

1921

## **New England's agricultural position**

Josiah C. Folsom  
*University of Massachusetts Amherst*

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**JOSIAH C. FOLSOM**

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NEW ENGLAND'S AGRICULTURAL POSITION

by

Joshua C. Tolson

Thesis submitted for the degree of  
Master of Science

Massachusetts Agricultural College  
Amherst, Massachusetts

May 1921.

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JUL 24 1892



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1700-1800

## NEW ENGLAND'S AGRICULTURAL POSITION

### I. INTRODUCTION

New England's agriculture has been denounced repeatedly as backward and a failure, and some of the critics have been decidedly caustic and pessimistic in their outspokenness. One writer (1)\* stated:

"New England's agriculture is a thing apart from New England. That group of states represents the ultimate in industrial supremacy; broadly visualized, the agriculture therein stands for all that is retrogressive."

"Once the agricultural colossus of the nation, New England farming today is the inspiration of gloom. For more than half a century the product has declined. The rural population, unable to endure, has migrated to the cities or to the fields of the west, leaving a serried rear-guard to keep up the fight. New England's Colonial and Revolutionary history and her wealth of manufacturing industry must be her boast. Her agriculture is a broken reed."

Elsewhere (2) he continued:

"Outside the boundaries of New England, the belief prevails that these states are composed of series of abandoned farms with cultivated areas thrown in to break the monotony; that anybody can go in there and pick up a farm for a little more than a song."

He interviewed the secretary of the Connecticut Board of Agriculture who denied that such charges applied to his state; but official assurances from Washington informed him that the state had some 300,000 acres of cut-over land and many neglected farms.

Very frequently there appear in print statements to the effect that crops once raised extensively are seldom grown now in New England and yields are shrinking; that farm animals and their products are diminishing in number and amount; that farm products

\*Numbers and characters in parentheses refer to the bibliography.

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generally are inferior in quality and smaller in quantity than they should be; that the agricultural industry is becoming steadily less capable of sustaining New England's population; that rural population is declining in what were once prosperous agricultural sections; that the numbers of farmers and of farms are dwindling and that farm property is lessening in value.

Specific cases are frequently pointed out in support of these assertions. The western Massachusetts hill towns are held up as once prosperous farming communities now greatly reduced in population, productivity and value of property (3). Many point it out as evidences of poor agriculture that the farm family is no longer self-sustaining as it was a century or less ago; that the New England states have now to bring in the bulk of their foods; and that small grain crops such as wheat are raised much less than half a century ago. The critics point at the decline in numbers of farm livestock; especially dairy cattle and sheep (5,6) and their products in the face of the increase of population. New England farms are said not to be yielding a dollar for a dollar's worth of work (7). Official data prove the average dairy farm loses money (15,16,17).

That New England lands are worn out is often asserted, backed at times by statements of great amounts of fertilizers used in intensive agriculture. Instances are cited of the inability of farmers on good lands to sell products profitably because of the distance to markets or because of poor roads (19,34). Dealers, we are told, have difficulty in getting the desired quantity and quality of New England products (5). The typical small New England fields, stone walls, lack of power tools and other improved equipment are points of criticism and the Yankee's conservatism and individualism are attacked. His methods are called unprogressive.

The first part of the document is a letter from the Secretary of the State to the President, dated January 1, 1865. It contains a report on the progress of the war and the state of the Union.

The second part of the document is a letter from the President to the Secretary of the State, dated January 1, 1865. It contains a response to the report and expresses the President's views on the war and the future of the country.

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With these complaints and criticisms in mind Dr. Alexander E. Cance suggested that the writer study the situation, thus furnishing the subject and the purpose of this paper. To him and to each other member of the staff of the Department of Agricultural Economics is made acknowledgement of indebtedness for suggestions and help.

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... ..  
... ..  
... ..

## II. INVESTIGATION OF THE SITUATION

Four general methods were used in this study. Statistical data, especially the reports of the United States Census Bureau from 1850 to 1910, and that of 1920 so far as available in early April 1921, and of U. S. Department of Agriculture data were utilized. The object was to find the comparative average accomplishment of the farmers of New England and the United States over a series of years; and to get some idea as to possible greater farm production in New England.

Some critics seem to have based their assertions upon old or incomplete or biased data, and oppose all changes in existing conditions, not recognizing the impossibility and undesirability of retaining things as they were. The second method of study was by questioning some of the assertions of critics of New England agriculture as to bias or accuracy of data and then to note how certain economic forces have caused changes in New England agriculture. There have been changes; for instance, small grains are grown much less than at one time; the livestock industry has diminished to great extent. Causes underlying some of these changes were studied, such as the cheapening of production by specialization in districts well adapted to given crops; such as the fact that transportation of agricultural products for great distances is now economically possible.

The third step noted the great and increasing variety of modern demands for foodstuffs and materials, demands growing in both variety and amount. The question of adaptability of New England to meet many of these calls can be discussed and clearly demonstrated. Self-sufficiency of the district to supply its needs wholly will be considered.



THE HISTORY OF THE

The history of the world is a vast and intricate web of events, stretching across centuries and continents. It is a tapestry woven from the threads of human experience, from the dawn of civilization to the present day. The story is one of constant change, of triumph and tragedy, of hope and despair. It is a story that has shaped the course of human destiny, and it is a story that continues to unfold before our eyes.

In the beginning, the world was a chaotic and unordered mass. It was a time of darkness and ignorance, a time when the forces of nature were capricious and unpredictable. But then, the light of reason dawned. The first sparks of civilization were kindled, and the human race began its ascent towards a more ordered and civilized existence. The first cities were built, the first laws were made, and the first empires were established. The world was no longer a chaotic mass, but a complex and interconnected web of societies and cultures.

As the centuries passed, the world grew ever more complex and diverse. The great empires of antiquity rose and fell, their legacies preserved in the ruins of their cities and the stories of their deeds. The world was a stage upon which the great actors of history performed their parts, their lives and deaths shaping the course of the world. The world was a stage upon which the great actors of history performed their parts, their lives and deaths shaping the course of the world.

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Lastly was undertaken a justification of certain characteristics of New England farmers and their methods, such as the conservatism toward adoption of new methods; of the individualism of the average farmer in view of his nearness to markets and the difficulties of specialization and cooperation; of the use of particular agricultural methods which seem inefficient.

The first part of the document is a list of names and titles, including the names of the members of the committee and the names of the various departments and offices. The list is arranged in a columnar format, with the names of the members on the left and the names of the departments on the right.

The second part of the document is a list of names and titles, including the names of the members of the committee and the names of the various departments and offices. The list is arranged in a columnar format, with the names of the members on the left and the names of the departments on the right.

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### III. COMPARISON OF NEW ENGLAND AND MASSACHUSETTS PRODUCTION WITH NATIONAL PRODUCTION.

For the purposes of this study of production, the agencies of production, agricultural workers, work animals, farms, and productive animals will be considered first; then some of the principal field, tree and small fruit, and animal products will be taken up.

Data are limited for the most part to the sources found in the various census reports of the United States, beginning with that of 1850, concluding with that of 1910 in part, with 1920 in some cases where New England and Massachusetts material is now available. It had been intended to make use of data contained in the annual Yearbooks of the United States Department of Agriculture issued between 1910 and 1920, but examination of the figures proved it unwise to do so, especially with the idea of using the estimates for 1919 in comparison with Fourteenth Census figures now obtainable. Based as these figures are, upon percentual estimates in comparison with each previous year's figures and finally upon the returns of each census, each year's estimates add to the cumulative errors as census years recede, too often making wide variations. Consequently, though desirable, in many instances, no deductions can be had from figures later than 1910 or 1900.

#### Agencies of Agricultural Production

The total population of the United States in 1860 was 31,443,321 of which 3,241,138 persons, 10% were considered as engaged in agricultural pursuits; New England had 3,135,283 people with 297,294 or 9½% in agriculture; Massachusetts had 1,231,066 with 63,271, just above 5% in agriculture. Since then the total population had grown steadily to 92,174,515 in 1910 with 12,413,605 or 14% in agriculture. New England and Massachusetts population totals climbed to

THE HISTORY OF THE UNITED STATES

The history of the United States is a story of growth and change. It begins with the first settlers who came to the shores of North America. These early pioneers faced many hardships, but they persevered and built a new life for themselves. Over time, the colonies grew and became more independent. They developed their own laws and customs, and they began to look to themselves for leadership. This led to the American Revolution, a struggle for freedom and self-determination. The revolution was a turning point in the history of the United States. It established a new nation, one that was based on the principles of liberty and justice for all. The new nation faced many challenges, but it emerged as a powerful and influential country. The history of the United States is a story of a people who have always been on the move, seeking a better life and a better future. It is a story of a nation that has grown from a small group of settlers to a great and powerful country. The history of the United States is a story of a people who have always been on the move, seeking a better life and a better future. It is a story of a nation that has grown from a small group of settlers to a great and powerful country.

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POPULATION STATISTICS  
for the  
United States, New England and Massachusetts,  
1850 - 1920, by Census Years.

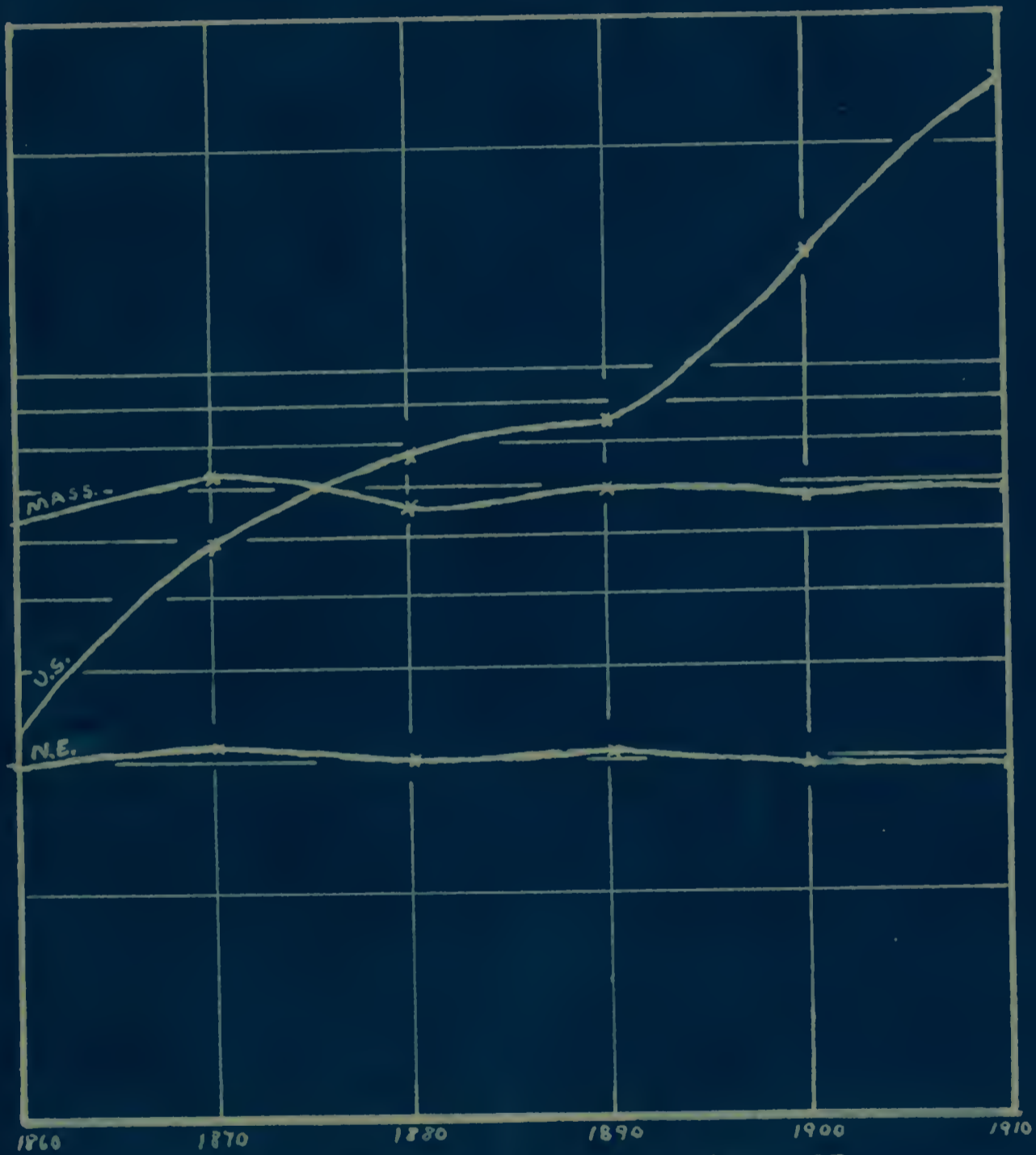
Year	United States	Total Population		References
		New England	Massachusetts	
1850	23,191,876	2,728,116	994,514	
1860	31,443,321	3,135,233	1,231,066	
1870	33,553,371	3,437,924	1,457,351	
1880	50,155,733	4,010,529	1,733,035	
1890	62,622,250	4,700,749	2,233,943	
1900	76,035,794	5,592,117	2,305,346	24/10
1910	92,174,515	6,552,631	3,366,416	32/30-31
1920	105,740,620	7, <sup>400,909</sup> <del>555,501</del>	3,852,356	140/P

Year	Persons Engaged in Agricultural Pursuits			References
	United States	New England	Massachusetts	
1860	3,241,133	297,294	63,271	33/P.656-79
1870	5,922,471	314,313	72,310	95/P.670-1
1880	7,680,493	301,315	64,973	100/P.716
1890	3,565,926	304,448	69,720	120/P.lixviii-lx
1900	10,433,219	287,469	66,551	130/P.lixv
1910	12,413,605	280,760	67,156	130/P.91
1920	10,636,826	221,162	49,839	

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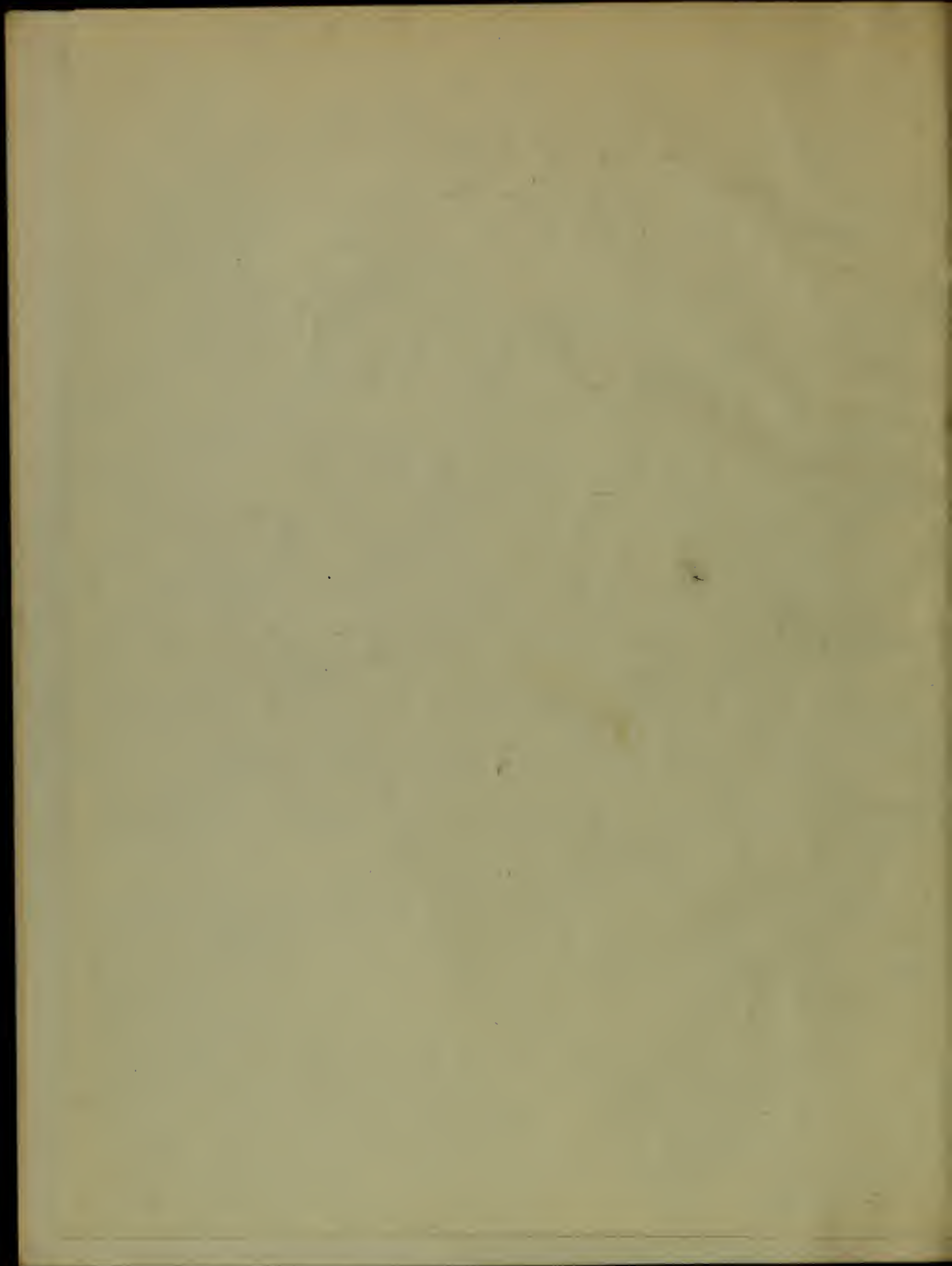
Year	Amount	Balance	Debit	Credit
1850	100.00	100.00		
1851	100.00	200.00		
1852	100.00	300.00		
1853	100.00	400.00		
1854	100.00	500.00		
1855	100.00	600.00		
1856	100.00	700.00		
1857	100.00	800.00		
1858	100.00	900.00		
1859	100.00	1000.00		
1860	100.00	1100.00		

Year	Amount	Balance	Debit	Credit
1850	100.00	100.00		
1851	100.00	200.00		
1852	100.00	300.00		
1853	100.00	400.00		
1854	100.00	500.00		
1855	100.00	600.00		
1856	100.00	700.00		
1857	100.00	800.00		
1858	100.00	900.00		
1859	100.00	1000.00		
1860	100.00	1100.00		



SHOWING RATE OF CHANGE IN NUMBER OF  
 PERSONS ENGAGED IN AGRICULTURAL PURSUITS IN THE  
 UNITED STATES, NEW ENGLAND AND MASSACHUSETTS  
 BY DECADES, 1860 TO 1910. CENSUS REPORT DATA.





PERCENTAGE of TOTAL POPULATION

ENGAGED in AGRICULTURAL PURSUITS

in the

United States, New England and Massachusetts,

1860 to 1910, by Decades.

Year	United States	New England	Massachusetts
1860	10.31	9.48	5.14
1870	15.35	9.02	4.99
1880	15.31	7.52	3.64
1890	13.67	6.47	3.11
1900	13.71	5.14	2.37
1910	13.46	4.28	1.99
1920	10.06	2.99	1.29

It is to be noted that the only increase in percentage of total population of the United States engaged in agricultural pursuits came between 1860 and 1870. Since then the percentage has declined steadily; in New England and Massachusetts the decline has been continuous since 1860.

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 DEPARTMENT OF CHEMISTRY  
 LABORATORY OF ORGANIC CHEMISTRY  
 5708 SOUTH DIVISION STREET  
 CHICAGO, ILLINOIS 60637

Compound	Yield (%)	mp (°C)	lit. mp (°C)
1a	85	102-103	102-103
1b	78	101-102	101-102
1c	82	103-104	103-104
1d	75	104-105	104-105
1e	80	105-106	105-106
1f	72	106-107	106-107
1g	88	107-108	107-108

The following table shows the results of the synthesis of compounds 1a-g. The yields and melting points are given in the table above. The literature melting points are also given for comparison. The compounds were purified by recrystallization from hexane/ethyl acetate.

6,552,881 and 3,355,418 respectively, of which 280,750 and 67,156 persons were in agriculture, - 4 $\frac{1}{2}$ % and 2% of the totals. Thus the proportion of the farming population, small at best at first, has dwindled to comparative insignificance so far as numbers are concerned. Moreover, the agricultural population in absolute numbers has in New England not held its own and in Massachusetts gained but little through the years. The inserted chart shows strikingly these changes in agricultural population.

The farms of the nation have increased in number somewhat as have its agricultural workers; those of New England and Massachusetts have varied irregularly, sometimes inversely, with only a small increase in numbers at best, and with this gain more than lost by 1930. The lands in these farms have shown somewhat the same changes in total acreages, with a drag in New England and a loss of 15% in Massachusetts in 1910, with consequent decreased average size of farms. In the same period the proportion of improved lands in farms of the United States has increased from 37% to 54% the total farm areas; but in New England the reverse has occurred, a drop from 61% to 37% taking place; Massachusetts dropped from 61% to 41%; between 1910 and 1930 both dropped to 36%. That this land lost from the acreage of improved land has gone back to scrub woodland seems to be generally believed. In a study of conditions in the Town of Billerica, Massachusetts, Mr. Farron H. Manning (35) mapped out very graphically the manner in which between 1853 and 1913 nearly 5,000 acres, almost a third of the town's area, has gone from tillage to sprout lands.

Work animals on farms may be considered to include mature horses or those two or more years of age; and oxen or steers of the same age are included. Here again numbers have risen for the nation. The farm worker of 1860 was using on the average 2.61 work animals;

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STATISTICS of FARMS  
in the  
United States, New England and Massachusetts.  
Censuses of 1850 - 1920.

Number of Farms

Year	United States	New England	Massachusetts	References
1850	1,449,073	167,651	34,069	
1860	2,044,077	183,942	35,601	
1870	2,659,935	180,649	26,500	
1880	4,008,907	207,232	38,406	
1890	4,564,641	189,961	34,374	
1900	5,737,372	191,888	37,715	12C/1633
1910	6,361,502	133,802	36,917	32/137
1920	<del>6,449,998</del>	156,564	32,001	26

All Land in Farms (Acres)

1850	293,560,614	18,367,453	5,356,012	
1860	407,212,538	20,110,922	3,338,724	
1870	407,735,041	19,569,863	2,730,283	
1880	536,081,835	21,483,772	3,359,079	
1890	623,213,619	19,755,584	2,998,282	
1900	833,591,774	20,543,999	3,147,064	12C/1692
1910	873,793,325	19,714,931	2,857,941	32/138, 139, 140
1920	<del>955,883,715</del>	16,990,642	2,494,477	26

Improved Land in Farms (Acres)

1850	113,032,614	11,150,594	2,133,436	
1860	163,110,720	12,215,771	2,155,512	
1870	188,921,099	11,997,540	1,736,221	
1880	234,771,042	13,143,466	2,128,311	
1890	357,616,755	10,733,930	1,657,024	
1900	414,498,487	8,134,403	1,292,132	12C/I 692
1910	473,451,750	7,254,904	1,164,501	32/133, 139, 140
1920	<del>503,073,007</del>	6,114,601	903,834	26

FEDERAL BUREAU OF INVESTIGATION  
 U. S. DEPARTMENT OF JUSTICE  
 MEMORANDUM FOR THE DIRECTOR, FBI  
 SUBJECT: [Illegible]

Section 1

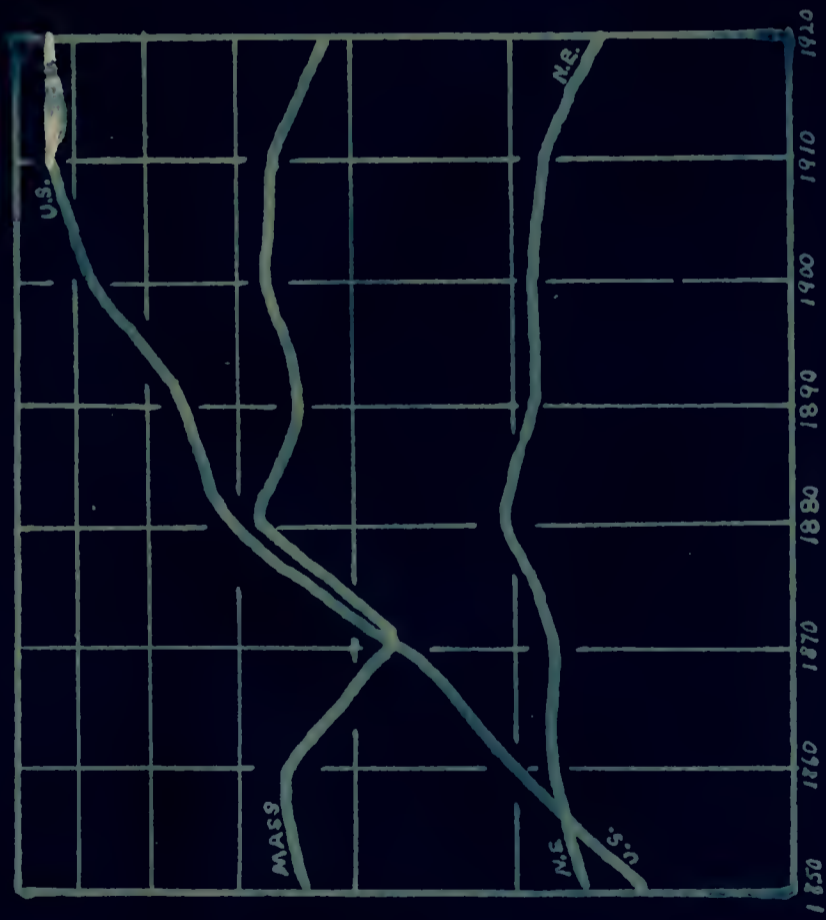
Case No.	Investigator	Date	Time	Location
100-100000	Mr. [Illegible]	10/1/50	10:00 AM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	11:00 AM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	12:00 PM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	1:00 PM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	2:00 PM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	3:00 PM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	4:00 PM	Washington, D.C.

Section 2

Case No.	Investigator	Date	Time	Location
100-100000	Mr. [Illegible]	10/1/50	5:00 PM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	6:00 PM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	7:00 PM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	8:00 PM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	9:00 PM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	10:00 PM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	11:00 PM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	12:00 AM	Washington, D.C.

Section 3

Case No.	Investigator	Date	Time	Location
100-100000	Mr. [Illegible]	10/1/50	1:00 AM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	2:00 AM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	3:00 AM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	4:00 AM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	5:00 AM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	6:00 AM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	7:00 AM	Washington, D.C.
100-100000	Mr. [Illegible]	10/1/50	8:00 AM	Washington, D.C.



NUMBERS OF FARMS.

SHOWING RATE OF CHANGES IN  
 NUMBERS OF FARMS AND  
 AGREGES OF IMPROVED FARM LANDS IN  
 THE UNITED STATES, NEW ENGLAND,  
 MASSACHUSETTS, 1850 TO 1920. CENSUS DATA.  
 BY DECADES.



IMPROVED FARM LANDS.





in 1910 he had the use of only 1.40 - a cut of 46% in his animal power. In New England the man of 1860 had the use of 1 1/2 animals; in 1910 his successor had 1 1/5, nearly a third less. Similarly, in Massachusetts the worker had 1 1/3 animals at first, later not quite the full use of one. This indicated more efficient use of animal power everywhere or more intensive man labor, or both.

Productive animals on farms, - cattle, poultry, sheep and swine, - all show increase in numbers in the country, with drops at 1870 in most cases, probably due to Civil War effects, as this factor is noted frequently in other data. New England has held her neat cattle well, losing only 8% of all, but milch cows gained over 45% up to 1900, dropping since then to just under 40% net in 1910 and 1920. The closer differentiation of classes of cattle used in the Fourteenth Census Report probably means greater gain than figures indicate, as many beef-type cows producing some milk had previously been included as milch cows. Massachusetts shows similar gain but greater loss, having now scarcely more cows than in 1860.

Poultry has increased less markedly as the tables show. Increase in flocks has been general up to 1910, more than doubling them for the United States; New England not quite doubling; and Massachusetts gaining 87%. Both New England and Massachusetts show decided losses since 1910. It is probably safe to attribute much of the loss to the disturbance of the poultry industry during the recent world war when grain and feed prices forced the killing of large numbers of birds, estimated at 70% in Massachusetts in 1917 (33). Poultry per agricultural worker increased on the whole up to 1910, - 46% for the nation, 103% in New England, 81% in Massachusetts.

While sheep increased from 21,723,230 to 39,644,048 in the United States from 1850 to 1910, in New England the number dropped from 2,257,583 to 308,443 and in Massachusetts from 185,651 to 22,699,

The first part of the document is a letter from the Secretary of the  
 Board of Education to the Board of Trustees of the University of  
 California, Berkeley, dated January 10, 1962. The letter discusses  
 the proposed changes in the structure of the Board of Education  
 and the Board of Trustees, and the need for a new Board of  
 Education to oversee the public schools in the state. The letter  
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STATISTICS ON HORSES  
of the  
United States, New England and Massachusetts.  
Censuses of 1850 - 1920.

→ Number of Saddle Horses

Year	United States	New England	Massachusetts	References
1850	4,336,719 1.00	212,274 1.00	12,216 1.00	
1860	6,249,174 1.44	258,992 1.22	47,736 1.13	
1870	7,149,370 1.65	269,303 1.22	11,509 .98	
1880	10,357,483 2.39	324,066 1.53	59,629 1.41	
1890	14,969,467 3.45	563,349 1.74	63,636 1.51	110/85
1900	15,505,966 3.58	365,045 1.72	71,937 1.70	
1910	17,430,418 4.02	343,826 1.62	63,161 1.50	131/873
1920	17,220,900 3.97	292,236 1.38	43,965 1.16	
1925	15,312,584 3.53	255,234 1.20	42,773 1.02	

Number of Working Oxen

1850	1,700,744	293,235	46,611	
1860	2,354,911	267,960	39,221	
1870	1,319,271	103,742	24,430	
1880	993,341	137,531	14,571	
1890	1,117,494	111,461	9,531	110/85
1900		65,435	3,673	120/1283

for The 1900 census figures give 'steers' of various ages; the number of steers 2 years of age or older are probably closely comparable with those of working oxen in New England and are so used here; but for the United States as a whole the figures are not comparable.

Number of Farm Animals

(In part, the sum of the above tables.)

1850	6,037,463	505,559	33,327
1860	8,604,035	626,952	39,007
1870	8,464,641	453,110	63,469
1880	11,351,339	461,647	74,200
1890	16,066,961	430,310	73,469
1900	15,505,966	365,045	71,937
1910#	17,430,418	343,826	63,161
1920#	17,220,418	292,236	43,965

# Saddle horses only.

THE UNITED STATES OF AMERICA  
 DEPARTMENT OF THE ARMY  
 OFFICE OF THE ADJUTANT GENERAL  
 HEADQUARTERS, U.S. ARMY  
 WASHINGTON, D.C.

PROPERTY OF THE U.S. ARMY

Quantity	Description	Unit	Location	Remarks
100	100	100	100	100
200	200	200	200	200
300	300	300	300	300
400	400	400	400	400
500	500	500	500	500
600	600	600	600	600
700	700	700	700	700
800	800	800	800	800
900	900	900	900	900
1000	1000	1000	1000	1000

PROPERTY OF THE U.S. ARMY

100	100	100	100	100
200	200	200	200	200
300	300	300	300	300
400	400	400	400	400
500	500	500	500	500
600	600	600	600	600
700	700	700	700	700
800	800	800	800	800
900	900	900	900	900
1000	1000	1000	1000	1000

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PROPERTY OF THE U.S. ARMY

100	100	100	100	100
200	200	200	200	200
300	300	300	300	300
400	400	400	400	400
500	500	500	500	500
600	600	600	600	600
700	700	700	700	700
800	800	800	800	800
900	900	900	900	900
1000	1000	1000	1000	1000

THE ADJUTANT GENERAL  
 DEPARTMENT OF THE ARMY  
 WASHINGTON, D.C.

AGRICULTURAL LIVESTOCK ON FARMS.

Number of Certain Animals  
in the

United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1850 - 1919.)

UNITED STATES.

Year	Work Animals		Unit Total Population
	Agricultural Worker.		
1860	2.61		.27
1870	1.43		.22
1880	1.48		.23
1890	1.96		.25
1900*	1.49		.20
1910*	1.40		.18
1920	1.52		.17

NEW ENGLAND.

1860	1.77		.17
1870	1.46		.13
1880	1.53		.12
1890	1.52		.10
1900*	1.27		.07
1910*	1.22		.05
1920*	1.32		.04

MASSACHUSETTS.

1860	1.36		.07
1870	.90		.04
1880	1.14		.04
1890	1.05		.03
1900*	1.03		.03
1910*	.94		.02
1920*	.98		.01

\* Mature horses only considered.

EXHIBIT A

1910

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AGRICULTURAL LIVESTOCK ON FARMS.

Number of Certain Animals  
in the

United States, New England and Massachusetts  
(Calculated from U. S. Census Reports, 1850 - 1919.)

U N I T E D S T A T E S.

Year	Horses (Mature)		<u>Neat Cattle</u>		<u>Swine</u>	
	Agric'l. Worker	Unit Total Population	Agricul. Worker.	Unit Total Population	Agric'l. Worker	Unit Total Population
1850	--	.19	--	.76	--	1.31
1860	1.93	.20	7.90	.81	10.34	1.07
1870	1.21	.18	4.02	.62	4.24	.65
1880	1.35	.27	4.68	.72	6.22	.95
1890	1.75	.24	6.00	.82	6.70	.92
1900	1.49	.20	5.02	.69	6.02	.83
1910	1.40	.19	4.35	.59	4.69	.63
1920	--	--	--	--	--	--

N E W E N G L A N D

1850	--	.08	--	.54	--	.13
1860	.87	.08	5.29	.50	1.10	.10
1870	.82	.07	4.31	.39	.77	.07
1880	1.07	.08	4.98	.37	1.20	.09
1890	1.21	.08	4.64	.30	1.34	.09
1900	1.27	.07	4.58	.24	1.26	.06
1910	1.22	.05	4.16	.18	1.41	.06
1920	--	.04	--	.17	--	.05

M A S S A C H U S E T T S

1850	--	.05	--	.26	--	.08
1860	.76	.04	4.42	.23	1.17	.06
1870	.56	.03	3.00	.15	.68	.03
1880	.92	.03	4.03	.15	1.24	.05
1890	.86	.03	3.67	.11	1.31	.04
1900	1.08	.03	3.64	.09	1.19	.03
1910	.94	.02	3.38	.07	1.53	.03
1920	--	.01	--	.06	--	.03



AGRICULTURAL LITERATURE IN YAMBO

Report of the Director  
in 1914

Printed at the Government Press, Singapore  
(Published by the Government Printer, 1914 - 1915)

TABLE

Year	Total		Native		European	
	Number	Value	Number	Value	Number	Value
1914	1,200	1,200	1,200	1,200	-	-
1913	1,100	1,100	1,100	1,100	-	-
1912	1,000	1,000	1,000	1,000	-	-
1911	900	900	900	900	-	-
1910	800	800	800	800	-	-
1909	700	700	700	700	-	-
1908	600	600	600	600	-	-
1907	500	500	500	500	-	-
1906	400	400	400	400	-	-
1905	300	300	300	300	-	-
1904	200	200	200	200	-	-
1903	100	100	100	100	-	-
1902	50	50	50	50	-	-
1901	20	20	20	20	-	-
1900	10	10	10	10	-	-
1899	5	5	5	5	-	-
1898	2	2	2	2	-	-
1897	1	1	1	1	-	-
1896	-	-	-	-	-	-
1895	-	-	-	-	-	-
1894	-	-	-	-	-	-
1893	-	-	-	-	-	-
1892	-	-	-	-	-	-
1891	-	-	-	-	-	-
1890	-	-	-	-	-	-
1889	-	-	-	-	-	-
1888	-	-	-	-	-	-
1887	-	-	-	-	-	-
1886	-	-	-	-	-	-
1885	-	-	-	-	-	-
1884	-	-	-	-	-	-
1883	-	-	-	-	-	-
1882	-	-	-	-	-	-
1881	-	-	-	-	-	-
1880	-	-	-	-	-	-
1879	-	-	-	-	-	-
1878	-	-	-	-	-	-
1877	-	-	-	-	-	-
1876	-	-	-	-	-	-
1875	-	-	-	-	-	-
1874	-	-	-	-	-	-
1873	-	-	-	-	-	-
1872	-	-	-	-	-	-
1871	-	-	-	-	-	-
1870	-	-	-	-	-	-
1869	-	-	-	-	-	-
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1860	-	-	-	-	-	-
1859	-	-	-	-	-	-
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1814	-	-	-	-	-	-
1813	-	-	-	-	-	-
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1811	-	-	-	-	-	-
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1809	-	-	-	-	-	-
1808	-	-	-	-	-	-
1807	-	-	-	-	-	-
1806	-	-	-	-	-	-
1805	-	-	-	-	-	-
1804	-	-	-	-	-	-
1803	-	-	-	-	-	-
1802	-	-	-	-	-	-
1801	-	-	-	-	-	-
1800	-	-	-	-	-	-

NUMBERS of SPECIFIED CLASSES of LIVESTOCK  
on Farms in the  
United States, New England and Massachusetts.  
(Censuses of 1850 - 1920)

Milch Cows

Year	United States	New England	Massachusetts	References
1850	6,335,794 1.00	603,219 1.00	135,099 1.00	
1860	8,585,735 1.34	679,930 1.12	144,492 1.11	
1870	8,935,332 1.40	642,593 1.06	114,771 .88	
1880	12,443,120 1.95	746,656 1.23	155,435 1.16	
1890	16,511,950 2.57	822,001 1.35	172,046 1.32	
1900	17,135,633 2.68	893,473 1.47	134,502 1.42	24/53, 59
1910	20,625,432 3.13	1,341,693 2.23	171,936 1.32	136/352
1920	19,675,297 3.08	842,923 1.39	140,331 1.13	25
1925	17,622,817 2.76	791,711 1.30	144,578 1.11	

Dairy cows 2 years and over.

Beast Cattle (Over 1 Year)

1850	17,773,907	1,469,023	359,994	
1860	23,629,019	1,572,776	279,614	
1870	23,520,608	1,353,137	319,052	
1880	32,925,511	1,503,452	361,051	
1890	51,363,572	1,411,852	356,123	
1900	52,403,323	1,316,544	342,323	24/53, 54
1910	53,997,327	1,163,523	226,345	136/361
1920	51,107,959	1,222,963	214,276	22

Poultry

1850	125,507,322 1.00	4,033,743 1.00	962,903 1.00	
1890	235,609,440 2.28	6,655,066 1.63	1,703,332 1.77	
1900	250,623,114 2.00	6,606,246 1.62	1,630,693 1.75	24/74
1910	295,330,190 2.36	7,703,636 1.89	1,793,353 1.87	136/361
1920	359,537,127 2.86	5,303,507 1.42	1,455,193 1.51	27
1925	409,272,349 3.26	8,137,168 1.99	2,029,817 2.11	

Chickens only; other figures are for all poultry, chickens constituting practically all.



NUMBERS of SPECIFIED CLASSES of LIVESTOCK  
 on Farms in the  
 United States, New England and Massachusetts.  
 (Censuses of 1850 - 1925)

Sheep of Shearing Age  
 (1 Year or over)

Year	United States	New England	Massachusetts	Differences
1850	21,723,220 1.00	2,257,533 1.00	133,651 1.00	
1860	22,471,275 1.03	1,779,670 .77	114,329 .61	
1870	28,477,951 1.31	1,450,155 .64	78,560 .42	
1880	35,192,074 1.62	1,362,234 .60	67,979 .36	
1890	35,935,364 1.65	936,532 .41	61,438 .27	
1900	39,352,967 1.83	563,217 .25	33,369 .18	24/66, 67
1910	39,644,046 1.82	306,443 .14	22,699 .12	130/500
1920	26,107,701 1.20	191,691 .08	14,132 .07	22
1925	26,392,385 1.21	122,257 .05	7,558 .04	

Wine

1850	30,354,213 1.00	361,431 1.00	31,119 1.00	
1860	33,512,367 1.10	326,176 .90	73,943 .91	
1870	25,134,569 .83	241,000 .67	49,173 .61	
1880	47,681,700 1.57	362,133 1.00	30,123 .99	
1890	57,409,583 1.89	407,590 1.13	91,433 1.13	
1900	62,863,041 2.07	362,199 1.00	73,925 .77	24/02
1910	53,135,676 1.92	396,642 1.10	103,013 1.27	130/389
1920	59,346,409 1.96	333,752 1.06	104,192 1.28	22
1925	50,853,526 1.68	193,240 .53	57,821 .71	

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AGRICULTURAL LIVESTOCK ON FARMS.

Number of Certain Animals  
in the  
United States, New England and Massachusetts  
(Calculated from U. S. Census Reports, 1850 - 1919.)

UNITED STATES

Year	Sheep (of shearing age)		Poultry	
	Agricultural Worker	Unit Total Population	Agricultural Worker	Unit Total Population.
1860	6.93	.71	--	--
1870	4.81	.74	--	--
1880	4.59	.70	16.36	2.50
1890	4.20	.57	33.34	4.56
1900	3.82	.52	24.01	3.29
1910	3.19	.43	23.84	3.21
1920	--	--	--	--

NEW ENGLAND

1860	5.99	.57	--	--
1870	4.61	.42	--	--
1880	4.51	.34	13.55	1.02
1890	3.08	.19	21.96	1.42
1900	1.96	.10	22.98	1.18
1910	1.09	.05	27.45	1.18
1920	--	.03	--	.79*

MASSACHUSETTS

1860	1.81	.09	--	--
1870	1.08	.05	--	--
1880	1.05	.04	14.82	.54
1890	.74	.02	24.50	.76
1900	.51	.01	25.25	.60
1910	.34	.007	26.78	.53
1920	--	.004	--	.46*

\* Chickens.

AGRICULTURAL EXPENDITURES IN 1932

REPORT OF THE COMMISSIONER OF AGRICULTURE  
 STATE OF CALIFORNIA  
 OFFICE OF THE COMMISSIONER OF AGRICULTURE  
 SACRAMENTO, CALIFORNIA  
 (Published by the State Printer, 1932)

TABLE 1

Year	Total Expenditures		Per Acre	
	Actual	Estimated	Actual	Estimated
1932	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1931	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1930	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1929	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1928	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1927	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1926	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1925	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1924	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1923	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1922	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1921	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1920	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1919	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1918	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1917	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1916	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1915	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1914	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1913	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1912	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1911	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1910	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1909	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1908	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1907	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1906	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1905	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1904	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1903	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1902	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1901	1,000,000,000	1,000,000,000	100,000,000	100,000,000
1900	1,000,000,000	1,000,000,000	100,000,000	100,000,000

\* Estimated

a decrease of 87% in each case; since 1910 New England and Massachusetts have each lost 37% of their sheep. The agricultural worker in the United States has less than half the sheep he had in 1860; in New England and Massachusetts farmers have less than one-fifth as many sheep as they had at that time. The loss means much more to New England than to Massachusetts since Massachusetts at best had not a sheep industry, as shown by each farm worker in New England having six sheep on the average; in Massachusetts it was less than one-third as many.

As to swine, the number of animals in the United States has slightly more than doubled only to lose slightly at 1910; New England's number has varied greatly, finally increasing almost 10%, with a small loss up to 1900; Massachusetts has, on the whole, bettered that record with an increase of 27% by 1910 and a slight gain since that time. There were in 1860 over ten animals per worker in the nation, and one and one-seventh per worker in New England and Massachusetts. In 1910 the former had only two-fifths as many as at first, while the latter had gained one-fourth.

The values of the farm property in the United States have climbed steadily, those of the nation out of all proportion to the older settled sections as new lands were developed. The average value per farm, then, is better used in forming an idea of the usual farm investment. The investment of 1850 for the United States was \$2,738; for New England a bit less, \$2,596; for Massachusetts decidedly more \$3,579. The national average investment was practically \$3,900 just before the Civil War, declining until the '80's then rising slowly to 1900 and rapidly thereafter, in 1910 having reached \$6,444, two and a third times its starting point. New England values rose steadily, suffering only a slight loss in the '80's, then much more rapidly since 1900. Massachusetts values followed the same general course, with a mere check in place



The first part of the paper is devoted to a general discussion of the  
 subject. It is shown that the problem is of great importance in  
 the theory of differential equations. The author then proceeds to  
 give a detailed account of the various methods which have been  
 employed for its solution. In particular, he discusses the method  
 of variation of parameters, the method of undetermined coefficients,  
 and the method of Laplace transforms. He also gives a number of  
 examples to illustrate the application of these methods. The paper  
 concludes with a summary of the results obtained and a list of  
 references.

VALUE of ALL FARM PROPERTY  
in the  
United States, New England and Massachusetts.  
Censuses of 1850 - 1920.

Year	United States	New England	Massachusetts	Differences
1850	3,967,343,530	435,154,325	121,935,641	
1860	7,930,493,063	560,467,417	139,333,690	
1870	8,944,857,749	606,353,253	110,786,313	
1880	12,130,501,533	671,346,053	164,233,956	
1890	16,032,267,639	535,267,317	147,677,402	
1900	29,439,991,164	679,645,900	132,646,704	126/1 694
1910	40,991,449,090	367,240,457	226,474,035	136/73
1920	77,924,100,338	1,175,619,504	300,471,743	26

Average Farm Investment

(Value of all Farm Property divided by Number of Farms)

1850	2,733	2,396	3,579
1860	3,904	3,047	3,929
1870	3,363	3,135	4,131
1880	3,033	3,212	4,273
1890	3,523	3,031	4,296
1900	3,563	3,333	4,542
1910	6,444	4,593	6,135
1920	12,084	7,431	9,399

Value of Farm Implements and Machinery

1850	151,537,633	12,537,290	3,239,534	
1860	246,113,141	16,463,564	3,394,393	
1870	270,913,673	18,042,440	4,000,703	
1880	406,320,955	22,096,563	5,134,537	
1890	494,247,467	25,733,233	5,933,340	
1900	749,775,970	36,551,320	6,323,350	126/1 694
1910	1,205,149,733	50,793,326	11,503,394	136/73
1920	3,594,792,928	92,337,525	19,309,755	26

FEDERAL BUREAU OF INVESTIGATION  
 UNITED STATES DEPARTMENT OF JUSTICE  
 MEMORANDUM FOR THE DIRECTOR

Item	Description	Quantity	Unit Price	Total
1	...	...	...	...
2	...	...	...	...
3	...	...	...	...
4	...	...	...	...
5	...	...	...	...
6	...	...	...	...
7	...	...	...	...
8	...	...	...	...
9	...	...	...	...
10	...	...	...	...
			NET 981,482.73	

FEDERAL BUREAU OF INVESTIGATION  
 UNITED STATES DEPARTMENT OF JUSTICE  
 MEMORANDUM FOR THE DIRECTOR

Item	Description	Quantity	Unit Price	Total
1	...	...	...	...
2	...	...	...	...
3	...	...	...	...
4	...	...	...	...
5	...	...	...	...
6	...	...	...	...
7	...	...	...	...
8	...	...	...	...
9	...	...	...	...
10	...	...	...	...
			NET 1,863.14	

FEDERAL BUREAU OF INVESTIGATION  
 UNITED STATES DEPARTMENT OF JUSTICE  
 MEMORANDUM FOR THE DIRECTOR

Item	Description	Quantity	Unit Price	Total
1	...	...	...	...
2	...	...	...	...
3	...	...	...	...
4	...	...	...	...
5	...	...	...	...
6	...	...	...	...
7	...	...	...	...
8	...	...	...	...
9	...	...	...	...
10	...	...	...	...
			NET 377,482.14	

TOTAL and AVERAGE VALUES PER FARM  
of FARM IMPLEMENTS, LAND and BUILDINGS and LIVESTOCK;  
PERCENT of TOTAL VALUE of FARM PROPERTY REPRESENTED by EACH  
in the  
United States, New England and Massachusetts  
(U.S. Census Data, 1850 - 1920)

Average Value of Farm Implements and Machinery Per Farm

Year	United States	New England	Massachusetts	References
1850	105	177	294	
1860	120	90	109	
1870	102	100	151	
1880	101	107	134	
1890	103	125	173	
1900	133	190	234	13C/1699
1910	199	269	313	13C/91, 92
1920	557	590	605	26

Value of Farm Lands and Buildings

1850	23,271,575,420	372,343,543	102,073,317	
1860	6,645,045,007	476,303,337	123,255,943	
1870	7,444,054,462	463,133,979	93,146,227	
1880	15,197,096,776	530,681,413	146,197,415	
1890	13,279,252,649	439,570,173	127,533,234	
1900	16,614,647,491	523,267,743	153,019,290	
1910	31,301,125,697	713,544,303	194,163,765	13C/84, 85
1920	66,315,002,502	917,235,534	247,537,331	26

Average Value of Farm Lands and Buildings Per Farm

1850	\$ 2,253	\$ 2,221	\$ 3,202	
1860	3,251	2,569	3,462	
1870	2,799	2,591	3,515	
1880	2,544	2,802	3,807	
1890	2,900	2,577	3,710	
1900	2,396	2,753	4,190	
1910	5,471	3,306	5,260	13C/91, 92
1920	10,284	5,354	7,737	26

1875  
 THE UNIVERSITY OF CHICAGO  
 LIBRARY  
 540 EAST 57TH STREET  
 CHICAGO, ILL. 60637

THE UNIVERSITY OF CHICAGO LIBRARY

1875	1875	1875	1875	1875
1875	1875	1875	1875	1875

THE UNIVERSITY OF CHICAGO LIBRARY

1875	1875	1875	1875	1875
1875	1875	1875	1875	1875

THE UNIVERSITY OF CHICAGO LIBRARY

1875	1875	1875	1875	1875
1875	1875	1875	1875	1875

**TOTAL and AVERAGE VALUE PER FARM**  
**of FARM IMPLEMENTS, LAND and BUILDINGS and LIVESTOCK;**  
**PERCENT of TOTAL VALUE of FARM PROPERTY REPRESENTED by EACH**  
**in the**  
**United States, New England and Massachusetts.**  
**(U.S. Census Data, 1850 - 1920)**

Value of Farm Livestock

Year	United States	New England	Massachusetts	References
1850	\$ 544,180,516	49,863,692	9,647,710	
1860	1,039,329,915	68,695,016	12,737,744	
1870	1,229,839,609	80,177,526	13,639,333	
1880	1,576,334,707	69,063,077	12,957,004	
1890	2,308,767,573	71,914,351	14,200,178	
1900	3,075,477,703	74,826,332	15,793,464	
1910	4,925,173,610	97,896,323	20,741,366	130/34, 35
1920	8,013,324,808	163,163,435	33,524,157	26

Average Value of Farm Live Stock per Farm

1850	\$ 376	\$ 297	\$ 283	
1860	533	373	353	
1870	462	444	515	
1880	393	333	337	
1890	506	379	413	
1900	536	390	419	
1910	774	519	562	130/91, 92
1920	1243	1,042	1,043	26

**Percent of Total Value of Farm Property Represented by**  
**Land and Buildings    Implements & Machinery    Livestock**

Year	Land and Buildings			Implements & Machinery			Livestock			References
	U.S.	N.E.	Mass.	U.S.	N.E.	Mass.	U.S.	N.E.	Mass.	
1850	82.5	85.6	80.5	3.3	3.0	2.6	13.7	11.5	7.9	
1860	83.3	84.3	81.1	3.1	2.9	2.3	13.6	12.3	9.1	
1870	83.2	82.7	84.1	3.0	3.2	3.6	13.7	14.2	12.3	
1880	83.7	86.4	89.0	3.3	3.3	3.1	12.9	10.3	7.9	
1890	82.6	83.7	86.4	3.1	4.1	4.0	14.4	12.3	9.6	
1900	81.3	82.6	86.5	3.7	3.7	4.3	15.0	11.7	8.6	
1910	84.9	82.9	85.7	3.1	3.9	5.1	12.0	11.3	9.2	130/91, 2
1920	85.1	73.0	83.4	4.6	7.6	6.3	10.3	13.9	11.2	

THE UNITED STATES DEPARTMENT OF THE INTERIOR  
 GEOLOGICAL SURVEY  
 WATER RESOURCES DIVISION  
 SURFACE WATER BRANCH  
 RAINFALL RECORDS  
 (1895-1900)

STATION NO. 1000

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1895	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	38.2
1896	1.1	1.4	1.7	2.0	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4	37.0
1897	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	39.4
1898	1.4	1.7	2.0	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4	4.7	40.6
1899	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	41.8
1900	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	43.0

STATION NO. 1001

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1895	1.1	1.4	1.7	2.0	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4	37.0
1896	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	38.2
1897	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	39.4
1898	1.4	1.7	2.0	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4	4.7	40.6
1899	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	41.8
1900	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.9	43.0

STATION NO. 1002

Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
1895	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.7	4.0	4.3	36.8
1896	1.1	1.4	1.7	2.0	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4	37.0
1897	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	38.2
1898	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.4	3.7	4.0	4.3	4.6	39.4
1899	1.4	1.7	2.0	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4	4.7	40.6
1900	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	41.8

of actual loss. It is to be noted that national values have always been greater than New England's, but never equal to those of Massachusetts until 1910, then being nearly 5% greater. Figures of 1920 national farm values are not announced, but New England and Massachusetts values show rises of over 50%, part of which is doubtless due to recent inflation of prices generally.

Values of farm improvements, equipment and livestock have in general, followed similar courses, the percentage of each to the total farm property value changing relatively little. Land and buildings or improvements constitute at least 81% of the farm investment for the United States. The valuations are somewhat higher for New England and still higher for Massachusetts. Livestock values make up two-thirds of the remainder and are higher for the United States and New England than for Massachusetts, though in actual amount the Massachusetts farmer has a heavier investment than his New England neighbor outside the state. The percentage of investment in implements is small; that of the United States has always been between 3% and 4%; that of New England has risen from 3% to 5.9% in 1910 and 7.6% in 1920; that of Massachusetts, with her higher land investments has decidedly larger actual value, but somewhat smaller percentual value. Since 1910 New England and Massachusetts have both increased the percentages of investment in livestock and implements at the expense of that of land.

The acreage of improved farm lands per agricultural worker and per work animal has varied decidedly, the man always having more than the animal to care for except in Massachusetts where the difference of late years has not been marked and where in 1870 and 1910 the animal had more acres to work than his master, due to the more intensive use of man labor. The worker of the nation as a whole has averaged close to 40 acres each; the worker of New England averaging



The first part of the report deals with the general situation of the country and the progress of the war. It is followed by a detailed account of the military operations in the various theatres of war. The author then discusses the political and economic conditions of the country and the impact of the war on the population. The report concludes with a summary of the main findings and a list of recommendations.

The second part of the report is a detailed account of the military operations in the various theatres of war. It covers the campaigns in the East, the West, and the Mediterranean. The author provides a comprehensive overview of the military strategy and tactics employed by the various forces. He also discusses the role of the air force and the navy in the war.

The third part of the report discusses the political and economic conditions of the country. It examines the impact of the war on the economy and the political situation. The author analyzes the policies of the government and the role of the various political parties. He also discusses the social conditions of the country and the impact of the war on the population.

The fourth part of the report is a summary of the main findings and a list of recommendations. The author concludes that the war has had a profound impact on the country and that the government must take steps to address the economic and political challenges that have arisen. He recommends that the government should focus on rebuilding the economy and strengthening the political system.

INCREASE OF IMPROVED BARS LAID  
PER AGRICULTURAL WORKMAN and PER ANIMAL  
in the  
United States, New England and Massachusetts

(Calculated from U.S. Census Reports, 1850 - 1920.)

Year	United States		New England		Massachusetts	
	Man	Animal	Man	Animal	Man	Animal
1850	- -	13.7	- -	32.1	- -	24.0
1860	50.3	19.2	41.1	23.2	34.1	25.1
1870	51.9	22.3	33.1	26.2	23.3	25.5
1880	37.1	25.1	43.6	23.5	32.6	23.7
1890	41.3	22.2	35.3	24.4	23.8	22.6
1900	39.7	26.7	23.3	22.2	19.4	13.0
1910	33.1	27.2	25.8	21.1	17.3	13.4
1920	47.3	29.2	29.9	20.9	18.2	13.6

THE  
 NATIONAL BUREAU OF STANDARDS  
 AND METROLOGY  
 DEPARTMENT OF COMMERCE  
 WASHINGTON, D. C. 20535

Material	Quantity	Unit	Price	Total	Notes
Steel	100	lb	0.15	15.00	
Aluminum	50	lb	0.25	12.50	
Copper	25	lb	0.40	10.00	
Zinc	15	lb	0.60	9.00	
Iron	30	lb	0.30	9.00	
Lead	10	lb	0.90	9.00	
Brass	5	lb	1.80	9.00	
Gold	1	oz	9.00	9.00	

41.1 acres first half of the period considered now averages scarce two-thirds of that amount, while the farm worker of Massachusetts cared for about three-quarters as much as the New Englander. The animal worker of the United States has almost continuously had more and more acreage to work - in this age of improvements in machinery; in New England and Massachusetts this was true up to the 80's, but since then there has been a decline, more marked in this state than New England, indicating more extensive use of man labor. The use of tractors has hardly begun to displace farm horses to any appreciable degree. The Fourteenth Census has asked the number of tractors and automobiles and motor trucks on farms for the first time and these figures may shed some light upon this subject.

To sum up, from 1860 to 1910 total populations have increased as has also percentage of agricultural population of the nation; but the latter merely holds its own in the New England states.

From 1850 to 1920 farms have increased or held their numbers correspondingly, but with a notable decrease in area of the whole and striking decrease of improved lands in the New England states. From 1850 to 1910 farm investments have increased with little change in relative values of the land and improvements, equipment and livestock.

Work animals per worker show nation-wide reduction in numbers from 1860 to 1910.

From 1850 to 1910 all productive animals increased in numbers in the nation except that from 1900 to 1910 sheep and swine lost slightly.

From 1850 to 1920 neat cattle show losses in numbers in New England, while milch cows do not; the sheep in New England and Massachusetts have dwindled to insignificance:

New England swine hold their own somewhat better, especially in

The first part of the report deals with the general situation of the country and the progress of the work done during the year. It is followed by a detailed account of the various projects and schemes which have been carried out, and a summary of the results achieved. The report concludes with a statement of the views of the Committee on the progress made and the prospects for the future.

The Committee has been pleased to note the progress made during the year, and particularly the success of the various projects and schemes which have been carried out. It is confident that the work done during the year will have a beneficial effect on the country, and that the progress made will be maintained in the future.

The Committee has also been pleased to note the success of the various projects and schemes which have been carried out, and particularly the success of the various projects and schemes which have been carried out. It is confident that the work done during the year will have a beneficial effect on the country, and that the progress made will be maintained in the future.

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Massachusetts; in the nation their numbers have doubled.

Of all farm animals, poultry alone have gained everywhere in numbers per farm worker, except that swine in New England as a whole have also increased.

The first part of the report is devoted to a general  
 description of the country and its resources.  
 It is followed by a detailed account of the  
 various industries and occupations of the  
 people. The report concludes with a summary  
 of the principal facts and a list of the  
 principal places mentioned.

Name	Latitude	Longitude	Population	Remarks
London	51° 30' N	0° 07' W	1,000,000	Capital of Great Britain
Paris	48° 50' N	2° 10' E	2,000,000	Capital of France
Bombay	18° 54' N	72° 49' E	1,000,000	Principal port of India
Calcutta	22° 32' N	88° 26' E	1,500,000	Principal port of Bengal
Canton	23° 05' N	113° 28' E	1,000,000	Principal port of China
Manila	14° 35' N	121° 02' E	500,000	Principal port of the Philippines
Batavia	6° 10' S	106° 48' E	400,000	Principal port of the East Indies
Singapore	1° 17' N	103° 46' E	200,000	Principal port of the Malay Peninsula
Amoy	24° 30' N	118° 05' E	1,000,000	Principal port of the Chinese coast
Swatow	23° 30' N	115° 30' E	1,000,000	Principal port of the Chinese coast
Hankow	30° 30' N	114° 15' E	1,000,000	Principal port of the Chinese coast
Peking	39° 55' N	116° 28' E	1,000,000	Capital of China
Tientsin	39° 05' N	117° 10' E	1,000,000	Principal port of the Chinese coast
Yokohama	35° 30' N	139° 40' E	1,000,000	Principal port of Japan
Kobe	34° 40' N	135° 10' E	1,000,000	Principal port of Japan
Osaka	34° 40' N	135° 40' E	1,000,000	Principal port of Japan
Kyoto	35° 00' N	135° 40' E	1,000,000	Principal city of Japan
Edo	35° 40' N	139° 40' E	1,000,000	Principal city of Japan
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Osaka	34° 40' N	135° 40' E	1,000,000	Principal port of Japan
Kyoto	35° 00' N	135° 40' E	1,000,000	Principal city of Japan
Edo	35° 40' N	139° 40' E	1,000,000	Principal city of Japan

Agricultural Products Considered

Corn, wheat, oats, barley, rye, buckwheat, potatoes, hay, tobacco and cotton comprise nearly 90% of the acreage of all field crops grown in the United States (37) and their average value is close to that of the aggregate of all crops. To these leading field crops are here added dry peas and beans; white or Irish potatoes only are considered, omitting sweet potatoes, as these are not often grown in New England.

Apples, peaches and pears are the important orchard products of New England; maple sugar and syrup are tree products, also. Small fruits are represented by strawberries, the most largely produced of such fruits; by cranberries, New England's biggest berry crop; blackberries, currants, gooseberries and raspberries are grouped, being important only in the aggregate.

Animal products considered are milk, butter and cheese made on farms, eggs and wool.

Tables showing productions of each crop as reported at the various census periods are given; acreage or number of bearing trees of crops is given; average yields of field crops per acre are presented with the number of farms reporting them, and animal products and some of the small fruits. From these are calculated tables of production for some of the various factors of production and per capita of total (or consuming) population, namely, per unit of total population, per acre improved farm land, per work animal, per agricultural worker, per farm (average for all farms and average for farms reporting the product) and per animal producing the product or its basic raw material.



ANNUAL REPORT

The Board of Directors has the honor to acknowledge the assistance of the various departments in the preparation of this report. The Board is pleased to report that the year has been a successful one for the company. The financial results have been satisfactory and the operations have been carried out in a most efficient manner. The Board is confident that the future holds many opportunities for growth and development. The Board is also pleased to report that the company has been able to maintain its high standards of quality and service to our customers. The Board is grateful to the management and staff for their hard work and dedication throughout the year. The Board is confident that the company is well positioned for the future and is committed to continued growth and success.

The best measure of agricultural production is that of production per man. The others are often used for various purposes. The tables of production, acreage, yield and number of farms reporting need little comment; those derived from them will need more. The products will be considered singly, by groups and in the aggregate.

Statistics as to crop acreage are available from 1879 on; for number of farms reporting, from 1899 on only, not long enough to warrant conclusions from them. Many bits of data for 1919 and 1920 available for Massachusetts are not yet available for all New England or for the United States.

The small grains,- barley, buckwheat, oats, dry peas and beans, rye and wheat,- all show increase in production in the nation, while all show heavy loss in New England and Massachusetts. That great American grain crop, corn or maize shows similar changes in volume of yield but with a tendency to regain part of its loss in Massachusetts. Potatoes have diminished half in this state, but gained in New England as a whole and in the United States. Tobacco alone shows decided increase of crop everywhere. Acreages and number of farms reporting show somewhat corresponding changes.

#### FIELD CROPS

##### Barley

The nation's barley crop has doubled five times during the period studied while New England's gained more than double between 1849 and 1860, but since then has dropped back to almost its start; in Massachusetts a small corresponding gain was followed by a loss of 92% of the crop by 1909.

Barley production per capita in the United States has doubled four times, dwindling from the small amounts formerly grown in New

The first section of the report deals with the general situation of the country and the progress of the work done during the year. It is followed by a detailed account of the various projects undertaken and the results achieved. The report concludes with a summary of the work done and a list of the names of the persons who have been engaged in the work.

The second section of the report deals with the financial statement of the year. It shows the total amount of the grant received and the amount expended. It also shows the balance of the fund at the end of the year. The report concludes with a list of the names of the persons who have been engaged in the work.

**APPENDIX**

The appendix contains a list of the names of the persons who have been engaged in the work during the year. It also contains a list of the names of the persons who have been engaged in the work during the year. The list is arranged in alphabetical order of the names of the persons.

FIELD CROPS - BARLEY

Total Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1849 - 1920.)

Year	United States	New England	Massachusetts	References
1849	5,167,015	414,496	112,385	
1859	15,325,898	1,199,119	134,891	
1869	29,761,305	1,075,059	133,071	
1879	43,927,485	697,884	80,128	
1889	78,332,786	871,872	38,715	
1899	119,632,827	704,957	14,967	24/14
1909	173,344,212	428,617	9,021	13 C/605
1919	122,024,773	343,641	11,839	20

A C R E A G E

1849	--	--	--	
1859	--	--	--	
1869	--	--	--	
1879	1,997,727	32,580	3,171	
1889	3,220,834	35,754	1,785	
1899	4,470,196	25,554	638	
1909	7,698,706	16,242	349	13 C/606
1919	6,472,888	14,767	-569	

Average Yield in Bushels Per Acre.

1849	--	--	--	
1859	--	--	--	
1869	--	--	--	
1879	22.0	23.6	25.3	
1889	24.3	24.4	21.7	
1899	26.8	29.9	22.5	
1909	22.5	26.4	25.8	13 C/608
1919	22.3	23.3	23.2	

Number of Farms Reporting the Crop.

1900	272,913	11,214	298	
1910	383,197	6,593	197	13 C/606
1920	--	<del>5,722</del> 5,573*	260	20

\* Connecticut data not included because not yet published. Fewer than 100 farms reported the crop in 1899 and 1909 in that state.

STOCK LIST - 1947

Company Name

(Company Name, Address, and other details)

Company Name	Shares	Price	Total
1	100	10.00	1000.00
2	200	15.00	3000.00
3	300	20.00	6000.00
4	400	25.00	10000.00
5	500	30.00	15000.00
6	600	35.00	21000.00
7	700	40.00	28000.00
8	800	45.00	36000.00
9	900	50.00	45000.00
10	1000	55.00	55000.00

STOCK LIST - 1948

Company Name	Shares	Price	Total
1	100	10.00	1000.00
2	200	15.00	3000.00
3	300	20.00	6000.00
4	400	25.00	10000.00
5	500	30.00	15000.00
6	600	35.00	21000.00
7	700	40.00	28000.00
8	800	45.00	36000.00
9	900	50.00	45000.00
10	1000	55.00	55000.00

STOCK LIST - 1949

Company Name	Shares	Price	Total
1	100	10.00	1000.00
2	200	15.00	3000.00
3	300	20.00	6000.00
4	400	25.00	10000.00
5	500	30.00	15000.00
6	600	35.00	21000.00
7	700	40.00	28000.00
8	800	45.00	36000.00
9	900	50.00	45000.00
10	1000	55.00	55000.00

STOCK LIST - 1950

Company Name	Shares	Price	Total
1	100	10.00	1000.00
2	200	15.00	3000.00
3	300	20.00	6000.00
4	400	25.00	10000.00
5	500	30.00	15000.00
6	600	35.00	21000.00
7	700	40.00	28000.00
8	800	45.00	36000.00
9	900	50.00	45000.00
10	1000	55.00	55000.00

\* Shareholder Data for 1947-1950  
 \* Total Shares: 10,000  
 \* Total Value: \$550,000

FIELD CROPS - BARLEY

Average Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1850 - 1920.)

UNITED STATES

Production Per

Year	Unit Total Population (bu)	Acre Improved Farm Land (bu)	Farm (bu)	Work Animal (bu)	Agricultural Worker (bu)	Crop Acre (bu)	Farm Reporting Crop (bu)
1849	.22	.046	3.83	.36	--	--	--
1859	.50	.10	7.74	1.36	4.83	--	--
1869	.77	.10	11.19	3.52	9.03	--	--
1879	.33	.15	10.97	3.33	5.79	22.0	--
1889	1.25	.22	17.16	4.87	9.14	24.3	--
1899	1.57	.29	20.35	7.72	11.46	26.3	438.4
1909	1.33	.37	27.25	9.94	13.96	22.5	452.4
1919	--	--	---	--	--	--	--

NEW ENGLAND

1849	.15	.02	2.47	.32	--	--	--
1859	.33	.05	6.52	2.23	4.03	--	--
1869	.31	.05	5.95	2.35	3.14	--	--
1879	.17	.05	3.37	1.51	2.31	25.6	--
1889	.19	.03	4.59	1.32	2.36	24.4	--
1899	.13	.09	3.67	1.93	3.45	29.9	62.9
1909	.07	.06	2.27	1.25	1.53	26.4	65
1919	--	--	---	--	--	--	--

MASSACHUSETTS

1849	.11	.03	3.30	1.27	--	--	--
1859	.11	.05	6.52	2.23	4.03	--	--
1869	.09	.05	5.02	2.03	1.36	--	--
1879	.05	.04	2.09	1.23	1.24	25.3	--
1889	.02	.02	1.13	.53	.56	21.7	--
1899	.005	.01	.40	.21	.23	23.5	50.
1909	.003	.003	.24	.14	.13	25.3	45.8
1919	.003	.003	.37	--	--	--	45.5

THE  
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 ARCHIVES  
 COLLEGE PARK, MARYLAND  
 20740-6001  
 TEL: 301-837-1000  
 FAX: 301-837-1900

DATE	DESCRIPTION	AMOUNT	BALANCE
1950	...	...	...
1951	...	...	...
1952	...	...	...
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2017	...	...	...
2018	...	...	...
2019	...	...	...
2020	...	...	...
2021	...	...	...
2022	...	...	...
2023	...	...	...
2024	...	...	...
2025	...	...	...
2026	...	...	...
2027	...	...	...
2028	...	...	...
2029	...	...	...
2030	...	...	...

England and Massachusetts to practically nothing. The same is true per agricultural worker.

#### Buckwheat

The buckwheat crop doubled in the United States, lost and then gained. New England's crop gained 65% from 1849 to 1869, but is now dropping below its starting point; Massachusetts, since 1869, has lost four-fifths of hers; New England's average yield per acre, 21 bushels, is the best considered; that of Massachusetts is nearly 0.2 bushels.

The production of buckwheat per worker has held up far better in New England than elsewhere; per farm reporting the crop it tends to remain unchanged here while gaining in the United States.

#### Indian Corn or Maize

The nation's greatest grain crop, corn, is a big one for Massachusetts although at times oats yield more heavily. Up to 1899 the crop declined in New England to 77% and in Massachusetts to 64% its one-time quantity, then gaining decidedly to 1910, only to lose again up to 1930. The New England and Massachusetts yield per acre of corn reaches over 40 bushels per acre, 50% larger than the nation's.

The national yield of corn per farm reporting the crop is nearly 550 bushels; Massachusetts farms grow a quarter as much, New England farms one-fifth. The yields per worker show greater differences - usually 225 bushels for the United States, and from 15 to 30 only for New England and Massachusetts.

#### Hay and Forage

Hay and forage consist almost wholly of hay and the few root crops and small amount of corn fodder reported are nearly negligible for purpose of this study. The crop has multiplied itself seven fold in the United States; it has gained 54% in New England and 34% in



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FIELD CROPS - BUCKWHEAT

Total Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1849 - 1920.)

Total Production (in Bushels)

Year	United States	New England	Massachusetts	References
1849	8,253,312	713,044	105,895	
1859	17,371,818	930,612	123,203	
1869	9,331,721	1,152,413	58,049	
1879	11,817,327	1,032,343	57,117	
1889	12,110,349	890,428	31,300	
1899	11,337,005	807,336	36,034	24/15-16
1909	14,849,332	602,715	32,926	13 C/615
1919	12,690,384	456,762	23,238	20

Acreage

Year	United States	New England	Massachusetts	References
1879	648,380	59,272	5,617	
1889	337,164	45,161	2,473	
1899	307,060	42,767	2,262	
1909	273,043	28,725	1,650	13 C/616
1919	742,627	22,462	1,304	20

Average Yield (in Bushels) per Acre.

Year	United States	New England	Massachusetts	References
1879	13.9	17.5	11.9	
1889	14.5	19.6	12.7	
1899	13.3	18.8	15.9	
1909	16.9	21.0	20.2	13 C/618
1919	17.1	20.6	17.8	

Number of Farms Reporting the Crop.

Year	United States	New England	Massachusetts	References
1899	209,450	16,533	1,033	
1909	197,789	17,838	867	13 C/618
1919	- -	20,764*	679	20

\* Connecticut report not yet published; and included. 1899 farms there reported the crop in 1899; 1649 in 1909.

TABLE 1 - (continued)

TABLE 1 - (continued)

(Data for the years 1960-1969 are preliminary estimates)

TABLE 1 - (continued)

Year	Population	Area	Value	Unit
1960	10,000,000	100,000	100,000,000	100,000,000
1961	10,100,000	100,000	100,000,000	100,000,000
1962	10,200,000	100,000	100,000,000	100,000,000
1963	10,300,000	100,000	100,000,000	100,000,000
1964	10,400,000	100,000	100,000,000	100,000,000
1965	10,500,000	100,000	100,000,000	100,000,000
1966	10,600,000	100,000	100,000,000	100,000,000
1967	10,700,000	100,000	100,000,000	100,000,000
1968	10,800,000	100,000	100,000,000	100,000,000
1969	10,900,000	100,000	100,000,000	100,000,000
1970	11,000,000	100,000	100,000,000	100,000,000
1971	11,100,000	100,000	100,000,000	100,000,000
1972	11,200,000	100,000	100,000,000	100,000,000
1973	11,300,000	100,000	100,000,000	100,000,000
1974	11,400,000	100,000	100,000,000	100,000,000
1975	11,500,000	100,000	100,000,000	100,000,000
1976	11,600,000	100,000	100,000,000	100,000,000
1977	11,700,000	100,000	100,000,000	100,000,000
1978	11,800,000	100,000	100,000,000	100,000,000
1979	11,900,000	100,000	100,000,000	100,000,000
1980	12,000,000	100,000	100,000,000	100,000,000

Source: U.S. Census Bureau, Statistical Abstract of the United States, 1980.

FIELD CROPS - WHEAT

Average Production  
in the  
United States, New England and Massachusetts.  
(Calculated from U.S. Census Reports, 1850 - 1920.)

UNITED STATES

Year	Unit Total Population (bu)	Acre Improved Farm Land (bu)	Production Per			Crop Acre (bu)	Farm Report- ing Crop (bu)
			Farm (bu)	Work Animal (bu)	Agri'cl Forsar (bu)		
1849	.39	.03	6.18	1.43	--	--	--
1859	.56	.11	3.57	2.37	5.42	--	--
1869	.25	.05	3.69	1.16	1.66	--	--
1879	.24	.04	2.95	1.04	1.54	13.9	--
1889	.19	.03	2.65	.75	1.41	14.5	--
1899	.15	.03	1.96	.72	1.03	23.9	53.7
1909	.16	.03	2.33	.55	1.20	16.9	75.1
1919	--	--	--	--	--	--	--

NEW ENGLAND

1849	.26	.06	4.27	1.43	--	--	--
1859	.32	.08	5.39	1.33	3.33	--	--
1869	.34	.10	6.53	2.60	5.77	--	--
1879	.26	.03	5.05	2.25	3.44	17.5	--
1889	.19	.03	4.60	1.55	2.92	19.6	--
1899	.14	.10	4.21	2.31	2.31	13.9	3.3
1909	.09	.08	3.19	1.75	2.15	21.0	47.0
1919	--	--	--	--	--	--	--

MASSACHUSETTS

1849	.11	.05	3.11	1.19	--	--	--
1859	.10	.06	3.46	1.43	1.95	--	--
1869	.04	.03	2.19	.37	.90	--	--
1879	.04	.03	1.57	.90	1.03	11.0	--
1889	.01	.02	.91	.43	.45	12.7	--
1899	.01	.03	.54	.50	.54	15.9	34.7
1909	.009	.03	.39	.52	.46	20.2	33.0
1919	.006	.025	.75	--	--	--	34.2

THE UNIVERSITY OF CHICAGO

Department of Chemistry  
Chicago, Illinois

NAME	ADDRESS	CITY	STATE
Mr. J. H. ...	1234 ...	Chicago	Ill.
Mr. W. B. ...	5678 ...	Chicago	Ill.
Mr. C. D. ...	9012 ...	Chicago	Ill.
Mr. E. F. ...	3456 ...	Chicago	Ill.
Mr. G. H. ...	7890 ...	Chicago	Ill.
Mr. I. J. ...	1122 ...	Chicago	Ill.
Mr. K. L. ...	3344 ...	Chicago	Ill.
Mr. M. N. ...	5566 ...	Chicago	Ill.
Mr. O. P. ...	7788 ...	Chicago	Ill.
Mr. Q. R. ...	9900 ...	Chicago	Ill.
Mr. S. T. ...	1122 ...	Chicago	Ill.
Mr. U. V. ...	3344 ...	Chicago	Ill.
Mr. W. X. ...	5566 ...	Chicago	Ill.
Mr. Y. Z. ...	7788 ...	Chicago	Ill.

FIELD CROPS - INDIAN CORN OR MAIZE

Total Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1869 - 1919.)

Total Production in Bushels.

Year	United States	New England	Massachusetts	References
1849	592,071,104	10,175,856	2,345,490	
1859	838,792,742	9,164,505	2,157,063	
1869	760,944,549	7,347,666	1,397,807	
1879	1,754,591,676	8,376,308	1,797,768	
1889	2,122,327,547	4,596,046	1,330,101	
1899	2,666,322,370	7,807,920	1,539,980	24/17
1909	2,552,189,630	8,238,394	2,029,381	13 C/581
1919	2,345,832,507	5,597,723	1,515,933	20

Acreage.

1879	62,368,504	243,102	52,555	
1889	72,087,752	158,701	34,010	
1899	94,913,673	198,377	39,131	
1909	98,382,665	182,065	41,755	13 C/582
1919	87,771,600	117,347	28,953	20

Average Yield (in Bushels) per Acre.

1879	28.1	34.5	34.2	
1889	29.4	38.6	39.1	
1899	28.1	39.4	39.4	
1909	25.9	45.2	48.6	13 C/582
1919	26.8	47.7	52.4	20

Number of Farms Reporting the Crop.

1899	4,697,498	80,109	14,552	
1909	4,813,175	67,712	14,755	13 C/582
1919	- -	<del>45,616</del> *	10,937	20

\* Connecticut report not yet published and included. Just over 15,000 farms in that state there reported the crop in 1899 and 1909.

TABLE NO. 1 - SUMMARY OF RESULTS

Division of Fisheries and Wildlife  
 Department of Natural Resources  
 1967-68  
 (Continued from p. 1)

Species	Sex	Age	Length (mm)	Weight (g)
Atlantic Salmon	Male	1+	245	120
			250	130
			255	140
			260	150
			265	160
	Female	1+	240	110
			245	120
			250	130
			255	140
			260	150
Brook Trout	Male	1+	180	80
			185	85
			190	90
			195	95
			200	100
	Female	1+	175	75
			180	80
			185	85
			190	90
			195	95

TABLE NO. 2 - SUMMARY OF RESULTS

Species	Sex	Age	Length (mm)	Weight (g)
Atlantic Salmon	Male	1+	245	120
			250	130
			255	140
			260	150
			265	160
	Female	1+	240	110
			245	120
			250	130
			255	140
			260	150
Brook Trout	Male	1+	180	80
			185	85
			190	90
			195	95
			200	100
	Female	1+	175	75
			180	80
			185	85
			190	90
			195	95

Prepared by the Division of Fisheries and Wildlife  
 Department of Natural Resources  
 1967-68  
 (Continued from p. 1)

FIELD CROPS - 1911-1920 or EARLIER  
Average Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1850 - 1920.)

UNITED STATES  
Production Per

Year	Unit Total Population (bu)	Acre Improved Farm Land (bu)	Farm (bu)	Work Animal (bu)	Agricultural Worker (bu)	Crop Acre (bu)	Farm Report- ing Crop (bu)
1849	25.53	5.24	403.59	93.07	--	--	--
1859	26.63	5.14	419.35	93.63	253.30	--	--
1869	19.73	4.03	236.04	39.90	123.43	--	--
1879	34.93	6.16	437.67	154.57	223.75	23.1	--
1889	33.39	5.93	464.95	131.93	247.70	29.4	--
1899	35.04	6.43	464.73	171.95	255.44	23.1	367.6
1909	27.69	5.37	401.19	146.42	205.60	25.9	530.3
1919	--	--	--	--	--	--	--

NEW ENGLAND

1849	3.73	.91	60.70	19.99	--	--	--
1859	2.92	.75	49.32	17.39	59.33	--	--
1869	2.11	.61	40.07	16.04	23.34	--	--
1879	2.09	.64	40.42	13.14	27.75	34.5	--
1889	.93	.43	34.19	9.57	15.10	33.6	--
1899	1.37	.96	49.63	21.39	37.16	39.4	97.5
1909	1.26	1.14	43.64	23.96	29.34	45.2	121.7
1919	.76	.92	37.75	--	--	--	--

MASSACHUSETTS

1849	2.36	1.10	63.35	26.41	--	--	--
1859	1.75	1.01	60.33	25.03	34.09	--	--
1869	.96	.81	52.75	21.35	19.20	--	--
1879	1.01	.34	46.30	34.33	27.67	34.2	--
1889	.59	.30	33.69	13.10	18.03	39.1	--
1899	.55	1.19	40.33	21.41	23.14	39.4	105.9
1909	.60	1.74	54.97	22.13	30.22	43.6	137.6
1919	.39	1.67	47.37	--	--	--	133.7





Massachusetts, this last in spite of the loss of 37% of the acreage; the gain was made by increased yield of 55% per crop acre in both New England and Massachusetts.

The yields per farm in all cases are closely alike - around 25 tons, with Massachusetts averaging slightly lower than the rest of the country. The New England worker has always produced more than 12 tons, decidedly more than in Massachusetts and frequently twice or thrice as much as in the United States. Without doubt the explanation of this low yield is that much of the feed in sections of the west was grazed down, whereas in this part of the country it must be cut and stored for use; but in 1910 it is to be noted the worker of the nation as a whole produced 13.17 tons, more than the Massachusetts man and four-fifths as much as the New Englander who produced 16.6 tons, which probably indicates a decided change in agricultural methods.

#### Oats

New England holds to her oat crop as steadily as to any grain crop, though this is shrinking. The 1909 Massachusetts crop had fallen off 75% from the high figure of 1859, which was 1,180,000 bushels. The loss in acreage followed closely. The Massachusetts farm reporting the crop produces about one-fourth, the New England farm about one-third as much as the average for the United States. Massachusetts and New England produce the same average amount, 32 bushels of oats per crop acre; the average for the nation is 2 less.

#### White or Irish Potatoes

The national white potato crop has grown even faster than the population, having increased six times its size from 1849 to 1909 while population quadrupled. In New England and Massachusetts much fluctuation in yield has taken place, probably due in part to poor crop years. But

The first part of the book is devoted to a general survey of the history of the English language. The author discusses the various influences which have shaped the language, from the Celtic and Saxon roots to the Norman and French contributions. He also examines the process of standardization and the role of the printing press in the development of a literary language.

*Chapter II*

This chapter deals with the syntax of the English language. It covers the rules governing the construction of sentences, including the order of words and the use of grammatical markers. The author provides numerous examples to illustrate the various sentence structures used in English, from simple declarative sentences to complex subordinate clauses.

*Chapter III*

The third chapter focuses on the semantics of the English language. It explores how meaning is conveyed through the choice of words and phrases. The author discusses the relationship between words and their referents, and how context influences the interpretation of language.

FIELD CROPS - HAY AND FORAGE.

Total Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1849 - 1919.)

Total Production in Tons.

Year	United States	New England	Massachusetts	References
1849	13,838,642	3,463,652	651,807	
1859	19,083,896	3,869,200	665,331	
1869	27,316,048	3,936,590	597,455	
1879	35,150,711	4,079,545	684,679	
1889	66,831,480	4,565,014	793,167	11 C/90
1899	79,251,562	4,576,865	848,950	
1909**	97,453,735	4,659,906	831,955	13 C/640
1919	146,343,241	5,308,632	871,573	20

Acreage.

1879	30,531,054	4,254,246	639,498	
1889	52,948,787	4,180,355	627,385	
1899	61,691,069	4,050,025	610,023	
1909**	72,280,776	3,797,598	519,503	13 C/641
1919	96,121,228	3,573,719	466,330	20

Average Yield in Tons Per Acre.

1879	1.15	0.96	1.07	
1889	1.26	1.09	1.26	
1899	1.28	1.13	1.39	
1909**	1.35	1.23	1.60	13 C/643
1919	1.52	1.49	1.66	20

Number of Farms Reporting the Crops.

1899	3,583,747	184,203	34,278	
1909**	3,403,206	177,167	33,569	13 C/641
1920	- -	<del>145,035</del> *	26,978	20

- \* Connecticut report not yet published and included. In 1899, 25,503 farms there reported the crops; in 1909, 23,463.
- \*\* Includes root crops used for forage, not materially affecting the totals given.

TABLE I. (continued)

TABLE I. (continued)  
 (continued from p. 10, column 2)

TABLE II. (continued)

Year	1960	1961	1962	1963	1964	1965
1960	100	100	100	100	100	100
1961	100	100	100	100	100	100
1962	100	100	100	100	100	100
1963	100	100	100	100	100	100
1964	100	100	100	100	100	100
1965	100	100	100	100	100	100

TABLE III. (continued)

Year	1960	1961	1962	1963	1964	1965
1960	100	100	100	100	100	100
1961	100	100	100	100	100	100
1962	100	100	100	100	100	100
1963	100	100	100	100	100	100
1964	100	100	100	100	100	100
1965	100	100	100	100	100	100

TABLE IV. (continued)

Year	1960	1961	1962	1963	1964	1965
1960	100	100	100	100	100	100
1961	100	100	100	100	100	100
1962	100	100	100	100	100	100
1963	100	100	100	100	100	100
1964	100	100	100	100	100	100
1965	100	100	100	100	100	100

... (continued text) ...

FIELD CROPS - WHEAT AND BARLEY

Average Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1850 - 1932.)

UNITED STATES

Year	Unit Population (Tons)	Total Acre Improved Farm Land (Tons)	Production Per		Agric'l Worker (Tons)	Crop Acre (Tons)	Farm report- ing Crop (Tons)
			Farm (Tons)	Work Animal (Tons)			
1849	.50	.12	9.55	2.29	--	--	--
1859	.61	.12	9.34	2.24	5.30	--	--
1869	.71	.14	10.27	3.23	4.61	--	--
1879	.70	.12	8.77	3.10	4.53	1.15	--
1889	1.07	.19	14.64	4.15	7.30	1.26	--
1899	1.04	.19	15.31	3.11	7.89	1.33	23.1
1909	1.06	.21	15.32	5.59	13.17	1.35	23.6
1919	--	--	--	--	--	--	--

NEW ENGLAND

1849	1.27	.31	10.60	6.35	--	--	--
1859	1.23	.316	21.03	7.34	13.01	--	--
1869	1.13	.33	21.79	1.59	12.50	--	--
1879	1.02	.31	19.89	3.34	13.52	0.90	--
1889	1.50	.43	24.03	9.50	14.99	1.09	--
1899	.82	.50	23.85	12.54	15.92	1.13	23.5
1909	.71	.63	24.63	13.55	16.00	1.23	26.3
1919	.72	.37	33.91	--	--	--	--

MASSACHUSETTS

1849	.67	.305	19.13	7.34	--	--	--
1859	.54	.31	13.69	7.73	10.52	--	--
1869	.41	.34	22.55	9.13	8.21	--	--
1879	.33	.32	17.33	9.25	10.54	1.07	--
1889	.35	.43	23.07	10.80	11.33	1.26	--
1899	.30	.66	22.51	11.30	12.76	1.39	24.3
1909	.25	.71	22.54	13.17	13.38	1.60	24.3
1919	.23	.96	27.24	--	--	--	32.3

1881

1881

...

...

Table with multiple columns and rows containing numerical data and labels, mostly illegible due to blurriness. The structure appears to be a ledger or record book.

FIELD CROPS - OATS.

Total Production  
in the

United States, New England, and Massachusetts  
(Calculated from U.S. Census Reports, 1849 - 1919.)

Total Production in Bushels.

Year	United States	New England	Massachusetts	References
1849	146,584,179	8,101,268	1,165,146	
1859	172,643,185	10,895,185	1,180,075	
1869	282,107,185	9,169,504	797,664	
1879	407,858,999	8,839,681	645,159	
1889	809,250,666	8,960,323	388,819	
1899	943,387,375	7,643,175	240,990	24/21-2
1909	1,007,142,980	7,350,601	268,500	13-C/600
1919	1,055,482,798	7,099,721	287,881	20

Acreage.

1879	16,144,593	270,743	20,659	
1889	28,320,677	292,219	14,331	
1899	29,529,698	212,737	6,702	
1909	35,159,441	223,221	7,927	13-C/601
1919	37,991,002	236,113	9,533	20

Average Yield in Bushels per Acre.

1879	25.3	32.6	31.2	
1889	25.6	30.7	27.1	
1899	31.9	31.9	36.0	
1909	28.6	32.9	33.9	13-C/603
1919	27.8	30.0	30.2	20

Number of Farms Reporting the Crop

1899	2,114,559	51,775	2,179	
1909	2,174,006	43,579	2,181	13 C/601
1919	- -	<del>44,796*</del>	2,214	20

\* Connecticut report not yet published and included. In 1899, 3,223 farms there reported the crop; in 1909, 3,192.



Department of Education  
Office of the Superintendent  
Albany, New York

Annual Report to the Board

Year	Total	Per capita	Per pupil
1915	1,000,000	100.00	100.00
1914	950,000	95.00	95.00
1913	900,000	90.00	90.00
1912	850,000	85.00	85.00
1911	800,000	80.00	80.00
1910	750,000	75.00	75.00
1909	700,000	70.00	70.00
1908	650,000	65.00	65.00
1907	600,000	60.00	60.00
1906	550,000	55.00	55.00
1905	500,000	50.00	50.00
1904	450,000	45.00	45.00
1903	400,000	40.00	40.00
1902	350,000	35.00	35.00
1901	300,000	30.00	30.00
1900	250,000	25.00	25.00
1899	200,000	20.00	20.00
1898	150,000	15.00	15.00
1897	100,000	10.00	10.00
1896	50,000	5.00	5.00

Department of Education  
Office of the Superintendent  
Albany, New York

FIBER COWS - Cows

Average production  
in the

United States, New England and Massachusetts.  
(Calculated from U.S. Census Reports 1850 - 1930.)

UNITED STATES

Production per

Year	Unit Total Population (bu)	Acres Improved Farm Land (bu)	Farm (bu)	Work Animal (bu)	Agric'l Worker (bu)	Crop Acre (bu)	Farm Report- ing Crop (bu)
1849	6.32	1.30	101.16	24.23	--	--	--
1859	5.49	1.06	54.46	30.30	53.27	--	--
1869	7.32	1.49	106.06	33.33	47.63	--	--
1879	8.13	1.43	101.74	35.93	63.17	25.3	--
1889	12.92	2.26	177.29	30.30	103.93	26.6	--
1899	12.40	2.23	164.43	60.34	90.33	31.9	646.1
1909	10.93	2.13	153.32	57.73	89.99	25.6	463.3
1919	--	--	--	--	--	--	--

NEW ENGLAND

1849	2.97	.73	43.32	16.02	--	--	--
1859	3.48	.89	59.23	20.63	36.65	--	--
1869	2.63	.76	59.76	20.02	29.13	--	--
1879	2.20	.67	42.66	19.15	26.29	32.6	--
1889	1.91	.33	47.17	13.66	29.43	30.7	--
1899	1.37	.94	39.33	20.94	26.59	31.9	147.6
1909	1.12	1.01	33.93	21.36	26.13	32.0	163.7
1919	.97	1.16	45.35	--	--	--	--

MASSACHUSETTS

1849	1.17	.55	34.20	13.11	--	--	--
1859	.96	.55	33.15	13.72	30.65	--	--
1869	.55	.46	30.10	12.13	10.41	--	--
1879	.36	.50	16.30	8.69	9.23	31.2	--
1889	.17	.23	11.31	5.29	5.53	27.1	--
1899	.09	.19	6.39	3.35	3.52	36.0	110.6
1909	.03	.23	7.27	4.25	4.00	33.0	123.2
1919	.07	.32	9.00	--	--	30.2	130.0

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1003	Paper	200	0.50	100.00
1004	Stationery	100	1.00	100.00
1005	Stationery	100	1.00	100.00
1006	Stationery	100	1.00	100.00
1007	Stationery	100	1.00	100.00
1008	Stationery	100	1.00	100.00
1009	Stationery	100	1.00	100.00
1010	Stationery	100	1.00	100.00
1011	Stationery	100	1.00	100.00
1012	Stationery	100	1.00	100.00
1013	Stationery	100	1.00	100.00
1014	Stationery	100	1.00	100.00
1015	Stationery	100	1.00	100.00

from 1889, which seems to have been such a poor year, to 1909, New England's crop trebled. The Massachusetts crop tends to drop slowly in amount, after remaining fairly steady from 1849 to 1899.

The New England average yield per crop acre has always been the largest, usually well over a hundred bushels, running in 1909 to 176.9; that of Massachusetts is about a hundred, 120½ being the highest; the nation as a whole produces about 94 bushels. The New Englander leads in production per man, growing about 70 bushels as compared with the Massachusetts figure of somewhat over 40 (seldom 50) and the nation's 33.

#### Dry Peas and Beans

Dry peas and beans include cowpeas which are not grown in New England and are small in amount for the United States. The crops are comparatively small at best, but are in New England, at least, much more important as a food crop than mere bulk of production may indicate.

Massachusetts yields have shrunk from 45,246 bushels in 1859 to about one-ninth that in 1909; New England's from 475,831 to less than a third; the nation's have since 1849 practically doubled from 9,218,901 to 18,380,554 bushels.

Production per worker in Massachusetts and New England has diminished as has the total yield but in the United States has varied considerably, on the whole decreasing over two-thirds.

#### Rye

The rye crop of the United States increased 100%, from 14,188,811 bushels in 1849 to 29,520,457 bushels in 1910; the New England and Massachusetts crops have shrunk 90% in the same period from 1,570,589 and 481,021 bushels respectively to 149,392 and 46,261 bushels. Average yield per crop acre has increased over 50% in New England, nearly 100% in Massachusetts, about 25% in the United States. Production per farm

The first thing I noticed when I stepped out of the car was the smell of fresh air. It was a relief after being stuck in traffic for hours. The sun was shining brightly, and the birds were chirping happily. I took a deep breath and felt a sense of peace. The world seemed so much better when you were able to move again. I walked towards the park, feeling a sense of freedom. The children were playing happily, and the dogs were running around. It was a beautiful day, and I was finally able to enjoy it. I had been so stressed and so busy, but now I was able to relax and enjoy the simple pleasures of life. The world was so beautiful, and I was so lucky to be able to see it. I had been so close to giving up, but now I was able to see the beauty of the world again. I was so grateful for the day, and I was so happy to be able to enjoy it. The world was so beautiful, and I was so lucky to be able to see it. I had been so close to giving up, but now I was able to see the beauty of the world again. I was so grateful for the day, and I was so happy to be able to enjoy it.

The End of the Road

The road was long and winding, and it seemed like it would never end. I had been driving for hours, and I was starting to feel a little tired. The sun was still shining brightly, and the birds were still chirping happily. I took a deep breath and felt a sense of peace. The world seemed so much better when you were able to move again. I walked towards the park, feeling a sense of freedom. The children were playing happily, and the dogs were running around. It was a beautiful day, and I was finally able to enjoy it. I had been so stressed and so busy, but now I was able to relax and enjoy the simple pleasures of life. The world was so beautiful, and I was so lucky to be able to see it. I had been so close to giving up, but now I was able to see the beauty of the world again. I was so grateful for the day, and I was so happy to be able to enjoy it. The world was so beautiful, and I was so lucky to be able to see it. I had been so close to giving up, but now I was able to see the beauty of the world again. I was so grateful for the day, and I was so happy to be able to enjoy it.

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FIELD CROPS - WHITE or LIGHT POTATOES

Average production  
in the  
United States, New England and Massachusetts.  
(Calculated from U.S. Census Reports, 1850 - 1920.)

UNITED STATES

Year	Unit Population (bu)	Total Acre Farm Land (bu)	Improved Farm Land (bu)	Production per		Agric'l Forner (bu)	Crop (bu)	Farm Report- ing Crop (bu)
				Farm (bu)	Work Animal (bu)			
1849	3.34		.58	45.41	10.90	--	--	--
1859	3.53		.63	54.33	13.07	34.29	--	--
1869	3.72		.76	53.39	16.93	24.20	--	--
1879	3.33		.60	42.27	14.93	22.23	--	--
1889	3.47		.61	47.65	13.52	25.40	33.6	--
1899	5.59		.66	47.64	17.63	26.13	93.0	96.4
1909	4.22		.82	61.13	22.33	31.35	106.1	122.4
1919	--		--	--	--	--	--	--

NEW ENGLAND

1849	7.19		1.76	117.02	33.30	--	--	--
1859	6.30		1.75	116.03	40.50	71.79	--	--
1869	6.36		1.99	123.46	52.14	76.01	--	--
1879	5.50		1.63	106.44	47.73	73.03	109.1	--
1889	2.89		1.27	71.54	23.30	44.64	53.4	--
1899	4.20		2.33	122.29	64.23	31.63	139.3	149.6
1909	6.29		3.63	210.46	119.96	146.91	176.9	276.2
1919	4.45		5.35	293.37	--	--	--	--

MASSACHUSETTS

1849	3.61		1.63	105.24	40.36	--	--	--
1859	2.60		1.49	33.94	37.33	56.61	--	--
1869	2.03		1.74	114.17	46.21	41.55	--	--
1879	1.72		1.44	79.95	41.33	47.26	93.9	--
1889	.33		1.13	57.01	26.67	23.11	72.9	--
1899	1.20		2.59	93.73	46.52	59.29	121.6	121.8
1909	.33		2.53	79.30	46.65	43.37	120.5	119.0
1919	.49		2.07	53.93	--	--	97.5	61.7

Reports of acreage and production being only partial for some sections of the country, a figure for national average production per acre is misleading, so not given.

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FIELD CROPS - WHITE (OR IRISH) POTATOES.

Total Production  
in the  
United States, New England, and Massachusetts  
(Calculated from U.S. Census Reports, 1849 - 1919.)

Total Production in Bushels.

Year	United States	New England	Massachusetts	References.
1849	65,797,886	19,618,111	3,535,384	
1859	111,148,867	21,343,616	3,201,901	
1869	143,337,473	23,928,604	3,025,446	
1879	169,458,539	22,058,069	3,070,389	
1889	217,546,362	13,591,099	1,959,727	11 C/91
1899	273,318,267	23,466,222	3,346,590	
1909	389,194,965	41,245,977	2,946,178	13 C/654
1919	290,427,580	32,702,076	1,865,655	20

Acreage.

1879	- - **	202,099	31,054	11 C/91
1889	2,600,750	159,203	26,873	
1899	2,938,778	180,025	27,521	
1909	3,668,855	233,095	24,459	13 C/654
1919	3,251,703	191,901	21,558	20

Yields in Bushels Per Acre.

1879	- - **	109.1	98.9	
1889	83.6	85.4	72.9	
1899	93.0	130.3	121.6	
1909	106.1	176.9	120.5	13 C/656
1919	- - 89.4	171.2	87.5	20

Number of Farms Reporting the Crop.

1899	2,836,105	156,855	27,470	
1909	3,179,907	149,312	24,757	13 C/654
1919	- -	120,237*	22,813	20

\* Connecticut report not yet published and included. In 1899 22,142 farms there reported the crop; in 1909, 21,486.

\*\* The 1880 census gave acreage in selected states only; no national figures are available (11 C/91)



STATE OF TEXAS - COMPTROLLER GENERAL

REVENUE

1910

Statement of the State Revenue for the Year 1910, as compared with the Revenue for the Year 1909, and showing the amount of the State Debt, as provided for by the Constitution of the State of Texas, 1875, and the Revenue for the Year 1910, as compared with the Revenue for the Year 1909, and showing the amount of the State Debt, as provided for by the Constitution of the State of Texas, 1875.

Statement of the State Revenue for the Year 1910

Item	1910	1909	Change
Salaries	1,000,000	950,000	50,000
Expenses	800,000	750,000	50,000
Interest	200,000	180,000	20,000
Depreciation	100,000	100,000	0
Reserve	100,000	100,000	0
Total	2,200,000	2,080,000	120,000

Statement of the State Revenue for the Year 1909

Item	1909	1908	Change
Salaries	950,000	900,000	50,000
Expenses	750,000	700,000	50,000
Interest	180,000	160,000	20,000
Depreciation	100,000	100,000	0
Reserve	100,000	100,000	0
Total	2,080,000	1,960,000	120,000

Approved by the Comptroller General of the State of Texas, this 10th day of December, 1910.

*[Signature]*

FIELD CROPS - DRY PEAS AND BEANS (INCLUDING COMPEAS)

Total Production  
in the  
United States, New England and Massachusetts.  
(Calculated from U.S. Census Reports, 1849 - 1919.)

Total Production in Bushels.

Year	United States	New England	Massachusetts	References.
1849	9,219,901	450,891	43,709	
1859	15,061,995	475,831	45,246	
1869	5,742,027	465,767	24,690	
1879	9,590,027	417,023	23,278	
1889	9,378,903	283,192	14,228	
1899	14,504,068	260,279	10,198	24/34
1909**	18,380,554	152,895	5,459	13 C/625; 13 C/627
1919	- -	- -	10,902	

\*\* This year's production is the sum of that of peas and beans given in the tables to which reference is given.

Number of Farms Reporting Beans.

1899	245,016	38,429	1,609	
1909	185,934	26,224	1,252	13 C/624; 13 C/626
1919	- -	16,883*	1,166	20

\* Connecticut report not yet published and included.  
In 1899 and 1909 the State had just over 700 farms reporting the crop.

Number of Farms Reporting Pease.

1899	417,864	4,215	125	
1909	261,231	1,488	58	13 C/624; 13 C/626
1919	- -	528*	37	20

\* Connecticut report not yet published and included.  
In 1900, 35 farms there reported the crop; in 1909, only 18.  
*(in that state)*

... ..  
... ..  
... ..

Year	...	...	...
1911	...	...	...
1912	...	...	...
1913	...	...	...
1914	...	...	...
1915	...	...	...

... ..

...

Year	...	...	...
1911	...	...	...
1912	...	...	...
1913	...	...	...
1914	...	...	...
1915	...	...	...

... ..

...

Year	...	...	...
1911	...	...	...
1912	...	...	...
1913	...	...	...
1914	...	...	...
1915	...	...	...

... ..

FIELD CROPS - NEW ENGLAND AND MASSACHUSETTS

Average Production  
in the

United States, New England and Massachusetts.  
(Calculated from U.S. Census Reports, 1850 - 1920.)

UNITED STATES

Year	Unit Total Population (bu)	Production Per		Farm (bu)	Work Animal (bu)	Agric'l Worker (bu)
		Acres Improved	Farm Land			
1849	.40	.03		6.56	1.53	--
1859	.43	.09		7.34	1.77	4.65
1869	.15	.03		2.16	.63	.97
1879	.19	.03		2.39	.84	1.25
1889	.15	.03		2.05	.55	1.09
1899	.19	.04		2.53	.94	1.39
1909	.29	.04		2.89	1.05	1.48
1919	--	--		--	--	--

NEW ENGLAND

1849	.17	.04		2.69	.89	--
1859	.15	.04		2.59	.90	1.60
1869	.13	.04		2.53	1.02	1.43
1879	.10	.03		2.01	.90	1.38
1889	.06	.03		1.49	.59	.93
1899	.05	.03		1.36	.71	.91
1909	.02	.02		.31	.44	.54
1919	--	--		--	--	--

MASSACHUSETTS

1849	.04	.02		1.23	.49	--
1859	.04	.02		1.27	.53	.72
1869	.02	.01		.94	.33	.34
1879	.01	.01		.61	.31	.36
1889	.006	.009		.41	.19	.20
1899	.004	.003		.27	.14	.15
1909	.002	.005		.15	.09	.08
1919	.004	.01		.34	--	--



FIELD CROPS - RYE.

Total Production  
in the  
United States, New England and Massachusetts  
(Calculated from U. S. Census Reports, 1849 - 1919.)

Total Production in Bushels

Year	United States	New England	Massachusetts	References.
1849	14,138,813	1,570,589	431,031	24/25-6
1859	21,101,380	1,425,851	388,085	-
1869	16,918,795	703,379	239,227	
1879	19,831,595	730,215	213,716	
1889	28,421,398	403,525	117,021	
1899	25,570,350	317,964	80,294	
1909	29,520,457	230,458	59,183	13 C/610
1919	75,992,223	149,392	46,261	20

Acreage.

1879	1,842,233	64,428	21,666	
1889	2,171,604	32,770	10,665	
1899	2,054,292	18,655	4,557	
1909	2,195,561	13,221	3,476	13 C/611
1919	7,679,405	10,282	3,062	20

Average Yield in Bushels Per acre.

1879	10.8	11.3	9.9	
1889	13.1	12.3	11.0	
1899	12.4	17.0	13.2	
1909	13.4	17.4	17.0	13 C/613
1919	--	--	23.	20

Number of Farms Reporting the Crop.

1899	235,103	7,612	1,662	
1909	275,796	5,674	1,304	13 C/611
1919	--	--	1,192	20

TABLE 1. - 1950

UNITED STATES DEPARTMENT OF AGRICULTURE  
 BUREAU OF AGRICULTURAL ECONOMICS  
 (Continued on page 2)

TABLE 2. - 1950

Year	Class	By region	By State
1950	...	...	...
1949	...	...	...
1948	...	...	...
1947	...	...	...
1946	...	...	...
1945	...	...	...
1944	...	...	...
1943	...	...	...
1942	...	...	...
1941	...	...	...
1940	...	...	...

TABLE 3. - 1950

1950	...	...	...
1949	...	...	...
1948	...	...	...
1947	...	...	...
1946	...	...	...
1945	...	...	...
1944	...	...	...
1943	...	...	...
1942	...	...	...
1941	...	...	...
1940	...	...	...

TABLE 4. - 1950

1950	...	...	...
1949	...	...	...
1948	...	...	...
1947	...	...	...
1946	...	...	...
1945	...	...	...
1944	...	...	...
1943	...	...	...
1942	...	...	...
1941	...	...	...
1940	...	...	...

TABLE 5. - 1950

1950	...	...	...
1949	...	...	...
1948	...	...	...
1947	...	...	...
1946	...	...	...
1945	...	...	...
1944	...	...	...
1943	...	...	...
1942	...	...	...
1941	...	...	...
1940	...	...	...

FIELD CROPS - OYS

Average Production  
in the  
United States, New England and Massachusetts.  
(Calculated from U.S. Census Reports, 1850 - 1920.)

UNITED STATES

Year	Unit Total Population (bu)	Acre Improved Farm Land (bu)	Production Per		Agric'l Worker (bu)	Crop Acre (bu)	Farm Reporting Crop (bu)
			Farm (bu)	Work Animal (bu)			
1849	.61	.13	9.79	2.35	--	--	--
1859	.67	.13	10.30	2.48	6.51	--	--
1869	.44	.09	6.36	3.00	2.30	--	--
1879	.40	.07	4.95	1.75	2.59	10.2	--
1889	.45	.03	6.23	1.77	3.32	13.1	--
1899	.34	.06	4.46	1.65	2.50	12.4	36.7
1909	.52	.06	4.64	1.69	2.23	13.4	107.0
1919	--	--	--	--	--	--	--

NEW ENGLAND

1849	.53	.14	9.37	3.11	--	--	--
1859	.45	.12	7.75	2.71	2.30	--	--
1869	.20	.06	3.39	1.54	2.23	--	--
1879	.13	.06	3.52	1.53	1.33	11.3	--
1889	.09	.04	2.12	.34	1.33	12.5	--
1899	.06	.04	1.66	.37	1.11	17.0	41.3
1909	.02	.02	.95	--	--	17.2	40.6
1919	--	--	--	--	--	--	--

MASSACHUSETTS

1849	.43	.23	14.12	5.42	--	--	--
1859	.32	.13	10.90	4.51	6.13	--	--
1869	.16	.14	9.03	3.65	3.29	--	--
1879	.10	.10	3.54	2.83	3.30	8.9	--
1889	.05	.07	3.40	1.59	1.63	11.0	--
1899	.02	.05	1.59	.34	.91	15.2	36.3
1909	.02	.05	1.60	.94	.33	17.0	45.4
1919	.01	.05	1.45	--	--	--	31.3





reporting the crop in New England and Massachusetts is about 40 bushels, in the United States about 25; per agricultural worker in the United States it has dropped from 6.5 bushels in 1859 to 2.38 in 1909 - about two-thirds; in New England from 4.8 to 1.11 bushels, over 75%; in Massachusetts from 6.13 to .88 bushels, over 85%. The number of farms reporting the crop has decreased slightly in the United States, and in New England and Massachusetts 25% from 1899 to 1910.

#### Wheat.

The United States wheat crop grew from 100,000,000 bushels in 1849 and 173,000,000 bushels in 1855 to 683,000,000 bushels in 1909. The per capita yield nearly doubled in that period, but the average yield per agricultural worker in 1909 was only 1½ bushels above that of 1899; in 1899 it had reached a maximum of 63.09 bushels. The New England crop of 1849 was practically 1% of the national crop, while the Massachusetts crop was only three-hundredths of one percent of the crop of the United States. In 1859 Massachusetts reached her high mark of 119,783 bushels and in 1879 the crop in all New England reached the highest point, 1,227,037 bushels - so it is easy to see that this part of the country never had a large crop to lose. But, such as it was, New England's crop in 1909 was only 9% of her largest crop, and the Massachusetts crop was barely 3% of her largest production, only 2,404 bushels. In fact, the crop of New England has been so small since 1910 that the U.S. Department of Agriculture gives statistics for it in Maine and Vermont alone. The New England production of wheat per worker has equalled four bushels only once, in the big crop of 1879, straightway dropping abruptly to two-fifths of a bushel in 1909. The Massachusetts worker in 1852 produced nearly two bushels, in 1889 and 1909 two pounds.

The first part of the document is a letter from the Secretary of the Board of Education to the Board of Directors of the University of the State of New York. The letter discusses the progress of the Board of Education and the various reports that have been submitted to it. It also mentions the various committees that have been appointed and the work that they are doing. The letter is dated 1892 and is signed by the Secretary of the Board of Education.

1892

REPORT

The Board of Education has the honor to acknowledge the receipt of the report of the Board of Directors of the University of the State of New York, dated 1892. The report contains a full and complete statement of the affairs of the University during the year 1892. It is a most interesting and valuable document, and it is the duty of the Board of Education to give it the most careful consideration. The Board of Education has already done so, and it has found that the Board of Directors has done its duty in a most efficient and economical manner. It has also found that the University has made great progress during the year 1892, and that it is well prepared to meet the needs of the State in the future. The Board of Education is therefore pleased to recommend that the report of the Board of Directors be accepted and that the Board of Directors be re-elected for the next year.

Very respectfully,  
Secretary of the Board of Education

FIELD CROPS - WHEAT

Total Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1849 - 1919.)

Total Production in Bushels.

Year	United States	New England	Massachusetts	References
1849	1 00,485,944	1,000,894	31,211	
1859	173,104,924	1,083,193	119,783	
1869	237,745,626	1,000,393	34,648	
1879	459,433,137	1,337,057	15,768	
1889	468,373,968	289,124	1,813	
1899	658,534,252	168,125	1,750	24/27
1909	683,379,259	114,993	2,404	13 C/591
1919	945,403,215	544,786	33,253	20

Acreage.

1879	35,430,333	79,003	963	
1889	35,579,514	15,106	112	
1899	52,583,574	9,237	95	
1909	44,268,522	4,893	102	13 C/591
1919	73,099,421	31,864	1,876	20

Yield in Bushels Per Acre.

1879	13.0	15.5	13.4	
1889	13.9	19.1	16.2	
1899	12.5	18.0	16.4	
1909	15.4	23.5	22.1	13 C/593
1919	12.9	17.1	17.7	20

Number of Farms Reporting Crop.

1899	2,053,912	4,585	48	
1909	1,458,667	2,236	81	13 C/591
1919.	- -	<del>13,381</del>	703	20

\* Connecticut report not yet published and included. The State probably had over 1,000 growing wheat in 1919.

TABLE - 1937

1937

(Continued from previous page)

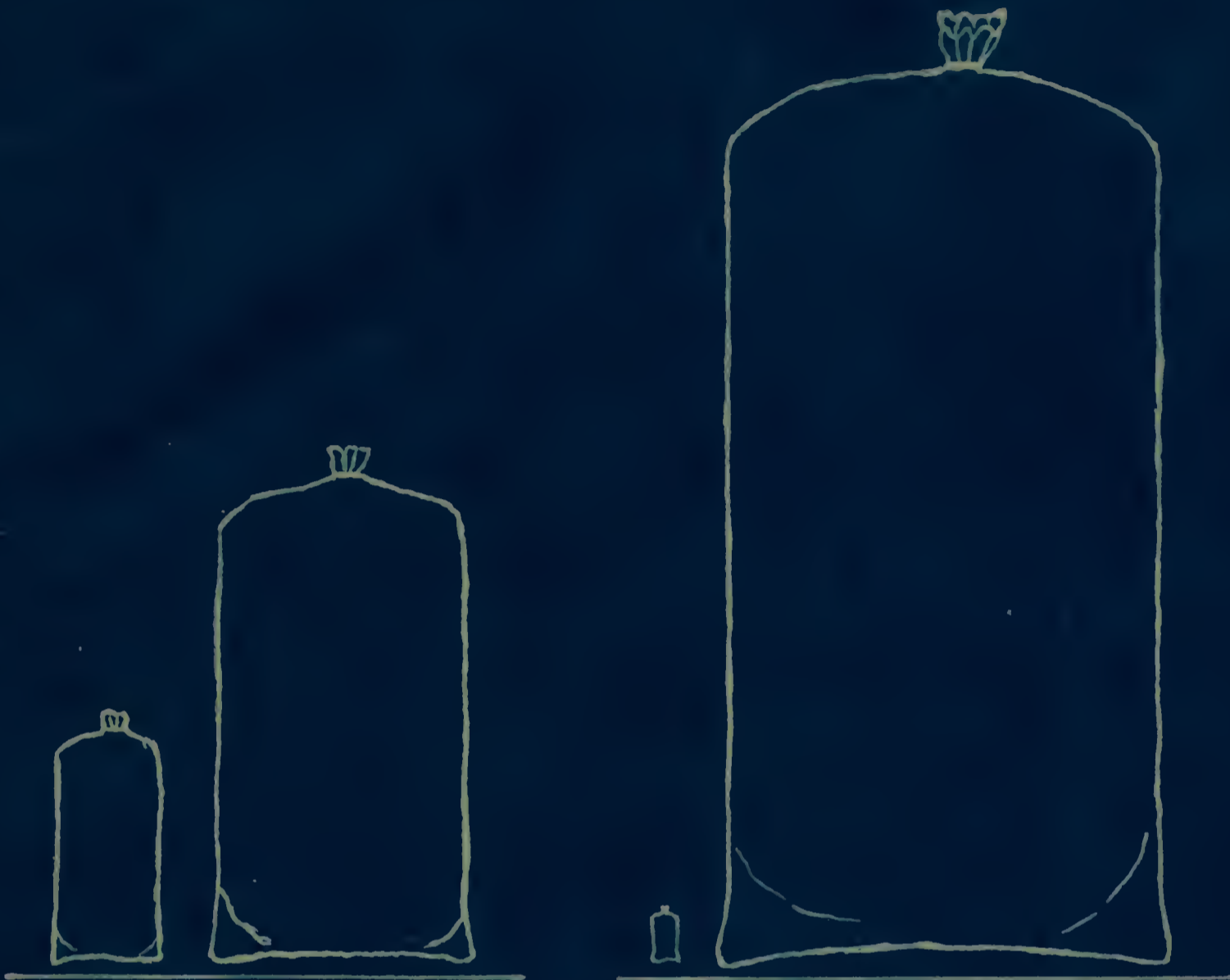
TABLE - 1937

Year	...	...	...	...
1937	...	...	...	...
1936	...	...	...	...
1935	...	...	...	...
1934	...	...	...	...
1933	...	...	...	...
1932	...	...	...	...
1931	...	...	...	...
1930	...	...	...	...
1929	...	...	...	...
1928	...	...	...	...
1927	...	...	...	...
1926	...	...	...	...
1925	...	...	...	...
1924	...	...	...	...
1923	...	...	...	...
1922	...	...	...	...
1921	...	...	...	...
1920	...	...	...	...
1919	...	...	...	...
1918	...	...	...	...
1917	...	...	...	...
1916	...	...	...	...
1915	...	...	...	...
1914	...	...	...	...
1913	...	...	...	...
1912	...	...	...	...
1911	...	...	...	...
1910	...	...	...	...
1909	...	...	...	...
1908	...	...	...	...
1907	...	...	...	...
1906	...	...	...	...
1905	...	...	...	...
1904	...	...	...	...
1903	...	...	...	...
1902	...	...	...	...
1901	...	...	...	...
1900	...	...	...	...

TABLE - 1937

Year	...	...	...	...
1937	...	...	...	...
1936	...	...	...	...
1935	...	...	...	...
1934	...	...	...	...
1933	...	...	...	...
1932	...	...	...	...
1931	...	...	...	...
1930	...	...	...	...
1929	...	...	...	...
1928	...	...	...	...
1927	...	...	...	...
1926	...	...	...	...
1925	...	...	...	...
1924	...	...	...	...
1923	...	...	...	...
1922	...	...	...	...
1921	...	...	...	...
1920	...	...	...	...
1919	...	...	...	...
1918	...	...	...	...
1917	...	...	...	...
1916	...	...	...	...
1915	...	...	...	...
1914	...	...	...	...
1913	...	...	...	...
1912	...	...	...	...
1911	...	...	...	...
1910	...	...	...	...
1909	...	...	...	...
1908	...	...	...	...
1907	...	...	...	...
1906	...	...	...	...
1905	...	...	...	...
1904	...	...	...	...
1903	...	...	...	...
1902	...	...	...	...
1901	...	...	...	...
1900	...	...	...	...

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N.E.  
1849

U.S.

N.E.

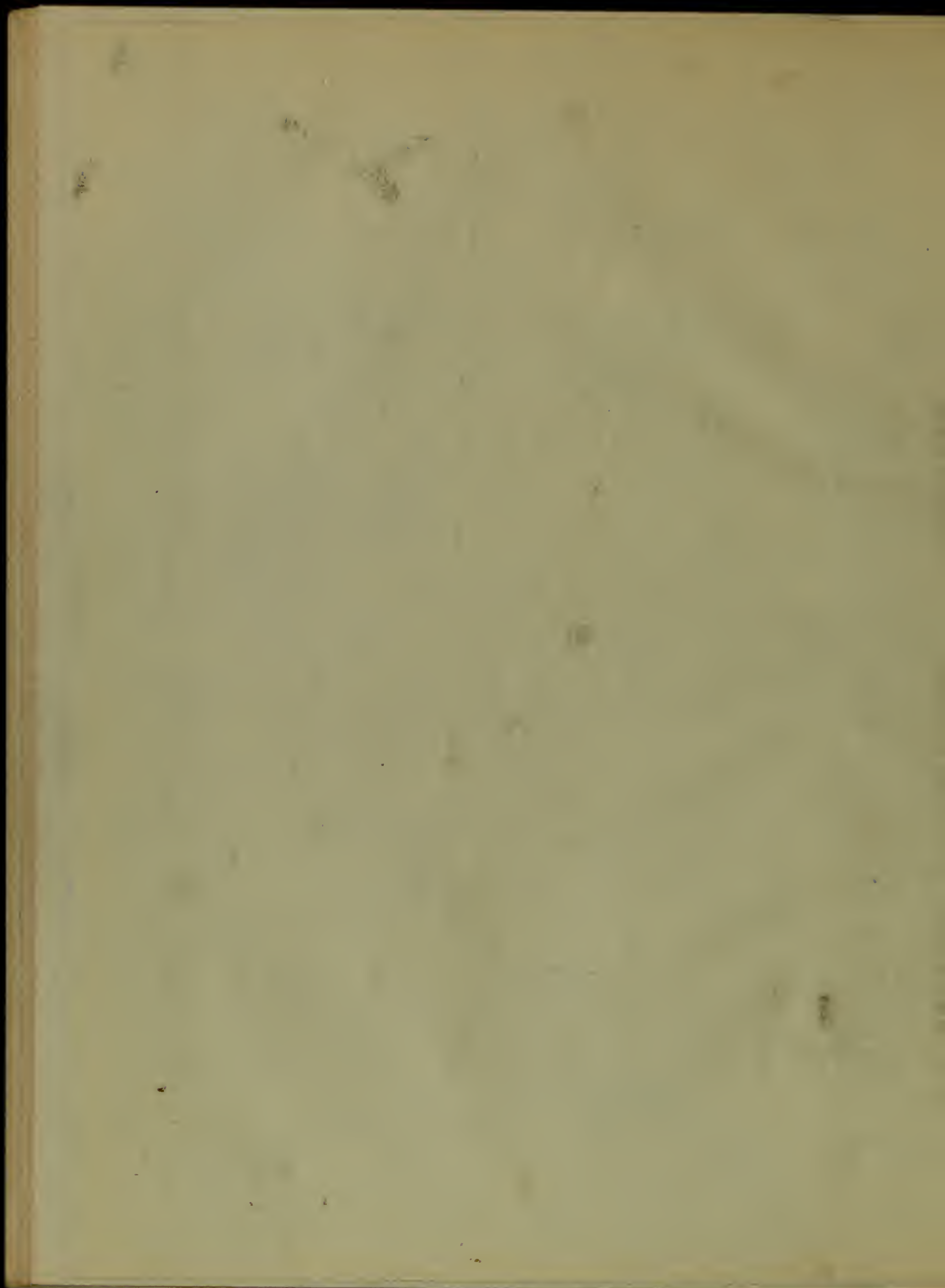
1909

U.S.

1,090,894 Bu. — NEW ENGLAND — 114,998 Bu.  
 100,485,944 Bu. — UNITED STATES — 683,379,259 Bu.

## THE WHEAT CROPS

IN THE UNITED STATES AND NEW ENGLAND, 1849 AND 1909.  
 — FROM U.S. CENSUS DATA.



FIELD CROPS - GRAIN

Average Production  
in the

United States, District of Columbia and Possessions  
(Calculated from U.S. Census Reports, 1850 - 1929.)

UNITED STATES

Year	Unit Total Population (bu)	Acre Improved Farm Land (bu)	Production per		Agric'l Worker (bu)	Crop Acre (bu)	Farm Report- ing Crop (bu)
			Acres (bu)	Animal (bu)			
1840	4.33	.35	28.31	16.64	--	--	--
1850	6.50	1.00	21.62	20.36	53.21	--	--
1860	7.46	1.32	103.10	33.99	43.89	--	--
1870	9.16	1.61	114.62	40.43	50.90	13.4	--
1880	7.43	1.31	102.61	37.12	54.63	14.9	--
1890	8.66	1.59	114.73	42.46	63.08	12.3	323.6
1900	7.42	1.44	107.42	39.21	53.75	10.4	623.6
1919	--	--	--	--	--	--	--

NEW ENGLAND

1840	.40	.10	6.51	2.16	--	--	--
1850	.35	.09	3.39	2.66	3.64	--	--
1860	.29	.03	5.64	2.10	3.13	--	--
1870	.31	.09	5.921	1.66	4.07	15.5	--
1880	.06	.03	1.52	.60	.93	19.1	--
1890	.03	.02	.57	.46	.53	16.0	34.2
1900	.02	.02	.61	.33	.41	23.2	61.4
1919	.07	.09	3.43	--	--	--	--

MASSACHUSETTS

1840	.33	.015	.02	.33	--	--	--
1850	.10	.035	3.36	1.39	1.99	--	--
1860	.02	.02	2.51	.53	.48	--	--
1870	.009	.007	.41	.21	.24	16.4	--
1880	.009	.001	.05	.95	.03	16.2	--
1890	.0006	.001	.03	.02	.03	23.4	36.5
1900	--	--	--	--	--	--	29.7
1919	.01	.04	1.04	--	--	--	47.3



Date	Description	Amount	Balance
1880	Jan 1		100.00
	Feb 1	50.00	50.00
	Mar 1	25.00	25.00
	Apr 1	10.00	15.00
	May 1	75.00	90.00
	Jun 1	30.00	60.00
	Jul 1	15.00	45.00
	Aug 1	20.00	25.00
	Sep 1	10.00	15.00
	Oct 1	5.00	10.00
	Nov 1	3.00	7.00
	Dec 1	2.00	5.00
	Total	250.00	250.00

### Tobacco

The tobacco crop has grown greatly. In 1909 the crops of the United States, New England and Massachusetts were respectively six, twenty-seven, and seventy times as large as those of 1849; in 1912 the New England and Massachusetts crops were respectively forty and one hundred times the earliest one considered. The most phenomenal rate of increase of New England tobacco production was from 1849 to 1859.

New England leads the country in production with 1,600 pounds per crop acre, Massachusetts almost equalling it, the national average being around 750 pounds. Production per worker in the United States has decreased 36.5% from 134 pounds, while in New England it has reached 135 pounds, an increase of 335%, and in Massachusetts 142 pounds, an increase of 160%. Perhaps 100 pounds per worker may be taken as a fair average, as the amount varies greatly from locality to locality and from year to year. Massachusetts farms growing the crop report the highest average yields, over 4 tons each, New England farms 1 1/2 tons each, the United States farms 1 1/3 tons each.

### Orchard Products and Fruits

#### Apples

The nation's largest fruit crop is that of apples. Statistics for this and some other orchard fruits were first given in the eleventh census of the United States in 1880. From that time to 1909 the United States total crop has increased from about 145 million bushels to 175 million bushels and dropped back again while in New England the crop increased from 10 1/2 million to 12 million bushels. The Massachusetts crop increased from an apparently low yield of 1,690,110 bushels to 3,187,211 bushels. The number of bearing trees for the United States rose sharply from 120 millions to 200 millions from 1880 to 1899 and then followed a

CHAPTER

The first part of the book is devoted to a general survey of the history of the world, from the beginning of time to the present day. It is a very interesting and comprehensive work, and is well worth a read. The author has done a great deal of research, and his knowledge is shown in every page. The book is written in a clear and concise style, and is easy to read. It is a very good introduction to the history of the world, and is suitable for both students and the general public. The book is divided into several parts, each dealing with a different aspect of world history. The first part deals with the prehistoric period, the second with the ancient world, the third with the medieval period, the fourth with the modern world, and the fifth with the future. Each part is written in a clear and concise style, and is easy to read. The book is a very good introduction to the history of the world, and is suitable for both students and the general public.

CHAPTER II

THE

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FIELD CROPS - TOBACCO.

Total Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1849 - 1919.)

Total Productions in Pounds.

Year	United States	New England	Massachusetts	References.
1849	199,753,655	1,405,920	138,246	
1859	454,209,461	2,266,445	3,233,193	
1869	262,735,341	15,870,539	7,312,335	
1879	472,661,157	19,717,398	5,369,436	
1889	486,256,646	11,827,083	2,794,848	11 C/90
1899	868,112,865	23,910,524	6,406,570	
1909	1,055,764,806	37,961,873	9,549,306	13 C/
1919	1,372,993,211	56,961,893	14,282,539	20

Acreage.

1879	638,841	12,199	3,358	
1889	895,301	8,461	2,012	
1899	1,101,460	14,212	3,826	
1909	1,224,911	21,745	5,521	13 C/677
1919	1,867,080	36,225	9,109	20

Yield in Pounds Per Acre.

1879	740	1,616	1,599	
1889	702	1,400	1,389	
1899	788	1,675	1,674	
1909	815	1,746	1,730	13 C/679
1919	737	1,570	1,540	20

Number of Farms Reporting the Crop.

1899	208,292	4,026	1,009	
1909	326,919	3,865	910	13 C/677
1919	--	--	1,293	20

TABLE I

Summary of Results

The following table shows the results of the experiments conducted during the period from 1941 to 1943. The data are presented in the form of a table with columns for the different variables and rows for the different experimental runs.

The results are given in the following table:

Run No.	Temperature (°C)	Time (min)	Yield (%)	Notes
1	100	10	10	
2	100	20	20	
3	100	30	30	
4	100	40	40	
5	100	50	50	
6	100	60	60	
7	100	70	70	
8	100	80	80	
9	100	90	90	
10	100	100	100	
11	100	110	110	
12	100	120	120	
13	100	130	130	
14	100	140	140	
15	100	150	150	
16	100	160	160	
17	100	170	170	
18	100	180	180	
19	100	190	190	
20	100	200	200	
21	100	210	210	
22	100	220	220	
23	100	230	230	
24	100	240	240	
25	100	250	250	
26	100	260	260	
27	100	270	270	
28	100	280	280	
29	100	290	290	
30	100	300	300	
31	100	310	310	
32	100	320	320	
33	100	330	330	
34	100	340	340	
35	100	350	350	
36	100	360	360	
37	100	370	370	
38	100	380	380	
39	100	390	390	
40	100	400	400	
41	100	410	410	
42	100	420	420	
43	100	430	430	
44	100	440	440	
45	100	450	450	
46	100	460	460	
47	100	470	470	
48	100	480	480	
49	100	490	490	
50	100	500	500	

FILLED CROPS - T. BACON

Average Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1850 - 1920.)

UNITED STATES

Production Per

Year	Unit Total Population (lbs)	Acres Improved Farm Land (lbs)	Farm (lbs)	Work Animal (lbs)	Agric'l Worker (lbs)	Crop Acre (lbs)	Farm Reporting Crop (lbs)
1849	--	--	--	--	--	--	--
1859	13.31	2.66	212.42	51.06	133.97	--	--
1869	6.31	1.39	98.77	31.04	44.36	--	--
1879	6.42	1.66	117.90	41.64	61.62	740.	--
1889	7.73	1.37	106.36	36.35	57.00	702.	--
1899	11.41	2.09	151.31	35.99	53.17	743.	2,315.9
1909	11.45	2.23	165.56	60.57	35.05	615.	3,220.6
1919	--	--	--	--	--	--	--

NEW ENGLAND

1849	--	--	--	--	--	--	--
1859	2.96	.76	50.32	17.53	31.17	--	--
1869	4.54	1.32	57.35	34.64	36.41	--	--
1879	4.92	1.50	95.15	42.71	65.33	1,616.	--
1889	2.52	1.10	62.26	24.62	33.54	1,400.	--
1899	4.26	2.93	124.03	55.22	32.33	1,675	5,914.2
1909	5.79	3.23	201.07	110.41	135.31	1,740	9,021.0
1919	7.71	9.23	362.35	--	--	--	--

MASSACHUSETTS

1849	--	--	--	--	--	--	--
1859	2.62	1.50	90.32	37.59	51.10	--	--
1869	5.02	4.21	275.96	111.70	100.43	--	--
1879	3.91	2.52	139.31	72.36	32.64	1,596	--
1889	1.25	1.63	31.31	33.04	40.01	1,349	--
1899	2.23	4.16	167.36	37.06	96.37	1,674	6,349.4
1909	2.84	3.20	253.67	151.19	142.20	1,730	10,394.9
1919	3.71	15.72	446.32	--	--	1,840	11,046.1

1871 - 1872

1873 - 1874

1875 - 1876

1877 - 1878

1879 - 1880

1881 - 1882

1883 - 1884

1885 - 1886

1887 - 1888

1889 - 1890

1891 - 1892

1893 - 1894

1895 - 1896

1897 - 1898

1899 - 1900

1901 - 1902

1903 - 1904

1905 - 1906

1907 - 1908

1909 - 1910

1911 - 1912

1913 - 1914

1915 - 1916

1917 - 1918

1919 - 1920

1921 - 1922

1923 - 1924

1925 - 1926

1927 - 1928

decrease of 25% in 1909. In New England and Massachusetts contemporary gains and losses in crops and number of bearing trees were moderate and the results were net losses which have continued up to 1919. Furthermore, the national yield of fruit per bearing tree has dropped from 1 1/5 bushels to barely one, while New England's has grown from just over 1 to 1 1/2 bushels in 1909 and in Massachusetts the increase has been from 1 to nearly 2 bushels per tree. New England's yield increased to nearly 3 bushels by 1919 and Massachusetts' to 2 3/5 bushels, almost a barrel per tree. This decided increase of yield per tree in New England has accounted for increase of total production in spite of decreased number of trees. While the number of farms reporting bearing trees has not been published except for 1910, it is to be noted that the Massachusetts farm produces fully twice the apples the average farm of the nation and a third more than that of New England. The production per agricultural worker of the United States has fallen from practically 17 to 13 bushels while that of New England and Massachusetts has risen from 34 and 27 to 37, over three times the national average.

#### Peaches

Peaches are rather erratic producers. In New England they are not grown to any extent north of Massachusetts owing to winter cold and spring frosts at blossoming time. The crop even in Massachusetts averages very small. Even in most sections where crops are more nearly reliable, cold often greatly injures buds and blossoms. The erratic nature of production is well shown by the way production per bearing tree varies from practically nothing to fair crops from year to year, also by the fact that nearly doubling the number of bearing trees in the United States from 1899 to 1899 was accompanied





ORCHARD and FRUIT STATISTICS  
in the  
United States, New England and Massachusetts.  
Census Years, 1889 - 1919.  
(U.S. Census Data, 1899 - 1929)

APPLES

Year	Total Production in Bushels			References
	United States	New England	Massachusetts	
1889	143,105,689	18,491,424	1,699,110	
1899	175,397,600	11,649,264	3,023,436	14/43
1909	146,122,313	10,503,457	2,359,379	130/710
1919	136,560,997	12,070,259	3,267,211	23
<u>Number of Bearing Trees</u>				
1889	120,151,707	9,495,322	1,097,551	116/493
1899	201,794,764	11,127,226	1,831,046	125/11617
1909	151,322,340	3,219,152	1,367,379	130/710
1919	115,309,165	5,351,577	1,315,379	23
<u>Number of Farms Reporting Apple Trees of Bearing Age</u>				
1909	2,930,363	137,765	27,937	130/710
1919	---	---	14,270	23

PEACHES

Year	Total Production in Bushels			References
	United States	New England	Massachusetts	
1889	36,367,747	47,417	7,472	
1899	15,432,603	104,737	27,936	14/43
1909	35,470,276	400,905	91,756	130/711
1919	50,686,082	483,003	313,139	
<u>Number of Bearing Trees</u>				
1889	53,335,597	210,105	57,004	116/493
1899	99,919,423	635,593	301,433	120/11617
1909	94,306,657	723,810	154,392	130/711
1919	65,646,101	993,003	346,266	23
<u>Number of Farms Reporting Peach Trees of Bearing Age</u>				
1909	1,343,610	12,369	6,003	131/711
1919	---	---	7,003	23

\* Peaches only; nectarines added in 1909, but outside California they are negligible.

STATE OF CALIFORNIA  
 DEPARTMENT OF REVENUE  
 STATEMENT OF RECEIPTS AND DISBURSMENTS  
 FOR THE YEAR ENDING DECEMBER 31, 1911

RECEIPTS		DISBURSMENTS		BALANCE	
AMOUNT	PERCENT	AMOUNT	PERCENT	AMOUNT	PERCENT
1,000,000.00	100.00	1,000,000.00	100.00	1,000,000.00	100.00
200,000.00	20.00	200,000.00	20.00	200,000.00	20.00
400,000.00	40.00	400,000.00	40.00	400,000.00	40.00
600,000.00	60.00	600,000.00	60.00	600,000.00	60.00
800,000.00	80.00	800,000.00	80.00	800,000.00	80.00
1,000,000.00	100.00	1,000,000.00	100.00	1,000,000.00	100.00
1,200,000.00	120.00	1,200,000.00	120.00	1,200,000.00	120.00
1,400,000.00	140.00	1,400,000.00	140.00	1,400,000.00	140.00
1,600,000.00	160.00	1,600,000.00	160.00	1,600,000.00	160.00
1,800,000.00	180.00	1,800,000.00	180.00	1,800,000.00	180.00
2,000,000.00	200.00	2,000,000.00	200.00	2,000,000.00	200.00
2,200,000.00	220.00	2,200,000.00	220.00	2,200,000.00	220.00
2,400,000.00	240.00	2,400,000.00	240.00	2,400,000.00	240.00
2,600,000.00	260.00	2,600,000.00	260.00	2,600,000.00	260.00
2,800,000.00	280.00	2,800,000.00	280.00	2,800,000.00	280.00
3,000,000.00	300.00	3,000,000.00	300.00	3,000,000.00	300.00
3,200,000.00	320.00	3,200,000.00	320.00	3,200,000.00	320.00
3,400,000.00	340.00	3,400,000.00	340.00	3,400,000.00	340.00
3,600,000.00	360.00	3,600,000.00	360.00	3,600,000.00	360.00
3,800,000.00	380.00	3,800,000.00	380.00	3,800,000.00	380.00
4,000,000.00	400.00	4,000,000.00	400.00	4,000,000.00	400.00
4,200,000.00	420.00	4,200,000.00	420.00	4,200,000.00	420.00
4,400,000.00	440.00	4,400,000.00	440.00	4,400,000.00	440.00
4,600,000.00	460.00	4,600,000.00	460.00	4,600,000.00	460.00
4,800,000.00	480.00	4,800,000.00	480.00	4,800,000.00	480.00
5,000,000.00	500.00	5,000,000.00	500.00	5,000,000.00	500.00
5,200,000.00	520.00	5,200,000.00	520.00	5,200,000.00	520.00
5,400,000.00	540.00	5,400,000.00	540.00	5,400,000.00	540.00
5,600,000.00	560.00	5,600,000.00	560.00	5,600,000.00	560.00
5,800,000.00	580.00	5,800,000.00	580.00	5,800,000.00	580.00
6,000,000.00	600.00	6,000,000.00	600.00	6,000,000.00	600.00
6,200,000.00	620.00	6,200,000.00	620.00	6,200,000.00	620.00
6,400,000.00	640.00	6,400,000.00	640.00	6,400,000.00	640.00
6,600,000.00	660.00	6,600,000.00	660.00	6,600,000.00	660.00
6,800,000.00	680.00	6,800,000.00	680.00	6,800,000.00	680.00
7,000,000.00	700.00	7,000,000.00	700.00	7,000,000.00	700.00
7,200,000.00	720.00	7,200,000.00	720.00	7,200,000.00	720.00
7,400,000.00	740.00	7,400,000.00	740.00	7,400,000.00	740.00
7,600,000.00	760.00	7,600,000.00	760.00	7,600,000.00	760.00
7,800,000.00	780.00	7,800,000.00	780.00	7,800,000.00	780.00
8,000,000.00	800.00	8,000,000.00	800.00	8,000,000.00	800.00
8,200,000.00	820.00	8,200,000.00	820.00	8,200,000.00	820.00
8,400,000.00	840.00	8,400,000.00	840.00	8,400,000.00	840.00
8,600,000.00	860.00	8,600,000.00	860.00	8,600,000.00	860.00
8,800,000.00	880.00	8,800,000.00	880.00	8,800,000.00	880.00
9,000,000.00	900.00	9,000,000.00	900.00	9,000,000.00	900.00
9,200,000.00	920.00	9,200,000.00	920.00	9,200,000.00	920.00
9,400,000.00	940.00	9,400,000.00	940.00	9,400,000.00	940.00
9,600,000.00	960.00	9,600,000.00	960.00	9,600,000.00	960.00
9,800,000.00	980.00	9,800,000.00	980.00	9,800,000.00	980.00
10,000,000.00	1000.00	10,000,000.00	1000.00	10,000,000.00	1000.00

RECEIPTS FROM TAXES AND FEES  
 DISBURSMENTS FOR SALARIES AND EXPENSES  
 BALANCE ON HAND

ORCHARD PRODUCTS - APPLES (Total)

Average Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1890 - 1920.)

UNITED STATES

Year	Unit Total Population (bu)	Production Per		Agricultural Worker (bu)	Work: Animal (bu)	Farm Reporting Crop (bu)
		Bearing Tree (bu)	Farm (bu)			
1889	2.29	1.19	31.35	16.71	3.33	--
1899	2.31	.87	30.57	16.30	11.51	--
1909	1.59	.97	22.97	11.77	3.33	49.0
1919	--	--	--	--	--	--

NEW ENGLAND

1889	2.23	1.10	55.23	34.46	41.84	--
1899	2.03	1.05	60.71	40.52	51.91	--
1909	1.60	1.23	55.66	37.43	38.56	76.3
1919	1.64	1.90	77.10	--	41.30	--

MASSACHUSETTS

1889	.75	.99	49.17	24.24	23.00	--
1899	1.03	1.63	56.17	45.43	42.63	--
1909	.76	1.37	69.08	37.97	40.38	91.3
1919	.33	2.61	99.60	--	65.09	131.3

1875  
 D. G. ...  
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SOYBEAN PRODUCTS - WACHTER

Average Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1890 - 1920.)

UNITED STATES

Year	Unit Total Population (bu)	Production Per				
		Bearing Tree (bu)	Farm (bu)	Agric'l worker (bu)	Work Animal (bu)	Farm Report- ing Crop (bu)
1889	.53	.67	7.97	4.25	4.36	--
1899	.20	.15	2.69	1.48	1.00	--
1909	.38	.38	5.53	2.86	2.03	19.2
1919	--	--	--	--	--	--

NEW ENGLAND

1889	.01	.23	.25	.16	.10	--
1899	.02	.112	.55	.36	.29	--
1909	.06	.56	2.16	1.45	1.18	31.0
1919	.07	.49	3.05	--	1.63	--

MASSACHUSETTS

1889	.005	.09	.22	.10	.10	--
1899	.01	.103	.74	.42	.39	--
1909	.03	.59	2.49	1.32	1.45	18.2
1919	.05	.62	6.66	--	4.35	39.8

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DATE	DESCRIPTION	AMOUNT	BALANCE	CHECK NO.	DEBIT	CREDIT
1950	...	...	...	...	...	...
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1953	...	...	...	...	...	...
1954	...	...	...	...	...	...
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1958	...	...	...	...	...	...
1959	...	...	...	...	...	...
1960	...	...	...	...	...	...

by a cut of 7/13 of the crop. About the only really stable factor upon which to base judgment of the peach industry is the number of bearing trees. From 1889 to 1909 <sup>this</sup> rose from about 54 millions to 94 millions. In New England the increase was from 210,105 to 725,210, then to nearly a million in 1919. Massachusetts shows an increase from about 87,000 to 346,000 trees, but with sharp increases and declines of numbers alternating. On the whole, the United States has nearly doubled its plantings. In New England trees increased to two and one-half times the number in 1889 and in Massachusetts to twice that number. From 1909 to 1919 both New England and Massachusetts made further gains, Massachusetts trees again increasing 100% so that at present there are nearly 350,000 bearing peach trees in the state.

#### Pears

Pear statistics resemble those of apples to some extent, especially in rise in number of bearing trees for all sections and in yield per tree for the New England states and loss of yield in the United States. The nation trebled its number of bearing trees from 1889 to 1909 while New England and Massachusetts fell off, and more sharply since 1910. Total production for the United States rose from 3,064,375 bushels in 1889 to 3,840,733, or nearly tripled the number in the earlier year. In New England it increased 45% from practically 158,000 to 234,000 in 1909; in Massachusetts the increase was 34% making production 98,000 bushels. United States and Massachusetts farms reporting pears produced almost the same quantities of pears per farm in 1909 - 6.8 bushels, New England as a whole producing only about two-thirds as much per farm.

#### Maple Sugar and Syrup

Maple sugar and syrup may perhaps be classed as orchard, or at least, as tree crops. The proportion of maple sap made into



The first part of the paper is devoted to a general discussion of the problem. It is shown that the problem is well-posed in the sense of Hadamard. The second part is devoted to the construction of the solution. The third part is devoted to the study of the properties of the solution. The fourth part is devoted to the study of the stability of the solution. The fifth part is devoted to the study of the asymptotic behavior of the solution. The sixth part is devoted to the study of the numerical solution of the problem. The seventh part is devoted to the study of the application of the problem. The eighth part is devoted to the study of the conclusion.

References

1. A. D. Aleksandrov, *Math. Ann.*, **10**, 1 (1899).  
 2. A. D. Aleksandrov, *Math. Ann.*, **10**, 2 (1899).  
 3. A. D. Aleksandrov, *Math. Ann.*, **10**, 3 (1899).  
 4. A. D. Aleksandrov, *Math. Ann.*, **10**, 4 (1899).  
 5. A. D. Aleksandrov, *Math. Ann.*, **10**, 5 (1899).  
 6. A. D. Aleksandrov, *Math. Ann.*, **10**, 6 (1899).  
 7. A. D. Aleksandrov, *Math. Ann.*, **10**, 7 (1899).  
 8. A. D. Aleksandrov, *Math. Ann.*, **10**, 8 (1899).  
 9. A. D. Aleksandrov, *Math. Ann.*, **10**, 9 (1899).  
 10. A. D. Aleksandrov, *Math. Ann.*, **10**, 10 (1899).

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ORANGE and LEMON PRODUCTS  
in the  
United States, New England and Massachusetts.  
Census Years, 1839 - 1919.  
(U.S. Census Data, 1850 - 1930)

PAGE

Total Production in Bushels

Year	United States	New England	Massachusetts	Reference
1839	3,064,375	155,985	71,559	
1899	6,655,417	183,733	59,011	130/499
1909	5,240,733	35,545	26,071	130/711
1919	14,204,256	194,236	31,456	33

Number of Bearing Trees

1839	5,115,095	503,644	136,543	113/499
1899	17,716,134	357,636	143,903	130/11 613
1909	15,171,324	296,374	115,365	130/711
1919	14,647,412	156,443	55,650	33

Number of Acres Reporting Bear Trees of Bearing Age

1900	1,276,366	43,183	15,030	130/711
------	-----------	--------	--------	---------

Connecticut data not included because not yet published; the state reported in 1839, 1899 and 1909 respectively, 55,141, 75,263 and 56,733 bearing trees.

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RECORDS OF THE BOARD OF TRUSTEES

Year	Month	Day	Minutes	Page
1892	Jan	1	1-10	1
1892	Feb	1	11-20	2
1892	Mar	1	21-30	3
1892	Apr	1	31-40	4
1892	May	1	41-50	5
1892	Jun	1	51-60	6
1892	Jul	1	61-70	7
1892	Aug	1	71-80	8
1892	Sep	1	81-90	9
1892	Oct	1	91-100	10
1892	Nov	1	101-110	11
1892	Dec	1	111-120	12

RECORDS OF THE BOARD OF TRUSTEES

Year	Month	Day	Minutes	Page
1893	Jan	1	121-130	13
1893	Feb	1	131-140	14
1893	Mar	1	141-150	15
1893	Apr	1	151-160	16
1893	May	1	161-170	17
1893	Jun	1	171-180	18
1893	Jul	1	181-190	19
1893	Aug	1	191-200	20
1893	Sep	1	201-210	21
1893	Oct	1	211-220	22
1893	Nov	1	221-230	23
1893	Dec	1	231-240	24

ORCHARD PRODUCTS - FRUIT

Average Production

in the

United States, New England and Massachusetts

(Calculated from U.S. census reports, 1899 - 1929.)

UNITED STATES

Year	Unit Total Population (bu)	Production Per				
		Bearing Tree (bu)	Sare (bu)	Agric'l Worker (bu)	Work Animal (bu)	Sare Report- ing Crop (bu)
1889	.05	.60	.67	.36	.19	--
1899	.09	.37	1.15	.63	.43	--
1909	.10	.53	1.39	.71	.51	6.95
1919	--	--	--	--	--	--

NEW ENGLAND

1889	.03	.51	.82	.51	.32	--
1899	.03	.51	.96	.64	.50	--
1909	.04	.79	1.24	.35	.68	6.95
1919	.03	--	1.24	--	.66	--

MASSACHUSETTS

1889	.03	.52	2.03	1.03	.97	--
1899	.03	.60	2.36	1.34	1.24	--
1909	.03	.55	2.80	1.43	1.52	6.90
1919	.02	.95	2.64	--	1.73	--

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Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1875	10	15	20	25	30	35	40	45	50	55	60	65
1876	12	18	23	28	33	38	43	48	53	58	63	68
1877	14	20	25	30	35	40	45	50	55	60	65	70
1878	16	22	27	32	37	42	47	52	57	62	67	72
1879	18	24	29	34	39	44	49	54	59	64	69	74
1880	20	26	31	36	41	46	51	56	61	66	71	76
1881	22	28	33	38	43	48	53	58	63	68	73	78
1882	24	30	35	40	45	50	55	60	65	70	75	80
1883	26	32	37	42	47	52	57	62	67	72	77	82
1884	28	34	39	44	49	54	59	64	69	74	79	84
1885	30	36	41	46	51	56	61	66	71	76	81	86
1886	32	38	43	48	53	58	63	68	73	78	83	88
1887	34	40	45	50	55	60	65	70	75	80	85	90
1888	36	42	47	52	57	62	67	72	77	82	87	92
1889	38	44	49	54	59	64	69	74	79	84	89	94
1890	40	46	51	56	61	66	71	76	81	86	91	96
1891	42	48	53	58	63	68	73	78	83	88	93	98
1892	44	50	55	60	65	70	75	80	85	90	95	100
1893	46	52	57	62	67	72	77	82	87	92	97	102
1894	48	54	59	64	69	74	79	84	89	94	99	104
1895	50	56	61	66	71	76	81	86	91	96	101	106
1896	52	58	63	68	73	78	83	88	93	98	103	108
1897	54	60	65	70	75	80	85	90	95	100	105	110
1898	56	62	67	72	77	82	87	92	97	102	107	112
1899	58	64	69	74	79	84	89	94	99	104	109	114
1900	60	66	71	76	81	86	91	96	101	106	111	116

sugar and into syrup varies greatly from year to year. The statistics of such yields are combined and will be discussed in terms of sugar alone. Vermont is a leader in maple sap production and so places New England well up in the national showing. In 1910 that state stood first in sugar production, third in syrup production among the states of the nation.

Maple sap runs are probably as much affected by weather and season, as any important crop. Some years the season is short and the run small; some years the reverse happens, and as the sap is produced in large quantities in comparatively few states, variation in production from year to year is great.

From 1860 on the quantities of maple products of the United States and New England are fairly steady, with possibly slight loss since 1890; Massachusetts, however, seems clearly to have lost half her little part of production since that year. Between 1900 and 1910 the number of farms reporting maple products in the United States grew from 62,718 to 87,337, almost 40%; in New England almost 30%, in Massachusetts 52½% with yields more or less corresponding, which make it look as if the great reduction in yield from 1890 to 1900 was due to economic conditions rather than weather or season. Possibly bearing this out is also the increase of production per farm producing to be noted in the United States and New England. Per agricultural worker great variation in amount of maple products from year to year is shown, but on the whole, the New Englander produces a little under 50 pounds, the Massachusetts man 10 pounds, the United States worker nearly 4 pounds.

#### Small Fruits

The small fruits considered are cranberries and strawberries separately; and blackberries (and dewberries), currants, gooseberries and raspberries (and loganberries) collectively. Dewberries and logan-

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SUGAR and SYRUP PRODUCTION  
in the  
United States, New England and Massachusetts.  
Census Years, 1850 - 1919.  
(U.S. Census data, 1850 - 1920)

MAPLE SUGAR and SYRUP  
Sugar (Total production in pounds)

Year	United States	New England	Massachusetts	References
1850	34,253,436	6,533,033	793,535	
1860	40,120,205	13,509,372	1,000,973	
1870	33,443,045	11,269,377	399,300	
1880	36,576,061	15,469,241	673,793	
1890	32,952,927	16,900,264	503,674	110/39
1900	11,933,773	5,435,160	193,990	
1909	14,060,206	8,463,175	156,952	130/396
1919	9,691,854	8,679,597	73,193	39

§ Connecticut data not included because not yet published. The state figures for 1900 and 1909 were respectively as follows: syrup 243 and 4,236 gallons; sugar 4,930 and 16,207 pounds; syrup and sugar as sugar 11,040 and 41,977 pounds. Farms reporting sugar and syrup 59 and 307.

Syrup - Total Production in Gallons

Year	United States	New England	Massachusetts	References
1850	Syrup not reported by the U.S. Census.			
1860	2,597,539	110,349	15,307	
1870	921,057	59,371	2,326	
1880	1,796,043	304,999	13,617	
1890	2,253,376	407,136	33,632	110/39
1900	2,156,611	246,632	27,174	
1909	4,126,413	622,751	33,091	130/697
1919	3,507,745	344,939	27,255	39

§ See note above.

Maple Sugar and Syrup as Sugar - (Total production in pounds)

(The sum of the above tables, syrup converted into terms of sugar by multiplying by 7%. See Farmers' Bulletin 516, p. 41.) 31

1860	52,102,123	14,537,490	1,120,331
1870	15,351,572	11,713,910	417,243
1880	50,046,491	17,336,734	676,321
1890	40,395,747	22,953,734	633,393
1900	27,453,353	7,275,050	396,725
1909	44,553,341	13,133,803	532,135
1919	35,999,941	13,016,642	307,323

§ See note above.



1880  
 THE  
 ANNUAL REPORT OF THE  
 COMMISSIONER OF THE  
 LAND OFFICE  
 FOR THE YEAR ENDING  
 31st DECEMBER 1880

STATE OF NEW YORK  
 DEPARTMENT OF THE LAND OFFICE

CLASSIFICATION	AMOUNT PAID	AMOUNT RECEIVED	AMOUNT PAID	AMOUNT RECEIVED
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The following table shows the amount of money paid and received by the Land Office during the year ending 31st December 1880. The amount paid is shown in the first column, and the amount received in the second column. The total amount paid is \$1,000,000, and the total amount received is \$1,000,000.

CLASSIFICATION	AMOUNT PAID	AMOUNT RECEIVED	AMOUNT PAID	AMOUNT RECEIVED
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CLASSIFICATION	AMOUNT PAID	AMOUNT RECEIVED	AMOUNT PAID	AMOUNT RECEIVED
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SUGAR AND SUGAR PRODUCTS  
in the  
United States, New England and Massachusetts.  
Census Years, 1900 - 1919.  
(U.S. Census Data, 1900 - 1920)

MASSACHUSETTS and NEW ENGLAND

Number of Farms Reporting Sugar and Syrup

Year	United States	New England	Massachusetts	References
1900	68,713	13,142	1,000	
1909	47,537	17,692	1,325	
1919	- - -	17,220	1,646	19

Trees Tapped for Maple Sap

1900	18,399,533	6,879,573	256,601	157,605
1919	17,457,144	7,092,329	252,731	89

Some of the data not included because not yet published. The state figures for 1900 and 1909 were respectively as follows: farms reporting sugar and syrup 98 and 307.

STATE OF NEW YORK

IN SENATE  
January 10, 1911

REPORT OF THE

COMMISSIONERS OF THE LAND OFFICE

Year	Area (Acres)	Value	Notes
1908	1,234,567	\$1,234,567	
1909	1,345,678	\$1,345,678	
1910	1,456,789	\$1,456,789	

STATE OF NEW YORK

Year	Area (Acres)	Value	Notes
1911	1,567,890	\$1,567,890	
Total	5,604,924	\$5,604,924	

Approved and reported by the Commissioners of the Land Office, this 10th day of January, 1911.

MASSACHUSETTS - MAPLE SYRUP AND SUGAR AS SUGAR

Average Production  
in the

United States, New England and Massachusetts.  
(Calculated from U.S. Census reports, 1860 - 1920.)

UNITED STATES

Year	Unit Total Population (lbs)	Production per		Agric'l Per Acre (lbs)	Per Animal (lbs)	Farm Report- ing Crop (lbs)
		Bearing Tree (lbs)	Acres (lbs)			
1860	1.66	--	28.49	1.51	6.15	--
1870	.40	--	5.77	2.60	1.31	--
1880	1.00	--	12.43	6.52	4.41	--
1890	.30	--	16.93	5.32	3.16	--
1900	.36	--	4.77	2.62	1.76	431.1
1909	.47	2.37	7.05	3.61	2.57	513.5
1919	--	--	--	--	--	--

NEW ENGLAND

1860	4.57	--	77.95	43.23	27.21	--
1870	3.36	--	64.37	37.45	23.72	--
1880	4.33	--	13.76	57.51	37.60	--
1890	4.24	--	103.04	65.54	41.54	--
1900	1.30	--	37.91	25.31	19.93	553.6
1909	2.01	1.90	89.59	46.30	33.21	742.6
1919	--	--	--	--	--	--

MASSACHUSETTS

1860	.91	--	31.43	17.73	13.03	--
1870	.29	--	13.75	5.73	6.37	--
1880	.55	--	25.42	15.03	1.32	--
1890	.26	--	16.99	3.37	7.95	--
1900	.14	--	10.52	3.98	6.52	396.3
1909	.12	2.16	15.04	3.27	3.79	564.0
1919	.13	2.01	15.37	--	--	323.5



berries are so few in numbers that they affect the figures but little. Cranberries and strawberries are important crops, but the others are of much less importance, even when classed together.

#### Cranberries

In 1909 Massachusetts led the nation in the production of cranberries, producing three-fifths the 38½ million quarts. It is the state's chief berry crop. Statistics of the crop were first given by the United States Census Bureau in 1900; as yet those for 1910 are the only others available. From 1899 to 1909 production increased, if judged by those two years alone, for the United States, 21%; for New England, 17%; for Massachusetts, 18%, with practically no change in 1919. In production per farm reporting the crop Massachusetts leads by far but it is to be noted that the acreage of the berries per such farm has jumped from less than 3 in 1899 to almost 5 in 1909 and nearly 9 in 1919, with increase in acreage, but with a decrease of over half the number of farms. Also, production per crop acre was over twice that of the United States in 1899 though it seems to be declining slowly. New England's cranberries are grown almost wholly in Massachusetts, so the showings are almost identical except as to production per worker, which really has as little significance here as anywhere, since the berry crop is so localized and specialized by its requirements that at most very few agricultural workers participate in its production.

#### Strawberries.

Strawberries are the next important small fruit, the United States producing in round numbers 255,000,000 quarts; New England's production rose one-sixth from 1899 to 1909 from 10,181,750 quarts to 11,741,835, Massachusetts growing practically half of them. From

The first part of the report is devoted to a general survey of the situation in the country at the present time. It is found that the country is in a state of general depression, and that the people are suffering from want and distress.

CHAPTER I

The first part of the report is devoted to a general survey of the situation in the country at the present time. It is found that the country is in a state of general depression, and that the people are suffering from want and distress. The second part of the report is devoted to a detailed account of the various causes of this depression, and to a discussion of the measures which should be adopted to remedy them. It is found that the principal causes of the depression are the failure of the harvest, the high price of food, and the want of employment. The measures which should be adopted to remedy these causes are the distribution of food, the provision of employment, and the improvement of the agricultural system.

CHAPTER II

The second part of the report is devoted to a detailed account of the various causes of this depression, and to a discussion of the measures which should be adopted to remedy them. It is found that the principal causes of the depression are the failure of the harvest, the high price of food, and the want of employment. The measures which should be adopted to remedy these causes are the distribution of food, the provision of employment, and the improvement of the agricultural system.

GRAPES and WINE  
in the  
United States, New England and Massachusetts.  
Census Years, 1899 - 1919.  
(U.S. Census Data, 1850 - 1920)

MASSACHUSETTS

Year	<u>Total Production in Quarts</u>			References
	United States	New England	Massachusetts	
1899	31,000,812	19,677,216	19,164,992	
1909	23,243,000	23,020,203	22,714,406	130/705
1919	<del>17,691,550</del>	---	33,913,103	21

Average

1899	20,364	5,316	5,128	
1909	13,431	7,031	6,577	130/705
1919	---	---	7,096	21

Number of Farms Reporting the Crop

1899	2,907	2,103	1,357	130/1610
1909	3,910	2,335	1,350	130/705
1919	---	---	356	21

CONNECTICUT

Total Production in Quarts

1899	18,592,695	677,220	255,530	
1909	10,443,532	483,291	213,310	130/706
1919	---	343,396	206,903	21

Average

1899	12,865	476	190	
1909	7,362	439	243	130/706
1919	---	461	236	21

Connecticut data not included because not published yet. In 1899 and 1909 respectively the state reported 175 and 54 acres with a production of 245,920 and 74,433 quarts.

NEW ENGLAND

Total Production in Quarts

Year	<u>Total Production in Quarts</u>			References
	United States	New England	Massachusetts	
1899	9,320,530	109,490	40,390	
1909	3,242,343	154,233	57,327	130/706
1919	---	---	---	

The 14th Census does not report gooseberries separately.

Average

1899	6,572	79	30	
1909	4,765	129	42	130/706



1870  
 The following table shows the results of the  
 experiments conducted during the year  
 1870, and is intended to be published  
 for the information of the public.

Year	1870	1871	1872	1873
...	...	...	...	...

Year	1870	1871	1872	1873
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Year	1870	1871	1872	1873
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Year	1870	1871	1872	1873
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Year	1870	1871	1872	1873
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Year	1870	1871	1872	1873
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Year	1870	1871	1872	1873
...	...	...	...	...

The following table shows the results of the  
 experiments conducted during the year  
 1870, and is intended to be published  
 for the information of the public.

STRAWBERRIES and RASPBERRIES  
in the  
United States, New England and Massachusetts.  
Census Years, 1899 - 1919.  
(U.S. Census Data, 1850 - 1920)

STRAWBERRIES

Year	<u>Total Production in Quarts</u>			References
	United States	New England	Massachusetts	
1899	257,427,103	19,131,759	4,997,240	
1909	255,702,035	11,741,329	5,513,867	130/704
1919	176,934,550	6,319,419	3,151,371	21
		<u>Acres</u>		
1899	151,363	4,205	2,027	
1909	145,045	4,432	2,013	130/704
1919	119,395	3,353	1,431	21
		<u>Number of Farms Reporting Strawberries</u>		
1909	216,544	13,757	4,654	130/704
1919	---	---	2,897	21

RASPBERRIES (and LOGANBERRIES)

Year	<u>Total Production in Quarts</u>			References
	United States	New England	Massachusetts	
1899	76,629,107	1,669,480	593,019	
1909	69,913,196	1,119,007	376,136	130/705
1919	61,333,509	1,232,647	467,323	21
		<u>Acres</u>		
1899	69,916	1,139	413	
1909	43,663	1,003	333	130/705
1919	---	1,299	431	21

\* Connecticut data not included because not yet published. In 1899 and 1909 respectively the state reported 342 and 309 acres with a production of 593,210 and 334,356 quarts.

BLACKBERRIES and RAZZIBERRIES

Year	<u>Total Production in Quarts</u>			References
	United States	New England	Massachusetts	
1899	62,189,335	1,176,330	523,360	
1909	53,343,570	904,595	307,937	130/704
1919	39,945,078	790,102	251,931	22
		<u>Acres</u>		
1899	50,211	795	365	
1909	49,004	690	237	130/704
1919	---	390	340	22

\* Connecticut report not yet published and therefore not included. The state reported 177 and 123 acres in 1899 and 1909 respectively.

1917  
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VEGETABLES AND FRUIT PRODUCTS  
in the  
United States, New England and Massachusetts.  
Census Years, 1899 - 1919.  
(U.S. Census Data, 1899 - 1920)

THE ABOVE SMALL FRUITS  
(except strawberries and cranberries)

Total Production in Quarts

Year	United States	New England	Massachusetts	References
1899	166,731,217	3,623,400	1,332,840	
1909	131,993,141	2,561,126	959,760	
1919	---	---	996,857	

Acreage

1899	130,744	2,489	993
1909	110,899	2,309	960
1919	---	2,649	1,057

Connecticut data not included because not yet published. In 1899 and 1909 respectively the state reported 725 and 469 acres of these fruits.

THE UNIVERSITY OF CHICAGO  
DIVISION OF THE PHYSICAL SCIENCES  
DEPARTMENT OF CHEMISTRY  
CHICAGO, ILLINOIS

DATE	DESCRIPTION	AMOUNT	INITIALS
1912	...	...	...
1913	...	...	...
1914	...	...	...
1915	...	...	...
1916	...	...	...
1917	...	...	...
1918	...	...	...
1919	...	...	...
1920	...	...	...
1921	...	...	...
1922	...	...	...
1923	...	...	...
1924	...	...	...
1925	...	...	...
1926	...	...	...
1927	...	...	...
1928	...	...	...
1929	...	...	...
1930	...	...	...

Total \$ ...

Total \$ ...

Total \$ ...

SMALL FRUITS - CRANBERRIES

Average Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, - 1850 - 1930.)

UNITED STATES

Year	Unit Total Population (qts)	Farm (qts)	Agricultural Worker (qts)	Work Animal (qts)	Farm Reporting Crop (qts)	Crop Acre (qts)
1899	.42	5.51	3.03	2.08	10,870.5	1551.78
1909	.42	6.01	3.08	2.19	9,780.8	2074.93
1919	--	--	--	--	--	--

NEW ENGLAND

1899	3.52	102.55	68.45	53.90	9,356.7	3383.29
1909	3.51	121.96	82.01	66.97	9,654.6	3274.95
1919	--	--	--	--	--	--

MASSACHUSETTS

1899	6.85	508.15	287.97	266.41	10,320.4	3737.32
1909	6.74	615.29	338.23	359.63	16,825.6	3453.63
1919	5.95	716.17	--	468.05	26,773.5	3229.72

STATE OF TEXAS - 1917

COMMISSIONERS OF THE LAND OFFICE

Report of the Commissioners of the Land Office for the year ending June 30, 1917.

REVENUE

Item	1916	1917	1918	Total	Per Cent	1917
Land Sales	1,200,000	1,500,000	1,800,000	4,500,000	100	1,500,000
Other	100,000	150,000	200,000	450,000	100	150,000
Total	1,300,000	1,650,000	2,000,000	4,950,000	100	1,650,000

EXPENSES

Item	1916	1917	1918	Total	Per Cent	1917
Salaries	500,000	600,000	700,000	1,800,000	100	600,000
Travel	100,000	150,000	200,000	450,000	100	150,000
Printing	50,000	75,000	100,000	225,000	100	75,000
Other	150,000	200,000	250,000	600,000	100	200,000
Total	800,000	1,025,000	1,250,000	3,075,000	100	1,025,000

RESERVE FUNDS

Item	1916	1917	1918	Total	Per Cent	1917
Land Sales	1,000,000	1,200,000	1,400,000	3,600,000	100	1,200,000
Other	200,000	300,000	400,000	900,000	100	300,000
Total	1,200,000	1,500,000	1,800,000	4,500,000	100	1,500,000

SMALL FRUITS - BLACK-, GOOSE-, AND RASP- BERRIES, AND CURRANTS

Average Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1850 - 1920.)

UNITED STATES

Year	Unit Total Population (qts)	Farm (qts)	Agricultural Worker (qts)	Work Animal (qts)	Farm Reporting Crop (qts)	Crop Acre (qts)
1899	2.19	29.06	15.97	10.75	--	1275.3
1909	1.43	20.75	10.63	7.57	--	1196.7
1919	--	--	--	--	--	--

NEW ENGLAND

1899	.65	18.88	12.60	9.93	--	1455.8
1909	.39	13.57	9.12	7.45	--	1109.2
1919	--	--	--	--	--	--

MASSACHUSETTS

1899	.49	26.67	20.72	19.22	--	1385.6
1909	.28	25.89	14.23	15.13	--	995.6
1919	.26	30.82	--	20.14	--	933.1

SMALL FRUITS - STRAWBERRIES

UNITED STATES

1899	3.38	44.87	24.66	16.60	--	1700.7
1909	2.77	40.20	20.60	14.67	1180.8	1785.6
1919	--	--	--	--	--	--

NEW ENGLAND

1899	1.82	53.06	35.42	27.89	--	2422.5
1909	1.79	62.19	41.82	34.15	853.5	2649.3
1919	.86	40.36	--	21.62	--	1884.7

MASSACHUSETTS

1899	1.78	132.50	75.09	69.47	--	2455.5
1909	1.64	149.49	82.18	87.38	1185.8	2738.9
1919	.82	98.48	--	64.36	647.6	2202.2



TABLES OF THE ...

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SECTION I

Year	...	...	...	...	...	...
1901	...	...	...	...	...	...
1902	...	...	...	...	...	...
1903	...	...	...	...	...	...

SECTION II

Year	...	...	...	...	...	...
1904	...	...	...	...	...	...
1905	...	...	...	...	...	...
1906	...	...	...	...	...	...

SECTION III

Year	...	...	...	...	...	...
1907	...	...	...	...	...	...
1908	...	...	...	...	...	...
1909	...	...	...	...	...	...

SECTION IV

SECTION V

Year	...	...	...	...	...	...
1910	...	...	...	...	...	...
1911	...	...	...	...	...	...
1912	...	...	...	...	...	...

SECTION VI

Year	...	...	...	...	...	...
1913	...	...	...	...	...	...
1914	...	...	...	...	...	...
1915	...	...	...	...	...	...

SECTION VII

Year	...	...	...	...	...	...
1916	...	...	...	...	...	...
1917	...	...	...	...	...	...
1918	...	...	...	...	...	...

1889 to 1909 the acreage held with comparatively slight change, but from then to 1919 New England and Massachusetts show losses to one-quarter, and the number of Massachusetts farms growing the crop dropped almost two-fifths. New England and Massachusetts seem to beat by half the average yield per acre of the rest of the country, have 2,500 quarts. But, for the one year (1909) for which data is available, New England's production per farm is 320 quarts less than that of Massachusetts and the United States. This shows New England plantings <sup>per farm</sup> average smallest. Per agricultural worker, Massachusetts leads with a production of 65-85 quarts of berries each, New England has two-fifths as many and the United States less than a quarter of this production.

#### Other Small Fruits

Blackberries (and dewberries), gooseberries, raspberries and currants are considered collectively. Some are grown more or less commonly in most berry producing sections. Production of all in 1889 was 166,731,217 quarts, not quite two-thirds that of strawberries alone; in 1909 barely half as much as the strawberry crop. Massachusetts produced just over a third of New England's crop with 1,382,840 quarts in 1889 and 955,760 in 1909; The Massachusetts worker produces 17 quarts on the average, the United States worker 12½, and the New Englander about 11 quarts.

#### Animal Products

##### Milk

The earlier statistics of dairy products given by United States Census Bureau are not comparable with each other, and it is only since 1889 that they have been taken with any uniformity. National production has risen at each census from 5,210,000,000 gallons in 1889 to 7,466,000,000 in 1909, increasing 43%. Production rose <sup>from</sup> 83 to 95½ gallons per capita of population, then dropped to 81 gallons. New



ANIMAL PRODUCTS  
in the  
United States, New England and Massachusetts  
(Data from U.S. Censuses of 1830 - 1920.)

M I L K

Year	Total Production in Gallons			References
	United States	New England	Massachusetts	
1839	5,210,125,567	359,941,532	32,571,924	11/36
1899	7,365,304,304	439,300,243	105,571,373	
1909	7,466,406,334	400,643,248	99,433,330	13C/436
1919	7,805,143,792	<del>385,630,607</del> 385,630,607	76,316,309	23

Number of Farms Reporting MILK COWS

1900	4,513,395	154,663	23,162	12/161st
1910	5,145,369	147,023	27,193	13C/354-5
1920	- - -	106,334 <sup>17</sup>	22,551	23

\* These may be considered as producing milk, though not always reporting it. In 1920 the census figures are of farms reporting dairy cows, excluding some beef-type animals previously included.

\*\* Connecticut data not included because not yet published; in 1900 and 1910 respectively, 21,497 and 20,344 farms reported milk cows.

BUTTER MAKING ON FARMS

Year	Total Production in Pounds			References
	United States	New England	Massachusetts	
1879	777,250,237	65,453,749	9,655,537	10C/141
1899	1,024,235,463	63,170,472	8,353,703	11C/435
1899	1,071,620,056	51,454,627	4,930,262	
1909	994,652,610	46,732,733	3,364,510	13C/437
1919	707,666,492	22,093,227	2,019,231	23

Number of Farms Reporting Making BUTTER

1899	3,617,306	101,953	11,560	
1909	3,737,749	33,010	9,035	13C/437
1919	- - -	25,133	7,361	23

\* Connecticut data not included because not yet published. In 1899 and 1909, respectively, 12,133 and 9,196 farms reported butter making.

Statement of Assets and Liabilities

1912

Statement of Assets

Assets	1911	1912	1913	Total
Real Estate	1,000,000.00	1,200,000.00	1,500,000.00	3,700,000.00
Personal Property	200,000.00	250,000.00	300,000.00	750,000.00
Investments	500,000.00	600,000.00	700,000.00	1,800,000.00
Other Assets	100,000.00	150,000.00	200,000.00	450,000.00
<b>Total Assets</b>	<b>1,800,000.00</b>	<b>2,200,000.00</b>	<b>2,700,000.00</b>	<b>6,700,000.00</b>

Statement of Liabilities

Liabilities	1911	1912	1913	Total
Debts	500,000.00	600,000.00	700,000.00	1,800,000.00
Other Liabilities	100,000.00	150,000.00	200,000.00	450,000.00
<b>Total Liabilities</b>	<b>600,000.00</b>	<b>750,000.00</b>	<b>900,000.00</b>	<b>2,250,000.00</b>

The above statement shows the assets and liabilities of the estate as of the date of the testator's death, and is subject to the audit of the court.

Witness my hand and seal of the court at the City of New York, this 1st day of January, 1912.

Statement of Assets

Statement of Liabilities

Assets	1911	1912	1913	Total
Real Estate	1,000,000.00	1,200,000.00	1,500,000.00	3,700,000.00
Personal Property	200,000.00	250,000.00	300,000.00	750,000.00
Investments	500,000.00	600,000.00	700,000.00	1,800,000.00
Other Assets	100,000.00	150,000.00	200,000.00	450,000.00
<b>Total Assets</b>	<b>1,800,000.00</b>	<b>2,200,000.00</b>	<b>2,700,000.00</b>	<b>6,700,000.00</b>

Liabilities	1911	1912	1913	Total
Debts	500,000.00	600,000.00	700,000.00	1,800,000.00
Other Liabilities	100,000.00	150,000.00	200,000.00	450,000.00
<b>Total Liabilities</b>	<b>600,000.00</b>	<b>750,000.00</b>	<b>900,000.00</b>	<b>2,250,000.00</b>

The above statement shows the assets and liabilities of the estate as of the date of the testator's death, and is subject to the audit of the court.

ANIMAL PRODUCTS - MILK (Total)

Average Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1850 - 1920.)

UNITED STATES

Year	Unit Total Population (gal)	Production Per Agricultural Worker (gal)	Farm (gal)	Per Milk Cow (gal)	Per Farm Reporting Dairy Cows (gal)
1839	33.20	603.24	1,141.41	315.54	--
1899	95.49	691.07	1,266.40	424.02	1609.7
1909	31.00	601.47	1,173.69	362.00	1452.4
1919	--	--	--	--	--

NEW ENGLAND

1839	72.10	1,113.30	1,734.27	412.34	--
1899	36.30	1,703.34	2,552.55	543.20	3166.9
1909	61.14	1,427.01	2,122.01	476.00	2725.0
1919	49.71	--	2,334.91	434.20	--

MASSACHUSETTS

1839	36.33	1,134.37	2,492.16	479.94	--
1899	37.63	1,536.33	2,799.20	572.01	3748.7
1909	26.86	1,346.69	2,449.73	526.00	3325.8
1919	19.31	--	2,334.31	517.99	3384.2

TABLE III - Continued

continued

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continued	continued	continued	continued

continued

continued	continued	continued	continued
continued	continued	continued	continued
continued	continued	continued	continued
continued	continued	continued	continued

ANIMAL PRODUCTS - BUTTER (Made on Farms)

Average Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1850 - 1920.)

UNITED STATES

Year	Unit Total Population (lbs)	Production Per Agricultural Worker (lbs)	Farm (lbs)	Per Milk Cow (lbs)	Per Farm Reporting Butter (lbs)
1879	15.50	101.35	193.33	62.46	--
1889	16.36	119.57	224.33	62.03	296.2
1899	14.63	102.66	186.86	62.54	262.6
1909	10.79	60.15	156.35	43.22	—
1919	--	--	--	--	--

NEW ENGLAND

1879	16.32	216.87	315.35	65.00	—
1889	13.44	207.49	332.54	76.35	—
1899	9.20	173.99	263.15	67.59	504.7
1909	6.22	145.03	215.74	43.39	490.7
1919	--	--	--	--	--

MASSACHUSETTS

1879	5.42	143.61	251.41	64.13	—
1889	3.73	119.39	243.13	43.53	—
1899	1.73	74.33	132.05	69.34	430.8
1909	1.00	50.10	91.14	19.57	372.4
1919	.52	--	63.01	13.71	274.3



(Title of report, author, and other pertinent  
 information)  
 in the  
 Department of the Interior, Geological Survey,  
 Washington, D. C., 1917

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97	Index	97	97
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99	References	99	99
100	Summary	100	100

England's production rose from 339,000,000 gallons in 1889 to 490,000,000 gallons in 1899, an increase of 44%; then it dropped 14% to 409,000,000 gallons in 1909 and to 365,000,000 gallons in 1919, a loss of 25% in twenty years. Massachusetts production rose from 82,000,000 to 105,000,000 gallons from 1889 to 1909, and has since dropped like New England, to 76,000,000 gallons.

The number of farms reporting milch cows in the United States increased 13% between 1889 and 1909 but dropped 5% in New England and 3% in Massachusetts, since 1909 there has been a still sharper decline amounting to about 28% in New England, 17% in Massachusetts. Massachusetts shows decidedly the best general yield per cow, amounting to about 500 gallons whereas New England as a whole drops to 450 gallons and the United States to 350 gallons. Apparently the yield per animal has decreased everywhere, a distinctly unfavorable symptom. Per farm reporting dairy cows, Massachusetts produced from 1889 to 1909 about 3,500 gallons of milk, New England 2,900 gallons of milk, and the United States only 1,500 gallons.

#### Butter and Cheese Made on Farms

Farm-made butter and cheese are not necessarily made in proportion to the total amount of milk produced; in fact, since 1879 the ratio between such production and the milk supply has declined constantly. The average farm is a small producer of butter and a negligible producer of cheese. Except in the case of Massachusetts, the production of butter and cheese per cow producing milk is less the more thickly populated the region, indicating a larger proportion of milk consumed as such. Roughly, four-fifths of the farms of the United States which produce milk also produce butter; in New England and Massachusetts not more than one third. Very few farms, less than 1/3 of 1%,

The first part of the book is devoted to a general survey of the history of the world, from the beginning of time to the present day. The author discusses the various stages of human development, from the primitive state to the modern era. He also touches upon the different civilizations and cultures that have shaped the world as we know it today.

The second part of the book is a detailed account of the political and social changes that have taken place in the world since the end of the Second World War. The author analyzes the rise of the superpowers, the Cold War, and the emergence of the Third World. He also discusses the impact of globalization and the challenges that the world is facing in the 21st century.

The book is written in a clear and concise style, making it accessible to a wide range of readers. It is a valuable resource for anyone interested in the history and future of the world.

THE HISTORY OF THE WORLD

The world has a long and rich history, and it is important to understand the events and people that have shaped it. This book provides a comprehensive overview of the world's history, from the beginning of time to the present day. It covers the major civilizations, empires, and cultures that have existed, and the political and social changes that have taken place. The author also discusses the impact of globalization and the challenges that the world is facing in the 21st century.

The book is written in a clear and concise style, making it accessible to a wide range of readers. It is a valuable resource for anyone interested in the history and future of the world.

ANIMAL PRODUCTS  
in the  
United States, New England and Massachusetts  
(Data from U.S. Censuses of 1880 - 1920.)

CHEESE MADE ON FARMS

Year	Total Production in Pounds			References
	United States	New England	Massachusetts	
1889	13,726,813	1,906,970	122,900	11C/36
1899	16,372,313	1,003,103	19,629	
1909	9,405,864	673,365	45,753	13C/433
1919	- - -	234,333#	60,796	23

Number of Farms Reporting Making Cheese

1899	15,669	1,697	34	
1909	12,054	817	30	13C/433
1919	- - -	855#	314	23

# Connecticut data not included because not yet published. In 1899 and 1909 respectively, 123 and 143 farms reported making 40,623 and 79,156 pounds of cheese; in 1889 the state produced 112,566 pounds.

EGGS PRODUCED ON FARMS

Year	Total Production in Dozens			References
	United States	New England	Massachusetts	
1879	456,910,916*	26,302,766	6,571,553	
1889	819,722,916*	35,533,234	3,931,393	11C/36
1899	1,293,662,433*	50,636,580	12,923,630	24/74
1909	1,591,311,371*	55,073,175	14,145,240	13C/514
1919	1,654,044,932**	37,631,896	9,604,274	23

Number of Farms Reporting Fowls

1900	5,095,230	153,638	30,504	11C/329ff.
1910	6,535,032	150,643	23,154	13C/415-16
1920	- - -	103,243#	25,425	25

# Connecticut data not included because not yet published; in 1900 and 1910 the state had just over 23,000 farms reporting fowls.

\* All eggs

\*\* Fowls eggs only

STATE OF TEXAS,  
COUNTY OF \_\_\_\_\_

PARTIAL LIST OF OWNERS

NAME	ACRES	SECTION	TOWNSHIP	RANGE
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...

...

PARTIAL LIST OF OWNERS

NAME	ACRES	SECTION	TOWNSHIP	RANGE
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...
...	...	...	...	...

...

ANIMAL PRODUCTS - EGGS

Average production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census reports, 1899 - 1929.)

UNITED STATES

Year	Unit Total Population (doz)	Production Per Agricultural Worker (doz)	Farm (doz)	Per Bird (doz)	Farms Reporting Fowls (doz)
1889	13.09	55.79	179.53	5.37	—
1899	17.00	123.94	225.43	6.16	253.9
1909	17.26	133.19	250.15	5.33	284.9
1919	--	--	--	--	--

NEW ENGLAND

1889	7.50	110.73	137.03	5.32	—
1899	9.07	170.32	204.15	7.67	319.4
1909	5.41	196.13	291.73	7.15	365.6
1919	5.12	--	240.30	6.43	—

MASSACHUSETTS

1889	3.99	123.10	259.33	5.23	—
1899	4.61	194.27	342.30	3.05	423.8
1909	4.20	210.63	333.10	7.37	502.4
1919	2.49	--	300.12	6.00	377.8

\* Per Chicken

STATE OF CALIFORNIA

DEPARTMENT OF REVENUE

1914

STATE OF CALIFORNIA, DEPARTMENT OF REVENUE, OFFICE OF THE COMMISSIONER, SACRAMENTO, CALIFORNIA, JANUARY 1, 1914.

STATE OF CALIFORNIA

STATE OF CALIFORNIA  
DEPARTMENT OF REVENUE  
OFFICE OF THE COMMISSIONER  
SACRAMENTO, CALIFORNIA

NAME	AMOUNT	DATE
...	...	...
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STATE OF CALIFORNIA

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STATE OF CALIFORNIA

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make cheese. Production per worker, per milk cow and per farm generally declined sharply from 1899 to 1909 except in the case of the unimportant cheese production of New England per farm and of Massachusetts per cow.

#### Eggs

From 1879 to 1909 egg production totals rose everywhere, more than keeping pace with population as a whole, which is not true of the other animal products considered. From 1909 to 1919 New England and Massachusetts show loss of production per capita of population and per farm due to decrease in poultry. Yield per bird seems to have increased up to 1909, likewise per farm. This increase was most apparent in Massachusetts. Related to this last is the fact that in New England and Massachusetts total production increased 10% while the number of farms reporting fowls dropped 5%.

#### Wool

Wool production figures are available since 1899 only, hence are not of sufficient duration to allow much weight to be placed upon them. National production increased slightly in spite of no increase in the number of sheep of shearing age. From 1899 to 1919 production in New England fell off three-fifths from 3,500,000 pounds; in Massachusetts production fell almost as much from 196,000 pounds. The New England production at best was barely 1% of the national and the Massachusetts output only  $\frac{1}{2}$  of 1%. Wool is nearly gone from New England, having suffered a further sharp decline of 40% between 1909 and 1919.

#### Market Garden Products

Market garden products are of exceedingly varied nature and admit of little comparison as a whole except in value. And value is none too satisfactory a basis since money values change. Moreover,



The first part of the book is devoted to a general survey of the history of the world, from the beginning of time to the present day. The author discusses the various stages of human development, from the primitive state to the modern era. He also touches upon the different civilizations and cultures that have shaped the world as we know it today.

### Chapter I

The first chapter deals with the origin of life and the evolution of man. It explores the scientific theories of evolution and the fossil record. The author discusses the transition from simple organisms to complex life forms, and eventually to the emergence of the human species. He also touches upon the social and cultural evolution of early man, from the nomadic hunter-gatherer lifestyle to the development of agriculture and the formation of permanent settlements.

### Chapter II

The second chapter focuses on the ancient world, covering the civilizations of Mesopotamia, Egypt, Greece, and Rome. It discusses the political, social, and cultural achievements of these ancient societies. The author explores the rise and fall of these empires, and the impact they had on the development of Western civilization. He also touches upon the religious and philosophical ideas that emerged during this period, such as the concept of democracy in ancient Greece and the legal system in Rome.

### Chapter III

The third chapter discusses the Middle Ages, from the fall of the Roman Empire to the beginning of the Renaissance. It covers the rise of feudalism, the Crusades, and the growth of the Catholic Church. The author explores the social and economic changes that took place during this period, and the impact of the Black Death and the Hundred Years' War. He also touches upon the emergence of the nation-state and the beginning of the modern world.

**ANIMAL PRODUCTS**  
 in the  
 United States, New England and Massachusetts  
 (Data from U.S. Censuses of 1900 - 1920.)

Year	Total Production in Pounds			References
	United States	New England	Massachusetts	
1899	276,567,584	3,557,230	195,376	
1909	239,419,977	2,006,040	127,897	137/503
1919	228,795,354	1,379,833	83,353	25

Number of Farms Reporting Sheep (of any age)

1899	763,513	34,145	1,447	
1909	610,394	20,340	1,023	137/502
1919	- - -	14,625	939	25

Connecticut data not included because not yet published; in 1900 and 1910 respectively the state reported sheep on 1,253 and 741 farms.

1890  
 No. 10  
 The following are the names of the persons  
 who have been appointed to the office of  
 Justice of the Peace for the year 1890

Ward	Name	Residence	Qualification	Age
1st	John A. Smith	123 Main St.	10 years	35
2nd	James B. Jones	456 Elm St.	12 years	40
3rd	William C. Brown	789 Oak St.	8 years	28
4th	Robert D. White	101 Pine St.	15 years	45
5th	Thomas E. Green	234 Cedar St.	10 years	30
6th	Charles F. Black	567 Birch St.	12 years	38
7th	Edward G. Gray	890 Spruce St.	8 years	25
8th	Frank H. Hall	1122 Walnut St.	15 years	42
9th	George I. King	1444 Chestnut St.	10 years	32
10th	Henry J. Lee	1766 Locust St.	12 years	36

The names of the persons who have been appointed to the office of Justice of the Peace for the year 1890 are as follows:

ANIMAL PRODUCTS - WOOL

Average Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1890 - 1920.)

UNITED STATES

Year	Unit Total Population (lbs)	Production Per		Sheep of Shearing Age (lbs)	Per Farm Reporting Sheep of any age (lbs)
		Agricultural Worker (lbs)	Farm (lbs)		
1899	3.63	26.49	40.64	6.94	362.2
1909	3.14	23.31	45.50	7.30	475.8
1919	--	--	--	--	--

NEW ENGLAND

1899	.64	10.37	13.54	6.32	104.5
1909	.31	7.15	10.63	6.54	98.6
1919	.19	--	3.31	7.20	--

MASSACHUSETTS

1899	.07	2.94	5.19	3.73	135.4
1909	.04	1.90	3.40	3.63	124.4
1919	.02	--	2.76	6.25	94.1

STATE OF TEXAS

COMMISSIONERS OF THE GENERAL LAND OFFICE

ORDER OF THE COMMISSIONERS OF THE GENERAL LAND OFFICE

SECTION 1

Section	Acres	Value	Remarks
1	100.00	100.00	
2	100.00	100.00	
3	100.00	100.00	
4	100.00	100.00	

SECTION 2

1	100.00	100.00
2	100.00	100.00
3	100.00	100.00

SECTION 3

1	100.00	100.00
2	100.00	100.00
3	100.00	100.00

ANIMAL PRODUCTS - CHEESE (Made on Farms)

Average Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1890 - 1920.)

UNITED STATES

Year	Unit Total Population (lbs)	Production Per Agricultural Worker (lbs)	Farm (lbs)	Per Milk Cow (lbs)	Per Farm Reporting Cheese (lbs)
1839	.30	5.19	4.10	1.13	--
1899	.22	1.57	2.35	.96	1044.9
1909	.10	.76	1.43	.46	780.3
1919	--	--	--	--	--

NEW ENGLAND

1839	.41	6.26	10.04	2.32	--
1899	.13	3.49	5.23	1.12	591.1
1909	.10	2.40	3.57	.50	824.8
1919	--	--	--	--	--

MASSACHUSETTS

1839	.05	1.31	3.53	.71	--
1899	.01	.29	.52	.11	233.7
1909	.01	.63	1.24	.37	571.9
1919	.02	--	1.90	.41	193.6

(Printed on behalf of the Government of India)

GOVERNMENT OF INDIA

MINISTRY OF DEFENCE  
OFFICE OF THE SECRETARY  
NEW DELHI

STATEMENT OF WORKS

Sl. No.	Description of Work	Quantity	Rate	Total
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the census data concerning this class of farm products are unsatisfactory none being taken from the Thirteenth Census, 1909, in which it was impossible to differentiate data as desired. In general, the products considered are those miscellaneous vegetables and small fruits grown for sale within short distances of the producing point, distinguishing them partly from truck crops which are shipped long distances to markets. The values given for 1919 consist of those of vegetables raised for sale and those of small fruits, and are probably fairly comparable to the other figures given so far as Massachusetts is concerned.

The figures show only a moderate rise in sales values from 1869 to 1889, then in 1899 a jump from \$29,000,000 to \$99,000,000 for the United States; from \$3,500,000 to \$8,000,000 for New England; and from \$3,250,000 to \$4,800,000 for Massachusetts. This great increase is due in part to increase in urban non-producing population. The improved transportation facilities doubtless allowed increase of sales of truck crops. The difference in methods in securing census figures may explain even more. The increase of sales in New England and Massachusetts from 1899 to 1919 seems fairly comparable as given here, from \$8,111,783 to \$14,505,938, 79%, for New England; from \$4,833,542 to \$10,532,871, 118%, for Massachusetts.

#### Farm Values

Gross farm values of all farm products are given for the first time for 1879 by the Tenth Census. In 1879 the products of the farms of the United States were valued at \$2,212,000,000; those of New England at \$103,000,000; and those of Massachusetts at \$24,000,000. Merely moderate rises occurred up to 1889. From then to 1909 come jumps of 92%, 50% and 51% respectively, to \$6,000,000,000 for the nation, \$248,000,000 for New England, \$60,000,000 for Massachusetts. These values included vegetable and animal products and animals sold and slaugh-



The first part of the report deals with the general situation of the country and the progress of the work done during the year. It then goes on to discuss the various departments and the work done in each of them. The report is very detailed and covers a wide range of subjects. It is a valuable document for anyone interested in the affairs of the country.

The second part of the report deals with the financial statement of the country for the year. It shows the income and expenditure of the country and the balance of the account. It also shows the progress of the work done in each of the departments. The report is very detailed and covers a wide range of subjects. It is a valuable document for anyone interested in the affairs of the country.

Financial Statement

The financial statement of the country for the year shows a total income of £1,000,000 and a total expenditure of £950,000. The balance of the account is £50,000. The report also shows the progress of the work done in each of the departments. The report is very detailed and covers a wide range of subjects. It is a valuable document for anyone interested in the affairs of the country.

VALUE OF TOTAL SALES OF  
MARKET GARDEN PRODUCTS SOLD

in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1869 - 1919).

Year	United States	New England	Massachusetts	References
1869	\$ 20,719,229.	\$3,324,701.	\$1,980,231.	
1879	21,761,250	2,643,667	1,696,890	
1889	23,073,080	3,951,717	2,255,309	
1899	98,894,319	6,111,783	4,833,542	24/51, 52
1909	(No complete data obtainable)			
1919*	- -	14,505,938	10,522,871	38

STATE OF TEXAS  
COUNTY OF DALLAS

Know all men by these presents, that I, the undersigned, do hereby certify that the following is a true and correct copy of the original as the same appears from the records of the County of Dallas, State of Texas, to-wit:

Page	Volume	Page	Volume	Page
1	100	1	100	1
2	100	2	100	2
3	100	3	100	3
4	100	4	100	4
5	100	5	100	5
6	100	6	100	6
7	100	7	100	7
8	100	8	100	8
9	100	9	100	9
10	100	10	100	10

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of the County of Dallas, State of Texas, this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_.

\_\_\_\_\_  
County Clerk

tered, which latter involves considerable duplication because of repeats. The Fourteenth Census did not ask these figures.

Massachusetts has greatest values of products from the standpoints of farm, agricultural worker, acre of improved land, work animal; New England comes next, except <sup>that</sup> occasionally the United States farm as a whole produces more. Values are usually influenced by distance to market, and little study is required to see that New England farm values are often markedly higher than those of the west producing the same products; hence the west is handicapped in comparison of values, and New England is somewhat at a disadvantage in comparison to Massachusetts. The greatest differences occur in the values per agricultural worker and per farm and per work animal. All these values tend to rise in the long run. Per farm, the United States production has risen from \$550 to \$950, from 1879 to 1909; New England lagged a little behind until the finish at \$1,300; Massachusetts values rose from \$630 to \$1,615. Per work animal, the United States production increased from \$195 to \$350 in round numbers; New England's from \$225 to \$720; while that of Massachusetts rose from \$325 to \$945. Per worker, the United States produced \$290 in 1879 and \$500 in 1909. New England produced \$340 per worker in 1879; this had increased by 1909 to \$830. In 1879 Massachusetts produced \$370 per worker and by 1909 had increased the amount to \$885. The larger part of these rises came from 1879 to 1909, values often barely holding their own up to 1879.

Gross values are not as satisfactory as net values upon which to base judgment, and census data give no items of expense until 1899 except accounts spent for fertilizer; then labor expenses are reported, and in 1909 feed costs. Mortgage data were given for 1909, but are not considered here.



1909 and NET VALUE of ALL WASH PRODUCTS  
in the  
United States, New England and Massachusetts.  
(Data from U.S. Censuses of 1880 - 1930.)

Year	<u>Gross Value</u>			References
	United States	New England	Massachusetts	
1879	\$ 2,212,540,927	\$ 105,343,566	\$ 24,160,331	
1889	2,460,107,454	100,390,360	23,072,500	118/35
1899	4,739,113,732	169,523,435	42,293,274	122/Texas
1909	6,061,996,923	247,693,431	59,623,330	
1919	- - -	- - -	57,551,317	

\* Totals derived from table below, "Values, 1909 and 1919"

† The Fourteenth Census did not ask Value of Animals Sold and Slaughtered; 1909 figures for Massachusetts with that item deducted are \$ 53,243,300.

Year	<u>Net Value</u>			References
	United States	New England	Massachusetts	
1909	\$ 4,995,662,343	\$ 169,171,301	\$ 52,741,900	
1919	- - -	- - -	46,795,110	

Values, 1909 and 1919.  
(List of items as per Table XVII,  
12th Census of the U.S., Vol. V, p. xxxi.)

Product	<u>1909</u>			References	<u>1919</u>	
	United States	New England	Massachusetts		Massachusetts	References
Wool	\$ 68,472,323	\$ 574,577	\$ 33,070	130/503	\$ 55,666	
Woolair	901,397	1,375	309	130/504	337	
Milk, Butter and Cheese	643,354,339	53,962,693	14,555,327	130/430	24,765,523	
Eggs	306,635,960	15,155,894	4,230,445	130/515	6,050,693	
Poultry	202,906,272	7,361,033	2,411,073	130/513	2,953,314	
Honey & Wax	5,922,023	103,323	12,176	130/513	25,360	33/3
Animals Sold and Slaughtered	1,833,170,437	39,410,730	6,020,530	130/525	- - -	
Field Crops	<u>2,991,704,412</u>	<u>141,113,389</u>	<u>31,943,095</u>	130/533, 545	<u>33,729,925</u>	35/9
TOTAL	\$ 6,061,996,923	\$ 247,693,431	\$ 59,623,330		\$ 57,551,317	
Less Animals Sold and Slaughtered			<u>6,020,530</u>			
			\$ 53,243,300			

STATE OF TEXAS, COUNTY OF ...

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FAIR EXPENDITURES for  
LABOR, FUEL and FERTILISERS  
in the  
 United States, New England and Massachusetts.  
 (From Censuses of 1830 - 1930.)

Year	United States	<u>Labour</u>		Differences
		New England	Massachusetts	
1899	\$ 365,305,921	\$ 20,727,930	\$ 7,487,230	189/1705
1909	691,611,237	34,500,407	12,101,959	154/565
1919	- - -	- - -	16,577,123	31

Year	United States	<u>Fuel</u>		Differences
		New England	Massachusetts	
1909	\$ 299,339,357	\$ 34,613,964	\$ 10,373,173	184/593
1919	- - -	- - -	20,273,351	31

Year	United States	<u>Fertiliser</u>		Differences
		New England	Massachusetts	
1879	\$ 23,536,397	\$ 1,796,436	\$ 653,432	
1889	38,469,593	3,599,314	896,560	
1899	54,783,737	4,297,705	1,320,620	120/1703
1909	114,334,541	9,497,759	1,965,632	134/562
1919	- - -	- - -	3,906,733	31

Year	<u>Total of Above Expenses</u>			Differences
	United States	New England	Massachusetts	
1909	\$ 1,096,333,635	\$ 73,522,130	\$ 26,835,370	
1919	- - -	- - -	40,756,707	



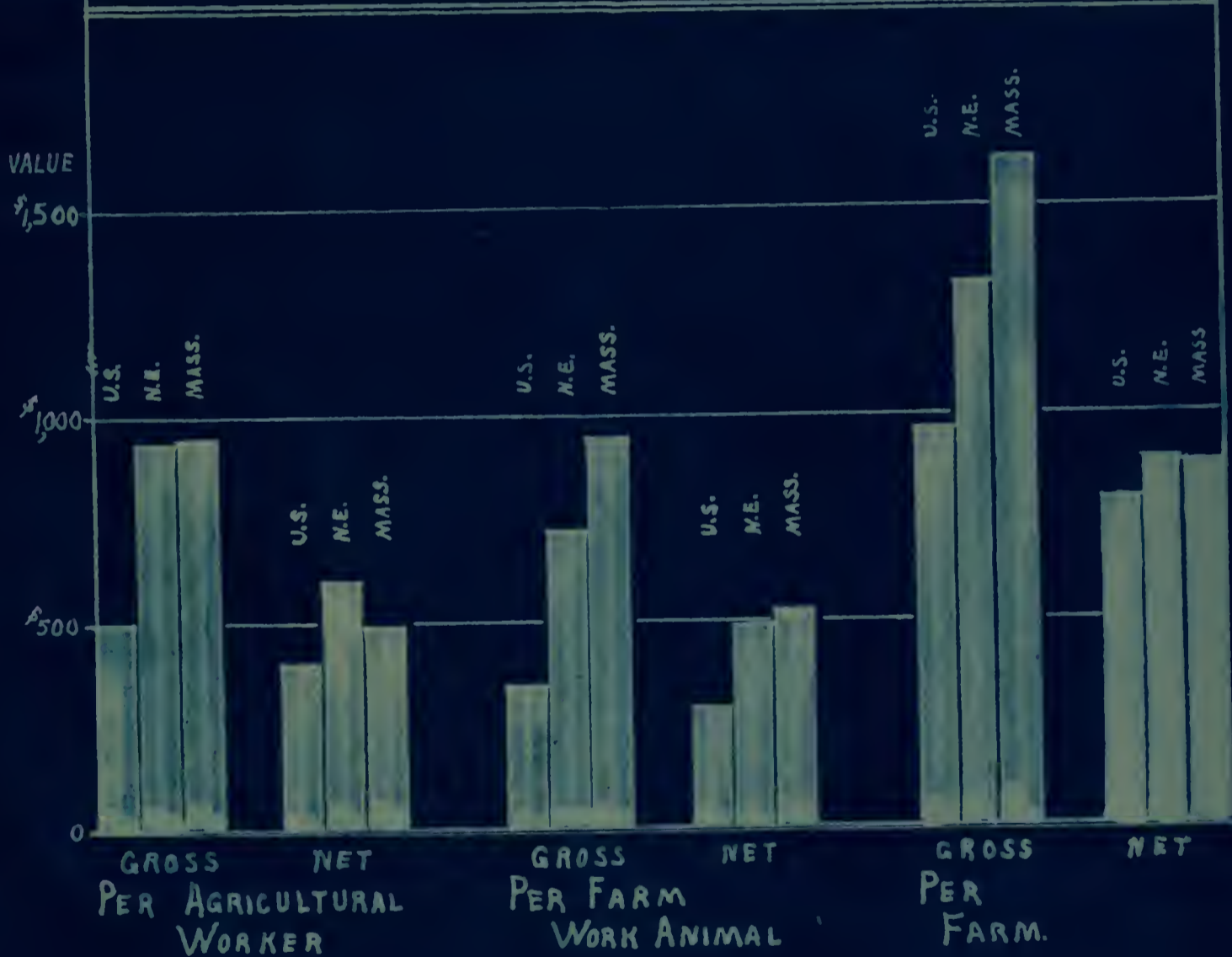
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1918	1919	1920	1921	1922
1923	1924	1925	1926	1927
1928	1929	1930	1931	1932
1933	1934	1935	1936	1937

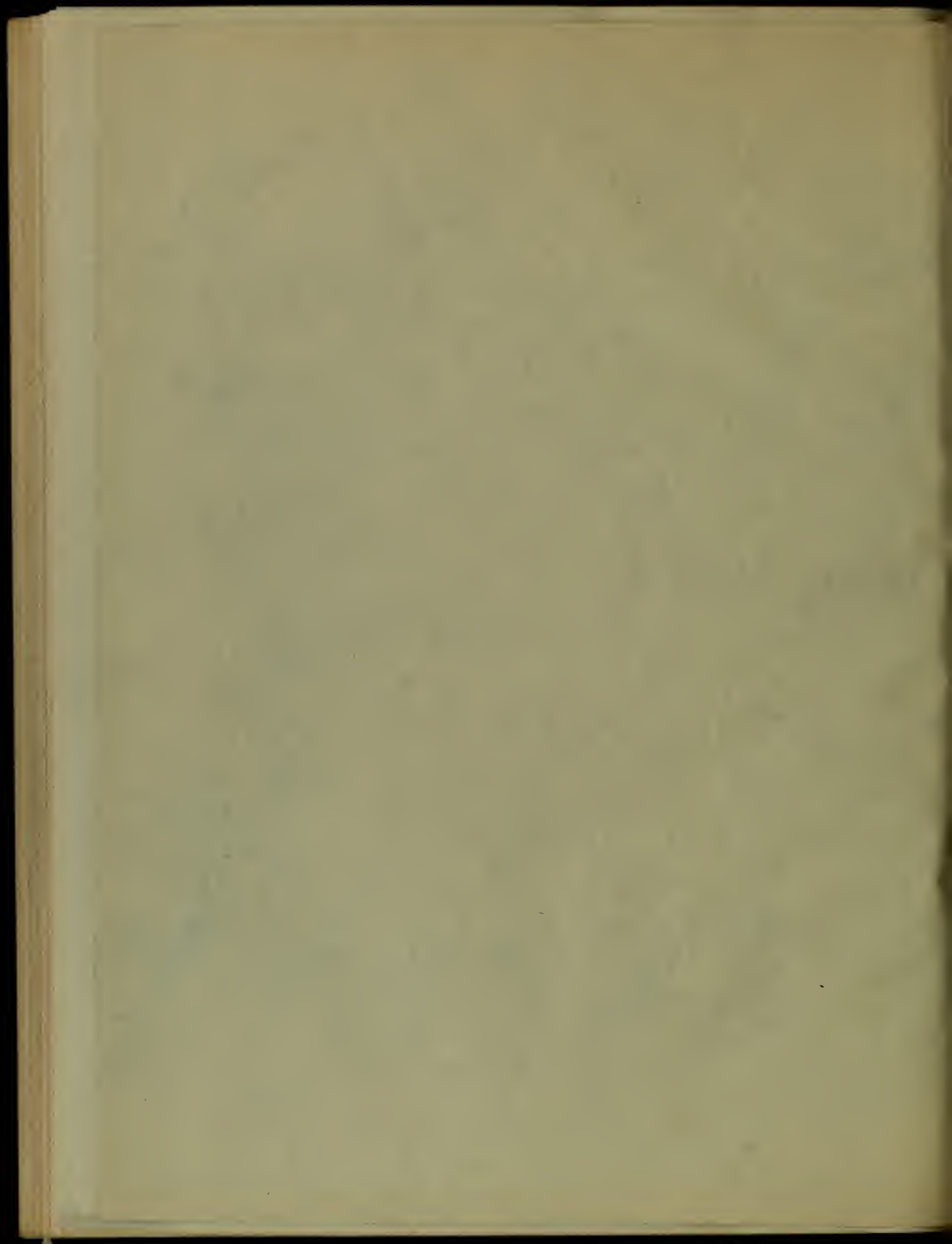
1938	1939	1940	1941	1942
1943	1944	1945	1946	1947

1948	1949	1950	1951	1952
1953	1954	1955	1956	1957
1958	1959	1960	1961	1962
1963	1964	1965	1966	1967
1968	1969	1970	1971	1972

1973	1974	1975	1976	1977
1978	1979	1980	1981	1982



ALL FARM PRODUCTS  
 AVERAGE GROSS AND NET FARM VALUES OF 1909 PRODUCTION  
 IN THE  
 UNITED STATES, NEW ENGLAND AND MASSACHUSETTS.  
 - FROM U.S. CENSUS DATA.



ALL FARM PRODUCTS.

Average Gross Farm Value of Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1880 - 1920.)

UNITED STATES

Year	Unit Total Population	Acre Improved Farm Land	Farm	Work Animal	Agricultural Worker.
1879	\$44.11	\$ 7.70	\$551.91	\$194.91	\$258.45
1889	39.28	6.88	538.95	152.93	387.20
1899	39.41	7.23	522.66	193.39	387.28
1909	65.77	12.80	952.92	347.78	499.19
1919	--	--	--	--	--

NEW ENGLAND

1879	\$25.77	\$ 7.86	\$498.69	\$223.86	\$342.41
1889	22.63	9.91	560.15	221.50	349.45
1899	17.03	11.71	496.22	260.84	331.23
1909	37.80	34.14	1311.92	720.40	832.22
1919	--	--	--	--	--

MASSACHUSETTS

1879	\$13.55	\$11.35	\$629.09	\$325.62	\$371.86
1889	13.54	16.94	816.68	382.10	402.65
1899	8.25	17.92	614.01	321.91	348.54
1909	15.74	51.21	1615.21	944.08	887.92
1909*	14.06	45.73	1433.48	843.06	792.91
1919	22.73	96.33	2735.91	1788.05	--

- \* The Fourteenth Census did not ask the value of animals sold and slaughtered. The second 1909 set of values for Massachusetts is the same as the one above minus that item, the better to make comparisons with 1919 figures.

STATE OF TEXAS

COMMISSIONERS OF THE GENERAL LAND OFFICE

REPORT OF THE COMMISSIONERS OF THE GENERAL LAND OFFICE FOR THE YEAR ENDING DECEMBER 31, 1901

STATE LANDS

CLASS OF LAND	ACRES	AMOUNT PAID	REVENUE	REMARKS
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STATE DEBTS

CLASS OF DEBT	AMOUNT	REMARKS
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STATE REVENUE

CLASS OF REVENUE	AMOUNT	REMARKS
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The Commission has the honor to acknowledge the receipt of the report of the Auditor General for the year ending December 31, 1901, and to state that the same has been read and found correct.

ALL FARM PRODUCTS.

Average Net Farm Value of Production  
in the  
United States, New England and Massachusetts  
(Calculated from U.S. Census Reports, 1909, 1919.)

UNITED STATES

Year	Unit Total Population	Acre Improved Farm Land	Farm Value	Work Animal	Agricultural Worker
1909	\$54.19	\$10.55	\$785.30	\$286.61	\$402.43

NEW ENGLAND

1909	\$25.62	\$23.32	\$896.02	\$492.03	\$602.55
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MASSACHUSETTS

1909	\$ 9.73	\$28.12	\$856.91	\$518.39	\$467.55
1909*	7.83	23.64	714.07	417.37	392.54
1920	12.15	51.51	1462.30	855.68	--

- \* The Fourteenth Census did not ask the value of animals sold and slaughtered. The second ~~1909~~ <sup>1909</sup> set of values for Massachusetts is the same as the one above minus that item, the better to make comparisons with 1919 figures.

*This is given*

ALL THE FOLLOWS

George W. Hill, Esq. of New York  
1900  
New York, N.Y. 10001  
(Incorporated in the State of New York)

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Year	Date Paid	Amount	Balance
1900	Jan 1	100.00	100.00

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1901	Jan 1	100.00	100.00
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1902	Jan 1	100.00	100.00
1903	Jan 1	100.00	100.00
1904	Jan 1	100.00	100.00

The undersigned hereby certifies that the above is a true and correct copy of the original records of the company as the same appear in the books of the company.

Witness my hand and seal this 1st day of January, 1900.

The net farm values considered are those obtained by subtracting from the gross farm values of all products the amounts paid for fertilizers, feeds and labor. These net values were first obtained for 1909 and were for the United States, \$5,000,000,000; for New England, \$170,000,000; for Massachusetts, \$33,000,000. The deductions amount respectively to 17%, 32% and 45%. In other words, the United States farmer spends one-sixth of the gross farm value of his products for purchases of food, labor and fertilizer, the New Englander one-third, the Massachusetts man almost half. The effects of these deductions are distinctly shown in the leveling of the gross to net values per worker and work animal, and especially per farm; they are graphically shown in the graph of gross and net farm values of farm products. The New England farm makes almost \$900 net, the Massachusetts farm makes \$10 less, and the average farm of the United States makes \$800. Somewhat similar relations occur in the case of work animals except that the United States figure is \$230 below that for Massachusetts which is \$518; New England's is \$492. But per worker, the New England man makes \$600 a year, the Massachusetts man \$490, while the worker for the United States makes \$400. Net production per worker is the best basis of comparison.

#### Summary of Production

In general, Massachusetts has lost most of her small grain production; New England has gained in hay production the crop being the most valuable of those of New England and Massachusetts (13c/370, 731) in 1909. In hay and forage New England leads per worker. In potato production New England leads per acre and per worker; Massachusetts, though less than New England, still shows higher figures than those of the United States. The tobacco crop has shown great gains in acreage and production, the Massachusetts rate exceeding others. Massachusetts



The first part of the document is devoted to a general survey of the situation in the country. It is found that the economic conditions are generally satisfactory, but there are some points which require attention. The agricultural sector is showing signs of improvement, and the industrial sector is also making progress. However, the services sector is still lagging behind. It is suggested that the government should take steps to improve the services sector, and to provide more support to the agricultural and industrial sectors. The second part of the document deals with the financial situation. It is found that the government's finances are in a sound state, and that the country's creditworthiness is high. It is suggested that the government should continue to maintain a prudent financial policy, and to use the resources available to it in a wise and economical manner. The third part of the document deals with the social situation. It is found that the social conditions are generally good, but there are some points which require attention. It is suggested that the government should take steps to improve the social conditions, and to provide more support to the poor and the underprivileged. The fourth part of the document deals with the political situation. It is found that the political situation is generally stable, and that the government is enjoying the confidence of the people. It is suggested that the government should continue to maintain a democratic and accountable system of government, and to work towards the betterment of the country.

**CONCLUSIONS**

In general, the country is making progress in all the main areas of development. It is suggested that the government should continue to maintain a prudent financial policy, and to use the resources available to it in a wise and economical manner. It is also suggested that the government should take steps to improve the social conditions, and to provide more support to the poor and the underprivileged. The political situation is generally stable, and the government is enjoying the confidence of the people. It is suggested that the government should continue to maintain a democratic and accountable system of government, and to work towards the betterment of the country.

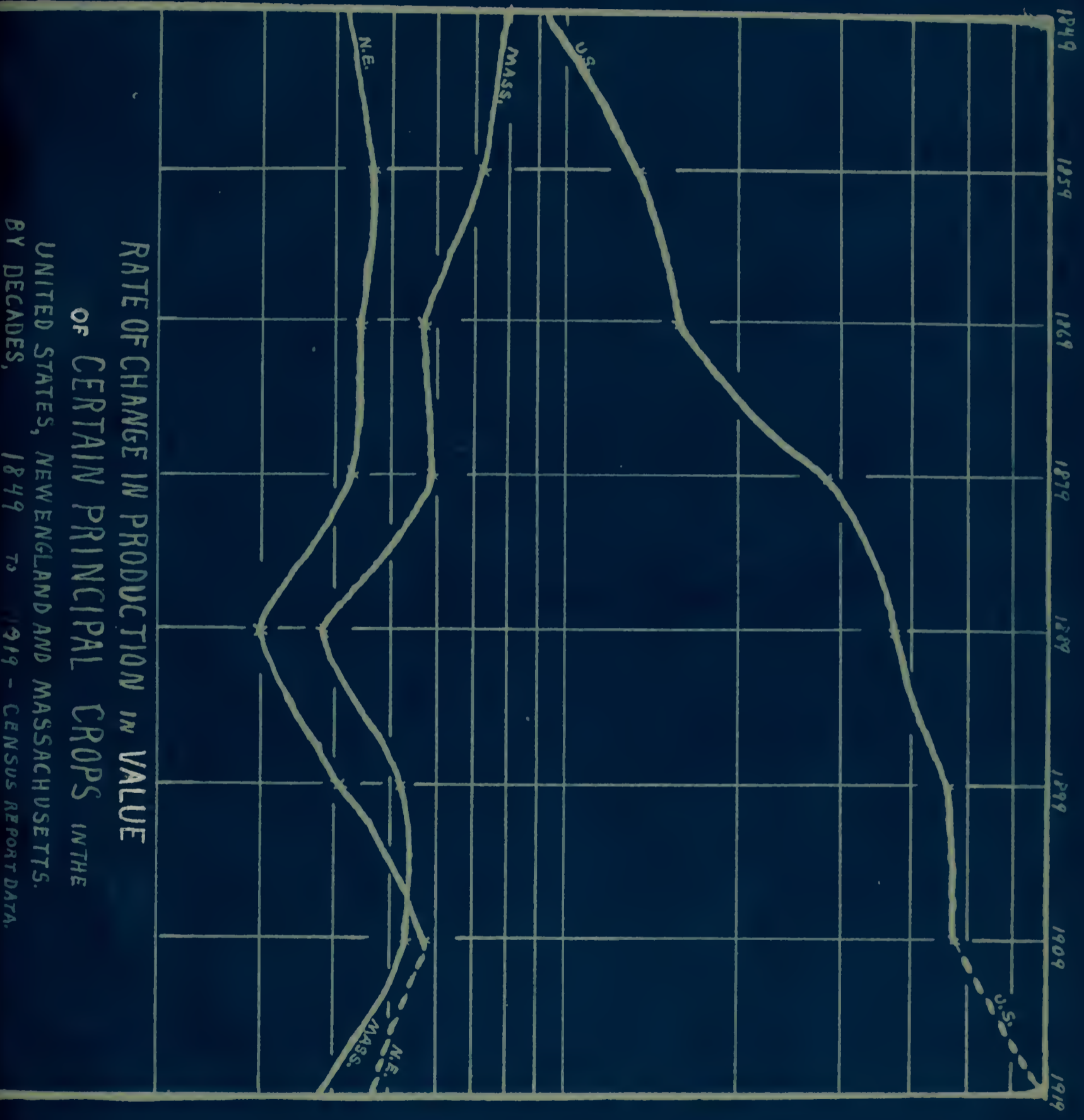
Crops considered in the graph showing

"Rate of Change in Production in Value  
of Certain Principal Crops in the  
United States, New England and Massa-  
chusetts"

are Barley, Buckwheat, Indian Corn, Hay and  
Forage, Oats, Irish or White Potatoes, Dry  
Pease and Beans, Rye and Wheat.

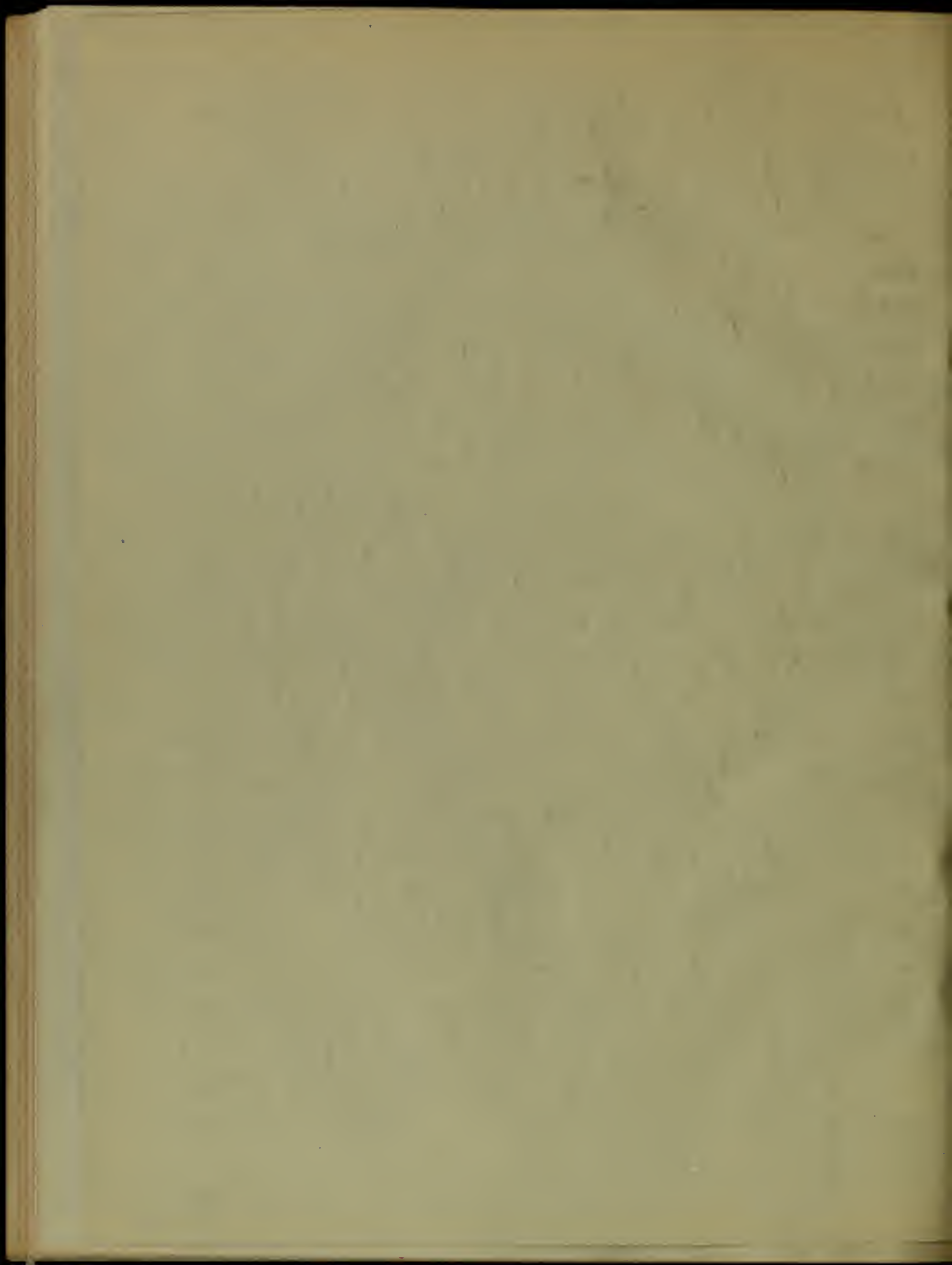
From the above it is seen that  
the value of the function at the  
point (1, 2) is 10. The value  
of the function at the point (2, 3)  
is 17. The value of the function  
at the point (3, 4) is 26.

The above results show that the  
value of the function increases  
as the values of x and y increase.



RATE OF CHANGE IN PRODUCTION IN VALUE  
 OF CERTAIN PRINCIPAL CROPS IN THE  
 UNITED STATES, NEW ENGLAND AND MASSACHUSETTS.  
 BY DECADES, 1849 TO 1919 - CENSUS REPORT DATA.

1849 1859 1869 1879 1889 1899 1909 1919



leads in production of tobacco per worker, New England following closely and leading slightly in yield per acre.

In tree fruits, Massachusetts' apple yield has made great gains, doubling - in contrast to New England which shows but slight gain and to the United States where no change is reported. Likewise the yield per bearing tree, per farm and per worker has grown until Massachusetts leads the nation. New England leads in bearing peach trees. Massachusetts produces more pears per tree than the rest of the country. But on the whole, the tree fruits have not gained in proportion to population.

New England holds the lead in maple sap production per farm and per worker, but Massachusetts has lost much of her small amount.

In small fruits, Massachusetts leads in all ways in production of cranberries compared with the rest of the nation; the State is losing in the total production of strawberries, fewer farms growing them, but still leads in yield per crop acre, per worker, and per farm. It is not safe to place too much confidence in conclusions based upon these limited data, but the other small fruits collectively seem to be declining in total production. Massachusetts still leads per worker.

All New England is gradually losing her dairy cattle; Massachusetts has the most productive animals, 500 gallons per cow; New England cows average 450 gallons. The data used seem to indicate decreasing yields per animal. Butter production in all New England is declining, being very small at best; so little cheese is made as to be negligible.

Up to 1909 Massachusetts gained in total egg production somewhat as in population. In production per bird and farm, the state takes first place.

New England's wool clip is nearly negligible and still

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declining in comparison with that of the rest of the nation.

In value of market garden products Massachusetts is steadily gaining, both in absolute value and in proportion to value of all farm products, but losing in value of animal products. The total value of all farm products is gaining steadily, more than keeping up with the increase of population. For New England the value of all farm products is gaining as steadily; the proportions of crop and animal products tend to remain about the same; and the relatively small market gardening also rises slowly. Total values of farm products in the United States, New England and Massachusetts are rising at almost the same rates and somewhat faster than increases of population at the same time.





IV. PRODUCTION OF FARM PRODUCTS IN RELATION TO  
POPULATION AND CONSUMPTION NEEDS IN NEW ENGLAND AND MASSACHUSETTS.

It is often said New England should produce more foodstuffs than she does at present. Is it possible to do this at a fair profit on our soils? That will determine whether or not it will be done.

The tendency of much land once improved has been to go back to sprout or woodland, and much land more readily tillable than this lies idle. One estimate (40) states that in New England 2,500,000 acres assessed at \$10 or less per acre can be, presumably even at present high costs, made ready and equipped with buildings and tools for \$100 or less per acre. That addition would be equivalent to the whole amount of farm lands of Massachusetts and two-fifths the improved farm acreage of New England. Another estimate (35) states that nearly 2,000,000 idle acres in Massachusetts alone are capable of producing food.

Much of this idle soil is capable of production. The United States Department of Agriculture considers (34/37) New England soils merely neglected, not worn out, responsive to proper use; the problems are said to be simply those of finding the soilities of the varied soils and crops suited to them. It calls attention to the great extent of virgin soil in northern New England. That it is not usually profitable to grow crops requiring extensive culture - such as grains - in New England is generally admitted. That too often pioneers in the states made mistakes in selection of farm sites and that their successors often fought the handicaps of these errors is also true. As years went by and developments in the nation's agricultural processes took place, these handicaps proved too burdensome, and the lands were abandoned (41). Whereas once topography counted for comparatively little, machinery has become an important part of modern farm equipment, requiring for economi-

THE HISTORY OF THE UNITED STATES

CHAPTER I. THE DISCOVERY OF AMERICA

In the year 1492, Christopher Columbus, an Italian navigator, sailed from Spain in search of a westward route to the Indies. He discovered the continent of America on October 12, 1492. Columbus's discovery of America opened the way for European exploration and settlement of the New World. The first European to set foot on the continent was Christopher Columbus in 1492. He was followed by other explorers, including Amerigo Vesputi, who gave his name to the continent. The discovery of America led to the development of the Americas as a major world power.

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and usefulness larger fields, greater freedom from rocks and more level lands. New Englanders have too long clung to old-time ways and means, reluctant to change. When the signs of the times are recognized and fully complied with, it will result in readjustment of farm lands, farm crops and farm methods. It has already been noted that there has been and is now a tendency of value of <sup>certain</sup> classes of farm products to change in proportion, whether voluntary or involuntary.

Much New England farming has proved unprofitable because outsiders have been able to undersell the nearby producers, and this is due chiefly to the fact that New England production is usually on a small scale and each unit produces a variety of products of varying standards, often lacking conformity to any reasonable standard of excellence. In addition to being a small producer, the New Englander is an unorganized worker, showing little or no interest in cooperation in production, in pooling of goods, or in marketing. The dealer seeking a large quantity of uniform, dependable farm products is likely to look elsewhere than to a New England producer; he knows he can seldom get the required bulk of one farmer and that he can seldom get standardized products. Community uniformity of methods, pooling of crops and careful packing and shipping - in other words, cooperative action adapted to the situation - carried into effect would work wonders in more places than the few where it has been attempted successfully. It should help farmers displace shipped-in products with their own as far as they can produce and sell them profitably in competition with the others. Better roads and transportation facilities are now needed to bring back within profitable reach of markets many districts well adapted to production of crops.

The first part of the paper discusses the general principles of the theory of the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics. The second part of the paper discusses the application of these principles to the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics. The third part of the paper discusses the application of these principles to the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics. The fourth part of the paper discusses the application of these principles to the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics. The fifth part of the paper discusses the application of these principles to the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics. The sixth part of the paper discusses the application of these principles to the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics. The seventh part of the paper discusses the application of these principles to the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics. The eighth part of the paper discusses the application of these principles to the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics. The ninth part of the paper discusses the application of these principles to the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics. The tenth part of the paper discusses the application of these principles to the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics.

The accompanying tables of the various agricultural products show production per unit or per capita. Massachusetts since 1869 or 1859 has grown upon this basis annually less and less of the small grains and of corn until her production, small at best, is insignificant. Even potatoes have dwindled from  $2 \frac{3}{5}$  bushels per capita, probably almost enough for a person, to a half bushel. Of the field crops, tobacco alone shows gain on the whole; but tobacco is not a food.

Of tree fruits, Apples tend to hold their own in comparison with population each year, Massachusetts producing about  $\frac{3}{4}$  bushel per capita; the small production of peaches gains, while that of pears drops slightly. Maple sugar and syrup considered as sugar have dropped from nine-tenths of a pound to one-eighth of a pound. In cranberry production Massachusetts leads, much more than supplying its own needs while it falls low in strawberries and small fruits.

In animal products, Massachusetts provides less and less, in 1909 about 27 gallons of milk per capita; in 1919 this had fallen to barely 30 gallons. Of butter she produced about a pound per capita per year, almost no cheese or wool and about one egg for each person per week in 1909, and even this had fallen about 50% in 1919. In all these respects, Massachusetts would starve in a hurry if compelled to shift for herself. The addition that market garden products might make would amount to less than two dollar's worth per person a year.

As to New England, the situation as to small grains is practically the same as that of Massachusetts, but with the production of oats declining most slowly. Corn tends to decline at about the same rate. Hay and forage when compared to the numbers of livestock are ample for its needs. New England leads the country in white potato production, providing five to six bushels per capita, enough for the ordinary consumption of its population.

The first part of the book is devoted to a general introduction to the subject of the history of the English language. The author discusses the various theories of the origin of the English language and the influence of the different languages which have contributed to its formation. He also deals with the question of the standardization of the English language and the role of the various dialects.

The second part of the book is devoted to a detailed study of the history of the English language from the beginning of the 15th century to the present day. The author discusses the changes in the vocabulary, the grammar, and the pronunciation of the English language over this period. He also deals with the influence of the various literary movements and the social changes which have shaped the English language.

The third part of the book is devoted to a study of the English language in the 19th and 20th centuries. The author discusses the influence of the various literary movements and the social changes which have shaped the English language. He also deals with the question of the standardization of the English language and the role of the various dialects.

The fourth part of the book is devoted to a study of the English language in the 21st century. The author discusses the influence of the various literary movements and the social changes which have shaped the English language. He also deals with the question of the standardization of the English language and the role of the various dialects.

Of apples, the production in New England dropped from  $2\frac{1}{2}$  bushels per capita in 1889 to  $1\frac{1}{2}$  bushels in 1909 or 1919; peaches and pears are so few as to be negligible. Maple products are only two pounds per capita - half the production of 1890. Cranberry production per capita is roughly half that of Massachusetts, but the crop outside Massachusetts amounts to little. Strawberries are produced in the same relative amounts as in Massachusetts. Other small fruits are produced in somewhat larger quantities per capita than in Massachusetts, but with only about a pint per capita.

In 1909 New England produced 60 gallons of milk per capita, a decline of 25 gallons from 1889; six pounds of butter per capita were made, but practically no cheese. Milk production seems to be sufficient for needs. Almost nine dozen eggs per capita are produced annually, insufficient for the needs of the population. Wool sheared is now less than a third of a pound per capita, much less than the weight of an ordinary wool sweater. On the basis of these items, New England would last but little longer than Massachusetts if confined to its own supplies.

Definite figures as to the foodstuffs brought into New England from outside are not obtainable. Estimates have been made, mostly dealing with foodstuffs. President K. L. Butterfield, of the Massachusetts Agricultural College, said New England imports 75% of her foodstuffs. (39) Various persons have estimated Massachusetts imports from 80% to 95% of her foods. A recent careful study of the state's consumption and production by Dr. A. E. Cance and Miss Lorian P. Jefferson, of the Department of Agricultural Economics at the Massachusetts Agricultural College, estimated that the state in 1908 produced 6.39% its animal and vegetable foods, in 1919 5.43%, or 15% less. That total would supply only a third of the population of Boston alone





in 1908, and less than that in 1919. That study considered production and consumption of cereals, vegetables, peas and beans, fruits, nuts, maple products, honey and wax, meat animals, dairy products and eggs, also of tobacco, and consumption of tea and coffee.

The study also considered the production and consumption of various types of clothing, such as wool, cotton, silk, and linen, and also of various types of footwear, such as shoes and boots. It also considered the production and consumption of various types of household goods, such as furniture, carpets, and linens. The study also considered the production and consumption of various types of transportation, such as automobiles, trucks, and airplanes. The study also considered the production and consumption of various types of energy, such as coal, oil, and gas. The study also considered the production and consumption of various types of services, such as education, health care, and entertainment.

The study also considered the production and consumption of various types of housing, such as single-family homes, multi-family homes, and mobile homes. It also considered the production and consumption of various types of infrastructure, such as roads, bridges, and public utilities. The study also considered the production and consumption of various types of government services, such as law enforcement, fire protection, and social services. The study also considered the production and consumption of various types of cultural and recreational activities, such as sports, arts, and entertainment.

The study also considered the production and consumption of various types of information and communication services, such as newspapers, magazines, and radio. It also considered the production and consumption of various types of scientific and technical services, such as research and development, and engineering. The study also considered the production and consumption of various types of financial services, such as banking and insurance. The study also considered the production and consumption of various types of legal services, such as law firms and courts.

In 1887 the law was passed that the  
 government should not be allowed to  
 spend more than the amount of  
 the revenue for the year. This was  
 the first time that the government  
 was limited in its spending.

—The end of the world.

## V. ECONOMIC TENDENCY OF AGRICULTURE TO SHIFT

The most successful agriculture is the one producing greatest value per worker engaged in it. This means methods of extensive culture and quantity production which makes wise more specialization than is the rule in New England. This is the reason most of the nation's grains are produced on the western plains in a climate somewhat more favorable, a topography permitting use of extensive methods of crop handling almost unheard of in New England, a soil of virgin fertility up to comparatively recent years. For this reason also the crops will continue to be largely grown there despite the tendency of costs to rise in recent years. Given access to markets at reasonable cost grains can be shipped long distances. Improvements in transportation methods and facilities in the last forty years have made possible the shipping of many perishables in car lots for hundreds of miles, so that now Oregon apples, California asparagus and Georgia peaches are common in our markets in season.

Therein lies the explanation of many idle New England lands. Production is no longer economically possible in competition with districts able to reach the same markets more cheaply and make a profit. The old self-sufficiency of earlier days is gone; the farm no longer can cater to the increasingly varied demands of its owners, for those have changed such as have those of urban people.

One has only to glance over fruit and vegetable stands or over a grocer's shelves at any time of the year to realize that there are commonly on sale many products which can not be produced in New England, or that are grown locally under glass or shipped in from warmer regions and sold out-of-season here. The possibilities of

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The first successful expedition to the continent  
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 the West Indies. The Spanish government  
 then sent a large expedition to the  
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 was led by Christopher Columbus and  
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shipping perishables long distances and the growing public demand for out of season luxuries have developed great trucking industries and business of catering to tastes which New England is not climatically adapted to supply. Almost any breakfast table has upon it products from widely separated points - coffee from Java or Brazil, butter from Wisconsin or Denmark, bread made from flour from Minnesota, steak from the Southwest, fruit from California. These are such ordinary things one seldom stops to think what people have contributed to the preparation of the meal.

As it is now, Boston, for instance, receives its milk from a distance averaging 240 miles; its cereals and meats from over 1,000 miles; its halibut and canned salmon from the Pacific Coast, over 3,000 miles away; its sugar from Cuba; its early vegetables from the Gulf States; its canned vegetables from Maine to Wisconsin. (34/50)

It is hard to picture modern people living in the so-called "good old times" when the farm raised its own wheat or corn to be ground at a nearby water-power mill for coarse bread, its own bacon and salt pork, its limited supply of vegetables and fruits, its own linen and wool, when it did its own baking (and brewing), wove its own cloth. Most of these things are now produced and manufactured in districts or factories which can more cheaply produce products of greater variety and superior quality and usefulness. That means economy for the buyer and in the long run determines procedure. So it is out of the question for Massachusetts or New England to attempt to be self-sufficient - for it would mean greater costs and far too few means of satisfying public demands.

The first part of the book is devoted to a general  
 introduction of the subject, and a description of the  
 various forms of the disease, and the different  
 methods of treatment. The second part is devoted  
 to a detailed description of the disease, and the  
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London

VI. SOME CHARACTERISTICS OF NEW ENGLANDAGRICULTURE JUSTIFIED

Much criticism is made of the conservatism, of the individualism, and of the methods of the New England farmer. Conservatism, opposition to voluntary change of established methods, has long been a characteristic of New England farmers for which it sometimes seems as if they were blamed beyond their due; it is characteristic of any people who have achieved reasonable success. It is justified by past successes upon the basis that what has worked before should do for the future. Farming is usually not a very profitable enterprise, and the cost of trying new methods, or modern machinery if not successful, may easily cost more than the meagre profits if not a success. Seeming fitness of current habit and methods to existing conditions, ignorance of information upon others in use elsewhere and scepticism as to their adaptability to his own circumstances makes the New England farmer conservative.

Individualism has been a characteristic of New England agriculture. At first the farm family could care for practically all its needs; then when sale of products began, it was to nearby consumers or buyers. This is still so to a great extent. A comparatively wide variety of products was turned out for the family, then for sale, and these were naturally in small quantities and of diverse quality. This tendency persists to the present day, usually making such diversity that cooperative endeavor is impossible or very difficult. Beyond the personal tendency to diversification of production is the fact that in large sections of New England there are found upon a single farm of average area many types of soil and topography each with its characteristics, compelling diversification.



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REIGN OF

The first part of the reign of King Henry the First was distinguished by the peace and tranquillity which reigned throughout the kingdom. The king's wisdom and justice were the cause of this happy state of affairs. He was a most excellent prince, and his reign was the most glorious that ever England saw. He was a most excellent prince, and his reign was the most glorious that ever England saw. He was a most excellent prince, and his reign was the most glorious that ever England saw.

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Various practices of New England farmers are criticized more or less unthinkingly. The use of oxen instead of horses, or of horses instead of power machinery on farm and road is called backward at times; but one critic notes (41) each has its place and usefulness in certain types of farming. The typical New England stone fence and small, irregular field had its beginning in the times when land had to be cleared along lines of least resistance and when large use of hand tools allowed small plots. Today the machinery in common use, both animal and power driven, demands larger and more regularly shaped tracts for economical operation; and the use of machinery itself is imperative by the necessity for greater economy of production and use of man and animal power.

Note has been made of the variety of crops grown by the average farmer, and of the necessity for it due to varied soil and topographical conditions.

Wastefulness of methods has often been criticized; the fact that New England uses so much purchased fertilizer is cited as proof that her soils have been cropped without consideration for the future. It is true of any new country that production even there is along the lines most economical at the time being; much of our west is just getting to the stage where it, too, must admit its soil is no longer virgin, that her soils have lost part of their fertility. New England thrift aims to make everything count but conservation of resources is at times unobtainable for the time being; such a policy must wait for times of greater need, and will then be applied.



## VII. SUMMARY AND CONCLUSIONS.

Between 1850 and 1910 the number of agricultural workers in Massachusetts varied but little, but the percentage to total population dropped from five to two. Farms varied in numbers, alternately gaining and losing, barely holding steady on the average; they lost 10% of their total area and 45% of the improved lands up to 1910; losses in all these phases followed between 1910 and 1920. Values of farm property nearly doubled to 1910, those of Massachusetts nearly equalling those of the United States per farm, and exceeding those of New England. Acreage of improved farm land per worker declined half, while the use of animal power increased. Massachusetts on the whole increased her dairy, poultry and swine, losing most of her fur sheep.

In the same period New England as a whole has had a slight net loss in number of agricultural workers, dropping from 5½% to 4½% of the total population. The number of farms remained about the same as in 1850 up to 1910, but 40% of the improved farm acreage and 47% of that acreage per worker were lost. Average farm values were less than those of the United States most of the time, although both increased greatly. Neat cattle, farm horses and poultry increased in numbers. Swine merely held their own, with sheep losing fast. Between 1910 and 1920 New England lost about 15% of her farms and improved lands and horses; some losses have occurred in all classes of farm animals except neat cattle.

From 1850 to 1910 the United States shows development in absolute figures. In number of farm animals per worker there has been a decline in all except poultry which increased 45%; in acreage of improved farm lands per worker there has been a decline everywhere of 25%.

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Massachusetts and New England had practically ceased to grow small grains by 1910, except that oats retain considerable value in New England out side of Massachusetts. The corn crop has declined less in bulk than any other grain crop. New England has greatly increased its potato crop while Massachusetts has lost a third of hers. The tobacco crop made great growth from small beginnings in New England and especially in Massachusetts where it has become a very important crop with an average yield per acre double that of the national crop.

Between 1889 and 1909 New England and Massachusetts by increasing the production per tree much above the average of the nation have increased their production of fruit crops, especially apples.

Since statistics of the crop were first taken in 1889, Massachusetts cranberry production has dominated the nation's crop and increased in absolute quantity, in production per farm and in production per crop acre.

Massachusetts leads in small fruit production - strawberries and other small fruits - per farm and per worker, although showing apparent decline in amount of the crops.

Since 1880 New England has led in maple sugar and syrup production per worker and per farm, with Massachusetts a poor second.

Since data was first given for 1889 Massachusetts has had the most productive dairy cows and dairy farms, but both are decreasing in number, especially the latter. Total milk production is likewise declining in Massachusetts. The New England dairy industry follows that of Massachusetts closely. Butter and cheese production is negligible.

Egg production kept pace with population everywhere from 1889 to 1909, and increased per bird and per farm reporting poultry. The greatest increase per bird was in the United States, from less than three dozen to a more reasonable figure of nearly five and a half dozen.

The first part of the book is devoted to a general introduction to the subject of the history of the world. The author begins by pointing out that the history of the world is not a mere chronicle of events, but a study of the human mind and its development. He then proceeds to discuss the various theories of the origin of life and the progress of civilization.

In the second part, the author deals with the history of the world from the beginning of time to the present. He traces the development of the human race from its earliest beginnings to the present day, and discusses the various stages of civilization and the progress of the human mind.

The third part of the book is devoted to a discussion of the various theories of the origin of life and the progress of civilization. The author discusses the various theories of the origin of life, and the progress of civilization from the beginning of time to the present.

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Wool production, of little consequence in New England at any time, has become quite negligible in Massachusetts.

From 1879 to 1909 market garden products increased most markedly in sales value in Massachusetts, from 7% of the total value of farm products in 1879 to 11% in 1899 and 13% in 1909, indicating a decided change in the kind of agriculture and the crops raised. The rate of increase of total gross farm value of all farm products is somewhat greater in Massachusetts and the United States in turn than it is in New England; but Massachusetts shows greater value per farm, per workman, per work animal and per acre of improved land than does New England or the United States.

The average Massachusetts farm had in 1909 decidedly the heaviest expense for feed, labor and fertilizer compared to the gross farm value of its products, and with these deducted from the gross farm value of farm products fell below the New England farm in net farm value of farm products per worker and per farm, but exceeded it in value per work animal. The United States was third in each respect.

In production, New England on the whole has fallen far below the needs of her population. She produces very little grain, tho the hay and forage and the potato crops seem sufficient. Massachusetts grows far more cranberries than she uses; of small fruits she has decreasing amounts. Milk, while decreasing in quantity, is still ample and allows for the manufacture of a little butter and cheese.

All New England has much more land capable of crop production when it is economically practical to use it. Methods must change to some extent to permit more economical culture, and the adoption



The first part of the paper is devoted to a general  
 consideration of the problem. It is shown that the  
 problem is equivalent to the problem of finding  
 the minimum of a certain function. This function  
 is defined as follows: Let  $f(x)$  be a function  
 defined on the interval  $[a, b]$ . Then the  
 minimum of  $f(x)$  on  $[a, b]$  is the value of  
 $f(x)$  at the point  $x$  where  $f(x)$  is the  
 smallest. This is the minimum of  $f(x)$  on  
 $[a, b]$ .

The second part of the paper is devoted to a  
 detailed study of the problem. It is shown that  
 the minimum of  $f(x)$  on  $[a, b]$  is attained  
 at the point  $x$  where  $f'(x) = 0$ . This is  
 the necessary condition for a minimum. The  
 sufficient condition is that  $f''(x) > 0$ .  
 This is the second derivative test.

The third part of the paper is devoted to a  
 study of the problem of finding the minimum  
 of a function of several variables. It is shown  
 that the necessary condition for a minimum is  
 that the gradient of the function is zero at  
 the point  $(x, y, z)$ . This is the first  
 derivative test. The sufficient condition is  
 that the Hessian matrix is positive definite  
 at the point  $(x, y, z)$ .

The fourth part of the paper is devoted to a  
 study of the problem of finding the minimum  
 of a function of several variables. It is shown  
 that the necessary condition for a minimum is  
 that the gradient of the function is zero at  
 the point  $(x, y, z)$ . This is the first  
 derivative test. The sufficient condition is  
 that the Hessian matrix is positive definite  
 at the point  $(x, y, z)$ .

of standardized production in larger quantities will warrant local pooling and co-operative marketing. When farmers everywhere in the nation have nearly the same costs of production New England should be able to use profitably more of her land, not to produce crops better grown elsewhere but to grow those old or new ones producing greatest net value to workers here, still buying those others which she cannot grow at a profit.

New England production will probably never gain greatly on population under present conditions, but with intensive methods which develop as a country grows older, production in value may gain on population, but that will probably mean decreased value per worker. Even at present the Massachusetts and New England farmers are doing as well or more than their grandfathers. The decline of agriculture noted in some directions is not by advances in others which more than offset losses. New England agriculture is not declining but changing in type.

The first part of the report is devoted to a general survey of the  
 situation in the country. It is found that the country is in a  
 state of general depression, and that the people are suffering  
 from want and distress. The cause of this is attributed to the  
 war, and the consequent destruction of property and the  
 loss of life. It is also stated that the government is  
 unable to meet the demands of the people, and that the  
 country is in a state of anarchy. The report then proceeds to  
 a detailed account of the various districts, and the state of  
 affairs in each. It is found that the situation is generally  
 the same throughout the country, and that the people are  
 suffering from the same causes. The report concludes with  
 a summary of the findings, and a recommendation that the  
 government should take steps to relieve the suffering of the  
 people, and to restore order to the country.

District	Population	Area	Resources
District A	100,000	1,000 sq. miles	Rich in minerals
District B	200,000	2,000 sq. miles	Rich in agriculture
District C	300,000	3,000 sq. miles	Rich in commerce
District D	400,000	4,000 sq. miles	Rich in industry
District E	500,000	5,000 sq. miles	Rich in education

VIII. Bibliography

Key to References. Numbers and letters placed before a diagonal line are those indicating the reference: those following show volume (if necessary) and page.

Volume marks are explained at the head of the list of references to Censuses following reference 7.

1. William Harper Dean, "Hampden County Improves Itself", in the "Country Gentleman", October 25, 1919, p. 8.
2. William Harper Dean, "The Agricultural Revival in South New England", in the "Country Gentleman", November 29, 1919, p. 6.
3. L. S. Storrs, "Need for Transportation", in "Western New England", January 1912, p. 37.
4. President K. L. Butterfield, "Agriculture in New England", in "Breeders' Gazette", December 20, 1917, p. 1154.
5. R. W. Bird, "Facing Facts", in "Current Affairs", February 10, 1918, p. 1.
6. J. A. Sheurle, "A Venture in County Improvement", in "Field Illustrated", July, 1915, p. 535.
7. A. B. Blodgett, Jr., "Problems of New England", in "Kimball's Dairy Farmer", November 15, 1918, p. 39.

References 8c to 14c are to the Eighth to Fourteenth Censuses of the United States.

Following the diagonal line, (P) indicates volume on Statistics of Population; (I) or (II) indicates Part I or II of the report on Agriculture of the Twelfth Census in its Volume V or VI respectively. Numerals following indicate pages to which reference is made; they are usually not repeated here.

Thirteenth Census References unless otherwise indicated, are all to Volume V of that census, "Agriculture - General Report and Analysis".

8C/P 656-79

9C/P 670-1

10C/P 716

11C/ (See note following reference #7)

12C ( " " " " )

12C/P Twelfth Census, Volume II.

13C/ (See note following reference #7)

The first part of the paper is devoted to a general discussion of the problem. It is shown that the problem is equivalent to a problem in the theory of differential equations. The second part of the paper is devoted to a detailed study of the problem. It is shown that the problem is solvable if and only if certain conditions are satisfied. The third part of the paper is devoted to a study of the properties of the solutions of the problem. It is shown that the solutions are unique and that they depend continuously on the data of the problem. The fourth part of the paper is devoted to a study of the asymptotic behavior of the solutions of the problem. It is shown that the solutions approach a certain limit as the independent variable approaches infinity.

- 13C/P Thirteenth Census, Volume IV, p. 91.
- 14C/P Data from population bulletins of the various states or from press announcements of population.
15. Musser et al, "Cost of Market Milk Production", Connecticut Extension Bulletin 7.
16. Fred Rasmussen, "Cost of Milk Production", New Hampshire Extension Bulletin 2, see especially p. 20.
17. L. M. Davis, "Survey of the Dairy Marketing Conditions and Methods in New Hampshire", New Hampshire Extension Bulletin 8.
18. Report of the Commission on Necessities of Life, Massachusetts House Document 1500, February 1930.
19. J. E. Downs, in letter to "Springfield (Mass.) Republican", October 8, 1913.
20. Fourteenth Census bulletins on the agriculture of the various states (Press reports only thus far issued for Connecticut), Tables of "Summary for All Crops: 1919 and 1909" at about page 9. Some data calculated from figures in this table.
21. Fourteenth Census publications as in #20; Table "Small Fruits: 1919 and 1909", at about p. 11.
22. Fourteenth Census publication as in #20; Table of "Domestic Animals on Farms, 1930", at about p. 6.
23. Fourteenth Census publication as in #20; Table of "Dairy Cows on Farms, 1930"; and Dairy Products, 1909 and 1919", at about p. 8.
24. J. H. Bloodgett, "Relations of Population and Food Products in the United States", U. S. Department of Agriculture, Division of Statistics, Bulletin No. 24.
25. Fourteenth Census publications as in #20; Table of "Sheep on Farms, 1930 and 1910; Goats on Farms 1930; and Wool and Mohair Produced, 1919 and 1909", at about p. 8.
26. Fourteenth Census publications as in #20; Table, "Summary, 1930 and 1910," p. 1.
27. Fourteenth Census publications as in #20; Table of "Chickens (or Fowls) on Farms, 1930 and 1910; and Poultry Products, 1919 and 1909", at about p. 8.
28. Fourteenth Census publications as in #20; Table of "Orchard Fruits and Grapes: 1919 and 1909" at about p. 11.
29. Fourteenth Census publications as in #20; Table of "Maple Sugar and Syrup: 1919 and 1909", at about p. 10.

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30. Fourteenth Census Publications as in #20; Table of "Farm Expenditures for Labor, Fertilizers and Feed", at about p. 5.
31. A. H. Bryan and W. F. Hubbard, "Production of Maple Syrup and Sugar", U. S. Department of Agriculture, Farmers' Bulletin 516, p. 41.
32. "Statistical Abstract of the United States", 1919, Bureau of Foreign and Domestic Commerce, Department of Commerce, Washington, D. C.
33. "Agriculture, Massachusetts", bulletin of the Fourteenth Census of the United States.
34. Report of the Commission on Transportation Facilities in the Commonwealth, Massachusetts Senate Document 410, January 1919, p. 38, if not otherwise indicated.
35. Warren H. Manning in an article of a series on a town plan, in "Billerica", October 1, 1919, p. 8.
36. Report of the Commission on Necessities of Life, Massachusetts House Document 1500, February 1920, p. 69.
37. Yearly Value per Acre of Ten Crops Combined", in "Monthly Crop Reporter", March 1920, p. 29.
38. Fourteenth Census publication as in #20; Tables of "Vegetables Raised for Sale: 1919" and "Small Fruits: 1919 and 1909", (the table derived being the sum of state's values of production in the two), at about p. 10.
39. President K. L. Butterfield, "Agriculture in New England", in "Breeder's Gazette", December 20, 1917, p. 1154.
40. W. E. Sayne, "What's the Matter with New England", in "American Review of Reviews", September 1919 (quotes W. H. Manning), p. 231 ff.
41. J. B. Iden, "An Arkansas Traveler in Connecticut", in "Country Gentleman", August 2, 1919, p. 10.
42. M. G. Eastman, "Farming in the Granite State", in "Rural New Yorker", August 30, 1919, p. 261.













