41. "U.S. Dragoons", 119.

42. Wayne T. Walker, "Nathan Boone the Forgotten Hero of Missouri", <u>Journal of the West</u> XVIII (April 19799), 89-91; William T. Hagan, "The Dodge-Henry Controversy", <u>Journal</u> <u>of the Illinois State Historical Society</u> L (Winter 1957), 377-384; Pelzer, <u>Dodge</u>, 80-82; Brackett, <u>Cavalry</u>, 35; Young, <u>Cooke</u>, 66-68.

43. Carl L. Davis and LeRoy H. Fischer, "Dragoon Life in Indian Territory, 1833-1846," <u>Chronicles of Oklahoma</u> XLVIII (Spring 1968), 4-6; Cooke, <u>Scenes</u>, 67-78.

44. Frontier Forts of Texas (Waco: 1966), 145.

45. Prucha, "U.S. Army/British Travelers", 115; also see, Laurence Oliphant, <u>Minnesota and the Far West</u> (Edinburg: 1854), 222. 46. Grant, Memoirs, I, 67.

47. Oliphant, <u>Minnesota</u>, 222-223; Henry S. Hamilton, <u>Reminiscences of a Veteran</u> (Concord: 1897), 8-59 (prior to U.S. Army service, Hamilton was a member of the British 11th Hussars).

48. John Ellis, <u>Armies in Revolution</u> (New York: 1974), 140-153; Geoffrey Best, <u>War and Society in Revolu-</u> tionary Europe 1770-1870 (New York: 1982), 255-256.

49. Cooke, Scenes, 197-198.

50. (James Hildreth), <u>Dragoon Campaigns to the Rocky</u> <u>Mountains by a Dragoon</u> (reprint; New York: 1973 (1836)), 44; Hildreth's status as the author of this work was questioned by James B. Thorburn, "The Dragoon Campaigns to the Rocky Mountains", <u>Chronicles of Oklahoma</u> VIII (March 1930), 35-41.

51. "Military Intelligence," <u>Military and Naval</u> <u>Magazine of the United States</u> I (August 1833), 381; II (September 1833), 5.

52. (Hildreth), Dragoon Campaigns, 119.

53. Young, Cooke, 66-68.

54. John Watts DePeyster, <u>Personal and Military</u> <u>History of Philip Kearny, Major-General United States</u> <u>Volunteers</u> (New York: 1869), 59.

55. Cooke, Scenes, 204-205.

56. (Hildreth), Dragoon Campaigns, 119.

57. Charles Fenno Hoffman, <u>A Winter in the West</u>, et. al. (s.l: s.n.), 91-92.

58. DePeyster, Philip Kearny, 59.

59. Beers, <u>Military Frontiers</u>, 110-115; Herr and Wallace, <u>U.S. Cavalry</u>, 25-26; Pelzer, <u>Dodge</u>, 81-84; Weigley, <u>U.S. Army</u>, 160-161; Wormser, <u>Yellowlegs</u>, 44-45; Young, Cooke, 71-73.

60. Edmund Flagg, <u>The Far West or, A Tour Beyond the</u> Mountains, et. al. (2 vols.; New York: 1838), I, 110.

61. Charles Joseph Latrode, <u>The Rambler in North</u> <u>America MDCLXVII MDCLXXIIII</u> (2 vols.; London: 1935), II, 319-329.

62. Young, <u>Cooke</u>, 71-73; Davis and Fischer, "Dragoon Life", 8-10.

63. "Brigadier General Henry Leavenworth", 101-103.

64. (Hildreth), Dragoon Campaigns, 119.

65. George Catlin, <u>North American Indians</u> (2 vols.; Edinburgh: 1926), ii, 44.

66. <u>Ibid</u>., II, 93.

67. T.(hompson) B. Wheelock, "Colonel Henry Dodge and his Regiment of Dragoons on the Plains in 1834", ed. by Edgar B. Harlan, <u>Annuals of Iowa</u> XVIII 3rd series (January 1930), 195.

68. "U.S. Dragoons", 389-390; "From the Dragoons", 106; "The Dragoons," 403-404; (Hildredth), <u>Dragoon Cam-</u> paigns, passim.; Lavender, <u>Bent's Fort</u>, 157-159; Herr and Wallace, <u>U.S. Cavalry</u>, 25-26; Young, <u>Cooke</u>, 72-80; Agnew, "Dodge-Leavenworth Expedition", 381-395; Brackett, <u>U.S.</u> <u>Cavalry</u>, 34-47; Beers, <u>Military Frontier</u>, 110-115; Hughes, "First Dragoons", 120-122; Davis and Fischer, "Dragoon Life", 10-18; W.S. Nye, <u>Carbine and Lance the Story of Old</u> <u>Fort Still</u> (3rd ed., Norman: 1969), 7-12; Richard E. Mueller, "Jefferson Barracks: the Early Years", <u>Missouri</u> <u>Historical Review</u> LXVII (October 1972), 20-27; Wormser, Yellowlegs, 45-48; Pelzer, Dragoons, 26-28.

69. "A Journal of Marches by the First United States Dragoons 1834-1835", ed. by Louis Pelzer, Iowa Journal of History and Politics VII (July 1909), 378; also see, Hugh Evans, "The Journal of Hugh Evans Concerning the First and Second Campaigns of the U.S. Dragoons Regiment in 1834 and 1835", ed. by Fred Perrine, Chronicles of Oklahoma III (September 1925), 175-215; "A Journal of the First Dragoons in the Iowa Territory, 1844", ed. by Robert Rutland, Iowa Journal of History LI (1953), 156-182; see as well, Hamilton Gardner, "Captain Philip St. George Cooke and the March of the Dragoons to the Rocky Mountains in 1845", Colorado Magazine XXX (October 1953), 246-269; Colonel Forrest R. Blackburn, "The Army in Western Exploration", Military Review LI (September 1971), 75-90; Averam B. Bender, The March of Empire Frontier Defense in the Southwest 1848-1860 (Lawrence: 1952), 51-72, 88-107; Lieutenant Thomas W. Symns, "The Army and the Exploration of the West", Journal of the Military Service Institute IV (September 1883), 205-249; William H. Goetzman, Army Exploration in the American West 1803-1863 (New Haven: 1959), passim.; A.B. Bender, "Government Exploration in the Territory of Mexico", New Mexico Historical Review IX (January 1934),1-32; in addition, see, Captain Randolph B. Marcy and Brevet Captain George B. McClellan, Exploration of the Red River of Louisiana in the Year 1852 (Washington, D.C.: 1854), passim.; Lieutenant J. Henry Carleton, The Prairie Logbooks Dragoon Campaigns to the Pawnee Villages in 1844, et. al., ed. by Louis Pelzer (Chicago: 1943), passim.; W.B. Parker, Notes Taken During the Expedition Commanded by Capt. R.B. Marcy, U.S.A. through Unexplored Texas, et. al. (Philadelphia: 1856), passim.; Lieutenant Duff C. Green, "Exploring the Rio Grande: Lt. Duff C. Green's Report of 1852", ed. by Ronnie C. Tyler, Arizona and the West X (Spring 1968), 43-60; Lieutenant James Sullivant Abert, Western America in 1846-1847, et. al., ed. by John Galvin (San Francisco: 1966); Brevet Colonel J.C. Fremont, The Exploring Expedition to the Rocky Mountains, Oregon and California, et. al. (Buffalo: 1849).

70. John T. Sprague, <u>The Origins, Progress, and</u> <u>Conclusions of the Florida War</u>, et. al. (reprint; Gainesville: 1964 (1848)), <u>passim</u>.; M. Cohen, <u>Notices of Florida</u> <u>and the Campaigns</u> (reprint; Gainesville: 1974 (1836)), <u>passim</u>.; Jacob Rhett Motte, <u>Journey Into Wilderness: An</u> Army Surgeon's Account of Life in Camp and Field During the Creek and Seminole Wares, 1836-1838, ed. by James F. Sunderman (Gainesville: 1963), passim.; Army and Navy Chronicle I-XIII (1835-1842): passim.; Scott, Memoirs, I, 260-268; Theo F. Rodenbaugh, From Everglade to Canon with the Second Dragoons (New York: 1975), 20-33; Hitchcock, Fifty Years, 76-97, 110-128; Woodburne Potter, The War in Florida (reprint; Ann Arbor: 1966 (1836)), passim; also see, John K. Mahan, History of the Second Seminole War, 1835-1842 (Gainesville: 1967), passim.; Virginia Bergan Peters, The Florida Wars (Hamden: 1979), 63-257; John B.B. Trussell, "Seminoles in the Everglades: A Case Study in Guerilla Warfare", Army XII (December 1961), 39-45; Ganoe, U.S. Army, 180-181; Dawson, Battles, II, 439-445; Tobbel and Jamison, Indian Wars, 209-219; George C. Brittle, "First Campaign of the Second Seminole War," Florida Historical Quarterly XLVI (July 1967), 39-45; Spaulding, U.S. Army, 161-163; Hassler, Shield and Sword, 112-116; Max L. Heyman, Prudent Soldier: A Biography of Major General E.R.S. Canby 1818-1873 (Glendale: 1959), 39-48; M.L. Brown, "Notes on U.S. Arsenals, Depots and Martial Firearms of the Second Seminole War", Florida Historical Quarterly LXI (April 1983), 445-458; Silver, Gaines, 167-190; Dupuy, Army, 160-163; Maurice Matoff, ed., American Military History (Washington, D.C.: 1969), 159-161; Upton, Military Policy, 162-193; Rogers W. Young, "Fort Marion During the Seminole War,

1835-1842", <u>Florida Historical Society Review</u> XIII (April 1935), 193-222.

71. Joseph Smith, "Letters From the Second Seminole War", ed. by John K. Mahan, <u>Florida Historical Quarterly</u> XXXVI (April 1958), 337.

72. Sprague, Florida War, 182.

73. Trussell, "Seminoles/Guerilla Warfare", 39-45; Mahan, <u>Seminole War</u>, <u>passim</u>.; Peters, <u>Florida Wars</u>, 63-257; also see, Preston and Wise, <u>Men In Arms</u>, 184-185; Strachan, <u>European Armies</u>, 41-42; Kitchen, <u>Military History of</u> <u>Germany</u>, 44-45; John K. Mahan, "Anglo-American Methods of Indian Warfare, 1676-1794," <u>Mississippi Valley Historical</u> <u>Review XLV</u> (September 1958),254-275; Peter E. Russell, "Redcoats in the Wilderness: British Officers and Irregular Warfare in Europe and America 1740-1760".

74. "Conditions of the Indians," <u>Niles' Weekly</u> <u>Register</u> XLVII (October 4, 1834), 76; (William Eustus), "Passports Through the Indian Country: the Secretary of War to Silas Dunsmore", <u>Niles' Weekly Register</u> XXXIV (April 12, 1828), 110-113; "Correspondence with Officers of the Army Relative to the Posts and Military Forces Required for the Protection of the Western Frontier of the United States", <u>American State Papers, Military Affairs</u>, VII, 962; Potter, War in Florida, 35.

75. Sprague, Florida War, 93, 84-85; Potter, War in

280

Florida, 26-27, 31-33; "Correspondence With Officers", 961; Potter, War in Florida, 16-17.

Potter, <u>War in Florida</u>, 40; Sprague, <u>Florida War</u>,
 16-17.

77. Potter, War in Florida, VII-VIII.

78. "Orders from the War Department Authorizing Calls for Volunteers and Militia from Several States and Territories to Suppress the Hostilities of the Creek and Seminole Indians in Florida", et. al., <u>American State Papers,</u> <u>Military Affairs</u>, VI, 1026-1069 (1837); "Report of Secretary of War Relative to Orders and Instructions to the Commanderin-Chief in Florida to Call into Service Militia and Volunteers", et. al., <u>American State Papers, Military Affairs</u>, VII, 918-924 (1838); "Annual Report of the Secretary of War Showing the Condition of that Department in 1837", <u>American State Papers, Military Affairs</u>, VII, 571-572 (1837); also see, in general, Frank B. Woodford, <u>Lewis Cass the Last Jeffersonian</u> (New Brunswick: 1950), 172-194; Mahan, Militia and National Guard, 87-90.

79. Sprague, Florida War, 94.

80. "Colonel Z. Taylor's Account of the Battle with the Seminole Indians near the Kissimmee River, in Florida," et. al., <u>American State Papers, Military Affairs</u>, VII, 985-992; "Annual Report of the Secretary of War (1837)", 571-572. 81. Sprague, <u>Florida War</u>, 425, 426; see as well, "Causes of Hostility of the Creek and Seminole Indians in Florida," et. al., <u>American State Papers, Military Affairs</u>, VI, 450-474 (1836); "Causes of Hostility of the Seminoles and other Indians in Florida, and Military Arrangements and Preparations Against Them", <u>American State Papers, Military Affairs</u>, VI, 433-443 (1836); James B. Dallon, "A Soldier's View of the Seminole War 1838-1839", ed. by William B. Hoyt, Jr., <u>Florida Historical Quarterly</u> XXXVI (April 1958), 331-352; A.B. Meek, "The Journal of A.B. Meek and the Second Seminole War, 1836", ed. by John K. Mahan, <u>Florida Historical Quarterly</u> XXXVIII (April 1960), 302-318; John T. Sprague's Journal during April and May, 1839", <u>Florida</u> Historical Quarterly XXXVI (April 1958), 331-

82. Callan, <u>Military Laws</u>, 24 Cong., 1 sess., Pub. Laws, VIII, 3, 323.

83. For example, see: Herrand Wallace, <u>U.S. Cavalry</u>, 29-30; Wormser, <u>Yellowlegs</u>, 57-58; Thiele, <u>Evolution of</u> Cavalry, 14.

84. <u>Congressional Globe</u>, 27 Cong., 2 sess., XI, 903; Callan, <u>Military Laws</u>, 27 Cong., 2 sess., Pub. Laws, ch. 241, IX, 13, 361-362; see as well, "Memorial of Missouri Legislature Against Disbanding Second Regiment of Dragoons", 28 Cong., 1 sess., H. doc. 25, serial 441, "Resolution of Legislature of Louisiana to Maintain 2d Regiment of Dragoons", 27 Cong., 3 sess., H. doc. 156, serial 422; "Remounting 2d Regiment of Dragoons", 28 Cong., 1 sess., H. doc., serial 441.

85. For the second interpretation, see: Brackett <u>U.S.</u> <u>Cavalry</u>, 37-38; Rodenbaugh, <u>Everglades to Canon</u>, 28-83; Rodenbaugh and Haskin, <u>Army</u>, 173-179; see as well, W.B. Ruggles, "The Story of a Regiment, the Second Dragoons", <u>Magazine of History XIV</u> (1911), 31-42, 66-72, 122-136, 172-176; Frontier Forts, 144-152.

86. Callan, <u>Military Laws</u>, 29 Cong., 1 sess., Pub. Laws, ch. 24, XIX, 13, 361-362.

87. "Remarks of Mr. H.A. Harabran of Georgia, 'Two Regiments of Riflemen'", <u>Congressional Globe</u>, 29 Cong., 1 sess., H. of Rep., (March 26, 1846), 476-478; "Speech of McClernard of Illinois on Regiment of Riflemen", <u>Congres-</u> <u>sional Globe</u>, 29 Cong., 1 sess., H. of Rep., (April 17, 1846), 605-609.

88. "Mounted Riflemen", 30 Cong., 1 sess., H. of Rep., 542, serial 526; "Military Blockhouse Forts, and Stockades in Route to Oregon, and Regiment of Mounted Riflemen to Protect Emigrants," 29 Cong., 1 sess., H. Rep., 350, serial 201; "Recollections of the Rifles," <u>Southern Literary</u> <u>Messenger XXXIII (November 1861), 371-380; Henry Putney</u> Beers, "The Army and the Oregon Trail of 1846", <u>Pacific</u> <u>Northwest Quarterly XXVII (1951), 339-362; Raymond W.</u> Settle, <u>The Marches of the Mounted Rifles</u>, et. al. (Glendale: 1940), <u>passim.;</u> Robert E. Clarke, "Military History of Oregon 1849-1859", <u>Oregon History</u> XXXVI (March 1935), 14-20; Rodenbaugh and Haskin, <u>Army</u>, 193-201; Starr, <u>Union</u> <u>Cavalry</u>, I, 48; Ganoe, <u>U.S. Army</u>, 230; Weigley, <u>U.S. Army</u>, 89; Brackett, U.S. Cavalry, 60.

89. <u>American State Papers, Military Affairs</u>, XV, 612; 639-641; Herr and Wallace, <u>U.S. Cavalry</u>, 63; also see, Francis Paul Prucha, "Distribution of Regular Troops before the Civil War", <u>Military Affairs</u> XXII (Winter 1952), 169-173; Fairfax Downey, <u>Indian Fighting Army 1776-1865</u> (Garden City: 1963), 138-139.

90. Jefferson Davis, <u>Jefferson Davis Constitutional-</u> <u>ist, His Letters, Papers and Speeches</u>, ed. by Rowland Dunbar (10 vols.; Jackson: 1923), II, 392-393.

91. John P. Curry, <u>Volunteers:</u> Compound and Field <u>Book</u>, et. al. (Richmond: 1862), 18-19; Also see, Lendy, <u>Maxims</u>, 195-200; William Whiting, <u>Military Government of</u> <u>Hostile Territory in Time of War</u> (Boston: 1864), <u>passim</u>. See as well, Colonel L.E. Caldwell, <u>Small Wars Their</u> <u>Principles and Practice</u> (3rd e.d; London: 1906), <u>passim</u>.; Asprey, War in the Shadows, I, 146-151.

92. H.W. Halleck, <u>Elements of International Law and</u> Law of Warfare (Philadelphia: 1866), <u>passim</u>.

93. "Spirit and Progress", 8.

94. Captain John Pope, "Captain John Pope's Plan of 1853 for the Frontier Defense of New Mexico", ed. by Robert M. Utley, <u>Arizona and the West</u> V (Summer 1963), 157; also see, Scott, <u>Memoirs</u>, I, 42.

95. R. Gilson, <u>Journal of Army Life</u> (San Francisco: 1874), 46; see as well, "E.O.C. Ord on Frontier Defense," ed. by Robert W. Johannsen, <u>California Historical Society</u> <u>Quarterly XXV</u> (March 1956), 25.

96. <u>Niles' Weekly Register</u>, for example, for the years 1820-1840, carried numerous reports of the French military efforts in Algeria.

97. Anthony Thrall Sullivan, <u>Thomas-Robert Gugeaud</u>, <u>France and Algeria 1784-1849: Politics</u>, Power, and the Good <u>Society</u> (Hampden: 1983), 77-93.

98. DePeyster, <u>Philip Kearny</u>, 63-110, 113-115; see as well, Philip Kearny, "Service with the French Troops in Africa and the Campaign of June 1840 - Expeditions Against Milianah", <u>Magazine of History</u> extra no. 22 (1913), 1-54; Captain Randolph B. Marcy, <u>A Handbook for Overland Expeditions</u>, et. al. (New York: 1859), 202-225; in addition, see, Thomas Kearny, "Philip Kearny, Soldier of America, Soldier of France", <u>American Society of the Legion of Honor Magazine</u> VII (October 1936), 115-123; Wormser, <u>Yellowlegs</u>, 57-58.

99. Colonel George Croghan, <u>Army Life on the Western</u> <u>Frontier Selections from the Official Reports made between</u> <u>1826 and 1845</u>, ed. by Francis Paul Prucha (Norman: 1958), 29; also see, "Military Establishment", 77.

100. Cooke, <u>Scenes</u>, 212-213, 222.

285

101. Desmond Morton, "Cavalry or Police: Keeping the Peace on Two Adjacent Frontiers, 1870-1900", <u>Journal of</u> Canadian Studies XII (Spring 1977), 27-35.

102. W.J. Hughes, <u>Rebellious Ranger Rip Ford and the</u> <u>Old Southwest</u> (Norman: 1964), 80-98; also see, Stephen B. Oates, "The Texas Rangers in the Mexican War", <u>Military</u> <u>History of Texas and the Southwest</u>, III (Summer 1963), 65-84; Walter Prescott Webb, <u>The Texas Rangers: A Century of</u> <u>Frontier Defense</u> (Boston: 1935), <u>passim</u>.; Mark E. Mackman, "The Making of the Texas Citizen Soldier, 1835-1860", <u>Southwestern Historical Quarterly</u> LXXVIII (1975), 231-253; James St. DeShields, <u>Border Wars of Texas</u> (Tioga: 1912), <u>passim</u>.; <u>A Comprehensive History of Texas 1685-1897</u>, ed. by Dudley G. Wooten (2 vols.; Dallas: 1898), II, 329-352.

103. William B. Skelton, "Army Officer Attitudes Toward Indians, 1830-1860", <u>Pacific Northwest Quarterly</u> LXVII (July 1976), 115.

104. Averell, Thirty years, 54.

105. Theresa Viele, "Following the Drum", A Glimpse of Frontier Life (New York: 1858), 121.

106. Gilsan, Army Life, 19.

107. Major-General George A. McCall, Letters from the Frontiers (reprint; Gainesville: 1974 (1868)), 140-41.

108. Potter, War in Florida, 39-40.

109. Potter, War in Florida, 17; "Passports Through the

Indian Country", 110-113; Skelton, "Officer's Attitudes",
118.

110. "Removal of the Indians", North American Review XXX (1830), 62-121; Lewis Cass, "Indians of North America", North American Review XIII new series (January 1826), 53-119; "The Indians of the United States - Their Past, Present and Their Future", DeBow's Review XVI (February XVI (February 1854), 143-149; "The American Indians", Commercial Review of the Southwest V (1848); 272-274, VI (1848), 100-106; "Administration of Indian Affairs", United States Magazine and Democratic Review XVIII (May 1854), 333-336; "Condition of the Indian", 76-77; T.B. Head, "The Red Man", Quarterly Review LXV (autumn 1958), 257-284, 399-425; John Frost, Indian Wars of the United States, et. al. (Auburn: 1855), passim.; see as well, Grant Foreman, Indian Removal: the Emigration of the Five Civilized Tribes of Indians (Norman: 1932), passim.; Agnew, Fort Gibson, passim.; Robert V. Hine, The American West an Interpretative History (Boston), 191-193; Kenneth Davis, "The Cherokee Removal, 1835-1838", Tennessee Historical Quarterly XXXII (Winter 1973), 311-331; Joseph J. Fensten, "Indian Removal", Chronicles of Oklahoma XI (December 1933), 1073-1083; Michael P. Rogin, "Liberal Society and the Indian Question", Politics and Society I (May 1971), 269-312; a typical early 1970s leftist diatribe against the supposedly genocidal policies of the U.S. government against the Indians is

effectively refuted by F.P. Prucha, "Andrew Jackson's Indian Policy: A Reassessment", <u>Journal of American History</u> LVI (December 1969), 527-539; in addition, see, Francis Paul Purcha, "Indian Removal and the Great American Desert", <u>Indiana Magazine of History</u> LIX (December 1963), 299-322.

111. "Condition of the Indians", 76-77.

112. Gilsan, Army Life, 18.

113. Frontier Forts, 136-139.

114. John B. Hood, <u>Advance and Retreat: Personal</u> Experiences in the United States (New York: 1969), 11.

115. Frontier Forts, 138.

116. Hood, Advance and Retreat, 92.

117. Brevet Major E.S. Godfrey, "Cavalry Fire Discipline", <u>By Valor and Arms</u> II (1976), 31-36.

118. The following article rather foolishly and quite pedantically attempted to explain the tactics of both the Army and the Indians at the Little Big Horn in terms of classical Napoleonic battles: Archer Jones, "The United Stats Army at the Little Big Horn", <u>North Dakota History</u> XLII (Spring 1975), 27-35.

119. Anthony McGinnis, "A Contest of Wits and Daring: Plains Indians at War with the U.S. Army", <u>North Dakota</u> <u>History XLVIII</u> (Spring 1975), 24-32; D.E. Worchester, "The Weapons of American Indians", <u>New Mexico Historical Review</u> XX (July 1945), 227-238; Waldo E. Rosebush, <u>Frontier Steel</u> the Men and their Weapons (Appleton: 1958), 146-159; Russell F. Weigley, "A Historian Looks at the Army", Military Review LII (February 1972), 29-30; Marion W. Smith, "American Indian Warfare", Transactions of the New York Academy of Science XIII, series 2 (1951), 348-365; W.W. Newcomb, "A Re-examination of the Causes of Plains Warfare", American Anthropologist LII (July-September 1950), 317-330; Roy Dogsey, "The Osage War of 1837", Missouri Historical Review XX (October 1925), 96-100; Frank McNitt, "Navaho Campaigns and the Occupation of New Mexico, 1847-1848", New Mexico Historical Review XLIII (July 1968), 173-194; Utley, Frontiersman, 18-30; Morris Taylor, "Campaigns Against the Jicarilla Apaches 1854", New Mexico Historical Review XLIV (October 1969), 269-291; Herr and Wallace, U.S. Cavalry, 78; Colonel Hamilton Gardner, "Philip St. George Cooke and the Apache, 1854", New Mexico Historical Review XXVIII (April 1953), 115-132; Stephen Z. Starr, "'Cold Steel' The Saber and the Union Cavalry", Civil War History XI (June 1965), 142-144; Spaulding, U.S. Army, 235-236; Max L. Heyman, Jr., "On the Navaho Trail: the Campaign of 1860-1861", New Mexico Historical Review XXVI (January 1951), 44-63; Nye, Carbine and Lance, 18-24; Bernard Miskin, Rank and Warfare Among the Plains Indians (Seattle: 1940), passim.; Gallagher, "Military Indian Frontier", 393-428; William E. Cimay, "The Story of Fort Larned", Kansas Historical Quarterly XXIII (Autumn 1957), 257-280; L.R. Bailey, The Long Walk A History of the Navaho Wars 1846-1868 (reprint; Los Angeles:

1964 (1918)), <u>passim</u>.; Garfield Marvin, "Defense of the Kansas Frontier 1858-1860", <u>Kansas Historical Quarterly</u> I (December 1937), 451-473; Agnew, <u>Fort Gibson</u>, 205-207; General O.O. Howard, <u>How Indians Fight</u> (Seattle: 1876), passim.

120. Hood, Advance and Retreat, 11.

121. Ibid., 12.

122. Ibid., 13-14.

123. Frontier Forts, 140.

124. Hood, Advance and Retreat, 13-14; Frontier Forts, 135-141; Marcy, Thirty Years, 219-222; Averell, Ten Years, 173-211; Sheridan, Memoirs, I, 23; "John S. Kirwan", ed. by Merrill J. Mattes, Kansas Historical Quarterly II (April 1908), 237 -240; "With the First U.S. Cavalry in Indian Country, 1859-1861 Letters to the Daily Times, Leavenworth", Kansas Historical Quarterly XXIV (Autumn 1958), 257-284, 399-425; Robert S. Bliss, "The Journal of Robert S. Bliss with the Mormon Battalion", Utah Historical Quarterly IV (July 1939), 67-96; Carleton, Prairie Logbooks, 137-141; Auguste Meyers, Ten Years in the Ranks of the U.S. Army (New York: 1979), 73-74; "Robert E. Lee to Albert Sydney Johnston 1857," 3d. by Marilyn McAdams Sibley, Journal of Southern History XXXIX (February 1963), 100-107; Stanley, Memoirs, 44-46.

125. DePeyster, Philip Kearny, 54.

126. Francis F. McKiney, <u>Education in Violence--the</u> <u>Life of George H. Thomas and the History of the Army of the</u> <u>Cumberland</u> (Detroit: 1961), 50-51; Young, <u>Cooke</u>, 320-321; James Fred Rippy, <u>Joel R. Poinsett Versatile American</u> (Durham: 1935), 171-175.

127. Brackett, <u>Cavalry</u>, 160; also see, Rosebush, Frontier Steele, 135.

128. Utley, Frontiersmen, 26; also see, Starr, "'Cold Steel'", 142.

129. Gilsan, Army Life, 112.

130. Colonel Joseph King Ferro Mansfield, <u>On the</u> <u>Condition of the Western Forts 1853-1854</u> (Norman: 1963), 327; also see, "Modern Tactics", 5-6; Kingsbury, <u>Elementary</u> Treatise, 14-15.

131. Gilsan, Army Life, 327.

132. Rosebush, <u>Frontier Steel</u>, 123-135; in addition see, in general, Jerrold, French Under Arms, 5-6.

133. Randy Steffen, <u>The Horse Soldier 1776-1943</u>, the <u>United States Cavalryman his Uniforms</u>, Arms, Accouterments, and Equipment (4 vols.; Norman: 1977), vols., 1-2, passim.

134. Wormser, Yellowlegs, 50-52.

135. Marcy, Thirty Years, 67; Marcy, Handbook, 200.

136. Cooke, Scenes, 221.

137. Philip St. George Cooke, "Our Cavalry", <u>United</u> <u>Service</u> I (July 1879), 330-331.

138. Marcy, Thirty Years, 68; Croghan, Army Life, 22.

139. Mansfield, Western Forts, 67.

140. Viele, "Following the Drum", 174; also see, Meyers, Ten_Years, 59-60.

141. "On Desertions From Army", 19 Cong., 1 sess., H. doc., 140, serial 138; "Plan to Prevent Desertions in Army", 20 Cong., 1 sess., S. doc. 92, serial 656; "Relative to Desertions in Army", 20 Cong., 1 sess., S. doc. 62, serial 193; "Desertions in the Army", Niles' Weekly Register XXXVIII (March 20, 1830), 68; in addition, see, Stanley Graham, "Routine at Western Cavalry Posts, 1833-1861", Journal of the West XV (July 1976), 53-64; Thomas Friggens, "Fort Wilkens: Army Life on the Frontier", Michigan History LXI (Fall 1977), 221-250; Olivia, Soldiers, 44-54; Utley, Frontiersmen, 40-60; W. Oakley Ruggles, "Early Recollections of Fort Dodge," Iowa Journal of History XLIX (April 1951), 163-184; Foreman, Pioneer Days, 170-171; Hughes, "First Dragoons", 115-138; Oliphant, Minnesota, 222-223; Bender, March of Empire, 100-129; A.B. Bender, "Soldier in the Far West, 1848-1860", Pacific Historian VIII (1939), 159-178; James W. Covington, "Life at Fort Brooke, 1824-1836", Florida Historical Quarterly XXXVI (April 1958), 319-330; Weigley, U.S. Army, 168-169; Brackett, U.S. Cavalry, 134-140; Hamilton Gardner, "Romance at Old Cantonment Leavenworth: the Marriage of 2d Lt. Philip St. George Cooke in 1830", Kansas Historical Quarterly XXII (Summer 1956), 97-113; W.C. Holden, "Frontier Defense, 1846-1860", West Texas Historical Association Year Book VI (1930), 39-71; David Robrock, "The Eleventh Ohio Volunteer Cavalry on the Central Plains, 1862-1866", <u>Arizona and the West</u> XXV (Spring 1983), 23-48; Dan Clarke, "Frontier Defense in Iowa, 1850-1865", <u>Iowa Journal of History</u> XVI (July 1918), 315-386; Chris Emmett, <u>Fort Union and the Winning of the Southwest</u> (Norman: 1965), <u>passim.</u>; <u>Frontier Forts</u>, <u>passim.</u>, Leroy Hafen and Francis Young, <u>Fort Laramie and the Pageant of the West</u>, 1834-1890 (Glendale: 1938), <u>passim.</u>; Heyman, <u>Canby</u>, 53-136; G. Hulbert Smith, "A Frontier Fort in Peacetime", <u>Minnesota History</u> XLV (Fall 1976), 116-128; Evan Jones, <u>Citadel in the</u> Wilderness: The Story of Fort Snelling and the Old Northwest Frontier (New York: 1966), <u>passim</u>.

142. Captain Lemuel Ford, "Captain Lemuel Ford's Journal of an Expedition to the Rocky Mountains", ed. by Louis Pelzer, <u>Mississippi Valley Historical Review</u> XII (March 1926), 578.

143. "Military Establishment", 77.

144. Pelzer, Dragoons, 176.

145. Gilsan, Army Life, 107.

146. "Notes on Our Army", 87; on military professionalism, see Skelton, "Professionalism".

147. Philip St. George Cooke, <u>The Conquest of New</u> <u>Mexico and California</u>, et. al. (reprint; Albuquerque: 1964 (1878)); James Madison Cutts, <u>The Conquest of California and</u> New Mexico by the Forces of the United States et. al.

(Philadelphia: 1847); Alexander Majors, Seventy Years on the Frontier (reprint; Columbus: 1950 (1893)), 85-98; W.H. Emory, Notes of A Military Reconnaissance from Fort Leavenworth in Missouri to San Diego, et. al. (Washington, D.C.: 1848); George Rutledge Gibson, Journal of a Soldier Under Kearny, 1846-1847 (Glendale: 1935); Captain Henry Smith Turner, The Original Journals of Henry Smith Turner with Stephen Watts Kearny to New Mexico, et. al., ed. by Dwight L. Clarke (Norman: 1966); Frank S. Edwards, A Campaign in New Mexico with Colonel Dauphin (Ann Arbor: 1966); John S. Griffith, "A Doctor Comes to California: the Diary of John S. Griffith Assistant Surgeon with Kearny's Dragoons, 1846-1847", ed. by George Walcot Adams, Jr., California Historical Quarterly XXI (September, December 1942), 193-224; 333-357; Lieutenant Abraham R. Johnston, Marching With the Army of the West, 1846-1848 (Glendale: 1936); also see, Captain Homer K. Davidson, Black Jack Davidson, A Cavalry Commander on the Western Frontier, et. al. (Glendale: 1974), 23-42; Thomas C. Kanes, "Gilpin's Volunteers on the Santa Fe Trail", Kansas Historical Quarterly XXX (Spring 1964), 1-14; Hurbert Howe Bancroft, History of Arizona and New Mexico 1530-1888 (San Francisco: 1889), 415-428; Herr and Wallace, U.S. Cavalry, 38-42; James M. Merrill, Spurs to Glory, the Story of the United States Cavalry (Chicago: 1961), 83-122; Wormser, Yellowlegs, 68-70; Otis Singletary, The Mexican War (Chicago: 1960), 53-70; Dupuy, Army, 95-96; Justin H.

Smith, The War With Mexico (2 vols.; New York: 1919), I, 286-288, 515; Starr, Union Cavalry, I, 53.

148. [William B. Lane], "The Regiment of Mounted Riflemen: or, from Pueblo to the City of Mexico", ed. by L.R. Honersley, <u>United Service</u> VI (October 1895), 301-313; Brackett, U.S. Cavalry, 60.

149. Samuel Chamberlain, <u>My Confession</u> (New York: 1956), 89.

150. Brackett, U.S. Cavalry, 60.

151. Scott, Memoirs, I, 404.

152. Captain W.S. Henry, <u>Campaign Sketches of the War</u> With Mexico (New York: 1847), 112.

153. Ibid., 159.

154. George B. McClellan, <u>The Mexican War Diary of</u> <u>General George B. McClellan</u>, et. al., ed. by William Starr Myers (New York: 1972), 18; also see, Justin H. Smith, "Our Preparations for the War of 1846-8," <u>Military Historian and</u> Economist II (1917), 27-42.

155. General Henry B. Carrington, "Winfield Scott's Visit to Columbus", <u>Ohio Archaeological and Historical</u> Quarterly XIX (July 1910), 284.

156. James K. Polk, <u>Diary of a President 1845-1849</u>, ed. by Allen Nevins (London: 1929), <u>passim</u>.; also see, Daniel D. Barnard, "The Administration: Its Treatment of General Scott", American Review I (June 1848), 554-572.

295

157. "Military Contributions in Mexico," 30 Cong., 2 sess., H. doc. 47, serial 154, Brackett, U.S. Cavalry, "Our Army in Mexico", DeBow's Review II (1846), 426-430; "A General's Orderly in Mexico", Colburn's United Service Magazine I (May 1855), 78-85; Henry S. Lane, "The Mexican War Journal of Henry S. Lane", ed. by Graham A. Barringer, Indians Magazine of History LIII (December 1957), 383-434; John Donner, "Scott's Battles in Mexico", Harper's New Monthly Magazine XI (1855): 311-324; John Frost, The War and its Warriors Comprising a Complete History of All the Operations of the American Armies in Mexico, et. al. (Philadelphia: 1848), passim.; Samuel C. Reid, Jr., The Scouting Expedition of McCulloch's Texas Rangers, et. al. (Philadelphia: 1859), passim.; Scott, Memoirs, I, 381-551; (Daniel H. Hill), "The Battle of Chrubusco", Southern Quarterly Review XXII (1852), 78-116; (Daniel H. Hill), "The Battle of Contreras", Southern Quarterly Review XXI (1851), 373-426; John R. Kenly, Memoirs of a Maryland Volunteer War With Mexico in the Years 1846-7-8 (Philadelphia: 1873), et. al.; George C. Ferber, The Twelve Months Volunteer, or, Journal of a Private in the Tennessee Regiment of Cavalry, et. al., (Cincinnati: 1848), passim.; Hitchcock, Fifty Years, 202-258; Brevet Brigadier General E.D. Keyes, Fifty Year's Observations of Men and Events, et. al. (New York: 1884), 152-161; Lieutenant John James Neely, The Sign of the Eagle A View of Mexico - 1830 to 1858 (San Diego: 1970),

passim., Albert G. Brackett, General Lane's Brigade in Central Mexico (Cincinnati: 1854), passim.; E. Kirby Smith, To Mexico With Scott: Letters of Captain Kirby to his Wife 1917), passim.; P.G.T. Beauregard, With (Cambridge: Beauregard in Mexico, et. al., ed. by T. Harry Williams (Baton Rouge: 1956), passim.; Chamberlain, My Confession, passim.; Autobiography of an English Soldier in the United States Army Comprising Observations and Adventures in the United States and Mexico (New York: 1853), passim.; Captain Robert Anderson, an Artillery Officer in the Mexican War 1846-7, et. al. (New York: 1911), passim; General Scott and His Staff Comprising Memoirs of General Scott, Twiggs, et. al. (Freeport: 1900), passim.; Grant, Memoirs, I, 121-169; Major-General C.S. Hamilton, "Reminiscences of the Old Army Forty Years Ago", Commandery of the State of Wisconsin, Military Order of the Loyal legion of the United States War Papers I (1891), 31-46; Henry Heth, The Memoirs of Henry Heth, ed. by James L. Morrison (Westport: 1974), 49-74; also see, Ganoe, U.S. Army, 108-129; Dawson, Battles, II, 452-93; Edward S. Wallace, "The U.S. Cavalry in Mexico City", Military Affairs XIII (1949), 158-166; Major Joseph Bernado and Eugene H. Bacon, American Military Policy: Its Development Since 1775 (Harrisburg: 1955), 177-180; Brevet Lieutenant-Colonel W.B. Lane, "The U.S. Cavalry in the Mexican War", Journal of the West XI (April 1977), 273-284; Lester R. Dillon, "American Artillery in the Mexican War of

1846-1847", Military History of Texas and the Southwest II (1973), 7-29, 109-127, 149-172, 233-240; R.C. Bulerly, "Indiana in the Mexican War", Indiana Magazine of History XV (September, December 1919), 260-292, 293-326, XVI (March 1920), 46-48; Henry O. Whiteside, "Winfield Scott and the Mexican Occupation: Policy and Practice", Mid-America LII (April 1970), 102-118; Justin H. Smith, "Our Preparations for the War of 1846-8", Military Historian and Economist II (1917), 27-42; Smith, Mexican War, passim.; "General Winfield Scott," American Whig Review XII (September 1850): 270-289; Paxson, American Frontier, 351-360; James W. Pohl, "The Influence of Antoine Henri Jomini on Winfield Scott's Campaign in the Mexican War", Southwestern Historical Quarterly LXXVII (1973), 86-110; Colonel Manual Balletin, "The Battle of Angostina (Buena Vista)", Journal of the U.S. Cavalry Association VII (June 1894), 125-154; Singletary, War With Mexico, passim.; Seymour Connor and Obie B. Fawley, North America Divided the Mexican War, 1846-1848 (New York: 1971), passim.; Jacob Oswadel, Notes of the Mexican War (Philadelphia: 1885), passim.; Wormser, Yellowlegs, 79-99; Elliott, Scott, 417-552; Tuttle, Border Wars, 452-493; Leckie, Wars of America, 351-370; Douglas Southall Freeman, R.E. Lee: A Biography (4 vols.; New York: 1934-1935), I, 210-350; General Charles Hamilton, "Memoirs of the Mexican War", Wisconsin Magazine of History XIV (September 1930), 63-92; M.L. Thomlinson, "The Dragoons of El Paso", New Mexico Historical Review XXIII (1948), 217-224; Hughes, Rebellious Ranger, 25-56; Mahan, Militia and National Guard, 91-94; T. Harry Williams, P.G.T. Beauregard: Napoleon In Gray (Baton Rouge: 1954), 13-33; J.F.H. Claiborne, Life and Correspondence of John A. Quitman (2 vols.; New York: 1860), I, 227-400; Depeyster, Philip Kearny, 123-151; French, Two Wars, 41-84; Burdet Hart, The Mexican War (New Haven: 1847); Edward D. Mansfield, The Mexican War, et. al., (New York: 1849), passim.; Fayette Robinson, Thrilling Incidents of the Wars of the United States, et. al. (New York: 1855), 543-600.

158. Ashbel Smith, <u>Addresses Delivered in the Chapel at</u> <u>West Point before the Officers and Cadets</u>, et. al., (New York: 1848), 17-18.

159. "On the Means and Measures Necessary for the Military and Moral Defenses of the Country", <u>American State</u> <u>Papers, Military Affairs</u>, VI, 374 (1836).

160. Compare the negative appraisal of Brooks, <u>Mexican</u> <u>War</u>, 341, with Colonel A.W. Dauphin of the Missouri Volunteer Rifles, in Smith, Addresses, 15-16.

161. Davis, <u>Constitutionalist</u>, I, 48-49; for a more negative civilian assessment of the Mexican War, see, "Military Establishment", 75.

162. Mahan, Outpost, 36-37.

Footnotes

Chapter IV

- 1. "Our Army," 429.
- 2. Ibid., 430.
- 3. Davis, Constitutionalist, II, 395.

4. Brackett, <u>U.S. Cavalry</u>, 144; McKinney, <u>Education</u> <u>in Violence</u>, 65-71; Herrand Wallace, <u>U.S. Cavalry</u>, 73-76; Rodenbaugh and Haskin, <u>Army</u>, 211-213; 221-223; Jay A. Mathews, "The Second U.S. Cavalry in Texas, 1855-1861," <u>Military History of Texas and the Southwest</u> IV (1973): 329-231; <u>Frontier Forts</u>, 152-164; Starr, <u>Union Cavalry</u>, I, 48-49; Thiele, Evolution of Cavalry, 24-25.

5. Athearn, Forts/Upper Missouri, 152-164; also see, Brad Agnew, "The 1858 War Against the Comanches," <u>Chronicles</u> of Oklahoma XLIX (Summer 1971): 211-229.

6. Davis, Constitutionalist, II, 446.

7. Nolan, Cavalry, 60; Roemer, Cavalry, 38-39.

8. Hudson Strode, <u>Jefferson Davis American Patriot</u> <u>1801-1861</u> (New York: 1955), 245-295; Weigley, <u>U.S. Army</u>, 190-191; Roy Franklin Nichols, <u>Franklin Pierce Young Hickory</u> <u>of the Granite Mountains</u> (2d ed.; Philadelphia: 1969), 248, 271-272, 295-296, 385-387; also see, April Kopp, "Camel Corps U.S.A.," American History Illustrated XVI (December 1981): 8-17; Odie B. Faulk, <u>The U.S. Camel Corps An Army</u> Experiment (New York: 1976), passim.

9. Strachan, <u>European Armies</u>, 111-112; Ropp, <u>War</u>, 144-145; Preston and Wise, <u>Men In Arms</u>, 244-245; E.L. Woodward, <u>War and Peace In Europe 1815-1870</u> (New York: 1931), 18-28; Barbazon, <u>soldiers</u>, 254-273; MacDougall, <u>Modern Warfare</u>, 14-15; Fairfax Downy, <u>Sound of the Guns the</u> <u>Story of American Artillery</u>, et. al., (New York: 1955), 85-117.

10. Martin Roe Smith, <u>Harper's Ferry ARmory and the</u> <u>New Technology The Challenge of Change</u> (Ithaca: 1977), 323-335; also see, Jack Abbott, "The Armory at Springfield," <u>Harper's New Monthly Magazine XXVI</u> (July 1852): 144-161.

11. Strachan, <u>European Armies</u>, 123-124; Crevald, <u>Supply in War</u>, 82-104; Edwin A. Pratt, <u>The Rise of Rail-</u> <u>Power in War and Conquest 1833-1914</u> (London: 1915), passim.; Dennis E. Showalter, <u>Railroads and Rifles Soldiers</u>, <u>Technology</u>, and the Unification of Germany (Hamden: 1975), 19-53; Campbell, "Railroads in National Defense," 361-378; "Triumphs of Steam," 345-356.

12. "National Defense," 125; "Atlantic Steam Navigation," 118-146; in addition, see, Daniel R. Headrick, "The Tools of Imperialism: Technology and the Expansion of European Colonial Empires in the Nineteenth Century," Journal of Modern History LI (June 1979): 3235-241. 13. "The Electric Telegraph," <u>Quarterly Review</u> XCV (June 1854): 118-164; Strachan, <u>European Armies</u>, 24; see as well, Brigadier-General Albert Z. Meyer, <u>A Manual of</u> <u>Signals: For the Use of Officers in the Field</u>, et. al. (rev. ed.; New York: 1868).

14. Graham, <u>Art of War</u>, 169-170; Strachan, <u>European</u> Armies, 41-42.

15. Irvine, "Origins of Capital Staffs," 168-179.

16. MacDougall, Modern Warfare, 13-15; Craighill, Pocket Companion, 72; Szaband, Modern War, 32-33; Schalk, Art of War, 62-66; "Modern Fortification," Edinburgh Review CII (July 1855): 202-236; Viktor Ernest Karl Rudolf von Schelia, A Treatise on Coastal Defense (London: 1868), passim.; "Sea-Coast Defense," 314-325; Montgomery, Warfare, 419-420; Downey, Sound of the Guns, 85-117; Prentice G. Morgan, "The Forward Observer," Military Affairs XXIII (Winter 1959-1960): 209-212; Dupuy, Weapons and Warfare, 192-193; Huston, Sinews of War, 118-120; Howard, War/European History, 102-104; Colonel Maitland, "On the Metallurgical Manufacturing of Modern British Ordnance," Ordnance Notes, no. 195 (May 23, 1882): 1-48; Fairfax Downey, "Field and Siege Pieces," Civil War History II (1956): 65-74; Cavalier de Cuverille, "The Progress in Naval Artillery from 1855 to 1880," Ordnance Notes no. 203 (June 19, 1882): 1-24; Robert S. Browning, Two If By Sea the Development of American Coastal Defense Policy (Westport: 1983), 24-58, 78-127.

17. Rothenberg, Age of Napoleon, 65.

Kingsbury, Elementary Treatise, 11-14; "Modern 18. Tactics," 6-8; Wilcox, Theory of Rifle Practice, 167-174; Jerrold, French Under Arms, 109-110; see as well, Colonel John W. Wright, "Some Notes on the Continental Army," William and Mary Quarterly XI 2nd series (April 1931): 87-90, 98-100; Gluckman, Martial Pistols, 73; Dowling, "Infantry Weapons," 228-230; B.H. Liddell Hart, "Armed Forces and the Art of War: Armies," in J.P.T. Bury, ed., The New Cambridge Modern History (15 vols.; Cambridge, U.K.: 1960), X, 303; Strachan, European Armies, 111-112; Ross, Flintlocks to Rifles, 13-36; Ropp, War, 30-34; Pivka, Armies/Napoleonic Era, 54-65; Huston, Sinews of War, 129-131; T.H. McGuffie, "Musket and Rifle," History Today Part I, VII (April 1957): 257-263; Part II, VII (July 1957): 473-479; B.P. Hughes, Fire Power Weapon Effectiveness on the Battlefield 1630-1850 (New York: 1974), 10-13, 26-35; Millis, Arms and Men, 19-20; Major C.H.B. Pridham, Superiority of Fire A Short History of Rifles and Machine Guns (London: 1945), 7-8. W. Ommundsen and Ernest H. Robinson, Rifles and Ammunition, et. al., (New York: 1915), 1-20.

19. Nickerson, Armed Horde, 47-48.

20. Magrath, Art of War, 99.

21. "Modern Tactics," 7-8; "Rifled Firearms," <u>Eclectic</u> <u>Magazine of Foreign Literature, Science and Art</u> LIII (August 1861): 556; Rothenberg, <u>Art of War</u>, 66, McNeill, <u>Pursuit of</u> <u>Power</u>, 231; Hughes, <u>Firepower</u>, 11; Strachan, <u>European</u> <u>Armies</u>, 112.

22. "Percussion Guns of the Army," <u>Military and Naval</u> <u>Magazine of the United States</u> II (October 1833): 111-112; Kingsbury, <u>Elementary Treatise</u>, 14-15; Rothenberg, <u>Art of</u> <u>Warfare</u>, 66; Strachan, <u>European Armies</u>, 112, Fuller, <u>Armament</u>, 110-111; Glickman, <u>Martial Pistols</u>, 53-56; Headrick, "Tools of Imperialism," 249-250; Ross, <u>Flintlocks</u> <u>to Rifles</u>, 161-162; Fuller, <u>Conduct of War</u>, 87; Ommundsen and Robinson, <u>Rifles and Ammunition</u>, 21.

23. Strachan, <u>European Armies</u>, 112; Dupuy, <u>Genius for</u> <u>War</u>, 76; Showalter, <u>Railroads and Rifles</u>, 81-82; Carl C. Davis, <u>Arming the Union Small Arms in the Civil War</u> (Port Washington: 1973), 84-85, 89-103, 107-119; Lloyd, <u>HIstory</u> of Infantry, 237; Goerlitz, German General Staff, 64.

24. John Jessup, "Problems of Selecting a Standard Weapon for the Army: the Breechloader Issue," in United States Commission on Military History, <u>Colloquium on</u> <u>Military History Proceedings</u> (Chicago: 1979), 5-30; Smith, <u>Harpers Ferry Armory</u>, 184-304; Davis, <u>Arming the Union</u>, 107-114; Claude E. Fuller, <u>The Breechloader in Service</u> 1816-1917 (New Milford: 1965), 17-52; Huston, <u>Sinews of War</u>, 114-115; Rosebush, <u>Frontier Steel</u>, XVI, 123-134; Lewis R. Berkeley, Notes on Cavalry Weapons of the American Civil War 1861-1865 (Washington, D.C.: 1961), 6-29; R.T. Huntington, <u>Hall's</u> <u>Breechloaders</u> (York: 1972), passim.

- 25. "Modern Tactics," 11.
- 26. <u>Ibid</u>.
- 27. Ibid., 9.
- 28. Szaband, Modern War, 34.

Jerrold, French Under Arms, 1-12; Showalter, 29. Railroads and Rifles, 93-94; Strachan, European Armies, 112-113; McWhiney and Jamison, Attack and Die, 48-50; Grady McWhiney, "Who Whipped Whom? Confederate Defeat Reexamined," Civil War History XI (March 1968): 8-9; Fuller, Armament, 110-111; Headrick, "Tools of Imperialism," 248-250; Daniel R. Headrick, The Tools of Empire Technology and European Imperialism in the Nineteenth Century (New York: 1981), 96-103; Colonel T.N. Dupuy, Numbers, Predictions and War: Using History to Evaluate Combat Factors and Predict the Outcome of Battles (Indianapolis: 1979), 9; Dupuy, Evolution of Weapons, 191-195; Pridham, Superiority of Fire, 7-8, 11-12; Ropp, War, 144-145; Baron Cottasloe (T.F. Freemantle), The Book of the Rifle (London: 1901), passim.; Montgomery, Warfare, 419-410; Captain E. Eames, The Rifle in War (Fort Leavenworth: 1909), passim.; Ommundsen and Robinson, Rifles and Ammunition, 27-53.

30. Halleck, Elements, 131-132.

31. Wilcox, <u>rifles</u>, 237.

32. Ibid., 244.

33. Ibid.

34. Szaband, Modern War, 34.

Bloch, Future of War, passim.; David Armstrong, 35. Bullets and Bureaucrats The Machine Gun and the United States Army 1861-1916 (Westport: 1982), passim.; William L. Taylor, "The Debate Over Changing Cavalry Tactics and Weapons, 1900-1914," Military Affairs XXVIII (Winter 1965): 173-183; "Machine Guns: Their Status in Warfare," Ordnance Notes no. 173 (January 10, 1882): 1-21; A.W. Preston, "British Military Thought, 1856-90," Army Quarterly LXXXIX (1964): 57-74; Jay Luvaas, The Military Legacy of the Civil War the European Inheritance (Chicago: 1959), passim.; Ellis, Armies in Revolution, 143-146; Sir Henry M. Havelock-Allan, Three Main Military Questions of the Day, et. al. (London: 1867), 35-80; Henderson, Science of War, 51-77; Sir Evelyn Wood, Achievements of Cavalry (London: 1897), passim.; Major-General Carl von Schmidt, Instructions for the Training, Employment and Leading of Cavalry (reprint; Westport: 1968 (1881)), 2-15; Brian Bond, "Doctrine and Training in the British Cavalry 1870-1914," in Howard, ed., Theory and Practice of War, 97-125; Foch, Principles of War, 1-47; Charles Chenevix Trench, "From Arquebus to Rifle: the Pursuit of Perfection," History Today XXIII (June 1973): 407-417; Lieutenant-Colonel F.N. Maude, "Military Training and Modern Weapons," Contemporary Review LXXVII (1900):

305-322; John N. Lynn, "Self Image and Weaponry: The French Fascination with the Pike 1724-1794," in <u>Colloquium on</u> <u>Military History</u>, 21-40, is an excellent study of this same phenomenon of military organizations, due to tradition, conservatism and romanticism, remaining wedded to weapons and tactics long after they have become outmoded; also see, Colonel Ardet du Picq, <u>Battle Studies Ancient and Modern</u> (reprint; New York: 1921 (1879)), 180-202; Paddy Griffith, Forward into Battle Fighting Tactics from Waterloo to <u>Vietnam</u> (Sussex: 1981), passim.; presents a counter position, which is to say the least, very argumentative and not terribly well researched.

36. Jomini, Art of War, 43.

37. Jomini, <u>Art of War</u>, 325; also see, Gooch, <u>Armies</u>, 69-70, 83-85.

38. DuPont, "West Point in the Fifties," 307-308; Weigley, <u>U.S. Army</u>, 190-191.

39. Compare the infantry manual of Scott (1838) with Hardee's revision (1861).

40. Morgan, "Forward Observer," 209-212; see as well, Smith, <u>Modern Tactics</u>, XIV-XX, on the portable field telegraph; also see, in general, Meyer, <u>Manual of Signals</u>, passim.

41. Jomini, Art of War, 326.

42. Jack Coggins, <u>Arms and Equipment of the Civil War</u> (Garden City: 1962), 28-29. 43. Roemer, <u>Cavalry</u>, 55-56; see in addition, Szaband <u>Modern War</u>, 33.

44. Denison, Modern Cavalry, 18.

45. Wilcox, <u>Rifles</u>, 237.

46. Colonel James J. Graham, <u>Military Ends and Moral</u> <u>Means Exemplifying the Higher Influences Affecting Military</u> <u>Life and Character</u>, et.al. (London: 1864), passim.; Best, <u>War and Society</u>, 252-256; Preston and Wise, <u>Men in Arms</u>, 184-185; Kitchen, <u>Military History/Germany</u>, 44-45; Ellis, <u>Armies in Revolution</u>, passim.; Herbert, <u>Coruna</u>, 28-30, 124-126, 201-203; Fuller, <u>Light Infantry</u>, passim.; Picq, <u>Battle</u> <u>Studies</u>, passim.; Sullivan, <u>Bugeaud</u>, 77-93; Mahan, "Methods of Indian Warfare," 254-275; Russell, "Redcoats/Wilderness," 629-652; Martin van Crevald, <u>Fighting Power German and U.S.</u> <u>Army Performance, 1939-1945</u> (Westport: 1982), passim.; the forerunner of the modern citizen-soldier can be seen in Rifleman Harris, <u>Recollections of Rifleman Harris</u>, et. al. (reprint; Hampden: 1970).

47. Davis, <u>Constitutionalist</u>, II, 446; Bernardo and Bacon, <u>American Military Policy</u>, 188.

48. Brackett, U.S. Cavalry, 144.

49. Morton, <u>American Fortification</u>, passim.; "National Defense," 12; "Sea-Coast Defense," 314-325; "Ancient and Modern Fortresses," <u>Blackwood's Magazine</u> LXXV (May 1854): 522-532; Barnard, <u>Sea-Coast Defense</u>, passim.; Schelia, Coastal Defense, passim.; Browning, Two If By Sea, 24-58; 78-127; also see in general, Willard Robinson, <u>American</u> <u>Forts: Architecture Form and Function</u> (Champaign: 1977), passim.

50. Lieutenant-Colonel E. Bruce Hamley, <u>The Story of</u> <u>the Campaign of Sebastapool</u> (New York: 1968), passim.; Lieutenant-Colonel John Adye, <u>A Review of the Crimean War</u> (reprint; East Andsley: 1973); "The War in the Crimea," <u>Edinburgh Review</u> CI (January 1855): 261-290; Preston and Wise, <u>Men In Arms</u>, 209-211; Hew Strachan, "Soldiers, Strategy and Sebastapool," <u>Historical Journal</u> XXI (June 1978): 303-325; Fortescue, <u>British Army</u>, VII, 75-110; Barnet, <u>Britain and Her Army</u>, 283-294; Ropp, <u>War</u>, 146-150; Ellis, <u>Armies</u>, 144-146.

51. Hagerman, "Jomini/Mahan," 208.

52. On the aristocratic fraternity of officers, see, "The Armies of Europe," <u>Putnam's Magazine</u> VI (1855): 193; on the new arms race, see, Howard, <u>War</u>, 102-104; Fuller, Armament, 110-118; Montgomery, Warfare, 116.

53. Delafield, <u>Art of War</u>, passim.; Mordecai, <u>Military</u> <u>Commission</u>, passim.

54. Captain George B. McClellan, <u>The Armies of Europe</u>, et. al. (Philadelphia: 1861); also see, "Report of the Secretary of War Communicating the Report of Captain George B. McClellan," et. al., 35 Cong., sp. S. ex. doc. 1, serial 916; in addition, see, Weston R. Crosbie, "The Crimson War," in James Lawford, ed., The Cavalry (Berkshire: 1976), 143150; Cecil Woodham-Smith, <u>The Charge of the Light Brigade</u> (The Reason Why) (reprint; New York: 1968 (1953)), passim.; Preston and Wise, <u>Men In Arms</u>, 210-211; Breteron, <u>The Horse</u>, 96-97; Ellis, Mounted Warfare, 144-145.

- 55. McClellan, Armies of Europe, 386.
- 56. Ibid.
- 57. Ibid.
- 58. McClellan, European Cavalry, 116.
- 59. McClellan, Armies of Europe, 390.
- 60. Maury, Recollections, 95-96.

61. For example, see, Cooper, <u>Cooper's Cavalry</u> <u>Tactics</u>; Davis, <u>Trooper's Manual</u>; McClellan, <u>Regulations/Cavalry</u>, U.S. War Department, <u>Cavalry Tactics</u> (1841); U.S. War Department, <u>Cavalry Tactics</u> (1861).

62. U.S. War Department (Cooke), <u>Cavalry Tactics</u> (1861), 69-71.

63. (Captain of Infantry), <u>Hints Bearing on the United</u> States Army, et. al. (Philadelphia: 1858), 5.

- 64. Ibid.
- 65. Ibid., 6.
- 66. Ibid., 7.
- 67. Ibid., 8.
- 68. Ibid.

69. In general, see, Asprey, <u>War In The Shadows</u>, I, passim.; Caldwell, Small <u>Wars</u>, passim.

70. Captain John N. Opie, <u>A Rebel Cavalryman with Lee</u>, <u>Stewart and Jackson (reprint; Nashville 1972 (1899))</u>, 54.

71. <u>One Rebel Cavalryman</u>, passim.; Sanford, <u>Rebels and</u> <u>Redskins</u>, 131-309; Sheridan, <u>Memoirs</u>, 348-387; Wilson, <u>Old</u> <u>Flag</u>, I, 326-416, II, 107-294; James H. Wilson, "'Your Left Arm', James H. Wilson's letters to Adam Badeau," ed. by James P. James, <u>Civil War History</u> XII (September 1966), 239-240. Philander H. Nesbitt, "Eight Months in Missouri: The Civil War Letters of Philander H. Nesbitt," ed. by Norman Stewart, <u>Missouri Historical Review</u> LXXV (April 1981): 261-284; Woody, <u>Advanced Retreat</u>, 293-311; Sergeant Isaac Gause, <u>Four Years with Five Armies</u> (New York: 1908), passim.; Lieutenant-Colonel W.W. Blackford, <u>War Years with Jeb Stuart</u> (New York: 1945), 16-254, Brackett, U.S. Cavalry, 167-235.

72. <u>History of the Eleventh Pennsylvania Volunteer</u> <u>Cavalry</u>, et. al. (Philadelphia: 1903); Reverend Louis N. Boudry, <u>Historical Records of the Fifth New York Cavalry</u>, et. al. (Albany: 1874); Sergeant Thomas Crotts, Compl. <u>History of the Service of the Third Ohio Veteran Ohio</u> <u>Cavalry</u>, et. al. (Toledo: 1910); Major Benjamin Crownshield <u>A History of the First Regiment of Massachusetts Cavalry</u> <u>Volunteers</u> (Boston: 1891); W.L. Curry, compl. <u>Four Years in</u> <u>the Saddle, History of the First Regiment Ohio Volunteer</u> <u>Cavalry</u>, et. al. (Columbus: 1898); Edward A. Davenport, ed. <u>History of the Ninth Regiment Illinois Cavalry Volunteers</u> (Chicago: 1888); Thomas Cornblaser, <u>Saber Stories of the</u> Pennsylvania Dragoons, et. al. (Philadelphia: 1884); Abner Hard, History of the Eighth Cavalry Regiment Illinois Volunteers, et. al. (Aurora: 1868); Charles H. Lothrop, A History of the First Regiment Iowa Cavalry, et. al. (Cayans: 1890); Captain William N. McDonald, A History of the Laurel Brigade (Baltimore: 1907); Sergeant B.F., History of the 72nd Indiana Volunteer Infantry, et. al. (Lafayette: 1882); William Pickerell, History of the Third Indiana Cavalry (Indianapolis: 1906); Henry R. Pype, Ride to War -- The History of the First New Jersey Cavalry (New Brunswick: 1961); William F. Scott, The Story of a Cavalry Regiment-The Career of the Fifth Iowa Veterans, et. al. (New York: 1893); Edward P. Tobe, History of the First Maine Cavalry 1861-1865 (Boston: 1887); J.P. Young, The Seventh Tennessee Cavalry (Confederate), A History (Dayton: 1976); also see, Starr, Union Cavalry, passim.; Charles D. Rhodes, History of the Cavalry of the Army of the Potomac, et. al., (Kansas City: 1900); Edward G. Longacre, Mounted Raids of the Civil War (South Brunswick: A.S. Barnes, 1975).

Bibliography Primary Sources: Government Documents

- "Abstract of the Annual Returns of the Militia of the United States", 30 Cong., 2 sess., H. ex. doc. 49, serial 541.
- Adams, John, "Military Academy and Reorganization of the Army", <u>American State Papers, Military Affairs</u>, I, 133-144 (1800).
- "Annual Report of the Secretary of War, showing the Condition of that Department in 1835", <u>American State</u> <u>Papers, Military Affairs</u>, VII, 571-745.
- Calhoun, John C., "Strength of the Army and its Disposition", <u>American State Papers, Military Affairs</u>, I, 669-672 (1817).
- "Causes of Hostilities of the Creek and Seminole Indians in Florida", et. al., <u>American State Papers, Military</u> Affairs, VI, 450-574 (1836).
- "Causes of Hostility of Seminole and other Indians in Florida, and Military Arrangements and Preparations Against Them", <u>American State Papers, Military Affairs</u>, VI, 433-443 (1836).

- "Colonel Z. Taylor's Account of the Battle with the Seminole Indians near the Kissimmee River, in Florida, on December 25, 1833", <u>American State Papers, Military</u> <u>Affairs</u>, VII, 985-992 (1838).
- "Correspondence with Officers of the Army Relative to the Posts and Military Forces Required for the Protection of the Western Frontier of the United States", <u>American</u> <u>State Papers, Military Affairs</u>, VII, 947-962.
- "Causes of the Failure of the Expedition against the Indians, in 1791 under the Command of Major-General St. Clair", <u>American State Papers, Military Affairs</u>, I, 36-45 (1793).
- "Causes of the Failure of the Northern Army", <u>American State</u> <u>Papers, Military</u>, I, 439-488 (1814).
- "Cavalry Instruction", 23 Cong., 1 sess., H. Reports 419, serial 262.
- "A Comparative Statement of the Exercise of Enlistment, Equipment, Maintenance, & c. of Cavalry or Mounted Men and Infantry, & c.", 25 Cong., 2 sess., H. doc. 250, serial 328.
- "Defense Western Frontier-Organization, Staff, Armies", 25 Cong., H. Ex. doc. 114, serial 325.
- "Description and Estimates of Complete Line of Defense, by Military Works, on Western Frontier", 25 Cong., 2 sess., <u>Military Affairs</u>, 769; <u>American State Papers</u>, 22.

"Estimate of Appropriation-Indian Hostilities", 25 Cong., 2 sess., H. doc. 265, serial 328.

"Frontier U.S.; Defense of Northern and Western", 25 Cong., 3 sess., H. doc. 117, serial 346.

- Gaines, Brevet Major-General Edmond, "General Remarks Concerning the Militia of the United States", <u>American</u> <u>State Papers, Military Affairs</u>, IV (1828).
- "Increase of the Army", <u>Debates in Congress</u>, Senate (June 10, 1836), 1745-1758.
- Jefferson, President Thomas, "Military Academy", <u>American</u> <u>State Papers, Military Affairs, I, 228-230 (1800).</u>
- "Major Bent Riley's Report on the 1829 Escort", 21 Cong., 1 sess., S. doc. 46, serial 182.
- "Memorial of Missouri Legislature against Disbanding Second Regiment of Dragoons", 28 Cong., 1 sess., H. doc. 25, serial 441.
- "Military Academy at West Point", <u>American State Papers</u>, Military Affairs, I, 837-848 (1818).
- "Military Academy at West Point", <u>American State Papers</u>, <u>Military Affairs</u>, II, 75-98 (1820).
- "Military Blockhouse Forts, and Stockades in Route to Oregon, and Regiment of Mounted Riflemen to Protect Emigrants", 29 Cong., 1 sess., H. rptrs. 350, serial 201.

"Military Road, Western Frontier, & c. letter from the

Secretary of War", et. al., 25 Cong., 2 sess., H. doc. 278, serial 328.

- "The Militia", <u>American State Papers, Military Affairs</u>, I, 824-837.
- "Mounted Riflemen", 30 Cong., 1 sess., H. rptrs. 342, serial 526.
- "Mounted Troops", <u>Debates in Congress</u>, H. of Rep. (June 9, 1832), 3387-3397.
- "On Converting Corps of Mounted Rangers into a Regiment of Dragoons", 23 Cong., 2 sess., H. rp. 17, serial 236.
- "On Desertions from Army", 19 Cong., 1 sess., H. doc. 61, serial 134, H. doc. 140, serial 138.
- "On Employment of Volunteer Mounted Gunmen on Western Frontier," 30 Cong., 1 sess., H. doc. 234, serial 174.
- "On the Establishment of a Line of Posts and Military Roads for the defense of the Western Frontiers against the Indians", <u>American State Papers, Military Affairs</u>, VI, 640-650 (1836).
- "On the Means and Measures Necessary for the Military and Moral Defenses of the Country", <u>American State Papers</u>, Military Affairs, VI, 365-391.
- "Plan to Prevent Desertion in Army", 20 Cong., 1 sess., S. doc. 92, serial 650.
- "Plans for Defense and Protection of Western Frontiers and Number of Indians and Warriors on the Frontiers", 25

Cong., 2 sess., <u>Military Affairs</u>, 753, <u>American State</u> Papers, 222.

- "Relative to the Efficiency of Mounted Volunteers for the Protection of the Frontiers", <u>American State Papers</u>, <u>Military Affairs</u>, VI, 828-829.
- "Remarks of Mr. H.A. Harabran of Georgia, two Regiments of Riflemen," <u>Congressional Globe</u>, 29 Cong., 1 sess., H. of Rept., 476-478 (March 26, 1846).
- "Reorganization of Militia of United States, more effectively to Provide National Defense", et. al., 26 Cong., l sess., S. doc. 560, serial 1361.
- "Remounting 2d Regiment of Dragoons", 28 Cong., 1 sess., H. doc. 25, serial 441.
- "Report and Maps on Expedition of Dragoons under Colonel Henry Dodge to Rocky Mountains in 1835 to locate Indians," 24 Cong., 1 sess., <u>Military Affairs</u>, 6, serial 654.
- "Report of a Board of Officers on Improvements in Firearms by Hall, Colt, Cochran, Hackett, Fischer, and Leavitt, as compared with the United States Musket and Rifle," et. al., <u>American State Papers, Military Affairs</u>, VII, 466-482 (1837).
- "Report of Secretary of War Relative to Orders and Instructions to the Commander-in-Chief in Florida to Call into Service Militia and Volunteers," et. al., <u>American</u> <u>State Papers, Military Affairs</u>, VII, 918-924 (1838).

"Representative R.M. Johnson, Committee on Military Affairs, Converting the Rangers into a Regiment of Dragoons," <u>American State Papers, Military Affairs</u>, XX, 126-128 (1832).

- "Resolution of Legislature of Louisiana to Maintain 2d Regiment Dragoons," 27 Cong., 3 sess., H. doc. 156, 422.
- "Report of the Secretary of War Communicating the Report of Captain George B. McClellan," et.al., 35 Cong., sp., S. ex. doc. 1, serial 916.
- "Rules and Regulations of the Army for 1813," <u>American State</u> Papers, Military Affairs, I, 426-436.
- "Speech of Mr. C.C. Lerin of Pennsylvania on Regiment of Mounted Rifles," <u>Congressional Globe</u>, 29 Cong., 1 sess., H. of Rep. 605-609 (April 7, 1846).
- "Speech of Mr. Clernard of Illinois on Regiment of Riflemen," <u>Congressional Globe</u>, 29 Cong., 1 sess., H. of Rep., 420-421.
- "System of Fortification Recommended by the Board of Engineers," <u>American State Papers, Military Affairs</u>, III, 245-260 (1826).
- "Western Frontier Correspondence on the Subject of the Protection of the Western Frontier," et. al., 25 Cong., 2 sess., H. doc. 276, serial 328.

Military Law: Treatise and Statutory Compilations.

- Callan, John F., <u>The Military Laws of the United States</u>, et. al., (Baltimore: John Murphy, 1858).
- "Cross, Trueman, Compiled Military Laws of the United States...," et. al., <u>North American Review</u>, new series XIV (XXIII) (October 1826), 253-274.
- Holgazan, "American Military Laws," (A Review) <u>Southern</u> <u>Literary Messenger XII (July 1846), 417-426.</u>
- O'Brien, John, <u>A Treatise on American Military Laws and the</u> <u>Practice of Courts Martial, with Suggestions for their</u> Improvement (Philadelphia: Lea H. Blanchard, 1846).

Collections of Documents and Private Papers

- The Black Hawk War 1831-1832 Collections of the Illinois State Historical Library (2 vols.; Springfield: Illinois State Historical Library, 1973).
- Calhoun, <u>The Papers of John C. Calhoun</u>, ed. by W. Edwin (15 vols.; Columbia: University of South Carolina, 1981).
- Clay, Henry, <u>The Papers of Henry Clay</u>, ed. by James F. Hopkins and Mary W.M. Hargreaves (7 vols.; Lexington: University of Kentucky Press, 1959-1981).
- Davis, Jefferson, <u>Jefferson Davis Constitutionalist: His</u> <u>Letters, Papers and Speeches</u> (10 vols.: J.J. Little, 1923).

Expedition, Inspection and Travel Reports.

- Bliss, Robert S., "The Journal of Robert S. Bliss with the Mormon Battalion," <u>Utah Historical Quarterly</u> IV (July 1931), 67-96.
- Carleton, Lieutenant J. Henry, <u>The Prairie Loqbooks Draqoon</u> <u>Campaigns to the Pawnee Villages in 1844, and to the</u> <u>Rocky Mountains in 1845</u>, ed. by Louis Pelzer (Chicago: Coxton Club, 1943).
- Catlin, George, <u>North American Indians</u> (2 vols.; Edinburgh: John Grant, 1926).
- Cooke, Captain Philip St. George, "A Journal of the Santa Fe Trail," ed. by William E. Connelly, <u>Mississippi Valley</u> <u>Historical Review</u> XII (June, September, 1925), 72-98, 227-255.
- Cooke, Brevet Lieutenant-Colonel Philip St. George, "Report of Lieutenant Colonel P. St. George Cooke of his March from Santa Fe, New Mexico to San Diego, Upper California," ed. by Hamilton Gardner, <u>Utah Historical</u> <u>Quarterly XII (January 1954), 15-40.</u>
- Croghan, Colonel George, <u>Army Life on the Western Frontier:</u> <u>Selections from the Official Reports made between 1826</u> <u>and 1845</u>, et. al. (Norman: University of Oklahoma Press, 1958).

"Dragoons in the Iowa Territory, 1845," <u>Iowa Journal of</u> <u>History LI (April 1953), 156-182.</u>

- Emory, W.H., <u>Notes of a Military Reconnaissance from Fort</u> <u>Leavenworth in Missouri to San Diego, in California</u>, et. al., (Washington, D.C.: Wendell and Van Benthuzen, 1848).
- Evans, Eastwick, <u>A Pedestirous Tour, of Four Thousand Miles,</u> <u>Through the Western States and Territories</u>, et. al., in Reuben Gold Twaites, compl., <u>Early Western Travels</u> <u>1748-1846</u> (24 vols.; Cleveland: Arthur H. Clark, 1904-1907), vol. 8.
- Flagg, Edmund, <u>The Far West or, A Tour Beyond the Mountains</u>, et. al. (New York: Harper, 1838).
- Ford, Captain Lemuel, "Captain Ford's Journal of an Expedition to the Rocky Mountains," edited by Louis Pelzer, <u>Mississippi Valley Historical Review</u> XII (March 1926): 550-579.
- Gibson, George Rutledge, <u>Over the Chihurahu and Santa Fe</u> <u>Trails, 1847-1848</u>, ed. by Robert W. Frazer (Albuquerque: New Mexico University Press, 1981).
- Green, Lieutenant Duff C., "Exploring the Rio Grande: Lt. Duff C. Green's Report of 1852," ed. by Ronnie C. Tyler, <u>Arizona and the West</u> X (Spring 1968), 43-60. Hoffman, Charles Fenno, <u>A Winter in the West</u>, et. al. (n.p.)

(1863?)).

- Irving, Washington, <u>A Tour of the Prairies</u> (reprint: Norman: University of Oklahoma Press, 1956 (1836)).
- "Journal of the Atkinson-O'Fallen Expedition," ed. by Russell Reid and Clell G. Gannon, <u>Nebraska History</u> IV (October 1929), 5-56.
- "A Journal of the First Dragoons in the Iowa Territory, 1844," ed. by Robert Rutland, <u>Iowa Journal of History</u> LI (January, April 1953), 57-78, 156-182.
- Kirwan, John S., "Patrolling the Santa Fe Trail: Reminiscences of John S. Kirwan," ed. by Merril J. Maittes, <u>Kansas Historical Quarterly</u> XXI (Winter 1955), 569-587.
- Latrode, Charles Joseph, <u>The Rambler in North America:</u> <u>MDCCXXVII-MDCCXXXIII</u> (2 vols.; London: R.B. Seely, 1835).
- Kearny, Stephen Watts, "Journal of Stephen Watts Kearny," ed. by Valentine Mott Pointer, <u>Missouri Historical</u> <u>Society Collections</u> XI (1908), 8-29, 99-131.
- Mansfield, Colonel Joseph King Ferro, <u>Mansfield on the</u> <u>Condition of the Western Forts 1853-54</u> (Norman: University of Oklahoma Press, 1963).
- Marcy, Captain Randolph B. and McClellan, Brevet Captain George B., <u>Exploration of the Red River of Louisiana in</u> <u>the year 1852</u> (Washington, D.C. <u>A.O.P.</u> Nebrabron, 1854).

- Maury, Lieutenant Sylvester, "Lt. Sylvester Maury's Report on His March in 1855 from Salt Lake City to Fort Tezon," ed. by Lynn R. Bailey, <u>Arizona and the West</u> VII (Winter 1965), 329-346.
- Oliphant, Laurence, <u>Minnesota and the Far West</u> (Edinburgh: William Blackwood, 1854).
- Parker, W.B., <u>Notes Taken During the Expedition Commanded by</u> <u>Capt. R.B. Marcy, U.S.A. through Unexplored Texas in</u> <u>the Summer and Fall of 1854</u> (Philadelphia: Hays & Zell, 1856).
- Preuss, Charles <u>Exploring With Fremont</u>, et. al. (Norman: University of Oklahoma Press, 1958).
- Quaife, N.M., compl. and ed., "Journals and Reports of the Black Hawk War," <u>Mississippi Valley Historical Review</u> XII (December 1925), 392-412.
- Scott, General Winfield, "The Indian War of 1858," <u>Washing-</u> ton <u>Quarterly</u> II (April 1908), 237-240.
- Tracy, Captain Albert, "Journal 1858-1860," <u>Utah State</u> <u>Historical Society</u> XIII (October 1945), IX-XIII, 1-119.

Turner, Captain Henry Smith, <u>The Original Journals of Henry</u> <u>Smith Turner with Stephen Watts Kearny to New Mexico</u> <u>and California 1846-1847</u>, ed. by Dwight L. Clarke (Norman: University of Oklahoma Press, 1966).

Welby, Adland, A Visit to North America and the English

<u>Settlements in Illinois</u>, et. al., in Twaites, compl., Early Western Travels, XII.

Westmore, Major Alphonso, "Diary of a Journey to Santa Fe, 1828," ed. by E.E. Stephens, <u>Missouri Historical Review</u> VIII (July 1914), 177-197.

Autobiographies, Diaries, Journals and Letters.

- Anderson, Captain Robert, <u>An Artillery Officer in the</u> <u>Mexican War 1846-7</u>, et. al. (New York: G.P. Putnam, 1911).
- Autobiography of an English Soldier in the United States Army Comprising Observations and Adventures in the States and Mexico (New York: Stringer & Townsend, 1853).
- Averell, William Woods, <u>Ten Years in the Saddle the Memoirs</u> of William Woods Averell, ed. by Edward K. Eckert and Nicholas J. Amato (San Rafael: Presidio Press, 1978).
- Becknell, Captain Thomas, "The Journals of Capt. Thomas Becknell from Boone's Lick to Santa Fe and from Santa Cruz to Green River," <u>Missouri Historical Review</u> II (January 1910), 65-84.
- Bemrose, John, <u>Reminiscences of the Second Seminole War</u>. ed. by John K. Mahan (Gainesville: University of Florida Press, 1966).

Bennett, James A., Forts and Forays A Dragoon in New Mexico

1850-1856, ed. by Clinton E. Edwards and Frank D. Reese

(Albuquerque: University of New Mexico Press, 1948).
Benton, Senator Thomas Hart, <u>Thirty Years View: or a</u>
<u>History of the American Government for Thirty Years,
1820 to 1850</u>, et.al., (2 vols.; New York: D. Appleton,
1854).

- Beauregard, P.G.T., <u>With Beauregard in Mexico the Mexican</u> <u>War Reminiscences</u>, ed. by T. Harry Williams (Baton Rouge: Louisiana State University Press, 1956).
- Bieber, Ralph P., compl. and ed., <u>Marching With the Army of</u> <u>the West, 1846-1848</u> (Glendale: Arthur H. Clarke, 1936).
- Borcke, Heros van, <u>Memoirs of the Confederate War for</u> Independence (2 vols.; New York: Peter Smith, 1938).
- Boyd, Mrs. Orsemus Bronson, <u>Cavalry Wife in Tent and Field</u> (New York: J. Sewin Trent, 1894).
- Burdock, Belleraphon, "Reminiscences of a Retired Militia Officer," <u>New England Magazine</u> II (1832): 403-405, 479-483, III (1833)), 110-113.
- Chamberlain, Samuel E., <u>My Confession</u> (New York: Harper, 1956).
- Cooke, Philip St. George, <u>Scenes and Adventures in the Army:</u> or Romance of Military Life (Philadelphia: Lindsay & Blackiston, 1857).

- Custer, George Armstrong, <u>Custer in the Civil War His</u> <u>Unfinished Memoirs</u>, ed. by John M. Carroll (San Rafael: Presidio Press, 1977).
- Cutts, James Madison, <u>The Conquest of California and New</u> <u>Mexico by the Forces of the United States, in the Years</u> <u>1846 and 1847</u> (Philadelphia: Carey and Hart, 1847).
- Dallam, James B., "A Soldier's View of the Seminole War 1838-39," ed. by William D. Hoyt, Jr., <u>Florida Histori-</u> cal Quarterly XXV (April 1947), 356-362.
- "Documents-Captain Nathaniel Boone," (Journal), ed. by Walter B. Baylor, <u>American Historical Society</u> XXIV (January 1919); 253-265.
- DuPont, Henry, "West Point in the Fifties: the Letters of Henry A. DuPont," ed. by Stephen E. Ambrose, <u>Civil War</u> <u>History X</u> (September 1964), 291-308.
- Eccleston, Robert, <u>The Mariposa India War 1850-1851 Diaries</u> of Robert Eccleston, et. al., ed. by C. Gregory Crarryton (Salt Lake City: University of Utah Press, 1957).
- Edwards, Frank, <u>A Campaign in New Mexico with Colonel</u> Donipha (Ann Arbor: 1966).
- Forman, Sidney, compl., <u>Cadet Life Before the Mexican War</u> (West Point: The Library, United States Military Academy Printing Office, Bulletin no. 1, 1945).

Ferber, George C., Twelve Months Volunteer or, Journal of a

Private in the Tennessee Regiment of Cavalry, et. al. (Cincinnati: J.A. James, 1848).

General Scott and His Staff Comprising Memoirs of General Scott, Twiggs, South, Quitman, Shields, Pillow, Lane,

et. al. (Freeport: Books for Libraries Press, 1900).

- Gibson, George Rutledge, <u>Journal of a Soldier Under Kearny</u> <u>and Doniphan, 1846-1847</u> (Glendale: Arthur H. Clarke, 1935).
- Gilsan, R., <u>Journal of Army Life</u> (San Francisco: A.E. Bancroft, 1874).
- Grant, U.S., <u>Personal Memoirs</u> (2 vols.; New York: Charles L. Webster, 1885).
- Griffin, John S., "A Doctor Comes to California the Diary of John S. Griffin Assistant Surgeon with Kearny's Dragoons, 1846-1847," ed. by George Walcott Ames, Jr., <u>California Historical Society Quarterly</u> XXI (September, December 1942), 193-224, 333-357.
- Hamilton, General Charles S., "Memoirs of the Mexican War," <u>Wisconsin Magazine of History</u> XIV (September 1930), 63-92.
- Hamilton, Major-General Charles S., "Reminiscences of the Old Army Forty Years Ago," <u>Commandery of the State of</u> <u>Wisconsin, Military Order of the Loyal Legion of the</u> <u>United States War Papers</u> I (1891), 31-46.
- Hamilton, Henry S., <u>Reminiscences of a Veteran</u> (Concord: Republican Press, 1897).

- Harris, Rifleman, <u>Recollections of Rifleman Harris, as told</u> <u>to Henry W. Hing</u>, ed. by Christopher Herbert (Hamden: Archon Books, 1970).
- Hazen, General W.B., <u>A Narrative of Military Service</u> (Boston: Tucker, 1885).
- Heth, Henry, <u>Memoirs of Henry Heth</u>, ed. by James L. Morrison, Jr., (Westport: Greenwood, 1974).
- Hitchcock, Major-General Ethan Allen, <u>Fifty Years in Camp</u> and Field (New York: G.P. Putnam's 1909).
- (Hildreth, James), <u>Dragoon Campaigns to the Rocky Mountains</u> by a Dragoon (reprint; New York: Arno. 1973 (1836)).

Hood, John B., Advance and Retreat Personal Experiences in

the United States & Confederate States Armies (New York: Kraus, 1969).

- Howard, Oliver O., <u>My Life and Experiences Among our Hostile</u> <u>Indians</u>, et. al. (New York: Da Capo, 1972).
- Kelly, Plympton J., <u>We Were not Summer Soldiers; the Indian</u> <u>War Diary of Plympton J. Kelly 1855-1856</u>. ed. by William N. Bischoff (Tacoma: Washington State Historical Society, 1976).
- Kenly, John R., <u>Memoirs of a Maryland Volunteer War with</u> <u>Mexico in the Years 1846-7-8</u> (Philadelphia: J.B. Lippincott, 1873).
- Keyes, Brevet Brigadier-General E.D., <u>Fifty Years' Observa-</u> <u>tions of Men and Events Civil and Military</u> (New York: Charles Scribner's, 1884).

Lane, Henry S., "The Mexican War Journal of Henry S. Lane," ed. by Graham A. Barringer, <u>Indiana Magazine of History</u> LIII (December 1957), 383-434.

Larson, Sergeant James, <u>Sergeant Larson 4th Cavalry</u> (San Antonio: Southern Literary Institute, 1935).

Lowe, Percival, Five Years a Dragoon (New York: 1904).

- Lowe, Percival G., "Recollections of Fort Riley," <u>Kansas</u> Historical Collections VII (1901-1902), 101-113.
- Majors, Alexander, <u>Seventy Years on the Frontier</u> (reprint; Columbus: 1950 (1893)).
- Manigault, Arthur Middleton, <u>A Carolinian Goes to War</u>, et. al., (Columbia: University of South Carolina Press, 1983).
- Marcy, Randolph B., <u>Border Reminiscences</u> (New York: Harper, 1872).
- Marcy, Randolph B., <u>Thirty Years of Army Life on the Border</u> (New York: Harper, 1866).
- Maury, General Dabney Herdon, <u>Recollections of a Virginian</u> (New York: Charles Scribner, 1894).
- McCall, Major-General George A., <u>Letters from the Frontiers</u> (Gainesville: University Presses of Florida, 1974).

McClellan, Major-General George B., <u>McClellan's Own Story</u> <u>the War for the Union</u>, et. al. (New York: Charles Webster, 1887).

McCrea, Tully, Dear Belle Letters from a Cadet & Officer to

his Sweetheart, 1858-1865 (Middleton: Wesleyan University, 1965).

- Meek, A.B., "The Journal of A.B. Meek and the Second Seminole War, 1836," ed. by John K. Mahan, <u>Florida</u> <u>Historical Quarterly</u> XXXVIII (April 1960), 302-318.
- Meyers, Augustus, <u>Ten Years in the Ranks of the U.S. Army</u> (New York: Arno, 1979).
- Motte, Jacob Rhett, <u>Journey Into Wilderness an Army Sur-</u> <u>qeon's Account of Life in Camp and Field during the</u> <u>Creek and Seminole Wars 1836-1838</u>, ed. by James F. Sunderman (Gainesville: University of Florida, 1963).

Peck, Lieutenant John James, <u>The Sign of the Eagle a View of</u> Mexico -- 1830 to 1855 (San Diego: Copley, 1970).

- "Recollections of the Rifles," <u>Southern Literary Messenger</u> XXXIII (November 1861), 371-380.
- Reid, Samuel C., Jr., <u>The Scouting Expeditions of McCul-</u> <u>loch's Texas Rangers</u> et. al. (Philadelphia: John E. Potter, 1859).
- "Robert E. Lee to Albert Sydney Johnston 1857," ed. by Marilyn McAdams Sibley, <u>Journal of Southern History</u> XXXIX (February 1963), 100-107.
- Sanford, George B., <u>Fighting Rebels and Redskins Experiences</u> in Army Life of Colonel B. Sanford 1861-1892. ed. by

E.R. Hageman (Norman: University of Oklahoma, 1969). Schofield, Lieutenant General John M., <u>Forty-Six Years in</u> <u>the Army</u> (New York: Century, 1897).

- Scott, Lieutenant General Winfield, <u>Memoirs</u> (2 vols.; New York, Sheldon, 1864).
- Sherman, General William T., <u>Memoirs</u>, et. al. (Bloomington: Indiana University Press, 1957).
- Sheridan, General P.H., <u>Personal Memoirs</u> (2 vols.; New York: Charles L. Webster, 1888).
- Sillman, Auguste E., <u>A Gallop Among American Scenery or,</u> <u>Sketches of American Scenes and Military Adventure</u> (New York: D. Appleton, 1843).
- Smith, E. Kirby, <u>To Mexico with Scott, Letters of Captain E.</u> <u>Kirby Smith to his Wife</u> et. al. (Cambridge: Harvard University Press, 19177).
- Smith, Joseph, "Letters from the Second Seminole War," ed. by John K. Mahan, <u>Florida Historical Quarterly</u> XXXVI (April 1958), 331-352.
- <u>A Soldier of the Seventy-First, the Journal of a Soldier of</u> <u>the Highland Light Infantry 1806-1815</u> (London: Leo Cooper, 1975).
- Sprague, John T., "Macomb's Mission to the Seminoles: John T. Sprague's Journal Kept during April and May 1839," <u>Florida Historical Quarterly</u> XXV (October 1956), 130-193.
- Stanley, Major-General D.S., <u>Personal Memoirs</u> (Cambridge: Harvard University Press, 1917).
- Tallort, Theodore, <u>Soldier in the West Letters During his</u> Service in California and Oregon, <u>1845=53</u>, ed. by

Robert K. Hine and Savoie Lattimville (Norman: University of Oklahoma Press, 1972).

- Taylor, Zachary, "Zachary Taylor and the Black Hawk War," (Letters), ed. by Holman Hamilton, <u>Wisconsin Magazine</u> of History XXIV (March 1941), 305-315.
- Taylor, Zachary, "Zachary Taylor on Jackson and the Military Establishment, 1835", ed. by william B. Hoyt, Jr., <u>American Historical Review LI (April 1946), 480-484</u>.
- Viele, Theresa, <u>"Following the Drum" A Glimpse of Frontier</u> Life (New York: Rudd & Carleton, 1858).
- Wilson, James Harrison, <u>Under the Old Flaq</u>, et. al. (New York: D. Appleton, 1912).
- "With the First U.S. Cavalry in Indian Country, 1859-1861 Letters to <u>The Daily Times</u>, Leavenworth", ed. by Louise Barry, <u>Kansas Historical Quarterly</u> XXIV (1958), 257-284, 399-425.

Reporting: Military and Political

- Brackenridge, H.M., <u>History of the Late War Between the</u> <u>United States and Great Britain</u>, et. al. (Philadelphia: James Kay, 1845).
- Brackett, Albert G., <u>General Lane's Brigade in Central</u> <u>Mexico</u> (Cincinnati: H.W. Derby, 1854).
- "Campaign in the Crimea", <u>Quarterly Review</u> XLVI (March 1855), 200-260.

Cass, Lewis, "Indians of North America", <u>North American</u> Review new series XIII (January 1826), 53-119.

- Cohen, M.M., <u>Notices of Florida and the Campaigns</u> (Gainesville: University of Florida, 1964).
- "Condition of the Indians", <u>Niles' Weekly Register</u> XLVII (October 4, 1834): 76-77.
- Cooke, Philip St. George, <u>The Conquest of New Mexico and</u> <u>California</u> et. al. (reprint; Albuquerque: Horn and Wallace, 1964 (1878)).
- David, Citizen, <u>History of the Campaigns of General Dichegry</u> <u>Containing the Operations of the Armies of the North</u>, et. al. (London: G.G.J. and J. Robinson, 1796).
- (A Democrat), "A Critic Views Iowa's First Military Post,"
 ed. by Donald Jackson, <u>Iowa Journal of History</u> LX
 (January 1960), 31-36.
- "Desertions in the Army," <u>Niles' Weekly Register</u> XXXVIII (March 24, 1830), 68.
- Donner, John, "Scott's Battles in Mexico," <u>Harper's New</u> Monthly Magazine XI (1855), 311-324.
- "The Dragoons", <u>Niles' Weekly Register</u> XLVII (February 7, 1835), 403-404.
- "The Electric Telegraph", <u>Quarterly Review</u> XCV (June 1854), 118-164.
- (Eustis, Will), "Passports Through the Indian Country the Secretary of War to Silas Dunsmore", <u>Niles' Weekly</u> Register XXXIV (April 12, 1828), 110-113.

"Expedition of the Dragoons to the West", <u>Niles' Weekly</u> <u>Register</u> XLVII (October 4, 1834), 74-76.

- Flint, Timothy, <u>Indian Wars of the West</u>, et. al. (reprint; New York: 1971 (1831)).
- "From the Dragoons", <u>Niles' Weekly Register</u> XLIX (October 17, 1835), 106.
- Frost, John, <u>The War and its Warriors Comprising a Complete</u> <u>History of the Operations of the American Armies in</u> <u>Mexico</u>, et. al. (Philadelphia: Hogan & Thompson, 1848).
- "General Winfield Scott", <u>American Whig Review</u> XII (September 1850), 276-289.
- Head, T.B., "The Red Man", <u>Quarterly Review</u> LXV (March 1840), 384-419.
- (Hill, Daniel H.), "The Battle of Churubusco", <u>Southern</u> Quarterly <u>Review</u> XXII (1852), 78-116.
- (Hill, Daniel), "The Battle of Contreras", <u>Southern Quar-</u> terly Review XXI (1851), 373-426.
- "Indian Outrages", <u>Niles' Weekly Register</u> XXXV (November 29, 1828), 214.
- "The Indians of the United States Their Past, Their Present, and Their Future", <u>DeBow's Review</u> XVI (February 1854), 143-149.
- "The Italian Campaign of 1859", <u>Edinburgh Review</u> CX (October 1859), 454-494.

Kearny, Philip, "Service With the French Troops in Africa in

the Campaign of June 1840 - Expedition Against Mili-

anah", Magazine of History extra no. 22 (1913), 1-54.

- "Life of Blucher", <u>Quarterly Review</u> LXX (September 1842), 446-485.
- "Louis Napoleon and the French, <u>DeBow's Review</u> XVI (1854), 382-396.
- Mansfield, Edward, <u>The Life of General Winfield Scott</u> <u>Embracing his Campaign in Mexico</u> (New York: A.S. Barnes, 1848).
- "Miscellaneous", (report on the Leavenworth-Dodge Expedition), <u>Niles' Weekly Register</u> XLVII (September 20, 1834), 38.
- "Movement of Troops", <u>Niles' Weekly Register</u> XXXVI (May 16, 1829), 182.

"Our Army in Mexico", DeBow's Review II (1846), 426-430.

Paris, Comte de Orleans, Louis Philippe Albert, History of

<u>the Civil War in America</u> (3 vols.; Philadelphia: Jos. H. Coates: 1875).

- Potter, Woodburne, <u>The War in Florida</u> (reprint; Ann Arbor: University Microfilms, 1966 (1836)).
- "Removal of the Indians", <u>North American Review</u> XXX (1830), 62-121.
- "A Report of the Secretary of War of the U.S. on Indian Affairs, Comprising A Narrative of a Tour Performed in the Summer of 1826, Under a Commission from the

President of the U.S.", et. al., North American Review LVI (1823), 30-45.

- Rodenbaugh, Theo F., <u>From Everglade to Cannon With the</u> <u>Second Dragoons</u> (New York: D. Van Nostrand, 1875).
- St. Clair, Arthur, <u>A Narrative of the Manner in which the</u> <u>Campaign Against the Indians, in the Year 1791, was</u> <u>Conducted</u>, et. al. (reprint; New York: Arno Press, 1971 (1819)).
- Sprague, Brevet Captain John T., <u>The Origins, Progress, and</u> <u>Conclusion of the Florida War</u>, et. al. (reprint; Gainesville: University of Florida Press, 1964 (1848)).
- "United States Dragoons", <u>Niles' Weekly Register</u> XLVI (August 2, 1834), 389-390.

Periodicals.

Army and Navy Chronicle and Scientific Repository, 13 vols., 1835-1842.

Works on the Art and Science of War.

- "Academy at West Point", <u>American Quarterly Review</u> XVI (December 1834), 358-375.
- "The Armies of Europe", <u>Putnam's Monthly Magazine</u> VI (1855), 193-206, 306-317, 561-581.

Beauregard, Pierre G.T., Principles of Maxims of the Art of

War, et. al. (3rd ed.; New Orleans: Brande Gill, 1890).

- Bismark, Count von, <u>Lectures on the Tactics of Cavalry</u> (London: William H. Ainsworth, 1827).
- Bloch, Louis M., comp., <u>Overland to California in 1859: A</u> <u>Guide for Wagon Train Travelers</u> (Cleveland: Bloch, nd).
- Brett, Captain Wilford, <u>Hints on Bivouac & Camp Life</u>, et. al. (Halifax, Nova Scotia: Richard Nugent, 1855).
- Buckholtz, L.V., <u>Tactics for Officers of Infantry, Cavalry</u>,
- and Artillery (Richmond: J.W. Randolph, 1861). Butler, Benjamin F., <u>The Military Profession of the United</u>
 - States and the Means of Promoting Usefulness and Honor,

et. al. (New York: Samuel Brabazon).

Cadet Life at West Point (Boston: T.O.H.P. Burnham, 1862).

- Captain Luke, <u>Soldiers and Their Science</u> (London: John W. Parker, 1860).
- Clausewitz, General Cal von, <u>On War</u> (reprint; Princeton: Princeton University Press, 1976).
- Cooke, Philip St. George, "Our Cavalry", <u>United Service</u> I (July 1879), 329-345.
- Darrow, Pierce, <u>National Militia Standard Embracing the</u> <u>Discipline of Infantry, Light Infantry, Artillery,</u> <u>Horse Artillery, Cavalry</u>, et. al. (Hartford: O.D. Cooke, 1822).

Delafield, Colonel Richard, Report on the Art of War in

Europe, 1854, 1855, and 1856 (Washington, D.C.: George W. Bowman, 1861).

Denison, Colonel George T., <u>A History of Cavalry, from the</u> <u>Earliest Times with Lessons for the Future</u> (London: MacMillan, 1913).

- Denison, Lieutenant-Colonel George T., <u>Modern Cavalry: Its</u> <u>Organization, Armament and Employment in War</u>, et. al. (London: Thomas Dodsworth, 1868).
- DePeyster, John Watts, <u>Organization of the Militia</u> (n.p.: n.p.).
- Dodge, W.C., <u>Breech Loaders Versus Muzzle Loaders or, How to</u> <u>Strengthen our Army and Crush the Rebellion</u>, et. al. (Washington, D.C.: p.p., 1865).

Duane, William, <u>The American Military Library; or, Compen-</u> <u>dium of the Modern Tactics Embracing the Discipline,</u> <u>Manoeuvres, and Duties of Every Species of Troops</u>. et. al. (Philadelphia: p.p., 1809).

Duparcq, Captain Ed. BeLa Barbe, <u>Elements of Military Art</u> <u>and History</u>, et. al. (New York: D. van Nostrand, 1863).

("Fair Play"), "Notes on our Army Reply to 'A Subaltern'", Southern Literary Messenger X (April 1844), 509-510.

"Fortifications of Paris", <u>Quarterly Review</u> LXXVIII (1846), 769-797.

- Frederick the Great, <u>Instructions for his Generals</u> (Harrisburg: Military Service Publishing, 1944).
- Gay de Verron, Simon Francis, <u>A Treatise on the Science of</u> <u>War and Fortification</u>, et. al. (2 vols.; New York: J. Seymour, 1811).
- Graham, Lieutenant-Colonel J.J., <u>Elementary History of the</u> <u>Progress of the Art of War</u> (London: Richard Bentley, 1858).
- Graham, Colonel James J., <u>Military Ends and Moral Means</u> <u>Exemplifying the Higher Influence Affecting Military</u> <u>Life and Character</u>, et. al. (London: Smith, Elder, 1864).
- Halleck, H. Wagner, <u>Elements of Military Art and Science</u>, et. al. (New York: D. Appleton, 1861).
- Higginson, T.W., "Regular and Volunteer Officers", <u>Atlantic</u> <u>Monthly XIV</u> (September 1864), 348-357.
- Hoyt, E., <u>Practical Instruction for Military Officers</u>, et. al. (reprint; Westport: Greenwood, 1971 (1811)).
- Jackson, Robert, <u>A View of the Formation, Discipline and</u> Economy of Armies (London: p.p., 1804).
- Jebb, Sir Joshua, Practical Treatise on Strengthening and <u>Defending Outposts, Villages, Houses,Bridges, etc., in</u> <u>Reference to the Duties of Officers</u>, et. al. (London: Clowes, 1857).
- Jomini, Baron de, <u>The Art of War</u> Revised ed.; (Philadelphia: J.B. Lippincott, 1862).

- Jomini, Baron de, <u>Treatise on Grand Military Operations or a</u> <u>Critical and Military History of the Wars of Frederick</u> <u>the Great as Contrasted with the Modern Systems</u>, et. al (2 vols.; New York: D. Van Nostrand, 1865).
- Kingsbury, C.P., <u>An Elementary Treatise on Artillery and</u> <u>Infantry Adapted to the Service of the United States</u>, et. al. (New York: G.P. Putnam, (1856).
- Kirby, S.W. and Kennedy, J.R., <u>Tactical Schemes with</u> <u>Solutions Suitable for Promotion and Stf. Col. Entrance</u> <u>Examinations and for Practice in Applying Tactical</u> <u>Principles</u>, et. al. (London: Clowes, 1831).
- (a Late Captain of Infantry). <u>HInts Bearing on the United</u> <u>States Army with an Aim at the Adaptation, Availabil-</u> <u>ity, Efficiency and Economy There of</u> (Philadelphia: Henry B. Ashmead, 1858).
- Lendy, Captain Auguste Frederic, <u>Elements of Fortification:</u> <u>Field and Permanent</u>, et. al. (London: John W. Parker, 1857).
- Lendy, Captain Auguste F., <u>Maxims, Advice and Instructions</u> on the Art of War, et. al. (New York: D. Van Nostrand, 1862).
- Leslie, Chs., <u>A Treatise on the Employment of Light Troops</u> <u>on Actual Service</u>, et. al. (London: Clowes, 1843).
- MacDougall, Lieutenant-Colonel Patrick Leonard, <u>The Theory</u> <u>of War</u>, et. al. (London: Longman, Green, Longman and Roberts, 1862).

- MacDougall, Lieutenant-Colonel Patrick Leonard, <u>Modern</u> <u>Warfare as Influenced by Modern Artillery</u> (London: John Murray, 1864).
- Magrath, Lieutenant Richard Nicholson, <u>An Historical Sketch</u> of the Progress of the Art of War (Dublin: William Curry, 1838).
- Mahan, Dennis Hart, <u>An Elementary Treatise on Advanced-</u> <u>quard, Outpost</u>, and Detachment Service of Troops, and <u>the Manner of an Enemy</u>, et. al. (New York: J. Wiley, 1853).
- Mahan, Dennis Hart, <u>A Treatise on Field Fortifications</u>, et. al. (New York: John Wiley, 1861).
- Malthy, Isaac, <u>The Elements of War</u> (3rd ed.; Hartford: Peter B. Gleason, 1815).
- Mansfield, Edward, "The Military Academy at West Point", <u>American Journal of Education</u> new series XXX (March 1863), 17-48.
- Marshall, Henry, <u>Military Miscellany; Comprehending a</u> <u>History of the Recruiting of the Army, Military</u> Punishment, et. al. (London: J. Murphy, 1845).

Marcy, Captain Randolph, <u>A Handbook for Overland Expedi-</u> tions, et. al. (New York: Harper, 1859).

McClellan, George B., <u>The Armies of Europe Comprising</u> <u>Descriptions in Detail of the Military Systems of</u> <u>England, France, Russia, Prussia, Austria and Sardinia</u>, et. al. (Philadelphia: J.B. Lippincott, 1861).

- McClellan, George B., <u>European Cavalry</u> (Philadelphia: J.B. Lippincott, 1861).
- "Military Academy United States West Point, June, 1828", <u>Niles' Weekly Register</u> XXXIV (July 19, 1828), 341-343.
- "Military Education", <u>Quarterly Review</u> LXXXIII (September 1848), 419-450.
- "The Military Establishment of the United States", <u>Southern</u> Literary Messenger XVII (February 1851), 65-78.
- "Militia Reform", <u>New England Magazine</u> VII (July 1834), 51-59.
- Mitchell, Lieutenant-Colonel John, <u>Thoughts on Tactics and</u> <u>Military Organizations</u>, et. al. (London: Longmans, 1838).
- "Modern Tactics", <u>Southern Literary Messenger</u> XXVI (January 1858), 1-20.
- Mordecai, Major Alfred, <u>Military Commission to Europe in</u> <u>1855 and 1856 Report of Major Alfred Mordecai</u>, et. al. (Washington, D.C.: George W. Bowman, 1860).
- "Moral Discipline of the Army", <u>Quarterly Review</u> LXXVIC (September 1845), 387-424.
- Morton, First-Lieutenant John c., <u>Memoirs on American</u> <u>Fortification</u> (Washington, D.C.: William A. Harris, 1859).
- Napoleon, <u>Napoleon's Maxims of War the Officer's Manual</u> (New York: James C. Gregory, 1861).

- Neff, Jacob K., <u>The Army and Navy of America</u>, etc. (Philadelphia: J.H. Pearsol, 1845).
- Nolan, Captain L.E., <u>Cavalry: Its History and Tactics</u> (Columbia: Evans, 1864).
- (An Officer of High Standing in the U.S. Army), "National Defense", <u>Monthly Magazine</u> V (February 1855), 122-128.
- "Our Military Establishment", <u>Quarterly Review</u> LXXII (March 1848), 453-483.
- "Our Sea Coast Defense and Fortification System", <u>Putnam's</u> <u>Monthly Magazine</u> VI (March 1856), 314-325.
- Pope, Captain John, "Captain John Pope's Plan of 1853 for the Frontier Defense of New Mexico", ed. by Robert M. Utley, <u>Arizona and the West</u> V (Summer 1963), 149-163.
- "Report of the Secretary of War November 30th, 1839, Accompanying the President's Message to Congress, December 2d, 1839", <u>North American Review</u> VIII (July 1840), 158-172.
- "Reports of the Boards of Visitors of the Military Academy at West Point, in June 1830, and June, 1831", <u>North</u> American Review XXIV (1832), 246-261.
- "Rifled Firearms", <u>Eclectic Magazine of Foreign Literature</u>, <u>Science and Art</u> LIII (August 1861), 556-561.
- Robinson, Fayette, <u>An Account of the Organization of the</u> <u>Army of the United States with Biographies of Distin-</u> <u>quished Officers of all Grades</u> (2 vols.; Philadelphia: E.H. Butler, 1848).

Roemer, J., <u>Cavalry:</u> Its History, Management, and Uses in War (New York: D. van Nostrand, 1863).

Schalk, Emil, <u>Summary of the Art of War: Written Expressly</u> and Dedicated to the U.S. Volunteer Army (Philadelphia: J.B. Lippincott, 1862).

- Scheliha, Viktor Ernest Karl Rudolf von, <u>A Treatise on</u> <u>Coastal Defense</u> (London: E. and F.N. Spon, 1868).
- Schon, J., <u>Rifled Infantry Arms: A Brief Description of the</u> <u>Modern System of Small Arms</u> (2nd ed., Washington, D.C.: George W. Bowman, 1855).
- Scott, Colonel H.L., <u>Military Dictionary</u>, et. al. (New York: D. van Nostrand, 1864).
- Smith, Major-General Michael W., <u>A Treatise on Drill and</u> <u>Manoeuvres of Cavalry Combined With Horse Artillery</u> (London: Longman, Roberts, & Green, 1865).
- Straith, Hector, <u>Treatise on Fortification and Artillery</u>, rev. by Thomas Cook and John T. Hyde (London: William H. Allen, 1858).
- (A Subaltern), "Notes on the Army", Southern Literary Messenger X (1844), 86-87, 155-157, 246-251, 283-287, 372-387.
- Summer, William H., <u>An Inquiry Into the Importance of the</u> <u>Militia to a Free Commonwealth</u> (Boston: Cummings and Hillard, 1823).
- Szaband, Captain Emeric, <u>Modern War:</u> Its Theory and Practice (New York: Harper, 1863).

- Thackery, Captain Thomas Jones, <u>The Military Organization</u> <u>and Administration of France</u> (2 vols.; London: Thomas Coutley Newby, 1856).
- "United States Military Academy", <u>Southern Literary Messen-</u> ger IX (1843), 665-670.
- Vattel, E. de, <u>The Laws of Nations</u>, or the Principles of <u>Natural Law</u> (3 vols.; Washington, D.C.: 1916 (1758)).
- Vauban, Sebastien Le Prestrede, <u>A Manual of Sieqecraft and</u> <u>Fortification</u> (reprint; Ann Arbor: University of Michigan Press, 1968 (1748)).
- Viele, Captain Egbert, <u>Handbook for Active Service</u>, et. al. (New York: Greenwood, 1861).
- "West Point Academy", (Report of the Board of Visitors) Niles' Weekly Register XXXVI (July 4, 1829), 311-312.
- "West Point and Cadet Life", Putnam's Monthly Magazine IV

(August 1854), 192-204.

- Wilcox, Captain C.M., <u>Rifles and Rifle Practice: An</u> <u>Elementary Treatise Upon the Theory of Rifle Firing</u>, et. al. (New York: D. van Nostrand, 1859).
- Wilkinson, Henry, <u>Engines of War: or, Historical and</u> <u>Experimental Observations on Recent and Modern Warlike</u> <u>Machines</u>, et. al. (London: Longman, Anne, Brown, Green and Longmans, 1841).
- Wolfe, James, <u>Instructions to Young Officers</u>, et.al. (Ontario: Museum Restoration Services, 1967 (1780)).

Anderson, Robert, Evolution of Field Batteries of Artillery,

et. al. (New York: D. van Nostrand, 1860). Arentsschildt, Lieutenant-colonel Fredrich von, <u>Instructions</u>

for Officers and Non-Commissioned Officers of Cavalry

on Outpost Duty (Richmond: J.W. Randolph, 1861).

Berriman, Captain N.W., <u>The Militiaman's Manual and Sword-</u> Play, et. al. (New York: D. van Nostrand, 1864).

Board of Artillery Officers, <u>Instructions for Field Artil-</u> <u>lery</u>, et. al. (Washington, D.C.: Government Printing

Office, 1864). Casey, Silas, <u>Infantry Tactics for the Instruction, Exercise</u>

- and Manoeuvre of the Soldier, et. al. (3 vols.; New York: D. van Nostrand, 1862).
- Cooke, Philip St. George, <u>Cavalry Tactics or Regulations for</u> <u>the Instructions, Formations, and Movements of the</u> <u>Cavalry of the Army and Volunteers of the United States</u> (Washington, D.C.: U.S. Government Printing Office, 1862).

Cooper, Samuel, Cooper's Cavalry Tactics for the use of Volunteers, et. al, (New Orleans: H.P. Lathrop, 1861). Curry, John P., Volunteers' Compound and Field Book, et. al. (Richmond: West & Johnson, 1862).

Davis, Colonel J. Lucus, The Trooper's Manual or, Tactics

for Light Dragoons and Mounted Riflemen (Richmond: A. Morris, 1861).

- Dunn, Major M.I., <u>A Military Pocket Manual for Militia</u> <u>Officers</u> (Cincinnati: p.p., 1831).
- <u>General Regulations for the Military Forces of the State of</u> <u>New York</u> (Albany: Constances & Cassidy, 1863).
- Gibbon, Brigadier-General John, <u>The Artillerist's Manual</u>, et. al. (Revised ed.; New York: D. van Nostrand, 1863).
- Gilham, Major William, <u>A Manual of Instruction for the</u> <u>Volunteers of the United States</u> (Philadelphia: Charles Descher, 1861).
- Hardee, Brevet Lieutenant-Colonel W.J., <u>Rifle and Light</u> <u>Infantry Tactics</u> et. al. (2 vols.; Philadelphia: 1855).
- Hewes, Robert, <u>Rules and Regulations for the Sword Exercise</u> of the Cavalry, et. al. (2d ed.; Boston: William Norman, 1802).
- LeLouterel, General, <u>Manual of Military Reconnaissances</u>, <u>Temporary Fortifications and Partisan Warfare</u>, et. al. (Atlanta: J. McPherson, 1862).
- Light Infantry Manual of Arms, Adapted to the Rifle Musket et. al. (New York: Chatterson & Parker, 1861).
- Maury, D.H., <u>Skirmish Drill for Mounted Troops</u> (Richmond: J.W. Randolph, 1861).

- McClellan, Major-General George B., <u>Regulations for the</u> <u>Service of Cavalry in Time of War</u> (Philadelphia: J.B. Lippincott, 1863).
- The Ordnance Manual for the Use of the Officers of the United Stats Army (Philadelphia: J.B. Lippincott, 1862).
- Patten, George, <u>Cavalry Drill and Saber Exercise</u>, et. al. (Richmond: West & Johnston, 1862).
- Patten, George, <u>Patten's Artillery Containing the School of</u> <u>the Piece and Battery Manoeuvres</u>, et. al. (New York: J.W. Fortune, 1863).
- Richardson, Colonel JNO. H., <u>Infantry Tactics or, Rules for</u> the Exercise and Manoeuvres of the Confederate States

<u>Infantry</u>, et. al. (Richmond: West & Johnston, 1862). Scott, Major-General Winfield, <u>Infantry Tactics</u>, or, <u>Rules</u>

for the Exercise and Manoeuvres of the United States

Infantry (3 vols.; New York: Harper, 1854).

- Swan, Colonel James B., <u>Rules, Regulations, Forms and</u> <u>Suggestions for the Instruction and Guidance of the</u> <u>U.S. Cavalry (New York: Baker & Goodwin, 1863).</u>
- The System of Discipline and Manoeuvres of Infantry, et. al. (Philadelphia: p.p., 1807).
- United States Inspector-General's Office, <u>Regulations for</u> <u>the Order and Disciplines of the Troops of the United</u> <u>States</u> (Baron de Steuben), et. al. (12th ed.; Bennington: 1794).

United States Ordnance Department, Artillery for the Land

<u>Service</u> (Washington, D.C.: J. and G.S. Gideon, 1849). United States War Department, Cavalry Tactics (3 vols.;

Washington, D.C.: J. and G.S. Gideon, 1841).

United States War Department, <u>Cavalry Tactics School of the</u> Trooper of the Platoon, and the Squadron (3 vols.;

Philadelphia: J.B. Lippincott: 1861).

United States War Department, <u>Cavalry Tactics First and</u> <u>Second Parts, School of the Trooper</u>, et. al. (Washing-

ton, D.C.: Government Printing Office, 1863).

United States War Department, <u>General Regulations for the</u> <u>Army, or Military Institutes</u> (Philadelphia: 1821).

United States War Department, <u>General Regulations for the</u> Army (Washington, D.C.: 1834).

United States War Department, <u>Regulations for the Army of</u>

the United States 1861 (New York: Harper, 1861).

United States War Department, Regulations for the U.S.

Military Academy, et. al. (New York: John F. Trow, 1857).

United States War Department, <u>Rules and Regulations for the</u> <u>Field Exercise and Manoeuvres of Infantry</u>, et. al. (New York: William A. Mercein, 1818).

United States War Department, <u>A System of Target Practice</u> for the Use of Troops When Armed With the Musket, et. al. (2 vols.; Philadelphia: J.B. Lippincott, 1861). Wheeler, Major-General Joseph, <u>A Revised System of Cavalry</u>

Tactics, et. al. (Mobile: S.H. Goetzel, 1863).

Wizard, Norman, <u>Wizard's System of Field Artillery</u>, et. al. (New York: 1863).

Secondary Sources:

Articles.

- Agnew, Brad, "The Dodge-Leavenworth Expedition of 1834", Chronicles of Oklahoma LII (Fall 1975), 376-396.
- Agnew, Brad, "The 1858 War Against the Comanches", <u>Chroni-</u> <u>cles of Oklahoma</u> XLVII (Summer 1971), 211-229.
- Allen, George, "The Life of Jomini", <u>United State Service</u> Magazine II (October 1864), 351-364.
- Ambrose, Stephen E., "A Theorist Fights: Emory Upton in the Civil War", <u>Civil War History</u> IX (December 1963), 341-364.
- Ansell, Major S.T., "Legal and Historical Aspects of the Militia", <u>Yale Law Journal</u> XXVI (April 1917), 470-480. Athearn, Robert G., "The Fort Buford Massacre", <u>Mississippi</u>
 - Valley Historical Review XLI (March 1955), 675-684.
- Arthur George, "The Soldier as Student", <u>Fortnightly Review</u> LXXXII (1907), 621-629.
- Ballenger, T.L., "Colonel Albert Sidney Johnston's March through Indian Territory to 1855", <u>Chronicles of</u> <u>Oklahoma</u> XLVII (Summer 1969), 132-137.

- Barry, Louise, "The Fort Leavenworth-Fort Gibson Military Road and the Founding of Fort Scott", <u>Kansas Historical</u> <u>Quarterly</u> XI (1942), 115-129.
- Bauer, Jack, "The Vercruz Expedition of 1847", <u>Military</u> Affairs XX (1956), 162-169.
- Bell, Henry, "Cavalry Raids and the Lessons they Teach Us", Journal of the U.S. Cavalry Association XIX (1908-1909), 142-152.
- Beers, Henry Putney, "The Army and the Oregon Trail to 1846", <u>Pacific Northwest Quarterly</u> XXVIII (1937), 339-362.
- Beers, Henry Putney, "Military Protection of the Santa Fe Trail to 1843", <u>New Mexico Historical Review</u> XII (April 1937), 113-133.
- Bender, A.B., "Frontier Defense in the Territory of New Mexico", <u>New Mexico Historical Review</u> IX (October 1934), 345-373.
- Bender, A.B., "Government Exploration in the Territory of New Mexico 1846-1859", <u>New Mexico Historical Review</u> IX (January 1934), 1-32.
- Bender, A.B., "The Soldier in the Far West 1848-1860", Pacific Historical Review VIII (1939), 159-178.
- Bien, David", The Army in the French Enlightenment", <u>Past &</u> Present no. 85 (November 1979), 68-98.

Bittle, George C., "First Campaign of the Second Seminole

War", <u>Florida Historical Quarterly</u> XLVI (July 1967), 39-45.

- Bittle, George C., "Florida Frontier Incidents during the 1850's", <u>Florida Historical Quarterly</u> XLIX (October 1970), 153-160.
- Blackburn, Colonel Forrest R., "The Army in Western Exploration", Military Review LI (September 1971), 75-90.
- Blackburn, Colonel Forrest, "Fort Leavenworth: Logistical Base for the West", <u>Military Review</u> LIII (December 1973), 3-12.
- Bloom John P., "New Mexico View by Anglo-Americans, 1846-1849", <u>New Mexico Historical Review</u> XXXIV (1959), 165-198.
- Bond, Brian, "Doctrine and Training in the British Cavalry 1870-1914", in Howard, Michael, ed., <u>The Theory and</u> <u>Practice of War</u> (Bloomington: Indiana University Press, 1975), 97-125.
- Boney, F.N., "The Military Tradition in the South", <u>Midwest</u> <u>Quarterly</u> XXII (Winter 1980), 163-174.
- Brett-James, Antony, "War and Logistics 1861-1918", <u>History</u> <u>Today</u> XIV (September 1964), 597-607.
- Broadhead, G.C., "The Santa Fe Trail", <u>Mississippi Valley</u> Historical Review IV (July 1910), 311-319.
- Brodie, Bernard, "On Clausewitz: A Passion for War", <u>World</u> <u>Politics</u> XXV (January 1973), 288-308.

- Brown, Alan S., "The Role of the Army in Western Settlement Josiah Harmer's Command, 1785-1790", <u>Pennsylvania</u> <u>Magazine of History and Biography</u> XCIII (April 1969), 161-178.
- Brown, M.L., "Notes on U.S.Arsenals, Depots, and Martial Firearms of the Second Seminole War", <u>Florida Histori</u> cal Quarterly LXI (April 1983), 445-458.
- Bulery, R.C., "Indiana in the Mexican War", <u>Indiana Magazine</u> of <u>History</u> XV (September, December 1919), 260-292, 293-326, XVI (March 1920), 416-468.
- Caldwell, Norman, "The Frontier Army Officer, 1794-1814", <u>Mid-America</u> XXXXVI (1955), 101-128.
- Campbell, E.G., "Railroads in National Defense, 1829-1848", <u>Mississippi Valley Historical Review</u> XXVII (December 1940), 361-378.
- Carleton, William G., "Raising Armies Before the Civil War", in Morten Anderson and Barbara Honeggar, ed., <u>The</u> <u>Military Draft Selected Readings on Conscription</u> (Stanford: Hoover Institution Press, 1982), 67-78.
- Carrington, General Henry Beebee, "Winfield Scott's Visit to Columbus", <u>Ohio Archaeological and Historical Quarterly</u> XIX (July 1910), 279-292.
- Casey, Powell A., "Military Roads in the Florida Parishes of Louisiana", <u>Louisiana History</u> XV (Summer 1974), 229-242.

- Castel, Albert, "Winfield Scott", <u>American History Illus-</u> <u>trated XVI (June, July 1981), 10-17, 26-29.</u>
- Chesney, Lieutenant-Colonel C.C., "The Advance of Science in Military Operations", <u>Macmillan's Magazine</u> XXVI (May 1872), 8-24.
- Chaput, Donald, "Babes in Arms", <u>Journal of Arizona History</u> XIII (Autumn 1972), 197-204.
- Christy, Howard A., "The Walker War: Defense and Conciliation as Strategy", <u>Utah Historical Quarterly</u> XLVII (Fall 1979), 395-420.
- Cimmay, William E., "The Story of Fort Larned", <u>Kansas</u> <u>Historical Quarterly</u> XXIII (Autumn 1957), 257-280.
- Clark, Robert Carlton, "Military History of Oregon 1849-59", Oregon Historical Quarterly XXXVI (May 1935), 14-59.
- Clark, Don Elbert, "Frontier Defense in Iowa, 1850-1865",

Oregon Historical Quarterly XXXVI (May 1935), 14-59.

- Clark, Don Elbert, "Frontier Defense in Iowa,1850-1865", <u>Iowa Journal of History and Politics</u> XVI (July 1918), 315-386.
- Clarke, Dwight, "Soldiers Under Stephen Watts Kearny", <u>California Historical Society Quarterly</u> XLV (1966), 133-148.
- Cohen, Eliot A., "Guessing Game: A Reappraisal of Systems Analysis", in Huntington, Samuel P., ed., <u>The Strategic</u> <u>Imperative New Policies for American Security</u> (Cambridge: Ballinger, 1982), 163-191.

- Colgrove, Kenneth W., "The Attitude of Congress toward the Pioneers of the West, 1820-1850: I. Relations between the Pioneers and the Indians," <u>Iowa Journal of History</u> and Politics IX (March 1911), 196-302.
- Collins, Lieutenant-Colonel Edward M., "Clausewitz and Democracy's Small Wars", <u>Military Affairs</u> XIX (Spring 1955), 15-20.
- Conger, A.L., "The Function of Military History", <u>Missis-</u> <u>sippi Valley Historical Review</u> III (September 1916), 161-171.
- Connolly, Major-General Donald H., "What and Why is a General Staff?" <u>Military Engineer</u> XII (May-June 1921), 222-229.
- Coulter, Richard, "Westmoreland Guards in the War with Mexico, 1846-1848", <u>Western Pennsylvania Historical</u> <u>Magazine</u> XXIV (1941), 101-126.
- Covington, James W., "Life at Fort Brooke, 1824-1836." <u>Florida Historical Quarterly</u> XXXXVI (April 1958), 319-330.
- Cowley, W.H., "European Influence upon American Higher Eduction", <u>Educational Record</u> XX (April 1939), 165-190.
- Crackel, Theodore J., "Jefferson Policy and the Army; an Examination of the Military Peace Establishment Act of 1802", Journal of the Early Republic II (1982), 22-38.

Craig, Gordon A., Brinton, Crane and Gilbert, Felix, "Jomini" in Earle, Edward Meade, ed., <u>Makers of Modern</u> <u>Strategy Military Thought from Machiavelli to Hitler</u> (Princeton: Princeton-University Press, 1944).

Crosbie-Western, R., "The Crimean War", in Lawford, James, ed., The Cavalry (Berkshire: Sampson Low, 1976).

- Cress, Lawrence Delbert, "Radical Whiggery on the Role of the Military: Ideological Roots of the American Revolutionary Militia", <u>Journal of the History of Ideas</u> XL (January-March 1979), 43-60.
- Cunliffe, Marcus, "The American Military Tradition", in Allen, H.C., ed., <u>British Essays in American History</u> (reprint; Sussex: Bookprint, 1969 (1957)), 207-224.
- Cuverille,Cavelier de, "The Progress in Naval Artillery from 1855 to 1880", <u>Ordnance Notes</u> no. 203 (June 19, 1882), 1-24.
- Davis, Carl L. and Fischer, LeRoy H., "Dragoon Life in Indian Territory 1833-1846", <u>Chronicles of Oklahoma</u> XLVIII (Spring 1970), 2-24.
- Davis, Major George B., "General Henry Leavenworth", <u>Journal</u> of the United States Cavalry Association VIII (December 1895), 261-267.
- Davis, Kenneth, "The Cherokee Removal, 1835-1838", <u>Tennessee</u> <u>Historical Quarterly</u> XXXII (Winter 1973), 311-331.

"Defending Puget Sound against the Northern Indians",

Pacific Northwest Quarterly XXXVI (January 1945), 69-78.

- Dillon, Lester R., "American Artillery in the Mexican War 1846-1847", <u>Military History of Texas and the Southwest</u> II (1973), 7-29, 109-127, 149-172, 233-240.
- Dowling, R.L., "Infantry Weapons of the Mexican War", Antiques XXXVIII (November 1940), 228-230.
- Downey, Fairfax, "Field and Siege Pieces", <u>Civil War History</u> II (1956), 65-74.
- Dunlay, Thomas W., "Indian Allies in the Armies of the New Spain and the United States A Comparative Study", <u>New</u> <u>Mexico Historical Review</u> LVI (July 1981), 239-258.
- Ellis, Richard N., "Volunteer Soldiers in the West, 1865", Military Affairs XXXIV (April 1970), 53-56.
- Fann, Willard R., "On the Infantryman's Age in Eighteenth Century Prussia", <u>Military Affairs</u> XLI (December 1977), 165-170.
- Feld, M.D., "Middle-Class Society and the Rise of Military Professionalism: the Dutch Army, 1589-1609", <u>Armed</u> Forces and Society I (August 1975), 419-442.
- Fensten, Joseph J., "Indian Removal", <u>Chronicles of Oklahoma</u> XI (December 1933), 1073-1083.
- Forman, Sidney, "The United States Military Philosophical Society, 1802-1813", <u>William and Mary Quarterly</u> 2nd series II (January 1945), 273-285.

- Forman, Sidney, "Why the United States Military Academy was Established in 1802", <u>Military Affairs</u> XXIX (Spring 1965), 16-28.
- Freedom, Gary S., "Military Forts and Logistical Self-Sufficiency on the Northern Great Plains 1866-1891", North Dakota History L (Spring 1983), 4-11.
- Fuller, J.F.C., "The Place of the American Civil War in the Evolution of War", <u>Army Quarterly</u> XXVI (1933), 316-325.
- Gagan, David P., "A Prophet Without Honor: George Taylor Denison III, Cavalry Historian", <u>Virginia Magazine</u> of History and Biography LVI (July 1948), 267-279.
- Gallagher, Ruth A., "The Military-Indian Frontier 1830-1835", <u>Iowa Journal of History and Politics</u> XV (July 1917), 393-428.
- Gardner, Hamilton, "Captain Philip St. George Cooke and the March of the 1st Dragoons to the Rocky Mountains in 1845", <u>Colorado Magazine</u> XXX (October 1953), 245-269.
- Gardner, Hamilton, "Philip St. George Cooke and the Apache, 1854", <u>New Mexico Historical Review</u> XXVIII (April 1953), 115-132.
- Gardner, Hamilton, "Romance at Old Containment Leavenworth the Marriage of 2d Lt. Philip St. George Cooke in 1830", <u>Kansas Historical Quarterly</u> XXII (Summer 1956), 97-113.

- Gillet, Mary C., "Thomas Lawson, Second Surgeon General of the U.S. Army: A Character Sketch", <u>Proloque</u> XIV (Spring 1982), 15-24.
- Godfrey, Brevet-Major E.S., "Cavalry Fire Discipline", <u>By</u> <u>Valor and Arms</u> II (1976), 31-36.
- Goldman, Henry H., "A Survey of Federal Escorts of the Santa Fe Trade 1829-1843", <u>Journal of the West</u> V (October 1966), 504-516.
- Goodpasture, Albert, "Indian Wars and Warriors of the Old Southwest 1730-1807", <u>Tennessee Historical Magazine</u> IV (March 1918), 3-49; (June 1918), 106-145; (September 1918), 161-210; (December 1918), 385-424.
- Graebner, Norman A., "Lessons of the Mexican War", <u>Pacific</u> Historical <u>Review</u> XLVII (August 1978), 325-342.
- Graham, Stanley, "Routine at Western Cavalry Posts, 1833-1861", Journal of the West XV (July 1976), 49-59.
- Greene, J. Evarts, "The Santa Fe Trade: Its Route and Character", <u>Journal of the U.S. Cavalry Association</u> X (September 1897), 264-277.
- Gregg, Kate L., "Building of the First American Fort West of the Mississippi", <u>Missouri Historical Review</u> XXX (July 1936), 345-364.
- Hafen, LeRoy R., "The Fort Pueblo Massacre and the Punitive Expedition against the Utes", <u>Colorado Magazine</u> IV (March 1927), 49-58.

Hagan, William T., "The Dodge-Henry Controversy", Journal of

the Illinois State Historical Society L (Winter 1957), 377-384.

Hagan, William T., "General Henry ATkinson and the Militia", Military Affairs XXIII (Winter 1959-1960), 194-197.

Hagerman, Edward, "From Jomini to Dennis Hart Mahan the the

Evolution of French Warfare and the American Civil War", <u>Civil War History</u> XIII (September 1967), 197-220.

- Hagerman, Edward, "The Professionalization of George B. McClellan and early Field Command: an Institutional Perspective", <u>Civil War History</u> XXII (June 1975), 113-135.
- Hagerman, Edward, "The Tactical Thought of R.E. Lee and the Origins of Trench Warfare in the American Civil War, 1861-1862", Historian XXXVIII (November 1975), 21-38.

Harris, Captain Moses, "The Union Cavalry", <u>Journal of the</u> U.S. Cavalry Association V (March 1892), 3-26.

- Harsh, Joseph L., "Broadsword and Rapier: Clausewitz, Jomini and the American Civil War", <u>Military Affairs</u> XXXVIII (December 1970), 127-131.
- Hattaway, Herman and Jones, Archer, "Lincoln as Military Strategist", <u>Civil War History</u> XXVI (December 1980), 293-303.
- Headrick, Daniel R., "The Tools of Imperialism: Technology and the Expansion of European Colonial Empires in the

Nineteenth Century", <u>Journal of Modern History</u> LI (June 1979), 231-263.

- Heyman, Max L., "On the Navaho Trail: the Campaign 1860-61", <u>New Mexico Historical Review</u> XXVI (January 1951), 44-63.
- Hickey, Donald R., "Federalist Defense Policy in the Age of Jefferson 1801-1812", <u>Military Review</u> XLV (April 1981), 63-70.
- Holabird, Brevet Brigadier-General S.B., "Army Wagon Transport", <u>Ordnance Notes</u> no. 169 (April 15, 1882), 1-30.
- Holden, W.C., "Frontier Defense 1846-1860", <u>West Texas</u> Historical Association Year Book VI (1930), 39-71.
- Holborn, Hajo, "Moltke's Strategical Concepts", <u>Military</u> Affairs VI (1942), 153-168.
- Holmes, Joseph, "The Decline of the Pennsylvania Militia 1815-1870", <u>Western Pennsylvania Historical Magazine</u> VII (April 1924), 199-217.
- Holyroyd, Richard, "The Bourbon Army 1815-1830", <u>Historical</u> Journal (Cambridge) XIV (September), 529-552.
- Hopkins, Richard C., "Kit Carson and the Navajo Expedition", <u>Montana the Magazine of Western History</u> XVIII (April 1968), 52-61.
- HOuston, Donald E., "The Role of Artillery in the Mexican War", Journal of the West XI (April 1972), 273-284.

- Howard, Michael, "The Forgotten Dimensions of Strategy", Foreign Affairs LVII (Summer 1979), 975-986.
- Hughes, Willis B., "The First Dragoons on the Western Frontier, 1834-1846", <u>Arizona and the West</u> XII (Summer 1970), 115-138.
- Hunter, Leslie Gene, "The Mojave Expedition of 1858-59", Arizona and the West XXI (Summer 1979), 137-156.
- Huntington, Samuel P., "Equilibrium and Disequilibrium in American Military Policy", <u>Political Science Quarterly</u> LXXVI (December 1961), 481-502.
- Hutton, Major E.T.H., "Mounted Infantry Its Present and Its Future", Journal of the Military Service Institution of the United States X (1889), 340-356.
- Huxford, Gary, "Origins of the American Military Tradition Reconsidered", <u>Rocky Mountain Social Science Journal</u> VIII (October 1971), 119-125.
- Hyolt, A.M., "The Origins of Napoleonic Warfare: A Survey of Interpretations", <u>Military Affairs</u> XXX (Winter 1966-1967), 177-185.
- Irvine, Dallas D., "The French and Prussian Staff Systems
 Before 1870", <u>Military Affairs</u> II (Winter of 1938),
 192-203.
- Irvine, Dallas D., "The Origins of Capital Staffs", <u>Journal</u> of Modern History X (June 1938), 161-179.

Jack, Theodore H., "Alabama and the Federal Government: The

Creek Indian Controversy", <u>Mississippi Valley Histori-</u> <u>cal Review</u> III (December 1916), 301-317.

- Jackson, W. Turrentine, "The Army Engineers as Road Builders in Territorial Iowa", <u>Iowa Journal of History</u> XLVII (January 1949), 15-33.
- Jessup, John E., "Problems of Selecting a Standard Weapon for the Army: the Breechloader Issue", in <u>United</u> <u>States Commission on Military History, Colloquium on</u> <u>Military History Proceedings (Chicago: 1979), 5-20.</u>
- Johnson, Sally A., "The Sixth's Elysian Fields Fort Atkinson on the Council Bluffs", <u>Nebraska History</u> XL (March 1959), 1-38.
- Johnston, R.M., "The Geometrical Factor in Napoleon's Generalship", <u>Papers of the Military Historical Society</u> <u>of Massachusetts</u> XIV (1918), 423-433.
- Jones, Archer, "Jomini and the Strategy of the American Civil War A Reinterpretation", <u>Military Affairs</u> XXXIV (December 1970), 127-131.
- Jones, Archer, "The United States Army at the Little Big Horn", North Dakota History XLII (Spring 1975), 22-27.
- Karnes, Thomas C., "Gilpins' Volunteers on the Santa Fe Trail", <u>Kansas Historical Quarterly</u> XXX (Spring 1964), 1-14.
- Kearny, Thomas, "Philip Kearny Soldier of America Soldier of France", <u>American Society of the Legion of Honor</u>

<u>Magazine</u> (Legion D'Hommer) VII (October 1936), 115-123.

- Kerby, Robert L., "The Militia System and the State Militias in the War of 1812." <u>Indiana Magazine of History</u> LXXIII (June 1977), 102-124.
- Kimball, Jeffrey, "The Battle of Chippewa: Infantry Tactics in the War of 1812", <u>Military Affairs</u> XXXI (Winter 1967-1968), 169-186.
- Koester, Susan, "The Indian Threat Along the Santa Fe Trail", <u>Pacific Historian</u> XVII (Winter 1973), 13-29.
- Kopp, April, "Camel Corps, USA", <u>American History Illus-</u> <u>trated</u> XVI (December 1981), 8-17.
- Kovacs, Arpod, "French Military Institutions before the Franco-Prussian War", <u>American Historical Review</u> LI (January 1946), 217-235.
- Kraft, Zu Hohen-Lohe-Ingelfingen, Prince, "Fighting on Foot of the Cavalry", Journal of the U.S. Cavalry Association IV (December 1891), 413-418.
- Kraft, Zu Hohen-Lohe-Ingelfingen, Prince, "Lessening the Field of Cavalry Work in Battle through the Improvement in Firearms", <u>Journal of the U.S.Cavalry Association</u> II (March 1889), 66-73.
- "The Lance", <u>Journal of the U.S. Cavalry Association</u> III (June 1890), 210-216.

Lane, Brevet Lieutenant-Colonel William B., "Our Cavalry in

Mexico", <u>United Service</u> VI (July-December 1891), 429-450.

- Lane, Brevet Lieutenant-Colonel William B., "The Regiment of Mounted Riflemen, or, from Puebla to the City of Mexico", <u>United Service XIV</u> (July-December), 301-313.
- Lane, Brevet Lieutenant-Colonel William B., "The U.S. Cavalry in the Mexican War", <u>Journal of the U.S.</u> <u>Cavalry Association</u> III (December 1890), 388-408.
- Lane, Brevet Lieutenant-Colonel William B., "What OUr Cavalry in Mexico Did and Did Not Do", <u>Journal of the</u> <u>U.S. Cavalry Association</u> XV (1896), 482-503.
- Liddell Hart, B.H., "Armed Forces and the Art of War: Armies", in Bury, J.P.T., <u>The New Cambridge Modern</u> <u>History</u> X (15 vols.; Cambridge, U.K.: Cambridge University Press, 1960), X, 302-330.
- Lumley, Captain J.R., "Mounted Riflemen", <u>Ordnance Notes</u> no. 169 (November 2, 1881), 1-14.
- Lunt, James, "Napoleon's Cavalry", <u>History Today</u> V (November 1960), 747-759.
- Luvass, Jay, "Cavalry Lessons of the Civil War", <u>Civil War</u> <u>History Illustrated</u> IX (January 1974), 20-31.
- Luvass, Jay, "Military History: Is It Still Practicable?: <u>Parameters</u> XIV (May 1982), 2-14.
- Lynn, John N., "Self Image and Weaponry: The French Fascination with the Pike, 1724-1794", in <u>Colloquium on</u> <u>Military History</u>, 21-40.

- "Machine Guns: Their Status in Warfare", <u>Ordnance Notes</u> no. 173 (January 10, 1882), 1-21.
- Mahan, John K., "Anglo-American Methods of Indian Warfare, 1676-1794", <u>Mississippi Valley Historical Review</u> XLV (September 1958), 254-275.
- Mahan, John K., "Civil War Infantry Assault Tactics", Military Affairs XXVI (Summer 1961), 57-68.
- Maitland, Colonel, "On the Metallurgical Manufacturing of Modern British Ordnance", <u>Ordnance Notes</u> no. 195 (May 23, 1882), 1-48.
- Manning, William R., "Diplomacy Concerning the Santa Fe Road", <u>Mississippi Valley Historical Review</u> I (March 1915), 516-531.
- Marvin, Garfield, "Defense of the Kansas Frontier 1858-1860", <u>Kansas Historical Quarterly</u> I (November), 451-473.
- Mathews, Jay A., "The Second U.S. Cavalry in Texas, 1855-1861", <u>Military History of Texas and the Southwest</u> IV (1973), 229-231.
- Mattison, Roy H., "The Military Frontier on the Upper Missouri", <u>Nebraska History</u> XXXVII (1956), 159-182.
- Maude, Lieutenant-Colonel F.N., "Military Training and Modern Weapons", <u>Contemporary Review</u> LXXVII (190), 305-322.

- May, Robert E., "Dixie's Martial Image: A Continuing Historiographical Enigma," <u>Historian</u> XL (February 1978): 213-234.
- McClure, Charles R., "Neither Effective Nor Fundamental the Difficulties of Indian Defense in New Mexico, 1837-1846," <u>Military History of Texas and the Southwest</u> X (1974): 73-92.
- McGinnis, Anthony, "A Contest of Wits and Daring: Plains Indians at War with the U.S. Army," <u>North Dakota</u> <u>History XLVIII (Spring 1981): 24-32.</u>
- McGraw, Robert F., "Minutemen of '61: the Pre-Civil War Massachusetts Militia," <u>Civil War History</u> XV (June 1969): 101-115.
- McGuffie, T.H., "The Bayonet A Survey of the Weapon's Employment in Warfare in the Past Three Centuries," <u>History Today XIII (August 1962): 588-593.</u>
- McGuffie, T.H., "The Lance in Battle," <u>History Today</u> VIII (August 1958): 547-580.
- McGuffie, T.H., "Musket and Rifle: Part I," <u>History Today</u> VII (April 1956): 257-263.
- McGuffie, T.H., "Musket and Rifle: Part II," <u>History Today</u> VII (July 1957): 473-479.
- McNitt, Frank, "Navaho Campaigns and the Occupation of New Mexico, 1847-1848," <u>New Mexico Historical Review</u> XLVIII (July 1968): 173-194.

McWhiney, Grady, "Who Whipped Whom? Confederate Defeat Reexamined," <u>Civil War History XII (March 1965)</u>: 5-26.

- Meade, Robert D., "The Military Spirit of the South," Current History XXX (April 1929): 55-60.
- Merrit, Major-General Wesly, "Life and Services of General Philip St. George Cooke, U.S. Army," <u>Journal of the</u> U.S. Cavalry Association VIII (June 1895): 79-92.
- Michie, P.S., "Education in its Relation to the Military Profession," <u>Journal of the Military Service</u> Institution of the United States I (1880): 154-184.
- Miller, E. Arnold, "Some Arguments used by English Pamphleteers, 1697-1700, Concerning a Standing Army," <u>Journal of Modern History</u> XVIII (December 1946): 306-313.
- Morgan, Dale L., "The Administration of Indian Affairs in Utah, 1851-1858," <u>Pacific Historian</u> XVII (November 1948): 383-409.
- Morgan, Prentice G., "The Forward Observer," <u>Military</u> Affairs XXIII (Winter 1959-1960): 209-212.
- Morrison, James L., Jr., "Educating the Civil War Generals: West Point, 1833-1861," <u>Military Affairs</u> XXXVIII (October 1979): 108-111.
- Morton, Desmond, "Cavalry or Police: Keeping the Peace on two Adjacent Frontiers, 1870-1900," <u>Journal of Canadian</u> <u>Studies</u> XII (Spring 1977): 27-35.

Morton, Lewis, "Origins of American Military Policy," <u>Military Affairs</u> XXII (Summer 1958): 75-82.

Mueller, Richard E., "Jefferson Barracks: the Early Years,"

<u>Missouri Historical Review</u> LXVII (October 1972): 7-31. Murphy, Major-General James, "The Evolution of the General Staff Concept," <u>Defense Management Journal</u> XII (July 1976): 34-39.

- Nackman, Mark E., "The Making of the Texas Citizen Soldier, 1835-1860," <u>Southwestern Historical Quarterly</u> LXXVIII (1975): 231-253.
- Napier, Lieutenant-Colonel John Hawkins, III, "The Militant South Revisited: Myths and Realities," <u>Alabama Review</u> XXXII (October 1980): 243-265.
- Nelson, Harold C., "Military Roads for War and Peace 1791-1836," Military Affairs XIX (Spring 1955): 1-14.
- Nichols, Roger C., "The Army and the Indians 1800-1830 -- A Reappraisal: The Mississippi Valley Example," <u>Pacific</u> <u>Historical Review</u> XLI (May 1972): 151-168.
- Nichols, Roger C., "Army Contributions to River Transportation, 1818-1825," <u>Military Affairs</u> XXXII (April 1969): 242-249.
- Nichols, Roger C., "The Black Hawk War: Another View," Annals of Iowa XXXVI (Winter 1963): 525-533.
- Oates, Stephen B., "The Texas Rangers in the Mexican War," <u>Texas Military History III (1963): 65-84.</u>

- Oliva, Leo F., "The Army and the Indian," <u>Military Affairs</u> XXVIII (October 1974): 117-119.
- Ott, Eloise, "Fort King: A Brief History," <u>Florida</u> Historical Quarterly XLVI (July 1967): 29-38.
- Palmer, Brigadier-General Williston B., "American Policy on Raising Armies," in <u>The Evolution of Military Policy</u> <u>the United States</u> (Carlisle Barracks: Army Information School, 1946).
- Paret, Peter, "Clausewitz and the Nineteenth Century," in Howard, ed., Theory and Practice of War, 23-41.
- Paret, Peter, "Education, Politics, and War in the life of Clausewitz," <u>Journal of the History of Ideas</u> XXIX (July-September 1968): 294-408.
- Parker, Geoffrey, "The 'Military Revolution' 1560-1660 -- A Myth?" Journal of Modern History XLVIII (June 1976): 195-214.
- Peckham, Howard H., "Josiah Harmar and his Indian Expedition," <u>Ohio State Archaeological and Historical</u> <u>Quarterly</u> LV (July-September 1946): 227-241.
- Perrine, Fred S., "Military Escorts on the Santa Fe Trail," <u>New Mexico Historical Review</u> II (April, July 1927): 175-193, 269-304, III, 265-300.
- Pocock, J.G.A., "Machiavelli, Harrington, and English Political Ideologies in the Eighteenth Century," <u>William and Mary Quarterly</u> third series XXII (October 1965): 549-583.

- Pohl, James W., "The Influence of Antoine Henri de Jomini on Winfield Scott's Campaign in the Mexican War," <u>Southwestern Historical Quarterly</u> LXXVII (1973): 86-110.
- Preston, A.W., "British Military Thought, 1856-90," <u>Army</u> <u>Quarterly LXXXIX (1964): 57-74.</u>
- Pritchard, Captain G.B., "The Saber," <u>Journal of the U.S.</u> Cavalry Association XVIII (January 1908): 521-535.
- Prucha, Francis Paul, "The Settler and the Army in Frontier Minnesota," <u>Minnesota History</u> XXIX (September 1948): 231-246.
- Reedstrom, David, "U.S. Cavalry Tactical Manuals," Colloquium on Military History, 74-84.

Reeves, Lieutenant James H., "Cavalry Raids," <u>Journal of the</u>

- U.S. Cavalry Association X (September 1897): 232-247. Rickey, Don, Jr., "The Enlisted men of the Indian Wars," <u>Military Affairs XXIII (1961): 91-96.</u>
- Rister, Carl Coke, "A Federal Experiment in Southern Plains Relations 1835-1845," <u>Chronicles of Oklahoma</u> XIV (December 1936): 434-455.
- Robinson, Willard B., "Maritime Frontier Engineering: The Defense of New Orleans," <u>Louisiana History</u> XVIII (Winter 1977): 5-62.
- Robrock, David, "The Eleventh Ohio Volunteer Cavalry on the Central Plains, 1862-1866," Louisiana History XVIII (Winter 1977): 5-62.

Rogin, Michael P., "Liberal Society and the Indian Question," <u>Politics and Society</u> I (May 1971): 269-312.

- Rosinski, Herbert, "Scharnhorst to Schlieffen: The Rise and Decline of German Military Thought," <u>Naval War College</u> <u>Review XXIX (Summer 1976): 83-103.</u>
- Ross, Steven T., "The Development of the Combat Division in Eighteenth Century French Armies," <u>French Historical</u> <u>Studies</u> IV (Spring 1965): 84-94.
- Rothenberg, Gunter E., "The Austrian Army in the Age of Metternich," <u>Journal of Modern History</u> XL (june 1968): 155-165.
- Rothfels, H., "Clausewitz:, in Edward, ed., <u>Makers of Modern</u> Strategy, 96-113.
- Ruggles, W. Oakley, "Early Recollections of Fort Dodge," <u>Iowa Journal of History</u> XLIX (April 1951): 168-184.
- Russell, Peter E., "Redcoats in the Wilderness: British Officers and Irregular Warfare in Europe and American, 1740-1760," <u>William and Mary Quarterly</u> 3rd series, XXXV (October 1978); 629-7=652.
- Sacks, B., "The Origins of Fort Buchanan Myth and Fact," Arizona and the West VII (Autumn 1965): 207-226.
- Sayles, Stephen, "Thomas Hart Benton and the Santa Fe Trail," <u>Missouri Historical Review</u> LXIX (October 1974): 1-22.

Schwoerer, Lois G., "The Literature of the Standing Army

Controversy, 1697-1699," <u>Huntington Library Quarterly</u> XXVIII (May 1965): 187-212.

- Scott, S.F., "The French Revolution and the Professionalization of the French Officer Corps, 1789-1793," in Morris Janowitz and Jacques van Dorn, <u>On</u> <u>Military Ideology</u> (Rotterdam: Universitarie Pers Rotterdam, 19971), 5-56.
- Scott, Samuel F., "The Regeneration of the Line Army during the French Revolution," <u>Military Affairs</u> XLII (September 1970): 307-330.
- Sebring, F.M., "The Indian Raid on the Cascades in March, 1856," <u>Washington Historical Quarterly</u> XIX (April 1928): 99-107.
- Showalter, Dennis E., "The Prussian <u>Landwehr</u> and its Critics, 1813-1819," <u>Central European History</u> IV (March 1971): 3-33.
- Shy, John, "The American Military Experience: History and Learning," <u>Journal of Interdisciplinary History</u> I (Winter 1971): 205-228.
- Simpson, B.M., "The Essential Clausewitz," <u>Naval War College</u> Review XXXV (March-April 1982): 54-61.
- Skelton, William B., "Army Officers' ATtitudes toward Indians, 1830-1860," <u>Pacific Northwest Quarterly</u> LXVII (July 1967): 113-124.

Skelton, William B., "The Commanding General and the Problem

of Command in the United Stats Army, 1821-1841," Military Affairs XXXIV (December 1970): 117-122.

- Smith, Cornelius C., "Our First Amphibious Assault," Military Review XXXVIII (1959): 18-28.
- Smith, Paul T., "Militia of the United States from 1846 to 1860," <u>Indian Magazine of History</u> XV (March 1919): 20-47.
- Smith, Major Samuel B., "Military Small Arms," <u>Ohio</u> <u>Commandery of the Military Order of the United States,</u> <u>Sketches of War History</u> I (1888): 174-187.
- Stackpole, Lieutenant-General E.J., "Generalship in the Civil War," <u>Military Affairs</u> XXIV (Summer 1960): 57-67.
- Starr, Stephen Z., "Cold Steel: the Saber and the Union Cavalry," <u>Civil War History</u> XI (June 1965): 142-154.
- Strachan, Hew, "Soldiers, Strategy and Sebastopol," <u>Historical Journal</u> (Cambridge) XXI (June 1978): 303-325.
- Symonds, Craig, "The Failure of America's Indian Policy on the Southwestern Frontier, 1785-1793," <u>Tennessee</u> Historical Quarterly XXV (Spring 1976): 29-45.
- Symons, Lieutenant Thomas W., "The Army and the Exploration of the West," <u>Journal of the Military Service Institute</u> IV (September 1883); 205-249.

Taylor, Mendell Lee, "The Western Service of Stephen Watts

Kearny, 1815-1848," <u>New Mexico Historical Review</u> XLIV (October 1969): 269-291.

- Taylor, Morris F., "Action at Fort Massachusetts: the Indian Campaign of 1855," <u>Colorado Magazine</u> XLII (Fall 1965): 292-310.
- Taylor, William L., "The Debate over changing Cavalry Tactics and Weapons, 1900-1914," <u>Military Affairs</u> XXVIII (Winter 1965): 173-183.
- Thomlinson, M.H., "The Dragoons and El Paso, 1848," <u>New</u> <u>Mexico Review</u> XXIII (1948): 271-224.
- Thompson, Jerry D., "Henry Hopkins Sibley and the Mexican War," Texana II (1973): 285-308.
- Trench, Charles Chenevix, "From Arquebus to Rifle: the Pursuit of Perfection," <u>History Today</u> XXIII (June 1973): 407-417.
- Trussell, Lieutenant-Colonel John B.B., "Seminoles in the Everglades A Case Study in Guerilla Warfare," <u>Army</u> XII (December 1961): 41-45.
- Upham, Cyril B., "Historical Survey of the Militia in Iowa, 1838-1865," <u>Iowa Journal of History and Politics</u> XVII (July 1919): 299-405.
- Uselding, Paul J., "Technical Progress at the Springfield Armory, 1820-1850.
- Utley, Robert M., "Fort Union and the Santa Fe Trail," <u>New</u> <u>Mexico Historical Review</u> XXXVI (January 1961\0\; 36-48.

- Vigness, David M., "Indian Raids on the Lower Rio Grande, 1836-1837," <u>Southwestern Historical Quarterly</u> LXIX (July 1955): 14-23.
- Wade, Arthur P., "Roads to the Top an Analysis of General Officer Selection in the United States Army, 1789-1898," <u>Military Affairs</u> XL (December 1976): 1557-163.Wallace, Edward S., "The United States Army in Mexico City,"

Military Affairs XIII (1949): 158-166.

- Walker, Wayne T., "Nathan Boone the Forgotten Hero of Missouri," <u>Journal of the West</u> XVIII (April 1979): 85-94.
- Watson, Michael L., Jr., "Congressional Attitudes Toward Military Preparedness, 1829-1835," <u>Mississippi Valley</u> <u>Historical Review</u> XXXIV (March 1948): 611-636.
- Westerner, J.R., "Armies" in Goodwin, A., ed., <u>New Cambridge</u> Modern History, VIII, 190-217.
- Whiteside, Henry O., "Winfield Scott and the Mexican Occupation: Policy and Practice," <u>Mid-America</u> LII (April 1970): 102-118.
- Wilkinson, Norman B., "The Forgotten Founder of West Point," Military Affairs XXIV (Winter 1960-1961): 177-188.

Williams, Bradley B., "A Soldier's Life at Ft. Atkinson," Palimpset LXIII (November/December 1982): 162-171.

Williams, T. Harry, "The Return of Jomini - Some Thoughts on Recent Civil War Writing," <u>Military Affairs</u> XXXIX (December 1975): 204-206.

- Worcester, D.E., "The Weapons of American Indians," <u>New</u> Mexico Historical Review XX (July 1945): 227-238.
- Wright, Colonel John W., "Some Notes on the Continental Army," <u>William and Mary Quarterly</u> 2nd series XI (April, July 1931): 81-101; 185-209.
- Wright, John W., "Sieges and Customs of War at the opening of the Eighteenth Century," <u>American Historical Review</u> XXXIX (July 1934): 629-644.
- Young, Otis E., "Dragoons on the Santa Fe Trail in the Summer of 1843," <u>Chronicles of Oklahoma</u> XXXII (Spring 1954): 42-51.
- Young, Otis E., "The United States Mounted Ranger Battalion, 1832-1833." <u>Mississippi Valley Historical Review</u> XLI (December 1954): 453-470.
- Young, Rogers W., "Fort Marion during the Seminole War, 1835-1842," <u>Florida Historical Society Review</u> XIII (April 1935): 193-223.

Unpublished Theses:

Griess, Thomas Everett, "Dennis Hart Mahan: West Point Professor and Advocate Military Professionalism, 1830-1871, Ph.D. dissertation, Duke University, 1968.

Schaeffer, James A., "The Tactical and Strategic Evolution of Cavalry During the American Civil War," Ph.D. dissertation, University of Toledo, 1982. Skelton, William Barratt, "The United States Army, 1821-1837: An Institutional History," Ph.D. dissertation, Northwestern University, 1968.

Thiele, Thomas, "The Evolution of Cavalry in the American Civil War, 1861-1863," Ph.D. dissertation, University of Michigan, 1951.

Bibliography

Books:

Adams, Charles Francis, <u>Studies Military and Diplomatic</u> 1775-1865 (New York: Macmillan, 1911).

- Agnew, Brad, Fort Gibson Terminal on the Trail of Tears (Norman: University of Oklahoma Press, 1980).
- Ablon, Robert Greenhalgh, <u>Introduction to Military History</u> (New York: D. Appleton-Century, 1929).
- Alger, John I., <u>The Quest for Victory the History of the</u> <u>Principles of War</u> (Westport: Greenwood, 1982).
- Ambrose, Stephen E., <u>Duty, Honor, Country A History of West</u> Point (Baltimore: John Hopkins Press, 1966).

Ambrose, Stephen D., Halleck: Lincoln's Chief of Staff

(Baton Rouge: Louisiana State University Press, 1962). Ambrose, Stephen D., <u>Upton and the Army</u> (Baton Rouge:

Louisiana State University Press, 1964).

- Ammon, Harry, James Monroe the Quest for National Identity (New York: McGraw-Hill, 1971).
- Armstrong, David, <u>Bullets and Bureaucrats the Machine Gun</u> <u>and the United States Army, 1861-1916</u> (Westport: Greenwood: 1982).

- Armstrong, Perry, <u>The Sauk and the Black Hawk War</u>, et. al. (Springfield: 1887).
- Arthur, Robert, <u>History of Fort Monroe</u> (Fort Monroe: Coast Artillery School, 1930).
- Asprey, Robert B., <u>War In The Shadows The Guerrilla In</u> History (2 vols.; Garden City: 1975).
- Athearn, Robert G., Forts of the Upper Missouri (Englewood Cliffs: Prentice-Hall, 1967).
- Bailey, L.R., <u>The Long Walk A History of the Navajo Wars</u>, <u>1846-1868</u> (reprint; Los Angeles: Westernlore Press, 1964 (1918)).
- Balik, Colonel, <u>Tactics</u> (2 vols.; Fort Leavenworth: U.S. Cavalry Association, 1915).
- Bancroft, Hurbert Howe, <u>History of Arizona and New Mexico</u> <u>1530-1888</u> (San Francisco: History Company Publishers, 1889).
- Barker, A.J., Redcoats (London: Gordon & Cremones, 1976).
- Barker, Thomas M., <u>Army, Aristocracy, Monarchy: Essays on</u> <u>War, Society, and Government in Austria, 1618-1780</u> (Boulder: Social Science Monographs, 1982).

Barnard, Henry, Military Schools and Courses of Instructions

in the Science and Art of War, et. al. (rev. ed.; New Barnett, Corelli, Britain and Her Army 1509-1970 A Military,

Political and Social Survey (New York: William Morrow, 1970).

Beebe, Gilbert W. and DeBakey, Michael E., <u>Battle of</u> <u>Casualties, Incidence, Mortality and Logistic</u> <u>Considerations</u> (Springfield: Charles C. Thomas, 1952).
Becke, Captain Archibald F., <u>An Introduction to the History</u>

of Tactics 1740-1905 (London: Hugh Rees, 1909). Beers, Henry Putney, The Western Military Frontier 1815-1846

(Philadelphia: Time and News, 1935).

Bernhardi, Van, <u>Cavalry A Popular Edition of "Cavalry In War</u> and Peace", (London: Hodeler & Staughton, 1914).

Bender, Averam B., <u>The March of Empire Frontier Defense in</u> the Southwest 1848-1860 (Lawrence: University of

Kansas Press, 1952).

- Bernardo, Major C. Joseph and Bacon, Eugene H., <u>American</u> <u>Military Policy Its Development Since 1775</u> (Harrisburg: Military Service Publishing, 1955).
- Best, Geoffrey, <u>War and Society In Revolutionary Europe</u> 1770-1870 (New York: St. Martin's 1982).
- Bigelow, Captain John, Jr., <u>The Principles of Strategy</u> <u>Illustrated Mainly from American Campaigns</u> (Philadelphia: J.B. Lippincott, 1894).
- Billington, Ray Allen, <u>The Far Western Frontier 1830-1860</u> (New York: Harper Torchbooks, 1962).
- Birkhimer, William E., <u>Historical Sketch of the</u> Organization, Administration, Material and Tactics of <u>the Artillery, United States Army</u> (Washington, D.C.: James J. Chapman, 1884).

- Bloch, Jean de, <u>The Future of War</u>, et. al. (Boston: Ginn, 1899).
- Blumerson, Martin and Stokesly, James L., <u>Masters of the Art</u> of Command (Boston: Houghton Mifflin, 1975).
- Bond, Major P.S. and McDonough, Major M.J., <u>Technique of</u> <u>Modern Tactics A Study of Troop Leading</u>, et. al. (3rd ed., Menasha: George Banto, 1916).
- Bonie, Lieutenant-Colonel, Koehler, Major and Davis, Lieutenant-Colonel George B., <u>Cavalry Studies from Two</u> Wars (Kansas City: Hudson-Kimberly, 1896).
- Boynton, Captain Edward C., <u>History of West Point</u>, et. al. (New York: D. van Nostrand, 1863).

Brereton, J.M., The Horse In War (New York: Arco, 1976).

- Brialmont, Lieutenant-General, <u>Combat Tactics of Cavalry</u> (Fort Leavenworth: United States Infantry and Cavalry School, 1893).
- Browning, Oscar, <u>Wars of the Century and the Development of</u> Military Science (Toronto: Linsott, 1903).
- Browing, Roberts, <u>Two If By Sea the Development of American</u> Coastal Defense Policy (Westport: Greenwood, 1983).

Bruce, Robert, Lincoln and the Tools of War (Indianapolis: Bobbs-Merrill, 1956).

- _____
- Caemmerer, Lieutenant-General Van, <u>The Development of</u> <u>Strategical Science During the 19th Century</u> (London: Hugh Rees, 1905).

Caldwell, Colonel L.E., Small Wars Their Principles and

Practice (3rd ed.; London: Harrison and Sons, 1906).

- Calhoun, Daniel H., <u>Professional Lives In America Structure</u> and Aspiration 1750-1850 (Cambridge: Harvard University Press, 1965).
- Calthorpe, Lieutenant-Colonel Sommerset J., <u>Cardigan's</u> Crimea (New York: Athereum, 1980).
- Carman, W.Y., <u>A History of Firearms from Earliest Times to</u> <u>1914</u> (London: Routlege & Keegan Paul, 1963).
- Carter, Major-General William Harding, <u>The American Army</u> (Indianapolis: Bobbs-Merrill, 1915).
- Carter, Captain William Harding, <u>Horses, Saddles and Bridle</u> (Leavenworth: Ketcheson & Reeves, 1895).
- Catton, Bruce, <u>America Goes to War</u> (Middleton: Wesleyan University Press, 1958).
- Catton, Bruce, <u>Mr. Lincoln's Army</u> (Garden City: Doubleday, 1951).
- Catton, Bruce, <u>Reflections on the Civil War</u> (Garden City: Doubleday, 1981).
- Challenger, Richard D., <u>The French Theory of the Nation in</u> <u>Arms 1866-1939</u> (New York: Columbia University Press, 1955).
- Chandler, David G., <u>The Campaigns of Napoleon</u> (New York: Macmillan, 1966).
- Chesney, Colonel Charles Cornwallis, <u>Essays in Military</u> <u>Biography</u> (New York: Henry Holt, 1874).

- Chesney, Lieutenant-Colonel Charles C., <u>Waterloo Lectures A</u> <u>Study of the Campaign of 1815</u> (2nd ed.; London: Longmans, Green, 1869).
- Chidsey, Donald Barr, <u>The War With Mexico</u> (New York: Crown, 1968).
- Childers, Erskine, <u>War and the Arme Blanche</u> (London: Edward Arnold, 1910).
- Childs, John, <u>Armies and Warfare in Europe, 1648-1789</u> (New York: Holmes and Meir, 1982).
- Chittenden, Captain Hiram Martin, <u>History of Early Steamboat</u> <u>Navigation on the Missouri</u>, et. al. (reprint; Minneapolis: Ross & Haines, 1962 (1903)).
- Clarke, Dwight C., <u>Stephen Watts Kearny</u> (Norman: University of Oklahoma, 1961).
- Cleves, Freeman, <u>Rock of Chickemauga, the Life of General</u> <u>George H. Thomas</u> (Norman: University of Oklahoma Press, 1948).
- Coggins, Jack, <u>Arms and Equipment of the Civil War</u> (Garden City: Doubleday, 1962).
- Coit, Margaret C., John C. Calhoun American Portrait (Boston: Houghton Mifflin, 1950).
- Coles, Harry L., <u>The War of 1812</u> (Chicago: University of Chicago Press, 1965).
- Colin, Commandant J., France and the Next War A French View of Modern War (London: Holder & Staughton, 1914).

- Colby, Captain Elbridge, <u>American Militarism</u> (Washington, D.C.: Society of American Military Engineers, 1934).
- Colby, Elbridge, <u>Masters of Mobile Warfare</u> (Princeton: Princeton University Press, 1943).
- Cottesloe, Baron (T.F. Freemantle), The Book of the Rifle (London: Longmans, Green, 1901).
- Cowper, H.S., <u>The Art of Attack</u>, being a Study in the <u>Development of Weapons and Appliances of Offense</u>, et. al. (Winston: W. Holmes, 1906).
- Craig, Gordon, <u>The Politics of the Prussian Army 1640-1945</u> (New York: Oxford University Press, 1964).
- Cress, Lawrence Delbert, <u>Citizens in Arms the Army and the</u> <u>Militia in American Society to the War of 1812</u> (Chapel

Hill: University of North Carolina Press, 1982).

- Cresson, W.P., <u>James Monroe</u> (Chapel Hill: University of North Carolina Press, 1946).
- Crevald, Martin van, <u>Fighting Power German and U.S. Army</u> Performance, 1939-1945 (Westport: Greenwood, 1982).
- Crevald, Martin van, <u>Supplying War Logistics from</u> <u>Wallenstein to Patton</u> (London: Cambridge University Press, 1977).
- Cunliffe, Marcus, <u>Soldiers & Civilians The Martial Spirit in</u> America 1775-1868 (Boston: Little, Brown, 1968).
- Curtis, James C., <u>Andrew Jackson and the Search for</u> <u>Vindication</u> (Boston: Little, Brown, 1976).

- Davis, Carl C., <u>Arming the Union Small Arms in the Civil War</u> (Port Washington: Kennucat, 1973).
- Davidson, Captain Homer K., <u>Black Jack Davidson A Cavalry</u> <u>Commander on the Western Frontier</u>, et. al. (Glendale: Arthur H. Clarke, 1974).
- Davies, General Henry E., <u>General Sheridan</u> (New York: D. Appleton, 1895).
- Delbuck, Hans, <u>History of the Art of War within the</u> <u>Framework of Political History</u> (reprint; 3 vols., Westport: Greenwood, 1975).
- DePeyster, John Watts, <u>Personal and Military History of</u> <u>Philip Kearny</u>, et. al. (New York: Rice and Gage, 1869).
- DeVoto, Bernard, <u>Across the Wide Missouri</u> (Boston: Houghton Mifflin, 1947).
- DeVoto, Bernard, <u>The Year of Decision 1846</u> (Boston: Little, Brown, 1943).
- Dixon, Norman, <u>On the Psychology of Military Incompetence</u> (New York: Barie Books, 1976).
- Dodge, Colonel Theodore Ayrault, <u>Gustavaus Adolphus A</u> <u>History of the Art of War from its Revival after the</u> <u>Middle Ages to the End of the Spanish Succession</u>, et. al. (2 vols.; Boston: Houghton Mifflin, 1895).
- Donald, David, <u>Lincoln Reconsidered</u> (New York: Alfred A. Knopf, 1956).

- Donald, David, <u>Why the North Won the Civil War</u> (s.l.: Louisiana State University Press, 1960).
- Downey, Fairfax, <u>Clash of Cavalry the Battle of Brandy</u> Station, June 9, 1863 (New York: David McKay, 1959).
- Downey, Fairfax, <u>Indian Fighting Army</u> (New York: Charles Scribner's, 1941).
- Downey, Fairfax, <u>Indian Fighting Army 1776-1865</u> (Garden City: Doubleday, 1963).
- Duffy, Christopher, <u>Siege Warfare the Fortress in the Early</u> <u>Modern World 1494-1660</u> (London: Routledge & Keegan Paul, 1979).
- Duffus, Robert L., <u>The Santa Fe Trail</u> (New York: Longmans, Green, 1939).
- Duffy, Christopher, <u>The Army of Frederick the Great</u> (New York: Hippocrene, 1974).
- Dufour, Charles L., <u>The Mexican War A Compact History, 1846-</u> 1848 (New York: Hawthorn, 1968).
- Dupuy, Colonel R. Ernest, <u>The Compact History of the United</u> <u>States Army</u> (rev. ed.; New York: Hawthorn, 1961).
- Dupuy, Colonel R. Ernest and Dupuy, Colonel Trevor N., <u>Military Heritage of America</u> (New York: McGraw Hill, 1956).
- Dupuy, Colonel Trevor N., <u>The Evolution of Weapons and</u> Warfare (Indianapolis: Bobbs-Merrill, 1980).
- Dupuy, Colonel T.N., <u>Numbers, Predictions and War: Using</u> History to Evaluate Combat Factors and Predict the

Outcome of Battles (Indianapolis: Bobbs-Merrill, 1979).

- Dyer, Brainard, <u>Zachary Taylor</u> (Baton Rouge: Louisiana State University Press, 1946).
- Eames, Captain Henry E., <u>The Rifle in War</u> (Fort Leavenworth: U.S. Cavalry Association, 1909).
- Edwards, William B., <u>Civil War Guns</u> (Harrisburg: Stackpole, 1962).
- Eliot, George Fielding, <u>Sylvanus Thayer of West Point</u> (New York: Julian Messner, 1959).
- Elliott, Major Charles Winslow, <u>Winfield Scott the Soldier</u> and the Man (New York: Macmillan, 1937).
- Ellis, John, <u>Armies in Revolution</u> (New York: Oxford University Press, 1974).
- Ely, Cecil, <u>"That Disgraceful Affair" the Black Hawk War</u> (New York: W.W. Norton, 1973).
- Emmett, Chris, Fort Union and the Winning of the West (Norman: University of Oklahoma Press, 1965).
- Fleming, Thomas J., <u>West Point the Men and Times of the</u> <u>United States Military Academy</u> (New York: Morrow, 1969).
- Foch, General Ferdinand, <u>The Principles of War</u> (reprint; New York: AMS Press, 1970 (1918)).
- Foertisch, Colonel Herman, <u>The Art of Modern Warfare</u> (New York: Oskar Piest, 1940).

- Foreman, Grant, <u>Advancing the Frontier 1830-1860</u> (Norman: University of Oklahoma Press, 1933).
- Foreman, Grant, <u>Indian Removal the Emigration of the Five</u> <u>Civilized Tribes of Indians</u> (Norman: University of Oklahoma, 1932).
- Foreman, Grant, <u>Pioneer Days in the Early Southwest</u> (Cleveland: Arthur H. Clarke, 1926).
- Forman, Sidney, <u>History of the United States Military</u> Academy (New York: Columbia University Press, 1950).
- Forsyth, Brevet Brigadier-General George A., <u>The Story of</u> the Soldier (New York: D. Appleton, 1900).
- Fortescue, J.W., <u>A History of the British Army</u> (8 vols.; London: Macmillan, 1898-1930).
- Fortescue, J.W., <u>Military History</u> (Cambridge: Cambridge University Press, 1923).
- Francke, Arthur, Fort Mellan 1837-42 A Microcosm of the Second Seminole War (Miami: Banyon, 1977).
- Franklin, John Hope, <u>The Militant South 1800-1861</u> (Cambridge: Harvard University Press, 1956).
- Frazer, Robert W., Forts of the West, et. al. (Norman: University of Oklahoma, 1965).
- Freeman, Douglas Southall, <u>R.E. Lee A Biography</u> (4 vols.; New York: Charles Scribner's, 1934-1935).
- Freytag-Loringhoven, Major-General, Baron, <u>The Power of</u> <u>Personality in War</u> (Harrisburg: Military Service Publishing, 1955).

- Frink, Maurice, Fort Defiance & the Navajos (Boulder: Pruett Press, 1968).
- Fry, Colonel James B., <u>The History and Legal Effect of</u> <u>Brevets in the Armies of Great Britain and the United</u> States (New York: D. van Nostrand, 1877).
- Fry, Colonel James B., <u>Military Miscellanies</u> (New York: Brentono's, 1889).
- Fry, James B., <u>A Sketch of the Adjutant General's Department</u> <u>U.S. Army from 1775 to 1875</u>, et. al. (New York: p.p., 1876).
- Fuller, Claude E., <u>The Breech Loader in the Service 1816-</u> <u>1917</u>, et. al. (Milford: N. Flaydermond, 1965).
- Fuller, Claude E. and Stewart, Richard D., <u>Firearms of the</u> <u>Confederacy</u> (Lawrence: Quartermain, 1944).
- Fuller, Major-General J.F.C., <u>Armament and History</u> (New York: Charles Scribner's, 1945).
- Fuller, Colonel J.F.C., <u>British Light Infantry in the</u> Eighteenth Century (London: Hutchinson, 1925).
- Fuller, J.F.C., <u>The Conduct of War 1789-1961</u> (New Brunswick: Rutgers University Press, 1961).
- Fuller, Major-General J.F.C., <u>Decisive Battles of the U.S.A.</u> (New York: Harper, 1942).
- Fuller, Major-General J.F.C., <u>Grant and Lee A Study in</u> <u>Personality and Generalship</u> (Bloomington: Indiana University Press, 1957).

- Funcken, Cliane and Funcken, Fred, <u>The Napoleonic Wars</u> (2 vols.; London: Ward Lock, 1968).
- Ganoe, Colonel William Addleman, <u>The History of the United</u> <u>States Army</u> (2nd ed.; New York: D. Appleton-Century, 1942).
- Gibbs, Montgomery B., <u>Military Career of Napoleon the Great</u> (Chicago: Werner, 1899).
- Glazer, Michael, <u>Wellington's Peninsular Victories</u> (New York: Macmillan, 1963).
- Gluckman, Major Arcadi, <u>United States Martial Pistols and</u> Revolvers (Buffalo: Otto Ulbrich, 1939).
- Gluckman, Colonel Arcadi, <u>United States Muskets, Rifles and</u> Carbines (Buffalo: Otto Ulbrich, 1948).
- Goerlitz, Walter, <u>History of the German General Staff 1657-</u> 1945 (New York: Frederick A. Praeger, 1953).
- Goetzman, William H., Army Exploration in the American West

1803-1863 (New Haven: Yale University Press, 1986).

- Goltz, Field-Marshall, Baron von der, <u>The Nation in Arms A</u> <u>Treatise on Modern Military Systems and the Conduct of</u> <u>War</u> (London: Hodder and Staughton, 1906).
- Gooch, John, <u>Armies in Europe</u> (London: Routledge & Keegan Paul, 1980).
- Gray, Alonzo, <u>Cavalry Tactics as Illustrated by the War of</u> <u>the REbellion</u>, et. al. (Fort Leavenworth: U.S. Cavalry Association, 1910).

Griffith, Paddy, Forward into Battle Fighting Tactics from Waterloo to Vietnam (Sussex: Antony Bird, 1981).

Hackett, General, Sir John Winthrop, The Profession of Arms (London: Times Publishing, 1962).

- Hafen, LeRoy R., Fort Lorain and the Pagent of the West 1834-1890 (Glendale: Arthur H. Clarke, 1938).
- Hagan, William T., <u>The Sac and Fox Indians</u> (Norman: University of Oklahoma Press, 1958).
- Hall, A.R., <u>Ballistics in the Seventeenth Century</u>, et. al. (Cambridge: Oxford University Press, 1952).
- Hall, Captain Ronald Acott, <u>Studies in Napoleonic Strategy</u> (London: Allen & Cenium, 1918).
- Hamley, Colonel, Sir Edward Bruce, <u>The Operations of War</u> <u>Explained and Illustrated</u> (3rd ed.; Edinburgh: William Blackwood, 1872).
- Hansen, Marcus L., <u>Old Fort Snelling</u> (Iowa City: University of Iowa Press, 1917).
- Hassler, Warren W., <u>With Shield and Sword American Military</u> <u>Affairs Colonial Times to the Present</u> (Ames: Iowa State University Press, 1982).
- Hattaway, Herman and Jones, Archer, <u>How the North Won A</u> <u>Military History of the Civil War</u> (Urbana: University of Illinois Press, 1983).
- Havelock-Allan, Major, Sir Henry M., <u>Three Main Military</u> <u>Questions of the Day</u>, et. al. (London: Longmans, Green, 1867).

- Liddell Hart, B.H., <u>The Decisive Wars of History A Study in</u> Strategy (Boston: Little, Brown, 1929).
- Liddell Hart, B.H., <u>The Ghost of Napoleon</u> (London: Longmans, Green, 1933).
- Liddell Hart, B.H., <u>Strategy the Indirect Approach</u> (New York: Frederick A. Praeger, 1954).
- Liddell Hart, Captain B.H., <u>The Remaking of Modern Armies</u> (Boston: Little, Brown, 1928).
- Liddell Hart, B.H., <u>The Revolution in Warfare</u> (New Haven: Yale University Press, 1947).
- Lloyd, Colonel E.M., <u>A Review of the History of Infantry</u> (London: Longmans, Green, 1908).
- Logan, General John A., <u>The Volunteer Soldier of America</u>, et. al. (Chicago: R.S. Peale, 1887).
- Longacre, Edward G., <u>From Union Stars to Top Hat a Biography</u> of the Extraordinary General James Harrison Wilson

(Harrisburg: Stackpole, 1972).

- Longacre, Edward G., <u>Mounted Raids of the Civil War</u> (South Brunswick: A.S. Barnes, 1975).
- Longstreet, Stephen, <u>War Cries on Horseback the Story of the</u> <u>Indian Wars of the Great Plains</u> (Garden City: Doubleday, 1970).
- Lunt, James D., <u>Charge to Glory</u>! (New York: Harcourt, Brace, 1960).

Luvaas, Jay, The Military Legacy of the Civil War the

European Inheritance (Chicago: University of Chicago Press, 1959).

- Mahon, John K., <u>History of the Militia and the National</u> Guard (New York: Macmillan, 1982).
- Mahon, John K., <u>History of the Second Seminole War 1835-1842</u> (Gainesville: University of Florida, 1967).
- Mahon, John K., <u>The War of 1812</u> (Gainesville: University of Florida Press, 1972).
- Maland, David, Europe At War 1600-1650 (Totowa: Roun and Littlefield, 1980).
- Matloff, Maurice, ed., <u>American Military History</u> (Washington, D.C.; U.S. Government Printing Office, 1969).
- Maude, Lieutenant-Colonel F.N., <u>The Evolution of Modern</u> <u>Strategy from the XVIII Century to the Present Time</u> (London: William Cloues, 1905).
- Marquis, Thomas B., <u>Keep the Last Bullet for Yourself the</u> <u>True Story of Custer's Last Stand</u> (New York: Reference Publications, 1976).
- Maude, Captain F.N., <u>Cavalry Versus Infantry</u> (Kansas City: Hudson Kimberly, 1896).
- Maude, Captain F.N., <u>Letters on Tactics and Organization</u>, et. al. (Leavenworth: 1891).
- McElwee, William, <u>The Art of War Waterloo to Mars</u> (Bloomington: Indiana University Press, 1974).

Theory of Military Tactics in Eighteenth Century France (New York: Columbia University Press, 1957).

- Reilly, Robert M., <u>United States Military Small Arms 1816-</u> <u>1865 the Federal Firearms of the Civil War</u> (n.p.: Eagle, 1970).
- Rhodes, Charles B., <u>History of the Cavalry of the ARmy of</u> <u>the Potomac</u>, et. al. (Kansas City: Hudson-Kimberly, 1900).
- Rickey, Don, Jr., Forty Miles a Day on Beans and Hay the Enlisted Soldier Fighting the Indian Wars (Norman: University of Oklahoma Press, 1963).
- Rippy, James Fred, <u>Joel R. Poinsett, Versatile American</u> (Durham: Duke University Press, 1935).
- Riskin, Erna, <u>Quartermaster Support of the Army a History of</u> <u>the Corps 1775-1939</u> (Washington, D.C.: Quartermaster General, 1962).
- Rister, Carl Coke, <u>The Southwestern Frontier 1865-1881</u> (Cleveland: Arthur H. Clarke, 1928).
- Roberts, Michael, <u>The Military Revolution 1560-1660</u> (Belfast: Marjory Boyd, 1956).
- Robinson, Willard, <u>American Forts: Architectural Form and</u> <u>Function</u> (Champaign: University of Illinois Press, 1977).
- Rodenbaugh, Theo F. and Haskin, William L., <u>The Army of the</u> <u>United States</u> (New York: Maynard, Merrill, 1896).

- Ropp, Theodore, <u>War in the Modern Era</u> (Durham: Duke University Press, 1959).
- Rosebush, Waldo E., Frontier Steel the Men and their Weapons (Appleton: C.C. Nelson, 1958).
- Rosinski, Herbert, <u>The German Army</u> (New York: Harcourt, Brace, 1940).
- Ross, Steven, From Flintlock to Rifle Infantry Tactics, <u>1740-1866</u> (London: Associated University Press, 1979). Rothenberg, Gunther E., The Army of Francis Joseph (West

Lafayette: Purdue University Press, 1976).

- Rothenberg, Gunther E., <u>The Art of War in the Age of</u> <u>Napoleon</u> (Bloomington: Indiana University Press, 1980).
- Satz, Ronald N. <u>American Indian Policy in the Jacksonian Era</u> (Lincoln: University of Nebraska press, 1975).
- Schlesinger, Arthur M., Jr., <u>The Age of Jackson</u> (Boston: Little, Brown, 1945).
- Schmidt, Major-General Carl von, <u>Instructions for the</u> <u>Training, Employment and Leading of Cavalry</u> (reprint; Westport: Greenwood, 1968 (1881)).
- Settle, Raymond W., <u>The March of the Mounted Riflemen</u>, et. al. (Glendale: Arthur H. Clarke, 1940).
- Settle, Raymond W. and Settle, Mary Lind, <u>War Drums and</u> <u>Wagon Wheels the Story of Russell, Meyers and Weddell</u> (Lincoln: University of Nebraska, 1966).

Shannon, Fred Albert, The Organization and Administration of

the Union Army 1861-1865 (Cleveland: Arthur H. Clarke, 1928).

- Shaw, G.C., <u>Supply In Modern War</u> (London: Faber & Faber, 1938).
- Shayne, Philip B., <u>The Rifle in America</u> (New York: William Morrow, 1938).
- Showalter, Dennis E., <u>Railroads and Rifles Soldiers</u>, <u>Technology</u>, and the Unification of Germany (Hamden: Archon, 1975).
- Silver, James W., <u>Edmund Pendleton Gaines Frontier General</u> (Baton Rouge: Louisiana State University Press, 1949).
- Simpson, Hodel B., <u>Frontier Forts of Texas</u> (Waco: Texian, 1966).
- Singletary, Otis A., <u>The Mexican War</u> (Chicago: University of Chicago, 1960).
- Smith, Major-General Francis H., <u>History of the Virginia</u> <u>Military Institute</u>, et. al. (Lynchburg: J.P. Bell, 1912).
- Smith, Louis, <u>American Democracy and Military Power</u> (Chicago: University of Chicago Press, 1951).

Smith, Justin H., <u>The War with Mexico</u> (2 vols.; New York: Macmillan, 1919).

Smith, Brigadier-General Dale O., <u>U.S. Military Doctrine A</u> <u>Study and Appraisal</u> (New York: Buell, Sloan and Pierce, 1955).

Smith, Merritt Roe, <u>Harpers Ferry Armory and the New</u> <u>Technology the Challenge of Change</u> (Ithaca: Cornell University Press, 1977).

Spaulding, Colonel Oliver Lyman, <u>The United States Army in</u> War and Peace (New York: G.P. Putnam's, 1937).

Starr, Stephen Z., <u>The Union Cavalry in the Civil War</u> (2 vols. to date; Baton Rouge: Louisiana State University Press, 1971).

Steckmesser, Kent L., <u>The Westward Movement A Short History</u> (New York: McGraw-Hill, 1969).

Steffen, Randy, <u>The Horse Soldier 1776-1943 the United</u> <u>States Cavalryman his Uniforms, Arms, Accouterments,</u> <u>and Equipments</u> (4 vols.; Norman: University of Oklahoma, 1977).

Stevens, Francke E., <u>The Black Hawk War Including a Review</u> of Black Hawk's Life (Chicago: p.p., 1903).

Stuart, Charles Beebe, <u>Lives and Works of Civil and Military</u> <u>Engineers of America</u> (New York: D. van Nostrand, 1871).

- Stuart, Reginald C., <u>War and American Thought from the</u> <u>Revolution to the Monroe Doctrine</u> (Kent: Kent State University, 1982).
- Strachan, Hew, <u>European Armies and the Conduct of War</u> (London: George Allen & Urwin, 1983).
- Tebbel, John and Jennison, Keith, <u>The American Indian Wars</u> (New York: Harper, 1960).

Teither, Gerke, <u>The Genesis of the Professional Officers</u>' Corps (Beverly Hills: Sage, 1977).

Todd, Richard P., <u>American Military Equipment 1851-1872</u> (New York: Charles Scribners, 1980).

Turner, Frederick Jackson, The Frontier in American History

(New York: Henry Holt, 1920).

- Tuttle, Richard Charles, <u>History of the Border Wars of Two</u> Centuries, et. al. (Chicago: C.A. Wall, 1874).
- United States, <u>The Centennial of the United States Military</u> <u>Academy at West Point, New York</u> (2 vols.; Washington, D.C.; Government Printing Office, 1904).
- United States, <u>The Sesquicentennial of the United States</u> <u>Military Academy</u>, et. al. (West Point: Bacur, James, Hausauer & Savage, 1952).
- Upton, Emory, <u>The Armies of Asia and Europe: Embracing</u> <u>Official Reports of the Armies of Japan, China, India,</u> <u>Russian, Italy, Prussia</u>, et. al. (New York: D. Appleton, 1878).
- Upton, Emory, <u>Military Policy of the United States</u> (Washington, D.C.: Government Printing Office, 1917).
- Utley, Robert M., <u>Frontiersmen in Blue the United States</u> <u>Army and the Indian 1848-1868</u> (New York: Macmillan, 1967).
- Vagts, Alfred, <u>A History of Militarism Romance and Realities</u> of a <u>Profession</u> (New York: W.W. Norton, 1937).

- Van Deusen, Glyndon G., <u>The Jacksonian Era, 1828-1848</u> (New York: Harper Torchbooks, 1963).
- Vandiver, Frank E., <u>Plowshares into Swords Josiah Gorgas and</u> <u>Confederate Ordnance</u> (Austin: University of Texas, 1952).
- Vale, Malcolm, <u>War and Chivalry</u>, et. al. (Athens: University of Georgia Press, 1981).
- Van Every, Dale, <u>Disinherited: The Lost Birthright of the</u> <u>American Indian</u> (New York: Morrow, 1966).
- Van Every, Dale, <u>The Final Challenge the American Frontier</u> <u>1804-1845</u> (New York: Morrow, 1964).
- Vaughan, J.W., <u>Indian Fights New Facts on Seven Encounters</u> (Norman: University of Oklahoma, 1966).
- Vestal, Stanley, <u>The Old Santa Fe Trail</u> (Boston: Houghton Mifflin, 1939).
- Viollet-Le-Duc, Eugene E., <u>Military Architecture</u> (3rd ed.; Oxford: James Parker, 1907).
- Wallace, Anthony F.C., <u>Prelude to Disaster: The Course of</u> <u>Indian-White Relations which led to the Black Hawk War</u> <u>of 1812</u> (Springfield: Illinois State Historical Library, 1970).
- Wallace Edward S., <u>The Great Reconnaissance Soldiers</u>, <u>Artists and Scientists on the Frontier</u>, 1848-1861 (Boston: Little, Brown, 1955).
- Wartenburg, Colonel, Count Yorck von, <u>Napoleon as a General</u> (2 vols.; s.l: Wolseley, 1898).

- Walton, George, <u>Sentinel of the Plains Fort Leavenworth and</u> <u>the American West</u> (Englewood Cliffs: Prentice-Hall, 1973).
- Ward, John William, <u>Andrew Jackson, Symbol for an Age</u> (New York: Oxford University Press, 1966).
- Waugh, E.D., <u>West Point</u>, et. al. (New York: Macmillan, 1944).
- Webb, Walter, Prescott, <u>The Texas Rangers A Century of</u> Frontier Defense (Boston: Houghton Mifflin, 1935).
- Weigley, Russel, <u>History of the United States Army</u> (New York: Macmillan, 1967).
- Weigley, Russel F., <u>Towards an American Army Military Thought</u> <u>from Washington to Marshall</u> (New York: Columbia University Press, 1962).
- Wesly, Edgar Bruce, <u>Guarding the Frontier A Study of</u> <u>Frontier Defense from 1815 to 1825</u> (St. Paul: University of Minnesota, 1935).
- Wheeler, J.B., <u>A Course of Instruction in the Elements of</u> <u>the Art and Science of War</u>, et. al. (New York: D. van Nostrand, 1878).
- White, Howard, <u>Executive Influence in Determining Military</u> <u>Policy in the United States</u> (Urbana: University of Illinois, 1925).
- White, Leonard D., <u>The Jacksonians A Study in Administrative</u> History 1829-1861 (New York: Macmillan, 1954).

- White, Leonard D., <u>The Jeffersonians A Study in</u> <u>Administrative History 1801-1829</u> (New York: Macmillan, 1951).
- Wilcox, General Cadmus M., <u>History of the Mexican War</u> (Washington, D.C.: Church News, 1892).
- Wilkinson, Spenser, <u>The Brains of an Army a Popular Account</u> <u>of the German General Staff</u> (2nd ed.; Westminster: Archibald Lenstatte, 1895).
- Wilkinson, Spenser, <u>The French Army Before Napoleon</u> (Oxford: Clarendon, 1915).
- Williams, Kenneth P., <u>Lincoln Finds a General A Military</u> <u>Study of the Civil War</u> (5 vols.; New York: Macmillan, 1964).
- Williams, T. Harry, <u>The History of American Wars from 1745</u> to 1918 (New York: Alfred A. Knopf, 1981).
- Williams, T. Harry, <u>The Selected Essays of T. Harry Williams</u> (Baton Rouge: Louisiana State University Press, 1983).
- Wilste, Charles M., John C. Calhoun Nationalist, 1782-1828 (Indianapolis: Bobbs-Merrill, 1944).
- Wilste, Charles M., John C. Calhoun, Nullifer, 1829-1839 (Indianapolis: Bobbs-Merrill, 1949).
- Wintringham, Tom, <u>Weapons and Tactics</u> (London: Faber and Faber, 1943).
- Wood, General, Sir Evelyn, <u>Achievements of Cavalry</u> (London: George Bell, 1897).

Wood, General, Sir Evelyn, <u>Cavalry in the Waterloo Campaign</u> (Boston: Roberts, 1896).

Woodford, Frank B., <u>Lewis Cass the last Jeffersonian</u> (New Brunswick: Rutgers University Press, 1950).

Woods, Major-General Leonard, <u>Our Military History its Facts</u> <u>and Fallacies</u> (Chicago: Reilly & Bretton, 1916).

The development of military professionalism was by no means a complete success. Certainly, the vigorous and frequently virulent politicking of even senior officers in the public domain, for position within the Army was not conducive to the achievement of political isolation of the military as required by the tenets of professionalism. In the 1820s and 1830s professionalism by-and-large was practiced by Army officers in their official capacity as soldiers but not in their own private sphere. Slowly, nonetheless, as more West Pointers entered the officer corps, professionalism grew substantially in dominating, however imperfectly, the perceptions and beliefs of the Army's leaders. Moreover, a strong, administratively centralized Army emerged, which unlike its pre-War of 1812 predecessor, was fully capable of warding off the attacks of its many critics and riding out fluctuations in popular opinion toward the professional military establishment. The Army which emerged in the years 1815-1821 would not alter its essential mission, its professionalism or its doctrine until late in the Civil War. It remained until then, a modern, progressive military service, the embodiment of the French-Austrian school of war.

CHAPTER II

THE FRENCH-AUSTRIAN SCHOOL OF WAR: STRATEGY, TACTICS AND CAVALRY WARFARE

Part I

Two great war-fighting systems emerged from the wake of the Napoleonic Wars. For the preponderance of the Nineteenth Century, military science in Europe and the United States was dominated by the tenets of the French-Austrian school of war.l Within its ranks could be numbered such luminaries of the new science of strategy as Archduke Charles of Austria, Colonel Henry Halleck of the United States and Colonel Patrick MacDougall of Great Britain. Its grandmaster was Baron Antoine Henri de Jomini of Switzerland and France, whose clear, precise and traditionally-grounded writings served as the foundation of the nascent concepts of military professionalism, science and education on both sides of the Atlantic Ocean.² The other school of strategy was that of Prussia, and was led by General Karl von Clausewitz, whose writings would only begin to have influence on the trans-Atlantic military community after France's crushing defeat in 1870. In the Antebellum era, Clausewitz was known to some American officers (his seminal treatise, On War, is listed in Halleck's bibliography to Elements of Military Art and Science for example), but generally was not

influential since the Prussian's writings constituted such a radical departure from the orthodox military tradition.³

The French-Austrian school of strategy constituted the conservative military reaction to the excesses of the French Revolutionary and Napoleonic Wars. It embodied the conservative reaction against the legacy of the French Revolution as manifested by the Congress of Vienna in 1815. Fundamentally, as the keystone of the French-Austrian school of war, Jomini and his followers concluded that the Napoleonic Wars were an historical fluke, a brief retreat into the ideologically-motivated style of the earlier Thirty Years War. They advocated that the Eighteenth Century limited-war tradition should be restored so that wars would once again be limited in purpose and scope. Essentially, the French-Austrian school failed to come to grips with the militant nationalism, the development of citizen armies, the importance of ideology and the increasing importance of economics and technology in determining the outcome of armed hostili-These innovative aspects of the French Revolutionary ties. and Napoleonic Wars were not comprehensible to traditionalists like Jomini, who expected the profession of arms to resume its function as an increasingly scientific and yet deeply heroic and aristocratic discipline.

As a second fundamental conclusion, future wars would not assume the colossal scale of the Napoleonic Wars. Army size would shrink to the proper size of fifty to two hundred

thousand men. Such small armies would accommodate fully the needs of professional military services with only limited requirements for reserve forces. Such numbers reflected the optimum size of a military force which could be commanded and directed with orthodox principles of command and leadership doctrine. A warrior commander could, with traditional line-of-sight techniques and without the necessity (or nuisance) of a large staff and more complex, sub-army formations such as divisions or corps, direct no more than fifty or so thousand men. Essentially, the warfighting system of the Antebellum American Army was that of the French-Austrian school. In turn, the French-Austrian school, in the main, was a slightly updated version of Eighteenth Century limited war. The goal of limited warfare was to minimize, to the greatest possible extent, the cost to society of war by insulating it from its worst and most destructive effects. This same goal motivated the professional soldiers of the post-Napoleonic era, in their quest for a cleaner, more scientific warfare.⁴

Strategically, warfare was, from the Seventeenth Century on, essentially a function of siegecraft until the French Revolutionary and Napoleonic Wars. None of the uncertainties or hazards of pitched battle in unfamiliar enemy country were present in a well executed siege. The geometrically precise techniques of siegecraft were certain and highly effective. Armies on the move, on the other hand, were subject to an iron law of declining effectiveness, as wear and tear increased, as the discipline of the parade ground flagged and as desertion increased. While siegecraft could, if bungled, result in an army penned between a fortress and an adversary's field forces, it was far less risky than open battle.

Still another brick in the foundation of limited war lay in the tactical movement of armies. Due to the pronounced limitations of Eighteenth Century drill systems, one army could not maneuver with sufficient dispatch or celerity to force a second into battle or even surprise it. Pursuit of a retreating foe was not feasible, save in the extremely rare case of a rout. The danger was that the pursuing army would be drawn out and extended over many miles, thus providing a very tempting target to the enemy.⁵

Army mobility was further imperiled by the paucity of good roads and navigable rivers, a problem which only began to be solved by the close of the Nineteenth Century. Maps were in short supply and of exceeding poor quality. Principles and techniques of army direction were those of line-of-sight command; the warrior commander was, due to the primitive quality of signal communications and the absence of staffs, personally required to lead his men into combat. Arms technology placed limitations on the nature of war. The flintlock musket and bayonet combination, mandated the use of highly trained and disciplined soldiers; the close order nature of battle in these years, compelled by the limited range of the musket, resulted in the frightfully high average casualty rate of between thirty and forty percent per battle. The need for highly-disciplined, veteran (most men were in their mid-thirties) soldiers led commanders to place a premium on experience over youth, proficiency over agility and strength and discipline over innovation.⁶ The combination of all of these varied factors, in conjunction with the limited financial resources of agrarian, pre-industrial states and the scarcity of all kinds of military resources, established a strong inclination against the free expenditure of manpower in battle.⁷

The French-Austrian school of war, however, did not simply revive Eighteenth Century warfare in total. Instead, they forcibly grafted upon this earlier military doctrine Napoleon's emphasis on the offensive. The defensive character of limited war was thus augmented, if only in spirit, by a new emphasis on the offensive; or as forcibly stated by Jomini:

Battle once resolved upon, be the first to attack; if the defensive is to be avoided in the general conduct of war, it is entirely unreasonable in action. It is a known fact that the offense, besides its tactical advantages, excites the ardor and courage of the men. Thus, when compelled to fight, always advance towards the enemy, unless you are under the cover of impregnable entrenchments, and even then always manage some outlets that will allow you to debouch from them.⁸ The fundamental maxim of grand tactics, according to American military writer Jacob K. Neff, was "to attack the most vulnerable point of the enemy, which conquered, would be the most decisive in terminating the war.⁹ At the same time however, the goal of war remained firmly within the limited war tradition--competitive states resorting to the use of armed force, when other methods had failed, to redress grievances against their neighbors or for limited strategical gain such as acquiring, a valuable port or a desirable treaty concession.¹⁰

The French-Austrian school of strategy therefore fused the defensively centered concept of limited war with Napoleon's penchant, for offensive warfare.¹¹ The real failure of the French-Austrian school of war, in a strictly military sense, was in not understanding how the radical changes in tactics brought about by the French Revolutionary Wars and later exploited by Napoleon with such outstanding success, had in fact washed away much of the bedrock of limited war theory.¹² This failure of comprehension foreshadows the later problem, beginning in the 1840s, of how radical technological change, including armament, could as well change the practice and nature of warfighting.¹³

Contradiction was the hallmark of the French-Austrian school. What thus issued from this marriage of opposites was a system of war in which the attack was everything and in which the frontal assault was hailed as the true test of

an army's martial prowess. At the same time, however, this body of military science, with equal emphasis, counseled the studious avoidance of pitched battle. Combat was to be accepted only when one possessed a decisively superior tactical advantage. Furthermore, while championing the spirit of the offense, what would in time be called the <u>elan</u> <u>vitale</u>, war, in accordance with the tenets of Jominian strategy, was waged for limited political objectives and goals, in the classic Eighteenth Century manner.14

The competitive strategical system was that of Prussia and General Clausewitz. The Prussian school serves to highlight the deficiencies of their competitor's system. Inexplicably, it was one of Europe's most traditional and autocratic states that pioneered a wholly different school of warfighting. As the heirs to the grand legacy of Frederick the Great, the shattering defeat at Jena in 1806 by the upstart French armies was world shattering in its impact on the Prussian high command. It was almost incomprehensible to the senior Prussian army commanders how the ragtag, undisciplined citizen soldiers of France commanded by an ex-corporal could so totally whip the once pre-eminent military power of Europe.15 The basic premise of the revamped Prussian warfighting machine was completely contrary to the French-Austrian brand of military science. Wars were defined as being struggles between not only warring nations, but warring peoples as well. Consequently,

huge conscript armies would be required, dependent upon the availability of well trained, ready reserves; the regular army would therefore not bear the brunt of the war alone but instead would serve as the leader of a collective national effort. Fundamentally, the Prussian concept of war was militantly aggressive; the quaint gentlemanly notion of limited war being shunted aside. In addition, the concept of soldier as robot, as in Frederick's day was forever replaced by a new and radically different emphasis on teamwork. Prussia, became the prototype of the modern nation in arms, with the army on a permanent footing.¹⁶

United States Army warfighting doctrine was completely Jominian in the Antebellum era.¹⁷ Tactical theory, whether artillery, infantry and later, cavalry, were wholely based on standard French manuals, translated into English. Winfield Scott's 1818 and 1836 infantry manuals represented no more than formal ratification of the 1816 and 1833 French works.18

Part II

The classical tradition of mounted warfare constituted a very traditional and aristocratic body of military doctrine, increasingly out-of-place in the post-Napoleonic era of scientific warfare.¹⁹ The cavalry was traditionally regarded as morally superior to all other branches of army service on the ground that it was blessed with inherently

greater endowments of aristocratic virtue, honor and elan than the more plebian infantry or technocratic artillery. The hallmarks of the mounted service were its zeal, its nobility, its richer sense of honor and its superior style and audacity.

The golden or classical age of European cavalry ran from the 1640s to 1815. In the mid-Seventeenth Century, Gustavas Adolphus of Sweden almost singlehandedly resurrected the use of cavalry as an effective tool of war. Prior to the classical age, cavalry had been in a state of severe decline. Its utility as an effective military weapon had withered due to the introduction of vastly improved missile weapons and the revival of the phalanx. Gustavas, through the development of combined arms doctrine, developed a means of redressing the balance of warfare so as to allow for a renewed, if more circumspect, role for mounted troops. Small light-weight cannon (falconets) were introduced in combination with detachments of musketeers to provide direct fire support for the Swedish cavalry. While this technique, due to improvements in artillery, of mixing infantry and cavalry in the same tactical formation, below that of the division was declared taboo by later cavalry theorists, it was nonetheless, a significant break-through in mounted warfare in its day. The key to Swedish cavalry success lay in this effective use of missile fire in disrupting opposing infantry formations prior to launching the horse soldiers on their headlong, and hopefully, decisive charge. The net effect was a dramatic revival of cavalry effectiveness.²⁰

Insofar as the specifics of mounted warfare were concerned, Gustavas made a crucial advance, perhaps the single most significant one prior to the Civil War, in cavalry organization by reworking his horse soldiers into a disciplined and controlled fighting force. In order to maximize their shock potential, Swedish cavalry was reorganized into formal military units, expressly designed to engage the enemy as a tightly disciplined and controlled military force and not as a mob on horseback. To this end, cavalry was, for the first time, deployed in a linear formation of three ranks, replacing the traditional, densely clustered cavalcade assemblage. Tactically, cavalry deployment would, over the next two-hundred-and-fifty years, be largely a matter of gradually reducing mounted formations to double and single rank formations. In regards to armament, Gustavas authored a revival of the arme blanche, or in this case, the saber, as the quintessential calvaryman's weapon, a position that the sword would retain into the 1930s.21

The next great era of cavalry development was initiated by Frederick the Great of Prussia. Inheriting one of Europe's worst mounted services, noted for fat troopers on slow plow horses, Frederick transformed his cavalry into the most effective horse units ever created in the classical

tradition. The key improvement lay in the use of artillery. Specifically, Frederick created the first true horse artillery. Consequently, the Prussian mounted service was provided with its own organic fire support. Horse artillery consisted of small, highly mobile cannon drawn by teams of fleet horses bestride which rode the gunners rather than being transported in a separate wagon. Thus hard-moving mounted units, for the first time, were assured of having ready artillery support capable of marching their own high This system represented a further rate of movement. enhancement of the crucial principle of combined arms; tactically, the horse artillery served to pulverize opposing infantry formations so as to facilitate an effective cavalry attack.²²

Frederick's cavalry attained a level of training and organization never achieved before or since by classical European mounted units. Due to the efforts of the first military veterinary service and the first army breeding farms, the Prussian cavalry was provided with excellent horses. Tactically, this advantage translated into an ability of Prussian horse units to charge exclusively at the gallop, over unprecedented distances of up to eight-hundred yards. Such breakneck speed allowed the Prussian mounted troops to reach opposing infantry and artillery before a second volley could be discharged against them. The trend toward placing primary emphasis on the <u>arme blanche</u> as the

cavalry's weapon, was continued by Frederick; pistols and carbines were therefore relegated to such secondary tasks as reconnaissance and guard duty. To enhance the cavalry's shock effect, Frederick popularized the trend toward outfitting the largest percentage of his troopers as heavy cavalry or cuirassiers, so named due to their distinctive It was in this period that the tendency breastplates. toward specialization of cavalry into light, heavy and dragoon units jelled. Tactically, the cavalry, under Frederick, continued to place a key emphasis on the charge; all other duties being demoted to a distinctly secondary role.²³ As the Prussian warrior king himself put it, laying down at once both the fundamental principle of cavalry warfare as well as its most salient and essential myth: "with the cavalry attack it is not the size of the horse but the impetuosity of the charge that turns the scales"....24

The third and last great cavalry innovator was Napoleon of France. The pre-Revolutionary French cavalry was an exceedingly ineffective branch of service even though its schools of mounted warfare were without peer in Eighteenth Century Europe. The actual worth of French cavalry in combat, however, was negligible, due to exceedingly poor horseflesh, deficient organization and mediocre officers. The key changes introduced in the French cavalry by Napoleon lay mainly in organization (for the first time mounted units were concentrated into brigade and even divisional size for-

mations), unit specialization and the strategic application of mounted troopers in intelligence gathering. At no time during the assorted Napoleonic Wars did French mounted units enjoy the benefits of prime quality mounts or even an adequate supply of horses of any kind. Correspondingly, charges had to be made exclusively at the trot rather than the gallop and the employment of cavalry in battle was held to a minimum, so as to keep as many animals fit as possible. Tactically, Napoleon authored no new model of mounted warfare. Rather, as in other tactical aspects of war, Napoleon was content to borrow wholesale from the earlier French Revolutionary generals. Napoleon simply concentrated much more of everything--cavalry, artillery and infantry-in his battles, relying on his personal brilliance at tactical and strategical management.25

The overriding factor in determining the way that cavalry was utilized in battle was the type of armament it carried. The cardinal weakness of mounted troops, was in fact, its extremely ineffectual armament. Granted that all weapons were exceedingly limited in range and lethality (some infantry commanders, for example, considered the musket little better than a fire stick, useful for making a disquieting noise and slightly more so, as a convenient place to attach a bayonet), cavalry armament was even less effective. Three distinctive types of weapons were employed by mounted troops: firearms (pistols and carbines), lances

and swords. In determining weapon effectiveness, writers of this period fused technical performance with perceptions of how such a device stood in relationship to such aristocratic values as an elan and honor. Universally considered distinctly inferior to the lance of saber, firearms were largely confined to secondary tasks such as scouting and picket duty and thus occupied the lowest rung in the hierarchy.²⁶ Basically, "the pistol can only be considered as a weapon of necessity," according to Count von Bismark of the Prussian cavalry, for "its fire is uncertain, short, and seldom efficacious."²⁷ As for the smoothbore carbine or musketoon, it was "an important weapon for the attack of the skirmishers in extended line," but otherwise not a useful cavalry weapon.²⁸ Only the lowly, jack-of-all-trades dragoons were customarily equipped with the carbine and in turn expected to fight, in a fashion, while dismounted. The true cavalryman, however, had little, if any, affection for this weapon and would have fully concurred with Jomini when he wrote:

I do not know what the carbine is good for; since a body armed with it must halt if they wish to fire with any accuracy, and they are then in a favorable condition for the enemy to attack. There are few marksmen who can with any accuracy fire a musket while on horseback and in rapid motion.²⁹

This opposition to firearms was rooted in cavalry history and experience. Gustavus's revival of the <u>arme</u> <u>blanche</u> was done precisely because of the pronounced

inaccuracy and lack of range of the firearms of his day. The horse pistol was a true monster of a weapon. Virtually a miniature cannon, it weighted up to six pounds (about the same as a modern infantry rifle), had a hellish kick to it when it indeed actually discharged and its effective range was less than fifteen yards. The butt of the horse pistol was therefore usually bulbous in shape and heavily weighted so that it could easily be wielded as a club for the purpose of bashing an adversary's skull. Otherwise, one literally had to have the barrel touching one's opponent in order to insure registering a kill when discharging this gun. Furthermore, attempting to fire a pistol accurately while sitting astride a moving horse at the trot, let alone at the gallop, while simultaneously attempting to stay in formation bordered on the impossible. Trying the same stunt with a musketoon simply lay beyond the province of most mortals. As for the effective range of the smoothbore carbine it was at best no more than seventy-five yards. Since both species of firearms were flintlocks, with an exposed primer for the ignition powder for the primary charge inside the weapon, connected by a touchhole, they could never be employed in adverse weather. Still another shortcoming was the ever present danger that a poorly loaded gun, or one with an inferior grade of powder could easily blow up.30 This lack of firepower of traditionally armed cavalry produced, out of experience, the following maxim of war, as stated by

Lieutenant-Colonel George T. Denison of the Canadian Army, that cavalry "has no fire, and therefore is not suitable for defense, and can only resist an attack by making an anticipatory onset."³¹ Gustavus's technique of interspersing musketeers among his mounted squadrons or Frederick's development of horse artillery were no more than partial solutions to this pressing lack of firepower or mounted units. Thus, horse soldiers were compelled to rely largely on edged weapons, best suited for use in the charge.

An alternative, and far more noble, cavalry weapon was the highly controversial lance, which reappeared in Western Europe in the middle of the Eighteenth Century. Its immediate origin lay with the Asiatic, semi-nomadic tribesmen of the Polish and Russian steppes. Made of hardwood, preferably oak or ash, it featured a sharpened metal tip and frequently as well, metal sheathing for the forward third of its length so as to prevent it from being hacked off by a sword. Such weapons were invariably adorned with the colorful regimental pennant. Precisely due to the lance's superior length and its supposedly greater fear-generation capacity than the saber, more than a few cavalry commanders preferred to send their lancers in first against the enemy line, followed by the heavy cavalry. This greater psychological terror of the lance was a result of the "apprehension of being run through ((which)) has a powerful effect upon a man."32 But only a few zealots, at any given time,

ever believed one could actually fight a cavalry melee with lances against sabers and have the former prevail. The lance was simply too clumsy and too unwieldy for close-in, mounted horse-to-horse fighting.³³

Specifically, "a lance is useless in a melee", according to cavalry expert Captain L.E. Nolan of the British Army, "the moment the lancer pulls up and impulsive power is stopped, the instant the power of the weapon is gone.³⁴ The lance was a wholly offensive weapon according to Bismark, "only applicable to the attack and the charge."³⁵ A major disadvantage of the lance was that it took far more time than the customary two years of basic cavalry instruction to train a trooper in its use. "This is a most efficient weapon when used by a thoroughly trained man," cautioned Bismark, "but in the hands of new levies it is perfectly worthless."³⁶ The lance enjoyed fits and spurts of enthusiasm by rather fickle cavalry leaders. In general, it was not terribly effective; its limitations virtually outweighed, in practical terms, its alleged frightfulness. Yet it possessed a strong visceral appeal to the aristocratically minded professional cavalry officer which transcended such mundane issues as tactical effectiveness.³⁷

The premier cavalry weapon was of course the <u>arme</u> <u>blanche</u>: The saber or sword. In order to master this deceptively simple weapon, some nine months of intensive practice was devoted to learning the innumerable intricacies of the saber dance or drill. To the popular mind, fancy uniforms, mighty steeds and the flashing glint of cold steel constituted the images of what cavalry should be. To extremely conservative cavalry commanders of the Eighteenth and Nineteenth Centuries, the saber was without peer; the pistol and the carbine second-rate interlopers of limited utility. Such perspective, which at times bordered on the mystical, did in fact make perfectly good sense in an era of exceptionally short range muskets and highly exposed, tightly packed infantry formations; an age in which the cavalry still had a fair chance of succeeding in its role as shock.³⁸

Even in the Eighteenth Century, the saber was held to be more useful for the infliction of psychological rather than physical injury, but the droit and effortless motion of the swordsman on horseback is far more the stuff of legend than of historical reality. Such feats were perfectly possible if one's target were meekly standing still, one's mount not unduly active and one's weapon indeed had an edge on it. Such combination of fortuitous circumstances was all but unheard of in the customary melee or in cavalry versus The horse provided a very unstable infantry engagements. platform; the trooper in battle was in a constant state of motion as were his mount and his adversaries. A goodly portion of the saber dance was directed to training the would-be trooper how to fight in the environment of several

different but interrelated planes of space with geometrically precise patterns of sword play in the course of the very jumbled and exceedingly disorienting cavalry melee. Rarely did a trooper have more than a few opportunities for a head-on clear shot. Rather, the norm were glancing blows which rarely proved fatal or even disabling. The traditional heavy cavalry garb afforded ample protection against the saber, further diminishing its effectiveness. Moreover, it was virtually impossible to maintain a truly sharp edge on a saber while in the field. And it was deemed a breach of the rules of war to employ a grinder to give a sharp edge to a sword.

Despite the clear ineffectiveness of the saber, cavalry men remained, in effect, spiritually wedded to the arme Even the later introduction of revolvers and blanche. breechloading, magazine carbines failed to shake most cavalry leaders in their faith in the deadliness of cold steel. The mystical devotion to the saber long after Samuel Colt had manufactured his first cap and ball revolver had little if anything to do with a carefully reasoned and rationally based evaluation of the comparative merits and demerits of each category of cavalry weapons and the corresponding tactics that would best exploit their particular characteristics. Rather, from the mid-Seventeenth Century on, the cavalry branch of service came to be dominated by a very aristocratic brand of officer, self-

cloistered as it were from the disagreeable changes in the technology of war, beginning with the introduction of the flintlock musket and running through the more deadly by-products of the Industrial Revolution. This overwhelming commitment to tradition regardless of military and social change was the hallmark of the blueblooded European and American cavalry officer.³⁹

The types of cavalry armament described above, engendered the development of specialized mounted formations tailored so as to enhance either a particular weapon or a specific tactical role. What were in effect the equivalent of today's main battle tank were the armored cuirassiers or heavy cavalry. Out of necessity, as well as to enhance their shock effect, the cuirassiers rode the largest and heaviest horses. In the years immediately preceding the Civil War, considerable debate raged among cavalry experts as to the merits and utility of the cuirassiers. The crux of this issue was whether the advances in weaponry in the 1850s, in particular the Minnie bullet rifle, would so shift the balance of tactics in favor of the infantry as to liquidate the shock function of heavy cavalry altogether. This controversy was the leading issue with cavalrymen on both sides of the Atlantic as to the future character of their branch of service. The minority view was propounded by, in the main, light cavalry officers such as Captain

Nolan, who rather caustically dismissed the worth of heavy cavalry when he wrote:

Composed of large men in defensive armor, mounted on heavy, powerful horses are held in hand for a decisive charge on the day of battle, and their horses are so deficient in speed and endurance, being so overweighted that they require light horse to follow up the enemy they had beaten.⁴⁰

The scantiness of actual battlefield experience as to the deadliness of the weapons served to undercut the credibility of the position of the light cavalrymen. Moreover, the considerable hold of tradition on cavalry doctrine further hindered any effort at modernizing mounted warfare. J. Roemer, of the Dutch cavalry, and a passionate proponent of the <u>cuirassiers</u> as the elite of the mounted service, rejected the minority's position as unsound:

...substituting fervid inclination for cool judgment, they have concluded that henceforth there is need but for that one kind of cavalry, and the one in whose welfare they are particularly interested.41

The dragoons were proper members of the cavalry fraternity, albeit of distinctly lower military status. While trained to fight as skirmishers when dismounted, the signifying characteristic of the dragoon was that he could, in a pinch, deliver a charge, in lieu of heavy cavalry. In addition, the dragoons could be gainfully employed for reconnoitering and camp security duties. Historically, dragoons, named for their early hand armament or dragons, first appeared in the English and French armies in the

Fifteenth Century as mounted infantry. Such units were originally created to provide a more versatile and cheaper form of horse soldier than the mounted knight. By the Nineteenth Century, however, the dragoons had been largely shorn of their tainted infantry traits. Correspondingly, their prowess at dismounted combat declined as mounted duties took increasing importance in the role of the dragoons.⁴²

The dragoons were therefore not mounted infantry in the classical European definition. Technically speaking, mounted rifles or infantry (depending on the kind of small arms carried) were hastily formed outfits customarily created due to a pressing local shortage of full-fledged cavalry units. Mounted infantry, as understood in the first half of the Nineteenth Century, were essentially ground pounders inelegantly perched on whatever horseflesh was readily available. Under no circumstances were jerryrigged outfits intended to mount a real, saber waving cavalry charge. Rather, as pointed out by Colonel J. Lucius Davis, "MOUNTED RIFLES differs from all other cavalry in arms, manoeuver and in habitually dismounting for the combat, their horses chiefly the means of rapid locomotion."43 Such formations were rarely, if ever, equipped with the proper regalia and accouterments of "real" cavalry. Instead, the mounted infantryman's equipage was standard issue for foot soldiers plus harness, saddle and perhaps a short sword.

Spurs, the earmark of a true horse soldier, were seldom if ever bestowed upon the lowly mounted infantryman. Mounted infantry proved especially useful in European colonies where imported horses did not fare as well due to local diseases and because the indigenous horsemen were only rarely organized along lines approximate to classical theory.

Finally, there was the light cavalry. In terms of the peerage of the European mounted services, these sportive and spunky lads were, in effect, the equivalent of the traditionally good-hearted but naughty younger sons of the aristocracy. Awash in splendor, overloaded with color and marked by a surfeit of cheek and temerity, these daring descendants of the cavalier tradition were generally not particularly effective in their designated role of harassment and reconnaissance. This was due to the recurring habit of such units, in peacetime, of bulking up, in terms of horse size, into the range of the heavy cavalry; the British Army was clearly the worst offenders in this regard. The very embodiment of aristocratic frivolity, the light cavalry were markedly different in spirit and appearance than the somber, stout oaks of the heavy cavalry, which were the personification, as it were, of respectability and order. The popularity of light cavalry was subject to recurring shifts of enthusiasm on the part of military leaders due the waning of combat experience following a war and the gradual reassertion of tradition as dominated in

peacetime cavalry planning. Battlefield experience tended clearly to show the ineffectiveness of heavy cavalry and in turn, suggested that the most profitable application of mounted units would lie in scouting, which was of course the suit of the light cavalry. Doctrine, in contrast, overwhelmingly rested on the side of tradition and of the <u>cuirassiers</u> and thus trumpeted the crucial role of cavalry as being the forceful and expert delivery of the charge.

Light cavalry units, however, possessed other than strictly military virtues. For one, they were socially attractive to the upper class, what with their largely patrician officers (it took considerable sums to maintain a stable of fine horses, a retinue of servants, a couple of closets of exquisite uniforms and to bear the heavy burden of monthly mess fees) and their lush finery and splendid pageantry. No better exponents could thus be found of the romantic style of military service in the first half of the Nineteenth Century. The light cavalry also afforded an excellent place to pigeonhole dimwitted sons of distinguished officers and the less mentally agile youth of the aristocracy.

The hussars and chasseurs, the species of light cavalry most frequently encountered in European armies, and functionally interchangeable in nature, were intended to perform the more venturesome duties of cavalry. Thus their forte was the collection of battlefield intelligence, escort and

patrol duty and to a lesser degree, the execution of the shift, dauntless raids on the enemy's flanks and rear. In addition, the light cavalry was also most regularly assigned the grinding and highly unpleasant task of providing local army security as pickets and vedettes. The romanticism of the light cavalry was well described by Mahan, himself supposedly a very practical engineer:

The dashing bold hussar, the epitome of military impudence and recklessness...should present these qualities in a sublimated form on the field. Regardless of fatigue and danger, his imagination should never present to itself an obstacle as insurmountable.

Furthermore, the light cavalryman should always attack his foe, "with a falcon's speed and glance upon his quarry, however it may seek to elude his blow, such be the hussar."44

Cavalry was traditionally defined as an intrinsically offensive tool of war, in that it "is always weak on the defensive."⁴⁵ Consequently, according to Major William Gelhorn, "a body of cavalry which waits to receive a charge of cavalry, or is exposed to a force of infantry, or artillery, must either retire, or be destroyed."⁴⁶ Since the "paramount purpose of cavalry is to attack," it was a fundamental maxim of cavalry tactical doctrine, as here stated by Roemer, to "always husband the strength of the horses and never expend more of it than is necessary for the object aimed at."⁴⁷ The charge of horse was not dissimilar to the one shot musket: once a round was discharged or a

cavalry attack launched, in order rapidly to reengage the enemy, a fresh line had to be brought up or new mounted units unleashed at the enemy. The thundering cavalry attack was, in effect, a race against unit disruption and exhaustion, particularly with the heavy cavalry. The longer the distance over which mounted units charged, the greater the fatigue of the animals and, in turn, the lower its combat effectiveness. Similarly, upon impact with the enemy's line or mounted units, the assaulting cavalry was rapidly broken up, with tight formations quickly replaced by small packets of troops engaged in what were basically, private duels with Thus, in the course of a battle, cavalry units their foes. could be realistically expended only a couple of times at best, before becoming effectively hors du combat. Moreover, while a cavalry attack or melee was customarily brief in duration, no more than half an hour at most, mounted units, unlike the infantry, required almost an entire day to reform themselves for further action. The type of terrain upon which a battle was fought controlled, to a very large extent, the deployment and application of cavalry theory; to use mounted units on imperfect ground was to cause the fragile yet mighty power of the horse soldier to be disrupted or even broken. "The horse's power...", according to L.V. Buckholtz, "... is effective only by rapidity, and therefore, motion is the true element of cavalry." Furthermore, "it is only offensive, and depends entirely on the

contours of the ground, it is invincible on level ground, but useless in broken...land."⁴⁸ It was this fundamental sense of risk and imperilment, embodied in the vertiginous nature of the charge itself, a gamble with the fates as it were, that gave cavalry its distinguishing characteristic for being audacious and undaunted in battle, qualities that had particular attraction to the aristocratic military elites of this era.⁴⁹

Cavalry-versus-cavalry engagement were thus, by definition, a higher sphere of battle than either cavalry versus infantry or artillery engagements. Such a clash of opposing cavalry was as much a duel as a battle. It was to a very great extent, a test of one's mettle as a horseman, of a unit's prowess and fortitude. Success, since "the advantage is always with the attacking party" counselled Captain Emric Szabad of the Italian Army, thus depended upon the execution of a near flawless charge.⁵⁰ Or as Roemer put it,

A charge is a rapid and impetuous onset of a body of cavalry upon the forces of a body of cavalry upon the forces of the enemy. To be useful, it is necessary that the horses be at their utmost speed at the moment of collision, and if arrived well aligned and in a compact body, the shock must... overthrow everything that happens to stand in their leap.⁵¹

Courage, impetuosity, verve and honor were tested to the limit in such an engagement. "Cavalry", according to Nolan, "seldom meet each other in a charge executed at speed; the one party generally turns before joining issue

with the enemy, and this often happens when the line is unbroken and no obstacles of any sort intervene."⁵² In regards to the broader tactical aspects of battle, cavalry was deemed in the post-Napoleonic era as a necessary adjunct to true victory.⁵³ Thus while infantry was the most flexible and cost-effective combat arm, the cavalry was, as stated by Halleck, "indispensible for beginning a battle, for completing a victory, and for reaping its full advantage by pursuing and destroying the beaten foe."⁵⁴

The moral superiority and intrinsically greater virtue of cavalry served to grant true nobility and honor to a victorious army. Of course infantry and artillery were acknowledged as capable of achieving great tactical success in the absence of cavalry yet to the early professional military leaders such victories were viewed as tainted by lack of true elan and mettle.⁵⁵ Moreover, the lack of pursuit afforded by mounted troops was seen as robbing the victor of long-term success, a point well stated by Roemer:

Battles have been won with little or no cavalry, but they have always proved sterile and without results. The enemy is repulsed, but not destroyed; and after a few days reappears in the field with undiminished numbers, and ready to renew the contest.⁵⁶ [Thus,] no victory is brilliant which is not followed up by cavalry, and no battle is really destructive which is not determined by them.⁵⁷

If the engineer was the most advanced and scientific type of officer in the Antebellum era, then, in terms of military professionalism, the officer of horse was the most

traditional in character.58 Or as Captain Nolan put it so ably:

With the cavalry officer almost everything depends on the clearness of his <u>coup</u> <u>d'oeil</u>, and the felicity with which he sizes the happy moment of action, and when once action is determined upon, the rapidity with which his intentions are carried into effect. There is little time for thought, <u>none</u> for hesitation; and once the movement is commenced, its successful accomplishment is the ([only]) thought allowed to pass through the mind of the commander.59

There was a virtual timelessness to many aspects of the leadership style of the cavalry officer. While separated by a hundred years and by many military advances and numerous battles, there was nonetheless a deep kindred spirit between brethren officers of horse, of the early Nineteenth Century and those of the early Twentieth. In contrast, the perceptions and style of officership of engineer or infantry commanders changed markedly. The cavalry remained, to a much greater extent, wedded to their pre-professional, warrior traditions.⁶⁰

The belief in the moral superiority of cavalry had its roots in the uniquely hazardous nature of mounted duty. "Infantry, or artillery in position may passively stand fire;" instructed Roemer, "to strike down his adversary, the horseman must close, and the chances are that he receives a blow in return for the one he deals."⁶¹ Yet, romanticism dominated the conceptualization of the characteristics of mounted warfare. There was clearly a higher social connotation associated with horse soldiers. In other words, horses and thus cavalry were the badge and the province of true societal elites; infantry, in sharp contrast, were representatives of the plodding, lethargic masses of the peasantry. The bond between rider and mount was esteemed as being a truly spiritual relationship, one connoting not merely higher social standing but also greater moral force. On a practical level, cavalrymen were trained to regard their mounts as merely another piece of equipment and hence, disposable. Yet virtually all cavalrymen would have endorsed the concept, articulated by Buckholtz, that "man and horse are a unity, the brute force submitted to the rational will,....62 The very essence of cavalry theory was that it was an art and not reducible to a science. Thus the nature of cavalry, quite unlike other aspects of war and the profession of arms, by definition, could not be translated into mere mechanized routine or subject to scientific experimentation. Expressions by military writers of the efficacy of cavalry were really statements of faith; of a deep, underlying, pre-professional commitment to traditional warrior values.⁶³ Naturally, therefore, since cavalry was defined by its advocates as a way, a path and a tradition, such spiritual growth, warrior prowess and expertise in horsemanship could not be readily taught or learned. Hence, reliance on militia or hastily organized and improvised cavalry units, save for the most elementary tasks was

defined as sheer folly, a point very forcibly stated by Roemer:

When we reflect that it requires threefold more time to teach a man to ride and have a perfect mastery of his horse than to teach a foot soldier his complete drill and that when the horse soldier is thus far instructed he has still a vast deal to learn before his education is complete, it becomes evident that the hurried augmentation of cavalry forces should be scrupulously avoided. A regiment of infantry may be speedily increased without greatly impairing its usefulness in the field, by incorporating a certain number of recruits, most of whom had probably served already in the militia; but a few half-drilled horsemen, a few unbroken horses, will throw a whole line into disorder, and mar every effort of the most able commander.64

This crucial rule of cavalry organization was fully supported by Secretary of War Lewis Cass:

Untrained men on untrained horses, form a combination of awkwardness that can ensure nothing but extravagance and disgrace.65

Cavalry warfare stood aloof from the post-Napoleonic surge of professionalism and military science. Yet as an elite military force, cavalry served as a living expression of the essential aristocratic, warrior values that ultimately were the bedrock of the new mathematic style of war. In time, however, while the other arms of service prospered from technological advances engendered by the Industrial Revolution, the cavalry withdrew behind the ramparts of tradition. The increasingly evident obsolescence of cavalry, due to enormous increases of firepower, were, in the main, countered by cavalry leaders with re-expressions of the past triumphs of Gustavus, Frederick and Napoleon. In effect, the cavalry was slowly becoming a prisoner of its myths and customs, refusing to accept the necessity of change. Yet this was not blind military stupidity, until perhaps late in the Nineteenth Century, when cavalry zealots began pushing for the successful revival of the lance in face of the growing adoption of the Maxim machine gun. In the first half of the Nineteenth Century, while the efficacy of horse soldiers was indeed dimming, the recognition of this fact, was by and large still many years away.⁶⁶

Chapter III

THE RE-EMERGENCE OF THE AMERICAN CAVALRY --FRONTIER SECURITY AND THE PROFESSIONAL ARMY

Part I

Cavalry, in the years prior to John C. Calhoun's tenure as Secretary of War, enjoyed only slight support from either the national political leadership or the Army's commanders. General George Washington, during the Revolutionary War, opposed the development of a large American cavalry arm. The objection, drawn from classical European cavalry theory, was based upon the less-than-ideal terrain of the eastern United States. The absence of broad expanses of flat, open country and the existence of dense woods, hilly terrain and thick swamps barred the widespread use of mounted troops. This basic rule became ingrained in United States tactical doctrine through the early years of the Civil War.¹ Two collateral arguments against political support for mounted forces were commonly raised: first, the significantly greater expenses of maintaining cavalry units, which were of lower tactical utility than infantry; and secondly, the traditional association of horse soldiers with aristocratic power. The first objection was unquestionably the more tangible of the two. Cavalry units were nearly twice as expensive to maintain as infantry formations of equivalent size.

Nonetheless, the pre-War of 1812 Army had occasionally experimented with the use of cavalry. The first post-Revolutionary war cavalry unit was a squadron (about two companies of one hundred and sixty or so officers and men) created by Congress in 1792. This small force was subsequently raised to full regimental strength. The legislative warrant for this unit expired in October, 1796, leaving the Army with only the original two cavalry companies. Indian unrest in the Old Northwest Territory occasioned the creation on July 16, 1798 of six additional companies, merged with the existing force into a single mounted regiment. Due to the needs of frontier security, Congress on March 2, 1799 authorized three regiments of light dragoons, but these units never reached their targeted strength. The first era in the history of the United States Army's cavalry forces ended on March 16, 1802 with Congress's passage of the Jefferson administration's Peace Bill. This legislation abolished all of the Army's cavalry units. Due to increasingly troublesome relations with Great Britain, Congress, on April 12, 1808, legislated a general expansion of the Army, including a new regiment of light dragoons. This unit, however, remained dismounted until the outbreak of hostilities in 1812, due to financial restraints. Four years later, on January 11, 1812, a second light dragoon regiment was created for duty against the British. "Having proved almost unserviceable in the several campaigns", according to Secretary of War Lewis Cass, "the dragoons were disbanded at the peace with little or no remonstrance from any quarter.² Thus, in March, 1815, Congress abolished the light dragoon regiments in conjunction with a general reduction of the Army. As before, the objections were tactical, fiscal and political in nature.³ As Secretary of War Lewis Cass put it:

Troops of the latter character ((i.e., cavalry)) have never done anything as yet... the greater portion of the country in the East is unfitted for its use in masses... there only small numbers would be needed....4

United States frontier security policy, particularly the role of the Army in the maintenance of order and Indian control underwent significant change during the Antebellum period. Prior to the War of 1812, as with most aspects of United States war policy, the precise mission of the Army as to the issue of frontier security was quite ill-defined. On occasion, as in the 1790's campaign by the Legion (the organizational precursor of the division) against the Indians of the Old Northwest Territory, the Army played the leading role in formulating and executing frontier security policy.⁵ In the main, however, prior to the War of 1812, the Army lacked a coherent mission in regards to the issue of policing the western and southern territories.⁶ After the War of 1812, however, the Army gradually assumed a

virtual monopoly of organized military power on the fron-Thus, with brief and rare exceptions, principally tier. during the Civil War years, the Army was gradually assigned the exclusive role of providing military protection to frontier settlers. The acceptance of such a responsibility, in contrast to the earlier mixture of militia and regular troops, was assumed reluctantly by the Army's leadership. To them the Army's mission, as a progressive, professional and French-Austrian military organization, was the defense of the nation against an invasion by a European power. Congress and, in the main, the President defined the immediate justification for the maintenance of a military establishment in ensuring the peace of the country's frontiers. Nonetheless, while unenthusiastic about being saddled with the duty of frontier security, the Army's leadership accepted this irksome, fatiguing and even dishonorable work as a kind of unofficial quid pro quo, a bargain as it were, between the Army and its civilian masters: the professionalization of the regular military service in exchange for the use of the Army in frontier security. In other words, the far greater fighting power and organizational effectiveness of the regulars, as compared to the militia, was accepted as essential for ensuring the successful pacification of the Indian, despite the resulting development of a strong professional Army. While this unofficial compact would be beat and challenged severely in the course of the recurring

and quite ferocious debate over the utility and even the legitimacy of the regular Army, it nonetheless survived more-or-less intact through the Civil War.⁷

Prior to the creation of the Civilian Indian Bureau in 1849, as a division of the Interior Department, the Army stood in the problematical role of being at once both the guardian of the Indian and the protector of frontier settlers. Such an ambiguous and potentially contradictory set of responsibilities would seem to have demanded carefully crafted policy guidelines for the frontier officer.⁸ Instead, officers were required to muddle along, protecting settlers, maintaining a semblance of order and all the while guarding the Indian from the designs of unscrupulous whites, particularly those engaged in the nefarious whiskey trade, with no clear guidelines. Or as Inspector General Edmund P. Gaines put it, with less than clarity, in 1821:

No specific instructions can be given to the commandants of frontier posts, to govern their intercourse with the Indians in their vicinity, so as to meet all the exigencies of the service. After receiving such general directions as the case admits they must be left to exercise a sound discretion, being careful to avoid all occasions of collisions and of involving the country in hostilities with them.⁹

Army frontier policy in the immediate post-War of 1812 years, during Jacob Brown's tenure as Commanding General, was essential and reactive in nature. The Army's field command structure was changed in 1821 from a North-South alignment to an East-West division of active combat forces. This realignment was made in order to improve the Army's ability to carry out the task of frontier policing. In tactical terms, the new policy emphasized the establishment of a line of forts and cantonments along the principal rivers of the Mississippi Valley as far south as present day Arkansas and Louisiana and as far north as Minnesota. Water transport, via flatboat and more-or-less portable water craft served as the principal linkage between individual garrisons and frontier settlements. Essentially, there was the establishment of a firebreak between the white settlers and the western The problems with this wholly defensive approach Indians. to frontier security were numerous and substantial. Minuscule packets of infantrymen scattered over several thousand square miles, were simply too few in number and too widely scattered to be more than locally effective. A closely related problem was the inherent lack of mobility of the Water transport into the Indian country was regulars. usable only so long as the river systems remained navigable. The frontier Army, bereft of mobility and speed of movement on land, was incapable, with rare exceptions such as the 1819-1820 Yellowstone campaign against the Arikara and Sioux Indians, of mounting effective retaliatory strikes against marauders. A still larger failing of this static defensive scheme lay in the very nature of frontier settlement. The idea was to create a barrier between the Indians to the west of the Mississippi River network and the settlers to the

east. Moreover, eastern Indians would be forcibly resettled onto the western plains creating, as it were, a <u>cordon</u> <u>sanitaire</u> to further guard against attacks. In reality, the plan never succeeded. As soon as an Army post was established, traders and then pioneers would aggressively move beyond the effective range of the infantry garrison, fifty miles or so. During the 1830s a far more active and mobile frontier defense policy emerged during the tenure of Alexander Macomb and later, Winfield Scott as Commanding General of the Army. The primary hitch in implementing a more effective policy lay in overcoming Congressional opposition to the enlargement of the Army in general and in the creation of a cavalry force in particular.¹⁰

Notwithstanding the political and military objections to equipping the Army with a mounted component, demands for a cavalry force began to rumble eastward from the West from the 1820s on. One major source of political pressure for the establishment of a mounted unit stemmed from the growing Santa Fe Trail trade. Starting in 1823, the Missouri caravans for the first few years managed to complete their expe-The caravans of ditions without any Indian interference. 1825 and 1826, however, were both attacked by increasingly belligerent groups of Comanche and Kiowa Indians. In the main, such attacks were little more than nuisances. The merchant caravans, with over a hundred armed men and equipped with even small brass cannon, were quite formidable

as an armed force in their own right.¹¹ And, on the Mexican side of the border, the undermanned and poorly equipped light cavalry or <u>pictadores</u>, nonetheless provided a limited military force to cover the most dangerous leg of the journey.¹²

Many merchants involved in this commerce were either unenthusiastic or even hostile toward the idea of American Army escorts. However, such voices were a minority among the influential St. Louis merchants engaged in the Santa Fe Ironically, the leading (and by far the most powertrade. ful) advocate for Army escorts, was Missouri Senator Thomas Hart Benton, the leader of Congressional opposition to the professional army.¹³ The sharpness of one member of the expedition, generated sufficient political pressure to compel the Army to provide an escort. In 1829 such an escort was provided, on an experimental basis, consisting of a detachment of foot soldiers from the Third Infantry Regiment commanded by an experienced Indian fighter, Major Bennett The fleet Indian tribes of the Southwest plains, Riley. such as the Navaho, Kiowa and Comanche, were undaunted by the presence of American troops. The infantry, "walk-aheaps" to use the derogatory Cheyenne term, proved wholly ineffectual as a deterrent to the frequent hit-and-run raids on the caravan. What was so discouraging to the officers in command of the protective guard was their lack of mobility. As Major Riley put it with a deep sense of frustration:

Think what our feelings must have been to see the [Indians] carry off our cattle and horses, when if we had been mounted, we could have beaten them to pieces, but we were obliged to content ourselves with whipping them from our camp. We did not see any of them killed or wounded but we saw the next day where they had dragged them off. They have said sense ((sic.)) that our fire from the big gun ((i.e., a six-pounder cannon)) killed five or six.14

A similar sense of resignation at his inability to mount an aggressive pursuit was recalled by Major-General Philip St. George Cooke, then a second lieutenant and later, one of the leading Army cavalry experts in the pre-Civil War years:

It was a humiliating condition to be surrounded by these rasically ((sic.)) Indians, who, by means of their horses, could tantalize us with hopes of battle, and elude our efforts; who would insult us with impunity, much did we regret that we were not mounted too. 15

No further effort was made to provide an Army escort on the Santa Fe Trail until 1833.¹⁶ Field performance clearly demonstrated the lack of tactical effectiveness of relatively immobile foot soldiers against the fleet Indians of the West. The result of such an ignoble performance of arms was even louder calls by Western politicians for enhanced military protection in the form of cavalry units.¹⁷ Leading the growing chorus of support for such units were such traditional opponents of a large standing army and military professionalism as Senator Benton and Secretary of War Cass, of the Jackson administration. Joseph Duncan, a Congressman from Illinois, on March 25, 1828, wrote to Major-General Edmund P. Gaines, arguing for the formation of mounted units composed of "young men of vigor and enterprise, reared in the western country, acquainted with the Indian artifice and their mode of warfare, full of pride and patriotic spirit."¹⁸ Such units, embodying the full spirit of opposition to the regular Army, were claimed not only to be a more formidable threat to the Indians, but also far more responsive to the needs of Western pioneers.

By 1829 reports of difficulties with frontier security as then provided by small packets of relatively ponderous infantry manning static garrisons began to filter back east to an ever more receptive War Department. In April, 1830, Quartermaster-General Thomas S. Jessup, in a formal position paper, signaled the growing enthusiasm for the resurrection The problem, however, was the fear that a of a mounted arm. penny-pinching Congress would simply order one or more existing infantry regiments to be converted into cavalry units. Such a course of action would in no way address the critical lack of numbers of the Regular Army, increasingly burdened by the demands of frontier security. Moreover, infantry units, manned according to the tenets of limited war doctrine, were composed of the dregs and sweepings of society, hardly the kind of personnel required for what would be, according to European practice, an elite forma-Thus, as Jessup pointed out, there did in fact exist tion. a paramount need for regular Army mounted units:

As well you might leave the defense of our maritime frontiers and the protection of our foreign commerce to the artillery stationed on our The means of pursuing rapidly and seaboard. punishing promptly those who oppress whether on the ocean or on the land are indispensable to a complete security, and if ships-of-war are required in one case, a mounted force is equally so in the other. Were we without a navy, pirates might operate with entire impunity, not only on the high seas, but in our very harbors, and within view of our forts. So, without a mounted force on the frontier south of the Missouri, the Indian confident in the capacity of his horses to bear him beyond the reach of pursuit, despises our power, chooses his point of attack, and often commits the outrages to which he is prompted by either a spirit of revenge or love of plunder in the immediate vicinity of our troops, and the impunity of the first act invariably leads to new oppression.19

The Black Hawk War of 1832 constituted the first significant military problem faced by the Army following the War The suppression of the Sac and Fox Indians and of 1812. their allies, demonstrated the need for a reasonably large and professional military force. The state and territorial militia units, in the main, proved ineffectual as military Troops broke and ran, were far less than diligent forces. in the pursuit of their duties and of course, were far less proficient than the regulars in the performance of tactical operations and in maintaining discipline. Still another major problem was the constant wrangling and less than fully cooperative behavior of many state, territorial and local politicians; General Henry Atkinson, in overall command, labored mightily to employ his militia troops, in conjunction with handfuls of regulars, to bring Black Hawk's warriors under control.²⁰ The lack of sufficient numbers of regular troops and the resulting dependence upon militia forces, which prolonged hostilities and in turn heightened the cost to civil society, again, demonstrated to professional officers the clear need for an overall increase in Army strength. Thus the Army's leadership, in accordance with limited war doctrine, strongly questioned the wisdom of relying on ineffectual militia forces, the absence of which from the civil economy was costly and exceedingly wasteful.²¹

The Black Hawk War also demonstrated the need for a new Army mounted arm. The regular infantry were simply not fleet enough to pursue their adversaries; the Army was correspondingly dependent upon the availability of militia mounted infantry units to form the chase element in the order of battle. And as an Army officer put it, with a fair degree of frustration:

The war of last summer showed very clearly the impossibility of succeeding against the Indians with infantry alone. March after march was made by the regular troops without coming in contact with the enemy and it was only after many forced marches of the most harassing description that he was finally overtaken and brought to an engagement.²²

Limited funds were scraped together to mount a few companies of regulars as mounted infantry, but this improvised technique was not satisfactory. One of Atkinson's major complaints to Commanding-General Alexander Macomb was exactly this lack of mobility of his regular forces: As the Regular troops had no means of transportation by land and our supply of provisions and munitions required protection; and feeling unwilling to leave my base of operations I fell back with the regulars to this place to act as circumstances might require; besides none but a mounted force could come up with the Indians, unless they made a stand to contest the point of superiority, which was not expected.²³

Heeding the wishes of his field commanders, President Andrew Jackson openly pushed for the re-establishment of an Army mounted force as a result of the tactical experience of the Black Hawk War. Congress, however, quite unlike Calhoun's days as Secretary of War, was now dominant in the determination of a national war policy. While it was increasingly evident that a cavalry force was needed, there was no consensus whatsoever in Congress as to the form such a unit should take. Congressman William Drayton of South Carolina expressed the recognition of Congress that the issue of cavalry forces for frontier security was indeed a pressing one:

It would have been a vain attempt to pursue the Indians who committed these outrages, for they were all mounted on fleet horses, while the troops of the United States consisted of infantry alone, and they were therefore compelled to endure all the insults and injuries so sure to arise from Indian hostility.²⁴

The 1832 Congressional debate on the formation of a cavalry arm reflected the broader debate over the standing army. The distinctly minority position in the House of Representatives favored establishing formal cavalry units as a full branch of the regular. As articulated by such Congressmen as Dutee J. Pierce of Rhode Island and interestingly enough, former advocate of volunteer mounted forces, Duncan of Illinois, their position was expressly founded upon professional Army doctrine.²⁵ The majority perspective, to the contrary, was seething with opposition to professional military forces of whatever stripe. The regulars, as pointedly stated by Congressman John Carr of Indiana, were simply incapable of manning and operating any form of mounted force:

There was not... twenty of them ([i.e., regular Army troops]) who could ride a horse fifty yards, and if the Government should furnish them with horses, they knew nothing about taking care of them, and would destroy just as many horses as were put under their management.²⁶

Secondly, aside from the supposed lack of horsemanship of the regular Army, Congressional objections centered upon the very character and physical condition of line troops. Thus as the delegate from the Arkansas Territory, Ambroshe H. Sevier, critically noted:

What were the garrison troops? They consisted generally of the refuse of society, collected in the cities and seaport towns; many of them broken down with years and infirmities; none of them use to rid [(sic.]) nor in anywise fit for the service to be assigned them.²⁷

Finally, as passionately stated by Representative George Grennell of Massachusetts, the volunteer soldier, drawn from the environs of the frontier, would possess virtues and skills which would render him vastly more effective as an Indian fighter: Frontier volunteer soldiers would "counter wile with wile, and frustrate one stratagem by another, and loss ((sic.)) upon those savage men their own schemes of surprise and blood."

Moreover, the frontiersmen-soldier would be intrinsically loyal; thus, unlike the scurvy lot of the regular army, such noble men could not be corrupted into following the trumpet call of some would-be Napoleon:

There was no danger that these farmers would become... ((tempted to join)) the flying corps... [by] a summer's term of duty in defense of their farms and their firesides.²⁸

On June 10, 1832 Congress authorized the establishment of a battalion of mounted rangers, signaling the victory against the regular Army. The rangers, numbering some six hundred officers and men and organized into six companies, was clearly not an orthodox, professional military outfit. Rather they constituted a unique federalized species of volunteer unit; the men were subject only to a single year of service and were expected to arm and equip themselves.²⁹ The problem was that this unit, expressly unprofessional in character, was certainly not the cavalry force sought by the Army's leadership. This rough-hewed, highly undisciplined assemblage, which saw no action against the Indians, was simply too irregular an outfit to be freely accepted into the professional ranks of the Army. This short-lived experiment, unsuccessful and impractical, succeeded, ironically, in providing the advocates of a regular mounted service with the evidence necessary to prevail in Congress. Support for converting the mounted ranger battalion into a proper cavalry unit came from all quarters responsible for developing and implementing war policy in the Antebellum era. Captain Cooke, expressing the verdict of professional officers, curtly rejected the battalion as a military unit, with even less prowess in arms than some of the volunteer and militia units field in the Black Hawk War:

Of this corps (in justice not so formidable to its <u>friends</u> ((in Congress)) as a certain brigade of Illinois volunteers of notorious memory),... none more readily than myself would presume its <u>requiescat</u> in pace.³⁰

Similarly, Secretary of War Cass, reflecting a major shift in the war policy of the Jackson administration argued strongly for the creation of a full-fledged regular cavalry force, using of all things, the very rhetoric of military professionalism that he had so long been opposed:

Besides other important objects, it is desirable to preserve in our military system the elements of cavalry tactics and to keep pace with the improvements in them by other nations. The establishment of a regiment of dragoons would complete the <u>personnel</u> of our army, and would introduce a force which would harmonize with and participate in the <u>esprit du corps</u> so essential to military efficiency, and so easily... created by military principles.³¹

Congress as well moved to support the establishment of a regular Army cavalry service, following the complete failure of its non-professional mounted ranger battalion. The development of the new regiment of dragoons was spearheaded by Congressman Richard M. Johnson. Chairman of the House Committee on Military Affairs and interestingly, a renowned former Captain of the Kentucky Volunteer Mounted Rifles. Johnson succinctly listed the numerous failings of the battalion of mounted rangers when he wrote:

...the organization of the present battalion of mounted rangers... does appear to the committee to be very defective. It must be evident from the constitution of the corps of rangers, and from the short period of their service, their efficiency will be but little superior to that of the ordinary militia -- every year there must be loss of time in organizing and recruiting the corps and the acquisition of the necessary experience and knowledge, besides it cannot be expected that their equipment and horses will be equal to those furnished by the public.³²

Congress, therefore, on March 2, 1833, passed an "Act for the more perfect defense of the frontiers," converting the battalion of mounted rangers into the (First) Regiment of Dragoons.33 The creation of the Regiment of Dragoons established a precedent for other pre-Civil War mounted Essentially jerry-judged, with no organic ties to units. any tradition of mounted warfare, these units fell completely outside of table of organization and division of functions established for European cavalry regiments. At this stage in American military affairs, Congress was dominant in the development of national war policy. Consequently, the dragoons were largely a reflection of Congress's limited expertise in the mechanics of cavalry organization. Input from the Army's leadership was indirect and fragmentary. Congressmen Johnson, principally responsible for the final form of the dragoons, detailed the intended functions and duties of the Army's new horse soldiers:

Regular dragoons, it is believed, are fully competent to discharge all the duties that can be required of mounted rangers.... In celerity of movement they will of course be equal, and as it is the duty of dragoons to serve on horse and foot, they may be trained to the use of the rifle and the sword as occasion may require.³⁴

The dragoons could not, in any formal sense, be regarded as an American importation of European cavalry doctrine. Representative Johnson spoke of the ability of the dragoons to fight both mounted and dismounted. The formal, European definition of "dragoon" bears at best, a slight resemblance to the American form of this type of unit. As one European military dictionary put it, in 1745, dragoons were:

...mounted, who serve sometimes on Foot, and sometimes on Horseback; being always ready upon any thing that requires expedition, as being able to keep pace with the Horse, and do the service of Foot. 35

Thus, by definition, dragoons were expected to fight when necessary, on foot. However, unlike infantry, which usually fought in tight disciplined formations, dragoons' customary tactical deployment was in skirmisher order. This loose and even stylized formation was designed to allow the dragoons to do no more than simply harass enemy units with carbine fire. In other words, when dismounted, the European-style dragoons would form a long, loose line, one rank deep, and then, by the specified steps of the Skirmish drill, proceed to lay down, on the enemy's infantry and artillery, several volleys of harassing fire. Dragoons had gradually mutated into a generally orthodox cavalry formation; consequently, their earlier infantry attributes had either become largely vestigial or were shorn completely. Therefore, they generally fought as still another mounted unit, albeit with the carbine as well as sword and pistol.³⁶

What, therefore, was intended by designating the first post-War of 1812 cavalry as "dragoons"? They were certainly not intended to serve as "light cavalry", as hussars or chaussures. While the appellation of light cavalry has been commonly applied by later writers to describe the true character of the American dragoons, it is, misleading.37 Being capable of fighting on foot as true light infantry, exploiting the terrain for concealment and cover, the Regiment of Dragoons had considerably more tactical flexibility than the European hussars, which were intended to fight exclusively on horseback and to perform scouting and raiding duties, or the European style dragoon. 38 Nor were the Regiment of Dragoons mounted rifles, in that they lacked infantry weapons and were thoroughly trained to fight while on horseback. What lay behind Congress's establishment of a dragoon-like cavalry unit was two-fold: first, of less importance, was the fact that pre-War of 1812 units had borne a similar designation; and secondly and more importantly, was the fact that of all the orthodox types of mounted units, the dragoons were those which most approximately fitted the requirements of the frontier. Congressman Johnson had been a highly successful exponent of the Kentucky style of mounted volunteer rifles, which had performed with considerable effectiveness against both Indians and the British.³⁹ This experience was probably most important in determining the rough organizational make-up of the Regiment of Dragoons. The American dragoon regiment was thus a unique admixture of European dragoon, light cavalry, mounted rifle and light infantry principles, plus a liberal dash of the mounted volunteer experience of one highly influential Congressman, the by-product of political expediency and military necessity and not the creation of any conventional manual of cavalry organization.⁴⁰

Part II

The establishment of the Regiment of Dragoons, regardless of its lack of formal ties to the classical European cavalry tradition, was, nonetheless, a telling, if temporary, victory for the advocates of the professional army. In what amounted to direct competition, the volunteer ranger concept had failed as an alternative to the use of mounted regulars in providing frontier security. However, as a much broader consequence of the Black Hawk War, the Army, contrary to its self-defined, professional mission of preparing to meet an invasion by a major European power, was hereafter saddled with the primary responsibility of providing organized protection against Indian incursions.

The dragoons were a variety of cavalry, more or less, and thus the Army's leadership, in a manner unanticipated by Congress, determined to mold them into the shape of an orthodox mounted unit, at least in regards to tactics and Structurally, the organization of the dragoons equipment. was that of an American infantry regiment. Therefore, the Regiments of Dragoons possessed ten companies instead of troops, with battalions instead of squadrons as the next smaller unit below the regimental level. The regimental commander, for the interim period of unit organization, was the mounted rangers' senior officer, Colonel Henry Dodge. Prior to his service in the United State Army, Dodge had earned a reputation as an efficient volunteer officer in the War of 1812. During the Black Hawk War, Dodge distinguished himself as a colonel in the Michigan Territorial Mounted Militia, by winning the last and very decisive victory over the Sac and Fox Indians. Since Dodge was not a professional Army officer and desired early retirement to enter civil politics, real leadership of the dragoons fell to Lieutenant-Colonel Stephen Watts Kearny, formerly of the Third Infantry. Principally for political reasons, six of the former officers of the mounted rangers were accepted for service with the dragoons. This decision occasioned a fair degree of resentment among regular army officers, who saw it as "an absolute infringement of their implied rights" and which in turn, reduced the number of new slots on the very slow promotion list.⁴¹ All other officers were either recent West Point graduates, trapped in the limbo of brevet second-lieutenant status awaiting an opening in the career lists, or seconded from existing infantry units.⁴²

The dragoons were at once reconstituted into an elite regiment, not dissimilar from the British Guards. Because of the higher worth of mounted units in the hierarchy of traditional, aristocratic warrior values, despite being at the bottom of the career list in the ranking of the different categories of Army officers, the dragoons offered a higher degree of social status and prestige.⁴³ The romantic character of the dragoons was sprightly presented in the barracks song (or, in military slang, "Jody"), "The Bold Dragoon", of the later Second Regiment of Dragoons (who were tagged the "sons of Bacchus", for their supposed off duty revelries):

Oh: the dragoon bold! he scorns all care as he goes Rounds with uncapped hair reverends no thought on the Civil star that sent him away to the border war.⁴⁴

The composition of the rank-and-file of the dragoons was to be very different from any other Army regiment. In accordance with limited war doctrine, the rank-and-file were usually filled out with the refuse and sweepings of society; according to Frederick Marryat, a British traveler:

The privates of the American regular army are not the most creditable soldiers in the world; they are chiefly composed of Irish emigrants; Germans, and deserters from the English regiments in Canada. Americans are very rare; only those who can find nothing else to do, and have to choose between enlistment and starvation, will enlist in the American army.⁴⁵

While such men "were necessarily inferior as material to the ... volunteers enlisted ... expressly to fight ..., " recalled General Ulysses S. Grant, the value of such soldiers, to a professional army, one expressly founded on the limited war traditions of the French-Austrian school, was considerably greater than the eagerest of volunteers.46 Such men were by nature of little use to civil society, hence the cost to the nation of manning a military establishment was correspondingly lessened. Moreover, such men, particularly the immigrants and British deserters (prized by Army officers for their high level of training and discipline),47 lacking any ties to the larger society, were thus dependent on the military for succor. In turn, they could be subject to far more stringent discipline than would have been tolerated by citizen soldiers. In its recruitment policies, the United States Army therefore continued to follow the principles of limited war doctrine, in the Frederickian tradition.

The dragoons, however, were to be organized quite differently from all other Army units. The rank-and-file were intentionally recruited from every state in the union; the manpower was to be distinctly American in character, as opposed to the usual offscourings of society dredged up by the Army's recruiters, and the unit's spirit, that of highly This was not, most assuredly, and motivated volunteers. abandonment of one of the central tenets of limited war This style of recruiting was the norm in most doctrine. European elite units and the reliance on one's own nationals was increasingly common over the course of the Nineteenth Century as the demands for labor grew with the development of the Industrial Revolution.48 The recruitment for the dragoons was enormously facilitated by the fact that the unit was cavalry and by the lure of western adventure. As then Lieutenant Cooke pointed out, a recruiting expedition to Tennessee was a wholly successful undertaking:

Early in the summer of 1833, I was among the hardy sons of West Tennessee seeking to infuse an ardor for service in a wide regiment of cavalry, one destined, we believed, to explore far and wide the western territory, and bear the arms of the Union into the country of many Indian tribes. It was a prospect that did not fail to excite the enterprising and roving disposition of many fine young men, in that military state.⁴⁹

The army's haul from their recruiting efforts was, according to one of those enthusiastic Dragoon recruits, James Hildreth, composed of "young men... which in point of talent, appearance and respectability, perhaps never were... surpassed in the history of military affairs."⁵⁰ The high quality of the recruits and their boisterous spirit occasioned a fair degree of press attention. The <u>Albany Daily</u>

Advertiser, for example, commented quite favorably on the unusually high quality of the new cavalrymen:

...a particular fine body of men being selected with the greatest care--not only as to thews and sinews, and horsemanship, but as to their moral qualifications, and their general adaptation for a service requiring an unusual degree of skill, courage, coolness, and power of endurance.51

In part, the strategy of presenting the dragoons as an elite unit was no more than a recruiting ploy. Certainly the artful blandishments and sales puffing of the recruiters exploited fully this sense of superiority of the dragoons as an Army unit. According to Hildreth, such advertising methods were necessary because "so superior a band of young men could not have been induced to enlist themselves as common soldiers... where the very fact of a man's being a soldier seems to imply that he is fit for no other employment."52 On a deeper level, however, the deliberate recruitment of Americans rather than immigrants was representative of the same spirit of military professionalism as the Army's devotion to the French-Austrian school of war. In effect, the Regiment of Dragoons created an elite, pan-nationalistic unit: a physical representation of the central political tenet of the French-Austrian school of war that a country's army was to stand separate-and-apart from civil society, as a guardian of order and tradition.53

There were substantial problems associated with the establishment of the dragoons as an active Army unit. First

and most critical was the simple fact that the Army had few if any regular officers with cavalry experience. Due to the passage of some eighteen years since the disbandment of the light dragoons, the Army had to start anew with the creation of a cavalry establishment.⁵⁴ As one of the harried officers (some in Congress were pressing for an early termination of the dragoons if they did not take the field with dispatch), Cooke elaborated on the numerous difficulties facing the new unit's commanders:

These persons who may at times have felt symptoms of envy at the fortunes of officers preferred to new regiments, might console themselves if they could but realize the amount of labor, care, and vexations attendant upon the task of enlisting, organizing, disciplining, and instructing a new corps, of producing order from chaos (and much the more cavalry) where the amount of duty, instruction, and responsibility may safely be considered double in comparison with the And this, without consideration of the infantry. extra-ordinary fact, that cavalry tactics were unknown in the army, and with the whole theory and practical detail, were to be studiously acquired in manner invented- by officers, before they could teach others.55

Much of what Cooke complained could be traced to the fiscal restraints imposed by Congress. "The most egregious oversight on the part of Congress," according to Hildreth, was "...in not providing proper instruction in horsemanship and dragoon tactics...."⁵⁶ The result of this combination of inadequate funding and planning with Congressional pressure for quick deployment of the regiment was forcefully pointed out by western traveller Charles Fenno Hoffman: The omission of providing riding masters and a school of practice for both horse and men is a defect that all the care and exertions of the accomplished and energetic officers of the corps can hardly remedy.

The omission of the necessary provisions in the bill reported by Congress and the dispersion of the regiment on the frontier as each company is recruited... forbids an approach to such a state of discipline. The three new companies here ((e.g., Fort Gibson, in what is present day Kansas)) are nearly perfect in the light infantry drill, which enters largely into the maneuver of dragoons, but the exactness of their movement when mounted varies with the skill of each individual horseman.⁵⁷

The clear thrust of Colonel Dodge's exacting training regimen was to create a high quality, European-style cavalry unit. The difficulty was in translating foreign drill manuals into everyday practice for the officers and men of the dragoons. "Everything was new to them," recalled then Lieutenant Philip Kearny, nephew of the regiment's Lieutenant-Colonel Stephen Kearny. "The cavalry regulations for the maneuvers were taken from the French, almost literally translated."58 The difficulties of trying to train men, when the officers and non-commissioned officers were virtually ignorant of cavalry tactics and with only three or four copies of an obsolete French manual to guide them, is illustrated by how the intricate saber dance or drill was taught. At night, the officers were drilled as if they were back on the parade field at the Point; the following morning, the sergeants and corporals were put through their paces and, in turn, tried to instruct the men in this very difficult weapon. Moreover, there were no qualified riding masters to oversee the training in horsemanship; only in 1837 was a cavalry school established at Carlisle Barracks, Pennsylvania.⁵⁹

The Regiment of Dragoons, at least for parade drill purposes and in the eyes of western travelers inexperienced in the military arts, was quickly assuming the appearance of a disciplined and polished unit. "They were," as Edmund Flagg wrote, "all Americans, resolute looking fellows enough ... " and apparently ready for the rigors of frontier patrol duty.⁶⁰ What caught the eye of most observers was the supposedly higher level of individual motivation and the "ethnically pure" character of the men. Charles Joseph Latrode commenting favorably on the new regiment, stated that "the recruits for the service of the newly-raised regiment of Dragoons organizing for the future service of the frontier in place of the Rangers... were distinguished from the rag-tag-and-bob-tail herd drafted in to the ranks of the regular army by being for the most part, (["all Americans"]) athletic young men of decent character and breeding."61 In reality, the unit was seething with discontent and plagued by such high rates of desertion (as many as one hundred by October, 1833) as to seriously undermine the process of unit formation. The chief cause of this deep dissatisfaction among the men was the unexpected reality of the unpleasant conditions of frontier service. Upon the unit's initial

posting to Jefferson Barracks, St. Louis, the first four companies that had been organized were required to act as common laborers in erecting barracks and stables for the regiment. Such mundane labors contrasted quite unfavorable with the recruiting officer's hyperbole regarding the supposed ease of service in an elite cavalry regiment.⁶²

In 1834 the First Dragoons, for the first and only time prior to the Civil War, went into the field at something approaching full strength. Overall command of the expedition was vested in Brigadier-General Henry Leavenworth, then in charge of Fort Gibson and the Western Division of the United States Army.⁶³ The purpose of this campaign was to present a show of force so as to overawe the Plains Indians, particularly the recalcitrant Pawnee, Kiowa and Comanche, into respecting the rights and interests of Santa Fe Trail merchants, Arkansas Territory settlers and recently relocated Eastern Indians. A second and perhaps crucial purpose of the expedition was to prepare the war for the forced resettlement of the Southeast Indians onto the Plains. The original May date for launching the expedition was canceled due to difficulties in completing the formation and initial training of the regiment. Only in early June was the regiment's second battalion fully formed; the last three companies arrived only three days before the departure of the expedition. On June 15, 1834, approximately five hundred officers, men, Indian scouts and assorted civilians embarked

on this ill-fated campaign. The primary failing was a dangerous combination of ignorance and bravado. Virtually to a man, the Dragoons were wholly incognizant of the dangers associated with travel on the Great Plains, particularly by such a relatively large force. The campaign set out in June, during a year of exceptionally high temperatures, when potable water and forage were at their scarcest. Furthermore, the formation of the dragoons as a combat unit was nowhere complete. Not only was over half of the regiment either in transit to Fort Gibson or still in training, there had been no time for the assemblage to coalesce into an effective military force. Consequently, the poor performance of the regiment could be attributed to lack of organization and planning; or as Hildreth commented, "with but about six months training, and that under officers who know less of the maneuvers of a cavalry corps, than some of the dragoons themselves."64 Accompanying this expedition was noted artist and western chronicler George Catlin, then engaged in gathering information for his major work on North American Indian tribes. Catlin succinctly diagnosed the causes of the expedition's problems when he wrote:

In the first place, from the great difficulty of organizing and equipping, these troops are starting too late in the season for their summer's campaign by two months. The journey which they will have to perform is a very long one, and although the first part of it will be picturesque and pleasing, the after part of it will be tiresome and fatiguing in the extreme. As they advance into the West, the grass (and consequently the game) will be gradually diminishing, and water in many parts of the country will not be found. 65

The expedition ended in disaster. Catlin authored a haunting assessment of the progress of the campaign in midcourse: "of the 450 [actually, five hundred plus] fine fellows who started from this place [Fort Gibson] four months since, about one third have already died, and I believe many more... will yet fall victim to the deadly diseases contracted in that fatal country."⁶⁶ Some sense of the sever hardships and privations which befell the dragoons is afforded by the journal of First-Lieutenant Thomas B. Wheelock:

August 8. Marched at eight o'clock. Halted at three o'clock; distance eighteen miles; course east by south. Exceedingly warm day. Stubborn thickets. Crossed and encamped in the bottom of Little River; shallow stream, narrow bed, miry shores. No water from morning till the halt for the night. Passed many creeks the beds of which were entirely dry. Our Horses looked up and down their parched surfaces and the men gazed in vain at the willows ahead, which proved only to mark where water had been. The timber is larger here.... No longer any trace of the buffalo. Sick report numbers thirty men and three officers.⁶⁷

The result of this folly was to put the regiment out of action for some four months as an effective military unit with the loss of over one hundred troopers and officers, including General Leavenworth, as well as a third of its mounts. Nonetheless, there were very important and valuable gains recorded by the Army's first major campaign on the Great Plains. First, it served to establish the basis for subsequent intercourse between the United States government

and the assorted Indian tribes of the Great Plains. Secondly, it served as vast classroom in which the Army was tutored, although quite harshly, in the skills essential to the effective operation of military forces on the Great Plains.⁶⁸ Such was the speed of the Army in mastering these lessons, a point too easily obscured by the misfortunes of the Leavenworth-Dodge expedition, that within a year's time, the dragoons could easily mount reconnaissance and diplomatic forays of well over a thousand miles without incident. For example, on June 7, 1835, Lieutenant-Colonel Kearney began a highly successful expedition into the Iowa Territory, a journey of some one thousand miles, with B, H and I Companies. This force returned to base on August 19, 1835, without the loss of a single man or horse; or as the anonymous chronicler of this expedition put it, in words wholly different than those penned for the Leavenworth-Dodge mission: "Come 20 miles to the Fort ((Gibson)). Arrived there about 2 P.M. having been absent almost 3 months. Sickness and disease has been a stranger to the camp and all have emerged in good spirits... upon the whole I convey we have had a pleasant campaign."69

Part III

The Second Seminole War, 1835-1843, was perhaps the Army's "dirtiest" war of the Nineteenth Century. It substantially influenced the development of military profes-

sionalism in the officer corps. Indirectly, as well, it led to the creation of the Antebellum Army's second cavalry regiment. It was a war of shadows, of small patrols struggling through the inhospitable mire of the Florida Everglades hunting and in turn being hunted by the Seminoles, Creeks and their black allies, of ambuscades and reprisals. It was as well a second major test of the professional American Army in the post-War of 1812 era. The severe trials occasioned by this war stemmed as much from the numerous difficulties of jungle warfare, as from the confusion and disarray at the highest levels of the nation's war policy decision process. Ceaseless political pressure from Washington on the Army for a swift resolution of hostilities in conjunction with the failure of Congress to legislate adequate military resources to accomplish this task, served to derail any coherent and effective tactical solutions. The reasons for the Army's eventual success were principally ones of exhaustion and attrition of their enemies coupled with the painfully slow development of effective jungle war techniques. Seven senior officers and seven different tactical schemes were hastily devised and then just as hastily aborted due to the ever-louder chorus for an end to hostilities by Congress. The thoroughly European American Army was unsuited by organization, equipment and tactical doctrine, for the challenges posed by the unorthodox guerilla-style warfare. It took several years to devise effective combined Army-Navy operations; lack of cooperation between these two services was as much a lack of tactical theory and practice in joint small-unit operations as it was one of politics. The lessons learned by the Army's leadership were not, however, those of flexibility and innovation in military doctrine. Instead, as in the earlier Black Hawk War, this protracted campaign served as a vindication of the essential correctness of the Army's post-War of 1812 decision to realign itself on the French-Austrian school of war. Thus, as before, effective military action had been crippled, vast resources of men and money squandered and lives lost due to the interference and lack of fiscal support of politicians in both the executive and legislative branches. There was as well the usual lack of cooperation of state, territorial and local officials; the customary lack of militia effectiveness as combat troops; and the persistent lack of adequate numbers of men, equipment and funds. 70

For eight long years, under the most oppressive and difficult of conditions, the Army labored in its thankless and ignoble job of suppressing the Seminole and Creek Indians. The terrain of the Florida Everglades presented exceptionally inhospitable country for the operation of conventional troops. The men were plagued by the heat, the swamps, disease, alligators and the hard biting "tiny sandflies popularly called 'noseeums'."⁷¹ The difficulties of campaigning in the Everglades were catalogued with a good deal of anguish by Assistant Adjutant-General J. A. Chambers:

The troops have endured every hardship and privation, they had ((been)) exposed to the drenching rains, noxious vapors, and the scorching sun of an almost torrid climate; they had waded rivers, made long marches over burning sands, traversed almost impassable swamps, and sought the enemy in fastness such, as American soldiers had seldom penetrated before, and with a perseverance and energy, and a courage, worthy of the best era of the republic.⁷²

The Army's travails in the Florida mires and glades presented yet another example of an orthodox European-style army struggling to overcome an adversary that refused to fight by the standards of civilized warfare and on terrain that was inhospitable to standard tactics. From the Scottish Borderlands and the Balkans of the 1740s which had spawned the concept of light infantry, to the dense North American woodlands and General Braddock's massacre during the Seven Years War, to Wellington and the Spanish Peninsula, where modern guerilla warfare was born, to the burning sands of French Algeria in the 1830s and 1840s and the Great Plains and Florida Everglades of the United States, European-style armies had labored mightily and, on occasion, with a fair degree of ingenuity, to wage unconventional warfare. In the main, such efforts were rarely reflected in the manuals or in the training regimens of officer cadets. The only major influence on orthodox tactics lay in the use of light infantry as skirmishers to cover the advance of columns of conventional infantry.

Guerilla-warfare, in order to be effectively prosecuted required highly unorthodox tactics, the willingness of senior officers to trust the judgments of junior officers in the field and an effective, coordinated strategy with the diplomats and civil officials. The Army eventually solved the first two problems of tactics and command leadership. Out of the jumble of strategies tried in the Florida swamps, what emerged was basically the same strategy used seventy years later by the British in the Boer War. The swamps were sub-divided into a series of three-square-mile districts. In the heart of each district was a blockhouse and a lieutenant, captain or ensign with forty soldiers, Marines or The emphasis was on aggressive patrolling, volunteers. thereby severely curtailing the mobility of the Indians. In turn, larger detachments traversed the glades by water and on foot, progressively tightening the Army's grip on the Florida mires, in effect, squeezing the swamps dry of its Indian population. Indian Bureau agents, whose ineptitude and belligerence had been one of the primary causes of the outbreak of hostilities, eventually proved somewhat useful in securing the surrender of some of the Indians. Eventually, the Army more or less succeeded in pacifying the Everglades and bringing about the deportation of much, if not all, of the Indian population. These painful innovations in waging unconventional warfare, however, had no measurable impact at all on formal Army doctrine. The harsh tactical lessons learned in the Everglades remained behind when the bulk of the Army was withdrawn to deal with the problem of frontier security on the Great Plains. It was the national political establishment which had failed to support the military effort effectively, from which the Army again learned the painful lesson that in a crisis, it would ultimately have to rely on itself to defend the country.⁷³

The professional officer corp's assessment of the causes of this war appear, on first reading startling: the two primary factors in bringing about open hostilities they argued, were white greed for land and the conflict between two quite different cultures. In fact, these factors were, from the perspective of most professional officers, the usual causes of Indian-white hostilities in this period. The Seminoles had therefore been pushed into war by the unscrupulous acts of some white settlers and the fraudulent and corrupting practices of the whiskey dealers, a problem found on both the Southern and Western frontiers:74

... the passions of a people ((i.e., the Seminoles)), which had been smothered for fifteen years... were let loose, and the savage massacres which had appalled the stoutest breast, gave undisputed evidence of the character of the conquest. Florida, from this time forward, was a scene of devastation, murder, sorrow, and distress.75

The patrician members of the officer corps, charged with the conflicting duties of looking after the welfare of the Indian and in turn protecting the frontier settlers, whose greed all too often brought on hostilities, found the process of Indian control quite distasteful. Yet they dutifully set about their dirty work when the shooting started, the professional ethos of the officer corps placing it above the petty machinations and intrigues of the civil politicians. The Army had little affection for the savagery of their adversaries yet the members of the officer corps understood that it was a function of the Indians' very different culture, "their rude and uncultured code of laws."⁷⁶ The greatest complaint of the Army's leadership, however, was the usual lack of adequate manpower to prosecute effectively and speedily the wars foisted on them by the national political establishment, or as Potter put it:

If the President was determined to gratify the craving appetites of a few avaricious speculators, it was his duty to protect the <u>respectable</u> citizens of Florida against any injury ((that)) might result from his measure, he should have thrown such a force into the territory as to prevent the possibility of resistance....⁷⁷

At the onset of hostilities, the Army's forces in Florida numbered some five hundred men, mostly artillery troops manning the peninsula's fortresses. Their opponents, whose growing inclination to resort to war had been known for months, totaled some fifteen hundred Seminoles, Creeks and black allies. A considerable effort was thus spent by the Army and the Secretary of War in scraping up enough troops to prosecute the war.⁷⁸ Lacking resources and under intensive political pressure to produce a quick victory, the Army tackled its formidable problem with grim determination and, in time, considerable skill. Brevet Captain John T. Sprague, chronicler of this war, expressed the bitter feeling of most Army officers toward their civil political masters when he wrote: "Blood is spilt, millions are squandered, the country ravaged, when the means upon which the only hope was based, to avert the calamity, one put in requisition ((i.e., creating an Indian reservation in Florida)), and the army, amid vindictive abuse and unreserved condemnation, accomplished the desired end."⁷⁹ As usual, the militia proved largely ineffectual; in the best tradition of limited war doctrine, Sprague stated the Army's severe criticism of citizen soldiers.⁸⁰

If mustered into service, each man inevitably leaves his home unprotected while absent, solicitous for the safety of others, his own dwelling may be fired, and his family murdered; his farm from which he draws his daily food, becomes a barren waste, and the habits of industry, which have grown with his... ((efforts)), become enervated by pernicious example.⁸¹

At about the same time as the beginning of the Seminole War, the Second Dragoons were created by Congress as the Antebellum Army's second cavalry unit. The exact motivation behind the establishment of a second dragoons regiment is quite murky. The Second Dragoons appear to have been part of the temporary expansion of the Army in 1836 due to the outbreak of hostilities in Florida.⁸² Consequently, the Second Dragoons have been frequently identified as having been authorized specifically for duty in the Seminole War.⁸³ This portion is supported by the fact that in 1843, after cessation of hostilities in Florida, Congress moved first to disband and then to retain them as a dismounted rifle regi-This decision was in turn reversed in 1844, when Conment. gress authorized the remounting of the Second Dragoons due to strong Western political pressure for increased Army protection on the Great Plains.⁸⁴ The problem with this neat and guite linear progression of events in the complicated gestation period of the Second Dragoons is in the fact that the Everglades were the worst possible terrain in which to deploy cavalry. The morassy terrain of the Florida glades was completely impassable to mounted troops. Consequently, the Second Dragoons, during this campaign, were compelled to slog through the muck of the Everglades as lowly infantry along with the rest of the Army and Marines. Moreover, there is the interesting fact that the first posting of the Second Dragoons was not to Florida but rather to Jefferson Barracks, St. Louis, apparently for Western frontier security duty. It is thus probable that the Second Dragoons were created by Congress pursuant to increasingly vocal Western political demands for adequate military protection; in turn, the establishment of this regiment would have allowed for reassignment of an infantry regiment for Florida duty. However, the massive manpower requirements created by the Second Seminole War forced the Army high command to gut the Western Department for troops of all kind, including the Second Dragoons. The First Dragoons, save for perhaps a few companies in the first months of hostilities, labored alone as the Army's only western cavalry unit until the 1840s.⁸⁵

A third unit of cavalry, the Regiment of Mounted Rifles, was established by Congress in 1846, professedly to man a series of new outposts along the now heavily-travelled Oregon Trail.86 The origins of the Mounted Rifles if anything, are more shrouded in the obscurities of Congressional legislative history than the Second Dragoons. Certainly, this unit was one of congress's most whimsical and peculiar creations in the field of war policy. The primary armament was designated as the 1841-pattern rifle and, of all things, very oversized Bowie knives, which many officers replaced as soon as possible with a saber. The 1841-pattern rifles were simply too unwieldy and possessed too low a rate of fire to be effective for mounted frontier service. Moreover, there was simply no way such weapons could be used by a soldier when on horseback. Further complicating matters was the fact that a different table of organization than that of the Dragoons was established for the Mounted Rifles; thus this new regiment had two extra companies and over two hundred more men and officers. Even the facings on the uniforms were different: yellow (or orange after 1851) for dragoons, green for mounted rifles, as in British Army The motive of Congress in creating such a unit practice. instead of a third regiment of dragoons, which would have ensured the rationalization of Army units into a few specific types is obscure. The primary motivations appear to have been those of foreign policy and protection of the "true" Anglo-Saxon character of the American people and not the actual defense of pioneers on the Oregon Trail. In other words, nativism plus the then white-hot political issue of the Oregon boundary were really the principal influences upon Congress in creating the mounted rifles. The Congressional debates express concern for the racial purity of American society, the untoward threat of immigrants and the need to prove the superiority of youthful American society in the tussle over the Oregon Territory with decadent old Great Britain.⁸⁷ Of course such concerns had little rational connection with issues of national war policy; the mounted rifles was the least desirable form of cavalry in terms of European mounted warfare doctrine and the Army's senior leadership. Nonetheless, Congress did establish the mounted rifles, reasserting, if in a rather roundabout manner, its traditional opposition to military professionalism. The style of the mounted rifles--Bowie knives and long guns--conjure up images of such pioneer legends as Daniel Boone and Davy Crockett rather than regular Army soldiers. As an added benefit (if of small import), was the Army's growing surplus of expensive new percussion cap rifles (in the main, loathed by line infantry officers for their very slow rate of fire) could finally be

put to productive use rather than gathering dust in federal arsenals.⁸⁸

Part IV

The American West from 1812 to 1861 provided few opportunities for the youthful cavalry service to employ formal European mounted-warfare principles. The central obstacle to the effective mastery of cavalry tactics lay in the very wide dispersal of the Army on the Great Plains. At no time until 1861, did more than six companies of any mounted regiment ever serve together, after the initial assignment to the West. The ten companies of each mounted unit were scattered to isolated waddles vain-gloriously titled forts. Moreover, each company was further subdivided into still smaller detachments to man assorted cantonments and posts. The positioning of such detachments was chiefly a political and not a military decision; Army bases in this period were usually situated near settlements or astride commercial and pioneer trails. In 1835 the First Dragoons, according to the Annual Report of the Secretary of War, listed three companies at Des Moines, four at Fort Leavenworth and three at Fort Gibson (Arkansas). In 1848, the First Dragoons listed three companies within the New Mexico Territory and one each at Fort Leavenworth, at Fort Scott (in present day Oklahoma) and at Fort Snelling (upper Minnesota). For the same year, the Dragoons had deployed six companies in the New Mexico territory, two in Texas and two in transit to California.⁸⁹ To put these numbers in perspective and to facilitate an understanding of how hard-pressed the Antebellum Army was in fulfilling its frontier defense obligations, consider the following (and quite typical) statement of the Army's western deployment in 1854;

A. The Department of the West, including the country between the Mississippi River and the Rocky Mountains, save for the Departments of Texas and New Mexico, with a total of 2,400 square miles of territory to be patrolled, occupied by an estimated 180,000 Indians and policed by a total of 1,855 officers and men;

B. The Department of Texas, consisting of that state and adjacent land for a total of some 2,000 square miles, with 30,000 Indians watched over by 2,886 officers and men;

C. The Department of New Mexico, with 1,500 square miles, 50,000 Indians and 1,654 officers and men.

D. The Department of the Pacific, embracing California and the Territories of Oregon, Washington, Utah and part of New Mexico, 3,100 square miles to be patrolled, 134,000 Indians and 1,365 officers and men for the job.⁹⁰

Fundamentally, the professional Army viewed the task of frontier security as not constituting a military problem. Irregular or partisan warfare, according to the prevailing military-legal doctrine, was barbaric and intrinsically dishonorable. John P. Curry, an author of field manuals for the militia, penned a precise statement, in 1861, of the formal military animus toward guerilla warfare:

This, the most barbarous and inhuman mode of warfare known, and by no means recognizable among honorable comba-

tants, is generally resorted to by irregular troops for the purpose of harassing and annoying an invading army entering an enemy's territory. They ((e.g., guerrillas)) usually murder for pay and plunder, and are not prompted by any spirit of patriotism or honor. Guerrilla warfare consists, mainly in making night attacks, way laying strangers, the free use of poison... firing upon victims from ambush... and in robbery, pillage and assassination. If a guerilla is caught, no clemency whatever should be extended to him.⁹¹

This pronounced opposition to partisan warfare by members of the trans-Atlantic military community, was part of the legacy of the limited war tradition and the profound intellectual reaction against the unrestrained violence and the brigandage of the Thirty Years War. War was thus supposed to be fought according to universal rules of engagement, by clearly identified combatants for limited objects and restrained by reason and honor.⁹² The problem, therefore, for the Professional American Army, was how to wage an unorthodox war without sacrificing its hard-won commitment to a European style of war and in turn, without sullying its honor, "that active and heaven-born principle,... that purifying an ennobling sentiment which pervades every word and action, while it regulates and controls the passions...".93 The Army, it should be recalled, was bound as well by its seconds obligation of protecting the samesaid Indians from the unlawful conduct of some whites. The problem was never formally tackled by the Army's leader of how to blend these disparate duties into a coherent policy: tactical problems of frontier security and legal questions involved in the

management of Indian affairs were largely left to the imagination and discretion of field officers.

That is not to say that the European military traditions and practices on which the professional Army was modeled had no utility in aiding officers in tackling the complex and thorny issues involved in frontier security duty. Surprisingly, it was again the tactics of the French Army which proved invaluable in solving the question of how to control the Indians. A frequently used term to describe the Indians, was that they were "Arabs" or "mussulmen". Captain John Pope, for example in describing the Indians of the Southwest in 1853, stated that their habits (including in battle) were similar to the "wild Arabs" of the desert.94 Similarly, Army Surgeon R. Gilson, described the Comanches as "those arabs of the western prairies."95 The origin of this practice of defining the Army's problem of Indian control as analogous to management of the Arabs was derived directly from recent French Army experience in North In the 1830s and 1840s, French armies waged a Africa.⁹⁶ protracted and highly fluid war with the Berber tribes. The initial and wholly unsuccessful tactical scheme was the "Great Wall", entailing reliance upon numerous small, static garrisons to seal off the Berber threat from populated Essentially, therefore, in terms of American areas. frontier military policy, the same type of tactics which had proved equally ineffective on the Great Plains and in the Mississippi Valley in the immediate post-War of 1812 period. In 1840 Marshal Thomas-Robert Bugeaud was dispatched to Algeria to take command of the flagging war effort and to implement his guite original and even daring tactical solution to the Arab's guerilla tactics. Within his command were three American Cavalry lieutenants sent to France by Secretary of War Joel Poinsett with the objective of returning with the most up-to-date training and manuals in mounted warfare so as to ensure that the dragoons were truly an effective cavalry unit. Bugeaud replaced the numerous small garrisons with large, strategically positioned concentrations of troops. The new tactical emphasis was on celerity and mobility; heavy supply wagons were replaced by mules and the heavy artillery left at base. Small detachments of cavalry and infantry were sent out as scouts to shadow the Arabs and pinpoint their location. Aggressive patrolling and rapid and effective retaliatory strikes by cavalry and infantry, exploiting their new swiftness of action to the fullest, accomplished in four years what France had failed to do in the previous twenty; or as Bugeaud himself put it:

I have made myself as much an Arab as you are. More than you perhaps for I can remain on campaign longer without returning for supplies. Your vast solitudes, your steepest mountains, your deepest ravines cannot frighten me or stop me for a moment... I am mobile as you are. There is not as single corner of your territory which I cannot reach. Like a river of fire I will scourge it in all directions, today to the south, tomorrow to the east, the day after to the west, then to the north.⁹⁷

Arab and Indian societies were highly dissimilar, the former being considerably more organized. Yet the styles of warfare of these two peoples bore many similarities: fleet, highly mobile adversaries, specializing in hit-and-run tactics, and exploiting the harsh, inhospitable terrain in which they lived to their advantage. Thus, there was a common bond of experience, based on the solution of broadly similar tactical problems, between American and French offi-Lieutenant Philip Kearny, who distinguished himself cers. in the Algeria campaign of 1841-1842, returned to the dragoons imbued with the latest advances in waging both orthodox and unorthodox warfare. For Kearny, "the French theory of tactics... ((was)) the most perfect" of his day, a statement which would have been readily agreed to by most professional officers on both sides of the Atlantic. While the French tactics in Algeria, unlike their formal principles of mounted warfare, were never written down in any formal military treatise, they nonetheless influenced American counter-Indian tactics in the Antebellum era. Mule trains were used for resupply in rough country, infantry were employed to screen cavalry and supply trains from ambush in mountainous terrain and small herds of sheep and cattle were driven behind the troops to provision large field operations.⁹⁸ Thus, the definition of frontier security problems in the context of European military practice, particularly that of the Army's mentor, France, further

strengthened the ties of the officer corps to the professional concept of war.

Both the French and the American armies arrived, independently, at the conclusion that cavalry was fundamental to the effective control of hostiles, Arab or Indian. Thus without cavalry, according to Colonel George Croghan, "our interior commercial can ((not)) be protected against the tartars of the prairies by Infantry stationed at posts, without the assistance of a mounted force."99 Again, as pointed out by Captain Cooke: "in no country of Europe, nor in Asia, can horses be so numerously and so cheaply supported as in the United States; and our plains and prairies plainly indicate that cavalry is the most suitable military An alternative tactical solution to the problem force."100 of suppressing the raids of the Plains Indians would have been by the use of a largely mounted combat force, supported by limited numbers of infantrymen to man garrisons and for use in hilly terrain. Such tactics were used in the Nineteenth Century by Imperial Russia to secure control over their Central Asia territory. Such a radical departure from orthodox military tactics never developed due to two insurmountable obstacles. First of all, Congress had little enthusiasm for expanding the strength of the Army, resulting in a continual shortage of troops that was only gradually solved over the course of the Antebellum period. The second key obstacle lay in the intrinsic military professionalism of the Army itself. The fundamental tactical precept of formal European-style warfare was that the infantry was the king of battle; cavalry was no more than a useful adjunct to the foot-soldiers. The Army therefore went about the difficult task of Indian control by bending and twisting their European oriented war fighting system to the requirements of the frontier.

Practically speaking, the basic operational character of the Army's means of suppressing Indian incursions was wholly military in character. It was not, however, defined as being military in nature by the officers waging these campaigns. On the other hand, it was clearly not the police-like campaign employed across the border in Canada. The Royal Canadian Mounted Police tackled the question of Indian control in the fashion of a conventional police problem of maintaining law and order. This approach was wholly reactive in nature: in the main, individual violators of Canadian law would be apprehended and tried for their offen-Only infrequently did the R.C.M.P. resort to the use ses. of large scale detachments of police and soldiers to control their Indian populations; for example, between 1886 and 1895, there were 943 military engagements in the American West compared with only six or seven in the Canadian Northwest Territory. Of enormous importance in aiding the efforts of the R.C.M.P. was the fact that the central Canadian government worked vigorously to restrain western settlement until the Indians had been pacified. Consequently, the R.C.M.P. was not nearly as burdened as was the American Army with the task of safeguarding large numbers of western settlers from Indian attack. While seemingly more orderly and less combative, the Canadian police model did not, in fact, prove successful. It was rather the far more massive and belligerent campaigns of the American Army to the south that broke the resistance of the Great Plains Indians on both sides of the border.¹⁰¹

A second, very different strategy of Indian control was that of the Texas Rangers. Basically, in dealing with the Comanche and other tribes, their technique was to out-Indian-the-Indian, including, on occasion, the ferocity of The Rangers attempted to drive their opponents to combat. ground and then decisively engage them, exploiting the enormous firepower advantage of their Colt cap-and-ball revolvers to the fullest (the Rangers had these weapons in action some twelve years prior to official Army service adoption); an average company of one hundred and twenty men, armed with two revolvers each, could discharge a then mind-boggling total of fourteen hundred and twenty rounds without reloading compared to the earlier total of one hundred and twenty with single-shot weapons. When the Cossack-like Rangers were infused with military discipline, as in Rip Ford's famed 1858-1859 campaign on the Canadian River against the Comanches, the results could be devastating against the

145

Indians.¹⁰² The United States Army, inherently a military force and governed in its actions by its professional code of honor, chose instead to corral the Indians, who were at once their adversaries and in effect, their wards, onto secure reservations.

The concept of the American Indian held by Army officers was marked by a profound sense of ambiguity. Many officers, according to the popular stereotype, did find the Indians to be savages--cruel, selfish, treacherous, disgusting in their personal and societal habits and inveterate beggars,¹⁰³ As forcibly articulated by Lieutenant William Averall, there was something quite demeaning in the nation's practice of squandering its West Point graduates on the lowly and occasionally dishonorable duty of Indian control:

With all the elements of science and rudiments of art with which we had been loaded during the four years ((at West Point)), we were... now to be used simply and sadly to supervise the learning and disciplining of soldiers and to train them in the art of killing Indians.¹⁰⁴

As a rule, the greater the ferocity and the larger the variance from accepted practices of American culture, the greater the dislike of such Indians by members of the officer corps. One Army wife, Theresa Viele, writing for her husband, a captain, described the Comanche in the harshest of terms: "there could not be a blacker record of infamy and rapaciousness. The Comanche possesses no vestige of the noble traits of the redmen of the northwest." Rather, "he is a bloody, brutal licentious, and an innate thief."105 Such perceptions, however, reflected only part of the complex set of viewpoints held by members of the officer corps concerning the Indian, who as Surgeon Gilsan pointed out, "range from the primitive savage to the half-civilized...."106 The perceptions of individual officers thus varied with their own personal experiences and in turn, due to the particular tribe(s) with which they had contact. Thus, Major-General George A. McCall, as a youthful junior officer serving in Florida in the late 1820s, penned a quite perceptive assessment of the Seminole Indian and his relationship to white society:

The difference in the development of the intellectual facilities as well as moral, had they been by nature carved in the two races, which I am satisfied is not the case... ((lies in)) education or in other words, the habitual experience of the mental moral faculties in the different pursuits of savage and civilized life, would, in the course of ages, have produced the differences between the white man and the red which now exist.107

Indian warfare, savage and barbaric to most whites, could thus be understood by the professional soldier as a function of his less developed culture, a point which was succinctly stated by Lieutenant Potter:

In war, the Indian has been regarded as a ferocious beast, and therefore life and death was a matter of mere precaution. He goes into battle smarting under manifold injuries and indignities, and he is driven into madness and despair by the overwhelming ruin which results from a war with us.108

The duty of the Army in regards to the Indian was inherently contradictory, requiring it to protect both red

and white interests. Moreover, the professional ethos of the officer corps, their strong patrician values and sense of aristocratic honor, motivated them to intervene on behalf of the Indians and to protect them from the frontiersmen, particularly the infamous whiskey dealers, for whom they had little affection.109 Yet with skill and determination, if not enthusiasm, these officers undertook the forced relocations of the Indians further West, onto increasingly less desirable terrain.¹¹⁰ While such efforts were "cruel in the extreme" they were nonetheless carried out.¹¹¹ Perhaps Surgeon Gilsan best expressed the tangled perceptions and values held by Army officers toward "those children of the forest", when he wrote with considerable insight and compassion:

Thus it ever is: the red man of the Atlantic slope must be crowded further west, whilst his race on the far-off Pacific shores, are jostled and pushed towards the rising sun. When at last the great tides of immigration met midway between the two oceans, the remnants of the sixteen millions of those native bands of the soil, that once roamed over this broad land, who shall have left their bones bleaching beneath the waves of advancing civilization. One shudders at the thought of the many blood conflicts yet to occur between these contending races of human beings....

If we are to take history as our guide in determining the future, the right and wrong of those cruel encounters will not always rest exclusively on either side -- but one time with the red man -- at another with his pale-face brother.112

Whatever its reservations toward the business of Indian control, the Army nonetheless had on occasion to use force to suppress uprisings. Few comprehensive descriptions of cavalry versus Indian engagements were recorded in the Antebellum period, by American cavalry officers. One exception is the illuminating account by then Second-Lieutenant John The distinguishing feature in this skirmish was B. Hood. that Hood's men, due to insufficient numbers leaving no one to spare to act as horse handlers, fought mounted, rather, than as was customary, as dismounted light infantry. On July 5, 1857, Hood set out from Fort Manon, in the Texas Department of the West, with twenty-five men of Company G of the later First United States Cavalry. Their mission was a routine patrol of the area. After some ten days in the field, Hood's men chanced upon a two or three-day old Indian trail, which the patrol proceeded to follow along a line of dried-up waterholes. The Indians being stalked were suspected by Hood to have been a band of marauders, incorrectly identified as being Tokaways (who usually fought as scouts along side the Army), who had previously ambushed American soldiers whole under the guise of a flag of truce. After several days of difficult travel through the arid, rocky, desert country, Hood's detachment finally came upon the Indian band they had been diligently hunting. Hood's operational strength had diminished to only seventeen men as a consequence of injuries to eight of his horses. Upon reaching the Indian encampment, Hood proceeded to make an initial inspection while mounted. The Indians held a waterhole, positioning their encampment on a hillock, concealed by thick clumps of Spanish bayonet. What Hood had come across was in fact a band of some one hundred Comanche and Lyan-Apache warriors and their families.113 While decisively outnumbered, these troopers had the advantage of greatly superior firepower:

Every man was armed with an Army rifle ((e.g., A Sharps 1854-pattern single shot, breech loading carbine)) and six shooter, a few of us had sabers and two revolvers, whilst I was armed with a double barrel shot-gun loaded with buckshot, and two navy six-shooters ((.36 caliber as opposed to .44 caliber - officers still commonly purchased their own side arms in this period)).114

Indian armament consisted of bows-and-arrows, lances, buffalo hide shields and a few single shot trade muskets (so-called, because they were cheaply made especially for the Indian trade).¹¹⁵ Despite the unfavorable disparity in numbers, Hood elected to close with the Indian warriors or dog soldiers because he, like many other officers, was personally inclined to accept "the belief ... that twenty well armed soldiers should be able to successfully engage four times their number of Indians...."116 Such beliefs did not constitute idle boasting or false bravado on Hood's part. The combination of superior firepower, as provided by Colt-Dragoon pattern cap-and-ball-revolvers and Hall and Sharps carbines, with vastly greater discipline, fire control and marksmanship allowed small bodies of troopers to deal with much larger Indian warrior bands.117

Indian tribes did not fight according to European concepts of warfare; tactics as such were largely unknown.118 By-and-large, most cavalry-infantry skirmishes arose from chance encounters; it was the Army which was the aggressor on most occasions. For the most part, Plains Indians fought what were essentially individual battles regardless of how many warriors were involved. The aims of the combatants were completely different: for the Indian, war was a question of honor and necessity, such as contests for horses or valuable hunting land; for the Army, it was their full-time occupation. The first phase of such a battle was for the Indian warriors to charge in mass and then, at about one hundred yards, split into two formations skirting the soldier's position so as to avoid their greater The Indians hoped to cause sufficient disarray firepower. among their opponents so as to draw them into their style of individual, close-order combat. The warrior's greatest achievement lay in the accumulation of personal honor, achieved by scoring coups or touches with a specially nonsharpened stick or performing some other equally brave feat. Killing an opponent, while prestigious, constituted a somewhat lower level of achievement. Once one's personal honor had been vindicated, it was perfectly acceptable for that brave to sit out the remainder of the engagement. And there was no obligation of honor for any warrior to participate actively if he and the spirits did not feel it was a good day for him to die. In contrast, the Army's soldiers attempted to ensure the death of their opponents by aiming their weapons, unlike the Indian practice of firing in barrage-like fashion, the same as they would when hunting buffalo. Furthermore, the Army fought in controlled, disciplined formations with a clear, concerted object of trouncing their foes.119

Returning to Hood's narrative:

When we were within about twenty or thirty paces of the mound occupied by the Indians... a force of them advanced towards us with the flag ((i.e., a white sheet fraudulently out as a flag of peace)). Suddenly they threw it to the ground and fired upon us.¹²⁰

The Comanche and Apaches proceeded to launch their attack, on foot and horse, against Hood's detachment:

Thus began a most desperate struggle. The warriors were all painted, stripped to the waist, with either horns or wreathes of feathers upon their heads; they bore shields for defense, and were armed with rifles, lances and arrows. The full and sharp report of our rifles, the smoke and encroaching noise of the fire ((a defensive blaze set by the Indians to screen their women and children)), together with the great odds against us, the shouts of the soldiers and the yells of the Indians, betokened ((sic.)) the deadly peril from which seemingly naught but a miracle could effect our deliverance. Each man after discharging his rifle, drew his revolver, and used it with terrible effect as the warriors, in many instances. were within a few feet of the muzzle of our arms. Stubbornly did my brave men hold their ground; again and again they drove the enemy back to the edge and in rear of the burning mass of weeds in our front, when finally the Indians charged desperately and forced our line back a few paces in the centre.121

Thus raged this hand to hand conflict until all our shots were expended, and it was found that owning to the restiveness of the horses we could not reload while mounted. We then fell back about fifth yards and dismounted for that purpose.122

At this point in the engagement the Indians broke off the fight, signaled by a loud piercing scream from their squaws for their dead and wounded, with an estimated ten warriors killed. Hood's detachment had suffered two men killed, four severely wounded and several flesh wounds; the unit's commander himself suffered a grievous injury as a result of an arrow which struck his left hand, pinning it to his bridle. After retreating some fifty yards to reload, Hood decided to first care for his injured. Despite his wound, Hood continued the chase, which forced the Indians back on their reservation, first with infantry and then with cavalry reinforcements. Later intelligence from the local Indian agent confirmed the actual loss of nineteen warriors, including two minor chiefs, and many wounded. The Army's dead were buried with full honors, with the following eulogy:

No useless coffin confined his breast Nor in sheet or shroud they buried him But he lay like a warrior taking his rest With his martial cloak around him.123

For his handling of this action, Hood was personally commended by Brevet Major-General D. E. Twiggs, commanding the Department of Texas, and quite unusually, by Commanding General Scott, for his gallantry, coolness and efficiency.124

The tactics which the American cavalry adapted for use on the frontier were wholly French in origin; Lieutenant Kearny championed the superiority of their mounted warfare doctrine when he wrote, "in cavalry which... the French, has kept progressing in perfection ever since the great wars of Europe, everything useless has been rejected, and everything... is practiced in the best manner."¹²⁵ The 1841 or so-called Poinsett manual of cavalry tactics was lifted in total from the then standard French work on mounted warfare. At Carlisle Barracks Army horse soldiers were drilled in the techniques and customs of European-style cavalry warfare, while field commanders were left free to devise their own schemes for instructing their men in Indian fighting. And at West Point, save for Captain George H. Thomas's brief tenure (1850-1851) as instructor of cavalry tactics, cadets received no instruction whatsoever in the intricacies of Indian management.126

Not only were the cavalry tactics not affected by frontier experience but the Army's equipment and weaponry was equally little affected. The enormous gulf between the formal, professional Army and the ragtag force guarding the frontier, was demonstrated by their continuing commitment to the <u>arme blanche</u> as the primary cavalry weapon. Only a handful of men and officers carried a saber into the field; its principal functions in the West were ones of ceremony and as a badge of rank. Saber charges of the classical, European variety were virtually unknown in the Indian wars of the Great Plains. Moreover, many a cavalry officer questioned the utility of carrying swords when engaged in Indian fighting. Major Albert Gallatin Brackett pointedly expressed the limitations of the saber, when he wrote:

The saber in Indian fighting is simply a nuisance, they jingle abominably, and are of no earthly use. If a soldier gets close enough to use a saber, it is about an even thing as to who goes under first....127

Similarly, Major-General William Hardee argued that in Indian fighting, a saber was unnecessary because:

In marching it makes a noise which may be heard at some distance, perhaps preventing a surprise, and in a charge, when not drawn is particularly an encumbrance.¹²⁸

The cavalry was very deficient, as well, in its firearms. Granted that most soldiers, of whatever branch of service, were only "average marksmen", and that most commanders rarely emphasized target practice, yet the cavalry's firearms were exceedingly inefficient even by the standards of the day.129 As Inspector General, Colonel Joseph Mansfield put it in his official report, "the musketoon as arm for the dragoon or mounted man in any way is almost worthless."130 While "illy suited" for the demands of Indian fighting, the smoothbore remained in service until the Civil War.131 The Ordinance Bureau, hidebound in its devotion to orthodoxy in firearm design, fought aggressively to block the adoption of first the Hall carbine, then the Sharps carbine and the Colt revolver as mechanically unreliable, as

too complex to be issued to common soldiers, and far too expensive.132

The uniforms of the dragoons and mounted rifles were wholly unsuited for the rigors of frontier service. Heavy wool cloth, tightly cut and adorned with brass scales on the shoulders to ward off saber blows were fit only for placid surroundings of an eastern parade field. Most soldiers and officers improvised their own personal field uniform, consisting of a mixture of civilian and Army-issued clothing.¹³³ Perhaps the most glaring example of the continuing domination of formal European military doctrine, regardless of actual experience in Indian fighting, can be found in the selection of mounts for the cavalry. The dragoons and the mounted rifles were created specifically to combat the swift and highly mobile Indians of the Great Plains. The Army's leadership, however, desiring to make their cavalry units fit-and-proper according to European military standards, chose standardbreds, thoroughbreds and Morgans as their Such majestic animals were functionally outclassed mounts. by the unimpressive-looking Indian pony. The Army's horses required greater care and were dependent for their sustenance on grain, preferably oats, and not the abundant wild prairie grasses. Not only were the Army's horses inferior as cavalry mounts, in regards to the requirements of Western Indian fighting, they were decidedly slower as well. Furthermore, speed was not an appropriate term to describe a trooper in the field, weighed with up to a hundred pounds of weapons and supplies. Eventually, cavalry commanders, once having become adjusted to the realities of patrol duty on the Great Plains, trimmed the weight of the loads carried by their troopers to a more functional fifteen to forty pound The Army, unlike the Mexicans and the cowboys, never range. adopted the sensible Indian practice of maintaining a reserve supply of horses for their dog soldiers. The absence of such a remada system, as shown in Hood's account of one fire fight, meant that each trooper had to depend upon his one animal which, in turn, required over eight hours of rest per day.134 Thus, to many cavalry officers, orthodox concepts of mounted warfare, as officially adopted by the United State Army, were inappropriate for the requirements of frontier security duty. Colonel Randolph B. Marcy succinctly stated the problem of inappropriate and largely unworkable tactical theory being out of line with tactical reality on the western prairies when he wrote:

The art of war, as taught and practiced among civilized nations at present day, is no doubt well adapted to the purposes for which it was designed viz... The organization of armies acting in populated districts, furnishing ample resources, and against an enemy who is tangible, and makes use of similar tactics and strategy. But the modern schools of military science are but illy suited to carrying on a warfare with the wild tribes of the plains. 135

The quaint notion of trying to spear such a swift and dauntless adversary as the mounted American Indians with a lance or sending a relatively plodding <u>cuirassier</u> waving his

saber after such a nimble foe was patently absurd. Yet that was what was prescribed by the Army's manuals on cavalry warfare. Certainly, had the Army been so inclined, it could have developed its own unique school of cavalry tactics, tailored to the requirements of the Great Plains. The Congressional opponents of the regular cavalry emphasized the value of irregular troops, unburdened by the formalities of European warfare ala the Texas Rangers, as a preferable military force for the task of Indian control. The 1833 United States Army had no active cavalry tradition for nearly eighteen years prior to the establishment of the dragoons. As Cooke effectively argued: "the service of cavalry had become with us a forgotten and unknown branch of military knowledge, something to be read of, as we do, of the Macedonian phalanx."¹³⁶ The Army's leadership, however, had dedicated the regular military establishment to the French-Austrian school and the requirements of waging a European-style war, so as to avoid further humiliation of American arms as produced by the War of 1812. There was simply no room for the official sanctioning of deviance from the orthodoxy of European warfare. After all, frontier policing was not even a military task at all but rather a necessary but onerous duty imposed upon the Army by the President and Congress. In addition, even among the hardest and most experienced of cavalry officers there existed a deep, personal commitment to military professionalism.

Thus, for example, Cooke, long a dragoon officer and eventual commander of the First Regiment, could, in the best romantic style of military writing, author a stirring tribute to the ethos of cavalry warfare of the classical tradition:

The speed of a line of charging cavalry, the aggregate of life, motion, mass, and power gives a spiritual momentum to both rider and horse.¹³⁷

The long isolated service on the Great Plains would have appeared to have been a poor incubator in which to develop American military professionalism. Indian fighting certainly provided the Army's officer corps with few if any opportunities to employ their formal skills in the art of The political necessity of maintaining numerous tiny war. forts and garrisons scattered on the western prairies was clearly not conducive to supporting a high level of morale. Colonel Marcy, reflecting a general consensus of the officer corps on this issue, vigorously attacked this practice when "The morale of the troops must thereby ((be)) he wrote: impaired and the confidence of the savages correspondingly The system of small garrisons has a tendency to augmented. discourage the troops in proportion as they are scattered, and renders them correspondingly inefficient."138 Considerable amounts of time and labor while on post had to be expended on such non-military chores as heavy construction and farming due to the financially stringent budgets passed by Congress.139 Frontier service was hard, tiring, and unimaginative work. Most garrison posts consisted of a few huts, a well and little else, situated in the main, far from any town. The privations and hardships of the frontier made Army service unrewarding and unattractive. As one army wife so plaintively put it:

Little does the casual observer of West Point know of the after existence of its graduates and their lives of exile and privation on the frontier, passed in largely seclusion from the world, a stranger to the ordinary comforts of civilization.¹⁴⁰

The arduous requirements of frontier duty were reflected in the exceptionally high rates of desertion. In any given year during the Antebellum period, as much as onethird of Army strength was lost to desertion. This was in spite of brutal corporal punishment, including flogging and branding. Field patrols offered only an occasional respite from the tedium of garrison duty. For officers, there was no formal incentive for pursuing their studies in the art of For line officers, there were few of the opportunities war. for varied and interesting careers available to engineers, coastal artillery and staff officers.141 The grueling and highly taxing nature of frontier service was painfully described by Captain Lemuel Ford, who in his final two years of frontier duty with the First Dragoons (1834-1836) saw his family for only a couple of weeks and who died due to a disease contracted on the Plains: "I am clearly of ((the)) opinion that a soldier be so disencumbered from the things of the world as to be all wasy ((sic.)) Ready to <u>March</u>, Ready to Fight and Ready to Die."142

It might seem, upon initial examination, that the conditions of western frontier security duty afforded the Army opportunities to employ the doctrine and skills of a European-style military service. Certainly the task of Indian control, with an emphasis upon highly unorthodox modes of warfare, provided no chance for the use of either classical cavalry or infantry tactics or permitted more than the infrequent employment of such key weapons as the saber or the bayonet. Yet valuable lessons of command and leadership were extracted from their long years of frontier service by Army officers. "The Dragoon regiments," as one officer stated it, "are almost constantly upon the move at the West, and the continued marching gives officers and men the practical knowledge of their duties so eminently essential to cavalry."143 The heart of a nation's war fighting system is not the particular tactical and strategical doctrines in use or the weapons which equip their soldiers. Rather, it is the constellation of social, professional, political and intellectual concepts and values that constitute the world view of an officer corps and which in turn, serves as the foundation of a country's war fighting system. Thus, it was the long, unrewarding and solitary years of frontier duty which served to create ties of fellowship and professionalism among members of the officer corps. It was precisely the isolation and insularity of frontier service that gradually converted the goal of military professionalism in the American Army officer corps into reality. The long hours spent in casual conversation, when officers "fought their battles o'ver ((sic.)), from West Point and the girls they left behind them through the swamps of Florida, the wilds of Texas, over the great plains, the mountains, on the fields of Mexico" as well as other forms of social interaction created the mortar which bonded these soldiers together as professionals engaged in a unique activity as part of a collective enterprise.144

Granted that individual enmities and personal dislikes between officers, many forged at West Point, were fueled by the smallness of the American officer corps and by the restricted opportunities for career advancement. In the main, however, military professionalism grew strongly in the Antebellum era. Of perhaps even greater importance, to the development of military professionalism were the continual proofs, provided by the various campaigns of the Army during the Antebellum period, of the essential validity of the post-War of 1812 reforms. Thus, the Black Hawk War and the Seminole War served powerfully to demonstrate the key lessons that due to massive and unwarranted political interference, the Army would have to rely on its own expertise to save the nation from foreign invasion and that in turn, reliance on the militia was dangerous and ineffectual.145 The long years of frontier duty, hampered by grossly inadequate resources and funding, further reinforced ties of solidarity among the officer corps. The ceaseless and frequently unproductive involvement of Congress and the executive branch in what the officer corps viewed as intrinsically internal military matters, further solidified the sense of collegiality among Army officers.¹⁴⁶

Part V

In 1846, the United States Army was finally provided an opportunity to vindicate its faith in military professionalism and the French-Austrian school of war. The Mexican War (1846-1848) offered the Army its first chance since the War of 1812 to field brigade and division-size units. This war can be divided into two parts. The first was the irregular war, fought in what is now the Southwest United States and California. The centerpiece, insofar as the cavalry was concerned, was Colonel Stephen Kearny's almost bloodless seizure of Santa Fe, New Mexico, and his subsequent epic march through the uncharted Southwest desert to California. Kearny, with only one hundred regular dragoons of the First Regiment, prevailed against some five thousand Mexican regulars due to highly efficient and quite unusual close cooperation with a regiment of Missouri volunteer rifles. After almost effortlessly securing his assigned target, Kearny elected to take a proportion of his command westward to the Pacific. The crossing of some twelve hundred miles of largely unmapped and exceedingly inhospitable country, without incident in three months, was brilliant proof that the United States Army had mastered the difficulties of long range western travel. While fascinating and heroic, Kearny's expedition was at best only a sideshow of the war with Mexico. The only significant application of American cavalry in this war, it was wholly lacking influence on Army tactical doctrine. The real war, to the south, was instead to be fought according to conventional tactical principles, under which cavalry would assume its proper function as an adjunct to the infantry.147

The Mexican War proper, encompassing the campaigns of General Winfield Scott and Zachary Taylor, was marked by only limited and not particularly effective use of American One crucial factor in hindering the field effeccavalry. tiveness of the regular cavalry was the notable lack of regimental unity. Neither the First, Second or Third Dragoons (the latter created by Congress for temporary war service on February 11, 1847) ever served as fully organic cavalry regiments. These units, as with the assorted volunteer cavalry formations, were habitually broken up into ever smaller detachments, doled out to various grades of field commanders when the need for mounted troops arose and when adequate numbers of horses were available. The Mounted Rifles fared much better in retaining regimental unity due

to the humiliating fact that all their mounts were lost when the transport carrying them to Mexico sank in a storm. Surprisingly, only a single company of the mounted rifles ever served on horseback in this war, despite the huge numbers of mounts captured from the Mexican Army.¹⁴⁸ The volunteer cavalry units were rarely more than nuisances, having only marginal offensive combat effectiveness as horse soldiers. According to one regular cavalry trooper, Samuel Chamberlain, sounding the complaint of most dragoons, the volunteers were almost useless:

The material that these regiments were composed of was excellent... the men possessed fine... strength combined with activity, but they had no discipline, or confidence in their officers....

Their impatience of all restraint and egotism made them worse than useless on picket; while in camp, they were a perfect nuisance.149

The adversaries of the American mounted forces were highly trained, thoroughly European in their organization and tactics and superb horsemen. The Mexican cavalry numbered in the thousands, not counting auxiliaries. In comparison, the Americans never managed to muster more than six hundred troopers on horseback for any given battle. The high level of Mexican horsemanship earned their cavalry ample praise from their North American antagonists. According to Colonel Brackett, who served in Mexico:

Our people had the advantage of larger horses and heavier men as a general thing, but the Mexicans were much more agile, and would handle their horses as well as perhaps any people on earth... as the Mexicans, accustomed as many of them are to a life on horseback, and all of them feeling a pride in owning horseflesh, it did not take them as long a time to train them as it did us, who particularly those from older states, knew little or nothing about riding or managing horses.150

American mounted forces played only small, supporting roles in such key battles as Palo Alto, Buena Vista, Molino Del Rey and Mexico City. Their functions were principally ones of drudgery: guarding lumbering supply columns, serving as officer escorts and, more dangerously, hunting down the unprincipled Mexican guerrillas. Even cavalry's traditional forte, scouting, was performed by another branch of the Army--mounted engineers, with horse soldiers acting only as an escort. Aside from organizational disruption and the rough, jagged terrain of Mexico, the primary obstacle to the more innovative employment of American mounted forces lay with senior officers and their devotion to European rules of warfare. Both Scott and Taylor, by training and vocation, were infantrymen, with little more than theoretical knowledge of the use of cavalry in battle. Both officers were professionals, grounded in European concepts of tactics which made cavalry simply a handmaiden of the infantry. Where cavalry participated in major engagements, it usually fought dismounted. The general lack of troops caused the use of every available man--soldiers, Marines, volunteers and even sailors -- as infantry. While the fortunes of the cavalry arm did not prosper in the course of the Mexican War, the Army itself reaped massive benefits. With speed and dispatch, the Army had defeated a much more numerous foe on his home territory and quite distant from its supply Granted that on a contemporary scale of internasources. tional significance, the Mexican War was a rather piffling affair, it nonetheless was a considerable achievement for American arms. It was in particular, a triumph of military Scott's brilliant campaign against Mexico professionalism. City was a textbook application of Jomini's concepts to the solution of a particularly thorny military problem, which as the Commanding General himself put it, was "to compel a people, singularly obstinate, to sue for peace it is absolutely necessary ... to strike effectively at the vitals of the nation."151 Scott therefore directed the main American military effort at the Mexican capital, in classic limited war fashion, avoiding pitched battle as much as possible and having accomplished his objective, forcing the Mexicans to sue for peace.

The relative isolation of the Mexican theater of operations from the United States lessened the availability of the militia forces and correspondingly increased the importance of the regulars; or as Captain W. S. Henry put it, "I can not but repeat, that we all ((i.e., the officer corps)) feel proud that these conquests had been effected by the <u>army proper</u>." That is not to say that the volunteers were unnecessary, far from it, since the regular Army was simply

too small to have undertaken the war by itself. The volunteers, overall, thus fit into the niche assigned them by the Army's warfighting system, as auxiliaries to the regulars. However, as in the earlier frontier wars, the Army retained its strong aversion toward the citizen soldiers as less than effective in battle. The general position of the Army that "campaigning is entirely out of... ((the militia's)) line," was as once again demonstrated by the Mexican War, as was forcefully stated by Henry:

Before this war is over, the government will be forced to confess, and the volunteers freely acknowledge, without any charge against their patriotism or efficiency, that the volunteer system is one of the most outrageously expensive and inefficient way with which any government could undertake a war of invasion.¹⁵²

A more savage criticism of the volunteers was made by a then highly promising Second-Lieutenant of Engineers, George B. McClellan, reflecting a good deal of the Army's pent-up resentment at these amateur soldiers:

I allude to the sufferings of the volunteers. They literally... ((act like)) dogs. Were it all known in the States, there would be no more hue and cry against the Army, all would be willing to have a large regular army that we could dispense entirely with the volunteer system.¹⁵³

The conduct of the war and the subsequent occupation of Mexican soil was conducted with honor and integrity, "that high standard of virtue and honor", according to General Scott, "which we boasted at home."154 The Mexican War, however, was completely unoriginal in regards to the arts of war. Aside from a few percussion-capped rifles (which Scott

attempted to block from entering service on grounds of ordnance conservatism) there were no differences from the tactics, weapons and equipment used at Waterloo some thirtytwo years earlier. Moreover, there were none of the numerous problems of command and logistics that plaqued the British Army in the Crimean War to mar the Army's overall high level of military effectiveness. Of course there were still problems between the Army and the executive branch in the division of responsibility in directing the war effort; Scott and President James Polk were almost constantly quarrelling over American war aims and tactics, for example.¹⁵⁵ Measured by results, however, the American military effort against Mexico was considerably better managed than the War of 1812 fiasco. Acceptance of military professionalism thus enjoyed a badly needed and quite considerable boost from the stellar performance of the regulars.¹⁵⁶ West Point, according to Ashbel Smith, as a result of the superb performance of its graduates in Mexico, had "fought itself into favor at home; the science, skill, soldierly deportment, and valor of the graduates of the Academy have gained a great triumph over the prejudices of the ignorant among our citizens."157

The Army had thus, in the span of only thirty or so years, matured into a truly modern and capable military force. It had done so in the face of massive popular and political opposition, crippled by lack of resources and manpower and despite its long, odious and dishonorable misuse as a police force to suppress the Indians. The War of 1812 had been the nadir of the Army's prowess and reputation as a fighting force. Secretary of War Cass expressed this point exceptionally well in 1836:

We were comparatively ignorant of the state of military science and we did not fully recover our true position till we had received many severe lessons, at what expense of life and treasury need not be stated.¹⁵⁸

The efforts of the post-War of 1812 reformers -- Gaines, Macomb, Thayer, Calhoun, Scott and the others--was thus vindicated by the triumph of American arms in Mexico. While to many Americans the regular military establishment would remain tainted with the traits of decadent, aristocratic Europe and subject to obloquy and hounded with political opposition, the Army, despite the shrill cries of a few that in fact American victory in Mexico was really the rejection of European principles of scientific warfare, had won for itself a new and valid claim to be vital for national defense and an effective agent of the country's foreign policy,159 Jefferson Davis, a West Point graduate and himself a hero of the Mexican War as a volunteer officer, in a speech given as a Congressman to honor General Taylor, annunciated the apparent lessons of the conflict quite effectively when he proclaimed:

Much was due to the courage which Americans have displayed on many battlefields in former times; but this courage, characteristic of our people, and pervading all sections and all classes, could ever have availed so much had it not been combined with military science. And the occasion seem suited to enforce this lesson on the minds of those who have been accustomed in reason and out of reason, to rail at the scientific attainments of our officers... arms, like any occupation, requires to be studied before it can be understood, and from those things, to which he had called his attention, he will learn the power and advantages of military science.¹⁶⁰

This newly won sense of military honor and the potency of arms enormously increased Army morale and confidence. The final verdict on the effectiveness of the Army in transforming itself into a proper military service was best rendered by Captain Mahan, the United States' foremost military theorist of the Antebellum era. The West Point professor praised the achievements of the professional Army he had labored so long to create:

Of all the civilized states of Christendom, we are perhaps the least military, though not behind the foremost as a warlike one. A sounder era, however, is dawning upon us.... It was reserved for the expedition to Vera-Cruz, and its sequel, Cerro-Gordo, to bring into strong relief the fact, that we were unostentatiously, and almost silently becoming a powerful military state. The lesson will not be lost upon our neighbors, however slowly we, in the end, may profit by it. A shout has gone forth from the Rio-Grande, and the shores of the Gulf of Mexico, which heard on the Thames and the Seine, has resounded along the far-off shores of the Baltic and the Black Sea, and will reach farther Id., bearing with it a significance that no prudent statesman will hereafter affect to misunderstand. What are the military resources of this great republic is no longer a question; a more thorough organization is alone wanting for their complete development.161

Chapter IV

JEFFERSON DAVIS, THE 1856 MILITARY COMMISSION TO EUROPE AND THE MINIE BULLET RIFLE: THE REAFFIRMATION OF THE FRENCH-AUSTRIAN SCHOOL IN AN ERA OF TECHNOLOGICAL AND SOCIAL CHANGE

Part I

The clear victory for military professionalism won by the United States Army in Mexico was translated into tangible gains for the nation's military service in 1853. Congress, at the request of President Franklin Pierce's newly inaugurated administration, approved the largest single increase in Army strength since the War of 1812. In addition to four infantry regiments, two new mounted units were added to the Army's order of battle, the First and Second Cavalry Regiments. Numerically, the strength of the Army expanded from approximately eleven thousand men to over sixteen thousand. For the first time since the War of 1812 the United States Army possessed sufficient numbers of troops to free it from dependence upon the militia save in the largest of conflicts. While the Army was still "inferior to the best armies of Europe," according to the former Secretary of War Joel Poinsett, the 1855 expansion signaled a new era enhanced military effectiveness as well

as new political enthusiasm for military professionalism.¹ In a very clear fashion the nation's political leadership, at least for the moment, had conceded Poinsett's conclusion:

...that no nation, whatever may be its resources and money, can long carry on an aggressive war with volunteer forces, or with a majority of its troops composed of volunteers who have, for the most part, to be drilled and disciplined in the presence of the enemy.²

Succeeding John C. Calhoun as the leading political advocate of a professional military service, was the new Secretary of War, Jefferson Davis. An 1828 graduate of West Point, Davis had soldiered some seven years with both the infantry and the First Dragoons on the western frontier. In the Mexican War, Davis had served with distinction as commander of the volunteer Mississippi Rifles. Davis was an ardent and influential proponent of the regular Army and of military professionalism. A student of military theory and history, Davis's personal philosophy of the art of war was totally Jominean and French-Austrian in character. In his 1854 Report as Secretary of War, Davis succinctly expressed his faith in military professionalism when he formally attacked the opponents of the regular military establish-"It has been stated... that if in 1831 a small ment: mounted force had been at the disposal of the War Department, the Black Hawk War might have been prevented; and ... in 1835, if a few additional companies had been sent to Florida, the Seminole War would have not occurred."3

Under Davis's exceptionally effective administration, numerous significant improvements were made in Army weaponry, force structure and its preparation to wage war against a European would-be adversary. Davis compelled adoption of the 1856-pattern Springfield Rifle of the new Minie bullet type over the strong objections of some senior officers. To accompany this new weapon, a major revision in the infantry manual was authorized by Davis. Moreover, the first pay raises in twenty years were authorized as well as the introduction of a more modern and spiffier uniform, both items aiding the general uplift in the morale of the Army. Fortress design was overhauled as well, during Davis's tenure as Secretary of War, to bring American practice in line with the latest European advances. One of Davis's more whimsical experiments consisted of the formation of a camel corps, patterned on French Algerian experience, for patrol duty in the Southwest.

The establishment of the first American regular units to bear the designation cavalry, complete with the revived use of yellow facings and stripes on their uniforms, was also undertaken in these years. The first and Second Cavalry Regiments were the personal favorites of Davis, and were intended to be elite units. Granted that the less dashing Corps of Engineers and the Corps of Topographical Engineers ranked at the top of the list of career positions and that the cavalry was at the bottom. Yet the tradi-

tional, aristocratic lure of gallant troopers and powerful steeds, as well as Davis's personal involvement in the selection of officers for these regiments, led many promising men to join these units. Moreover, there was a distinct Southern bias to the officers of these two regi-Officers such as Lieutenant-Colonel Joseph E. ments. Johnson (general CSA), Captain George B. McClellan (general USA), Lieutenant George H. Stuart (general CSA) and Lieutenant James E. Stuart (general CSA) were among the staff of the First Regiment; the Second, in turn, included in its ranks such future luminaries as Colonel Albert Sidney Johnston (general CSA), Lieutenant-Colonel William J. Hardee (general CSA), Captain George E. Stoneman (general USA) and Lieutenant Fitzhugh Lee (general CSA). The predominance of Southern officers in these regiments would later serve as "evidence", during the Civil War, that Davis was in league with some fiendish cabal to create surreptitiously a future confederate mounted service.⁴

The immediate tactical role of the First and Second Cavalry lay in conventional Indian control duty in the Southwest and Texas. These two new regiments, plus the additional infantry units and the camel corps were the operational component of Davis's new, so-called desert plan of pacifying the western frontier. Patterned after Marshal Thomas-Robert Bugeaud's brilliant plan for the French conquest of the Algerian interior, Davis's new program for

suppressing Indian hostilities was intended to correct many of the deficiencies in the Army's earlier stratagem of frontier control. The cornerstone of the great desert plan was the abandonment of numerous small garrisons and the concentration of the Army's troops in large, strategically located forts. The problems of morale, isolation and poor logistiical support were simultaneously dealt with by setting major Army garrisons near towns, and on major water transport routes near the edges of the western frontier. The addition to the Army's mounted resources was of vital importance; the desert plan required extensive patrolling and swift and efficient retaliatory action for Indian incursions. This new plan was thus the final abandonment of the static defense system implemented in the immediate post-War of 1812 years, during Jacob Brown's tenure as Commanding General. In turn, the great desert plan would serve as the foundation of the Army's Indian control policy for the remainder of the century.⁵ On the higher level of Army planning and organization, the First and Second Cavalry conformed closer, in theory at least, to European mounted warfare doctrine than had the earlier dragoon regiments. As a former cavalryman, Davis penned an authoritative and informed explanation of the organizational nature of the new mounted regiments and in turn, a withering criticism of earlier Congressional interference in internal War Department and Army matters, as to the composition, mission and equipment of horse units.

The cavalry force of our army being all required for active service of the same kind, there appears no propriety in making a permanent distinction in the designation and armament of the several regiments; it is therefore, proposed to place all the regiments on the same footing in these respects, and to leave it in the power of the executive to arm and equip them in the manner as may be required by the nature of the service in which they be employed.⁶

Davis's policy statement as to the nature of the new cavalry regiments and his sharp rebuke of Congressional involvement, as for example in the mounted rifles, in internal Army matters, had several aspects. The emphasis on unit rationalization into a few specific types (which for the Army's horse units was finally achieved in 1861 when Congress formally redesignated them all as cavalry) was clearly one of Davis's objectives. The specific form of the First and Second Cavalry as all-purpose mounted units, as opposed to being light, heavy or dragoon, was not however intended to improve the effectiveness of the Army's horse soldiers in Indian fighting. As with both the mounted rifles and dragoons, the cavalry followed the usual dismounted, informal tactics of Indian fighting. The emphasis on utility reflected, instead, the then latest fad in Europeanstyle cavalry units. Recall the debate between the proponents of heavy and light cavalry over first, which types of mounted units would be required in future hostilities, and secondly, whether advances in firepower rendered the cuirassiers and thus the use of shock as being

obsolete. This rather lively debate peaked late in the 1860s, when cavalry traditionalism reasserted itself. Thus the organizational character of the First and Second Cavalry reflected the perspective of those cavalry experts championing flexibility over tradition; mounted units which could effectively serve all three roles as light, heavy, and dragoons.⁷

On a broader level, that of national war policy, Davis's viewpoint was representative of the new, assertive sense of professionalism then being articulated by the officer corps. The growing sense of group identification among members of the officer corps was strongly articulated by Davis in direct criticism of Congress of overstepping its authority when it had involved itself directly in determining internal military policy matters, such as weapon types or uniform design, which properly were within the jurisdiction of the War Department and the executive branch. In this respect, Davis vocalized a far more direct and pungent critique of Congressional encroachment onto the authority of the executive branch in determining the particulars of national military policy than had earlier been expressed by The officer corps' new influence was the result of Calhoun. Calhoun's administrative reforms, the bureau system, which was thus beginning to assert itself in military policy formation. Thus, through the bureau's superior knowledge of military matters, the determination of the particulars of

Army equipment and organization, swung almost permanently to the executive branch. 8

Part II

The 1850s background to Davis's Army reforms constituted an era of considerable change in not only military affairs, but also technology and society as well. On the broadest level were major changes in the nature, quality and quantity, of economic output. The enormous increase in the production of iron and the emergence of highly efficient steel manufacturing processes resulted in immediate changes in the nature of weapons production. The use of steel not only allowed for considerably higher levels of weapon performance, but also facilitated standardized and easily repairable machined parts which significantly reduced the costs, in both time and money, entailed in the manufacture of arms. Artillery, for example, was virtually reborn as a weapon system. No longer were clumsy reinforcing bands needed around the muzzle; unit construction permitted the use of much stronger charges of powder, hence greater range and the use of larger and more potent projectiles.⁹ The development of mechanized, factory assembly lines for the production of weapons, allowed for unheard of speed in equipping large numbers of troops with the tools of war.¹⁰ The railroad worked to dramatically multiply the quantities of goods and men which could be moved from one area to The speed of army movement, as regards the number another.

of miles per day, escalated from a maximum of sixty to eighty miles by forced march to between one hundred and two hundred and fifty by rail. And a unit transported by rail suffered none of the debilitating effects to unit efficiency and fighting power which followed a forced march.¹¹ Steam power also revolutionized ocean transportation. Ships were no longer captive to the currents and winds, sailing times dropped by as much as half and the size of cargos expanded. Steel in turn was being employed in the construction of larger, faster and more durable vessels than had heretofore been possible.¹² Communications were transformed as well, due to the invention of the telegraph. For the first time in history, senior army commanders could immediately and effectively direct military formations dispersed over distances of hundreds of miles.¹³

These new technologies were known to military leaders; the problem, however, was a lack of perception of how deep the impact would be on the practices of war. Moreover, except for the Prussians and their centralized staff command system, no army of this period possessed one central body to oversee and manage significant technological change. The series of innovations, which converged into a new industrial order in the 1850s, was not, however, without precedent. The agricultural revolution had by the end of the Eighteenth Century caused an enormous increase in fodder and food production. Consequently, there was a dramatic increase in the ability of nations, during the Napoleonic Wars, to support armies of unprecedented size, hundreds of thousands in number, without the massive damage, as in the previous Thirty Years War, to the agrarian resources of those countries.¹⁴ Similarly, the considerable improvement in road construction in conjunction with the widespread building of canals had significantly increased the mobility of armies and the capacity of logistic nets during these wars. Furthermore, the enormous increase in army size and the corresponding growth in mobility occasioned the development out of the quartermasters corps the first general staffs in European military history.¹⁵

The most immediate effect on military theory and planning lay in the field of artillery improvement. The 1850s seemed to be the beginning of a new era in military tactics in which artillery would finally come to dominate The Queen of Battle only began to assert the battlefield. herself as a dominant weapon during the Napoleonic Wars, as the French Imperial Army, saddled with ever more poorly trained soldiers, shifted the tactical emphasis of battle from the bayonet to the cannon. The new iron and steel rifled cannon of this era could throw a shell the astounding distance of over two thousand yards compared to the rather feeble eight hundred or so of the smoothbores. Accuracy was greatly improved as well, with the introduction of the new weapons. The enthusiasm of the artillerists was in no way

dampened by the then little-understood fact that there was no way of directing long range cannon fire on land. Traditionally, smoothbore guns, characterized by relatively long range and flat trajectory, were unlimbered close to the forward edge of battle to be used as scatterguns. Such weapons could be directed very effectively against line-ofsight targets such as fortresses. Except for a small number of howitzers, featuring short range and high angle fire, little attempt was made to deliver indirect fire on enemy troops shielded by protective cover or to direct counter battery fire against enemy artillery. The problem lay in being able to observe the enemy's positions without the obstructions of smoke and obstacles and in turn being able to communicate quickly this information to the gunners. Artillerists for the previous three hundred or so years had developed their art on the basic premise that their target would be visible; the difficulty was therefore how to develop a system of indirect fire control by forward observers, with more effective field communication methods than flags, bugle calls or messengers, and in turn, having the gunners accurately deliver fire out of sight of and miles from their target. At sea, in contrast, with wide expanses of flat, open water, long range fire was not only possible but was in fact, standard for naval gunnery by the mid 1850s.16

The aspect of the new arms technology which would have the most immediate impact was the less impressive but vastly improved rifled musket. For one hundred and fifty years the primary weapon of the infantry had been the smoothbore musket of .54 to .75 caliber, firing a lead ball three guarters of an inch or so in diameter, weighing nine to twelve pounds and some eleven feet in length. Between forty and fifty yards, the smoothbore musket was a truly terrifying weapon. The hail of lead generated by a line of musketeers at this range hit with the impact of a huge shotgun, inflicting fearsome casualties. At greater distances, however, effectiveness greatly declined. One British ordnance expert, Colonel Henger, in 1814, expressed quite well the widely understood limitations of the smoothbore musket when he stated:

A soldier's musket, if not exceedingly ilbored ((sic.)) as many are, will strike the figure of a man at 80 yards... but a soldier must be very unfortunate indeed who shall be wounded by a common musket at 150 yards, provided his antagonist aims, and as for firing at 200 yards you might as well fire at the moon.¹⁷

As with all smoothbore weapons, the ball once fired, followed a trajectory that soon became excessively curved and erratic. Consequently, therefore, this severely limited the range of these weapons. Moreover, a smoothbore musket with an attached bayonet could not even be aimed. There were no rear sights and the primitive front sight (usually no more than a small knob of metal at the end of the barrel) was completely obscured by the bayonet socket ring. Accuracy of this weapon was therefore minimal; only an average of between 0.2 to 0.5 percent of all rounds discharged per engagement, or about one out of every thousand or so, actually registered a hit. In effect, therefore, in order to kill a man in an attacking infantry column, one had to fire up to seven times an average man's weight in lead Hence, in order to maximize infantry firepower, the balls. troops of the line were arrayed in tight, compact formations and ruthlessly trained to function like well-programmed automatons. The weapon itself possessed many possible dangers to the soldier using it. The flash of the ignition powder in the pan of the weapon not only obscured vision, it could, on occasion, even blind a man. Slight variations in the quality of powder could cause significant changes in the force of the recoil or even cause the weapon to explode. Frequently, in the heat and confusion of battle, men forgot if the weapon had in fact been discharged, reloaded and in turn caused the double or even triple loading of the piece, the excess charges causing the weapon to explode. And if a soldier were a mere foot ahead of the firing line, his eardrums would be instantly ruptured by the discharge of a volley. Furthermore, the soldiers had to move in formation, to within one hundred yards of the enemy before fire was normally commenced, exposing themselves to the full weight of a counter volley. Infantrymen, first and foremost, had

to be experienced and highly disciplined for Eighteenth Century tactics to work. For men to stand fire under such circumstances and in turn to be calmly able to receive the still more frightening bayonet charge, when they were dispassionate mercenaries, frequently dragooned into service, demanded the most brutal of corporal punishment. Consequently, the terror of being caught as a deserter had to outweigh the risk of staying in formation.

From a design standpoint, the smoothbore had other significant failings as a weapon. The exposed panner meant it could not be used in inclement weather. And it was unreliable as well; out of an average 6,000 rounds fired from flintlocks, there were an average of 922 misfires or one in each six and a half rounds discharged.¹⁸ There were, however, no better weapons available to European-style Tactically the one hundred and sixty years prior to armies. the Civil War can be defined as a process of experimentation and refinement, of finding the best means of making do with the smoothbore in battle. Volley fire was expressly devised so as to concentrate the greatest number of projectiles at a The fundamental principles of effective specific target. volley fire were well described by Eighteenth Century military writer, Bland Humphrey, an accounting which would remain valid through the Civil War:

Draw your enemy's fire if you can, and if your battalion still advances you must win...it being certain that when troops see others advance, and going to pour in their fire amongst them when

theirs is gone, they will immediately give way, or at least it seldom happens otherwise.19

The solution to the numerous and manifest deficiencies of the smoothbore musket lay in the development of the military rifle, "the most formidable description of small fire-arms yet known," according to Lieutenant Richard Nicholson Magrath of the British Army.20 The problems in making the rifle a truly practical replacement for the smoothbore musket, were, however, complex and extremely technical.

The rifle had been in use, principally as a sporting weapon, since the early Sixteenth Century. The distinctive grooves (or rifling) carved into the interior sides of the barrel, served to give the rifle ball greater velocity and The result was a considerable higher angle of trajectory. improvement in both accuracy and range relative to the smoothbore musket. The famed Kentucky or Pennsylvania rifle of Davy Crockett was accurate up to four hundred yards while the British Baker rifle, used in the Peninsular Campaign (by the rifle brigade) could do work up to three hundred yards. Mass use of rifles by armies, however, was simply not The overriding technical problem was the slowness feasible. of reloading the weapon. Whereas a smoothbore musket, in the hands of an average infantryman, could be fired at the rate of three or four rounds per minute, the rifle, at best, could be discharged no more than once very two minutes. The difficulty in reloading the rifle arose from the fact that

the soft lead ball had to be forcibly rammed down the The rifling, to which the ball was forced to barrel. conform by use of the ramrod and thus causing the characteristic spin of the projectile when fired, worked, however, as well, to obstruct passage of the round down the barrel. In fact, it was not uncommon for riflemen to resort to the use of hammers to pound the ramrod home when the ball became stuck in the barrel. A second major problem with most rifles was that a bayonet could not be attached. The dangerous combination of an exceeding slow rate of fire and the lack of a bayonet caused the rifle to be loathed by most infantrymen. Still another major failing of the rifle lay in the poor fit between the rifling and the ball (since both were handmade, no standardization was possible, further imperiling performance). This resulted in the gas created by the ignition of the powder charge being able to escape, reducing velocity and range, and in turn causing the weapon to foul far faster than a musket. Thus, after the discharge of only a few rounds, the barrel became so obstructed as to cause a sharp decline in range. The combination of technical problems, the active hostility toward the rifle by most line soldiers and the resulting need for highly trained and quite expensive specialized units to use this weapon properly, worked against the wider employment of the rifle as a combat weapons.21

The first major technological improvement in infantry weaponry since the development of the flintlock musketbayonet combination was the invention of the fulminate of mercury percussion cap. In 1807 Reverend Alexander Forsyth of Scotland patented use of this substance as the starter charger for the musket; permitting the detonation of primary charge by striking instead of by ignition. Only in the 1830s, however, was a practical means found to package the fulminate of mercury. The use of an enclosed copper cap containing a small amount of this material allowed for the first practical use of muskets in rainy weather since no powder was exposed to the elements. Variously invented by any number of persons, including the celebrated British gunsmith firm of Montan, Egg and Purdy, by Colonel Hawken and by Joshua Shaw, a British artist resident in Philadelphia as early as 1814, the percussion cap dramatically reduced the number of misfires and thereby improved accuracy or at least combat effectiveness. For every one thousand rounds fired, the number of misfires fell from four hundred and eleven to four and a half and the number of hits rose from an average of two hundred and twenty to three hundred and eighty-five. Adoption of the percussion cap by military services was, in spite of its clear superiority, exceedingly In part this was a function of cost, the expense of slow. converting existing weapons to the new system; in part, the traditional conservatism of ordnance bureaus and, in part,

the organizational gulf between line officers and staff weapon-experts. The United States, for example, only ordered the complete change-over to the percussion cap in 1848 and then, at a virtual snail's pace. While percussion cap was a significant improvement in the capability of the smoothbore musket it did not, however, solve the major problems of limited range and accuracy.²²

The key to any successful improvement in the rifle lay in the development of a practical cylindro-conical or oblong bullet, to overcome the problem of slow loading time for this weapon. Various experimenters, both military and civilian, labored on a solution. The ideal form of such a new rifle would have been a breechloader, provided that some form of effective sealer could be applied to the breech to prevent escape of propellant gasses. Only Prussia aggressively moved to develop a breechloader as its primary service weapon. The famed Prussian needlegun, perfected in the 1840s but only issued to line troops in 1851 for security reasons, was the first massed-produced military The weapon, however, was far too heavy as was its rifle. projectile, which due to a vastly higher rate of fire, created severe problems, for the first time, of ammunition Nonetheless, the needlegun possessed an excellent supply. effective range of eight hundred yards and like all breech loaders, and quite unlike the smoothbore musket, could be reloaded from the prone position.²³ The United States Army

flirted with the use of the Halls rifle and carbine for some forty years prior to the Civil War. Despite the weapon's clear superiority in official ordnance tests and the enthusiasm of most line officers who came into contact with the Halls weapons, the Ordnance Bureau steadfastly refused to authorize large scale production of this firearm.²⁴ Two principal objections were marshaled by traditional ordnance experts against the breechloaders; first was the issue of whether such a weapon could bear up in the field, in the hands of poorly educated soldiers. It was feared that, "No breach-loading weapon can stand the wear and tear of a campaign, and the careless and awkward usage of the soldier."²⁵

The second objection was drawn from tradition and the use of the flintlock musket for the previous one hundred and fifty years:

If by breach-loading... it was possible to fire ten or twenty times a minute, the result would be a great increase in noise and smoke, with no more effect [than a smoothbore musket].²⁶

The combination of military and fiscal conservatism forced most inventors to follow the so-called French-Belgium solution: using the existing format of the musket to make a better rifle. The culmination of these labors was the inaccurately labeled Minie "ball" rifle. The technological breakthrough of Captain Claude Etienne Minie, of the French Army, was the use of a pillar in the breech of a muzzle loading rifle. This device was driven by the force of the

detonation of the percussion cap into the base of the bullet so that it would cause the latter to expand into the grooves of the rifling. In turn a cup was placed at the base of the bullet which the pillar struck; it was this cup, in conjunction with the discharge of gas from the powder explosion, instead of the earlier method of ramming, which forced the projectile into the rifle grooves. The United States Ordnance Bureau quickly devised a superior version of the new Minie-bullet. The improved projectile used a steel stem or lige, attached to the base of the bullet, which worked "as a wedge to spread out the ball" and thereby causing it to assume the shape of the rifling when fired.²⁷ The key advantage was a greater conformity of bullet to rifling and a corresponding reduction in the loss of propellant gas. The effectiveness of these new weapons was astonishing. Clearly, as Captain Emric Szabad pointed out, "the new firearms present...a most formidable apparatus of destruction, both from their precision and wide range...."28 Effective range mushroomed from sixty or one hundred yards to eight hundred or more; reasonably skilled shooters were assured good accuracy with some models up to thirteen hundred yards. Furthermore, the use of pre-packaged paper cartridges (to be replaced in only fifteen years by the modern projectile-propellant enclosed bullet) served to increase the speed of reloading the weapon. Therefore, as

many as twelve rounds could be fired a minute. And it could be used under almost all weather conditions.²⁹

The basic tactics of battle, as practiced by armies on both sides of the Atlantic, in the years prior to the Civil War, as succinctly described by General Henry Halleck in 1861 were based on the technological limitations of smoothbore weaponry.

The attack is first opened by a cannonade, light troops are sent forward to annoy the infantry, and if possible, to pick off his artillerists. The main body then advances into lines ((i.e., deployment from column to linear formation)); the first displays itself in line as it arrives nearly within range of grapeshot ((about 200 yards)); the second line remains in columns of attack formed in battalions by division at a distance from the first sufficient to be beyond the reach of the enemy's musketry, but near enough to support the first line or cover it if driven back. The artillery, in the meantime, concentrates its fire on some weak point to open a way for the reserve which rushes into the opening and takes the enemy in the flanks and rear. The cavalry charges at the opportune moment on the flank of the enemy's columns or penetrates an opening in his line, and cutting to pieces his staggered troops, forces them into retreat, and completes the victory. During this time the whole line of the enemy should be kept occupied as to prevent fresh troops from being concentrated on the threatened point.³⁰

The impact of the Minie-bullet rifle and its progeny on conventional, post-Napoleonic tactics was in time to be devastating and even world shattering. Over a century of carefully thought-out military theory and hard-earned experience was effectively rendered obsolete. Shock tactics, relying on cold steel, no longer made sense. Formerly, infantry could safely approach to within one hundred and fifty yards of an enemy's line before coming under effective fire from their adversaries. Smoothbore cannon, particularly of the horse artillery variety, could no longer gallop up to within three hundred yards of opposing infantry and provide direct fire support in relative safety. Their gunners now would be easily picked off by ordinary soldiers armed with the new rifles long before their pieces could be unlimbered, let alone brought Moreover, even medium and heavy smoothbore into action. cannon, with effective ranges of no more than eight hundred yards, were well within the range of trained snipers armed with the new rifles. Cavalry charges were rendered vir-Infantry fire, from entrenched field tually useless. positions, would annihilate mounted units long before they could successfully close with their adversaries. While such difficult and harrowing facts were to be stumbled upon in time by the military services of the United States and Europe, the awesome reality of just what the new rifle could in fact achieve was, in the 1850s, largely understood only by a handful of ordnance officers. One such officer, Captain Camdus Wilcox of the United States Army, in 1859 described the startling effectiveness of the new rifles:

In service use of the improved rifle it may be confidently asserted that battles will be more destructive than formerly, a greater number of balls will take effect, it will be difficult for the solider to find himself in the presence of the enemy, and... [resulting] fire beyond the range of his present piece.³¹ Formerly, the position of the enemy could be approached to within 300 yards without experiencing much loss from the fire of the infantry. Now this fire is destructive at 1000 or 1200 yards, and well directed at 600 yards becomes irresistible. The range of the rifle, permitting battles to commence at considerable distances without great care on the part of the general, his whole line may become exposed at once to a destructive fire, the position assigned to troops not immediately engaged will require as much attention as those that are engaged.³²

Insofar as the cavalry was concerned, the effect would be to foreclose the effectiveness of shock tactics:

Formerly, cavalry could take as its position in columns of squadrons in full view of the infantry to be charged, at a distance of 40 yards, and could approach within 300 yards without experiencing much loss. At this distance it moved against ((the)) infantry, first at a trot, then gallop, and finally at full speed.... Even with the smoothbore musket, the cavalry charge against infantry, to be made with a probability of success, had to be in general proceeded by the fire of artillery; or the infantry must have been already exhausted or demoralized from its contest with other arms.... Under the existing conditions of the infantry armament, cavalry will be within its sphere of action at 1200 or more yards, and as it approaches nearer, the fire will become more and more destructive. 33

The foundation of Captain Wilcox's conclusion was a series of ordnance tests, first undertaken in Great Britain and later duplicated by every leading power, including the United States, with the new infantry arms. The 1855 and 1856 Hythe trials were conducted with the new English Enfield rifled musket, with which, according to Captain Sazaband, "a tolerably good rifleman will now fire with effect at 600... ((to)) 800 yards."³⁴ The 1855 test pitted twenty-seven infantrymen against a theoretical infantry column, firing of the guns being carried out at five hundred and fifty yards (or the tail of the column) and at two hundred and twenty yards (the head). Within four minutes the infantrymen had succeeded in decimating their imaginary foes under fairly realistic battle conditions. And in 1856 a similar test was conducted against a theoretical artillery battery at a distance of eight hundred and ten yards, resulting in complete destruction of the unit in only three These tests were clearly devastating in their minutes. results on the effectiveness of conventional tactics. They were also either ignored or even incomprehensible to most military leaders. Firing at targets was one thing; firing at real adversaries, capable of returning fire was another. Moreover, there were significant problems of perception as regards the meaning of the term "firepower". The criticism of the breechloader, regardless of whether it was capable of being fired ten or twenty times that of a musket, stated above, was characteristic of most military thinking of this The comprehension of officers as to the effect of period. concentrated fire was expressed usually as the weight of the volley or the number of projectiles discharged. What was absent was any real understanding of the effect of multiplying the rate of discharge and thus creating zones of fire. Precisely the same lack of comprehension blocked the later adoption of the machine gun, in large numbers, prior to World War I.35

The great master of the French-Austrian school of War, Baron de Jomini, initially examined the weaponry with trepidation, as to the potentially grave consequences on the process of military science in civilizing warfare:

The means of destruction are approaching the perfection with frightful rapidity. The Congreve rockets...the shrapnel howitzers, which can throw a stream of canister as far as the range of a bullet, will multiply the chances of destruction, as though the hecatombs of Eylau, Borodino, Leipzig, and Waterloo were not sufficient to decimate the European races.³⁶

In its first, limited employment in the Crimean War of 1856, the Minie-bullet rifle's impact was largely negligible. And in the 1859 War of Italian Unification, the French trounced the Austrians with the bayonet, instead of exploiting the capabilities of their new rifles. Jomini, along with most other officers, concluded that there would in fact be no telling affect on battle as a result of the new weapons:

The improvements in firearms will not introduce any important change in the manner of taking troops into battle, but that it would be useful to introduce into tactics of infantry the formation of columns by companies, and to have a numerous body of good riflemen or skirmishers, and to exercise the troops considerably in firing.³⁷

Thus there would be little direct affect on tactics by the Minie-bullet rifle, save for a slight increase in the importance of sniper fire. The formal response of the United States Army to the Minie-bullet rifle was the issuance of a new manual of infantry tactics. Major William Hardee, at the direction of Secretary or War Davis, undertook a limited revision of General Scott's translation of the official 1836 French manual of infantry tactics. The changes introduced by Hardee were relatively minor. Of note were the introduction of two new commands for the movement of infantry; the double quick time (ninety steps per minute) and the run (120 steps per minute). The greater exertions required for these evolutions earned Hardee's tactics the sarcastic label of a "Shanghai fire drill" from both officers and soldiers.³⁸ In part, the lack of substantial change in infantry tactics was due to the problem of controlling troops in battle. In the heat of combat and the general din of war, auditory signal devices such as drums and bugles were largely useless. Alternative methods such as runners, flags or heliographs were equally unsuccessful.39 Thus, prior to the development of the radio, small unit tactics as practiced today were highly impractical; troops command was still premised on the Frederickian concept of soldiers as mercenary robots. Loss of control over individual units, it was thus feared, would result in wholesale desertion while under fire.40

On a deeper level than the mere technical aspects of infantry tactics, were the powerful restraints of tradition and experience of aristocratically oriented armies. Thus Jomini, with complete confidence, could conclude that in the end, regardless of the greater lethality of the Minie-

197

bullet rifle, orthodoxy would prevail, as before, on the battlefield:

In spite of the improvements of firearms, two armies in battle will not pass the day in firing at each other from a distance; it will always be necessary for one of them to advance to the attack of the other.

That victory may with much certainty be expected by the party taking the offense when the general in command possesses the talent of taking his troops into action in good order and of boldly attacking the enemy, adopting the spirit and quality of troops...to his own character.⁴¹

Fundamentally, therefore, understanding of just how potent the impact of the new rifle could be on orthodox tactics was lacking among most officers of this period. Simply put, it meant comprehending the fact that the new weapon had more than twice the rate of fire of the old one, with at least six times the effective range, which could be used in all weather conditions and was machine built, at very little expense and in vastly greater numbers than its Granted that the actual range at which most predecessor. soldiers could be reasonably expected to aim and hit a target was about two to four hundred yards, yet the very fact that a common infantryman could now actually pinpoint his fire at such a range was still a great change from the old smoothbore musket.42 An even greater problem of perception for traditional military leaders involved the concept of firepower, of the effect of the rapid discharge of many weapons in a confined space. Thus, for example, the quite typical assessment of Dutch cavalry officer J. Roemer,

a traditionalist in the field of mounted warfare doctrine, of the general lack of impact of the new rifles on battle tactics:

Infantry must...depend wholly on its fire, it has time to deliver only two volleys and these with largely the power to cripple every sixth horse. Experience shows that the effect of musketry is very trifling at more than three hundred yards and within this distance it is not prudent to try more than two discharges ((i.e., before the cavalry descended upon the infantry's position.43

As late as 1868, after making a thorough study of the American Civil War, Lieutenant-Colonel George T. Denison, of the Canadian Army and one of the most progressive and reform-minded cavalry officers of his day, could just as easily misgauge the impact of the rifled musket on mounted tactics:

From 800 to 400 yards cavalry can advance at the trot in about one minute and a quarter. In that time some six or seven shots may be fired, but practically with no effect, the rapidly changing distances, the difficulties of guessing the proper elevation to strike a moving body, the necessity of having the sights accurate, will do away with much danger from these shots. From 400 to 100 yards--300 yards at a gallop will take half a minute, two shots can be fired in this time, leaving one for the last hundred yards, which can be run over in ten seconds.⁴⁴

The problem with these calculations is that they lacked understanding of the impact of volume of fire. A single rank formation of a cavalry company covered some three hundred yards. For two minutes or so it could be expected to be under concentrated infantry fire, from say an infantry company. Assuming a reasonable rate of fire of six rounds per minute, a total as high as twelve hundred projectiles would be placed into those three hundred yards occupied by two hundred men and an equal number of horses. In turn, a bullet, when fired, travels at a speed of between eight hundred and five thousand feet per second, far faster than any horse. The resulting zone of fire would be such as to destroy the cavalry company or at least render it <u>hors du</u> <u>combat</u>. Moreover, the infantry would be deployed in the protective square formation or, as was increasingly the fashion, entrenched or positioned between defensive cover, further reducing the cavalry's potential effectiveness.

Aside from the lack of understanding of the effect of tremendously increased firepower, there were other intellectual problems associated with the adaptation by Nineteenth Century armies to these new weapons. Take for example the deceptively simple problem of how to train a soldier to "aim" his weapon. The basic pattern of using small arms of military purposes had been by volley. With an attached bayonet it was simply not possible to line the barrel of the piece with a desired target. Secondly, the very limited range of the smoothbore musket ruled out the use of long range fire. Finally, the paramount emphasis in infantry tactics on shock and the use of cold steel, reduced engagement of foot soldiers to short range, hand-to-hand engagements. Targeting a firearm was a matter left to the sportsmen and the hunter; many European light infantry units, in fact, were, as in the case of German jaegers, former woodsmen recruited for their superior marksmanship. Soldiers were almost never given any instruction in how to direct their fire accurately. Since the infantry fire had been, for several centuries (at least as far back as the Fifteenth Century and the decline of the crossbow) equivalent to the scatterlike fire of a shotgun, there were thus no immediate historical examples of mass aiming of weapons to be drawn upon. Notice the repeated assertions of the authors above that the greater speed of fire would be negated by the inability of the soldier quickly to aim his Putting aside the issue of volume of fire, it is weapon. instructive to understand how a weapon was aimed in this Target weapons featured elaborate sighting systems period. while hunting firearms relied upon the experience of the shooter. Basically, one selected a target, determined range and speed of movement, if applicable, and then carefully sighted and fired. Such methods were necessarily too complex and to slow for use in combat, save by highly specialized soldiers. Only gradually would armies begin to master the techniques by which groups of soldiers could The modern system of speedily identify and hit targets. combat aiming began to be experimented with in the 1860s. Essentially the rifle is treated as an extension of the person, it is thus pointed at the center of the desired targets and the weapon leveled so the bullet will strike about six feet above ground. In effect, therefore, the soldier shoots as if he were making a bayonet thrust. Though some difficulties as directed-firing by troops in battle seemed insurmountable, rendering the superior range of the new rifles useless, a few ballistic experts were already attempting to solve the problem. According to Captain Wilcox, the future promised a revolution in how a common soldier would manipulate his weapon in combat--the shift from volley and bayonet to firepower and controlled shooting:

He will be inspired with more confidence knowing the range and accuracy of his arms. At great distances he will no longer fire by hazard, but will use his elevating ((i.e., aiming)), at short distances, knowing the power of his rifle, he will fire with the utmost coolness, and with a certainty the smoothbore and round ball could never inspire.⁴⁵

The Industrial Revolution was, in addition to profound changes in technology, causing as well, considerable alterations in the composition and orientation of civil society that was to affect greatly the conduct of war. The Minie-bullet rifle was not simply a matter of improved hardware. As the question of aiming shows quite clearly, an intellectual as well as a social revolution in military science and organization was needed to exploit fully the possibilities of the new arms technology. Guilbert, in the 1760s pioneered the column as the solution of the complexities and failings of Eighteenth Century linear tactics. The intellectual breakthrough and in unison as opposed to the earlier method of starting each movement from a fixed point and defining it as an end-to-itself. It was only until the French Revolution and the immediate need to convert untrained citizens into soldiers that Guilbert's concepts could finally be exploited to the fullest and in turn, under Napoleon, destroying the fundamental Eighteenth Century maxim that one army could not destroy another.

Similarly, the basic revision in the science of war made possible by the Minie-bullet rifle was one which required a massive redefinition of military theory and organization, which transcended such relatively mundane matters as increased range or firepower. Rather it offered the immediate end to the Frederickian tradition of soldiers as mere robots. The weapon required the use of looseskirmish-order tactics in place of tight, disciplined formations. Neither exposed linear or column formations, designed to accommodate traditional volley fire and the bayonet charge, were practical against the fire of the Minie-bullet rifle. Even with such modifications as those developed by Hardee to conventional infantry tactics, of increasing the speed of movement, there was simply no way to close with an adversary without suffering massive casualties from his fire. To disperse men on the battlefield, however, demanded considerably more than simple tinkering with the infantry manuals. As shown by the French Revolution, effective soldiers could be trained in Guilbertian tactics

in about eight weeks; the Minie-bullet rifle, in turn, further speeded up training time.

The emergence of large middle class, urban populations and the development of national political culture on both sides of the Atlantic was as well rendering the principles of limited warfare anachronistic. The idea of war fought for limited gain by competitive princes, with small professional mercenary forces was increasingly out of line with mid-Nineteenth Century society; the Crimean War, for example, with popular involvement in the war effort by ordinary citizens and coverage in the newspapers was a portent of still greater change. The new style of tactics would require a willingness to trust the initiative of individual soldiers. Men would thus have to be led, not driven into battle, and non-commissioned officers would have to be redefined from brutal task masters to team leaders. The armies of the trans-Atlantic military community, save for Prussia, however, continued to plan and wage war as it had been done for the previous one hundred and fifty years.46

Part III

The 1850s were in the United States, as well as in Europe, an era in which change in the military arts was beginning to be officially analyzed. Two major technological advancements, steam powered ships and the new rifled naval artillery threatened at once to sweep aside the twin

pillars of the Calhoun-national war policy. For the previous forty years the basic war-planning assumption of the Army had been that a minimum of three months was necessary for a European power to transport and deploy an initial invasion force; that in turn, sail powered ships could not support a force much larger than fifty thousand men for any extended period of time; and that the nation's masonry seacoast fortresses could withstand naval bombardment long enough for reinforcements to arrive. Thus. the army would have sufficient time to enlarge its forces and in turn be ready to meet a European invader. By the 1850s, none of these assumptions were valid. Steam powered ships could carry tens of thousands of men in a matter of weeks to America's shores and in turn, effectively supply them. The naval rifled cannon rendered America's coastal fortresses useless; they could now be demolished in a matter of hours, as opposed to weeks in the past. And the army was now saddled with a vastly greater country to defend, in regards to total area, including the two sea coasts.

In order to bring American military doctrine and practices in line with the latest breakthroughs in the science of war, Secretary of War Davis, in 1856, arranged for a military commission to undertake a grand inspection of the leading armies of the day. Moreover, the then on-going Crimean War offered a splendid chance to view the new hardware and doctrines of war in operation and in turn, allow the army to gather invaluable field data on the fighting capabilities of potential enemies. The officers selected for this Commission were Majors Richard Delafield and Albert Mordecai and Captain George Brinton McClellan.47 The first two officers were noted experts in their respected areas of military science (Delafield, fortifications; Mordecai, artillery), both were senior West Point professors and in their fifties. The third member of the Commission, Captain McClellan, was the representative of the mounted arm, a line officer with the First Cavalry (although his corps affiliation was with the Engineers) and barely thirty. McClellan was by no means an elder and accomplished officer in his supposed area of specialization; in fact, he had been in the saddle, as it were, for less than a year. Rather this plum was awarded to him as recognition that he was one of the most promising and gifted young officers in the Army.48 The composition of the Commission reflected the War Department's concern that rifled artillery had rendered the nation's seacoast defense system ineffective. Delafield and Mordecai had strong engineering backgrounds, equipping them to understand collateral military advances such as steampowered ships. The assignment of a would-be cavalry officer to the Commission reflected Davis's personal bias toward the The absence of any representative of the King of cavalry. Battle, the infantry, was characteristic of the general lack of interest or understanding of the Minnie bullet's considerable impact on orthodox tactics.⁴⁹

The Commission toured the principal Crimean battlefields, although most of the fighting was over by the time The Crimean War had been largely they landed in Russia. traditional in the military technology used by both sides and even more so in the tactics. Most innovations that were tried out in this war--rifled naval artillery and steam powered ships (the Minie-bullet rifle was in limited use with French and British troops, who, however, continued to employ traditional tactics) among others--had little direct bearing on the battlefield as such. Yet the crippling failures of logistics of the British Army demonstrated the need for greater improvements in military organization and logistics.⁵⁰ The military theorists of the day, while noting the interesting new developments in the tools of war, generally defined the Crimean War as unrepresentative of future wars. Jomini expressed this position quite aptly when he wrote:

This...contest between two vast entrenched camps, occupied by entire armies...is an event without precedent, which will have no equal in the future, for the circumstances which produced it cannot occur again. Moreover, this contest cannot influence in any respect the great combinations of war, or even the tactics of battle.51

Yet the Crimean War did, as one of the last, traditional examples of Eighteenth Century war, herald the beginnings of a significant alteration in the nature of war occasioned by the first arms race in history and by the effects of social and political change on the conduct of war.52

Cooperation with the French and Russian military services was difficult, but the British amicably welcomed the Americans. The return to the United States was routed through the leading European states. Thus the trio of American officers was able to scrutinize the military establishments of France, Great Britain, Austria-Hungary and Prussia, centering much of their attention on depots and fortresses. The reports that were subsequently published of their observations were of mixed quality. Delafield's Report on the Art of War in Europe and Mordecai's Military Commission to Europe were objective and professional in nature.53 Delafield concentrated on his area of specialty, fortifications, while Mordecai emphasized the latest advances in artillery and other aspects of military hardware; both authors, as well, provided illuminating intelligence on virtually every other important aspect of military science and the capabilities of the leading European armies.

In striking contrast to the reports of the two senior members of the Commission, McClellan's <u>European Cavalry</u> and <u>The Armies of Europe</u> (both of which were privately published and distributed far more widely than either of the two government-produced reports) were flaccid and exceedingly undiscriminating. What was clearly absent from McClellan's

official reports were practical and comprehensive assessments of the military effectiveness of the various cavalry services of Europe. Moreover, McClellan made little effort to evaluate the combat worth of cavalry in the Crimean War; certainly the infamous charge of the British Light Brigade merited considerable inquiry as to the future prospects of horse soldiers in battle. One can learn from McClellan all kinds of quaint but largely useless trivia such as the types of drums used in the Prussian Army or even the relative merits of Sardinian wooden water caskets. Yet nowhere did the young Captain attempt to evaluate or analyze his data; rather McClellan was apparently content simply to report, without investigation or inquiry. The British Cavalry, for example, widely rated as the worst of any major power by the leading cavalry theorists of the day, was cheerfully presented in terms of its formal order of battle without a whiff of criticism by McClellan. One of the positive gains for the United States Cavalry service was the adoption of the Hungarian saddle (albeit that the original horsehair cover, due to the extreme discomfort it caused, was replaced by one of tanned leather); McClellan, in describing this key piece of cavalry equipment, however, did not lay out a process of evaluation from which the reader could trace out and comprehend how he arrived at the merits of his conclu-The reason for McClellan's lack of analysis stemmed sions. from the fact that, unlike either Delafield or Mordecai, he

was not an experienced student of his assigned area of the art of war. In fact, McClellan's understanding of cavalry theory was superficial at best. Analyzing European cavalry theory and practice on the basis of official tables of organization and elite demonstration units was for McClellan, the representative of a second rate power, akin to letting loose a very studious child in a marvelous store of infinite wonders, all very pretty and overwhelming in their splendor.⁵⁴

As an official observer of the major European cavalry services, McClellan was to exert considerable influence on the development of the American cavalry in the late Antebellum years. Yet McClellan, despite the adoption of a new saddle and helping to pave the way for the formal adoption of the new single-rank mounted tactics, was thoroughly traditional in his analysis of cavalry. The image of a young, overly enthusiastic junior cavalry officer, in effect a novice journeying as part of a distinguished United States Military Commission to study at the feet of the masters as it were, is well supported by McClellan's fanciful and utterly impractical notion of transforming Plains Indians into Cossacks:

It is impossible to repress the conviction that in many of the tribes of our frontier Indians, such as the Delaware, Kickapoos & c., we possess the material for the formation of partisan troops fully equal to the Cossacks, in the event of a serious war on this continent, their employment, under the regulations and restrictions necessary to restrain their tendency to un210

necessary cruelty, would be productive of most important advantage.⁵⁵

Far more biting was McClellan's assessment of the types of mounted units then in Army service and in turn, what improvements were necessary. Echoing Davis's argument for general-purpose cavalry, McClellan listed all the conceivable and probable types of wars in which American mounted units would be needed. The classifications of armed conflict which McClellan entertained in his report were the same essential types which had been the focus of national war policy since Calhoun's tenure as Secretary of War. What was not at all likely, McClellan concluded, was a fullscale, unrestrained and nationalistic struggle, of the Napoleonic variety, which of course had, as a consequence of the Congress of Vienna in 1815 and the emergence of scientific concepts of war, been exercised from the lexicon of armed hostilities. Thus three possible uses of cavalry for three types of potential wars were enumerated by McClellan:

a. use against the Indians;
b. to repel foreign invaders [which due to the limited capacity of mid-19th Century ships, would be woefully short of cavalry;
c. an offensive war involving limited use of cavalry [as in Mexico].⁵⁶

Thus:

It could therefore, seem that heavy cavalry would be worse than useless for our purposes, and that we need only light cavalry, in the true and strict sense of the term.

Since the primary purpose of such cavalry would be frontier security (the East, as per traditional doctrine,

, •

was supposedly unfit for conventional mounted units), McClellan argued that:

The tactical unit should be small, that it may be handled with the greatest possible ease and celerity, and that it may never be broken up. The regiment, also, should be small, for the same reasons.

It followed therefore, that:

The nature of cavalry service in the United States being quite different from that performed by any in Europe, we ought not to follow blindly any one system, but should endeavor to select the good features, and engraft them upon a system of our own.57

Superficially, McClellan appeared to have addressed many of the concerns of frontier officers as to the need to maintain unit integrity as well as authoring a uniquely American form of mounted warfare. McClellan, however, most certainly did not desire to cut loose American cavalry practices from its theoretical umbilical cord to European traditions and doctrines of mounted warfare. Thus, as in accordance with classical cavalry theory, McClellan wrote: "the firearms...", of a mounted formation, "...used solely on guard, vedette, & c., to give the alarm, it being taken as a maxim to trust the saber." Furthermore, "against the Indians of our plains, who have no sabers, the far reaching lance would be no doubt an effective weapon; yet a light saber would be about as much so, and far less in the war."58 Thus, in the grand tradition of mounted warfare, the strength of the cavalry is always in its "spurs and sabers."⁵⁹ What McClellan, who had no experience at all in Indian fighting, intended was not the creation of a unique American style of cavalry adapted to the requirements of the Great Plains. Rather he was clearly in the long tradition of professional officers, dating back to the efforts to turn the First Dragoons into a proper European-like mounted unit, who were dedicated to the classical tradition of horse soldiering. Thus the desire to prepare the cavalry to fight a "real" war with a European adversary. The adoption of such useless European practices as the lance or saber, as argued for by McClellan, demonstrated his lack of comprehension of the practical requirements of Indian fighting.

The professional American Army approached the irksome task of Indian control as a non-military activity, of little honor, as the price for its dedications to the Europeanstyle of war. None of the official Army manuals, cavalry or otherwise, up to the 1850s, had made the slightest reference to the unique tactical problems of Indian fighting. Rather the Army chose to leave such problems to the discretion of individual field commanders. For example, General Dabney Maury, recalled in the 1890s, that in the late 1850s, as a consequence of frontier fighting and McClellan's examination of contemporary cavalry doctrine, a new system of tactics was introduced which:

...would enable men to dismount quickly and use their rifles [Sharps carbines] on foot and demanded also single rank formations. By this new system of tactics, a troops... could be moving at the gallop, and when the trumpet sounded, 'Dismount to fight', could halt, link their horses, and be handling their rifles in line of battle... [within] seconds.⁶⁰

While startlingly similar to later, innovative Union cavalry practice, Maury's statement is unsupported by any cavalry manual in use in the United States before or during the Civil War. Moreover, in its use of decidedly nonstandard cavalry tactics, it represented a clear departure from McClellan's emphasis upon orthodoxy in mounted warfare practice. Either Maury was reading later events back into his history (he was a Southern cavalry commander) or (more likely was referring to the growing emphasis on musketry in this period--confusing the traditional mounted warfare manuals with the seat-of-the-pants, ad hoc cavalry practice of frontier commanders.⁶¹ Only Major-General Philip Cooke, one of America's pre-eminent cavalry experts made a specific reference to Western military conditions in his own, official manual of cavalry tactics. Yet Cooke wrote nothing more than such common sense advice as the need for greater camp security; there is no mention or even hint of a detailed and unique body of frontier mounted warfare principles.⁶² McClellan clearly suggested in his official recommendations that most American frontier cavalrymen did not define themselves as true horse soldiers or considered that their grubby work constituted true mounted warfare. Fundamentally they were little more than mounted gendarmes forced to do the dirty work of Indian control. The professional Army, the one dedicated to fighting an invading

European army in the classical manner of the French-Austrian school of war, paid scant attention to the unique requirements of frontier security duty. Only one American officer, an anonymous Captain of infantry, actually formulated a unique system of war to deal with the elusive and extraordinarily mobile Plains Indians in the Antebellum era. Unerringly, this author rejected the use of classical European tactics as being inappropriate as well as ineffectual:

It [the Army] was...warfare in a country of resources and of comparatively contracted space, and for operations against forts, fieldwork, lines of men, communication or supply, or something that was accessible [which] could be found and seen.⁶³

The formal tradition of post-Napoleonic warfare was unsuited to the demands of the frontier security according to the Captain:

This condition is changed; and so the system. The change consists in the field of operations, its extent, resources and people. It is almost the entire country, washed by the waters of the Rocky Mountains...destitute of resources, its people...without permanent habitation, independent of agriculture, good hunters and horsemen and, with few exceptions, hostile.⁶⁴

The failure of the Army to undertake a complete reorientation of its tactics to meet the unique problems of the far West, lay in the military's unshakable commitment to European style warfare, according to this Captain:

Those having the power are looking across the Atlantic to France, waiting to adapt her practice in similar exigencies, while our officers are at least the equals of the French officers, and our men superior. Our line officers, have no voice, they bear these evils and exercise the same quiet stoicism under existing deficiencies which they tolerate, the incubus, the man who shuns his duty or throws it on his superior, and with which they endure their life-long exile, and we have the material to make, as good light cavalry and infantry as any in the world. France felt a similar need in Algeria and she has her chasseurs d'Afrique and spahia....⁶⁵

It is time we acted upon our necessities. Europe comes to us for pistols and rifles, and we take back the latter, altered but not improved.⁶⁶

The assessment offered by this Captain of the limitations of the French-Austrian school of war carried no weight in official circles. Nonetheless, this officer brilliantly identified and criticized the futility of applying orthodox, European concepts of war to the American frontier. Unlike McClellan's romantic, and rather simplistic call for traditional light cavalry and for the conversion of the Plains Indians into Cossacks, this Captain's remarks were directly attuned to the actual difficulties of frontier security duty. Moreover, unlike the direct importation of French Algerian practice in unconventional warfare, as embodied in Davis's great desert Indian control plan, this Captain's concepts reflected, instead, the very originality of Marshal Bugeaud in developing unorthodox tactics uniquely suited to North African conditions. Thus, the development of Indian fighting tactics uniquely designed for the Far West. Specifically, therefore, "the inadequacy and unfitness of present organization...such as the injustice to heavy cavalry [i.e., the Dragoons] and infantry of employing them to subdue a nation of mounted spies who have no home and leave no trace."⁶⁷ The correct, and pointedly unorthodox method of solving the prickly problem of dealing with an exceedingly mobile and fleeting adversary as the Plains Indians, was set forth by the Captain when he wrote:

To control these people or making a step towards doing so, it is proposed to do what has often been done before with a people to be conquered: take a lesson from them. Assimilate and equalize the two by giving to the soldier the horse, arms and dress of a hunter, the wont of which prevents his efficiency, without giving up the present organization for attacks and self support groups of fours [i.e., a kind of early fire team system adopted by some Western commanders].68

The tactics which were in turn devised by this Captain constituted what could be defined as the nucleus of modern The emphasis was on the use of counterinsurgency tactics. small units, not dissimilar from today's LRPs (long range reconnaissance patrols) teams combined with the speed and endurance of the Indian dog soldiers. Specifically, he advocated the creation of a special, commando-like corps combining light infantry and light cavalry (but distinctly not of the usual European variety) -- the former to deal with the Indians in mountainous terrain, the latter for pursuit The proposed armament would be principally on the Plains. breechloading carbines and revolvers plus sabers if required for close-quarter work.⁶⁹ The record, both before and after the Civil War, however, reveals no instance of such strikingly original tactics being employed by the Army. Thus

frontier commanders continued, as in the past, to make do with the existing, very ill-suited resources at their disposal in handling frontier security problems.

In the main, during the years immediately prior to the Civil War, the official, professional Army rededicated itself to its essential mission, the defense of the United States against foreign tyranny with the doctrines, weapons and equipment of the French-Austrian school of war and of contemporary France. The advent of radical technological, economic and social change was little understood and little exploited in the final years of the Antebellum era. In 1861 the United States Army would find itself fighting a mass, industrial and nationalistic war of survival. This was clearly not the kind of war predicted by either the strategists of the French-Austrian school of war or by McClellan in his official report. The United States had greatly changed since Calhoun's tenure as Secretary of War. What had been a minor power, perilously perched on the outer fringes of European civilization was now a continental size nation, a growing commercial power, increasingly urban in its social make-up.

The Calhoun war policy lay in ruins by the mid-1850s; casemate seacoast fortresses and the concept of the skeleton army were rendered obsolete by the development of steam powered ships, by the great improvements in naval artillery and by the considerable westward expansion of the country. Yet the very French-Austrian school of war was already obsolete before its first theorists attempted to set its ideas down on paper. Only Prussia and General Clausewitz had fully understood that the Napoleonic Wars were truly the portent of future nationalistic tussles between warring peoples, dominated by ideology and by industry and technol-The Guilbertian tactical revolution demolished the oqy. cardinal military tenet of Eighteenth Century limited war doctrine, namely that one army could not move with sufficient dispatch to encircle an destroy another. It had as well made the need for a Frederickian, robot-like army of mercenaries obsolete as well. In turn, the Minie-bullet rifle, the culmination of the gradual shift toward firepower as dominating the battlefield since the end of the Seventeenth Century, rendered not only the formal tactical systems obsolete but also the principles of command and leadership. And it launched the armies of the trans-Atlantic military community on to the first arms race; weapons would be redefined and improved not every couple of hundred of years or more as in the past, but now every fifteen or less. However, to the vast majority of military officers and theorists, until World War I, the full impact of such radical change was at best, ill-understood and in the main ignored.

POSTSCRIPT

The Antebellum frontier experiences of the American cavalry had no direct effect upon the development of mounted warfare practice during the Civil War. Both Confederate and Union horse soldiers gradually adapted to the dense woodland terrain of the Eastern United States, through the use of dismounted tactics. Yet, the charges and the arme blanche continued to dominate formal Confederate and Union cavalry practice until 1864. The southerners achieved more success initially due to the simple fact that Confederate military commanders had to use their mounted volunteers due to the initial absence of any military organization. The North, however, blessed (or more aptly, cursed) with the existing Antebellum army organization dutifully, according to European cavalry doctrine, blocked the formation of state horse units. Only political pressure and the demands of field commanders for cavalry caused the military's senior leadership to begrudgingly accept such troops.

The initial Southern superiority in the large scale use of cavalry stemmed directly from support from senior Confederate commanders for their horse soldiers. Thus, Confederate cavalry performed better in the field due to

220

retaining their organization integrity (Union regiments, in contrast, were broken up and scattered among various larger units) and better leadership. Confederate Captain John N. Opie expressed very well the initial low opinion held by both southern and northern military men of horse soldiers.

It was the custom of the infantry to taunt and jeer the cavalry whenever the opportunity arose. They called them, the 'Buttermilk Rangers'. If the cavalry was going forward, they all cried out, 'No fight today, the 'Buttermilk Rangers' are going to the Front'. If they were going to the rear, they shouted 'The Buttermilk Rangers' running from the yanks, lookout for a battle.70

It was such stunts as Colonel Jeb Stuart's 1862 ride around General McClellan's Army of the Potomac during the Peninsular campaign which greatly improved the morale of Confederate cavalry. In turn, rebel horse units won a measure of support from senior Confederate generals. Yet, the South failed to develop any advances in cavalry tactics; horse soldiers were wasted on unproductive raids. Such experiences -- hard charging units scoring a few quick successes -- is but of little substantial military value. Only the Confederate guerilla leader, General Bedford Forrest developed a form of highly mobile mounted infantry as an alternative to orthodox cavalry tactics. The traditional lack of firepower of horse soldiers and the logistical problems of supporting a cavalry field force crippled Forrest's efforts at devising a highly mobile Confederate strike force.71

In 1864, during the wilderness campaign, General Sheridan radically altered Union military practice. Essentially his thrust toward Richmond was not a raid, rather, his sole purpose was to draw out and destroy Confederate mounted units. The real break-through in Union cavalry, came with Brevet Major-General James Harrison Incredibly, only twenty-three years old, in Wilson. December, 1864, during the Battle of Nashville, Wilson's cavalry forces, fighting both mounted and dismounted and exploiting the enormous fire power of their seven-shot Spencer carbines, played the key role in annihilating General Hood's invading army. The culmination of Union innovative cavalry tactics was Wilson's 1865 Selma expedi-Combining firepower and mobility with the simple tion. Napoleonic logistical solution of living off the land, Wilson's cavalry army destroyed the last major industrial center of the confederacy, crushed Forrest's army and captured Selma, protected by some of the most formidable defenses of the Civil War.⁷² While there was no direct link to the Antebellum army's frontier experience, the innovations of Wilson were of the same sort as earlier army officers' ad hoc solutions to the difficulties of western and southeastern border control. Thus while the French-Austrian school of war, overall failed during the course of the Civil War, professionalism allowed for the development of innovative and dedicated officers.

FOOTNOTES

Chapter I

 "Army of the United States [report of the Secretary of War]" <u>Military and Naval Magazine of the United</u> States II (September 1833); 21.

2. Lieutenant-General Winfield Scott, Memoirs (2 vols.; New York: 1864), I, 30-154; Major Charles Winslow Elliott, Winfield Scott The Soldier and the Man (New York: 1937, 102-114; Brevet Brigadier-General George Forsyth, The Story of the Soldier (New York: 1900), 49-52; Brevet Major-General Emory Upton, The Military Policy of the United States (Washington, D.C.: 1917), 99-103; Marcus Cunliffe, Soldiers and Civilians the Martial Spirit in America 1775-1968), 52-53; Howard White, Executive 1868 (Boston: Influence in Determining Military Policy of the United States (Urbana: 1925), 179-182; Leonard D. White, The Jeffersonians A Study in Administrative History (New York: 1951), passim.; L.D. Ingersoll, A History of the War Department of the United States, et. al. (Washington, D.C.: 1880), 40-41; Ralph Ketchan, James Madison, A Biography (London: 1971), 534-612; on the War of 1812, see, Samuel R. Brown, Views of the Campaigns of the North Western Army, et. al. (Troy: 1814), passim.; Gilbert S. Hunt, The Late War

Between the United States and Great Britain, et. al. (New York: 1816), <u>passim</u>.; Charles J. Peterson, <u>The Military</u> <u>Heroes of the War of 1812</u> (Philadelphia: 1848), <u>passim</u>.; H.M. Brackenridge, <u>History of the Late War Between the</u> <u>United States and Great Britain</u>, et. al. (Philadelphia: 1845), <u>passim</u>.; Major James Ripley Jacobs and Glen Tucker, <u>The War of 1812: A Compact History</u> (New York: 1969), <u>passim</u>.; John K. Mahan, <u>The War of 1812</u> (New York: 1969), <u>passim</u>.

3. "Biographical Sketch of Brigadier General Macomb", <u>Military and Naval Magazine of the United States</u> V (May 1835), 161-173; J. T. Headly, <u>The Lives of Winfield Scott</u> <u>and Andrew Jackson</u> (New York: 1852), <u>passim.</u>; <u>Illustrated</u> <u>Life of General Winfield Scott Commander-in-Chief of the</u> <u>Army in Mexico</u> (New York: 1847), <u>passim.</u>; "Brigadier General Henry Leavenworth", <u>Military and Naval Magazine of</u> <u>the United States</u> IV (October 1834), 101-103; Edward Mansfield, <u>The Life of General Scott Embracing His Campaign</u> <u>in Mexico</u> (New York: 1848), <u>passim</u>.

4. William B. Skelton, "Professionalization in the U.S. Army Officer Corps during the Age of Jackson", <u>Armed</u> <u>Forces and Society</u> I (August 1975), 448-449; William B. Skelton, The United Stats Army, 1821-1837: An Institutional History (unpublished Ph.D. dissertation, Northwestern University, 1968), 13-18; Brigadier-General Dale O. Smith, U.S. Military Doctrine: A Study and Appraisal (New York:

224

1955), 32-36; Lawrence Delbert Cress, <u>Citizens In Arms: The</u> <u>Army and the Militia in American Society to the War of 1812</u> (Chapel Hill: 1982), 172-177; John K. Mahan, <u>History of the</u> <u>Militia and the National Guard</u> (New York: 1982), 65-77.

5. Warren H. Hassler, Jr., <u>With Shield and Sword:</u> <u>American Military Affairs Colonial Times to the Present</u> (Ames: 1982), 48; Forsyth, Story of the Soldier, 17-19.

6. William H. Gaines, Jr., "The Forgotten Army Recruiting for a National Emergency, 1799-1800." <u>Virginia</u> <u>Magazine of History and Biography</u> LVI (July 1948), 262-279; James Ripley Jacobs, <u>The Beginning of the United States Army</u> <u>1783-1812</u> (reprint; West Port: 1974 (1947)), 120-135; Thomas J. Craeckel, "Jefferson Politics and the Army: An Examination of the Military Peace Establishment Act of 1802," <u>Journal of the Early Republic</u> II (1982), 22-38; Forsyth, <u>Story of the Soldier</u>, 21-40; Hassler, <u>Shield and <u>Sword</u>, 51-60; Skelton, <u>U.S. Army</u>, 1-12; Upton, <u>Military</u> <u>Policy</u>, 73-75; Richard C. Watson, "Congressional Attitudes Toward Military Preparedness 1829-1838," <u>Mississippi Valley</u> Historical Review XXXIV (March 1948), 611-612.</u>

7. William Duane, <u>The American Military Library</u>, or <u>Compendium of the Modern Tactics</u>, et. al. (Philadelphia: 1809), 128; "Causes of the Failure of the Expedition Against the Indians in 1791 Under the Command of Major-General St. Clair, of the Northern Army," <u>American State Papers</u>, <u>Military Affairs</u>, I, 36-45 (1791); "Causes of the Failure of the Northern Army," <u>American State Papers, Military Affairs</u>, I, 439-488 (1814); Arthur St. Clair, <u>A Narrative of the</u> <u>Manner in Which the Campaign against the Indians in the year</u> <u>1791 was Conducted</u>, et. al. (reprint; New York: 1971 (1819)), <u>passim</u>.; Upton, <u>Military Policy</u>, 73-88; Hassler, <u>Shield and Sword</u>, 73; Jacobs, <u>U.S. Army</u>, <u>passim</u>.; James Ripley Jacobs, <u>Tarnished Warrior: Major-General James</u> <u>Wilkerson</u> (New York: 1938), <u>passim</u>.

8. Richard A. Preston and Sidney F. Wise, <u>Men in Arms</u> (4th ed.; New York: 1979), 196-200; Louis Morton, "Origins of American Military Policy," <u>Military Affairs</u> XXII (Summer 1958), 76-79.

9. Craeckel, "Jefferson Politics and the Army," 21-38; also see, Donald Hickey, "Federalist Defense Policy in the Age of Jefferson, 1801-1812," <u>Military Review</u> XLV (April 1981), 63-70.

10. Scott, Memoirs, I, 156-157.

11. Lieutenant Richard Nicholson Magrath, <u>An</u> <u>Historical Sketch of the Progress of the Art of War</u> (London: 1983), 54-68; Theodore Ropp, <u>War in the Modern Era</u> (Durham: 1959), 132-133; Hoffman Nickerson, <u>The Armed Horde 1793-</u> 1939: A Study of the Rise, Survival and Decline of the Mass <u>Army</u> (New York: 1940), 109-125, 133-140; John Gooch, <u>Armies</u> <u>in Europe</u> (London: 1980), 50-54; Spencer Wilkerson, <u>The</u> <u>French Army Before Napoleon</u> (Oxford: 1915), 14-15; Liddell Hart, <u>The Ghost of Napoleon</u> (London: 1933), <u>passim</u>; J.F.C. Fuller, <u>The Conduct of War 1789-1961</u> (New Brunswick: 1961), 44-55; J.R. Westerner, "Armies," in A. Goodwin, ed., <u>The New</u> <u>Cambridge Modern History</u> (15 vols.; Cambridge, U.K.: 1965), VIII, 190-217; Richard Holyroyd, "The Bourbon Army 1815-1830," <u>Historical Journal</u> (Cambridge) XIV (September 1971), 529-552; Edward Hagerman, "From Jomini to Dennis Hart Mahan: The Evolution of Trench Warfare and the American Civil War," <u>Civil War History</u> XII (September 1967), 197-200; Preston and Wise, <u>Men in Arms</u>, 193-196; Frederick Louis Huidekuiper, Military Studies (Kansas City: 1904), 103-104.

12. C.P. Kingsbury, <u>An Elementary Treatise on</u> <u>Artillery and Infantry Adapted to the Service of the United</u> <u>States</u>, et. al. (New York: 1856), 44-45; President James A. Monroe, <u>A Narrative Tour of Observations Made during the</u> <u>Summer of 1817 through the Northeastern and Northwestern</u> <u>Departments of the Union</u>, et. al. (Philadelphia: 1818), appendix, xii-xiii; Elliott, <u>Scott</u>, 194-200; "U.S. Army," 15-16; Skelton, "Professionalization in the U.S. Army," 456; Roger C. Nichols, <u>General Henry Atkinson A Western Military</u> <u>Career</u> (Norman: 1965), 24-25; Sidney Forman, "The United States Military Philosophical Society, 1812-1813," <u>William</u> <u>and Mary Quarterly</u>, 2nd series II (January 1945), 273-285; James W. Pohl, "The Influence of Antoine Henri de Jomini on Winfield Scott's Campaign in the Mexican War," <u>Southwestern</u> Historical Quarterly LXXVII (1973), 89-94. 13. Edward B. Mansfield, <u>The Military and Services of</u> <u>the United States Military Academy</u> (New York: 1847), 23; <u>United States Military Philosophical Society Extracts</u> (January 30, 1808), 7.

14. Duane, <u>American Military Library</u>, 128; First Lieutenant William P. Craighill, <u>The Army Officer's Pocket</u> <u>Companion, Principally Designed for Staff Officers in the</u> <u>Field</u>, et. al. (New York: 1862), 16-17; also see, "Military Education," Edinburgh Review XLIX (June 1829), 406-407.

15. Samuel P. Huntington, The Soldier and the State the Theory and Politics of Civil-Military Relations (Cambridge: 1964), 20-28; General Sir John Winthrop Hackett, The Profession of Arms (London: 1962), 3-25; Michael Roberts, The Military Revolution of 1560-1660 (Belfast: 1956), 16-26; Samuel E. Scott, "Gentleman Soldiers at the Time of the French Revolution," Military Review XLV (October 1981), 105-108; John Childs, Armies and Warfare in Europe, 1648-1789 (New York: 1982), 22-26, 78-80; Skelton, "Professionalism in the U.S. Army," 455-457; Gordon A. Craig, The Politics of the Prussian Army 1640-1945 (New York: 1964), 5-26; Gunther E. Rothenberg, "The Austrian Army in the Age of Metternich," Journal of History XL (June 1968), 156-159; Thomas Baker, Army Aristocracy, Monarchy: Essays on War, Society and Government in Austria 1618-1780 (Boulder: 1982), 1-21; Otto von Pirka, Armies of the Napoleonic Era (New York: 1979), 9-11; Martin Kitchen,

A Military History of Germany from the Eighteenth Century to the Present Day (Bloomington: 1975), 14-18; Thomas Griess, Dennis Hart Mahan: West Point Professor and Advocate of Military Professionalism 1830-1871 (Ph.D. dissertation, Duke University: 1968), 40-41; Walter Goerlitz, <u>History of the German General Staff 1657-1945</u> (New York: 1953), 3-7; S. F. Scott, "The French Revolution and the Professionalization of the French Officer Corps, 1789-1793," in Morris Janowitz and Jacques Van Doorn, ed., <u>On Military Ideology</u> (Rotterdam: 1971), 5-18; Morris Janowitz, "The Decline of the Mass Army," Military Review LII (February 1972), 10-16.

16. For engineering, see for example, Sebastien LePrest Vauban, <u>A Manual of Siegecraft and Fortification</u> (reprint; Ann Arbor: 1968 (1740)); John Muller, <u>The Attack</u> and Defense of Fortified Places, et. al. (3rd ed.; London: 1757); for a philosophical approach to war, see, E. de Vattel, <u>The Laws of Nations or the Principles of Natural Law</u> (3 vols.; reprint; Washington, D.C.: 1916), II; for the first attempts at devising a unique body of military theory, see, Humphrey Bland, <u>A Treatise of Military Discipline in</u> <u>Which is Laid Down the Duty of the Officer and Soldier</u>, et. al. (5th ed.; London: 1743); E. Hoyt, <u>A Treatise on the</u> <u>Military Art</u> (Greenfield: 1798); see as well, <u>Frederick the</u> <u>Great, Instructions for His Generals</u> (reprint; Harrisburg: 1944); Major-General James Wolfe, <u>General Wolfe's</u> <u>Instructions to Young Officers</u>, et. al. (reprint; Ottawa: 1968 (1780)); in addition, see, Childs, <u>Armies and Warfare</u>, 98-100; David Bein, "The Army in the French Enlightenment," <u>Past & Present</u>, No. 85 (November 1979), 68-98; Steven T. Ross, "The Development of the Combat Division in Eighteenth Century French Armies," <u>French Historical Studies</u> IV (Spring 1965), 84-94.

17. Field Marshal Baron von der Goltz, <u>The Nation in</u> <u>Arms: A Treatise on Modern Military Systems and the Conduct</u> <u>of War</u> (London: 1906), 21-22; Gooch, <u>Armies</u>, 22-28; Goerlitz, <u>German General Staff</u>, 25-36; Michael Howard, <u>War</u> <u>in European History</u> (Oxford: 1976), 95-99; Huntington, <u>Soldier and the State</u>, 26-32; William H. McNeil, <u>The Pursuit</u> <u>of Power Technology, Armed Force and Society since A.D. 1000</u> (Chicago: 1982), 163-165, 172-173; Strachan, <u>European</u> <u>Armies</u>, 60-75; Ropp, <u>War</u>, 111-119.

18. Skelton, "Professionalism in the U.S. Army," 443-444; Huntington, <u>Soldier and the State</u>, 8-18; Scott, "Professionalization/French Officer Corps," 18-50; Gerke Teitler, <u>The Genius of the Professional Officers' Corps</u> (Beverly Hills: 1977), 6-25.

19. David H. Chandler, <u>Professional Lives in American</u> <u>Structure and Aspiration 1750-1850</u> (Cambridge: 1982), 163-165; 172-173.

20. Holyroyd, "Bourbon Army," 529-552.

21. Goltz, Nation in Arms, 23, 25-26.

22. Teitler, <u>Profession of Arms</u>, 33-34; Huntington, <u>Soldier and the State</u>, 31-32; Hajo Holborn, "Moltke's Strategical Concepts," <u>Military Affairs</u> VI (1942), 153-156.

23. Major-General Donald H. Connolly, "What and Why is a General Staff?," <u>Military Engineer</u> XII (May-June 1921), 222-229.

24. John C. Calhoun, "On the Reduction of the Army, Report of the Secretary of War to House of Representatives, December 14, 1818, " in John C. Calhoun, <u>Works</u>, ed. by Richard Crable (6 vols.; New York: 1855), III, 29-30; Skelton, <u>U.S. Army</u>, 23; Ingersoll, <u>War Department</u>, 85-86; Charles M. Wilste, <u>John C. Calhoun Nationist</u>, 1782-1828 (Indianapolis: 1944), 149-152, 223-224.

25. John C. Calhoun, "On the Reduction of the Army, Report to the House, Dec. 12, 1820," Calhoun, <u>Works</u>, III, 81-82; Margaret Coit, <u>John C. Calhoun: American Portrait</u> (Boston: 1950), 121-128; Samuel Huntington, "Equilibrium and Disequilibrium in American Military Policy," <u>Political</u> <u>Science Quarterly</u> LXXVI (December 1961), 486.

26. "Army of the U.S.," 21-23; Skelton, <u>U.S. Army</u>, 25; White, <u>Executive Influence</u>, 182-183, 186-188; Henry Ammon, <u>James Monroe, The Quest for National Identity</u> (New York: 1971), 359-360, 470-472; W.P. Cresson, <u>James Monroe</u> (Chapel Hill: 1946), 350-351; Wilste, <u>Calhoun</u>, 149-152, 164-166, 223-224; William M. Meigs, <u>The Life of John Caldwell Calhoun</u> (New York: 1917), 265-266.

231

They have Trod the West Point Tradition in American Life (New York: 1940), 104-105; Ambrose, West Point, 55-56.

39. "Reports of the Boards of Visitors," 251; "United States Military Academy," <u>Southern Literary Messenger</u> IX (1843), 665-670.

40. Barnard, <u>Military Schools</u>, 740; also see, Captain Edward C. Boynton, <u>History of West Point</u>, et. al. (New York: 1863), 237; P.S. Michie, "Education in its Proper Relationship to the Military Profession," <u>Journal of the</u> Military Service Institution I (1880), 154-157.

41. John C. Calhoun, <u>The Papers of John C. Calhoun</u>, ed. by W. Edwin (15 vols.; Columbia: 1959-1981), III, 286.

42. Henry Clay, <u>The Papers of Henry Clay</u>, ed. by James Hopkins and Mary W. M. Hargreaves (Lexington: 1959-1981), II, 120.

43. "Popular Prejudices," 297.

44. "Military Academy at West Point," 305-313.

45. Scott, Memoirs, I, 32.

46. "Military Academy at West Point," 312.

47. Griess, <u>Dennis Hart Mahan</u>, 75-102; Mansfield, "Military Academy," 26-27; Huntington, <u>Soldier and the</u> <u>State</u>, 197-198; Skelton, <u>U.S. Army</u>, 19-20; Hassler, <u>Shield</u> <u>and Sword</u>, 119-121; Cunliffe, <u>Soldiers & Civilians</u>, 105-111; Park, <u>West Point</u>, 76-100; George Fielding Elliot, <u>Sylvanius</u> <u>Thayer of West Point</u> (New York: 1959), <u>passim</u>. 48. Palmer, <u>America in Arms</u>, 80-81; Huntington, <u>Soldier and the State</u>, 197-198; James C. Morrison, Jr., "Educating the Civil War Generals: West Point, 1833-1861," <u>Military Affairs XXVII</u> (October 1974): for the perspective of a contemporary British officer, see, Patrick MacDougall, <u>The Theory of War</u>, et. al. (London: 1862), 337; also see in contrast, Herman Hattaway and Archer Jones, <u>How the North</u> <u>Won: A History of the Civil War (Urbana: 1983), 11.</u>

49. Scott, Memoirs, I, 29.

50. Scott, <u>Memoirs</u>, I, 111; also see, Caldwell, "Frontier Army Officer," 101-128; Jacobs, <u>U.S. Army</u>, 139-146; Huntington, <u>Soldier and the State</u>, 20-28; Nichols, <u>Atkinson</u>, 3-25; Elliott, <u>Scott</u>, 102-114; Skelton, "Professionalization in the U.S. Army," 446-449; Mary C. Gillett, "Thomas Lawson, Second Surgeon General of the U.S. Army: A Character Sketch," <u>Prologue</u> XIV (Spring 1982), 15-24.

51. Caldwell, "Frontier Army Officer," 101-128; Huntington, <u>Soldier and the State</u>, 20-28; Jacobs, <u>U.S. Army</u>, 139-146, 224-25, 273; Skelton, "Professionalization in the U.S. Army," 446-449; Nichols, <u>Atkinson</u>, 3-25.

52. Blanchard, Jerrold, <u>The French Under Arms, Being</u> <u>Essays on Military Matters in France</u> (London: 1860), 244; "Military Education," <u>Blackwood's Magazine</u> LXXXII (September, November 1857), 265-290, 575-592; "Military Education," <u>Edinburgh Review</u>, 394-395, 406-407; "National Education," <u>Edinburgh Review</u> XLV (April 1852), 325-326, 329-331.

53. This concept of professionalism and the trans-Atlantic brotherhood of military officers was well stated in, "The Armies of Europe," <u>Putnam's Magazine</u> VI (1855): 193.

54. Jacob K. Neff, <u>The Army and Navy of America</u>, et. al. (Philadelphia: 1845), 10.

55. "John C. Calhoun to Richard M. Johnson, January 15, 1819," <u>American State Papers</u>, <u>Military Affairs</u>, XVI, 834.

56. Lieutenant-Colonel J.J. Graham, <u>Elementary History</u> of the Art of War (London: 1858), 2-3.

57. E. Hoyt, <u>Practical Instructions for Military</u> Officers, et. al. (reprint; West Port: 1971 (1811)), IV.

58. Scott, Memoirs, I, 36.

59. Isaac Maltby, <u>The Elements of War</u> (3rd ed.; Hartford: 1815), XI.

60. Maltby, Elements, XXVII; Hoyt, Military Art, 11.

61. Graham, <u>Art of War</u>, 2-3; Marshal Auguste Frederich Marmont, <u>On Modern Armies</u> (London: 1865), 3.

62. Simon Francis Guy de Veron, <u>A Treatise on the</u> <u>Science of War and Fortifications</u>, et. al. (New York: 1811), 9; Note: This work was a standard West Point textbook until the 1830s; also see, Ropp, <u>War</u>, 35.

63. Guy De Veron, War and Fortifications, 10.

64. Strachan, European Armies, 60-75.

65. Baron Henri de Jomini, <u>The Practice of War</u>, et. al. (Richmond: 1863), X-XI.

66. Ibid., VII (C.F. Pardigon, Introduction).

67. L.V. Buckholtz, <u>Tactics for Officers of Infantry</u>, <u>Cavalry and Artillery</u> (Richmond: 1861), 7-8; also see, Michie, "Education... Military Profession," 166-167.

68. Buckholtz, Tactics, 7-8.

69. Magrath, <u>Art of War</u>, 2; also see, Michie, "Education... Military Profession," 166-167.

70. American State Papers, Military Affairs, XIX, 136.

71. Patrick MacDougall, <u>Modern Warfare as Influenced</u> by Modern Artillery (London: 1864), 30.

72. Dennis Hart Mahan, <u>A Treatise on Field</u> Fortifications, et. al. (New York: 1861), 36-37.

73. Morrison, "Educating the Civil War Generals," 108-109; Griess, <u>Dennis Hart Mahan</u>, 130-131; <u>The Centennial</u> <u>History of the United States Military Academy at West Point</u>, et. al. (Washington, D.C.: 1904), 223.

74. Hoyt, Practical Instruction, IV.

75. For an excellent sampling of the various styles of Eighteenth Century Military History, see, <u>The Field of Mars:</u> <u>Being an Alphabetical Digestion of the Principal Naval and</u> <u>Military Engagements in Europe, Asia, and America</u>, et. al. (2 vols.; London: 1781), <u>passim</u>. 76. Dennis Hart Mahan, <u>An Elementary Treatise on</u> <u>Advanced-Guard, Outpost, and Detachment Service of Troops</u>, et. al. (New York: 1853), 217-218; also see, Cunliffe, Soldier & Civilian, 389-402.

77. Skelton, <u>U.S. Army</u>, 166-167; also see, "The Military Establishment of the United States," <u>Southern</u> Literary Messenger XVIII (February 1851), 69.

78. Skelton, <u>U.S. Army</u>, 166-167; also see, "Military Academy at West Point," 310-311; Ambrose, <u>West Point</u>, 87-105.

79. J.B. Wheeler, <u>A Course of Instruction in the</u> <u>Elements of the Art and Science of War</u>, et. al. (New York: 1878), V.

80. Wheeler, <u>Course of Instruction</u>, 3-4; General Samuel C. French, <u>Two Wars: An Autobiography</u> (Nashville: 1901), 18-19.

81. MacDougall, <u>Modern Warfare</u>, I; also see, Fayette Robinson, <u>An Account of the Organization of the Army of the</u> <u>United States</u>, et. al. (22 vols.; Philadelphia: 1848), I, 65-66.

82. (Erzas Hunt), "West Point and Cadet Life," Putnam's Magazine IV (August 1854), 204.

83. American State Papers, Military Affairs, I, 137.

84. Baron Henri de Jomini, <u>The Art of War</u> (Philadelphia: 1862), 42; also see, Magrath, <u>Art of War</u>, 34; "Modern Tactics," <u>Southern Literary Messenger</u> XXVI (January 1858), 1.

"System of Fortification Recommended by the Board 85. of Engineers," American State Papers, Military Affairs, II, 245-260 (1826); "Our Sea-Coast Defense Fortification System," Putnam's Magazine VII (March 1856), 314-325; First-Lieutenant John C. Morton, Memoir on American Fortification (Washington, D.C.: 1859), passim.; Major John G. Barnard, Notes on Sea Coast Defense, et. al. (New York: 1861), passim; E.G. Campbell, "Railroads in National Defense 1829-1848," Mississippi Valley Historical Review XXVII (December 1940), 361-378; Skelton, U.S. Army, 16-18; W. Turrentine Jackson, "The Army Engineers as Road Builders in Territorial Iowa," Iowa Journal of History XLVII (January 1949), 15-33; Martin van Crevald, Supplying War Logistics from Wallenstein to Patton (London: 1977), 55-70; Willard B. Robinson, "Maritime Frontier Engineering: The Defense of New Orleans," Louisiana History XVIII (Winter 1977), 5-62.

86. Jomini, <u>Art of War</u>, 42; Hoyt, <u>Practical</u> <u>Instructions</u>, 30.

87. Childs, Armies and Warfare, 133-141.

88. Hoyt, <u>Practical Instructions</u>, 30; for a practical example of military engineering in use, see, "Military Bridges," <u>Edinburgh Review XCVIII</u> (October 1853), 448-480.

89. Senator Thomas Hart Benton, Thirty Years View, or

a History of the American Government for Thirty Years 1820 to 1850 (2 vols.; New York: 1854), 639.

90. Ibid., 184.

91. Cunliffe, <u>Soldiers & Civilians</u>, 111; George B. Stanford, <u>Fighting Rebels and Redskins Experiences in Army</u> Life, et. al. (Norman: 1969), 114.

92. Cunliffe, <u>Soldiers & Civilians</u>, 198-200; "Military Establishment," 65; for defenses of West Point, see, "Military Academy, West Point," <u>Military and Naval Magazine</u> of the United States II (November 1833), 135-136; "Spirit and Progress of the Age," <u>Military and Naval Magazine of the</u> <u>United States I (1833), 1-12; "West Point," <u>Military and</u> <u>Naval Magazine of the United States III (March 1834), 68-</u> 72.</u>

93. "West Point Cadet Life," 196-197; also see, "United States Military Academy," <u>Southern Literary</u> <u>Messenger IX (1843), 665-670.</u>

94. Cunliffe, <u>Soldiers & Civilians</u>, 106-107; Leonard D. White, <u>The Jacksonians: A Study in Administrative</u> History 1829-1861 (New York: 1954), 198-200.

95. Skelton, "Professionalization in the U.S. Army," 456.

96. Randolph B. Marcy, <u>Border Reminiscences</u> (New York: 1872), 47.

97. Brevets were derived from British Army practice and were in effect, honorary titles "awarded for gallant or meritorious action in time of war, and having none of the authority, precedence or pay of real or full rank." Created in 1806, Brevets were supposed to only have command effect when officers of different corps were serving in mixed detachments. They proved to be a major source of controversy and internal discord within the Army as to who was actually ranked what--Lieutenant-Colonel Mark Mayo Boatner, III, <u>The Civil War Dictionary</u> (New York: 1959), 84; also in general see, Colonel James B. Fry, <u>The History</u> and Legal Effect of Brevets in the Armies of Great Britain and the United States, et. al. (New York: 1873), passim.

98. Corps of Engineers, Corps of Topographical Engineers, Ordnance Corps, Artillery, Infantry, and later, Dragoons and Mounted Rifles, "West Point and Cadet Life," 198.

99. The following autobiographies and collections of letters give a comprehensive picture of West Point in the Antebellum period: William Woods Averell, <u>Ten Years in the Saddle: The Memoirs</u>, et. al. (San Rafael: 1978), 15-54; George Armstrong Custer, <u>Custer in the Civil War: His</u> <u>Unfinished Memoirs</u>, ed. by John M. Carroll (San Rafael: 1977), 78-80; Henry A. DuPont, "West Point in the Fifties: The Letters of Henry A. DuPont," ed. by Stephen E. Ambrose, <u>Civil War History X</u> (September 1964), 291-308; French, <u>Two</u> <u>Wars</u>, 14-20; Major-General Ethan Allen Hitchcock, <u>Fifty</u> <u>Years in Camp and Field</u> (New York: 1909), 48-66; U.S. Grant, <u>Personal Memoirs</u> (2 vols.; New York: 1888), I, 7-14; Major-General D.S. Stanley, <u>Personal Memoirs</u> (Cambridge: 1917), 16-26; James Harrison Wilson, <u>Under the Old Flag</u>, et. al. (2 vols.; New York: 1912), 7-16; in addition, see, Sidney Foreman, compl., <u>Cadet Life before the Civil War</u> <u>Bulletin No. 1</u> (West Point: 1945), <u>passim</u>.; also see as well, Francis Paul Prucha, "The United States Army as Viewed by British Travelers 1825-1860," <u>Military Affairs</u> XVII (Winter 1953), 121-122.

100. U.S. Statutes at Large, III, 426-427.

101. Ingersoll, <u>War Department</u>, 85-88; Skelton, <u>U.S.</u> <u>Army</u>, 18-19; Robinson, <u>Organization/U.S. Army</u>, I, 75-84; Erna Risch, <u>Quartermaster Support of the Army: A History of</u> <u>the Corps 1775-1939</u> (Washington, D.C.: 1962), 115, 181-188; White, Jeffersonians, 225, 238-239.

102. Upton, <u>Military Policy</u>, 154; Griess, <u>Dennis Hart</u> <u>Mahan</u>, 8-9; William E. Birkheimer, <u>Historical Sketch of the</u> <u>Organization, Administration, Material and Tactics of the</u> <u>Artillery United States Army</u> (Washington, D.C.: 1884), 169-171.

103. Skelton, <u>U.S. Army</u>, 30-34; Hattaway and Jones, <u>How</u> <u>the North Won</u>, 103-105; Ingersoll, <u>War Department</u>, <u>passim</u>.; James B. Fry, <u>A Sketch of the Adjutant General's Department</u>, <u>U.S. Army from 1775 to 1875</u>, et. al. (New York: p.p., 1876), <u>passim</u>.; also see, United States War Department, General Regulations for the Army, or Military Institutions (Philadelphia: 1821), 178-187; <u>U.S. Statutes at Large</u>, III, 615-616.

104. <u>American State Papers</u>, <u>Military Affairs</u>, III, 821. 105. William B. Skelton, "The Commanding General and the Problem of Command in the United States Army, 1821-1841," <u>Military Affairs XXXI</u> (December 1970), 117-122; Skelton, <u>U.S. Army</u>, 34-43, 124-130; Lieutenant-Colonel J.D.

Hittle, The Military Staff, Its History and Development (Harrisburg: 1944), 159-166.

106. Captain Auguste F. Lendy, <u>Maxims, Advice and</u> <u>Instructions on the Art of War</u>, et. al. (New York: 1862), 13-14.

107. Huntington, "Equilibrium and Disequilibrium," 486.

108. Dallas D. Irvine, "The Origins of Capital Staffs," Journal of Modern History X (June 1938), 161-179; Hittle, Military Staff, 29-40; Ropp, War, 133-139; Goerlitz, German General Staff, 2-36.

109. Comte de Orleans Paris, Louis Philippe Albert, <u>History of the Civil War in America</u> (3 vols.; Philadelphia: 1875), I, 26-28; Craighill, <u>Pocket Companion</u>, 12-17; MacDougall, <u>Theory of War</u>, 34-35; Captain Thomas James Thackery, <u>The Military Organization and Administration of</u> <u>France</u> (2 vols.; London: 1856), <u>passim</u>.; also see as well, Arpod Kovacs, "French Military Institutions Before the Franco-Prussian War," <u>American Historical Review</u> LI (January 1946), 217-235. 110. Robinson, Organization/U.S. Army, 79.

111. Major-General George B. McClelland, McClelland's Own Story: The War for the Union, et. al. (New York: 1887), 112; also see, Graham, <u>Art of War</u>, 173-174; MacDougall, Theory of War, 20-29.

112. MacDougall, Modern Warfare, 181.

113. Hittle, <u>Military Staff</u>, 56-96; Dallas D. Irvine, "French and Prussian Staff Systems Before 1870," <u>Military</u> Affairs, II (Winter 1938), 197-203.

114. Connolly, "General Staff," 222-229; Major-General James Murphy, "The Evolution of the General Staff Concept," Defense Management Journal XII (July 1976), 34-39.

115. (A Subaltern), "Notes on Our Army," Southern
Literary Messenger X (1844), 86-87.

116. Skelton, <u>U.S. Army</u>, <u>passim</u>.; Ingersoll, <u>War</u> Department, <u>passim</u>.; Weigley, <u>U.S. Army</u>, passim.

117. John O'Brien, <u>A Treatise on American Military Laws</u> and the Practice of Courts Martial, et. al. (Philadelphia: 1846), 30-43.

118. Hittle, <u>Military Staff</u>, 69-84; Nickerson, <u>Armed</u> <u>Horde</u>, 91-137; Spencer Wilkinson, <u>The Brain of an Army: A</u> <u>Popular Account of the German General Staff</u> (Westminster: 1895), 58-67; Smith, <u>U.S. Military Doctrine</u>, 50-54; Gooch, Armies in Europe, 21, 25-26, 69-70.

119. J.W. Fortescue, <u>A History of the British Army</u> (8 vols.; London: 1898-1930), I, 384-389, II, 15-26;

Lieutenant-Colonel John S. Omon, The Army and Parliament (Cambridge, U.K.: 1933), 15-40; Carelli Barnett, Britain and Her Army, 1509-1970 A Military, Political and Social Survey (New York: 1970), 166-170; Lawrence Delbert Cress, "Radical Whiggery on the Role of the Military: Ideological Roots of the American Revolutionary Militia," Journal of the History of Ideas XL (January-March 1979), 143-160; J.G.A. Pocack, "Machiavelli, Harrington, and English Political Ideologies in the Eighteenth Century," William and Mary Quarterly XXII third series (October 19965), 549-583; E. Arnold Miller, "Some Arguments Used by English Pamphleteers 1697-1700, Concerning A Standing Army," Journal of Modern History XVII (December 1946), 303-313; Louis G. Schowoerer, "The Literature of the Standing Army Controversy, 1697-1699," Huntington Library Quarterly XXVII (May 1965), 187-212; Cress, Citizens in Arms, 15-33.

120. Cress, "Radical Whiggery," 43-60; A.J. Barker, <u>Redcoats</u> (London: 1976), 121-132; Richard H. Kohn, <u>Eagle</u> and Sword the Federalists and the Creation of the Military <u>Establishment in America 1783-1802</u> (New York: 1975), <u>passim</u>.; Brigadier-General Williston B. Palmer, "American Policy on Raising Armies," in the <u>Evolution of Military</u> <u>Policy of the United States</u> (Carlisle Barracks: 1946), 21-24; Skelton, <u>U.S. Army</u>, 1-2; Mahan, <u>Militia/National Guard</u>, 14-34; John K. Mahon, <u>The American Militia: Decade of</u> <u>Decision, 1789-1800</u> (Gainesville: 1960), 2-7; Cunliffe, (Philadelphia: 1821), 178-187; <u>U.S. Statutes at Large</u>, III, 615-616.

104. American State Papers, Military Affairs, III, 821.

105. William B. Skelton, "The Commanding General and the Problem of Command in the United States Army, 1821-1841," <u>Military Affairs XXXI</u> (December 1970), 117-122; Skelton, <u>U.S. Army</u>, 34-43, 124-130; Lieutenant-Colonel J.D. Hittle, <u>The Military Staff, Its History and Development</u> (Harrisburg: 1944), 159-166.

106. Captain Auguste F. Lendy, <u>Maxims, Advice and</u> <u>Instructions on the Art of War</u>, et. al. (New York: 1862), 13-14.

107. Huntington, "Equilibrium and Disequilibrium," 486.

108. Dallas D. Irvine, "The Origins of Capital Staffs," Journal of Modern History X (June 1938), 161-179; Hittle, Military Staff, 29-40; Ropp, <u>War</u>, 133-139; Goerlitz, <u>German</u> <u>General Staff</u>, 2-36.

109. Comte de Orleans Paris, Louis Philippe Albert, <u>History of the Civil War in America</u> (3 vols.; Philadelphia: 1875), I, 26-28; Craighill, <u>Pocket Companion</u>, 12-17; MacDougall, <u>Theory of War</u>, 34-35; Captain Thomas James Thackery, <u>The Military Organization and Administration of</u> <u>France</u> (2 vols.; London: 1856), <u>passim</u>.; also see as well, Arpod Kovacs, "French Military Institutions Before the Franco-Prussian War," <u>American Historical Review</u> LI (January 1946), 217-235. 110. Robinson, Organization/U.S. Army, 79.

111. Major-General George B. McClellan, <u>McClellan's Own</u> <u>Story: The War for the Union</u>, et. al. (New York: 1887), 112; also see, Graham, <u>Art of War</u>, 173-174; MacDougall, Theory of War, 20-29.

112. MacDougall, Modern Warfare, 181.

113. Hittle, <u>Military Staff</u>, 56-96; Dallas D. Irvine, "French and Prussian Staff Systems Before 1870," <u>Military</u> Affairs, II (Winter 1938), 197-203.

114. Connolly, "General Staff," 222-229; Major-General James Murphy, "The Evolution of the General Staff Concept," Defense Management Journal XII (July 1976), 34-39.

115. (A Subaltern), "Notes on Our Army," Southern
Literary Messenger X (1844), 86-87.

116. Skelton, <u>U.S. Army</u>, <u>passim</u>.; Ingersoll, <u>War</u> Department, <u>passim</u>.; Weigley, <u>U.S. Army</u>, passim.

117. John O'Brien, <u>A Treatise on American Military Laws</u> and the Practice of Courts Martial, et. al. (Philadelphia: 1846), 30-43.

118. Hittle, <u>Military Staff</u>, 69-84; Nickerson, <u>Armed</u> <u>Horde</u>, 91-137; Spencer Wilkinson, <u>The Brain of an Army: A</u> <u>Popular Account of the German General Staff</u> (Westminster: 1895), 58-67; Smith, <u>U.S. Military Doctrine</u>, 50-54; Gooch, <u>Armies in Europe</u>, 21, 25-26, 69-70.

119. J.W. Fortescue, <u>A History of the British Army</u> (8 vols.; London: 1898-1930), I, 384-389, II, 15-26;

Lieutenant-Colonel John S. Omon, The Army and Parliament (Cambridge, U.K.: 1933), 15-40; Carelli Barnett, Britain and Her Army, 1509-1970 A Military, Political and Social Survey (New York: 1970), 166-170; Lawrence Delbert Cress, "Radical Whiggery on the Role of the Military: Ideological Roots of the American Revolutionary Militia," Journal of the History of Ideas XL (January-March 1979), 143-160; J.G.A. Pocack, "Machiavelli, Harrington, and English Political Ideologies in the Eighteenth Century," William and Mary Quarterly XXII third series (October 1965), 549-583; E. Arnold Miller, "Some Arguments Used by English Pamphleteers 1697-1700, Concerning A Standing Army," Journal of Modern History XVII (December 1946), 303-313; Louis G. Schowoerer, "The Literature of the Standing Army Controversy, 1697-1699," Huntington Library Quarterly XXVII (May 1965), 187-212; Cress, Citizens in Arms, 15-33.

120. Cress, "Radical Whiggery," 43-60; A.J. Barker, <u>Redcoats</u> (London: 1976), 121-132; Richard H. Kohn, <u>Eagle</u> and Sword the Federalists and the Creation of the Military <u>Establishment in America 1783-1802</u> (New York: 1975), <u>passim</u>.; Brigadier-General Williston B. Palmer, "American Policy on Raising Armies," in the <u>Evolution of Military</u> <u>Policy of the United States</u> (Carlisle Barracks: 1946), 21-24; Skelton, <u>U.S. Army</u>, 1-2; Mahan, <u>Militia/National Guard</u>, 14-34; John K. Mahon, <u>The American Militia: Decade of</u> <u>Decision, 1789-1800</u> (Gainesville: 1960), 2-7; Cunliffe, Soldiers & Civilians, 50-52; Hassler, Shield and Sword, 48; Gary Huxford, "Origins of the American Military Tradition Reconsidered," <u>Rocky Mountain Social Science Journal</u> VII (no. 2) (October 1971, 120-121.

121. Kohn, Eagle and Sword, 2.

122. American State Papers, Military Affairs, X, 141.

123. Benjamin F. Butler, <u>The Military Profession of the</u> <u>United States</u>, et. al. (New York: 1839), 8; also see, Adland Welly, <u>A Visit to North America and the English</u> <u>Settlements</u>, et. al., in Ruben Gold Twaites, compl., <u>Early</u> <u>Western Travels 1748-1846</u> (32 vols.; Cleveland: 1904-1907), XII, 304.

124. Captain M.W. Beeriman, <u>The Militia's Manual and</u> <u>Sword-Play</u>, et. al. (New York: 1864), I-II; Nathan C. Brooks, <u>A Complete History of the Mexican War: Its Cause</u>, Conduct and Consequences, et. al.

125. William H. Summer, <u>An Inquiry into the Importance</u> of the Militia to a Free Commonwealth (Boston: 1823), 7-8.

126. Ibid.

127. Eastwick Evans, <u>A Predestrious Tour, of Four</u> <u>Thousand Miles, Through the Western States and Territories</u>, et. al., in Twaites, compl., <u>Early Western Travels</u>, VIII, 168.

128. Philip St. George Cooke, <u>Scenes and Adventure in</u> the Army or Romance of Military Life (Philadelphia: 1857), 216-217. 129. J. Roemer, <u>Cavalry:</u> Its History, <u>Management</u>, and <u>Uses in War</u> (New York: 1863), 26-27; also see, "Esprit de Corps," <u>Military and Naval Magazine of the United States</u> II (December 1833): 231-235; Hoyt, Military Art, 15.

130. Army and Navy Chronicle, II (February 25, 1836), 116-117.

131. Cooke, Scenes and Adventures, 158.

132. "Militia of the United States," <u>Military and Naval</u> <u>Magazine of the United States</u> I (June, July, August 1833): 235.

133. United States Military Philosophical Society <u>Extracts</u> (December 28, 1809), 5; "The Army," <u>Military and</u> <u>Naval Magazine of the United States</u> I (August 1833), 333-339; "Spirit and Progress," 8-9.

134. John K. Mahon, "A Board of Officers Considers the Condition of the Militia in 1826," <u>Military Affairs</u> V (1951): 185-194; Mahon, <u>Militia/National Guard</u>, 46-94; Mahon, <u>American Militia</u>, 15-45; "Militia of the United States (1826 Board of Officers Report)," <u>Military and Naval</u> <u>Magazine of the United States</u> I (April, June, July 1833): 1-83, 235-243, 269-280; Paul T. Smith, "The Militia of the United States from 1846 to 1860," <u>Indiana Magazine of</u> <u>History and Biography</u> XV (March 1919): 20-47; Robert F. McGraw, "Minutemen of 61: the Pre-Civil War Massachusetts Militia," <u>Civil War History</u> XV (June 1969), 101-115; Ingersoll, War Department, 49-52; Cunliffe, Soldiers & <u>Civilians</u>, 186-241; Skelton, <u>U.S. Army</u>, 318-325; Cyril B. Upham, "Historical Summary of the Militia in Iowa, 1838-1865," <u>Iowa Journal of History and Biography</u> XVII (July 1919), 299-405; Joseph Holmes, "The Decline of the Pennsylvania Militia 1815-1870," <u>Western Pennsylvania</u> <u>Magazine</u> VII (April 1924), 199-212; "National Defense," 123; Watson, "Congressional Attitudes," 611-612; Palmer, "American Policy," 25-26; "Military Reforms," <u>New England</u> <u>Magazine</u> VII (July 1834), 51-59; Richard G. Stone, <u>A Brittle</u> <u>Sword: the Kentucky Militia, 1776-1912</u> (Lexington: 1977), 36-60.

Footnotes

Chapter II

1. Emil Schalk, <u>Summary of the Art of War: Written</u> <u>Expressly and Dedicated to the U.S. Volunteer Army</u>, (Philadelphia: 1862), 9.

2. Strachan, European Armies, 60-75.

3. "On War," (A Review from the London Metropolitan (June 1834) Military and Naval Magazine of the United States VI (September 1836), 50-65. <u>United States Military</u> Philosophical Society Extracts (January 30, 1808), 12.

4. In general, see: Jomini, <u>Art of War</u>, <u>passim</u>., Jomini, <u>Practice of War</u>, <u>passim</u>.; also see, H. Wagner Halleck, <u>Elements of Military Science</u>, et. al. (New York: 1861), 35-60, 131-132; Pierre G.T. Beauregard, <u>Principles</u> <u>and Maxims of the Art of War</u>, et. al. (3rd ed.; New Orleans: 1890), 3-12; Major-General M.W.S. Smith, <u>Modern Tactics of</u> <u>the Three Arms</u> (London: 1869), 54-120; Graham, <u>Art of War</u>, 2-33, 196-202; Magrath, <u>Art of War</u>, 2-4, 155-160; MacDougall, <u>Theory of War</u>, 2-52; C.P. Kingsbury, <u>An</u> <u>Elementary Treatise on Advanced Guard, Out-Post, and</u> <u>Detachment Service of Troops</u>, et. al. (New York: 1853), 29-32; for secondary sources, see, Hagerman, "Evolution of Trench Warfare," 197-202; Edward H. Hagerman, The Evolution of Trench Warfare and the American Civil Warfare (Ph.D. dissertation, Duke University, 1965), II-III, 5-20; Holyroyd, "Bourbon Army," 529-552; John I. Alger, The Quest for Victory the History of the Principles of War (Westport: 1982), 19-44; Ropp, War, 132-133; Lieutenant-General von Caemmerer, The Development of Strategical Science in the 19th Century (London: 1905), 29-65; Crane Brinton, Gordon A. Craig and Felix Gilbert, "Jomini", in Edward Meade Earle, ed., Makers of Modern Strategy Military Thought from Machiavelli to Hitler (Princeton: 1944), 77-92; Michael Howard, The Theory and Practice of War Essays Presented to Captain B.H. Liddell Hart, et. al. (New York: 1966), 3-20; Liddell Hart, Napoleon, 104-118; B.H. Liddell Hart, Strategy, the Indirect Approach (New York: 1954), 113-145; Jay Luvass, "Military History: Is It Still Practicable?" Parameters XIV (May 1982), 5-6; John R. Elting, "Jomini: Disciple of Napoleon?" Military Affairs XXVIII (Spring 1964), 17-26; George Allen, "The Life of Jomini," United States Service Magazine II (October 1864), 351-364; M.D. Field, "Middle Class Society and the Rise of Military Professionalism in the Dutch Army, 1589-1609," Armed Forces and Society I (August 1975): 419-442; Strachan, European Armies, 60-75; David Chandler, The Art of Warfare on Land (London: 1974), 173.

5. "Militia (Board of Officers)", 237; U.S. Military Philosophical Society Extracts (January 30, 1808), 12; Childs, <u>Armies and Warfare</u>, passim.; Westerner, "Armies," 190-217; Scott, "Professionalization/French Officer Corps," 5-56; Bein, "Army/French Enlightenment," 68-98; Lyman Montross, <u>War Through the Ages</u> (New York: 1944), 313-420; Martin Kitchen, <u>A Military History of Germany from the</u> <u>Eighteenth Century to the Present Day</u> (Bloomington: 1975), 7-28; Strachan, <u>European Armies</u>, 8-37.

6. Nickerson, Armed Horde, 40-52; Steven Ross, From Flintlock to Rifle Infantry Tactics, 1740-1866 (London: 1979), 13-36; Field Marshal, Viscount of El Alamein, Bernard Montgomery, A History of Warfare (Cleveland: 1968), 263-274, 322-330; H.W. Koch, The Rise of Modern Warfare 1618-1815 (Englewood Cliffs: 1981), 17-18, 29-32; Colonel Herman Foertscer, The Art of Modern Warfare (New York: 1940), 64-70; G.C. Shaw, Supply in Modern War (London: 1938), 23-50; David Maland, Europe at War 1600-1650 (Tatowa: 1980), passim.; Hackett, Profession of Arms, 17-25; Howard, War/European History, 46-50, 56-71; McNeill, Pursuit of Power, 122-141, 154-159; Chandler, Art of War, 103-149; Geoffrey Parker, "The Military 'Revolution' 1560-1650, a Myth?:" Journal of Military History XLVIII (June 1976): 195-214; Goltz, Nation in Arms, 3-5; Liddell Hart, Napoleon, 16-19; John W. Wright, "Sieges and Customs of War at the Opening of the Eighteenth Century," American Historical Review XXXIX (July 1934), 629-644; Colonel Theodore Ayroult Dodge, Gustavas Adolphus: A History of the Art of War from

its Revival after the Middle Ages to the End of the Spanish Succession, et. al. (2 vols.; Boston: 1895), I, 20-36; Roberts, <u>Military Revolution</u>, <u>passim</u>.; Fortescue, <u>British</u> <u>Army</u>, I, 127-172; Montross, <u>War</u>, 313-327; Commandant J. Colin, <u>France and the Next War A French View of Modern War</u> (London: 1914), 4-7; Colonel Treveor N. Dupuy, <u>The</u> <u>Evolution of Weapons and Warfare</u> (Indianapolis: 1980), 133-138; Christopher Duffy, <u>Siege Warfare the Fortress in the</u> <u>Early Modern World 1494-1660</u> (London: 1970), <u>passim</u>.; J.V. Polisvensky, <u>War and Society in Europe 1618-1648</u> (Cambridge: 1978), passim.

7. Vatell, <u>Law of Nations</u>, II, 235; <u>Ibid</u>., II, 245; <u>U.S. Military Philosophical Society Extracts</u> (December 30, 1809), 12, 13; Graham, <u>Art of War</u>, 7; "Modern Tactics," 1, also see, Magrath, <u>Art of War</u>, 3-4; Reginald C. Stewart, <u>War</u> <u>and American Thought from the Revolution to the Monroe</u> <u>Doctrine</u> (Kent: 1982), 1-30; Edward D. Mansfield, <u>The</u> <u>Utility and Services of the United States Military Academy</u> (New York: 1847), 20; Jomini, <u>Practice of War</u>, 70.

8. Jomini, Practice of War, 70.

9. Jacob K. Neff, <u>The Army and Navy of America</u>, et. al. (Philadelphia: 1845), 11.

10. Halleck, <u>Military Art</u>, 39, 43; Parker, "'Military Revolution'," 195-214; Captain Ed. De La Deparcq, <u>Elements</u> <u>of Military Art and History</u>, et. al. (New York: 1863), 47-67; Baron de Jomini, <u>Treatise on Grand Military Operations</u> or a Critical and Military History of the Wars of Frederick the Great, et. al. (2 vols.; New York: 1865), passim.; Smith, Modern Tactics, 34-45; Dodge, Gustavas Adolphus, I, 30-39; Colonel E.M. Lloyd, <u>A Review of the History of</u> Infantry (London: 1908), 83-88, 107-111, 151-156, 174-175; Montgomery, Warfare, 263-274, 233-327; John U. Neff, War and Human Progress an Essay on the Rise of Industrial Civilization (Cambridge: 1950), 251-267, 306-310; Montross, War, 313-327, 380-403; Nickerson, Armed Horde, 40-52; Ross, Flintlock to Rifle, 13-36; Captain Archibald F. Becke, An Introduction to the History of Tactics 1740-1905 (London: 1909), 3-15; Foertsch, Modern War, 64-70; Magrath, Art of War, 140-153; Colin, France/Next War, 6-32; Baker, Redcoats, 9-14, 19-29; Fortescue, British Army, I, 127-190; Chandler, War, 103-146; J. Koch, Warfare 1618-1815 (Englewood Cliffs: 1981), 17-18, 29-37, 138=163; Westerner, "Armies", 190-217; Gooch, Armies, 16-20; Millis, Arms and Men, 16-21; Preston and Wise, Men In Arms, 133-145; Herbert Rosinski, The German Army (New York: 1940), 7-41; Parker, "'Military Revolution'," 195-214; Ropp, War, 19-42; Kitchen, Military History of Germany, 17-28; Howard, War/European History, 46-70; Colonel J.F.C. Fuller, British Light Infantry Tactics in the Eighteenth Century (London: 1925), 26-28, 31-34, 61-75. Napoleon, Napoleon's Maxims of War the Officers Manual (New 1957), passim.; Quimby, Background of Napoleonic York: Warfare, passim.; Nickerson, Armed Horde, 74-125; Montgomery, <u>Warfare</u>, 345-362; Sir Charles Oman, <u>Studies in</u> <u>the Napoleonic Wars</u> (London: 1929), passim.; Rose, <u>Flintlock to Rifle</u>, 69-79, 81-88; Beck, <u>History of Tactics</u>, 13-88; Jeffery Kimball, "The Battle of Chippewa: Infantry Tactics in the War of 1812," <u>Military Affairs XXI</u> (Winter 1967-1968), 169-186; Alger, <u>Quest for Victory</u>, 17-18; Gunter F. Rothenberg, <u>The Art of War in the Age of Napoleon</u> (Bloomington: 1980), <u>passim</u>.

11. Caemmerer, <u>Strategical Science</u>, 11-17; Preston and Wise, <u>Men in Arms</u>, 182-200; Collins, <u>France/ Next War</u>, 94-111; Crevald, <u>Supplying War</u>, 49-55; Commandant J. Collins, <u>The Transformation of War</u> (reprint; Westport: 1977 (1912)), 109-119; Montross, <u>War</u>, 450-458; Harold T. Parker, <u>Three</u> <u>Napoleonic Battles</u> (Durham: 1944), passim.

12. R.M. Johnston, "The Geometrical Factor in Napoleon's Generalship," <u>Papers of the Military Historical</u> <u>Society of Massachusetts XIV (1918), 423-433; Kendall, Land</u> <u>Warfare, 121-140; Hackett, Profession of Arms, 29-35.</u>

13. Strachan, <u>European Armies</u>, 38-58; Pivka, <u>Armies/Napoleonic Era</u>, 83-86; Count York von Wartenburg, <u>Napoleon as a General</u> (2 vols.; s.l.: 1898), <u>passim</u>.; David Chandler, <u>Campaigns of Napoleon</u> (New York: 1956), <u>passim</u>.; Chandler, <u>War</u>, 149-154; John Keegan, <u>Face of Battle</u> (New York: 1976), 144-195.

14. Liddell Hart, <u>Napoleon</u>, 104-118; Grady McWhiney and Perry P. Jamieson, <u>Attack and Die Civil War Military</u> Tactics and the Southern Military Heritage (s.l.: 1982), 1-54; Huntington, Soldier and State, 1-32, 195-220; Rothenberg, "Austrian Army," 155-165; Preston and Wise, <u>Men</u> <u>In Arms</u>, 133-149, 182-196, 208-210; Wilkinson, <u>French Army</u>, 14-15; Fuller, <u>Conduct of War</u>, 44-55, 100-112; note, Hattaway and Jones, <u>How the North Won</u>, 14, hopelessly confused the use of the turning movement by American Jominianists such as Halleck and Beauregard, in their writings, with an alleged opposition to the frontal assault.

15. Caemmerer, Strategic Science, 76-111; Liddell Hart, Napoleon, 118-144; H. Rathfels, "Clausewitz: in Edwards, Modern Strategy, 96-113; Wilkerson, French Army, 16-17; Luvaas, "Military History," 6; B.M. Simpson, III, "The Essential Clausewitz," Naval War College Review XXXV (March-April 1982), 54-61; General Ferdinand Foch, The Principles of War (New York: 1918), 1-47; Captain H.M. Johnstone, The Foundations of Strategy (London: 1914), passim.; Peter Paret, Clausewitz and the State (New York: 1976), passim.; Gooch, Armies, 38-41; Peter Paret, "Education, Politics, and War in the Life of Clausewitz," Journal of the History of Ideas XXIX (July-September 1968), 394-408; Peter Paret, "Nationalism and the sense of Military Obligation," Military Affairs XXXIV (February 1970), 2-6; Peter Paret, York and the Era of Prussia Reform 1807-1815 (Princeton: 1966), passim.; Denis E. Showalter, "The

Prussian Landwehr and its Critics: 1813-1819," <u>Central</u> European History IV (March 1971), 3-33.

16. Peter Paret, "Clausewitz and the Nineteenth Century," Howard, Theory and Practice, 32-41; Strachan, European Armies, 90-107; Gorlitz, German General Staff, 25-68; Ropp, War, 114-119, 134-142; Bernard Brodie, "On Clausewitz: A Passion for War," <u>World Politics</u> XX (January 1973), 288-308; Lieutenant-Colonel Edward M. Collins, "Clausewitz and Democracy's Small Wars," Military Affairs XIX (Spring 1955), 115-120; Michael Howard, "The Forgotten Dimensions of Strategy," Foreign Affairs LVII (Summer 1979), 975-976; Herbert Rosinski, "Scharnhorst to Schlieffen: The Rise and Decline of German Military Thought," Naval War College Review XXIX (Summer 1976), 83-103; Craig, Prussian Army, 25-46; Kitchen, Military History/Germany, 33-71; Rosinski, Germany Army, 66-85; Roger Parkinson, Clausewitz: A Biography (London: 1970), 96-110; Colonel T.N. Dupuy, A Genius for War the German Army and General Staff 1807-1945 (Englewood Cliffs: 1977), 17-43.

17. For supporters of this position, see: David Donald, <u>Lincoln Reconsidered</u> (New York: 1956), 89, 87-102; T. Harry Williams, "The Military Leadership of North and South," in David, Donald, ed. <u>Why the North Won the Civil</u> <u>War</u> (s.l.: 1960), 23-47; Pohl, "Jomini/Scott", 86-110; Hagerman, "From Jomini to Dennis Hart Mahan", 189-199; Edward Hagerman, "The Professionalization of George B.

257

McClellan and Early Field Command: An Institutional Prospective," <u>Civil War History</u> XXII (June 1975), 113-115; Russel F. Weigley, <u>Towards an American Army Military Thought</u> <u>from Washington to Marshal</u> (New York: 1962), 5067; the opposing (and I believe historically unsound position) is presented in: Hattaway and Jones, <u>How the North Won</u>, 12-14, 21-24; McWhiney and Jamieson, <u>Attack and Die</u>, 151-154; Joseph L. Harsh. "Broadsword and Rapier: Clausewitz, Jomini, and the American Civil War," <u>Military Affairs</u> XXVIII (December 1970), 127-131; for a direct criticism of the position that Jomini was not influential on American military thinking or was an effective strategist as regards the Civil War, see, T. Harry Williams, "The Return of Jomini? -- Some Thoughts on Recent Civil War History," <u>Military History XXIX</u> (December 1975), 204-206.

_18. United States War Department, Infantry Tactics (Washington, D.C.: 1836), <u>passim.</u>; <u>Army and Navy Chronicle</u> I (1835-1836), 101, 119-120, 126, 133-134, 270; "Military Tactics", <u>Military and Naval Magazine of the United States</u> VI (September 1835), 166-178. United States War Department, <u>Rules and Regulations for the Field Exercise and Manoeuvres</u> <u>of the Infantry</u>, et. al. (Concord: 1817), <u>passim</u>.; also see, for a precise statement of the function of drill in the Antebellum ed., John Holbrook, compl., <u>Military Tactics</u>: <u>Applied to the Different Corps in the United States</u>, et. al. (Middletown: 1826), 15-19. 19. Roemer, <u>Cavalry</u>, 37, 22-23. Colonel J.F.R. Henderson, <u>The Science of War A Collection of Essays and</u> <u>Lectures 1892-1903</u> (London: 1905), 51-61; James P. Lunt, <u>Charge to Glory</u> (New York: 1960), 31-37; Major-General J.F.C. Fuller, <u>Armaments and History</u> (New York: 1945), 109-118; Colonel George T. Denison, <u>A History of Cavalry from</u> <u>the Earliest Times With Lessons for the Future</u> (reprint; London: 1913), 420-430; Fuller, <u>Conduct of War</u>, 104-130; John Ellis, <u>Cavalry the History of Mounted Warfare</u> (New York: 1978), 140-150.

20. Count von Bismark, <u>Lectures on the Tactics of</u> <u>Cavalry</u> (London: 1827), 41-42; Ellis, <u>Cavalry</u>, 81-82; Denison, <u>Cavalry</u>, 210-214; B.H. Liddell Hart, <u>The Decisive</u> <u>Wars of History: A Study in Strategy</u> (Boston: 1929), 57-59; Ropp, <u>War</u>, 23-29; Liddell Hart, <u>Napoleon</u>, 16-17; McNeill, <u>Pursuit of Power</u>, 122-125; Koch, <u>Warfare</u>, 29-37; Dupuy, <u>Weapons and Warfare</u>, 133-140; Dodge, <u>Gustavus</u> <u>Adolphus</u>, I, 40-41.

21. Ellis, <u>Cavalry</u>, 82-84; Bismark, <u>Lectures</u>, 41-42; Denison, <u>Cavalry</u>, 214-217; Strachan, <u>European Armies</u>, 16-17; Dupuy, Weapons and Warfare, 134-135.

22. Captain L.E. Nolan, <u>Cavalry, Its History and</u> <u>Tactics</u> (Columbia: 1864), 18-22; Magrath, <u>Art of War</u>, 146-147, 153-154; Beck, <u>Tactics</u>, 9-10; Preston and Wise, <u>Men in</u> <u>Arms</u>, 133-149; Koch, <u>Warfare</u>, 138-163; J.M. Brereton, <u>The</u> Horse in War (New York: 1976), 69-71; Liddell Hart, <u>Napoleon</u>, 18-19; Christopher, <u>The Army of Frederick The</u> <u>Great</u> (New York: 1974), 93-109; Ropp, <u>War</u>, 29-31; Rosinski, <u>German Army</u>, 7-41; Colonel T.N. Dupuy, <u>A Genius for War the</u> <u>German Army and General Staff 1807-1945</u> (Englewood Cliffs: 1977), 12-16.

23. Roemer, <u>Cavalry</u>, 331-336; Ellis, <u>Cavalry</u>, 92-100; Duffy, <u>Frederick The Great</u>, 96-103; Brereton, <u>The Horse</u>, 69-71.

24. Ellis, Cavalry, 43; Bismark, Lectures, 43.

25. Nolan, <u>Cavalry</u>, 23-25; Denison, <u>Cavalry</u>, 284-299; Preston and Wise, <u>Men in Arms</u>, 184-197; Fuller, <u>Armament</u>, 106-107; Fuller, <u>Conduct of War</u>, 44-52; Koch, <u>Warfare</u>, 191-237; Brereton, <u>The Horse</u>, 75-77; Cyril Falls, <u>The Art of</u> <u>Warfare from the Age of Napoleon to the Current Day</u> (New York: 1961), 44-52; William McElwee, <u>The Art of War</u>, <u>Waterloo to Mons</u> (Bloomington: 1974), 14-25; Strachan, <u>European Armies</u>, 41-42, 50; Nickerson, <u>Armed Horde</u>, 74-77; James Lunt, "Napoleon's Cavalry," <u>History Today</u> V (November), 747-759; Lunt, <u>Charge</u>, 25-27; Quimby, <u>Background</u> to Napoleonic Warfare, 133-138.

26. Jomini, Art of War, 280.

27. Bismark, Lectures, 139-140.

28. Ibid., 141.

29. Jomini, <u>Art of War</u>, 280; Halleck, <u>Elements</u>, 28; Mahan, Outpost, 57. 30. Captain C.M. Wilcox, <u>Rifles and Rifle Practice:</u> <u>An Elementary Treatise Upon the Theory of Rifle Firing</u>, et. al. (New York: 1859), 167-174; Jerrold, <u>French Under Arms</u>, 109-110; Lunt, <u>Charge</u>, 28-29; Major Alfred Mordecai, <u>Military Commission to Europe in 1855 and 1856</u>, et. al. (Washington, D.C.: 1860), 157-160; T.H. McGuffie, "Musket and Rifle," <u>History Today</u> VII (April, July 1957), 472-475; Rothenberg, <u>Art of Warfare</u>, 72-73; Major Arcadi Glickman, <u>United States Martial Pistols and Revolvers</u> (Buffalo: 1939), 73-87; Fuller, Armament, 106-111.

31. Lieutenant-Colonel George T. Denison, <u>Modern</u> <u>Cavalry: Its Organization, Armament and Employment in War</u>, et. al. (London: 1868), 6.

32. Mahan, Outpost, 44.

33. Halleck, Elements, 128.

34. Nolan, <u>Cavalry</u>, 75; very strong support for the lance was voiced in Marmont, Modern Armies, 36-39.

35. Bismark, Lectures, 141.

36. Ibid.

37. Denison, <u>Modern Cavalry</u>, 39; T.H. McGuffie, "The Lance in Battle," <u>History Today</u> VIII (August 1958), 574-580; "The Lance," <u>Journal of the United States Cavalry</u> <u>Association</u> III (June 1890), 210-216.

38. Schalk, <u>Art of War</u>, 61-62; Marmont, <u>Modern Armies</u>, 38-39; Captain G.B. Pritchard, "The Saber," <u>Journal of the</u> U.S. Cavalry Association XVIII (January 1908), 521-535; Jean de Bloch, <u>The Future of War</u>, et. al. (Boston: 1899), 11-14; Nickerson, <u>Armed Horde</u>, 145-152; Dupuy, <u>Weapons and Warfare</u>, 191-193; Fuller, <u>Armament</u>, 106-111; also see, in general, Harold L. Peterson, <u>The American Sword 1745-1945</u>, et. al. (New York: 1954).

39. Denison, <u>Cavalry</u>, 426; Denison, <u>Modern Cavalry</u>, 29; Buckholtz, <u>Tactics</u>, 27; Craighill, <u>Pocket Companion</u>, 71-72; Bismark, <u>Lectures</u>, 139-140; Ellis, <u>Cavalry</u>, 85-86; Prince Zu Hohen-Lohe-Inglefingen Kraft, "Lessening the Field of Cavalry Work in Battle through the Improvements in Firearms," <u>Journal of the U.S. Cavalry Association</u> II (March 1889), 66-73.

40. Craighill, <u>Pocket Companion</u>, 76-83, 179-188; also see the following cavalry manuals: Frederich von Arenschidt, <u>Instructions for Officers and Non-Commissioned</u> <u>Officers of Cavalry</u>, et. al. (Richmond: 1861); Philip St. George Cooke, <u>Tactics or Regulations for Motions and</u> <u>Movements of the Cavalry</u>, et. al. (2 vols.; Washington, D.C.: 1862); Samuel Cooper, <u>Cooper's Cavalry Tactics for</u> <u>the use of Volunteers</u>, et. al. (New Orleans: 1861); Robert Hewes, <u>Rules and Regulations for the Sword Exercise of the</u> <u>Cavalry</u>, et. al. (2d ed.; Boston: 1802); D.H. Maury, <u>Skirmish Drill for Mounted Troops</u> (Richmond: 1861); Major-General George B. McClellan, <u>Regulations for the Service of</u> <u>Cavalry in Time of War</u> (Philadelphia: 1863); George Patten, <u>Cavalry Drill and Saber Exercise</u>, et. al. (Richmond: 1862); Colonel James B. Swan, Rules, Regulations, Forms and Suggestions for the Instruction and Guidance of the U.S. Cavalry (New York: 1863); United States War Department, Cavalry Tactics School of the Trooper, of the Platoon, and the Squadron (3 vols.; Philadelphia: 1861); United States War Department, Cavalry Tactics, First and Second Parts, School of the Trooper, et. al. (Washington, D.C.: 1863); Major Joseph Wheeler, A Revised System of Cavalry Tactics, (Mobile: 1863); also see, J. Reedstrom, "U.S. et. al. Cavalry Tactical Manuals," in United States Commission on Military History, Colloquium on Military History Proceedings (Chicago: 1979), 74-84; see as well, Colonel Francis J. Lippet, A Treatise on the Tactical Use of the Three Arms: Infantry, Artillery, and Cavalry (New York: 1865), 93-134.

41. Nolan, Cavalry, 60.

42. Roemer, <u>Cavalry</u>, 38-39; also see, Mahan, <u>Outpost</u>, 43-44; Jomini, <u>Art of War</u>, 280-281; Marmont, <u>Modern Armies</u>, 35.

43. Denison, <u>Modern Cavalry</u>, 210-211; Jomini, <u>Art of</u> <u>War</u>, 280-281; Marmont, <u>Modern Armies</u>, 35-36; Magrath, <u>Art of</u> War, 138-139.

44. Colonel J. Lucas Davis, <u>The Trooper's Manual on</u> <u>Tactics for Light Dragoons and Mounted Riflemen</u> (Richmond: 1861), VIII; see as well, Denison, <u>Modern Cavalry</u>, 10-11, 210-211; Jomini, <u>Art of War</u>, 282-283; Major E.T.H. Hutton, "Mounted Infantry--Its Present and Its Future Use," Journal of the Military Service Institutions of the United States X (1889), 340-356; Captain J.R. Lumley, "Mounted Riflemen," Ordnance Notes no. 169 (November 2, 1881), 1-14.

45. Mahan, <u>Outpost</u>, 44; see as well, Nolan, <u>Cavalry</u>, 48-52; Denison, <u>Cavalry</u>, 284-285; Marmont, <u>Modern Armies</u>, 34; Brereton, <u>The Horse</u>, 74-76.

46. Cooke, <u>Scenes and Adventures</u>, 265; Major William Gelhorn, <u>Manual of Instruction for the Volunteers and</u> Militia of the United States (Philadelphia: 1861), 697.

Roemer, <u>Cavalry</u>, 137; also see, Lendy, <u>Maxims</u>,
 156-163.

48. Buckholtz, <u>Tactics</u>, 26-27; Roemer, <u>Cavalry</u>, 135-137; Mahan, <u>Outpost</u>, 39.

49. Bismark, Lectures, 72.

50. Captain Emric Szabad, <u>Modern War: Its Theory and</u> <u>Practice</u> (New York: 1863), 67.

- 51. Roemer, Cavalry, 62.
- 52. Nolan, Cavalry, 135.
- 53. Mahan, Outpost, 38-39; Marmont, Modern Armies, 34.
- 54. Halleck, Elements, 125; Napoleon, Maxims, 136.
- 55. Napoleon, Maxims, 136.
- 56. Roemer, Cavalry, 62.
- 57. Ibid., 63.
- 58. Bismark, Lectures, 63.
- 59. Nolan, Cavalry, V.

60. Norman Dixon, <u>On the Psychology of Military</u> <u>Incompetence</u> (New York: 1976), 116.

61. Roemer, Cavalry, 37, 22-23.

62. Buckholtz, Tactics, 26.

63. Nolan, Cavalry, V; Mahan, Outpost, 39.

64. Roemer, <u>Cavalry</u>, 25; also see, Major M.I. Dunn, <u>A</u>

Military Pocket Manual for Military Officers (Cincinnati:

1837), 7; Jomini, Art of War, 277.

65. "Army of the U.S.", 27.

66. Clausewitz, On War, 285-291.

Footnotes

Chapter III

1. Charles Francis Adams, <u>Studies Military and</u> <u>Diplomatic 1775-1868</u> (New York: 1911), 59-113.

2. "Army of the U.S.", 26.

3. Thomas Thiele, <u>The Evolution of Cavalry in the</u> <u>American Civil War, 1861-1863</u> (Ph.D. dissertation, University of Michigan, 1951), 4-6; Skelton, <u>U.S. Army</u>, 341-342; Wormser, <u>Yellowlegs</u>, 36-39; Major Albert Gallatin Brackett, <u>History of the United States Cavalry</u> (New York: 1865), 14-33; Major-General John K. Herr and Edward S. Wallace, <u>The</u> <u>Story of the United States Cavalry 1775-1942</u> (Boston: 1953), 21-22.

4. "Military Establishment", 77.

5. The Legion, derived from French Military theory, was a precursor of the division, more correctly, a combined arms battle group, somewhat larger than a brigade.

6. Jacobs, <u>U.S. Army</u>, passim; also see, Richard Wormser, <u>The Yellowlegs the Story of the United States</u> <u>Cavalry</u> (Garden City: 1966), 36-39; Alan S. Brown, "The Role of the Army in Western Settlement: Josiah Harmon's Command, 1785-1790." <u>Pennsylvania Magazine of History and</u> Biography XCIII (April 1969), 161-178; Roger C. Nichols,

266

"The Army and the Indians 1800-1830 - A Reappraisal: The Mississippi Valley Example", <u>Pacific Historical Review</u> LXI (May 1972), 151-156; Craig Symonds, "The Failure of America's Indian Policy on the Southwestern Frontier, 1785-1793", <u>Tennessee Historical Quarterly</u> XXXV (Spring 1976), 303-325.

7. Skelton, "Professionalization", 461-465.

8. (Lewis Cass), <u>Regulations Concerning the Removal</u> of the Indians (Washington, D.C.: 1832), is the sole example of an official guide for U.S. Army officers, as regards all aspects of Indian management and control. This skimpy, 15 page guide is more aptly not a policy guide as such, but simply orders directing the movement of the Cherokee Indians to the Oklahoma Territory.

9. Skelton, U.S. Army, 138.

10. Stephen Watts Kearny, "Journal of Stephen Watts Kearny," ed. by Valentine Watts Pointer, <u>Missouri Historical</u> <u>Society Collections</u> XI (1908): 8-29, 99-139; "Journal of the Atkinson-O'Fallin Expedition," ed. by Russell Reid and C.G. Gannon, <u>Nebraska History</u> IV (October 1929), 5-56; Surgeon John Cole, <u>The Missouri Expedition 1818-1820 the</u> Journal of Surgeon John Cole, et. al., ed. by Roger L. Nichols (Norman: 1969), <u>passim</u>.; also see, Roy H. Mattison, "The Military Frontier of the Upper Missouri," <u>Nebraska</u> <u>History</u> XXXVII (1956), 159-182; Richard E. Mueller, "Jefferson Barracks, the Early Years," Missouri Historical Review LXVII (October 1972), 7-11; Colonel Forrest R. Blackburn, "Fort Leavenworth: Logistical Base for the West," <u>Military</u> <u>Review</u> LIII (December 1973), 3-12; Nichols, "Army and the Indians," 151-168; Robert G. Athearn, <u>Forts of the Upper</u> <u>Missouri</u> (Englewood Cliffs: 1967), 2-5; Silver, <u>Gaines</u>, 89-105; Sally A. Johnson, "The Sixth's Elysian Fields - Fort Atkinson on the Council Bluffs," <u>Nebraska History</u> XL (March 1959): 1-38; Brad Agnew, <u>Fort Gibson, Terminal of the Trail</u> <u>of Tears</u> (Norman: 1980), 1-35; Grant Foreman, <u>Advancing the</u> <u>Frontier 1830-1860</u> (Norman: 1933), 1-30; Henry Putney Beers, <u>The Western Military Frontier 1815-1846</u> (Philadelphia: 1935), 3-89; Frederic L. Paxson, <u>History of the</u> <u>American Frontier 1763-1893</u> (Boston: 1924), 275-285.

11. Josiah Gregg, <u>Commerce of the Prairies</u> (reprint; Dallas: 1933 (1844)), 1-11.

12. Charles R. McClure, "Neither Effective Nor Financed the Difficulties of Indian Defense in New Mexico, 1837-1846," <u>Military History of Texas and the Southwest</u> X (1974): 73-92.

13. Benton, <u>Thirty Years View</u>, II, 41-44; "Indian Outrages," <u>Niles' Weekly Register</u> XXV (November 29, 1828), 214; Henry H. Goldman, "A Survey of the Federal Escorts on the Santa Fe Trail 1829-1843," <u>Journal of the West</u> V (October 1966), 504-505; Stephen Sayles, "Thomas Hart Benton and the Santa Fe Trail," <u>Missouri Historical Review</u> LXIX (October 1974), 1-22. 14. "Major Bennet Riley's Report on the 1829 Escort," 21 Cong., 1 sess. S. Doc. 46, serial 182; also see, "Movement of Troops," <u>Niles' Weekly Register</u> XXVI (May 16, 1829), 182.

15. Cooke, <u>Scenes</u>, 59; in addition, see, Otis E. Young, <u>The West of Philip St. George Cooke, 1809-1895</u> (Glendale: 1955), 33-36.

16. "Employment of Volunteer Mounted Gun-Men on Western Duty", 20 Cong., 1 sess., H. doc. 234, serial 174; "Defense Western Frontier-Organization, Staff, Army," 25 Cong., 2 sess., H. ex. doc. 114, serial 325; "Description and estimate of Complete Line of Defense by Military Works, on Western Frontier," 25 Cong., 2 sess., <u>Mil. Aff.</u> 369, <u>ASPO</u> 22; "Frontier U.S. Defense of Northern and Western," 25 Cong., 3 sess., H. doc. 177, serial 346; "Plans for Defense and Protection of Western Frontiers, and Number of Indians on those Frontiers," 25 Cong., 2 sess., <u>Mil. Aff.</u>, 735, <u>ASPO</u> 22; "Western Frontier Correspondence on the Subject of the Protection of the Western Frontier", et. al., 25 Cong., 2 sess., H. doc. 276, serial 328.

17. "United States Dragoons", <u>Niles' Weekly Register</u> XLVI (August 2, 1834), 389-390; "Miscellaneous" (report on the Leavenworth-Dodge Expedition) <u>Niles' Weekly Register</u> XLVII (September 20, 1834), 38; "Expedition of the Dragoons to the West", <u>Niles' Weekly Register</u> XLVIII (October 4, 1834), 74-76; "From the Dragoons", <u>Niles' Weekly Register</u> XLIX (October 17, 1835), 106; "The Dragoons," Niles' Weekly Register XLVII (February 7, 1835), 403-404; Captain Thomas Bucknell, "The Journals of Capt. Thomas Bucknell from Boone's Lick to Santa Fe and from Santa Cruz to Green River," Missouri Historical Review III (January 1910); 65-84; Kearny, "Journal 1820", 5-29; see as well, Edgar Bruce Wesley, Guarding the Frontier: A Study of Frontier Defense from 1815 to 1825 (St. Paul: 1935), passim.; Otis E. Young, The First Military Escort on the Santa Fe Trail 1829 (Glendale: 1952), passim.; David Lavender, Bent's Fort (Garden City: 1954), 156-159; J. Evarts Greene, "The Santa Fe Trade: Its Route and Character", Journal of the U.S. Cavalry Association X (September 1897), 264-277; G.C. Broadhead, "The Santa Fe Trail", Missouri Historical Review IV (1910), 309-319; Henry Putney Beers, "Military Protection of the Santa Fe Trail to 1845", New Mexico Historical Review XII (1937), 113-137; Ray Allen Billington, The Far Western Frontier (New York: 1962), 23-28, 37-38; William Fran Morrison, Military Posts and Campaigns in Oklahoma (Oklahoma City: 1936), 1-11; Leo Olivia, Soldiers on the Santa Fe Trail (Norman: 1967), 3-34; Louis Pelzer, Marches of the Dragoons in the Mississippi Valley, et. al. (Iowa City: 1917), 1-11; Fred S. Perrine, "Military Escorts on the Santa Fe Trail," New Mexico Historical Review II (April, July 1927), 75-193, 269-304, III (July 1928), 265-300; Susan Koester, "The Threat Along the Santa Fe Trail", Pacific <u>Historian</u> XVII (Winter 1973), 13-29; Paxson, <u>American</u> <u>Frontier</u>, 322-330; William R. Manning, "Diplomacy Concerning the Santa Fe Road," <u>Mississippi Valley Historical Journal</u> I (March 1915), 516-531; Goldman, "Federal Escorts," 504-516.

18. Francis Prucha, <u>Swords of the Republic</u> (Bloomington: 1977), 235-336.

19. Prucha, <u>Swords</u>, 239; also see, Brevet Major-General Edmond P. Gaines, "General Principles Concerning the Militia of the United States, <u>American State Papers</u>, Military Affairs, IX, 407, appendix G, 135.

20. William T. Hagan, "General Henry Atkinson and the Militia," <u>Military Affairs</u> XXIII (Winter 1959-1960), 194-197; Nichols, Atkinson, 152-175.

21. Zachary Taylor, "Zachary Taylor and the Black Hawk War", (Letters), ed. by Hamilton Holman, <u>Wisconsin Magazine</u> of History XXIV (March 1941), 310; <u>The Black Hawk War 1831–</u> 1832 Collections of the Illinois State Historical Library (2 vols.; Springfield: 1973), II, 724-728.

22. "United States Dragoons," <u>Military and Naval</u> Magazine of the United States I (April 1833), 118.

23. Black Hawk War, I, 435-436.

24. "Mounted Troops, <u>Debates In Congress</u>, H. of Rep. (June 9, 1832), 3390.

25. Ibid., 3387-3388, 3391.

26. Ibid., 3392.

27. Ibid., 3395.

28. <u>Ibid</u>.

John C. Callan, The Military Laws of the United 29. States, et. al. (Baltimore: 1856), 22 Cong., 1 sess., Pub. Laws, ch. 131, 533, 306; also see, "Relative to the Efficiency of Mounted Volunteers for the Protection of the Frontiers", American State Papers, Military Affairs, XVIII, 380, 821-829; "Army of the U.S.", 24-25; "U.S. Dragoons", 18-19; Washington Irving, A Tour of the Prairies (reprint; 1956 (1836)), 45-105; see as well, Otis E. Young, Norman: "The United States Mounted Ranger Battalion, 1832-1833", Mississippi Valley Historical Review XLI (December 1954), 453-470; Louis Pelzer, Henry Dodge (Iowa City: 1911), 62-79; Brevet Brigadier-General Theo F. Rodenbaugh and Major William C. Haskin, The Army of the United States (New York: 1896), 153-159; John Tobel and Keith Jamison, The American Indian Wars of Two Centuries (New York: 1874), 313-329; T. Harry Williams, The History of American Wars from 1745-1918 (New York: 1981), 140-141; Anthony F.C. Wallace, Prelude to Disaster: The Course of Indian White Relations which Led to the Black Hawk War of 1832 (Springfield: 1970), passim.; Brackett, U.S. Cavalry, 34; Prucha, Swords, 245-274; Herr and Wallace, U.S. Cavalry, 20-25; Colonel Oliver Lyman Spaulding, The United States Army in Peace and War (New 1937), 169-170; Stephen Z. Starr, The Union Cavalry York: in the Civil War (2 vols.; Boston: 1979-1981), I, 48; Hassler, Shield and Sword, 111-112; Silver, Gaines, 142-146;

Agnew, Fort Gibson, 74-76; Skelton, <u>U.S. Army</u>, 345-346; Elliott, <u>Scott</u>, 260-261; Cecil Ely, <u>That Disgraceful Affair:</u> <u>The Black Hawk War</u> (New York: 1973), <u>passim</u>.; Frank E. Stevens, <u>The Black Hawk War</u>, et. al. (Chicago: 1903), <u>passim</u>.; Scott, <u>Memoirs</u>, I, 217-232; Thiele, <u>Evolution of</u> <u>Cavalry</u>, 10-11; M.M. Quafe, compl., "Journals and Reports of the Black Hawk War", <u>Mississippi Valley Historical Review</u> XII (December 1925), 392-412.

30. Cooke, Scenes, 217; "Army of the U.S.", 26.

31. "Lewis Cass to Andrew Jackson", <u>American State</u> <u>Papers, Military Affairs, XX, 528, 126.</u>

32. <u>American State Papers, Military Affairs</u>, XX, 538, 126.

33. Callan, <u>Military Laws</u>, 22 Cong., 2 sess., ch. 26, IV, 652, 310-311.

34. American State Papers, Military Affairs, XX, 538.

35. <u>The Theatre of the Present War in the Netherlands</u> and upon the Rhine, et. al. (London: 1745), (no pagination in the dictionary section); Magrath, <u>Art of War</u>, 138-139; Marmont, <u>Modern Armies</u>, 35-36.

36. Jomini, <u>Art of War</u>, 280-281; Denison, <u>Cavalry</u>, 210-211; Davis, <u>Troopers Manual</u>, VIII.

37. See specifically, Robert M. Utley, <u>Frontiersmen in</u> <u>Blue the United States Army and the Indian 1848-1868</u> (New York: 1967), 22-24; Brackett, <u>U.S. Cavalry</u>, 34-47; also see, Herr and Wallace, <u>U.S. Cavalry</u>, 25-26; Prucha, Swords, 245-247; Pelzer, <u>Dodge</u>, 13; Weigley, <u>U.S. Army</u>, 159-160; Beers, <u>Military Frontier</u>, 109-111; Rodenbaugh and Haskin, <u>Army</u>, 153-159; Pelzer, <u>Dragoons</u>, 13; Morrison, <u>Military</u> <u>Posts</u>, 13; Olivia, <u>Soldiers</u>, 37-42; Colonel R. Ernest Dupuy, <u>The Compact History of the United States Army</u> (rev. ed.; New York: 1961), 77-78.

38. Nolan, <u>Cavalry</u>, 48-52; Denison, <u>Cavalry</u>, 284-285; also see, "U.S. Dragoons", 389-390.

39. Stone, Brittle Sword, 36-51.

40. "On Converting Battalion of Mounted Rangers into a Regiment of Dragoons", 22 Cong., 2 sess., H. rep. 117, serial 236.

41. "U.S. Dragoons", 119.

42. Wayne T. Walker, "Nathan Boone the Forgotten Hero of Missouri", <u>Journal of the West</u> XVIII (April 19799), 89-91; William T. Hagan, "The Dodge-Henry Controversy", <u>Journal</u> <u>of the Illinois State Historical Society</u> L (Winter 1957), 377-384; Pelzer, <u>Dodge</u>, 80-82; Brackett, <u>Cavalry</u>, 35; Young, <u>Cooke</u>, 66-68.

43. Carl L. Davis and LeRoy H. Fischer, "Dragoon Life in Indian Territory, 1833-1846," <u>Chronicles of Oklahoma</u> XLVIII (Spring 1968), 4-6; Cooke, <u>Scenes</u>, 67-78.

44. Frontier Forts of Texas (Waco: 1966), 145.

45. Prucha, "U.S. Army/British Travelers", 115; also see, Laurence Oliphant, <u>Minnesota and the Far West</u> (Edinburg: 1854), 222. 46. Grant, Memoirs, I, 67.

47. Oliphant, <u>Minnesota</u>, 222-223; Henry S. Hamilton, <u>Reminiscences of a Veteran</u> (Concord: 1897), 8-59 (prior to U.S. Army service, Hamilton was a member of the British 11th Hussars).

48. John Ellis, <u>Armies in Revolution</u> (New York: 1974), 140-153; Geoffrey Best, <u>War and Society in Revolu-</u> tionary Europe 1770-1870 (New York: 1982), 255-256.

49. Cooke, Scenes, 197-198.

50. (James Hildreth), <u>Dragoon Campaigns to the Rocky</u> <u>Mountains by a Dragoon</u> (reprint; New York: 1973 (1836)), 44; Hildreth's status as the author of this work was questioned by James B. Thorburn, "The Dragoon Campaigns to the Rocky Mountains", <u>Chronicles of Oklahoma</u> VIII (March 1930), 35-41.

51. "Military Intelligence," <u>Military and Naval</u> <u>Magazine of the United States</u> I (August 1833), 381; II (September 1833), 5.

52. (Hildreth), Dragoon Campaigns, 119.

53. Young, Cooke, 66-68.

54. John Watts DePeyster, <u>Personal and Military</u> <u>History of Philip Kearny, Major-General United States</u> <u>Volunteers</u> (New York: 1869), 59.

55. Cooke, Scenes, 204-205.

56. (Hildreth), Dragoon Campaigns, 119.

57. Charles Fenno Hoffman, <u>A Winter in the West</u>, et. al. (s.l: s.n.), 91-92.

58. DePeyster, Philip Kearny, 59.

59. Beers, <u>Military Frontiers</u>, 110-115; Herr and Wallace, <u>U.S. Cavalry</u>, 25-26; Pelzer, <u>Dodge</u>, 81-84; Weigley, <u>U.S. Army</u>, 160-161; Wormser, <u>Yellowlegs</u>, 44-45; Young, Cooke, 71-73.

60. Edmund Flagg, <u>The Far West or, A Tour Beyond the</u> Mountains, et. al. (2 vols.; New York: 1838), I, 110.

61. Charles Joseph Latrode, <u>The Rambler in North</u> <u>America MDCLXVII MDCLXXIIII</u> (2 vols.; London: 1935), II, 319-329.

62. Young, <u>Cooke</u>, 71-73; Davis and Fischer, "Dragoon Life", 8-10.

63. "Brigadier General Henry Leavenworth", 101-103.

64. (Hildreth), Dragoon Campaigns, 119.

65. George Catlin, <u>North American Indians</u> (2 vols.; Edinburgh: 1926), ii, 44.

66. <u>Ibid</u>., II, 93.

67. T.(hompson) B. Wheelock, "Colonel Henry Dodge and his Regiment of Dragoons on the Plains in 1834", ed. by Edgar B. Harlan, <u>Annuals of Iowa</u> XVIII 3rd series (January 1930), 195.

68. "U.S. Dragoons", 389-390; "From the Dragoons", 106; "The Dragoons," 403-404; (Hildredth), <u>Dragoon Cam-</u> paigns, passim.; Lavender, <u>Bent's Fort</u>, 157-159; Herr and Wallace, <u>U.S. Cavalry</u>, 25-26; Young, <u>Cooke</u>, 72-80; Agnew, "Dodge-Leavenworth Expedition", 381-395; Brackett, <u>U.S.</u> <u>Cavalry</u>, 34-47; Beers, <u>Military Frontier</u>, 110-115; Hughes, "First Dragoons", 120-122; Davis and Fischer, "Dragoon Life", 10-18; W.S. Nye, <u>Carbine and Lance the Story of Old</u> <u>Fort Still</u> (3rd ed., Norman: 1969), 7-12; Richard E. Mueller, "Jefferson Barracks: the Early Years", <u>Missouri</u> <u>Historical Review</u> LXVII (October 1972), 20-27; Wormser, Yellowlegs, 45-48; Pelzer, Dragoons, 26-28.

69. "A Journal of Marches by the First United States Dragoons 1834-1835", ed. by Louis Pelzer, Iowa Journal of History and Politics VII (July 1909), 378; also see, Hugh Evans, "The Journal of Hugh Evans Concerning the First and Second Campaigns of the U.S. Dragoons Regiment in 1834 and 1835", ed. by Fred Perrine, Chronicles of Oklahoma III (September 1925), 175-215; "A Journal of the First Dragoons in the Iowa Territory, 1844", ed. by Robert Rutland, Iowa Journal of History LI (1953), 156-182; see as well, Hamilton Gardner, "Captain Philip St. George Cooke and the March of the Dragoons to the Rocky Mountains in 1845", Colorado Magazine XXX (October 1953), 246-269; Colonel Forrest R. Blackburn, "The Army in Western Exploration", Military Review LI (September 1971), 75-90; Averam B. Bender, The March of Empire Frontier Defense in the Southwest 1848-1860 (Lawrence: 1952), 51-72, 88-107; Lieutenant Thomas W. Symns, "The Army and the Exploration of the West", Journal of the Military Service Institute IV (September 1883), 205-249; William H. Goetzman, Army Exploration in the American West 1803-1863 (New Haven: 1959), passim.; A.B. Bender, "Government Exploration in the Territory of Mexico", New Mexico Historical Review IX (January 1934),1-32; in addition, see, Captain Randolph B. Marcy and Brevet Captain George B. McClellan, Exploration of the Red River of Louisiana in the Year 1852 (Washington, D.C.: 1854), passim.; Lieutenant J. Henry Carleton, The Prairie Logbooks Dragoon Campaigns to the Pawnee Villages in 1844, et. al., ed. by Louis Pelzer (Chicago: 1943), passim.; W.B. Parker, Notes Taken During the Expedition Commanded by Capt. R.B. Marcy, U.S.A. through Unexplored Texas, et. al. (Philadelphia: 1856), passim.; Lieutenant Duff C. Green, "Exploring the Rio Grande: Lt. Duff C. Green's Report of 1852", ed. by Ronnie C. Tyler, Arizona and the West X (Spring 1968), 43-60; Lieutenant James Sullivant Abert, Western America in 1846-1847, et. al., ed. by John Galvin (San Francisco: 1966); Brevet Colonel J.C. Fremont, The Exploring Expedition to the Rocky Mountains, Oregon and California, et. al. (Buffalo: 1849).

70. John T. Sprague, <u>The Origins, Progress, and</u> <u>Conclusions of the Florida War</u>, et. al. (reprint; Gainesville: 1964 (1848)), <u>passim</u>.; M. Cohen, <u>Notices of Florida</u> <u>and the Campaigns</u> (reprint; Gainesville: 1974 (1836)), <u>passim</u>.; Jacob Rhett Motte, <u>Journey Into Wilderness: An</u> Army Surgeon's Account of Life in Camp and Field During the Creek and Seminole Wares, 1836-1838, ed. by James F. Sunderman (Gainesville: 1963), passim.; Army and Navy Chronicle I-XIII (1835-1842): passim.; Scott, Memoirs, I, 260-268; Theo F. Rodenbaugh, From Everglade to Canon with the Second Dragoons (New York: 1975), 20-33; Hitchcock, Fifty Years, 76-97, 110-128; Woodburne Potter, The War in Florida (reprint; Ann Arbor: 1966 (1836)), passim; also see, John K. Mahan, History of the Second Seminole War, 1835-1842 (Gainesville: 1967), passim.; Virginia Bergan Peters, The Florida Wars (Hamden: 1979), 63-257; John B.B. Trussell, "Seminoles in the Everglades: A Case Study in Guerilla Warfare", Army XII (December 1961), 39-45; Ganoe, U.S. Army, 180-181; Dawson, Battles, II, 439-445; Tobbel and Jamison, Indian Wars, 209-219; George C. Brittle, "First Campaign of the Second Seminole War," Florida Historical Quarterly XLVI (July 1967), 39-45; Spaulding, U.S. Army, 161-163; Hassler, Shield and Sword, 112-116; Max L. Heyman, Prudent Soldier: A Biography of Major General E.R.S. Canby 1818-1873 (Glendale: 1959), 39-48; M.L. Brown, "Notes on U.S. Arsenals, Depots and Martial Firearms of the Second Seminole War", Florida Historical Quarterly LXI (April 1983), 445-458; Silver, Gaines, 167-190; Dupuy, Army, 160-163; Maurice Matoff, ed., American Military History (Washington, D.C.: 1969), 159-161; Upton, Military Policy, 162-193; Rogers W. Young, "Fort Marion During the Seminole War,

1835-1842", <u>Florida Historical Society Review</u> XIII (April 1935), 193-222.

71. Joseph Smith, "Letters From the Second Seminole War", ed. by John K. Mahan, <u>Florida Historical Quarterly</u> XXXVI (April 1958), 337.

72. Sprague, Florida War, 182.

73. Trussell, "Seminoles/Guerilla Warfare", 39-45; Mahan, <u>Seminole War</u>, <u>passim</u>.; Peters, <u>Florida Wars</u>, 63-257; also see, Preston and Wise, <u>Men In Arms</u>, 184-185; Strachan, <u>European Armies</u>, 41-42; Kitchen, <u>Military History of</u> <u>Germany</u>, 44-45; John K. Mahan, "Anglo-American Methods of Indian Warfare, 1676-1794," <u>Mississippi Valley Historical</u> <u>Review XLV</u> (September 1958),254-275; Peter E. Russell, "Redcoats in the Wilderness: British Officers and Irregular Warfare in Europe and America 1740-1760".

74. "Conditions of the Indians," <u>Niles' Weekly</u> <u>Register</u> XLVII (October 4, 1834), 76; (William Eustus), "Passports Through the Indian Country: the Secretary of War to Silas Dunsmore", <u>Niles' Weekly Register</u> XXXIV (April 12, 1828), 110-113; "Correspondence with Officers of the Army Relative to the Posts and Military Forces Required for the Protection of the Western Frontier of the United States", <u>American State Papers, Military Affairs</u>, VII, 962; Potter, War in Florida, 35.

75. Sprague, Florida War, 93, 84-85; Potter, War in

280

Florida, 26-27, 31-33; "Correspondence With Officers", 961; Potter, War in Florida, 16-17.

Potter, <u>War in Florida</u>, 40; Sprague, <u>Florida War</u>,
 16-17.

77. Potter, War in Florida, VII-VIII.

78. "Orders from the War Department Authorizing Calls for Volunteers and Militia from Several States and Territories to Suppress the Hostilities of the Creek and Seminole Indians in Florida", et. al., <u>American State Papers,</u> <u>Military Affairs</u>, VI, 1026-1069 (1837); "Report of Secretary of War Relative to Orders and Instructions to the Commanderin-Chief in Florida to Call into Service Militia and Volunteers", et. al., <u>American State Papers, Military Affairs</u>, VII, 918-924 (1838); "Annual Report of the Secretary of War Showing the Condition of that Department in 1837", <u>American State Papers, Military Affairs</u>, VII, 571-572 (1837); also see, in general, Frank B. Woodford, <u>Lewis Cass the Last Jeffersonian</u> (New Brunswick: 1950), 172-194; Mahan, Militia and National Guard, 87-90.

79. Sprague, Florida War, 94.

80. "Colonel Z. Taylor's Account of the Battle with the Seminole Indians near the Kissimmee River, in Florida," et. al., <u>American State Papers, Military Affairs</u>, VII, 985-992; "Annual Report of the Secretary of War (1837)", 571-572. 81. Sprague, <u>Florida War</u>, 425, 426; see as well, "Causes of Hostility of the Creek and Seminole Indians in Florida," et. al., <u>American State Papers, Military Affairs</u>, VI, 450-474 (1836); "Causes of Hostility of the Seminoles and other Indians in Florida, and Military Arrangements and Preparations Against Them", <u>American State Papers, Military Affairs</u>, VI, 433-443 (1836); James B. Dallon, "A Soldier's View of the Seminole War 1838-1839", ed. by William B. Hoyt, Jr., <u>Florida Historical Quarterly</u> XXXVI (April 1958), 331-352; A.B. Meek, "The Journal of A.B. Meek and the Second Seminole War, 1836", ed. by John K. Mahan, <u>Florida Historical Quarterly</u> XXXVIII (April 1960), 302-318; John T. Sprague's Journal during April and May, 1839", <u>Florida</u> Historical Quarterly XXXVI (April 1958), 331-

82. Callan, <u>Military Laws</u>, 24 Cong., 1 sess., Pub. Laws, VIII, 3, 323.

83. For example, see: Herrand Wallace, <u>U.S. Cavalry</u>, 29-30; Wormser, <u>Yellowlegs</u>, 57-58; Thiele, <u>Evolution of</u> Cavalry, 14.

84. <u>Congressional Globe</u>, 27 Cong., 2 sess., XI, 903; Callan, <u>Military Laws</u>, 27 Cong., 2 sess., Pub. Laws, ch. 241, IX, 13, 361-362; see as well, "Memorial of Missouri Legislature Against Disbanding Second Regiment of Dragoons", 28 Cong., 1 sess., H. doc. 25, serial 441, "Resolution of Legislature of Louisiana to Maintain 2d Regiment of Dragoons", 27 Cong., 3 sess., H. doc. 156, serial 422; "Remounting 2d Regiment of Dragoons", 28 Cong., 1 sess., H. doc., serial 441.

85. For the second interpretation, see: Brackett <u>U.S.</u> <u>Cavalry</u>, 37-38; Rodenbaugh, <u>Everglades to Canon</u>, 28-83; Rodenbaugh and Haskin, <u>Army</u>, 173-179; see as well, W.B. Ruggles, "The Story of a Regiment, the Second Dragoons", <u>Magazine of History XIV</u> (1911), 31-42, 66-72, 122-136, 172-176; Frontier Forts, 144-152.

86. Callan, <u>Military Laws</u>, 29 Cong., 1 sess., Pub. Laws, ch. 24, XIX, 13, 361-362.

87. "Remarks of Mr. H.A. Harabran of Georgia, 'Two Regiments of Riflemen'", <u>Congressional Globe</u>, 29 Cong., 1 sess., H. of Rep., (March 26, 1846), 476-478; "Speech of McClernard of Illinois on Regiment of Riflemen", <u>Congres-</u> <u>sional Globe</u>, 29 Cong., 1 sess., H. of Rep., (April 17, 1846), 605-609.

88. "Mounted Riflemen", 30 Cong., 1 sess., H. of Rep., 542, serial 526; "Military Blockhouse Forts, and Stockades in Route to Oregon, and Regiment of Mounted Riflemen to Protect Emigrants," 29 Cong., 1 sess., H. Rep., 350, serial 201; "Recollections of the Rifles," <u>Southern Literary</u> <u>Messenger XXXIII (November 1861), 371-380; Henry Putney</u> Beers, "The Army and the Oregon Trail of 1846", <u>Pacific</u> <u>Northwest Quarterly XXVII (1951), 339-362; Raymond W.</u> Settle, <u>The Marches of the Mounted Rifles</u>, et. al. (Glendale: 1940), <u>passim.;</u> Robert E. Clarke, "Military History of Oregon 1849-1859", <u>Oregon History</u> XXXVI (March 1935), 14-20; Rodenbaugh and Haskin, <u>Army</u>, 193-201; Starr, <u>Union</u> <u>Cavalry</u>, I, 48; Ganoe, <u>U.S. Army</u>, 230; Weigley, <u>U.S. Army</u>, 89; Brackett, U.S. Cavalry, 60.

89. <u>American State Papers, Military Affairs</u>, XV, 612; 639-641; Herr and Wallace, <u>U.S. Cavalry</u>, 63; also see, Francis Paul Prucha, "Distribution of Regular Troops before the Civil War", <u>Military Affairs</u> XXII (Winter 1952), 169-173; Fairfax Downey, <u>Indian Fighting Army 1776-1865</u> (Garden City: 1963), 138-139.

90. Jefferson Davis, <u>Jefferson Davis Constitutional-</u> <u>ist, His Letters, Papers and Speeches</u>, ed. by Rowland Dunbar (10 vols.; Jackson: 1923), II, 392-393.

91. John P. Curry, <u>Volunteers:</u> Compound and Field <u>Book</u>, et. al. (Richmond: 1862), 18-19; Also see, Lendy, <u>Maxims</u>, 195-200; William Whiting, <u>Military Government of</u> <u>Hostile Territory in Time of War</u> (Boston: 1864), <u>passim</u>. See as well, Colonel L.E. Caldwell, <u>Small Wars Their</u> <u>Principles and Practice</u> (3rd e.d; London: 1906), <u>passim</u>.; Asprey, War in the Shadows, I, 146-151.

92. H.W. Halleck, <u>Elements of International Law and</u> Law of Warfare (Philadelphia: 1866), <u>passim</u>.

93. "Spirit and Progress", 8.

94. Captain John Pope, "Captain John Pope's Plan of 1853 for the Frontier Defense of New Mexico", ed. by Robert M. Utley, <u>Arizona and the West</u> V (Summer 1963), 157; also see, Scott, <u>Memoirs</u>, I, 42.

95. R. Gilson, <u>Journal of Army Life</u> (San Francisco: 1874), 46; see as well, "E.O.C. Ord on Frontier Defense," ed. by Robert W. Johannsen, <u>California Historical Society</u> <u>Quarterly XXV</u> (March 1956), 25.

96. <u>Niles' Weekly Register</u>, for example, for the years 1820-1840, carried numerous reports of the French military efforts in Algeria.

97. Anthony Thrall Sullivan, <u>Thomas-Robert Gugeaud</u>, <u>France and Algeria 1784-1849: Politics</u>, Power, and the Good <u>Society</u> (Hampden: 1983), 77-93.

98. DePeyster, <u>Philip Kearny</u>, 63-110, 113-115; see as well, Philip Kearny, "Service with the French Troops in Africa and the Campaign of June 1840 - Expeditions Against Milianah", <u>Magazine of History</u> extra no. 22 (1913), 1-54; Captain Randolph B. Marcy, <u>A Handbook for Overland Expeditions</u>, et. al. (New York: 1859), 202-225; in addition, see, Thomas Kearny, "Philip Kearny, Soldier of America, Soldier of France", <u>American Society of the Legion of Honor Magazine</u> VII (October 1936), 115-123; Wormser, <u>Yellowlegs</u>, 57-58.

99. Colonel George Croghan, <u>Army Life on the Western</u> <u>Frontier Selections from the Official Reports made between</u> <u>1826 and 1845</u>, ed. by Francis Paul Prucha (Norman: 1958), 29; also see, "Military Establishment", 77.

100. Cooke, <u>Scenes</u>, 212-213, 222.

285

101. Desmond Morton, "Cavalry or Police: Keeping the Peace on Two Adjacent Frontiers, 1870-1900", <u>Journal of</u> Canadian Studies XII (Spring 1977), 27-35.

102. W.J. Hughes, <u>Rebellious Ranger Rip Ford and the</u> <u>Old Southwest</u> (Norman: 1964), 80-98; also see, Stephen B. Oates, "The Texas Rangers in the Mexican War", <u>Military</u> <u>History of Texas and the Southwest</u>, III (Summer 1963), 65-84; Walter Prescott Webb, <u>The Texas Rangers: A Century of</u> <u>Frontier Defense</u> (Boston: 1935), <u>passim</u>.; Mark E. Mackman, "The Making of the Texas Citizen Soldier, 1835-1860", <u>Southwestern Historical Quarterly</u> LXXVIII (1975), 231-253; James St. DeShields, <u>Border Wars of Texas</u> (Tioga: 1912), <u>passim</u>.; <u>A Comprehensive History of Texas 1685-1897</u>, ed. by Dudley G. Wooten (2 vols.; Dallas: 1898), II, 329-352.

103. William B. Skelton, "Army Officer Attitudes Toward Indians, 1830-1860", <u>Pacific Northwest Quarterly</u> LXVII (July 1976), 115.

104. Averell, Thirty years, 54.

105. Theresa Viele, "Following the Drum", A Glimpse of Frontier Life (New York: 1858), 121.

106. Gilsan, Army Life, 19.

107. Major-General George A. McCall, Letters from the Frontiers (reprint; Gainesville: 1974 (1868)), 140-41.

108. Potter, War in Florida, 39-40.

109. Potter, War in Florida, 17; "Passports Through the

Indian Country", 110-113; Skelton, "Officer's Attitudes",
118.

110. "Removal of the Indians", North American Review XXX (1830), 62-121; Lewis Cass, "Indians of North America", North American Review XIII new series (January 1826), 53-119; "The Indians of the United States - Their Past, Present and Their Future", DeBow's Review XVI (February XVI (February 1854), 143-149; "The American Indians", Commercial Review of the Southwest V (1848); 272-274, VI (1848), 100-106; "Administration of Indian Affairs", United States Magazine and Democratic Review XVIII (May 1854), 333-336; "Condition of the Indian", 76-77; T.B. Head, "The Red Man", Quarterly Review LXV (autumn 1958), 257-284, 399-425; John Frost, Indian Wars of the United States, et. al. (Auburn: 1855), passim.; see as well, Grant Foreman, Indian Removal: the Emigration of the Five Civilized Tribes of Indians (Norman: 1932), passim.; Agnew, Fort Gibson, passim.; Robert V. Hine, The American West an Interpretative History (Boston), 191-193; Kenneth Davis, "The Cherokee Removal, 1835-1838", Tennessee Historical Quarterly XXXII (Winter 1973), 311-331; Joseph J. Fensten, "Indian Removal", Chronicles of Oklahoma XI (December 1933), 1073-1083; Michael P. Rogin, "Liberal Society and the Indian Question", Politics and Society I (May 1971), 269-312; a typical early 1970s leftist diatribe against the supposedly genocidal policies of the U.S. government against the Indians is

effectively refuted by F.P. Prucha, "Andrew Jackson's Indian Policy: A Reassessment", <u>Journal of American History</u> LVI (December 1969), 527-539; in addition, see, Francis Paul Purcha, "Indian Removal and the Great American Desert", <u>Indiana Magazine of History</u> LIX (December 1963), 299-322.

111. "Condition of the Indians", 76-77.

112. Gilsan, Army Life, 18.

113. Frontier Forts, 136-139.

114. John B. Hood, <u>Advance and Retreat: Personal</u> Experiences in the United States (New York: 1969), 11.

115. Frontier Forts, 138.

116. Hood, Advance and Retreat, 92.

117. Brevet Major E.S. Godfrey, "Cavalry Fire Discipline", <u>By Valor and Arms</u> II (1976), 31-36.

118. The following article rather foolishly and quite pedantically attempted to explain the tactics of both the Army and the Indians at the Little Big Horn in terms of classical Napoleonic battles: Archer Jones, "The United Stats Army at the Little Big Horn", <u>North Dakota History</u> XLII (Spring 1975), 27-35.

119. Anthony McGinnis, "A Contest of Wits and Daring: Plains Indians at War with the U.S. Army", <u>North Dakota</u> <u>History XLVIII</u> (Spring 1975), 24-32; D.E. Worchester, "The Weapons of American Indians", <u>New Mexico Historical Review</u> XX (July 1945), 227-238; Waldo E. Rosebush, <u>Frontier Steel</u> the Men and their Weapons (Appleton: 1958), 146-159; Russell F. Weigley, "A Historian Looks at the Army", Military Review LII (February 1972), 29-30; Marion W. Smith, "American Indian Warfare", Transactions of the New York Academy of Science XIII, series 2 (1951), 348-365; W.W. Newcomb, "A Re-examination of the Causes of Plains Warfare", American Anthropologist LII (July-September 1950), 317-330; Roy Dogsey, "The Osage War of 1837", Missouri Historical Review XX (October 1925), 96-100; Frank McNitt, "Navaho Campaigns and the Occupation of New Mexico, 1847-1848", New Mexico Historical Review XLIII (July 1968), 173-194; Utley, Frontiersman, 18-30; Morris Taylor, "Campaigns Against the Jicarilla Apaches 1854", New Mexico Historical Review XLIV (October 1969), 269-291; Herr and Wallace, U.S. Cavalry, 78; Colonel Hamilton Gardner, "Philip St. George Cooke and the Apache, 1854", New Mexico Historical Review XXVIII (April 1953), 115-132; Stephen Z. Starr, "'Cold Steel' The Saber and the Union Cavalry", Civil War History XI (June 1965), 142-144; Spaulding, U.S. Army, 235-236; Max L. Heyman, Jr., "On the Navaho Trail: the Campaign of 1860-1861", New Mexico Historical Review XXVI (January 1951), 44-63; Nye, Carbine and Lance, 18-24; Bernard Miskin, Rank and Warfare Among the Plains Indians (Seattle: 1940), passim.; Gallagher, "Military Indian Frontier", 393-428; William E. Cimay, "The Story of Fort Larned", Kansas Historical Quarterly XXIII (Autumn 1957), 257-280; L.R. Bailey, The Long Walk A History of the Navaho Wars 1846-1868 (reprint; Los Angeles:

1964 (1918)), <u>passim</u>.; Garfield Marvin, "Defense of the Kansas Frontier 1858-1860", <u>Kansas Historical Quarterly</u> I (December 1937), 451-473; Agnew, <u>Fort Gibson</u>, 205-207; General O.O. Howard, <u>How Indians Fight</u> (Seattle: 1876), passim.

120. Hood, Advance and Retreat, 11.

121. Ibid., 12.

122. Ibid., 13-14.

123. Frontier Forts, 140.

124. Hood, Advance and Retreat, 13-14; Frontier Forts, 135-141; Marcy, Thirty Years, 219-222; Averell, Ten Years, 173-211; Sheridan, Memoirs, I, 23; "John S. Kirwan", ed. by Merrill J. Mattes, Kansas Historical Quarterly II (April 1908), 237 -240; "With the First U.S. Cavalry in Indian Country, 1859-1861 Letters to the Daily Times, Leavenworth", Kansas Historical Quarterly XXIV (Autumn 1958), 257-284, 399-425; Robert S. Bliss, "The Journal of Robert S. Bliss with the Mormon Battalion", Utah Historical Quarterly IV (July 1939), 67-96; Carleton, Prairie Logbooks, 137-141; Auguste Meyers, Ten Years in the Ranks of the U.S. Army (New York: 1979), 73-74; "Robert E. Lee to Albert Sydney Johnston 1857," 3d. by Marilyn McAdams Sibley, Journal of Southern History XXXIX (February 1963), 100-107; Stanley, Memoirs, 44-46.

125. DePeyster, Philip Kearny, 54.

126. Francis F. McKiney, <u>Education in Violence--the</u> <u>Life of George H. Thomas and the History of the Army of the</u> <u>Cumberland</u> (Detroit: 1961), 50-51; Young, <u>Cooke</u>, 320-321; James Fred Rippy, <u>Joel R. Poinsett Versatile American</u> (Durham: 1935), 171-175.

127. Brackett, <u>Cavalry</u>, 160; also see, Rosebush, Frontier Steele, 135.

128. Utley, Frontiersmen, 26; also see, Starr, "'Cold Steel'", 142.

129. Gilsan, Army Life, 112.

130. Colonel Joseph King Ferro Mansfield, <u>On the</u> <u>Condition of the Western Forts 1853-1854</u> (Norman: 1963), 327; also see, "Modern Tactics", 5-6; Kingsbury, <u>Elementary</u> Treatise, 14-15.

131. Gilsan, Army Life, 327.

132. Rosebush, <u>Frontier Steel</u>, 123-135; in addition see, in general, Jerrold, French Under Arms, 5-6.

133. Randy Steffen, <u>The Horse Soldier 1776-1943</u>, the <u>United States Cavalryman his Uniforms</u>, Arms, Accouterments, and Equipment (4 vols.; Norman: 1977), vols., 1-2, passim.

134. Wormser, Yellowlegs, 50-52.

135. Marcy, Thirty Years, 67; Marcy, Handbook, 200.

136. Cooke, Scenes, 221.

137. Philip St. George Cooke, "Our Cavalry", <u>United</u> <u>Service</u> I (July 1879), 330-331.

138. Marcy, Thirty Years, 68; Croghan, Army Life, 22.

139. Mansfield, Western Forts, 67.

140. Viele, "Following the Drum", 174; also see, Meyers, Ten_Years, 59-60.

141. "On Desertions From Army", 19 Cong., 1 sess., H. doc., 140, serial 138; "Plan to Prevent Desertions in Army", 20 Cong., 1 sess., S. doc. 92, serial 656; "Relative to Desertions in Army", 20 Cong., 1 sess., S. doc. 62, serial 193; "Desertions in the Army", Niles' Weekly Register XXXVIII (March 20, 1830), 68; in addition, see, Stanley Graham, "Routine at Western Cavalry Posts, 1833-1861", Journal of the West XV (July 1976), 53-64; Thomas Friggens, "Fort Wilkens: Army Life on the Frontier", Michigan History LXI (Fall 1977), 221-250; Olivia, Soldiers, 44-54; Utley, Frontiersmen, 40-60; W. Oakley Ruggles, "Early Recollections of Fort Dodge," Iowa Journal of History XLIX (April 1951), 163-184; Foreman, Pioneer Days, 170-171; Hughes, "First Dragoons", 115-138; Oliphant, Minnesota, 222-223; Bender, March of Empire, 100-129; A.B. Bender, "Soldier in the Far West, 1848-1860", Pacific Historian VIII (1939), 159-178; James W. Covington, "Life at Fort Brooke, 1824-1836", Florida Historical Quarterly XXXVI (April 1958), 319-330; Weigley, U.S. Army, 168-169; Brackett, U.S. Cavalry, 134-140; Hamilton Gardner, "Romance at Old Cantonment Leavenworth: the Marriage of 2d Lt. Philip St. George Cooke in 1830", Kansas Historical Quarterly XXII (Summer 1956), 97-113; W.C. Holden, "Frontier Defense, 1846-1860", West Texas Historical Association Year Book VI (1930), 39-71; David Robrock, "The Eleventh Ohio Volunteer Cavalry on the Central Plains, 1862-1866", <u>Arizona and the West</u> XXV (Spring 1983), 23-48; Dan Clarke, "Frontier Defense in Iowa, 1850-1865", <u>Iowa Journal of History</u> XVI (July 1918), 315-386; Chris Emmett, <u>Fort Union and the Winning of the Southwest</u> (Norman: 1965), <u>passim.</u>; <u>Frontier Forts</u>, <u>passim.</u>, Leroy Hafen and Francis Young, <u>Fort Laramie and the Pageant of the West</u>, 1834-1890 (Glendale: 1938), <u>passim.</u>; Heyman, <u>Canby</u>, 53-136; G. Hulbert Smith, "A Frontier Fort in Peacetime", <u>Minnesota History</u> XLV (Fall 1976), 116-128; Evan Jones, <u>Citadel in the</u> Wilderness: The Story of Fort Snelling and the Old Northwest Frontier (New York: 1966), <u>passim</u>.

142. Captain Lemuel Ford, "Captain Lemuel Ford's Journal of an Expedition to the Rocky Mountains", ed. by Louis Pelzer, <u>Mississippi Valley Historical Review</u> XII (March 1926), 578.

143. "Military Establishment", 77.

144. Pelzer, Dragoons, 176.

145. Gilsan, Army Life, 107.

146. "Notes on Our Army", 87; on military professionalism, see Skelton, "Professionalism".

147. Philip St. George Cooke, <u>The Conquest of New</u> <u>Mexico and California</u>, et. al. (reprint; Albuquerque: 1964 (1878)); James Madison Cutts, <u>The Conquest of California and</u> New Mexico by the Forces of the United States et. al.

(Philadelphia: 1847); Alexander Majors, Seventy Years on the Frontier (reprint; Columbus: 1950 (1893)), 85-98; W.H. Emory, Notes of A Military Reconnaissance from Fort Leavenworth in Missouri to San Diego, et. al. (Washington, D.C.: 1848); George Rutledge Gibson, Journal of a Soldier Under Kearny, 1846-1847 (Glendale: 1935); Captain Henry Smith Turner, The Original Journals of Henry Smith Turner with Stephen Watts Kearny to New Mexico, et. al., ed. by Dwight L. Clarke (Norman: 1966); Frank S. Edwards, A Campaign in New Mexico with Colonel Dauphin (Ann Arbor: 1966); John S. Griffith, "A Doctor Comes to California: the Diary of John S. Griffith Assistant Surgeon with Kearny's Dragoons, 1846-1847", ed. by George Walcot Adams, Jr., California Historical Quarterly XXI (September, December 1942), 193-224; 333-357; Lieutenant Abraham R. Johnston, Marching With the Army of the West, 1846-1848 (Glendale: 1936); also see, Captain Homer K. Davidson, Black Jack Davidson, A Cavalry Commander on the Western Frontier, et. al. (Glendale: 1974), 23-42; Thomas C. Kanes, "Gilpin's Volunteers on the Santa Fe Trail", Kansas Historical Quarterly XXX (Spring 1964), 1-14; Hurbert Howe Bancroft, History of Arizona and New Mexico 1530-1888 (San Francisco: 1889), 415-428; Herr and Wallace, U.S. Cavalry, 38-42; James M. Merrill, Spurs to Glory, the Story of the United States Cavalry (Chicago: 1961), 83-122; Wormser, Yellowlegs, 68-70; Otis Singletary, The Mexican War (Chicago: 1960), 53-70; Dupuy, Army, 95-96; Justin H.

Smith, The War With Mexico (2 vols.; New York: 1919), I, 286-288, 515; Starr, Union Cavalry, I, 53.

148. [William B. Lane], "The Regiment of Mounted Riflemen: or, from Pueblo to the City of Mexico", ed. by L.R. Honersley, <u>United Service</u> VI (October 1895), 301-313; Brackett, U.S. Cavalry, 60.

149. Samuel Chamberlain, <u>My Confession</u> (New York: 1956), 89.

150. Brackett, U.S. Cavalry, 60.

151. Scott, Memoirs, I, 404.

152. Captain W.S. Henry, <u>Campaign Sketches of the War</u> With Mexico (New York: 1847), 112.

153. Ibid., 159.

154. George B. McClellan, <u>The Mexican War Diary of</u> <u>General George B. McClellan</u>, et. al., ed. by William Starr Myers (New York: 1972), 18; also see, Justin H. Smith, "Our Preparations for the War of 1846-8," <u>Military Historian and</u> Economist II (1917), 27-42.

155. General Henry B. Carrington, "Winfield Scott's Visit to Columbus", <u>Ohio Archaeological and Historical</u> Quarterly XIX (July 1910), 284.

156. James K. Polk, <u>Diary of a President 1845-1849</u>, ed. by Allen Nevins (London: 1929), <u>passim</u>.; also see, Daniel D. Barnard, "The Administration: Its Treatment of General Scott", American Review I (June 1848), 554-572.

295

157. "Military Contributions in Mexico," 30 Cong., 2 sess., H. doc. 47, serial 154, Brackett, U.S. Cavalry, "Our Army in Mexico", DeBow's Review II (1846), 426-430; "A General's Orderly in Mexico", Colburn's United Service Magazine I (May 1855), 78-85; Henry S. Lane, "The Mexican War Journal of Henry S. Lane", ed. by Graham A. Barringer, Indians Magazine of History LIII (December 1957), 383-434; John Donner, "Scott's Battles in Mexico", Harper's New Monthly Magazine XI (1855): 311-324; John Frost, The War and its Warriors Comprising a Complete History of All the Operations of the American Armies in Mexico, et. al. (Philadelphia: 1848), passim.; Samuel C. Reid, Jr., The Scouting Expedition of McCulloch's Texas Rangers, et. al. (Philadelphia: 1859), passim.; Scott, Memoirs, I, 381-551; (Daniel H. Hill), "The Battle of Chrubusco", Southern Quarterly Review XXII (1852), 78-116; (Daniel H. Hill), "The Battle of Contreras", Southern Quarterly Review XXI (1851), 373-426; John R. Kenly, Memoirs of a Maryland Volunteer War With Mexico in the Years 1846-7-8 (Philadelphia: 1873), et. al.; George C. Ferber, The Twelve Months Volunteer, or, Journal of a Private in the Tennessee Regiment of Cavalry, et. al., (Cincinnati: 1848), passim.; Hitchcock, Fifty Years, 202-258; Brevet Brigadier General E.D. Keyes, Fifty Year's Observations of Men and Events, et. al. (New York: 1884), 152-161; Lieutenant John James Neely, The Sign of the Eagle A View of Mexico - 1830 to 1858 (San Diego: 1970),

passim., Albert G. Brackett, General Lane's Brigade in Central Mexico (Cincinnati: 1854), passim.; E. Kirby Smith, To Mexico With Scott: Letters of Captain Kirby to his Wife 1917), passim.; P.G.T. Beauregard, With (Cambridge: Beauregard in Mexico, et. al., ed. by T. Harry Williams (Baton Rouge: 1956), passim.; Chamberlain, My Confession, passim.; Autobiography of an English Soldier in the United States Army Comprising Observations and Adventures in the United States and Mexico (New York: 1853), passim.; Captain Robert Anderson, an Artillery Officer in the Mexican War 1846-7, et. al. (New York: 1911), passim; General Scott and His Staff Comprising Memoirs of General Scott, Twiggs, et. al. (Freeport: 1900), passim.; Grant, Memoirs, I, 121-169; Major-General C.S. Hamilton, "Reminiscences of the Old Army Forty Years Ago", Commandery of the State of Wisconsin, Military Order of the Loyal legion of the United States War Papers I (1891), 31-46; Henry Heth, The Memoirs of Henry Heth, ed. by James L. Morrison (Westport: 1974), 49-74; also see, Ganoe, U.S. Army, 108-129; Dawson, Battles, II, 452-93; Edward S. Wallace, "The U.S. Cavalry in Mexico City", Military Affairs XIII (1949), 158-166; Major Joseph Bernado and Eugene H. Bacon, American Military Policy: Its Development Since 1775 (Harrisburg: 1955), 177-180; Brevet Lieutenant-Colonel W.B. Lane, "The U.S. Cavalry in the Mexican War", Journal of the West XI (April 1977), 273-284; Lester R. Dillon, "American Artillery in the Mexican War of

1846-1847", Military History of Texas and the Southwest II (1973), 7-29, 109-127, 149-172, 233-240; R.C. Bulerly, "Indiana in the Mexican War", Indiana Magazine of History XV (September, December 1919), 260-292, 293-326, XVI (March 1920), 46-48; Henry O. Whiteside, "Winfield Scott and the Mexican Occupation: Policy and Practice", Mid-America LII (April 1970), 102-118; Justin H. Smith, "Our Preparations for the War of 1846-8", Military Historian and Economist II (1917), 27-42; Smith, Mexican War, passim.; "General Winfield Scott," American Whig Review XII (September 1850): 270-289; Paxson, American Frontier, 351-360; James W. Pohl, "The Influence of Antoine Henri Jomini on Winfield Scott's Campaign in the Mexican War", Southwestern Historical Quarterly LXXVII (1973), 86-110; Colonel Manual Balletin, "The Battle of Angostina (Buena Vista)", Journal of the U.S. Cavalry Association VII (June 1894), 125-154; Singletary, War With Mexico, passim.; Seymour Connor and Obie B. Fawley, North America Divided the Mexican War, 1846-1848 (New York: 1971), passim.; Jacob Oswadel, Notes of the Mexican War (Philadelphia: 1885), passim.; Wormser, Yellowlegs, 79-99; Elliott, Scott, 417-552; Tuttle, Border Wars, 452-493; Leckie, Wars of America, 351-370; Douglas Southall Freeman, R.E. Lee: A Biography (4 vols.; New York: 1934-1935), I, 210-350; General Charles Hamilton, "Memoirs of the Mexican War", Wisconsin Magazine of History XIV (September 1930), 63-92; M.L. Thomlinson, "The Dragoons of El Paso", New Mexico Historical Review XXIII (1948), 217-224; Hughes, Rebellious Ranger, 25-56; Mahan, Militia and National Guard, 91-94; T. Harry Williams, P.G.T. Beauregard: Napoleon In Gray (Baton Rouge: 1954), 13-33; J.F.H. Claiborne, Life and Correspondence of John A. Quitman (2 vols.; New York: 1860), I, 227-400; Depeyster, Philip Kearny, 123-151; French, Two Wars, 41-84; Burdet Hart, The Mexican War (New Haven: 1847); Edward D. Mansfield, The Mexican War, et. al., (New York: 1849), passim.; Fayette Robinson, Thrilling Incidents of the Wars of the United States, et. al. (New York: 1855), 543-600.

158. Ashbel Smith, <u>Addresses Delivered in the Chapel at</u> <u>West Point before the Officers and Cadets</u>, et. al., (New York: 1848), 17-18.

159. "On the Means and Measures Necessary for the Military and Moral Defenses of the Country", <u>American State</u> <u>Papers, Military Affairs</u>, VI, 374 (1836).

160. Compare the negative appraisal of Brooks, <u>Mexican</u> <u>War</u>, 341, with Colonel A.W. Dauphin of the Missouri Volunteer Rifles, in Smith, Addresses, 15-16.

161. Davis, <u>Constitutionalist</u>, I, 48-49; for a more negative civilian assessment of the Mexican War, see, "Military Establishment", 75.

162. Mahan, Outpost, 36-37.

Footnotes

Chapter IV

- 1. "Our Army," 429.
- 2. Ibid., 430.
- 3. Davis, Constitutionalist, II, 395.

4. Brackett, <u>U.S. Cavalry</u>, 144; McKinney, <u>Education</u> <u>in Violence</u>, 65-71; Herrand Wallace, <u>U.S. Cavalry</u>, 73-76; Rodenbaugh and Haskin, <u>Army</u>, 211-213; 221-223; Jay A. Mathews, "The Second U.S. Cavalry in Texas, 1855-1861," <u>Military History of Texas and the Southwest</u> IV (1973): 329-231; <u>Frontier Forts</u>, 152-164; Starr, <u>Union Cavalry</u>, I, 48-49; Thiele, Evolution of Cavalry, 24-25.

5. Athearn, Forts/Upper Missouri, 152-164; also see, Brad Agnew, "The 1858 War Against the Comanches," <u>Chronicles</u> of Oklahoma XLIX (Summer 1971): 211-229.

6. Davis, Constitutionalist, II, 446.

7. Nolan, Cavalry, 60; Roemer, Cavalry, 38-39.

8. Hudson Strode, <u>Jefferson Davis American Patriot</u> <u>1801-1861</u> (New York: 1955), 245-295; Weigley, <u>U.S. Army</u>, 190-191; Roy Franklin Nichols, <u>Franklin Pierce Young Hickory</u> <u>of the Granite Mountains</u> (2d ed.; Philadelphia: 1969), 248, 271-272, 295-296, 385-387; also see, April Kopp, "Camel Corps U.S.A.," American History Illustrated XVI (December 1981): 8-17; Odie B. Faulk, <u>The U.S. Camel Corps An Army</u> Experiment (New York: 1976), passim.

9. Strachan, <u>European Armies</u>, 111-112; Ropp, <u>War</u>, 144-145; Preston and Wise, <u>Men In Arms</u>, 244-245; E.L. Woodward, <u>War and Peace In Europe 1815-1870</u> (New York: 1931), 18-28; Barbazon, <u>soldiers</u>, 254-273; MacDougall, <u>Modern Warfare</u>, 14-15; Fairfax Downy, <u>Sound of the Guns the</u> <u>Story of American Artillery</u>, et. al., (New York: 1955), 85-117.

10. Martin Roe Smith, <u>Harper's Ferry ARmory and the</u> <u>New Technology The Challenge of Change</u> (Ithaca: 1977), 323-335; also see, Jack Abbott, "The Armory at Springfield," <u>Harper's New Monthly Magazine XXVI</u> (July 1852): 144-161.

11. Strachan, <u>European Armies</u>, 123-124; Crevald, <u>Supply in War</u>, 82-104; Edwin A. Pratt, <u>The Rise of Rail-</u> <u>Power in War and Conquest 1833-1914</u> (London: 1915), passim.; Dennis E. Showalter, <u>Railroads and Rifles Soldiers</u>, <u>Technology</u>, and the Unification of Germany (Hamden: 1975), 19-53; Campbell, "Railroads in National Defense," 361-378; "Triumphs of Steam," 345-356.

12. "National Defense," 125; "Atlantic Steam Navigation," 118-146; in addition, see, Daniel R. Headrick, "The Tools of Imperialism: Technology and the Expansion of European Colonial Empires in the Nineteenth Century," Journal of Modern History LI (June 1979): 3235-241. 13. "The Electric Telegraph," <u>Quarterly Review</u> XCV (June 1854): 118-164; Strachan, <u>European Armies</u>, 24; see as well, Brigadier-General Albert Z. Meyer, <u>A Manual of</u> <u>Signals: For the Use of Officers in the Field</u>, et. al. (rev. ed.; New York: 1868).

14. Graham, <u>Art of War</u>, 169-170; Strachan, <u>European</u> Armies, 41-42.

15. Irvine, "Origins of Capital Staffs," 168-179.

16. MacDougall, Modern Warfare, 13-15; Craighill, Pocket Companion, 72; Szaband, Modern War, 32-33; Schalk, Art of War, 62-66; "Modern Fortification," Edinburgh Review CII (July 1855): 202-236; Viktor Ernest Karl Rudolf von Schelia, A Treatise on Coastal Defense (London: 1868), passim.; "Sea-Coast Defense," 314-325; Montgomery, Warfare, 419-420; Downey, Sound of the Guns, 85-117; Prentice G. Morgan, "The Forward Observer," Military Affairs XXIII (Winter 1959-1960): 209-212; Dupuy, Weapons and Warfare, 192-193; Huston, Sinews of War, 118-120; Howard, War/European History, 102-104; Colonel Maitland, "On the Metallurgical Manufacturing of Modern British Ordnance," Ordnance Notes, no. 195 (May 23, 1882): 1-48; Fairfax Downey, "Field and Siege Pieces," Civil War History II (1956): 65-74; Cavalier de Cuverille, "The Progress in Naval Artillery from 1855 to 1880," Ordnance Notes no. 203 (June 19, 1882): 1-24; Robert S. Browning, Two If By Sea the Development of American Coastal Defense Policy (Westport: 1983), 24-58, 78-127.

17. Rothenberg, Age of Napoleon, 65.

Kingsbury, Elementary Treatise, 11-14; "Modern 18. Tactics," 6-8; Wilcox, Theory of Rifle Practice, 167-174; Jerrold, French Under Arms, 109-110; see as well, Colonel John W. Wright, "Some Notes on the Continental Army," William and Mary Quarterly XI 2nd series (April 1931): 87-90, 98-100; Gluckman, Martial Pistols, 73; Dowling, "Infantry Weapons," 228-230; B.H. Liddell Hart, "Armed Forces and the Art of War: Armies," in J.P.T. Bury, ed., The New Cambridge Modern History (15 vols.; Cambridge, U.K.: 1960), X, 303; Strachan, European Armies, 111-112; Ross, Flintlocks to Rifles, 13-36; Ropp, War, 30-34; Pivka, Armies/Napoleonic Era, 54-65; Huston, Sinews of War, 129-131; T.H. McGuffie, "Musket and Rifle," History Today Part I, VII (April 1957): 257-263; Part II, VII (July 1957): 473-479; B.P. Hughes, Fire Power Weapon Effectiveness on the Battlefield 1630-1850 (New York: 1974), 10-13, 26-35; Millis, Arms and Men, 19-20; Major C.H.B. Pridham, Superiority of Fire A Short History of Rifles and Machine Guns (London: 1945), 7-8. W. Ommundsen and Ernest H. Robinson, Rifles and Ammunition, et. al., (New York: 1915), 1-20.

19. Nickerson, Armed Horde, 47-48.

20. Magrath, Art of War, 99.

21. "Modern Tactics," 7-8; "Rifled Firearms," <u>Eclectic</u> <u>Magazine of Foreign Literature, Science and Art</u> LIII (August 1861): 556; Rothenberg, <u>Art of War</u>, 66, McNeill, <u>Pursuit of</u> <u>Power</u>, 231; Hughes, <u>Firepower</u>, 11; Strachan, <u>European</u> <u>Armies</u>, 112.

22. "Percussion Guns of the Army," <u>Military and Naval</u> <u>Magazine of the United States</u> II (October 1833): 111-112; Kingsbury, <u>Elementary Treatise</u>, 14-15; Rothenberg, <u>Art of</u> <u>Warfare</u>, 66; Strachan, <u>European Armies</u>, 112, Fuller, <u>Armament</u>, 110-111; Glickman, <u>Martial Pistols</u>, 53-56; Headrick, "Tools of Imperialism," 249-250; Ross, <u>Flintlocks</u> <u>to Rifles</u>, 161-162; Fuller, <u>Conduct of War</u>, 87; Ommundsen and Robinson, <u>Rifles and Ammunition</u>, 21.

23. Strachan, <u>European Armies</u>, 112; Dupuy, <u>Genius for</u> <u>War</u>, 76; Showalter, <u>Railroads and Rifles</u>, 81-82; Carl C. Davis, <u>Arming the Union Small Arms in the Civil War</u> (Port Washington: 1973), 84-85, 89-103, 107-119; Lloyd, <u>HIstory</u> of Infantry, 237; Goerlitz, German General Staff, 64.

24. John Jessup, "Problems of Selecting a Standard Weapon for the Army: the Breechloader Issue," in United States Commission on Military History, <u>Colloquium on</u> <u>Military History Proceedings</u> (Chicago: 1979), 5-30; Smith, <u>Harpers Ferry Armory</u>, 184-304; Davis, <u>Arming the Union</u>, 107-114; Claude E. Fuller, <u>The Breechloader in Service</u> 1816-1917 (New Milford: 1965), 17-52; Huston, <u>Sinews of War</u>, 114-115; Rosebush, <u>Frontier Steel</u>, XVI, 123-134; Lewis R. Berkeley, Notes on Cavalry Weapons of the American Civil War 1861-1865 (Washington, D.C.: 1961), 6-29; R.T. Huntington, <u>Hall's</u> <u>Breechloaders</u> (York: 1972), passim.

- 25. "Modern Tactics," 11.
- 26. <u>Ibid</u>.
- 27. Ibid., 9.
- 28. Szaband, Modern War, 34.

Jerrold, French Under Arms, 1-12; Showalter, 29. Railroads and Rifles, 93-94; Strachan, European Armies, 112-113; McWhiney and Jamison, Attack and Die, 48-50; Grady McWhiney, "Who Whipped Whom? Confederate Defeat Reexamined," Civil War History XI (March 1968): 8-9; Fuller, Armament, 110-111; Headrick, "Tools of Imperialism," 248-250; Daniel R. Headrick, The Tools of Empire Technology and European Imperialism in the Nineteenth Century (New York: 1981), 96-103; Colonel T.N. Dupuy, Numbers, Predictions and War: Using History to Evaluate Combat Factors and Predict the Outcome of Battles (Indianapolis: 1979), 9; Dupuy, Evolution of Weapons, 191-195; Pridham, Superiority of Fire, 7-8, 11-12; Ropp, War, 144-145; Baron Cottasloe (T.F. Freemantle), The Book of the Rifle (London: 1901), passim.; Montgomery, Warfare, 419-410; Captain E. Eames, The Rifle in War (Fort Leavenworth: 1909), passim.; Ommundsen and Robinson, Rifles and Ammunition, 27-53.

30. Halleck, Elements, 131-132.

31. Wilcox, <u>rifles</u>, 237.

32. Ibid., 244.

33. Ibid.

34. Szaband, Modern War, 34.

Bloch, Future of War, passim.; David Armstrong, 35. Bullets and Bureaucrats The Machine Gun and the United States Army 1861-1916 (Westport: 1982), passim.; William L. Taylor, "The Debate Over Changing Cavalry Tactics and Weapons, 1900-1914," Military Affairs XXVIII (Winter 1965): 173-183; "Machine Guns: Their Status in Warfare," Ordnance Notes no. 173 (January 10, 1882): 1-21; A.W. Preston, "British Military Thought, 1856-90," Army Quarterly LXXXIX (1964): 57-74; Jay Luvaas, The Military Legacy of the Civil War the European Inheritance (Chicago: 1959), passim.; Ellis, Armies in Revolution, 143-146; Sir Henry M. Havelock-Allan, Three Main Military Questions of the Day, et. al. (London: 1867), 35-80; Henderson, Science of War, 51-77; Sir Evelyn Wood, Achievements of Cavalry (London: 1897), passim.; Major-General Carl von Schmidt, Instructions for the Training, Employment and Leading of Cavalry (reprint; Westport: 1968 (1881)), 2-15; Brian Bond, "Doctrine and Training in the British Cavalry 1870-1914," in Howard, ed., Theory and Practice of War, 97-125; Foch, Principles of War, 1-47; Charles Chenevix Trench, "From Arquebus to Rifle: the Pursuit of Perfection," History Today XXIII (June 1973): 407-417; Lieutenant-Colonel F.N. Maude, "Military Training and Modern Weapons," Contemporary Review LXXVII (1900):

305-322; John N. Lynn, "Self Image and Weaponry: The French Fascination with the Pike 1724-1794," in <u>Colloquium on</u> <u>Military History</u>, 21-40, is an excellent study of this same phenomenon of military organizations, due to tradition, conservatism and romanticism, remaining wedded to weapons and tactics long after they have become outmoded; also see, Colonel Ardet du Picq, <u>Battle Studies Ancient and Modern</u> (reprint; New York: 1921 (1879)), 180-202; Paddy Griffith, Forward into Battle Fighting Tactics from Waterloo to <u>Vietnam</u> (Sussex: 1981), passim.; presents a counter position, which is to say the least, very argumentative and not terribly well researched.

36. Jomini, Art of War, 43.

37. Jomini, <u>Art of War</u>, 325; also see, Gooch, <u>Armies</u>, 69-70, 83-85.

38. DuPont, "West Point in the Fifties," 307-308; Weigley, <u>U.S. Army</u>, 190-191.

39. Compare the infantry manual of Scott (1838) with Hardee's revision (1861).

40. Morgan, "Forward Observer," 209-212; see as well, Smith, <u>Modern Tactics</u>, XIV-XX, on the portable field telegraph; also see, in general, Meyer, <u>Manual of Signals</u>, passim.

41. Jomini, Art of War, 326.

42. Jack Coggins, <u>Arms and Equipment of the Civil War</u> (Garden City: 1962), 28-29. 43. Roemer, <u>Cavalry</u>, 55-56; see in addition, Szaband <u>Modern War</u>, 33.

44. Denison, Modern Cavalry, 18.

45. Wilcox, <u>Rifles</u>, 237.

46. Colonel James J. Graham, <u>Military Ends and Moral</u> <u>Means Exemplifying the Higher Influences Affecting Military</u> <u>Life and Character</u>, et.al. (London: 1864), passim.; Best, <u>War and Society</u>, 252-256; Preston and Wise, <u>Men in Arms</u>, 184-185; Kitchen, <u>Military History/Germany</u>, 44-45; Ellis, <u>Armies in Revolution</u>, passim.; Herbert, <u>Coruna</u>, 28-30, 124-126, 201-203; Fuller, <u>Light Infantry</u>, passim.; Picq, <u>Battle</u> <u>Studies</u>, passim.; Sullivan, <u>Bugeaud</u>, 77-93; Mahan, "Methods of Indian Warfare," 254-275; Russell, "Redcoats/Wilderness," 629-652; Martin van Crevald, <u>Fighting Power German and U.S.</u> <u>Army Performance, 1939-1945</u> (Westport: 1982), passim.; the forerunner of the modern citizen-soldier can be seen in Rifleman Harris, <u>Recollections of Rifleman Harris</u>, et. al. (reprint; Hampden: 1970).

47. Davis, <u>Constitutionalist</u>, II, 446; Bernardo and Bacon, <u>American Military Policy</u>, 188.

48. Brackett, U.S. Cavalry, 144.

49. Morton, <u>American Fortification</u>, passim.; "National Defense," 12; "Sea-Coast Defense," 314-325; "Ancient and Modern Fortresses," <u>Blackwood's Magazine</u> LXXV (May 1854): 522-532; Barnard, <u>Sea-Coast Defense</u>, passim.; Schelia, Coastal Defense, passim.; Browning, Two If By Sea, 24-58; 78-127; also see in general, Willard Robinson, <u>American</u> <u>Forts: Architecture Form and Function</u> (Champaign: 1977), passim.

50. Lieutenant-Colonel E. Bruce Hamley, <u>The Story of</u> <u>the Campaign of Sebastapool</u> (New York: 1968), passim.; Lieutenant-Colonel John Adye, <u>A Review of the Crimean War</u> (reprint; East Andsley: 1973); "The War in the Crimea," <u>Edinburgh Review</u> CI (January 1855): 261-290; Preston and Wise, <u>Men In Arms</u>, 209-211; Hew Strachan, "Soldiers, Strategy and Sebastapool," <u>Historical Journal</u> XXI (June 1978): 303-325; Fortescue, <u>British Army</u>, VII, 75-110; Barnet, <u>Britain and Her Army</u>, 283-294; Ropp, <u>War</u>, 146-150; Ellis, <u>Armies</u>, 144-146.

51. Hagerman, "Jomini/Mahan," 208.

52. On the aristocratic fraternity of officers, see, "The Armies of Europe," <u>Putnam's Magazine</u> VI (1855): 193; on the new arms race, see, Howard, <u>War</u>, 102-104; Fuller, Armament, 110-118; Montgomery, Warfare, 116.

53. Delafield, <u>Art of War</u>, passim.; Mordecai, <u>Military</u> <u>Commission</u>, passim.

54. Captain George B. McClellan, <u>The Armies of Europe</u>, et. al. (Philadelphia: 1861); also see, "Report of the Secretary of War Communicating the Report of Captain George B. McClellan," et. al., 35 Cong., sp. S. ex. doc. 1, serial 916; in addition, see, Weston R. Crosbie, "The Crimson War," in James Lawford, ed., The Cavalry (Berkshire: 1976), 143150; Cecil Woodham-Smith, <u>The Charge of the Light Brigade</u> (The Reason Why) (reprint; New York: 1968 (1953)), passim.; Preston and Wise, <u>Men In Arms</u>, 210-211; Breteron, <u>The Horse</u>, 96-97; Ellis, Mounted Warfare, 144-145.

- 55. McClellan, Armies of Europe, 386.
- 56. Ibid.
- 57. Ibid.
- 58. McClellan, European Cavalry, 116.
- 59. McClellan, Armies of Europe, 390.
- 60. Maury, Recollections, 95-96.

61. For example, see, Cooper, <u>Cooper's Cavalry</u> <u>Tactics</u>; Davis, <u>Trooper's Manual</u>; McClellan, <u>Regulations/Cavalry</u>, U.S. War Department, <u>Cavalry Tactics</u> (1841); U.S. War Department, <u>Cavalry Tactics</u> (1861).

62. U.S. War Department (Cooke), <u>Cavalry Tactics</u> (1861), 69-71.

63. (Captain of Infantry), <u>Hints Bearing on the United</u> States Army, et. al. (Philadelphia: 1858), 5.

- 64. Ibid.
- 65. Ibid., 6.
- 66. Ibid., 7.
- 67. Ibid., 8.
- 68. Ibid.

69. In general, see, Asprey, <u>War In The Shadows</u>, I, passim.; Caldwell, Small <u>Wars</u>, passim.

70. Captain John N. Opie, <u>A Rebel Cavalryman with Lee</u>, <u>Stewart and Jackson (reprint; Nashville 1972 (1899))</u>, 54.

71. <u>One Rebel Cavalryman</u>, passim.; Sanford, <u>Rebels and</u> <u>Redskins</u>, 131-309; Sheridan, <u>Memoirs</u>, 348-387; Wilson, <u>Old</u> <u>Flag</u>, I, 326-416, II, 107-294; James H. Wilson, "'Your Left Arm', James H. Wilson's letters to Adam Badeau," ed. by James P. James, <u>Civil War History</u> XII (September 1966), 239-240. Philander H. Nesbitt, "Eight Months in Missouri: The Civil War Letters of Philander H. Nesbitt," ed. by Norman Stewart, <u>Missouri Historical Review</u> LXXV (April 1981): 261-284; Woody, <u>Advanced Retreat</u>, 293-311; Sergeant Isaac Gause, <u>Four Years with Five Armies</u> (New York: 1908), passim.; Lieutenant-Colonel W.W. Blackford, <u>War Years with Jeb Stuart</u> (New York: 1945), 16-254, Brackett, U.S. Cavalry, 167-235.

72. <u>History of the Eleventh Pennsylvania Volunteer</u> <u>Cavalry</u>, et. al. (Philadelphia: 1903); Reverend Louis N. Boudry, <u>Historical Records of the Fifth New York Cavalry</u>, et. al. (Albany: 1874); Sergeant Thomas Crotts, Compl. <u>History of the Service of the Third Ohio Veteran Ohio</u> <u>Cavalry</u>, et. al. (Toledo: 1910); Major Benjamin Crownshield <u>A History of the First Regiment of Massachusetts Cavalry</u> <u>Volunteers</u> (Boston: 1891); W.L. Curry, compl. <u>Four Years in</u> <u>the Saddle, History of the First Regiment Ohio Volunteer</u> <u>Cavalry</u>, et. al. (Columbus: 1898); Edward A. Davenport, ed. <u>History of the Ninth Regiment Illinois Cavalry Volunteers</u> (Chicago: 1888); Thomas Cornblaser, <u>Saber Stories of the</u> Pennsylvania Dragoons, et. al. (Philadelphia: 1884); Abner Hard, History of the Eighth Cavalry Regiment Illinois Volunteers, et. al. (Aurora: 1868); Charles H. Lothrop, A History of the First Regiment Iowa Cavalry, et. al. (Cayans: 1890); Captain William N. McDonald, A History of the Laurel Brigade (Baltimore: 1907); Sergeant B.F., History of the 72nd Indiana Volunteer Infantry, et. al. (Lafayette: 1882); William Pickerell, History of the Third Indiana Cavalry (Indianapolis: 1906); Henry R. Pype, Ride to War -- The History of the First New Jersey Cavalry (New Brunswick: 1961); William F. Scott, The Story of a Cavalry Regiment-The Career of the Fifth Iowa Veterans, et. al. (New York: 1893); Edward P. Tobe, History of the First Maine Cavalry 1861-1865 (Boston: 1887); J.P. Young, The Seventh Tennessee Cavalry (Confederate), A History (Dayton: 1976); also see, Starr, Union Cavalry, passim.; Charles D. Rhodes, History of the Cavalry of the Army of the Potomac, et. al., (Kansas City: 1900); Edward G. Longacre, Mounted Raids of the Civil War (South Brunswick: A.S. Barnes, 1975).

Bibliography Primary Sources: Government Documents

- "Abstract of the Annual Returns of the Militia of the United States", 30 Cong., 2 sess., H. ex. doc. 49, serial 541.
- Adams, John, "Military Academy and Reorganization of the Army", <u>American State Papers, Military Affairs</u>, I, 133-144 (1800).
- "Annual Report of the Secretary of War, showing the Condition of that Department in 1835", <u>American State</u> <u>Papers, Military Affairs</u>, VII, 571-745.
- Calhoun, John C., "Strength of the Army and its Disposition", <u>American State Papers, Military Affairs</u>, I, 669-672 (1817).
- "Causes of Hostilities of the Creek and Seminole Indians in Florida", et. al., <u>American State Papers, Military</u> Affairs, VI, 450-574 (1836).
- "Causes of Hostility of Seminole and other Indians in Florida, and Military Arrangements and Preparations Against Them", <u>American State Papers, Military Affairs</u>, VI, 433-443 (1836).

- "Colonel Z. Taylor's Account of the Battle with the Seminole Indians near the Kissimmee River, in Florida, on December 25, 1833", <u>American State Papers, Military</u> <u>Affairs</u>, VII, 985-992 (1838).
- "Correspondence with Officers of the Army Relative to the Posts and Military Forces Required for the Protection of the Western Frontier of the United States", <u>American</u> <u>State Papers, Military Affairs</u>, VII, 947-962.
- "Causes of the Failure of the Expedition against the Indians, in 1791 under the Command of Major-General St. Clair", <u>American State Papers, Military Affairs</u>, I, 36-45 (1793).
- "Causes of the Failure of the Northern Army", <u>American State</u> <u>Papers, Military</u>, I, 439-488 (1814).
- "Cavalry Instruction", 23 Cong., 1 sess., H. Reports 419, serial 262.
- "A Comparative Statement of the Exercise of Enlistment, Equipment, Maintenance, & c. of Cavalry or Mounted Men and Infantry, & c.", 25 Cong., 2 sess., H. doc. 250, serial 328.
- "Defense Western Frontier-Organization, Staff, Armies", 25 Cong., H. Ex. doc. 114, serial 325.
- "Description and Estimates of Complete Line of Defense, by Military Works, on Western Frontier", 25 Cong., 2 sess., <u>Military Affairs</u>, 769; <u>American State Papers</u>, 22.

"Estimate of Appropriation-Indian Hostilities", 25 Cong., 2 sess., H. doc. 265, serial 328.

"Frontier U.S.; Defense of Northern and Western", 25 Cong., 3 sess., H. doc. 117, serial 346.

- Gaines, Brevet Major-General Edmond, "General Remarks Concerning the Militia of the United States", <u>American</u> <u>State Papers, Military Affairs</u>, IV (1828).
- "Increase of the Army", <u>Debates in Congress</u>, Senate (June 10, 1836), 1745-1758.
- Jefferson, President Thomas, "Military Academy", <u>American</u> <u>State Papers, Military Affairs, I, 228-230 (1800).</u>
- "Major Bent Riley's Report on the 1829 Escort", 21 Cong., 1 sess., S. doc. 46, serial 182.
- "Memorial of Missouri Legislature against Disbanding Second Regiment of Dragoons", 28 Cong., 1 sess., H. doc. 25, serial 441.
- "Military Academy at West Point", <u>American State Papers</u>, Military Affairs, I, 837-848 (1818).
- "Military Academy at West Point", <u>American State Papers</u>, <u>Military Affairs</u>, II, 75-98 (1820).
- "Military Blockhouse Forts, and Stockades in Route to Oregon, and Regiment of Mounted Riflemen to Protect Emigrants", 29 Cong., 1 sess., H. rptrs. 350, serial 201.

"Military Road, Western Frontier, & c. letter from the

Secretary of War", et. al., 25 Cong., 2 sess., H. doc. 278, serial 328.

- "The Militia", <u>American State Papers, Military Affairs</u>, I, 824-837.
- "Mounted Riflemen", 30 Cong., 1 sess., H. rptrs. 342, serial 526.
- "Mounted Troops", <u>Debates in Congress</u>, H. of Rep. (June 9, 1832), 3387-3397.
- "On Converting Corps of Mounted Rangers into a Regiment of Dragoons", 23 Cong., 2 sess., H. rp. 17, serial 236.
- "On Desertions from Army", 19 Cong., 1 sess., H. doc. 61, serial 134, H. doc. 140, serial 138.
- "On Employment of Volunteer Mounted Gunmen on Western Frontier," 30 Cong., 1 sess., H. doc. 234, serial 174.
- "On the Establishment of a Line of Posts and Military Roads for the defense of the Western Frontiers against the Indians", <u>American State Papers, Military Affairs</u>, VI, 640-650 (1836).
- "On the Means and Measures Necessary for the Military and Moral Defenses of the Country", <u>American State Papers</u>, Military Affairs, VI, 365-391.
- "Plan to Prevent Desertion in Army", 20 Cong., 1 sess., S. doc. 92, serial 650.
- "Plans for Defense and Protection of Western Frontiers and Number of Indians and Warriors on the Frontiers", 25

Cong., 2 sess., <u>Military Affairs</u>, 753, <u>American State</u> Papers, 222.

- "Relative to the Efficiency of Mounted Volunteers for the Protection of the Frontiers", <u>American State Papers</u>, <u>Military Affairs</u>, VI, 828-829.
- "Remarks of Mr. H.A. Harabran of Georgia, two Regiments of Riflemen," <u>Congressional Globe</u>, 29 Cong., 1 sess., H. of Rept., 476-478 (March 26, 1846).
- "Reorganization of Militia of United States, more effectively to Provide National Defense", et. al., 26 Cong., l sess., S. doc. 560, serial 1361.
- "Remounting 2d Regiment of Dragoons", 28 Cong., 1 sess., H. doc. 25, serial 441.
- "Report and Maps on Expedition of Dragoons under Colonel Henry Dodge to Rocky Mountains in 1835 to locate Indians," 24 Cong., 1 sess., <u>Military Affairs</u>, 6, serial 654.
- "Report of a Board of Officers on Improvements in Firearms by Hall, Colt, Cochran, Hackett, Fischer, and Leavitt, as compared with the United States Musket and Rifle," et. al., <u>American State Papers, Military Affairs</u>, VII, 466-482 (1837).
- "Report of Secretary of War Relative to Orders and Instructions to the Commander-in-Chief in Florida to Call into Service Militia and Volunteers," et. al., <u>American</u> <u>State Papers, Military Affairs</u>, VII, 918-924 (1838).

"Representative R.M. Johnson, Committee on Military Affairs, Converting the Rangers into a Regiment of Dragoons," <u>American State Papers, Military Affairs</u>, XX, 126-128 (1832).

- "Resolution of Legislature of Louisiana to Maintain 2d Regiment Dragoons," 27 Cong., 3 sess., H. doc. 156, 422.
- "Report of the Secretary of War Communicating the Report of Captain George B. McClellan," et.al., 35 Cong., sp., S. ex. doc. 1, serial 916.
- "Rules and Regulations of the Army for 1813," <u>American State</u> Papers, Military Affairs, I, 426-436.
- "Speech of Mr. C.C. Lerin of Pennsylvania on Regiment of Mounted Rifles," <u>Congressional Globe</u>, 29 Cong., 1 sess., H. of Rep. 605-609 (April 7, 1846).
- "Speech of Mr. Clernard of Illinois on Regiment of Riflemen," <u>Congressional Globe</u>, 29 Cong., 1 sess., H. of Rep., 420-421.
- "System of Fortification Recommended by the Board of Engineers," <u>American State Papers, Military Affairs</u>, III, 245-260 (1826).
- "Western Frontier Correspondence on the Subject of the Protection of the Western Frontier," et. al., 25 Cong., 2 sess., H. doc. 276, serial 328.

Military Law: Treatise and Statutory Compilations.

- Callan, John F., <u>The Military Laws of the United States</u>, et. al., (Baltimore: John Murphy, 1858).
- "Cross, Trueman, Compiled Military Laws of the United States...," et. al., <u>North American Review</u>, new series XIV (XXIII) (October 1826), 253-274.
- Holgazan, "American Military Laws," (A Review) <u>Southern</u> <u>Literary Messenger XII (July 1846), 417-426.</u>
- O'Brien, John, <u>A Treatise on American Military Laws and the</u> <u>Practice of Courts Martial, with Suggestions for their</u> Improvement (Philadelphia: Lea H. Blanchard, 1846).

Collections of Documents and Private Papers

- The Black Hawk War 1831-1832 Collections of the Illinois State Historical Library (2 vols.; Springfield: Illinois State Historical Library, 1973).
- Calhoun, <u>The Papers of John C. Calhoun</u>, ed. by W. Edwin (15 vols.; Columbia: University of South Carolina, 1981).
- Clay, Henry, <u>The Papers of Henry Clay</u>, ed. by James F. Hopkins and Mary W.M. Hargreaves (7 vols.; Lexington: University of Kentucky Press, 1959-1981).
- Davis, Jefferson, <u>Jefferson Davis Constitutionalist: His</u> <u>Letters, Papers and Speeches</u> (10 vols.: J.J. Little, 1923).

Expedition, Inspection and Travel Reports.

- Bliss, Robert S., "The Journal of Robert S. Bliss with the Mormon Battalion," <u>Utah Historical Quarterly</u> IV (July 1931), 67-96.
- Carleton, Lieutenant J. Henry, <u>The Prairie Loqbooks Draqoon</u> <u>Campaigns to the Pawnee Villages in 1844, and to the</u> <u>Rocky Mountains in 1845</u>, ed. by Louis Pelzer (Chicago: Coxton Club, 1943).
- Catlin, George, <u>North American Indians</u> (2 vols.; Edinburgh: John Grant, 1926).
- Cooke, Captain Philip St. George, "A Journal of the Santa Fe Trail," ed. by William E. Connelly, <u>Mississippi Valley</u> <u>Historical Review</u> XII (June, September, 1925), 72-98, 227-255.
- Cooke, Brevet Lieutenant-Colonel Philip St. George, "Report of Lieutenant Colonel P. St. George Cooke of his March from Santa Fe, New Mexico to San Diego, Upper California," ed. by Hamilton Gardner, <u>Utah Historical</u> <u>Quarterly XII (January 1954), 15-40.</u>
- Croghan, Colonel George, <u>Army Life on the Western Frontier:</u> <u>Selections from the Official Reports made between 1826</u> <u>and 1845</u>, et. al. (Norman: University of Oklahoma Press, 1958).

"Dragoons in the Iowa Territory, 1845," <u>Iowa Journal of</u> <u>History LI (April 1953), 156-182.</u>

- Emory, W.H., <u>Notes of a Military Reconnaissance from Fort</u> <u>Leavenworth in Missouri to San Diego, in California</u>, et. al., (Washington, D.C.: Wendell and Van Benthuzen, 1848).
- Evans, Eastwick, <u>A Pedestirous Tour, of Four Thousand Miles,</u> <u>Through the Western States and Territories</u>, et. al., in Reuben Gold Twaites, compl., <u>Early Western Travels</u> <u>1748-1846</u> (24 vols.; Cleveland: Arthur H. Clark, 1904-1907), vol. 8.
- Flagg, Edmund, <u>The Far West or, A Tour Beyond the Mountains</u>, et. al. (New York: Harper, 1838).
- Ford, Captain Lemuel, "Captain Ford's Journal of an Expedition to the Rocky Mountains," edited by Louis Pelzer, <u>Mississippi Valley Historical Review</u> XII (March 1926): 550-579.
- Gibson, George Rutledge, <u>Over the Chihurahu and Santa Fe</u> <u>Trails, 1847-1848</u>, ed. by Robert W. Frazer (Albuquerque: New Mexico University Press, 1981).
- Green, Lieutenant Duff C., "Exploring the Rio Grande: Lt. Duff C. Green's Report of 1852," ed. by Ronnie C. Tyler, <u>Arizona and the West</u> X (Spring 1968), 43-60. Hoffman, Charles Fenno, <u>A Winter in the West</u>, et. al. (n.p.)

(1863?)).

- Irving, Washington, <u>A Tour of the Prairies</u> (reprint: Norman: University of Oklahoma Press, 1956 (1836)).
- "Journal of the Atkinson-O'Fallen Expedition," ed. by Russell Reid and Clell G. Gannon, <u>Nebraska History</u> IV (October 1929), 5-56.
- "A Journal of the First Dragoons in the Iowa Territory, 1844," ed. by Robert Rutland, <u>Iowa Journal of History</u> LI (January, April 1953), 57-78, 156-182.
- Kirwan, John S., "Patrolling the Santa Fe Trail: Reminiscences of John S. Kirwan," ed. by Merril J. Maittes, <u>Kansas Historical Quarterly</u> XXI (Winter 1955), 569-587.
- Latrode, Charles Joseph, <u>The Rambler in North America:</u> <u>MDCCXXVII-MDCCXXXIII</u> (2 vols.; London: R.B. Seely, 1835).
- Kearny, Stephen Watts, "Journal of Stephen Watts Kearny," ed. by Valentine Mott Pointer, <u>Missouri Historical</u> <u>Society Collections</u> XI (1908), 8-29, 99-131.
- Mansfield, Colonel Joseph King Ferro, <u>Mansfield on the</u> <u>Condition of the Western Forts 1853-54</u> (Norman: University of Oklahoma Press, 1963).
- Marcy, Captain Randolph B. and McClellan, Brevet Captain George B., <u>Exploration of the Red River of Louisiana in</u> <u>the year 1852</u> (Washington, D.C. <u>A.O.P.</u> Nebrabron, 1854).

- Maury, Lieutenant Sylvester, "Lt. Sylvester Maury's Report on His March in 1855 from Salt Lake City to Fort Tezon," ed. by Lynn R. Bailey, <u>Arizona and the West</u> VII (Winter 1965), 329-346.
- Oliphant, Laurence, <u>Minnesota and the Far West</u> (Edinburgh: William Blackwood, 1854).
- Parker, W.B., <u>Notes Taken During the Expedition Commanded by</u> <u>Capt. R.B. Marcy, U.S.A. through Unexplored Texas in</u> <u>the Summer and Fall of 1854</u> (Philadelphia: Hays & Zell, 1856).
- Preuss, Charles <u>Exploring With Fremont</u>, et. al. (Norman: University of Oklahoma Press, 1958).
- Quaife, N.M., compl. and ed., "Journals and Reports of the Black Hawk War," <u>Mississippi Valley Historical Review</u> XII (December 1925), 392-412.
- Scott, General Winfield, "The Indian War of 1858," <u>Washing-</u> ton <u>Quarterly</u> II (April 1908), 237-240.
- Tracy, Captain Albert, "Journal 1858-1860," <u>Utah State</u> <u>Historical Society</u> XIII (October 1945), IX-XIII, 1-119.

Turner, Captain Henry Smith, <u>The Original Journals of Henry</u> <u>Smith Turner with Stephen Watts Kearny to New Mexico</u> <u>and California 1846-1847</u>, ed. by Dwight L. Clarke (Norman: University of Oklahoma Press, 1966).

Welby, Adland, A Visit to North America and the English

<u>Settlements in Illinois</u>, et. al., in Twaites, compl., Early Western Travels, XII.

Westmore, Major Alphonso, "Diary of a Journey to Santa Fe, 1828," ed. by E.E. Stephens, <u>Missouri Historical Review</u> VIII (July 1914), 177-197.

Autobiographies, Diaries, Journals and Letters.

- Anderson, Captain Robert, <u>An Artillery Officer in the</u> <u>Mexican War 1846-7</u>, et. al. (New York: G.P. Putnam, 1911).
- Autobiography of an English Soldier in the United States Army Comprising Observations and Adventures in the States and Mexico (New York: Stringer & Townsend, 1853).
- Averell, William Woods, <u>Ten Years in the Saddle the Memoirs</u> of William Woods Averell, ed. by Edward K. Eckert and Nicholas J. Amato (San Rafael: Presidio Press, 1978).
- Becknell, Captain Thomas, "The Journals of Capt. Thomas Becknell from Boone's Lick to Santa Fe and from Santa Cruz to Green River," <u>Missouri Historical Review</u> II (January 1910), 65-84.
- Bemrose, John, <u>Reminiscences of the Second Seminole War</u>. ed. by John K. Mahan (Gainesville: University of Florida Press, 1966).

Bennett, James A., Forts and Forays A Dragoon in New Mexico

1850-1856, ed. by Clinton E. Edwards and Frank D. Reese

(Albuquerque: University of New Mexico Press, 1948).
Benton, Senator Thomas Hart, <u>Thirty Years View: or a</u>
<u>History of the American Government for Thirty Years,
1820 to 1850</u>, et.al., (2 vols.; New York: D. Appleton,
1854).

- Beauregard, P.G.T., <u>With Beauregard in Mexico the Mexican</u> <u>War Reminiscences</u>, ed. by T. Harry Williams (Baton Rouge: Louisiana State University Press, 1956).
- Bieber, Ralph P., compl. and ed., <u>Marching With the Army of</u> <u>the West, 1846-1848</u> (Glendale: Arthur H. Clarke, 1936).
- Borcke, Heros van, <u>Memoirs of the Confederate War for</u> Independence (2 vols.; New York: Peter Smith, 1938).
- Boyd, Mrs. Orsemus Bronson, <u>Cavalry Wife in Tent and Field</u> (New York: J. Sewin Trent, 1894).
- Burdock, Belleraphon, "Reminiscences of a Retired Militia Officer," <u>New England Magazine</u> II (1832): 403-405, 479-483, III (1833)), 110-113.
- Chamberlain, Samuel E., <u>My Confession</u> (New York: Harper, 1956).
- Cooke, Philip St. George, <u>Scenes and Adventures in the Army:</u> or Romance of Military Life (Philadelphia: Lindsay & Blackiston, 1857).

- Custer, George Armstrong, <u>Custer in the Civil War His</u> <u>Unfinished Memoirs</u>, ed. by John M. Carroll (San Rafael: Presidio Press, 1977).
- Cutts, James Madison, <u>The Conquest of California and New</u> <u>Mexico by the Forces of the United States, in the Years</u> <u>1846 and 1847</u> (Philadelphia: Carey and Hart, 1847).
- Dallam, James B., "A Soldier's View of the Seminole War 1838-39," ed. by William D. Hoyt, Jr., <u>Florida Histori-</u> cal Quarterly XXV (April 1947), 356-362.
- "Documents-Captain Nathaniel Boone," (Journal), ed. by Walter B. Baylor, <u>American Historical Society</u> XXIV (January 1919); 253-265.
- DuPont, Henry, "West Point in the Fifties: the Letters of Henry A. DuPont," ed. by Stephen E. Ambrose, <u>Civil War</u> <u>History X</u> (September 1964), 291-308.
- Eccleston, Robert, <u>The Mariposa India War 1850-1851 Diaries</u> of Robert Eccleston, et. al., ed. by C. Gregory Crarryton (Salt Lake City: University of Utah Press, 1957).
- Edwards, Frank, <u>A Campaign in New Mexico with Colonel</u> Donipha (Ann Arbor: 1966).
- Forman, Sidney, compl., <u>Cadet Life Before the Mexican War</u> (West Point: The Library, United States Military Academy Printing Office, Bulletin no. 1, 1945).

Ferber, George C., Twelve Months Volunteer or, Journal of a

Private in the Tennessee Regiment of Cavalry, et. al. (Cincinnati: J.A. James, 1848).

General Scott and His Staff Comprising Memoirs of General Scott, Twiggs, South, Quitman, Shields, Pillow, Lane,

et. al. (Freeport: Books for Libraries Press, 1900).

- Gibson, George Rutledge, <u>Journal of a Soldier Under Kearny</u> <u>and Doniphan, 1846-1847</u> (Glendale: Arthur H. Clarke, 1935).
- Gilsan, R., <u>Journal of Army Life</u> (San Francisco: A.E. Bancroft, 1874).
- Grant, U.S., <u>Personal Memoirs</u> (2 vols.; New York: Charles L. Webster, 1885).
- Griffin, John S., "A Doctor Comes to California the Diary of John S. Griffin Assistant Surgeon with Kearny's Dragoons, 1846-1847," ed. by George Walcott Ames, Jr., <u>California Historical Society Quarterly</u> XXI (September, December 1942), 193-224, 333-357.
- Hamilton, General Charles S., "Memoirs of the Mexican War," <u>Wisconsin Magazine of History</u> XIV (September 1930), 63-92.
- Hamilton, Major-General Charles S., "Reminiscences of the Old Army Forty Years Ago," <u>Commandery of the State of</u> <u>Wisconsin, Military Order of the Loyal Legion of the</u> <u>United States War Papers</u> I (1891), 31-46.
- Hamilton, Henry S., <u>Reminiscences of a Veteran</u> (Concord: Republican Press, 1897).

- Harris, Rifleman, <u>Recollections of Rifleman Harris, as told</u> <u>to Henry W. Hing</u>, ed. by Christopher Herbert (Hamden: Archon Books, 1970).
- Hazen, General W.B., <u>A Narrative of Military Service</u> (Boston: Tucker, 1885).
- Heth, Henry, <u>Memoirs of Henry Heth</u>, ed. by James L. Morrison, Jr., (Westport: Greenwood, 1974).
- Hitchcock, Major-General Ethan Allen, <u>Fifty Years in Camp</u> and Field (New York: G.P. Putnam's 1909).
- (Hildreth, James), <u>Dragoon Campaigns to the Rocky Mountains</u> by a Dragoon (reprint; New York: Arno. 1973 (1836)).

Hood, John B., Advance and Retreat Personal Experiences in

the United States & Confederate States Armies (New York: Kraus, 1969).

- Howard, Oliver O., <u>My Life and Experiences Among our Hostile</u> <u>Indians</u>, et. al. (New York: Da Capo, 1972).
- Kelly, Plympton J., <u>We Were not Summer Soldiers; the Indian</u> <u>War Diary of Plympton J. Kelly 1855-1856</u>. ed. by William N. Bischoff (Tacoma: Washington State Historical Society, 1976).
- Kenly, John R., <u>Memoirs of a Maryland Volunteer War with</u> <u>Mexico in the Years 1846-7-8</u> (Philadelphia: J.B. Lippincott, 1873).
- Keyes, Brevet Brigadier-General E.D., <u>Fifty Years' Observa-</u> <u>tions of Men and Events Civil and Military</u> (New York: Charles Scribner's, 1884).

Lane, Henry S., "The Mexican War Journal of Henry S. Lane," ed. by Graham A. Barringer, <u>Indiana Magazine of History</u> LIII (December 1957), 383-434.

Larson, Sergeant James, <u>Sergeant Larson 4th Cavalry</u> (San Antonio: Southern Literary Institute, 1935).

Lowe, Percival, Five Years a Dragoon (New York: 1904).

- Lowe, Percival G., "Recollections of Fort Riley," <u>Kansas</u> Historical Collections VII (1901-1902), 101-113.
- Majors, Alexander, <u>Seventy Years on the Frontier</u> (reprint; Columbus: 1950 (1893)).
- Manigault, Arthur Middleton, <u>A Carolinian Goes to War</u>, et. al., (Columbia: University of South Carolina Press, 1983).
- Marcy, Randolph B., <u>Border Reminiscences</u> (New York: Harper, 1872).
- Marcy, Randolph B., <u>Thirty Years of Army Life on the Border</u> (New York: Harper, 1866).
- Maury, General Dabney Herdon, <u>Recollections of a Virginian</u> (New York: Charles Scribner, 1894).
- McCall, Major-General George A., <u>Letters from the Frontiers</u> (Gainesville: University Presses of Florida, 1974).

McClellan, Major-General George B., <u>McClellan's Own Story</u> <u>the War for the Union</u>, et. al. (New York: Charles Webster, 1887).

McCrea, Tully, Dear Belle Letters from a Cadet & Officer to

his Sweetheart, 1858-1865 (Middleton: Wesleyan University, 1965).

- Meek, A.B., "The Journal of A.B. Meek and the Second Seminole War, 1836," ed. by John K. Mahan, <u>Florida</u> <u>Historical Quarterly</u> XXXVIII (April 1960), 302-318.
- Meyers, Augustus, <u>Ten Years in the Ranks of the U.S. Army</u> (New York: Arno, 1979).
- Motte, Jacob Rhett, <u>Journey Into Wilderness an Army Sur-</u> <u>qeon's Account of Life in Camp and Field during the</u> <u>Creek and Seminole Wars 1836-1838</u>, ed. by James F. Sunderman (Gainesville: University of Florida, 1963).

Peck, Lieutenant John James, <u>The Sign of the Eagle a View of</u> Mexico -- 1830 to 1855 (San Diego: Copley, 1970).

- "Recollections of the Rifles," <u>Southern Literary Messenger</u> XXXIII (November 1861), 371-380.
- Reid, Samuel C., Jr., <u>The Scouting Expeditions of McCul-</u> <u>loch's Texas Rangers</u> et. al. (Philadelphia: John E. Potter, 1859).
- "Robert E. Lee to Albert Sydney Johnston 1857," ed. by Marilyn McAdams Sibley, <u>Journal of Southern History</u> XXXIX (February 1963), 100-107.
- Sanford, George B., <u>Fighting Rebels and Redskins Experiences</u> in Army Life of Colonel B. Sanford 1861-1892. ed. by

E.R. Hageman (Norman: University of Oklahoma, 1969). Schofield, Lieutenant General John M., <u>Forty-Six Years in</u> <u>the Army</u> (New York: Century, 1897).

- Scott, Lieutenant General Winfield, <u>Memoirs</u> (2 vols.; New York, Sheldon, 1864).
- Sherman, General William T., <u>Memoirs</u>, et. al. (Bloomington: Indiana University Press, 1957).
- Sheridan, General P.H., <u>Personal Memoirs</u> (2 vols.; New York: Charles L. Webster, 1888).
- Sillman, Auguste E., <u>A Gallop Among American Scenery or,</u> <u>Sketches of American Scenes and Military Adventure</u> (New York: D. Appleton, 1843).
- Smith, E. Kirby, <u>To Mexico with Scott, Letters of Captain E.</u> <u>Kirby Smith to his Wife</u> et. al. (Cambridge: Harvard University Press, 19177).
- Smith, Joseph, "Letters from the Second Seminole War," ed. by John K. Mahan, <u>Florida Historical Quarterly</u> XXXVI (April 1958), 331-352.
- <u>A Soldier of the Seventy-First, the Journal of a Soldier of</u> <u>the Highland Light Infantry 1806-1815</u> (London: Leo Cooper, 1975).
- Sprague, John T., "Macomb's Mission to the Seminoles: John T. Sprague's Journal Kept during April and May 1839," <u>Florida Historical Quarterly</u> XXV (October 1956), 130-193.
- Stanley, Major-General D.S., <u>Personal Memoirs</u> (Cambridge: Harvard University Press, 1917).
- Tallort, Theodore, <u>Soldier in the West Letters During his</u> Service in California and Oregon, <u>1845=53</u>, ed. by

Robert K. Hine and Savoie Lattimville (Norman: University of Oklahoma Press, 1972).

- Taylor, Zachary, "Zachary Taylor and the Black Hawk War," (Letters), ed. by Holman Hamilton, <u>Wisconsin Magazine</u> of History XXIV (March 1941), 305-315.
- Taylor, Zachary, "Zachary Taylor on Jackson and the Military Establishment, 1835", ed. by william B. Hoyt, Jr., <u>American Historical Review LI (April 1946), 480-484</u>.
- Viele, Theresa, <u>"Following the Drum" A Glimpse of Frontier</u> Life (New York: Rudd & Carleton, 1858).
- Wilson, James Harrison, <u>Under the Old Flaq</u>, et. al. (New York: D. Appleton, 1912).
- "With the First U.S. Cavalry in Indian Country, 1859-1861 Letters to <u>The Daily Times</u>, Leavenworth", ed. by Louise Barry, <u>Kansas Historical Quarterly</u> XXIV (1958), 257-284, 399-425.

Reporting: Military and Political

- Brackenridge, H.M., <u>History of the Late War Between the</u> <u>United States and Great Britain</u>, et. al. (Philadelphia: James Kay, 1845).
- Brackett, Albert G., <u>General Lane's Brigade in Central</u> <u>Mexico</u> (Cincinnati: H.W. Derby, 1854).
- "Campaign in the Crimea", <u>Quarterly Review</u> XLVI (March 1855), 200-260.

Cass, Lewis, "Indians of North America", <u>North American</u> Review new series XIII (January 1826), 53-119.

- Cohen, M.M., <u>Notices of Florida and the Campaigns</u> (Gainesville: University of Florida, 1964).
- "Condition of the Indians", <u>Niles' Weekly Register</u> XLVII (October 4, 1834): 76-77.
- Cooke, Philip St. George, <u>The Conquest of New Mexico and</u> <u>California</u> et. al. (reprint; Albuquerque: Horn and Wallace, 1964 (1878)).
- David, Citizen, <u>History of the Campaigns of General Dichegry</u> <u>Containing the Operations of the Armies of the North</u>, et. al. (London: G.G.J. and J. Robinson, 1796).
- (A Democrat), "A Critic Views Iowa's First Military Post,"
 ed. by Donald Jackson, <u>Iowa Journal of History</u> LX
 (January 1960), 31-36.
- "Desertions in the Army," <u>Niles' Weekly Register</u> XXXVIII (March 24, 1830), 68.
- Donner, John, "Scott's Battles in Mexico," <u>Harper's New</u> Monthly Magazine XI (1855), 311-324.
- "The Dragoons", <u>Niles' Weekly Register</u> XLVII (February 7, 1835), 403-404.
- "The Electric Telegraph", <u>Quarterly Review</u> XCV (June 1854), 118-164.
- (Eustis, Will), "Passports Through the Indian Country the Secretary of War to Silas Dunsmore", <u>Niles' Weekly</u> Register XXXIV (April 12, 1828), 110-113.

"Expedition of the Dragoons to the West", <u>Niles' Weekly</u> <u>Register</u> XLVII (October 4, 1834), 74-76.

- Flint, Timothy, <u>Indian Wars of the West</u>, et. al. (reprint; New York: 1971 (1831)).
- "From the Dragoons", <u>Niles' Weekly Register</u> XLIX (October 17, 1835), 106.
- Frost, John, <u>The War and its Warriors Comprising a Complete</u> <u>History of the Operations of the American Armies in</u> <u>Mexico</u>, et. al. (Philadelphia: Hogan & Thompson, 1848).
- "General Winfield Scott", <u>American Whig Review</u> XII (September 1850), 276-289.
- Head, T.B., "The Red Man", <u>Quarterly Review</u> LXV (March 1840), 384-419.
- (Hill, Daniel H.), "The Battle of Churubusco", <u>Southern</u> Quarterly <u>Review</u> XXII (1852), 78-116.
- (Hill, Daniel), "The Battle of Contreras", <u>Southern Quar-</u> terly Review XXI (1851), 373-426.
- "Indian Outrages", <u>Niles' Weekly Register</u> XXXV (November 29, 1828), 214.
- "The Indians of the United States Their Past, Their Present, and Their Future", <u>DeBow's Review</u> XVI (February 1854), 143-149.
- "The Italian Campaign of 1859", <u>Edinburgh Review</u> CX (October 1859), 454-494.

Kearny, Philip, "Service With the French Troops in Africa in

the Campaign of June 1840 - Expedition Against Mili-

anah", Magazine of History extra no. 22 (1913), 1-54.

- "Life of Blucher", <u>Quarterly Review</u> LXX (September 1842), 446-485.
- "Louis Napoleon and the French, <u>DeBow's Review</u> XVI (1854), 382-396.
- Mansfield, Edward, <u>The Life of General Winfield Scott</u> <u>Embracing his Campaign in Mexico</u> (New York: A.S. Barnes, 1848).
- "Miscellaneous", (report on the Leavenworth-Dodge Expedition), <u>Niles' Weekly Register</u> XLVII (September 20, 1834), 38.
- "Movement of Troops", <u>Niles' Weekly Register</u> XXXVI (May 16, 1829), 182.

"Our Army in Mexico", DeBow's Review II (1846), 426-430.

Paris, Comte de Orleans, Louis Philippe Albert, History of

the Civil War in America (3 vols.; Philadelphia: Jos. H. Coates: 1875).

- Potter, Woodburne, <u>The War in Florida</u> (reprint; Ann Arbor: University Microfilms, 1966 (1836)).
- "Removal of the Indians", <u>North American Review</u> XXX (1830), 62-121.
- "A Report of the Secretary of War of the U.S. on Indian Affairs, Comprising A Narrative of a Tour Performed in the Summer of 1826, Under a Commission from the

President of the U.S.", et. al., North American Review LVI (1823), 30-45.

- Rodenbaugh, Theo F., <u>From Everglade to Cannon With the</u> <u>Second Dragoons</u> (New York: D. Van Nostrand, 1875).
- St. Clair, Arthur, <u>A Narrative of the Manner in which the</u> <u>Campaign Against the Indians, in the Year 1791, was</u> <u>Conducted</u>, et. al. (reprint; New York: Arno Press, 1971 (1819)).
- Sprague, Brevet Captain John T., <u>The Origins, Progress, and</u> <u>Conclusion of the Florida War</u>, et. al. (reprint; Gainesville: University of Florida Press, 1964 (1848)).
- "United States Dragoons", <u>Niles' Weekly Register</u> XLVI (August 2, 1834), 389-390.

Periodicals.

Army and Navy Chronicle and Scientific Repository, 13 vols., 1835-1842.

Works on the Art and Science of War.

- "Academy at West Point", <u>American Quarterly Review</u> XVI (December 1834), 358-375.
- "The Armies of Europe", <u>Putnam's Monthly Magazine</u> VI (1855), 193-206, 306-317, 561-581.

Beauregard, Pierre G.T., Principles of Maxims of the Art of

War, et. al. (3rd ed.; New Orleans: Brande Gill, 1890).

- Bismark, Count von, <u>Lectures on the Tactics of Cavalry</u> (London: William H. Ainsworth, 1827).
- Bloch, Louis M., comp., <u>Overland to California in 1859: A</u> <u>Guide for Wagon Train Travelers</u> (Cleveland: Bloch, nd).
- Brett, Captain Wilford, <u>Hints on Bivouac & Camp Life</u>, et. al. (Halifax, Nova Scotia: Richard Nugent, 1855).
- Buckholtz, L.V., <u>Tactics for Officers of Infantry, Cavalry</u>,
- and Artillery (Richmond: J.W. Randolph, 1861). Butler, Benjamin F., <u>The Military Profession of the United</u>
 - States and the Means of Promoting Usefulness and Honor,

et. al. (New York: Samuel Brabazon).

Cadet Life at West Point (Boston: T.O.H.P. Burnham, 1862).

- Captain Luke, <u>Soldiers and Their Science</u> (London: John W. Parker, 1860).
- Clausewitz, General Cal von, <u>On War</u> (reprint; Princeton: Princeton University Press, 1976).
- Cooke, Philip St. George, "Our Cavalry", <u>United Service</u> I (July 1879), 329-345.
- Darrow, Pierce, <u>National Militia Standard Embracing the</u> <u>Discipline of Infantry, Light Infantry, Artillery,</u> <u>Horse Artillery, Cavalry</u>, et. al. (Hartford: O.D. Cooke, 1822).

Delafield, Colonel Richard, Report on the Art of War in

Europe, 1854, 1855, and 1856 (Washington, D.C.: George W. Bowman, 1861).

Denison, Colonel George T., <u>A History of Cavalry, from the</u> <u>Earliest Times with Lessons for the Future</u> (London: MacMillan, 1913).

- Denison, Lieutenant-Colonel George T., <u>Modern Cavalry: Its</u> <u>Organization, Armament and Employment in War</u>, et. al. (London: Thomas Dodsworth, 1868).
- DePeyster, John Watts, <u>Organization of the Militia</u> (n.p.: n.p.).
- Dodge, W.C., <u>Breech Loaders Versus Muzzle Loaders or, How to</u> <u>Strengthen our Army and Crush the Rebellion</u>, et. al. (Washington, D.C.: p.p., 1865).

Duane, William, <u>The American Military Library; or, Compen-</u> <u>dium of the Modern Tactics Embracing the Discipline,</u> <u>Manoeuvres, and Duties of Every Species of Troops</u>. et. al. (Philadelphia: p.p., 1809).

Duparcq, Captain Ed. BeLa Barbe, <u>Elements of Military Art</u> <u>and History</u>, et. al. (New York: D. van Nostrand, 1863).

("Fair Play"), "Notes on our Army Reply to 'A Subaltern'", Southern Literary Messenger X (April 1844), 509-510.

"Fortifications of Paris", <u>Quarterly Review</u> LXXVIII (1846), 769-797.

- Frederick the Great, <u>Instructions for his Generals</u> (Harrisburg: Military Service Publishing, 1944).
- Gay de Verron, Simon Francis, <u>A Treatise on the Science of</u> <u>War and Fortification</u>, et. al. (2 vols.; New York: J. Seymour, 1811).
- Graham, Lieutenant-Colonel J.J., <u>Elementary History of the</u> <u>Progress of the Art of War</u> (London: Richard Bentley, 1858).
- Graham, Colonel James J., <u>Military Ends and Moral Means</u> <u>Exemplifying the Higher Influence Affecting Military</u> <u>Life and Character</u>, et. al. (London: Smith, Elder, 1864).
- Halleck, H. Wagner, <u>Elements of Military Art and Science</u>, et. al. (New York: D. Appleton, 1861).
- Higginson, T.W., "Regular and Volunteer Officers", <u>Atlantic</u> <u>Monthly XIV</u> (September 1864), 348-357.
- Hoyt, E., <u>Practical Instruction for Military Officers</u>, et. al. (reprint; Westport: Greenwood, 1971 (1811)).
- Jackson, Robert, <u>A View of the Formation, Discipline and</u> Economy of Armies (London: p.p., 1804).
- Jebb, Sir Joshua, Practical Treatise on Strengthening and <u>Defending Outposts, Villages, Houses,Bridges, etc., in</u> <u>Reference to the Duties of Officers</u>, et. al. (London: Clowes, 1857).
- Jomini, Baron de, <u>The Art of War</u> Revised ed.; (Philadelphia: J.B. Lippincott, 1862).

- Jomini, Baron de, <u>Treatise on Grand Military Operations or a</u> <u>Critical and Military History of the Wars of Frederick</u> <u>the Great as Contrasted with the Modern Systems</u>, et. al (2 vols.; New York: D. Van Nostrand, 1865).
- Kingsbury, C.P., <u>An Elementary Treatise on Artillery and</u> <u>Infantry Adapted to the Service of the United States</u>, et. al. (New York: G.P. Putnam, (1856).
- Kirby, S.W. and Kennedy, J.R., <u>Tactical Schemes with</u> <u>Solutions Suitable for Promotion and Stf. Col. Entrance</u> <u>Examinations and for Practice in Applying Tactical</u> <u>Principles</u>, et. al. (London: Clowes, 1831).
- (a Late Captain of Infantry). <u>HInts Bearing on the United</u> <u>States Army with an Aim at the Adaptation, Availabil-</u> <u>ity, Efficiency and Economy There of</u> (Philadelphia: Henry B. Ashmead, 1858).
- Lendy, Captain Auguste Frederic, <u>Elements of Fortification:</u> <u>Field and Permanent</u>, et. al. (London: John W. Parker, 1857).
- Lendy, Captain Auguste F., <u>Maxims, Advice and Instructions</u> on the Art of War, et. al. (New York: D. Van Nostrand, 1862).
- Leslie, Chs., <u>A Treatise on the Employment of Light Troops</u> <u>on Actual Service</u>, et. al. (London: Clowes, 1843).
- MacDougall, Lieutenant-Colonel Patrick Leonard, <u>The Theory</u> <u>of War</u>, et. al. (London: Longman, Green, Longman and Roberts, 1862).

- MacDougall, Lieutenant-Colonel Patrick Leonard, <u>Modern</u> <u>Warfare as Influenced by Modern Artillery</u> (London: John Murray, 1864).
- Magrath, Lieutenant Richard Nicholson, <u>An Historical Sketch</u> of the Progress of the Art of War (Dublin: William Curry, 1838).
- Mahan, Dennis Hart, <u>An Elementary Treatise on Advanced-</u> <u>quard, Outpost</u>, and Detachment Service of Troops, and <u>the Manner of an Enemy</u>, et. al. (New York: J. Wiley, 1853).
- Mahan, Dennis Hart, <u>A Treatise on Field Fortifications</u>, et. al. (New York: John Wiley, 1861).
- Malthy, Isaac, <u>The Elements of War</u> (3rd ed.; Hartford: Peter B. Gleason, 1815).
- Mansfield, Edward, "The Military Academy at West Point", <u>American Journal of Education</u> new series XXX (March 1863), 17-48.
- Marshall, Henry, <u>Military Miscellany; Comprehending a</u> <u>History of the Recruiting of the Army, Military</u> Punishment, et. al. (London: J. Murphy, 1845).

Marcy, Captain Randolph, <u>A Handbook for Overland Expedi-</u> tions, et. al. (New York: Harper, 1859).

McClellan, George B., <u>The Armies of Europe Comprising</u> <u>Descriptions in Detail of the Military Systems of</u> <u>England, France, Russia, Prussia, Austria and Sardinia</u>, et. al. (Philadelphia: J.B. Lippincott, 1861).

- McClellan, George B., <u>European Cavalry</u> (Philadelphia: J.B. Lippincott, 1861).
- "Military Academy United States West Point, June, 1828", <u>Niles' Weekly Register</u> XXXIV (July 19, 1828), 341-343.
- "Military Education", <u>Quarterly Review</u> LXXXIII (September 1848), 419-450.
- "The Military Establishment of the United States", <u>Southern</u> Literary Messenger XVII (February 1851), 65-78.
- "Militia Reform", <u>New England Magazine</u> VII (July 1834), 51-59.
- Mitchell, Lieutenant-Colonel John, <u>Thoughts on Tactics and</u> <u>Military Organizations</u>, et. al. (London: Longmans, 1838).
- "Modern Tactics", <u>Southern Literary Messenger</u> XXVI (January 1858), 1-20.
- Mordecai, Major Alfred, <u>Military Commission to Europe in</u> <u>1855 and 1856 Report of Major Alfred Mordecai</u>, et. al. (Washington, D.C.: George W. Bowman, 1860).
- "Moral Discipline of the Army", <u>Quarterly Review</u> LXXVIC (September 1845), 387-424.
- Morton, First-Lieutenant John c., <u>Memoirs on American</u> <u>Fortification</u> (Washington, D.C.: William A. Harris, 1859).
- Napoleon, <u>Napoleon's Maxims of War the Officer's Manual</u> (New York: James C. Gregory, 1861).

- Neff, Jacob K., <u>The Army and Navy of America</u>, etc. (Philadelphia: J.H. Pearsol, 1845).
- Nolan, Captain L.E., <u>Cavalry: Its History and Tactics</u> (Columbia: Evans, 1864).
- (An Officer of High Standing in the U.S. Army), "National Defense", <u>Monthly Magazine</u> V (February 1855), 122-128.
- "Our Military Establishment", <u>Quarterly Review</u> LXXII (March 1848), 453-483.
- "Our Sea Coast Defense and Fortification System", <u>Putnam's</u> <u>Monthly Magazine</u> VI (March 1856), 314-325.
- Pope, Captain John, "Captain John Pope's Plan of 1853 for the Frontier Defense of New Mexico", ed. by Robert M. Utley, <u>Arizona and the West</u> V (Summer 1963), 149-163.
- "Report of the Secretary of War November 30th, 1839, Accompanying the President's Message to Congress, December 2d, 1839", <u>North American Review</u> VIII (July 1840), 158-172.
- "Reports of the Boards of Visitors of the Military Academy at West Point, in June 1830, and June, 1831", <u>North</u> American Review XXIV (1832), 246-261.
- "Rifled Firearms", <u>Eclectic Magazine of Foreign Literature</u>, <u>Science and Art</u> LIII (August 1861), 556-561.
- Robinson, Fayette, <u>An Account of the Organization of the</u> <u>Army of the United States with Biographies of Distin-</u> <u>quished Officers of all Grades</u> (2 vols.; Philadelphia: E.H. Butler, 1848).

Roemer, J., <u>Cavalry:</u> Its History, Management, and Uses in War (New York: D. van Nostrand, 1863).

Schalk, Emil, <u>Summary of the Art of War: Written Expressly</u> and Dedicated to the U.S. Volunteer Army (Philadelphia: J.B. Lippincott, 1862).

- Scheliha, Viktor Ernest Karl Rudolf von, <u>A Treatise on</u> <u>Coastal Defense</u> (London: E. and F.N. Spon, 1868).
- Schon, J., <u>Rifled Infantry Arms: A Brief Description of the</u> <u>Modern System of Small Arms</u> (2nd ed., Washington, D.C.: George W. Bowman, 1855).
- Scott, Colonel H.L., <u>Military Dictionary</u>, et. al. (New York: D. van Nostrand, 1864).
- Smith, Major-General Michael W., <u>A Treatise on Drill and</u> <u>Manoeuvres of Cavalry Combined With Horse Artillery</u> (London: Longman, Roberts, & Green, 1865).
- Straith, Hector, <u>Treatise on Fortification and Artillery</u>, rev. by Thomas Cook and John T. Hyde (London: William H. Allen, 1858).
- (A Subaltern), "Notes on the Army", Southern Literary Messenger X (1844), 86-87, 155-157, 246-251, 283-287, 372-387.
- Summer, William H., <u>An Inquiry Into the Importance of the</u> <u>Militia to a Free Commonwealth</u> (Boston: Cummings and Hillard, 1823).
- Szaband, Captain Emeric, <u>Modern War:</u> Its Theory and Practice (New York: Harper, 1863).

- Thackery, Captain Thomas Jones, <u>The Military Organization</u> <u>and Administration of France</u> (2 vols.; London: Thomas Coutley Newby, 1856).
- "United States Military Academy", <u>Southern Literary Messen-</u> ger IX (1843), 665-670.
- Vattel, E. de, <u>The Laws of Nations</u>, or the Principles of <u>Natural Law</u> (3 vols.; Washington, D.C.: 1916 (1758)).
- Vauban, Sebastien Le Prestrede, <u>A Manual of Sieqecraft and</u> <u>Fortification</u> (reprint; Ann Arbor: University of Michigan Press, 1968 (1748)).
- Viele, Captain Egbert, <u>Handbook for Active Service</u>, et. al. (New York: Greenwood, 1861).
- "West Point Academy", (Report of the Board of Visitors) Niles' Weekly Register XXXVI (July 4, 1829), 311-312.
- "West Point and Cadet Life", Putnam's Monthly Magazine IV

(August 1854), 192-204.

- Wilcox, Captain C.M., <u>Rifles and Rifle Practice: An</u> <u>Elementary Treatise Upon the Theory of Rifle Firing</u>, et. al. (New York: D. van Nostrand, 1859).
- Wilkinson, Henry, <u>Engines of War: or, Historical and</u> <u>Experimental Observations on Recent and Modern Warlike</u> <u>Machines</u>, et. al. (London: Longman, Anne, Brown, Green and Longmans, 1841).
- Wolfe, James, <u>Instructions to Young Officers</u>, et.al. (Ontario: Museum Restoration Services, 1967 (1780)).

Anderson, Robert, Evolution of Field Batteries of Artillery,

et. al. (New York: D. van Nostrand, 1860). Arentsschildt, Lieutenant-colonel Fredrich von, <u>Instructions</u>

for Officers and Non-Commissioned Officers of Cavalry

on Outpost Duty (Richmond: J.W. Randolph, 1861).

Berriman, Captain N.W., <u>The Militiaman's Manual and Sword-</u> Play, et. al. (New York: D. van Nostrand, 1864).

Board of Artillery Officers, <u>Instructions for Field Artil-</u> <u>lery</u>, et. al. (Washington, D.C.: Government Printing

Office, 1864). Casey, Silas, <u>Infantry Tactics for the Instruction, Exercise</u>

- and Manoeuvre of the Soldier, et. al. (3 vols.; New York: D. van Nostrand, 1862).
- Cooke, Philip St. George, <u>Cavalry Tactics or Regulations for</u> <u>the Instructions, Formations, and Movements of the</u> <u>Cavalry of the Army and Volunteers of the United States</u> (Washington, D.C.: U.S. Government Printing Office, 1862).

Cooper, Samuel, Cooper's Cavalry Tactics for the use of Volunteers, et. al, (New Orleans: H.P. Lathrop, 1861). Curry, John P., Volunteers' Compound and Field Book, et. al. (Richmond: West & Johnson, 1862).

Davis, Colonel J. Lucus, The Trooper's Manual or, Tactics

for Light Dragoons and Mounted Riflemen (Richmond: A. Morris, 1861).

- Dunn, Major M.I., <u>A Military Pocket Manual for Militia</u> <u>Officers</u> (Cincinnati: p.p., 1831).
- <u>General Regulations for the Military Forces of the State of</u> <u>New York</u> (Albany: Constances & Cassidy, 1863).
- Gibbon, Brigadier-General John, <u>The Artillerist's Manual</u>, et. al. (Revised ed.; New York: D. van Nostrand, 1863).
- Gilham, Major William, <u>A Manual of Instruction for the</u> <u>Volunteers of the United States</u> (Philadelphia: Charles Descher, 1861).
- Hardee, Brevet Lieutenant-Colonel W.J., <u>Rifle and Light</u> <u>Infantry Tactics</u> et. al. (2 vols.; Philadelphia: 1855).
- Hewes, Robert, <u>Rules and Regulations for the Sword Exercise</u> of the Cavalry, et. al. (2d ed.; Boston: William Norman, 1802).
- LeLouterel, General, <u>Manual of Military Reconnaissances</u>, <u>Temporary Fortifications and Partisan Warfare</u>, et. al. (Atlanta: J. McPherson, 1862).
- Light Infantry Manual of Arms, Adapted to the Rifle Musket et. al. (New York: Chatterson & Parker, 1861).
- Maury, D.H., <u>Skirmish Drill for Mounted Troops</u> (Richmond: J.W. Randolph, 1861).

- McClellan, Major-General George B., <u>Regulations for the</u> <u>Service of Cavalry in Time of War</u> (Philadelphia: J.B. Lippincott, 1863).
- The Ordnance Manual for the Use of the Officers of the United Stats Army (Philadelphia: J.B. Lippincott, 1862).
- Patten, George, <u>Cavalry Drill and Saber Exercise</u>, et. al. (Richmond: West & Johnston, 1862).
- Patten, George, <u>Patten's Artillery Containing the School of</u> <u>the Piece and Battery Manoeuvres</u>, et. al. (New York: J.W. Fortune, 1863).
- Richardson, Colonel JNO. H., <u>Infantry Tactics or, Rules for</u> the Exercise and Manoeuvres of the Confederate States

<u>Infantry</u>, et. al. (Richmond: West & Johnston, 1862). Scott, Major-General Winfield, <u>Infantry Tactics</u>, or, <u>Rules</u>

for the Exercise and Manoeuvres of the United States

Infantry (3 vols.; New York: Harper, 1854).

- Swan, Colonel James B., <u>Rules, Regulations, Forms and</u> <u>Suggestions for the Instruction and Guidance of the</u> <u>U.S. Cavalry (New York: Baker & Goodwin, 1863).</u>
- The System of Discipline and Manoeuvres of Infantry, et. al. (Philadelphia: p.p., 1807).
- United States Inspector-General's Office, <u>Regulations for</u> <u>the Order and Disciplines of the Troops of the United</u> <u>States</u> (Baron de Steuben), et. al. (12th ed.; Bennington: 1794).

United States Ordnance Department, Artillery for the Land

<u>Service</u> (Washington, D.C.: J. and G.S. Gideon, 1849). United States War Department, Cavalry Tactics (3 vols.;

Washington, D.C.: J. and G.S. Gideon, 1841).

United States War Department, <u>Cavalry Tactics School of the</u> Trooper of the Platoon, and the Squadron (3 vols.;

Philadelphia: J.B. Lippincott: 1861).

United States War Department, <u>Cavalry Tactics First and</u> <u>Second Parts, School of the Trooper</u>, et. al. (Washing-

ton, D.C.: Government Printing Office, 1863).

United States War Department, <u>General Regulations for the</u> <u>Army, or Military Institutes</u> (Philadelphia: 1821).

United States War Department, <u>General Regulations for the</u> Army (Washington, D.C.: 1834).

United States War Department, <u>Regulations for the Army of</u>

the United States 1861 (New York: Harper, 1861).

United States War Department, Regulations for the U.S.

Military Academy, et. al. (New York: John F. Trow, 1857).

United States War Department, <u>Rules and Regulations for the</u> <u>Field Exercise and Manoeuvres of Infantry</u>, et. al. (New York: William A. Mercein, 1818).

United States War Department, <u>A System of Target Practice</u> for the Use of Troops When Armed With the Musket, et. al. (2 vols.; Philadelphia: J.B. Lippincott, 1861). Wheeler, Major-General Joseph, <u>A Revised System of Cavalry</u>

Tactics, et. al. (Mobile: S.H. Goetzel, 1863).

Wizard, Norman, <u>Wizard's System of Field Artillery</u>, et. al. (New York: 1863).

Secondary Sources:

Articles.

- Agnew, Brad, "The Dodge-Leavenworth Expedition of 1834", Chronicles of Oklahoma LII (Fall 1975), 376-396.
- Agnew, Brad, "The 1858 War Against the Comanches", <u>Chroni-</u> <u>cles of Oklahoma</u> XLVII (Summer 1971), 211-229.
- Allen, George, "The Life of Jomini", <u>United State Service</u> Magazine II (October 1864), 351-364.
- Ambrose, Stephen E., "A Theorist Fights: Emory Upton in the Civil War", <u>Civil War History</u> IX (December 1963), 341-364.
- Ansell, Major S.T., "Legal and Historical Aspects of the Militia", <u>Yale Law Journal</u> XXVI (April 1917), 470-480. Athearn, Robert G., "The Fort Buford Massacre", <u>Mississippi</u>
 - Valley Historical Review XLI (March 1955), 675-684.
- Arthur George, "The Soldier as Student", <u>Fortnightly Review</u> LXXXII (1907), 621-629.
- Ballenger, T.L., "Colonel Albert Sidney Johnston's March through Indian Territory to 1855", <u>Chronicles of</u> <u>Oklahoma</u> XLVII (Summer 1969), 132-137.

- Barry, Louise, "The Fort Leavenworth-Fort Gibson Military Road and the Founding of Fort Scott", <u>Kansas Historical</u> <u>Quarterly</u> XI (1942), 115-129.
- Bauer, Jack, "The Vercruz Expedition of 1847", <u>Military</u> Affairs XX (1956), 162-169.
- Bell, Henry, "Cavalry Raids and the Lessons they Teach Us", Journal of the U.S. Cavalry Association XIX (1908-1909), 142-152.
- Beers, Henry Putney, "The Army and the Oregon Trail to 1846", <u>Pacific Northwest Quarterly</u> XXVIII (1937), 339-362.
- Beers, Henry Putney, "Military Protection of the Santa Fe Trail to 1843", <u>New Mexico Historical Review</u> XII (April 1937), 113-133.
- Bender, A.B., "Frontier Defense in the Territory of New Mexico", <u>New Mexico Historical Review</u> IX (October 1934), 345-373.
- Bender, A.B., "Government Exploration in the Territory of New Mexico 1846-1859", <u>New Mexico Historical Review</u> IX (January 1934), 1-32.
- Bender, A.B., "The Soldier in the Far West 1848-1860", Pacific Historical Review VIII (1939), 159-178.
- Bien, David", The Army in the French Enlightenment", <u>Past &</u> Present no. 85 (November 1979), 68-98.

Bittle, George C., "First Campaign of the Second Seminole

War", <u>Florida Historical Quarterly</u> XLVI (July 1967), 39-45.

- Bittle, George C., "Florida Frontier Incidents during the 1850's", <u>Florida Historical Quarterly</u> XLIX (October 1970), 153-160.
- Blackburn, Colonel Forrest R., "The Army in Western Exploration", Military Review LI (September 1971), 75-90.
- Blackburn, Colonel Forrest, "Fort Leavenworth: Logistical Base for the West", <u>Military Review</u> LIII (December 1973), 3-12.
- Bloom John P., "New Mexico View by Anglo-Americans, 1846-1849", <u>New Mexico Historical Review</u> XXXIV (1959), 165-198.
- Bond, Brian, "Doctrine and Training in the British Cavalry 1870-1914", in Howard, Michael, ed., <u>The Theory and</u> <u>Practice of War</u> (Bloomington: Indiana University Press, 1975), 97-125.
- Boney, F.N., "The Military Tradition in the South", <u>Midwest</u> <u>Quarterly</u> XXII (Winter 1980), 163-174.
- Brett-James, Antony, "War and Logistics 1861-1918", <u>History</u> <u>Today</u> XIV (September 1964), 597-607.
- Broadhead, G.C., "The Santa Fe Trail", <u>Mississippi Valley</u> Historical Review IV (July 1910), 311-319.
- Brodie, Bernard, "On Clausewitz: A Passion for War", <u>World</u> <u>Politics</u> XXV (January 1973), 288-308.

- Brown, Alan S., "The Role of the Army in Western Settlement Josiah Harmer's Command, 1785-1790", <u>Pennsylvania</u> <u>Magazine of History and Biography</u> XCIII (April 1969), 161-178.
- Brown, M.L., "Notes on U.S.Arsenals, Depots, and Martial Firearms of the Second Seminole War", <u>Florida Histori</u> cal Quarterly LXI (April 1983), 445-458.
- Bulery, R.C., "Indiana in the Mexican War", <u>Indiana Magazine</u> of <u>History</u> XV (September, December 1919), 260-292, 293-326, XVI (March 1920), 416-468.
- Caldwell, Norman, "The Frontier Army Officer, 1794-1814", <u>Mid-America</u> XXXXVI (1955), 101-128.
- Campbell, E.G., "Railroads in National Defense, 1829-1848", <u>Mississippi Valley Historical Review</u> XXVII (December 1940), 361-378.
- Carleton, William G., "Raising Armies Before the Civil War", in Morten Anderson and Barbara Honeggar, ed., <u>The</u> <u>Military Draft Selected Readings on Conscription</u> (Stanford: Hoover Institution Press, 1982), 67-78.
- Carrington, General Henry Beebee, "Winfield Scott's Visit to Columbus", <u>Ohio Archaeological and Historical Quarterly</u> XIX (July 1910), 279-292.
- Casey, Powell A., "Military Roads in the Florida Parishes of Louisiana", <u>Louisiana History</u> XV (Summer 1974), 229-242.

- Castel, Albert, "Winfield Scott", <u>American History Illus-</u> <u>trated XVI (June, July 1981), 10-17, 26-29.</u>
- Chesney, Lieutenant-Colonel C.C., "The Advance of Science in Military Operations", <u>Macmillan's Magazine</u> XXVI (May 1872), 8-24.
- Chaput, Donald, "Babes in Arms", <u>Journal of Arizona History</u> XIII (Autumn 1972), 197-204.
- Christy, Howard A., "The Walker War: Defense and Conciliation as Strategy", <u>Utah Historical Quarterly</u> XLVII (Fall 1979), 395-420.
- Cimmay, William E., "The Story of Fort Larned", <u>Kansas</u> <u>Historical Quarterly</u> XXIII (Autumn 1957), 257-280.
- Clark, Robert Carlton, "Military History of Oregon 1849-59", Oregon Historical Quarterly XXXVI (May 1935), 14-59.
- Clark, Don Elbert, "Frontier Defense in Iowa, 1850-1865",

Oregon Historical Quarterly XXXVI (May 1935), 14-59.

- Clark, Don Elbert, "Frontier Defense in Iowa,1850-1865", <u>Iowa Journal of History and Politics</u> XVI (July 1918), 315-386.
- Clarke, Dwight, "Soldiers Under Stephen Watts Kearny", <u>California Historical Society Quarterly</u> XLV (1966), 133-148.
- Cohen, Eliot A., "Guessing Game: A Reappraisal of Systems Analysis", in Huntington, Samuel P., ed., <u>The Strategic</u> <u>Imperative New Policies for American Security</u> (Cambridge: Ballinger, 1982), 163-191.

- Colgrove, Kenneth W., "The Attitude of Congress toward the Pioneers of the West, 1820-1850: I. Relations between the Pioneers and the Indians," <u>Iowa Journal of History</u> and Politics IX (March 1911), 196-302.
- Collins, Lieutenant-Colonel Edward M., "Clausewitz and Democracy's Small Wars", <u>Military Affairs</u> XIX (Spring 1955), 15-20.
- Conger, A.L., "The Function of Military History", <u>Missis-</u> <u>sippi Valley Historical Review</u> III (September 1916), 161-171.
- Connolly, Major-General Donald H., "What and Why is a General Staff?" <u>Military Engineer</u> XII (May-June 1921), 222-229.
- Coulter, Richard, "Westmoreland Guards in the War with Mexico, 1846-1848", <u>Western Pennsylvania Historical</u> <u>Magazine</u> XXIV (1941), 101-126.
- Covington, James W., "Life at Fort Brooke, 1824-1836." <u>Florida Historical Quarterly</u> XXXXVI (April 1958), 319-330.
- Cowley, W.H., "European Influence upon American Higher Eduction", <u>Educational Record</u> XX (April 1939), 165-190.
- Crackel, Theodore J., "Jefferson Policy and the Army; an Examination of the Military Peace Establishment Act of 1802", Journal of the Early Republic II (1982), 22-38.

Craig, Gordon A., Brinton, Crane and Gilbert, Felix, "Jomini" in Earle, Edward Meade, ed., <u>Makers of Modern</u> <u>Strategy Military Thought from Machiavelli to Hitler</u> (Princeton: Princeton-University Press, 1944).

Crosbie-Western, R., "The Crimean War", in Lawford, James, ed., The Cavalry (Berkshire: Sampson Low, 1976).

- Cress, Lawrence Delbert, "Radical Whiggery on the Role of the Military: Ideological Roots of the American Revolutionary Militia", <u>Journal of the History of Ideas</u> XL (January-March 1979), 43-60.
- Cunliffe, Marcus, "The American Military Tradition", in Allen, H.C., ed., <u>British Essays in American History</u> (reprint; Sussex: Bookprint, 1969 (1957)), 207-224.
- Cuverille,Cavelier de, "The Progress in Naval Artillery from 1855 to 1880", <u>Ordnance Notes</u> no. 203 (June 19, 1882), 1-24.
- Davis, Carl L. and Fischer, LeRoy H., "Dragoon Life in Indian Territory 1833-1846", <u>Chronicles of Oklahoma</u> XLVIII (Spring 1970), 2-24.
- Davis, Major George B., "General Henry Leavenworth", <u>Journal</u> of the United States Cavalry Association VIII (December 1895), 261-267.
- Davis, Kenneth, "The Cherokee Removal, 1835-1838", <u>Tennessee</u> <u>Historical Quarterly</u> XXXII (Winter 1973), 311-331.

"Defending Puget Sound against the Northern Indians",

Pacific Northwest Quarterly XXXVI (January 1945), 69-78.

- Dillon, Lester R., "American Artillery in the Mexican War 1846-1847", <u>Military History of Texas and the Southwest</u> II (1973), 7-29, 109-127, 149-172, 233-240.
- Dowling, R.L., "Infantry Weapons of the Mexican War", Antiques XXXVIII (November 1940), 228-230.
- Downey, Fairfax, "Field and Siege Pieces", <u>Civil War History</u> II (1956), 65-74.
- Dunlay, Thomas W., "Indian Allies in the Armies of the New Spain and the United States A Comparative Study", <u>New</u> <u>Mexico Historical Review</u> LVI (July 1981), 239-258.
- Ellis, Richard N., "Volunteer Soldiers in the West, 1865", Military Affairs XXXIV (April 1970), 53-56.
- Fann, Willard R., "On the Infantryman's Age in Eighteenth Century Prussia", <u>Military Affairs</u> XLI (December 1977), 165-170.
- Feld, M.D., "Middle-Class Society and the Rise of Military Professionalism: the Dutch Army, 1589-1609", <u>Armed</u> Forces and Society I (August 1975), 419-442.
- Fensten, Joseph J., "Indian Removal", <u>Chronicles of Oklahoma</u> XI (December 1933), 1073-1083.
- Forman, Sidney, "The United States Military Philosophical Society, 1802-1813", <u>William and Mary Quarterly</u> 2nd series II (January 1945), 273-285.

- Forman, Sidney, "Why the United States Military Academy was Established in 1802", <u>Military Affairs</u> XXIX (Spring 1965), 16-28.
- Freedom, Gary S., "Military Forts and Logistical Self-Sufficiency on the Northern Great Plains 1866-1891", North Dakota History L (Spring 1983), 4-11.
- Fuller, J.F.C., "The Place of the American Civil War in the Evolution of War", <u>Army Quarterly</u> XXVI (1933), 316-325.
- Gagan, David P., "A Prophet Without Honor: George Taylor Denison III, Cavalry Historian", <u>Virginia Magazine</u> of History and Biography LVI (July 1948), 267-279.
- Gallagher, Ruth A., "The Military-Indian Frontier 1830-1835", <u>Iowa Journal of History and Politics</u> XV (July 1917), 393-428.
- Gardner, Hamilton, "Captain Philip St. George Cooke and the March of the 1st Dragoons to the Rocky Mountains in 1845", <u>Colorado Magazine</u> XXX (October 1953), 245-269.
- Gardner, Hamilton, "Philip St. George Cooke and the Apache, 1854", <u>New Mexico Historical Review</u> XXVIII (April 1953), 115-132.
- Gardner, Hamilton, "Romance at Old Containment Leavenworth the Marriage of 2d Lt. Philip St. George Cooke in 1830", <u>Kansas Historical Quarterly</u> XXII (Summer 1956), 97-113.

- Gillet, Mary C., "Thomas Lawson, Second Surgeon General of the U.S. Army: A Character Sketch", <u>Proloque</u> XIV (Spring 1982), 15-24.
- Godfrey, Brevet-Major E.S., "Cavalry Fire Discipline", <u>By</u> <u>Valor and Arms</u> II (1976), 31-36.
- Goldman, Henry H., "A Survey of Federal Escorts of the Santa Fe Trade 1829-1843", <u>Journal of the West</u> V (October 1966), 504-516.
- Goodpasture, Albert, "Indian Wars and Warriors of the Old Southwest 1730-1807", <u>Tennessee Historical Magazine</u> IV (March 1918), 3-49; (June 1918), 106-145; (September 1918), 161-210; (December 1918), 385-424.
- Graebner, Norman A., "Lessons of the Mexican War", <u>Pacific</u> Historical <u>Review</u> XLVII (August 1978), 325-342.
- Graham, Stanley, "Routine at Western Cavalry Posts, 1833-1861", Journal of the West XV (July 1976), 49-59.
- Greene, J. Evarts, "The Santa Fe Trade: Its Route and Character", <u>Journal of the U.S. Cavalry Association</u> X (September 1897), 264-277.
- Gregg, Kate L., "Building of the First American Fort West of the Mississippi", <u>Missouri Historical Review</u> XXX (July 1936), 345-364.
- Hafen, LeRoy R., "The Fort Pueblo Massacre and the Punitive Expedition against the Utes", <u>Colorado Magazine</u> IV (March 1927), 49-58.

Hagan, William T., "The Dodge-Henry Controversy", Journal of

the Illinois State Historical Society L (Winter 1957), 377-384.

Hagan, William T., "General Henry ATkinson and the Militia", Military Affairs XXIII (Winter 1959-1960), 194-197.

Hagerman, Edward, "From Jomini to Dennis Hart Mahan the the

Evolution of French Warfare and the American Civil War", <u>Civil War History</u> XIII (September 1967), 197-220.

- Hagerman, Edward, "The Professionalization of George B. McClellan and early Field Command: an Institutional Perspective", <u>Civil War History</u> XXII (June 1975), 113-135.
- Hagerman, Edward, "The Tactical Thought of R.E. Lee and the Origins of Trench Warfare in the American Civil War, 1861-1862", Historian XXXVIII (November 1975), 21-38.

Harris, Captain Moses, "The Union Cavalry", <u>Journal of the</u> U.S. Cavalry Association V (March 1892), 3-26.

- Harsh, Joseph L., "Broadsword and Rapier: Clausewitz, Jomini and the American Civil War", <u>Military Affairs</u> XXXVIII (December 1970), 127-131.
- Hattaway, Herman and Jones, Archer, "Lincoln as Military Strategist", <u>Civil War History</u> XXVI (December 1980), 293-303.
- Headrick, Daniel R., "The Tools of Imperialism: Technology and the Expansion of European Colonial Empires in the

Nineteenth Century", <u>Journal of Modern History</u> LI (June 1979), 231-263.

- Heyman, Max L., "On the Navaho Trail: the Campaign 1860-61", <u>New Mexico Historical Review</u> XXVI (January 1951), 44-63.
- Hickey, Donald R., "Federalist Defense Policy in the Age of Jefferson 1801-1812", <u>Military Review</u> XLV (April 1981), 63-70.
- Holabird, Brevet Brigadier-General S.B., "Army Wagon Transport", <u>Ordnance Notes</u> no. 169 (April 15, 1882), 1-30.
- Holden, W.C., "Frontier Defense 1846-1860", <u>West Texas</u> Historical Association Year Book VI (1930), 39-71.
- Holborn, Hajo, "Moltke's Strategical Concepts", <u>Military</u> Affairs VI (1942), 153-168.
- Holmes, Joseph, "The Decline of the Pennsylvania Militia 1815-1870", <u>Western Pennsylvania Historical Magazine</u> VII (April 1924), 199-217.
- Holyroyd, Richard, "The Bourbon Army 1815-1830", <u>Historical</u> Journal (Cambridge) XIV (September), 529-552.
- Hopkins, Richard C., "Kit Carson and the Navajo Expedition", <u>Montana the Magazine of Western History</u> XVIII (April 1968), 52-61.
- HOuston, Donald E., "The Role of Artillery in the Mexican War", Journal of the West XI (April 1972), 273-284.

- Howard, Michael, "The Forgotten Dimensions of Strategy", Foreign Affairs LVII (Summer 1979), 975-986.
- Hughes, Willis B., "The First Dragoons on the Western Frontier, 1834-1846", <u>Arizona and the West</u> XII (Summer 1970), 115-138.
- Hunter, Leslie Gene, "The Mojave Expedition of 1858-59", Arizona and the West XXI (Summer 1979), 137-156.
- Huntington, Samuel P., "Equilibrium and Disequilibrium in American Military Policy", <u>Political Science Quarterly</u> LXXVI (December 1961), 481-502.
- Hutton, Major E.T.H., "Mounted Infantry Its Present and Its Future", Journal of the Military Service Institution of the United States X (1889), 340-356.
- Huxford, Gary, "Origins of the American Military Tradition Reconsidered", <u>Rocky Mountain Social Science Journal</u> VIII (October 1971), 119-125.
- Hyolt, A.M., "The Origins of Napoleonic Warfare: A Survey of Interpretations", <u>Military Affairs</u> XXX (Winter 1966-1967), 177-185.
- Irvine, Dallas D., "The French and Prussian Staff Systems
 Before 1870", <u>Military Affairs</u> II (Winter of 1938),
 192-203.
- Irvine, Dallas D., "The Origins of Capital Staffs", <u>Journal</u> of Modern History X (June 1938), 161-179.

Jack, Theodore H., "Alabama and the Federal Government: The

Creek Indian Controversy", <u>Mississippi Valley Histori-</u> <u>cal Review</u> III (December 1916), 301-317.

- Jackson, W. Turrentine, "The Army Engineers as Road Builders in Territorial Iowa", <u>Iowa Journal of History</u> XLVII (January 1949), 15-33.
- Jessup, John E., "Problems of Selecting a Standard Weapon for the Army: the Breechloader Issue", in <u>United</u> <u>States Commission on Military History, Colloquium on</u> <u>Military History Proceedings (Chicago: 1979), 5-20.</u>
- Johnson, Sally A., "The Sixth's Elysian Fields Fort Atkinson on the Council Bluffs", <u>Nebraska History</u> XL (March 1959), 1-38.
- Johnston, R.M., "The Geometrical Factor in Napoleon's Generalship", <u>Papers of the Military Historical Society</u> <u>of Massachusetts</u> XIV (1918), 423-433.
- Jones, Archer, "Jomini and the Strategy of the American Civil War A Reinterpretation", <u>Military Affairs</u> XXXIV (December 1970), 127-131.
- Jones, Archer, "The United States Army at the Little Big Horn", North Dakota History XLII (Spring 1975), 22-27.
- Karnes, Thomas C., "Gilpins' Volunteers on the Santa Fe Trail", <u>Kansas Historical Quarterly</u> XXX (Spring 1964), 1-14.
- Kearny, Thomas, "Philip Kearny Soldier of America Soldier of France", <u>American Society of the Legion of Honor</u>

<u>Magazine</u> (Legion D'Hommer) VII (October 1936), 115-123.

- Kerby, Robert L., "The Militia System and the State Militias in the War of 1812." <u>Indiana Magazine of History</u> LXXIII (June 1977), 102-124.
- Kimball, Jeffrey, "The Battle of Chippewa: Infantry Tactics in the War of 1812", <u>Military Affairs</u> XXXI (Winter 1967-1968), 169-186.
- Koester, Susan, "The Indian Threat Along the Santa Fe Trail", <u>Pacific Historian</u> XVII (Winter 1973), 13-29.
- Kopp, April, "Camel Corps, USA", <u>American History Illus-</u> <u>trated</u> XVI (December 1981), 8-17.
- Kovacs, Arpod, "French Military Institutions before the Franco-Prussian War", <u>American Historical Review</u> LI (January 1946), 217-235.
- Kraft, Zu Hohen-Lohe-Ingelfingen, Prince, "Fighting on Foot of the Cavalry", Journal of the U.S. Cavalry Association IV (December 1891), 413-418.
- Kraft, Zu Hohen-Lohe-Ingelfingen, Prince, "Lessening the Field of Cavalry Work in Battle through the Improvement in Firearms", <u>Journal of the U.S.Cavalry Association</u> II (March 1889), 66-73.
- "The Lance", <u>Journal of the U.S. Cavalry Association</u> III (June 1890), 210-216.

Lane, Brevet Lieutenant-Colonel William B., "Our Cavalry in

Mexico", <u>United Service</u> VI (July-December 1891), 429-450.

- Lane, Brevet Lieutenant-Colonel William B., "The Regiment of Mounted Riflemen, or, from Puebla to the City of Mexico", <u>United Service XIV</u> (July-December), 301-313.
- Lane, Brevet Lieutenant-Colonel William B., "The U.S. Cavalry in the Mexican War", <u>Journal of the U.S.</u> <u>Cavalry Association</u> III (December 1890), 388-408.
- Lane, Brevet Lieutenant-Colonel William B., "What OUr Cavalry in Mexico Did and Did Not Do", <u>Journal of the</u> <u>U.S. Cavalry Association</u> XV (1896), 482-503.
- Liddell Hart, B.H., "Armed Forces and the Art of War: Armies", in Bury, J.P.T., <u>The New Cambridge Modern</u> <u>History</u> X (15 vols.; Cambridge, U.K.: Cambridge University Press, 1960), X, 302-330.
- Lumley, Captain J.R., "Mounted Riflemen", <u>Ordnance Notes</u> no. 169 (November 2, 1881), 1-14.
- Lunt, James, "Napoleon's Cavalry", <u>History Today</u> V (November 1960), 747-759.
- Luvass, Jay, "Cavalry Lessons of the Civil War", <u>Civil War</u> <u>History Illustrated</u> IX (January 1974), 20-31.
- Luvass, Jay, "Military History: Is It Still Practicable?: <u>Parameters</u> XIV (May 1982), 2-14.
- Lynn, John N., "Self Image and Weaponry: The French Fascination with the Pike, 1724-1794", in <u>Colloquium on</u> <u>Military History</u>, 21-40.

- "Machine Guns: Their Status in Warfare", Ordnance Notes no. 173 (January 10, 1882), 1-21.
- Mahan, John K., "Anglo-American Methods of Indian Warfare, 1676-1794", <u>Mississippi Valley Historical Review</u> XLV (September 1958), 254-275.
- Mahan, John K., "Civil War Infantry Assault Tactics", Military Affairs XXVI (Summer 1961), 57-68.
- Maitland, Colonel, "On the Metallurgical Manufacturing of Modern British Ordnance", <u>Ordnance Notes</u> no. 195 (May 23, 1882), 1-48.
- Manning, William R., "Diplomacy Concerning the Santa Fe Road", <u>Mississippi Valley Historical Review</u> I (March 1915), 516-531.
- Marvin, Garfield, "Defense of the Kansas Frontier 1858-1860", <u>Kansas Historical Quarterly</u> I (November), 451-473.
- Mathews, Jay A., "The Second U.S. Cavalry in Texas, 1855-1861", <u>Military History of Texas and the Southwest</u> IV (1973), 229-231.
- Mattison, Roy H., "The Military Frontier on the Upper Missouri", <u>Nebraska History</u> XXXVII (1956), 159-182.
- Maude, Lieutenant-Colonel F.N., "Military Training and Modern Weapons", <u>Contemporary Review</u> LXXVII (190), 305-322.

- May, Robert E., "Dixie's Martial Image: A Continuing Historiographical Enigma," <u>Historian</u> XL (February 1978): 213-234.
- McClure, Charles R., "Neither Effective Nor Fundamental the Difficulties of Indian Defense in New Mexico, 1837-1846," <u>Military History of Texas and the Southwest</u> X (1974): 73-92.
- McGinnis, Anthony, "A Contest of Wits and Daring: Plains Indians at War with the U.S. Army," <u>North Dakota</u> <u>History XLVIII (Spring 1981): 24-32.</u>
- McGraw, Robert F., "Minutemen of '61: the Pre-Civil War Massachusetts Militia," <u>Civil War History</u> XV (June 1969): 101-115.
- McGuffie, T.H., "The Bayonet A Survey of the Weapon's Employment in Warfare in the Past Three Centuries," <u>History Today XIII (August 1962): 588-593.</u>
- McGuffie, T.H., "The Lance in Battle," <u>History Today</u> VIII (August 1958): 547-580.
- McGuffie, T.H., "Musket and Rifle: Part I," <u>History Today</u> VII (April 1956): 257-263.
- McGuffie, T.H., "Musket and Rifle: Part II," <u>History Today</u> VII (July 1957): 473-479.
- McNitt, Frank, "Navaho Campaigns and the Occupation of New Mexico, 1847-1848," <u>New Mexico Historical Review</u> XLVIII (July 1968): 173-194.

McWhiney, Grady, "Who Whipped Whom? Confederate Defeat Reexamined," <u>Civil War History XII (March 1965)</u>: 5-26.

- Meade, Robert D., "The Military Spirit of the South," Current History XXX (April 1929): 55-60.
- Merrit, Major-General Wesly, "Life and Services of General Philip St. George Cooke, U.S. Army," <u>Journal of the</u> U.S. Cavalry Association VIII (June 1895): 79-92.
- Michie, P.S., "Education in its Relation to the Military Profession," <u>Journal of the Military Service</u> Institution of the United States I (1880): 154-184.
- Miller, E. Arnold, "Some Arguments used by English Pamphleteers, 1697-1700, Concerning a Standing Army," <u>Journal of Modern History</u> XVIII (December 1946): 306-313.
- Morgan, Dale L., "The Administration of Indian Affairs in Utah, 1851-1858," <u>Pacific Historian</u> XVII (November 1948): 383-409.
- Morgan, Prentice G., "The Forward Observer," <u>Military</u> Affairs XXIII (Winter 1959-1960): 209-212.
- Morrison, James L., Jr., "Educating the Civil War Generals: West Point, 1833-1861," <u>Military Affairs</u> XXXVIII (October 1979): 108-111.
- Morton, Desmond, "Cavalry or Police: Keeping the Peace on two Adjacent Frontiers, 1870-1900," <u>Journal of Canadian</u> <u>Studies</u> XII (Spring 1977): 27-35.

Morton, Lewis, "Origins of American Military Policy," <u>Military Affairs</u> XXII (Summer 1958): 75-82.

Mueller, Richard E., "Jefferson Barracks: the Early Years,"

<u>Missouri Historical Review</u> LXVII (October 1972): 7-31. Murphy, Major-General James, "The Evolution of the General Staff Concept," <u>Defense Management Journal</u> XII (July 1976): 34-39.

- Nackman, Mark E., "The Making of the Texas Citizen Soldier, 1835-1860," <u>Southwestern Historical Quarterly</u> LXXVIII (1975): 231-253.
- Napier, Lieutenant-Colonel John Hawkins, III, "The Militant South Revisited: Myths and Realities," <u>Alabama Review</u> XXXII (October 1980): 243-265.
- Nelson, Harold C., "Military Roads for War and Peace 1791-1836," Military Affairs XIX (Spring 1955): 1-14.
- Nichols, Roger C., "The Army and the Indians 1800-1830 -- A Reappraisal: The Mississippi Valley Example," <u>Pacific</u> <u>Historical Review</u> XLI (May 1972): 151-168.
- Nichols, Roger C., "Army Contributions to River Transportation, 1818-1825," <u>Military Affairs</u> XXXII (April 1969): 242-249.
- Nichols, Roger C., "The Black Hawk War: Another View," Annals of Iowa XXXVI (Winter 1963): 525-533.
- Oates, Stephen B., "The Texas Rangers in the Mexican War," <u>Texas Military History III (1963): 65-84.</u>

- Oliva, Leo F., "The Army and the Indian," <u>Military Affairs</u> XXVIII (October 1974): 117-119.
- Ott, Eloise, "Fort King: A Brief History," <u>Florida</u> Historical Quarterly XLVI (July 1967): 29-38.
- Palmer, Brigadier-General Williston B., "American Policy on Raising Armies," in <u>The Evolution of Military Policy</u> <u>the United States</u> (Carlisle Barracks: Army Information School, 1946).
- Paret, Peter, "Clausewitz and the Nineteenth Century," in Howard, ed., Theory and Practice of War, 23-41.
- Paret, Peter, "Education, Politics, and War in the life of Clausewitz," <u>Journal of the History of Ideas</u> XXIX (July-September 1968): 294-408.
- Parker, Geoffrey, "The 'Military Revolution' 1560-1660 -- A Myth?" Journal of Modern History XLVIII (June 1976): 195-214.
- Peckham, Howard H., "Josiah Harmar and his Indian Expedition," <u>Ohio State Archaeological and Historical</u> <u>Quarterly</u> LV (July-September 1946): 227-241.
- Perrine, Fred S., "Military Escorts on the Santa Fe Trail," <u>New Mexico Historical Review</u> II (April, July 1927): 175-193, 269-304, III, 265-300.
- Pocock, J.G.A., "Machiavelli, Harrington, and English Political Ideologies in the Eighteenth Century," <u>William and Mary Quarterly</u> third series XXII (October 1965): 549-583.

- Pohl, James W., "The Influence of Antoine Henri de Jomini on Winfield Scott's Campaign in the Mexican War," <u>Southwestern Historical Quarterly</u> LXXVII (1973): 86-110.
- Preston, A.W., "British Military Thought, 1856-90," <u>Army</u> <u>Quarterly LXXXIX (1964): 57-74.</u>
- Pritchard, Captain G.B., "The Saber," <u>Journal of the U.S.</u> Cavalry Association XVIII (January 1908): 521-535.
- Prucha, Francis Paul, "The Settler and the Army in Frontier Minnesota," <u>Minnesota History</u> XXIX (September 1948): 231-246.
- Reedstrom, David, "U.S. Cavalry Tactical Manuals," Colloquium on Military History, 74-84.

Reeves, Lieutenant James H., "Cavalry Raids," <u>Journal of the</u>

- U.S. Cavalry Association X (September 1897): 232-247. Rickey, Don, Jr., "The Enlisted men of the Indian Wars," <u>Military Affairs XXIII (1961): 91-96.</u>
- Rister, Carl Coke, "A Federal Experiment in Southern Plains Relations 1835-1845," <u>Chronicles of Oklahoma</u> XIV (December 1936): 434-455.
- Robinson, Willard B., "Maritime Frontier Engineering: The Defense of New Orleans," <u>Louisiana History</u> XVIII (Winter 1977): 5-62.
- Robrock, David, "The Eleventh Ohio Volunteer Cavalry on the Central Plains, 1862-1866," Louisiana History XVIII (Winter 1977): 5-62.

Rogin, Michael P., "Liberal Society and the Indian Question," <u>Politics and Society</u> I (May 1971): 269-312.

- Rosinski, Herbert, "Scharnhorst to Schlieffen: The Rise and Decline of German Military Thought," <u>Naval War College</u> <u>Review XXIX (Summer 1976): 83-103.</u>
- Ross, Steven T., "The Development of the Combat Division in Eighteenth Century French Armies," <u>French Historical</u> <u>Studies</u> IV (Spring 1965): 84-94.
- Rothenberg, Gunter E., "The Austrian Army in the Age of Metternich," <u>Journal of Modern History</u> XL (june 1968): 155-165.
- Rothfels, H., "Clausewitz:, in Edward, ed., <u>Makers of Modern</u> Strategy, 96-113.
- Ruggles, W. Oakley, "Early Recollections of Fort Dodge," <u>Iowa Journal of History</u> XLIX (April 1951): 168-184.
- Russell, Peter E., "Redcoats in the Wilderness: British Officers and Irregular Warfare in Europe and American, 1740-1760," <u>William and Mary Quarterly</u> 3rd series, XXXV (October 1978); 629-7=652.
- Sacks, B., "The Origins of Fort Buchanan Myth and Fact," Arizona and the West VII (Autumn 1965): 207-226.
- Sayles, Stephen, "Thomas Hart Benton and the Santa Fe Trail," <u>Missouri Historical Review</u> LXIX (October 1974): 1-22.

Schwoerer, Lois G., "The Literature of the Standing Army

Controversy, 1697-1699," <u>Huntington Library Quarterly</u> XXVIII (May 1965): 187-212.

- Scott, S.F., "The French Revolution and the Professionalization of the French Officer Corps, 1789-1793," in Morris Janowitz and Jacques van Dorn, <u>On</u> <u>Military Ideology</u> (Rotterdam: Universitarie Pers Rotterdam, 19971), 5-56.
- Scott, Samuel F., "The Regeneration of the Line Army during the French Revolution," <u>Military Affairs</u> XLII (September 1970): 307-330.
- Sebring, F.M., "The Indian Raid on the Cascades in March, 1856," <u>Washington Historical Quarterly</u> XIX (April 1928): 99-107.
- Showalter, Dennis E., "The Prussian <u>Landwehr</u> and its Critics, 1813-1819," <u>Central European History</u> IV (March 1971): 3-33.
- Shy, John, "The American Military Experience: History and Learning," <u>Journal of Interdisciplinary History</u> I (Winter 1971): 205-228.
- Simpson, B.M., "The Essential Clausewitz," <u>Naval War College</u> Review XXXV (March-April 1982): 54-61.
- Skelton, William B., "Army Officers' ATtitudes toward Indians, 1830-1860," <u>Pacific Northwest Quarterly</u> LXVII (July 1967): 113-124.

Skelton, William B., "The Commanding General and the Problem

of Command in the United Stats Army, 1821-1841," Military Affairs XXXIV (December 1970): 117-122.

- Smith, Cornelius C., "Our First Amphibious Assault," Military Review XXXVIII (1959): 18-28.
- Smith, Paul T., "Militia of the United States from 1846 to 1860," <u>Indian Magazine of History</u> XV (March 1919): 20-47.
- Smith, Major Samuel B., "Military Small Arms," <u>Ohio</u> <u>Commandery of the Military Order of the United States,</u> <u>Sketches of War History</u> I (1888): 174-187.
- Stackpole, Lieutenant-General E.J., "Generalship in the Civil War," <u>Military Affairs</u> XXIV (Summer 1960): 57-67.
- Starr, Stephen Z., "Cold Steel: the Saber and the Union Cavalry," <u>Civil War History</u> XI (June 1965): 142-154.
- Strachan, Hew, "Soldiers, Strategy and Sebastopol," <u>Historical Journal</u> (Cambridge) XXI (June 1978): 303-325.
- Symonds, Craig, "The Failure of America's Indian Policy on the Southwestern Frontier, 1785-1793," <u>Tennessee</u> Historical Quarterly XXV (Spring 1976): 29-45.
- Symons, Lieutenant Thomas W., "The Army and the Exploration of the West," <u>Journal of the Military Service Institute</u> IV (September 1883); 205-249.

Taylor, Mendell Lee, "The Western Service of Stephen Watts

Kearny, 1815-1848," <u>New Mexico Historical Review</u> XLIV (October 1969): 269-291.

- Taylor, Morris F., "Action at Fort Massachusetts: the Indian Campaign of 1855," <u>Colorado Magazine</u> XLII (Fall 1965): 292-310.
- Taylor, William L., "The Debate over changing Cavalry Tactics and Weapons, 1900-1914," <u>Military Affairs</u> XXVIII (Winter 1965): 173-183.
- Thomlinson, M.H., "The Dragoons and El Paso, 1848," <u>New</u> <u>Mexico Review</u> XXIII (1948): 271-224.
- Thompson, Jerry D., "Henry Hopkins Sibley and the Mexican War," Texana II (1973): 285-308.
- Trench, Charles Chenevix, "From Arquebus to Rifle: the Pursuit of Perfection," <u>History Today</u> XXIII (June 1973): 407-417.
- Trussell, Lieutenant-Colonel John B.B., "Seminoles in the Everglades A Case Study in Guerilla Warfare," <u>Army</u> XII (December 1961): 41-45.
- Upham, Cyril B., "Historical Survey of the Militia in Iowa, 1838-1865," <u>Iowa Journal of History and Politics</u> XVII (July 1919): 299-405.
- Uselding, Paul J., "Technical Progress at the Springfield Armory, 1820-1850.
- Utley, Robert M., "Fort Union and the Santa Fe Trail," <u>New</u> <u>Mexico Historical Review</u> XXXVI (January 1961\0\; 36-48.

- Vigness, David M., "Indian Raids on the Lower Rio Grande, 1836-1837," <u>Southwestern Historical Quarterly</u> LXIX (July 1955): 14-23.
- Wade, Arthur P., "Roads to the Top an Analysis of General Officer Selection in the United States Army, 1789-1898," <u>Military Affairs</u> XL (December 1976): 1557-163.Wallace, Edward S., "The United States Army in Mexico City,"

Military Affairs XIII (1949): 158-166.

- Walker, Wayne T., "Nathan Boone the Forgotten Hero of Missouri," <u>Journal of the West</u> XVIII (April 1979): 85-94.
- Watson, Michael L., Jr., "Congressional Attitudes Toward Military Preparedness, 1829-1835," <u>Mississippi Valley</u> <u>Historical Review</u> XXXIV (March 1948): 611-636.
- Westerner, J.R., "Armies" in Goodwin, A., ed., <u>New Cambridge</u> Modern History, VIII, 190-217.
- Whiteside, Henry O., "Winfield Scott and the Mexican Occupation: Policy and Practice," <u>Mid-America</u> LII (April 1970): 102-118.
- Wilkinson, Norman B., "The Forgotten Founder of West Point," Military Affairs XXIV (Winter 1960-1961): 177-188.

Williams, Bradley B., "A Soldier's Life at Ft. Atkinson," Palimpset LXIII (November/December 1982): 162-171.

Williams, T. Harry, "The Return of Jomini - Some Thoughts on Recent Civil War Writing," <u>Military Affairs</u> XXXIX (December 1975): 204-206.

- Worcester, D.E., "The Weapons of American Indians," <u>New</u> Mexico Historical Review XX (July 1945): 227-238.
- Wright, Colonel John W., "Some Notes on the Continental Army," <u>William and Mary Quarterly</u> 2nd series XI (April, July 1931): 81-101; 185-209.
- Wright, John W., "Sieges and Customs of War at the opening of the Eighteenth Century," <u>American Historical Review</u> XXXIX (July 1934): 629-644.
- Young, Otis E., "Dragoons on the Santa Fe Trail in the Summer of 1843," <u>Chronicles of Oklahoma</u> XXXII (Spring 1954): 42-51.
- Young, Otis E., "The United States Mounted Ranger Battalion, 1832-1833." <u>Mississippi Valley Historical Review</u> XLI (December 1954): 453-470.
- Young, Rogers W., "Fort Marion during the Seminole War, 1835-1842," <u>Florida Historical Society Review</u> XIII (April 1935): 193-223.

Unpublished Theses:

Griess, Thomas Everett, "Dennis Hart Mahan: West Point Professor and Advocate Military Professionalism, 1830-1871, Ph.D. dissertation, Duke University, 1968.

Schaeffer, James A., "The Tactical and Strategic Evolution of Cavalry During the American Civil War," Ph.D. dissertation, University of Toledo, 1982. Skelton, William Barratt, "The United States Army, 1821-1837: An Institutional History," Ph.D. dissertation, Northwestern University, 1968.

Thiele, Thomas, "The Evolution of Cavalry in the American Civil War, 1861-1863," Ph.D. dissertation, University of Michigan, 1951.

Bibliography

Books:

Adams, Charles Francis, <u>Studies Military and Diplomatic</u> 1775-1865 (New York: Macmillan, 1911).

- Agnew, Brad, Fort Gibson Terminal on the Trail of Tears (Norman: University of Oklahoma Press, 1980).
- Ablon, Robert Greenhalgh, <u>Introduction to Military History</u> (New York: D. Appleton-Century, 1929).
- Alger, John I., <u>The Quest for Victory the History of the</u> <u>Principles of War</u> (Westport: Greenwood, 1982).
- Ambrose, Stephen E., <u>Duty, Honor, Country A History of West</u> Point (Baltimore: John Hopkins Press, 1966).

Ambrose, Stephen D., Halleck: Lincoln's Chief of Staff

(Baton Rouge: Louisiana State University Press, 1962). Ambrose, Stephen D., <u>Upton and the Army</u> (Baton Rouge:

Louisiana State University Press, 1964).

- Ammon, Harry, James Monroe the Quest for National Identity (New York: McGraw-Hill, 1971).
- Armstrong, David, <u>Bullets and Bureaucrats the Machine Gun</u> <u>and the United States Army, 1861-1916</u> (Westport: Greenwood: 1982).

- Armstrong, Perry, <u>The Sauk and the Black Hawk War</u>, et. al. (Springfield: 1887).
- Arthur, Robert, <u>History of Fort Monroe</u> (Fort Monroe: Coast Artillery School, 1930).
- Asprey, Robert B., <u>War In The Shadows The Guerrilla In</u> History (2 vols.; Garden City: 1975).
- Athearn, Robert G., Forts of the Upper Missouri (Englewood Cliffs: Prentice-Hall, 1967).
- Bailey, L.R., <u>The Long Walk A History of the Navajo Wars</u>, <u>1846-1868</u> (reprint; Los Angeles: Westernlore Press, 1964 (1918)).
- Balik, Colonel, <u>Tactics</u> (2 vols.; Fort Leavenworth: U.S. Cavalry Association, 1915).
- Bancroft, Hurbert Howe, <u>History of Arizona and New Mexico</u> <u>1530-1888</u> (San Francisco: History Company Publishers, 1889).
- Barker, A.J., Redcoats (London: Gordon & Cremones, 1976).
- Barker, Thomas M., <u>Army, Aristocracy, Monarchy: Essays on</u> <u>War, Society, and Government in Austria, 1618-1780</u> (Boulder: Social Science Monographs, 1982).

Barnard, Henry, Military Schools and Courses of Instructions

in the Science and Art of War, et. al. (rev. ed.; New Barnett, Corelli, Britain and Her Army 1509-1970 A Military,

Political and Social Survey (New York: William Morrow, 1970).

Beebe, Gilbert W. and DeBakey, Michael E., <u>Battle of</u> <u>Casualties, Incidence, Mortality and Logistic</u> <u>Considerations</u> (Springfield: Charles C. Thomas, 1952).
Becke, Captain Archibald F., <u>An Introduction to the History</u>

of Tactics 1740-1905 (London: Hugh Rees, 1909). Beers, Henry Putney, The Western Military Frontier 1815-1846

(Philadelphia: Time and News, 1935).

Bernhardi, Van, <u>Cavalry A Popular Edition of "Cavalry In War</u> and Peace", (London: Hodeler & Staughton, 1914).

Bender, Averam B., <u>The March of Empire Frontier Defense in</u> the Southwest 1848-1860 (Lawrence: University of

Kansas Press, 1952).

- Bernardo, Major C. Joseph and Bacon, Eugene H., <u>American</u> <u>Military Policy Its Development Since 1775</u> (Harrisburg: Military Service Publishing, 1955).
- Best, Geoffrey, <u>War and Society In Revolutionary Europe</u> 1770-1870 (New York: St. Martin's 1982).
- Bigelow, Captain John, Jr., <u>The Principles of Strategy</u> <u>Illustrated Mainly from American Campaigns</u> (Philadelphia: J.B. Lippincott, 1894).
- Billington, Ray Allen, <u>The Far Western Frontier 1830-1860</u> (New York: Harper Torchbooks, 1962).
- Birkhimer, William E., <u>Historical Sketch of the</u> Organization, Administration, Material and Tactics of <u>the Artillery, United States Army</u> (Washington, D.C.: James J. Chapman, 1884).

- Bloch, Jean de, <u>The Future of War</u>, et. al. (Boston: Ginn, 1899).
- Blumerson, Martin and Stokesly, James L., <u>Masters of the Art</u> of Command (Boston: Houghton Mifflin, 1975).
- Bond, Major P.S. and McDonough, Major M.J., <u>Technique of</u> <u>Modern Tactics A Study of Troop Leading</u>, et. al. (3rd ed., Menasha: George Banto, 1916).
- Bonie, Lieutenant-Colonel, Koehler, Major and Davis, Lieutenant-Colonel George B., <u>Cavalry Studies from Two</u> Wars (Kansas City: Hudson-Kimberly, 1896).
- Boynton, Captain Edward C., <u>History of West Point</u>, et. al. (New York: D. van Nostrand, 1863).

Brereton, J.M., The Horse In War (New York: Arco, 1976).

- Brialmont, Lieutenant-General, <u>Combat Tactics of Cavalry</u> (Fort Leavenworth: United States Infantry and Cavalry School, 1893).
- Browning, Oscar, <u>Wars of the Century and the Development of</u> Military Science (Toronto: Linsott, 1903).
- Browing, Roberts, <u>Two If By Sea the Development of American</u> Coastal Defense Policy (Westport: Greenwood, 1983).

Bruce, Robert, Lincoln and the Tools of War (Indianapolis: Bobbs-Merrill, 1956).

- _____
- Caemmerer, Lieutenant-General Van, <u>The Development of</u> <u>Strategical Science During the 19th Century</u> (London: Hugh Rees, 1905).

Caldwell, Colonel L.E., Small Wars Their Principles and

Practice (3rd ed.; London: Harrison and Sons, 1906).

- Calhoun, Daniel H., <u>Professional Lives In America Structure</u> and Aspiration 1750-1850 (Cambridge: Harvard University Press, 1965).
- Calthorpe, Lieutenant-Colonel Sommerset J., <u>Cardigan's</u> Crimea (New York: Athereum, 1980).
- Carman, W.Y., <u>A History of Firearms from Earliest Times to</u> <u>1914</u> (London: Routlege & Keegan Paul, 1963).
- Carter, Major-General William Harding, <u>The American Army</u> (Indianapolis: Bobbs-Merrill, 1915).
- Carter, Captain William Harding, <u>Horses, Saddles and Bridle</u> (Leavenworth: Ketcheson & Reeves, 1895).
- Catton, Bruce, <u>America Goes to War</u> (Middleton: Wesleyan University Press, 1958).
- Catton, Bruce, <u>Mr. Lincoln's Army</u> (Garden City: Doubleday, 1951).
- Catton, Bruce, <u>Reflections on the Civil War</u> (Garden City: Doubleday, 1981).
- Challenger, Richard D., <u>The French Theory of the Nation in</u> <u>Arms 1866-1939</u> (New York: Columbia University Press, 1955).
- Chandler, David G., <u>The Campaigns of Napoleon</u> (New York: Macmillan, 1966).
- Chesney, Colonel Charles Cornwallis, <u>Essays in Military</u> <u>Biography</u> (New York: Henry Holt, 1874).

- Chesney, Lieutenant-Colonel Charles C., <u>Waterloo Lectures A</u> <u>Study of the Campaign of 1815</u> (2nd ed.; London: Longmans, Green, 1869).
- Chidsey, Donald Barr, <u>The War With Mexico</u> (New York: Crown, 1968).
- Childers, Erskine, <u>War and the Arme Blanche</u> (London: Edward Arnold, 1910).
- Childs, John, <u>Armies and Warfare in Europe, 1648-1789</u> (New York: Holmes and Meir, 1982).
- Chittenden, Captain Hiram Martin, <u>History of Early Steamboat</u> <u>Navigation on the Missouri</u>, et. al. (reprint; Minneapolis: Ross & Haines, 1962 (1903)).
- Clarke, Dwight C., <u>Stephen Watts Kearny</u> (Norman: University of Oklahoma, 1961).
- Cleves, Freeman, <u>Rock of Chickemauga, the Life of General</u> <u>George H. Thomas</u> (Norman: University of Oklahoma Press, 1948).
- Coggins, Jack, <u>Arms and Equipment of the Civil War</u> (Garden City: Doubleday, 1962).
- Coit, Margaret C., John C. Calhoun American Portrait (Boston: Houghton Mifflin, 1950).
- Coles, Harry L., <u>The War of 1812</u> (Chicago: University of Chicago Press, 1965).
- Colin, Commandant J., France and the Next War A French View of Modern War (London: Holder & Staughton, 1914).

- Colby, Captain Elbridge, <u>American Militarism</u> (Washington, D.C.: Society of American Military Engineers, 1934).
- Colby, Elbridge, <u>Masters of Mobile Warfare</u> (Princeton: Princeton University Press, 1943).
- Cottesloe, Baron (T.F. Freemantle), The Book of the Rifle (London: Longmans, Green, 1901).
- Cowper, H.S., <u>The Art of Attack</u>, being a Study in the <u>Development of Weapons and Appliances of Offense</u>, et. al. (Winston: W. Holmes, 1906).
- Craig, Gordon, <u>The Politics of the Prussian Army 1640-1945</u> (New York: Oxford University Press, 1964).
- Cress, Lawrence Delbert, <u>Citizens in Arms the Army and the</u> <u>Militia in American Society to the War of 1812</u> (Chapel

Hill: University of North Carolina Press, 1982).

- Cresson, W.P., <u>James Monroe</u> (Chapel Hill: University of North Carolina Press, 1946).
- Crevald, Martin van, <u>Fighting Power German and U.S. Army</u> Performance, 1939-1945 (Westport: Greenwood, 1982).
- Crevald, Martin van, <u>Supplying War Logistics from</u> <u>Wallenstein to Patton</u> (London: Cambridge University Press, 1977).
- Cunliffe, Marcus, <u>Soldiers & Civilians The Martial Spirit in</u> America 1775-1868 (Boston: Little, Brown, 1968).
- Curtis, James C., <u>Andrew Jackson and the Search for</u> <u>Vindication</u> (Boston: Little, Brown, 1976).

- Davis, Carl C., <u>Arming the Union Small Arms in the Civil War</u> (Port Washington: Kennucat, 1973).
- Davidson, Captain Homer K., <u>Black Jack Davidson A Cavalry</u> <u>Commander on the Western Frontier</u>, et. al. (Glendale: Arthur H. Clarke, 1974).
- Davies, General Henry E., <u>General Sheridan</u> (New York: D. Appleton, 1895).
- Delbuck, Hans, <u>History of the Art of War within the</u> <u>Framework of Political History</u> (reprint; 3 vols., Westport: Greenwood, 1975).
- DePeyster, John Watts, <u>Personal and Military History of</u> <u>Philip Kearny</u>, et. al. (New York: Rice and Gage, 1869).
- DeVoto, Bernard, <u>Across the Wide Missouri</u> (Boston: Houghton Mifflin, 1947).
- DeVoto, Bernard, <u>The Year of Decision 1846</u> (Boston: Little, Brown, 1943).
- Dixon, Norman, <u>On the Psychology of Military Incompetence</u> (New York: Barie Books, 1976).
- Dodge, Colonel Theodore Ayrault, <u>Gustavaus Adolphus A</u> <u>History of the Art of War from its Revival after the</u> <u>Middle Ages to the End of the Spanish Succession</u>, et. al. (2 vols.; Boston: Houghton Mifflin, 1895).
- Donald, David, <u>Lincoln Reconsidered</u> (New York: Alfred A. Knopf, 1956).

- Donald, David, <u>Why the North Won the Civil War</u> (s.l.: Louisiana State University Press, 1960).
- Downey, Fairfax, <u>Clash of Cavalry the Battle of Brandy</u> Station, June 9, 1863 (New York: David McKay, 1959).
- Downey, Fairfax, <u>Indian Fighting Army</u> (New York: Charles Scribner's, 1941).
- Downey, Fairfax, <u>Indian Fighting Army 1776-1865</u> (Garden City: Doubleday, 1963).
- Duffy, Christopher, <u>Siege Warfare the Fortress in the Early</u> <u>Modern World 1494-1660</u> (London: Routledge & Keegan Paul, 1979).
- Duffus, Robert L., <u>The Santa Fe Trail</u> (New York: Longmans, Green, 1939).
- Duffy, Christopher, <u>The Army of Frederick the Great</u> (New York: Hippocrene, 1974).
- Dufour, Charles L., <u>The Mexican War A Compact History, 1846-</u> 1848 (New York: Hawthorn, 1968).
- Dupuy, Colonel R. Ernest, <u>The Compact History of the United</u> <u>States Army</u> (rev. ed.; New York: Hawthorn, 1961).
- Dupuy, Colonel R. Ernest and Dupuy, Colonel Trevor N., <u>Military Heritage of America</u> (New York: McGraw Hill, 1956).
- Dupuy, Colonel Trevor N., <u>The Evolution of Weapons and</u> Warfare (Indianapolis: Bobbs-Merrill, 1980).
- Dupuy, Colonel T.N., <u>Numbers, Predictions and War: Using</u> History to Evaluate Combat Factors and Predict the

Outcome of Battles (Indianapolis: Bobbs-Merrill, 1979).

- Dyer, Brainard, <u>Zachary Taylor</u> (Baton Rouge: Louisiana State University Press, 1946).
- Eames, Captain Henry E., <u>The Rifle in War</u> (Fort Leavenworth: U.S. Cavalry Association, 1909).
- Edwards, William B., <u>Civil War Guns</u> (Harrisburg: Stackpole, 1962).
- Eliot, George Fielding, <u>Sylvanus Thayer of West Point</u> (New York: Julian Messner, 1959).
- Elliott, Major Charles Winslow, <u>Winfield Scott the Soldier</u> and the Man (New York: Macmillan, 1937).
- Ellis, John, <u>Armies in Revolution</u> (New York: Oxford University Press, 1974).
- Ely, Cecil, <u>"That Disgraceful Affair" the Black Hawk War</u> (New York: W.W. Norton, 1973).
- Emmett, Chris, Fort Union and the Winning of the West (Norman: University of Oklahoma Press, 1965).
- Fleming, Thomas J., <u>West Point the Men and Times of the</u> <u>United States Military Academy</u> (New York: Morrow, 1969).
- Foch, General Ferdinand, <u>The Principles of War</u> (reprint; New York: AMS Press, 1970 (1918)).
- Foertisch, Colonel Herman, <u>The Art of Modern Warfare</u> (New York: Oskar Piest, 1940).

- Foreman, Grant, <u>Advancing the Frontier 1830-1860</u> (Norman: University of Oklahoma Press, 1933).
- Foreman, Grant, <u>Indian Removal the Emigration of the Five</u> <u>Civilized Tribes of Indians</u> (Norman: University of Oklahoma, 1932).
- Foreman, Grant, <u>Pioneer Days in the Early Southwest</u> (Cleveland: Arthur H. Clarke, 1926).
- Forman, Sidney, <u>History of the United States Military</u> Academy (New York: Columbia University Press, 1950).
- Forsyth, Brevet Brigadier-General George A., <u>The Story of</u> the Soldier (New York: D. Appleton, 1900).
- Fortescue, J.W., <u>A History of the British Army</u> (8 vols.; London: Macmillan, 1898-1930).
- Fortescue, J.W., <u>Military History</u> (Cambridge: Cambridge University Press, 1923).
- Francke, Arthur, Fort Mellan 1837-42 A Microcosm of the Second Seminole War (Miami: Banyon, 1977).
- Franklin, John Hope, <u>The Militant South 1800-1861</u> (Cambridge: Harvard University Press, 1956).
- Frazer, Robert W., Forts of the West, et. al. (Norman: University of Oklahoma, 1965).
- Freeman, Douglas Southall, <u>R.E. Lee A Biography</u> (4 vols.; New York: Charles Scribner's, 1934-1935).
- Freytag-Loringhoven, Major-General, Baron, <u>The Power of</u> <u>Personality in War</u> (Harrisburg: Military Service Publishing, 1955).

- Frink, Maurice, Fort Defiance & the Navajos (Boulder: Pruett Press, 1968).
- Fry, Colonel James B., <u>The History and Legal Effect of</u> <u>Brevets in the Armies of Great Britain and the United</u> States (New York: D. van Nostrand, 1877).
- Fry, Colonel James B., <u>Military Miscellanies</u> (New York: Brentono's, 1889).
- Fry, James B., <u>A Sketch of the Adjutant General's Department</u> <u>U.S. Army from 1775 to 1875</u>, et. al. (New York: p.p., 1876).
- Fuller, Claude E., <u>The Breech Loader in the Service 1816-</u> <u>1917</u>, et. al. (Milford: N. Flaydermond, 1965).
- Fuller, Claude E. and Stewart, Richard D., <u>Firearms of the</u> <u>Confederacy</u> (Lawrence: Quartermain, 1944).
- Fuller, Major-General J.F.C., <u>Armament and History</u> (New York: Charles Scribner's, 1945).
- Fuller, Colonel J.F.C., <u>British Light Infantry in the</u> Eighteenth Century (London: Hutchinson, 1925).
- Fuller, J.F.C., <u>The Conduct of War 1789-1961</u> (New Brunswick: Rutgers University Press, 1961).
- Fuller, Major-General J.F.C., <u>Decisive Battles of the U.S.A.</u> (New York: Harper, 1942).
- Fuller, Major-General J.F.C., <u>Grant and Lee A Study in</u> <u>Personality and Generalship</u> (Bloomington: Indiana University Press, 1957).

- Funcken, Cliane and Funcken, Fred, <u>The Napoleonic Wars</u> (2 vols.; London: Ward Lock, 1968).
- Ganoe, Colonel William Addleman, <u>The History of the United</u> <u>States Army</u> (2nd ed.; New York: D. Appleton-Century, 1942).
- Gibbs, Montgomery B., <u>Military Career of Napoleon the Great</u> (Chicago: Werner, 1899).
- Glazer, Michael, <u>Wellington's Peninsular Victories</u> (New York: Macmillan, 1963).
- Gluckman, Major Arcadi, <u>United States Martial Pistols and</u> Revolvers (Buffalo: Otto Ulbrich, 1939).
- Gluckman, Colonel Arcadi, <u>United States Muskets, Rifles and</u> Carbines (Buffalo: Otto Ulbrich, 1948).
- Goerlitz, Walter, <u>History of the German General Staff 1657-</u> 1945 (New York: Frederick A. Praeger, 1953).
- Goetzman, William H., Army Exploration in the American West

1803-1863 (New Haven: Yale University Press, 1986).

- Goltz, Field-Marshall, Baron von der, <u>The Nation in Arms A</u> <u>Treatise on Modern Military Systems and the Conduct of</u> <u>War</u> (London: Hodder and Staughton, 1906).
- Gooch, John, <u>Armies in Europe</u> (London: Routledge & Keegan Paul, 1980).
- Gray, Alonzo, <u>Cavalry Tactics as Illustrated by the War of</u> <u>the REbellion</u>, et. al. (Fort Leavenworth: U.S. Cavalry Association, 1910).

Griffith, Paddy, Forward into Battle Fighting Tactics from Waterloo to Vietnam (Sussex: Antony Bird, 1981).

Hackett, General, Sir John Winthrop, The Profession of Arms (London: Times Publishing, 1962).

- Hafen, LeRoy R., Fort Lorain and the Pagent of the West 1834-1890 (Glendale: Arthur H. Clarke, 1938).
- Hagan, William T., <u>The Sac and Fox Indians</u> (Norman: University of Oklahoma Press, 1958).
- Hall, A.R., <u>Ballistics in the Seventeenth Century</u>, et. al. (Cambridge: Oxford University Press, 1952).
- Hall, Captain Ronald Acott, <u>Studies in Napoleonic Strategy</u> (London: Allen & Cenium, 1918).
- Hamley, Colonel, Sir Edward Bruce, <u>The Operations of War</u> <u>Explained and Illustrated</u> (3rd ed.; Edinburgh: William Blackwood, 1872).
- Hansen, Marcus L., <u>Old Fort Snelling</u> (Iowa City: University of Iowa Press, 1917).
- Hassler, Warren W., <u>With Shield and Sword American Military</u> <u>Affairs Colonial Times to the Present</u> (Ames: Iowa State University Press, 1982).
- Hattaway, Herman and Jones, Archer, <u>How the North Won A</u> <u>Military History of the Civil War</u> (Urbana: University of Illinois Press, 1983).
- Havelock-Allan, Major, Sir Henry M., <u>Three Main Military</u> <u>Questions of the Day</u>, et. al. (London: Longmans, Green, 1867).

- Liddell Hart, B.H., <u>The Decisive Wars of History A Study in</u> Strategy (Boston: Little, Brown, 1929).
- Liddell Hart, B.H., <u>The Ghost of Napoleon</u> (London: Longmans, Green, 1933).
- Liddell Hart, B.H., <u>Strategy the Indirect Approach</u> (New York: Frederick A. Praeger, 1954).
- Liddell Hart, Captain B.H., <u>The Remaking of Modern Armies</u> (Boston: Little, Brown, 1928).
- Liddell Hart, B.H., <u>The Revolution in Warfare</u> (New Haven: Yale University Press, 1947).
- Lloyd, Colonel E.M., <u>A Review of the History of Infantry</u> (London: Longmans, Green, 1908).
- Logan, General John A., <u>The Volunteer Soldier of America</u>, et. al. (Chicago: R.S. Peale, 1887).
- Longacre, Edward G., <u>From Union Stars to Top Hat a Biography</u> of the Extraordinary General James Harrison Wilson

(Harrisburg: Stackpole, 1972).

- Longacre, Edward G., <u>Mounted Raids of the Civil War</u> (South Brunswick: A.S. Barnes, 1975).
- Longstreet, Stephen, <u>War Cries on Horseback the Story of the</u> <u>Indian Wars of the Great Plains</u> (Garden City: Doubleday, 1970).
- Lunt, James D., <u>Charge to Glory</u>! (New York: Harcourt, Brace, 1960).

Luvaas, Jay, The Military Legacy of the Civil War the

European Inheritance (Chicago: University of Chicago Press, 1959).

- Mahon, John K., <u>History of the Militia and the National</u> Guard (New York: Macmillan, 1982).
- Mahon, John K., <u>History of the Second Seminole War 1835-1842</u> (Gainesville: University of Florida, 1967).
- Mahon, John K., <u>The War of 1812</u> (Gainesville: University of Florida Press, 1972).
- Maland, David, Europe At War 1600-1650 (Totowa: Roun and Littlefield, 1980).
- Matloff, Maurice, ed., <u>American Military History</u> (Washington, D.C.; U.S. Government Printing Office, 1969).
- Maude, Lieutenant-Colonel F.N., <u>The Evolution of Modern</u> <u>Strategy from the XVIII Century to the Present Time</u> (London: William Cloues, 1905).
- Marquis, Thomas B., <u>Keep the Last Bullet for Yourself the</u> <u>True Story of Custer's Last Stand</u> (New York: Reference Publications, 1976).
- Maude, Captain F.N., <u>Cavalry Versus Infantry</u> (Kansas City: Hudson Kimberly, 1896).
- Maude, Captain F.N., <u>Letters on Tactics and Organization</u>, et. al. (Leavenworth: 1891).
- McElwee, William, <u>The Art of War Waterloo to Mars</u> (Bloomington: Indiana University Press, 1974).

Theory of Military Tactics in Eighteenth Century France (New York: Columbia University Press, 1957).

- Reilly, Robert M., <u>United States Military Small Arms 1816-</u> <u>1865 the Federal Firearms of the Civil War</u> (n.p.: Eagle, 1970).
- Rhodes, Charles B., <u>History of the Cavalry of the ARmy of</u> <u>the Potomac</u>, et. al. (Kansas City: Hudson-Kimberly, 1900).
- Rickey, Don, Jr., Forty Miles a Day on Beans and Hay the Enlisted Soldier Fighting the Indian Wars (Norman: University of Oklahoma Press, 1963).
- Rippy, James Fred, <u>Joel R. Poinsett, Versatile American</u> (Durham: Duke University Press, 1935).
- Riskin, Erna, <u>Quartermaster Support of the Army a History of</u> <u>the Corps 1775-1939</u> (Washington, D.C.: Quartermaster General, 1962).
- Rister, Carl Coke, <u>The Southwestern Frontier 1865-1881</u> (Cleveland: Arthur H. Clarke, 1928).
- Roberts, Michael, <u>The Military Revolution 1560-1660</u> (Belfast: Marjory Boyd, 1956).
- Robinson, Willard, <u>American Forts: Architectural Form and</u> <u>Function</u> (Champaign: University of Illinois Press, 1977).
- Rodenbaugh, Theo F. and Haskin, William L., <u>The Army of the</u> <u>United States</u> (New York: Maynard, Merrill, 1896).

- Ropp, Theodore, <u>War in the Modern Era</u> (Durham: Duke University Press, 1959).
- Rosebush, Waldo E., Frontier Steel the Men and their Weapons (Appleton: C.C. Nelson, 1958).
- Rosinski, Herbert, <u>The German Army</u> (New York: Harcourt, Brace, 1940).
- Ross, Steven, <u>From Flintlock to Rifle Infantry Tactics</u>, <u>1740-1866</u> (London: Associated University Press, 1979). Rothenberg, Gunther E., <u>The Army of Francis Joseph</u> (West

Lafayette: Purdue University Press, 1976).

- Rothenberg, Gunther E., <u>The Art of War in the Age of</u> <u>Napoleon</u> (Bloomington: Indiana University Press, 1980).
- Satz, Ronald N. <u>American Indian Policy in the Jacksonian Era</u> (Lincoln: University of Nebraska press, 1975).
- Schlesinger, Arthur M., Jr., <u>The Age of Jackson</u> (Boston: Little, Brown, 1945).
- Schmidt, Major-General Carl von, <u>Instructions for the</u> <u>Training, Employment and Leading of Cavalry</u> (reprint; Westport: Greenwood, 1968 (1881)).
- Settle, Raymond W., <u>The March of the Mounted Riflemen</u>, et. al. (Glendale: Arthur H. Clarke, 1940).
- Settle, Raymond W. and Settle, Mary Lind, <u>War Drums and</u> <u>Wagon Wheels the Story of Russell, Meyers and Weddell</u> (Lincoln: University of Nebraska, 1966).

Shannon, Fred Albert, The Organization and Administration of

the Union Army 1861-1865 (Cleveland: Arthur H. Clarke, 1928).

- Shaw, G.C., <u>Supply In Modern War</u> (London: Faber & Faber, 1938).
- Shayne, Philip B., <u>The Rifle in America</u> (New York: William Morrow, 1938).
- Showalter, Dennis E., <u>Railroads and Rifles Soldiers</u>, <u>Technology</u>, and the Unification of Germany (Hamden: Archon, 1975).
- Silver, James W., <u>Edmund Pendleton Gaines Frontier General</u> (Baton Rouge: Louisiana State University Press, 1949).
- Simpson, Hodel B., <u>Frontier Forts of Texas</u> (Waco: Texian, 1966).
- Singletary, Otis A., <u>The Mexican War</u> (Chicago: University of Chicago, 1960).
- Smith, Major-General Francis H., <u>History of the Virginia</u> <u>Military Institute</u>, et. al. (Lynchburg: J.P. Bell, 1912).
- Smith, Louis, <u>American Democracy and Military Power</u> (Chicago: University of Chicago Press, 1951).

Smith, Justin H., <u>The War with Mexico</u> (2 vols.; New York: Macmillan, 1919).

Smith, Brigadier-General Dale O., <u>U.S. Military Doctrine A</u> <u>Study and Appraisal</u> (New York: Buell, Sloan and Pierce, 1955).

Smith, Merritt Roe, <u>Harpers Ferry Armory and the New</u> <u>Technology the Challenge of Change</u> (Ithaca: Cornell University Press, 1977).

Spaulding, Colonel Oliver Lyman, <u>The United States Army in</u> War and Peace (New York: G.P. Putnam's, 1937).

Starr, Stephen Z., <u>The Union Cavalry in the Civil War</u> (2 vols. to date; Baton Rouge: Louisiana State University Press, 1971).

Steckmesser, Kent L., <u>The Westward Movement A Short History</u> (New York: McGraw-Hill, 1969).

Steffen, Randy, <u>The Horse Soldier 1776-1943 the United</u> <u>States Cavalryman his Uniforms, Arms, Accouterments,</u> <u>and Equipments</u> (4 vols.; Norman: University of Oklahoma, 1977).

Stevens, Francke E., <u>The Black Hawk War Including a Review</u> of Black Hawk's Life (Chicago: p.p., 1903).

Stuart, Charles Beebe, <u>Lives and Works of Civil and Military</u> <u>Engineers of America</u> (New York: D. van Nostrand, 1871).

- Stuart, Reginald C., <u>War and American Thought from the</u> <u>Revolution to the Monroe Doctrine</u> (Kent: Kent State University, 1982).
- Strachan, Hew, <u>European Armies and the Conduct of War</u> (London: George Allen & Urwin, 1983).
- Tebbel, John and Jennison, Keith, <u>The American Indian Wars</u> (New York: Harper, 1960).

Teither, Gerke, <u>The Genesis of the Professional Officers</u>' Corps (Beverly Hills: Sage, 1977).

Todd, Richard P., <u>American Military Equipment 1851-1872</u> (New York: Charles Scribners, 1980).

Turner, Frederick Jackson, The Frontier in American History

(New York: Henry Holt, 1920).

- Tuttle, Richard Charles, <u>History of the Border Wars of Two</u> Centuries, et. al. (Chicago: C.A. Wall, 1874).
- United States, <u>The Centennial of the United States Military</u> <u>Academy at West Point, New York</u> (2 vols.; Washington, D.C.; Government Printing Office, 1904).
- United States, <u>The Sesquicentennial of the United States</u> <u>Military Academy</u>, et. al. (West Point: Bacur, James, Hausauer & Savage, 1952).
- Upton, Emory, <u>The Armies of Asia and Europe: Embracing</u> <u>Official Reports of the Armies of Japan, China, India,</u> <u>Russian, Italy, Prussia</u>, et. al. (New York: D. Appleton, 1878).
- Upton, Emory, <u>Military Policy of the United States</u> (Washington, D.C.: Government Printing Office, 1917).
- Utley, Robert M., <u>Frontiersmen in Blue the United States</u> <u>Army and the Indian 1848-1868</u> (New York: Macmillan, 1967).
- Vagts, Alfred, <u>A History of Militarism Romance and Realities</u> of a <u>Profession</u> (New York: W.W. Norton, 1937).

- Van Deusen, Glyndon G., <u>The Jacksonian Era, 1828-1848</u> (New York: Harper Torchbooks, 1963).
- Vandiver, Frank E., <u>Plowshares into Swords Josiah Gorgas and</u> <u>Confederate Ordnance</u> (Austin: University of Texas, 1952).
- Vale, Malcolm, <u>War and Chivalry</u>, et. al. (Athens: University of Georgia Press, 1981).
- Van Every, Dale, <u>Disinherited: The Lost Birthright of the</u> <u>American Indian</u> (New York: Morrow, 1966).
- Van Every, Dale, <u>The Final Challenge the American Frontier</u> <u>1804-1845</u> (New York: Morrow, 1964).
- Vaughan, J.W., <u>Indian Fights New Facts on Seven Encounters</u> (Norman: University of Oklahoma, 1966).
- Vestal, Stanley, <u>The Old Santa Fe Trail</u> (Boston: Houghton Mifflin, 1939).
- Viollet-Le-Duc, Eugene E., <u>Military Architecture</u> (3rd ed.; Oxford: James Parker, 1907).
- Wallace, Anthony F.C., <u>Prelude to Disaster: The Course of</u> <u>Indian-White Relations which led to the Black Hawk War</u> <u>of 1812</u> (Springfield: Illinois State Historical Library, 1970).
- Wallace Edward S., <u>The Great Reconnaissance Soldiers</u>, <u>Artists and Scientists on the Frontier</u>, 1848-1861 (Boston: Little, Brown, 1955).
- Wartenburg, Colonel, Count Yorck von, <u>Napoleon as a General</u> (2 vols.; s.l: Wolseley, 1898).

- Walton, George, <u>Sentinel of the Plains Fort Leavenworth and</u> <u>the American West</u> (Englewood Cliffs: Prentice-Hall, 1973).
- Ward, John William, <u>Andrew Jackson, Symbol for an Age</u> (New York: Oxford University Press, 1966).
- Waugh, E.D., <u>West Point</u>, et. al. (New York: Macmillan, 1944).
- Webb, Walter, Prescott, <u>The Texas Rangers A Century of</u> Frontier Defense (Boston: Houghton Mifflin, 1935).
- Weigley, Russel, <u>History of the United States Army</u> (New York: Macmillan, 1967).
- Weigley, Russel F., <u>Towards an American Army Military Thought</u> <u>from Washington to Marshall</u> (New York: Columbia University Press, 1962).
- Wesly, Edgar Bruce, <u>Guarding the Frontier A Study of</u> <u>Frontier Defense from 1815 to 1825</u> (St. Paul: University of Minnesota, 1935).
- Wheeler, J.B., <u>A Course of Instruction in the Elements of</u> <u>the Art and Science of War</u>, et. al. (New York: D. van Nostrand, 1878).
- White, Howard, <u>Executive Influence in Determining Military</u> <u>Policy in the United States</u> (Urbana: University of Illinois, 1925).
- White, Leonard D., <u>The Jacksonians A Study in Administrative</u> History 1829-1861 (New York: Macmillan, 1954).

- White, Leonard D., <u>The Jeffersonians A Study in</u> <u>Administrative History 1801-1829</u> (New York: Macmillan, 1951).
- Wilcox, General Cadmus M., <u>History of the Mexican War</u> (Washington, D.C.: Church News, 1892).
- Wilkinson, Spenser, <u>The Brains of an Army a Popular Account</u> <u>of the German General Staff</u> (2nd ed.; Westminster: Archibald Lenstatte, 1895).
- Wilkinson, Spenser, <u>The French Army Before Napoleon</u> (Oxford: Clarendon, 1915).
- Williams, Kenneth P., <u>Lincoln Finds a General A Military</u> <u>Study of the Civil War</u> (5 vols.; New York: Macmillan, 1964).
- Williams, T. Harry, <u>The History of American Wars from 1745</u> to 1918 (New York: Alfred A. Knopf, 1981).
- Williams, T. Harry, <u>The Selected Essays of T. Harry Williams</u> (Baton Rouge: Louisiana State University Press, 1983).
- Wilste, Charles M., John C. Calhoun Nationalist, 1782-1828 (Indianapolis: Bobbs-Merrill, 1944).
- Wilste, Charles M., John C. Calhoun, Nullifer, 1829-1839 (Indianapolis: Bobbs-Merrill, 1949).
- Wintringham, Tom, <u>Weapons and Tactics</u> (London: Faber and Faber, 1943).
- Wood, General, Sir Evelyn, <u>Achievements of Cavalry</u> (London: George Bell, 1897).

Wood, General, Sir Evelyn, <u>Cavalry in the Waterloo Campaign</u> (Boston: Roberts, 1896).

Woodford, Frank B., <u>Lewis Cass the last Jeffersonian</u> (New Brunswick: Rutgers University Press, 1950).

Woods, Major-General Leonard, <u>Our Military History its Facts</u> <u>and Fallacies</u> (Chicago: Reilly & Bretton, 1916).