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## LIVESTOCK AUCTIONS IN SOUTH DAKOTA .

BY

DALE ELDON TO TH

A thesis submitted
in partial fulfillment of the requirement for the
degree Master of Science, Department of
Economics, South Dakota State
College of Agriculture
and Mechanic Arts

June, 1959

SOUTH DAK TA THE GULLEL ... AY

# LIVESTOCK AUCTIONS IN SOUTH DAKOTA

This thesis is approved as a creditable, independent investigation by a candidate for the degree, Master of Science, and acceptable as meeting the thesis requirements for this degree; but without implying that the conclusions reached by the candidate are necessarily the conclusions of the major department.

Thesis Adviser

Head o the Major Department

#### ACKNOWL EDGMENTS

The writer gratefully scknowledges his indebtedness to the Department of Economics of South Dakota State College for the opportunity of making this study.

Special thanks are due to Dr. Travis Manning for his encouragement during this study and helpful criticism of the results.

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DER

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#### C APTER T

#### INT ODUCTION

live tock in ustry in the last two decades. These changes have been due largely to technological advancements in refrigeration, transportation, and commication.

Livestock auctions have experienced considerable growth during this time.

#### Need for Study

Livestock sales accounted for 54 percent of the case farm income in South Daket in 1957.

The total value of livestock on far in South Dikota, January 1, 195, 518, 73,000. This indicates the live tock industry in South Dakot is comparatively large.

It is desirable to make periodic studies and to value to current information in order that producers and marketing agencies might revise their business operations. A periodic study is also useful as guide for future research and a seasure for evaluating the effectiveness of past research.

South Dakota Agriculture 1959, p. 55, South Dakota Crop and Live took Reporting Service: Sioux Falls, South Dakot, 1959.

<sup>&</sup>lt;sup>2</sup>Ibid., p. 33.

The latest regional study of marketing agencies in South Dekots was made in 1940. Since that time, many technological changes have been made which undoubtedly have influenced the marketing channels and outlets in the state.

Many livestock entrepreneurs come into contact with and transict business through livestock suction facilities since they are the most numerous of the marketing outlets in South Dakota.

## Purpose of Study

A description of the various facets of auctions is necessary in order for livestock entrepreneurs to envis ge more clearly the conditions and prectices which prevail around such markets.

The objectives of this study were: (1) to determine the source and disposition of livestock handled by the auctions, and (2) to determine the statistical schema of tariffs charged by the auctions.

#### Procedure

The North Central Regional Livestock Marketing Research Project NCM-18 had two phases.

Phase I in South Dakota consisted of 600 farmer schedules. These schedules provided information as to the amount and type of livestock sold each year. Data were also obtained concerning factors influencing farmers in the selection of various channels, markets, and the time of marketing.

Phase II in South Dakot consist d of one terminal market schedule,

27 auction market schedules, 93 dealer schedules, 10 packing plant schedules, and 15 packing plant tation schedules. The above schedules provided information about ownership, organization, conduct of sales, source and disposition of livestock old, source and disposition of purchased livestock, and market facilities.

This study of livestock auctions is only a portion of Phase II of the regional project.

The tudy of the live took auctions began in Documber, 1957.

The names and locations of the auctions operating in 1957 were obtained from the Live too sanitary loard in Pierre. The auctions were tent—tively grouped into economic area. This tentative arrangement was sent to the North Central Regional Livestock Marketing Perearch.

Committee. The Committee altered the tentative commic areas somewhat and then determined how samples were to be drawn from each area for adequate representation.

The sample auctions were selected by numbering them and then drawing the auction through the use of the table of random numbers. There were 27 live took suction in the survey.

to obt in a description of the livestock auctions in bouth Dakota.

#### Definition of Terms

#### Auction Market

It is nometimes known as a sale barn. A sale ring is located in the barn usually surrounded on three sides by blechers which the buyers

occupy while bidding on the livestock. The bidding is directed by an auctioneer.

## Terminal Market

This market is oftentimes referred to as the public stockyards.

It is usually found at the center of several means of transportation.

Many commission firms rent office and holding pen space where they conduct their business. Livestock are sold through private treaty by the commission man at the terminal market.

## Packing Plant

These firms slaughter and process the animals for human consumption. They do not assess my fees, thus encouraging direct selling to the packing plants.

#### Order Buyer

He is hired, on a commission basis, to buy a specified amount of a live took species by anyone who wishes to hire him. Normally the order buyer is hired by a packing plant or a livestock feeder to purchase livestock.

#### Trader

A trader is also known as a scalper, trucker-buyer, or a speculator. He buys and sells livestock for speculation purposes only.

Many farmers and ranchers are suspicious of a trader because they feel
the may try to put something over on them during a business transaction.

# Dealer

A dealer buys and sells livestock only on a mirginal basis. He usually is contacted by a livestock buyer to deliver a specified number, grade, and specie of live tock for a prearranged price.

#### Packer Buyer

He is a selaried representative of a packing plant and purch sessions for the plant to slaughter.

# Entrepreneur

He is a businessman who may be engaged in any phase of the livestock industry. This can range from the producer to the picking plant.

#### C APTE II

#### APPR ISAL OF AUCTION

Livestock suction in South Dakota have experienced a great increase in value using the last ten year. The reason for the higher rate of increase in volume for live took suction may le in the results of Phase I of this study.

dv ntages and Disadvantage of Auct ons

Phoe I revoled to t producers on patronize the uction mark to listed several reasons for the sing of union markets their professor of the right ary reason given as that he auction market was more convenient and the movement of livestock to the market involved for transportation costs. The conderes new hat producers filt the livestock auction to be a broader market. The right along were that livestock had less here keep, live took rought igher rices, and producer receive his heren to returns.

The Utah Experiment Station ublished in open of live took auctions in the Mertern States.

uction ar eting of livestock as now conducted in the t perform u eful since in concentration, silling, and disbursom nt of live tock tultimate users. Such functions

<sup>&</sup>lt;sup>3</sup>Un ubli h d data, comics D par ent, outh kot oll .

Auctions, Bull to 352, p. 5, Uta Agricultural Experiment Station: Logan, Ut h, M y, 1 52.

contribute to incremed mark ting officiency in several ways: first, auctions ficilitate the local exchange of stocker, feeder, and breeding animals between farmers and ranchers, and expedite feeding operations of the small producer; second, auctions provide a year-round sumply of slaughter livestock for an expanding number of local packers, local butchers, and local locker plant operators; third, auctions serve as an educational medium whereby producers learn more about the market value of their livestock in relation to other consignments; fourth, auctions from number of local surplus feed areas, and, therefore local deficit to local surplus feed areas, and, therefore live took and feed resources are combined more effectively, resulting in greater total output.

The resons sest frequently entioned by South Dakot producers

for selecting live took auctions as their preferred mark ting out at a

ere convining and logith apportation costs.

It can be assumed that convenience and transportation costs are important factors in the growth of the auctions in South Dakot since the only other broad major livestock market in the state is the terminal livestock market at Sioux Falls.~

In a study of livestock auction in the western part of the United States, it was found that buying livestock from auctions was viewed less enthusiastically than selling through the auctions.

There was considerable agree ent along buyers on the advantages of buying through the auction markst. The avantages given were:

(1) being able to choose the type of livestock desired, (2) being able to choose the quality desired, and (3) the convenience of attending the local auction. The disarvint ges of auction purchases were given

Dedwin C. Voorhies, <u>Trade in Western Livestock at Auctions</u>, Bulletin 740, p. 6, California Agricultural Experiment Station: Davis, California, April, 1954.

another, and (2) low quality of mimals. A disadvantage of selling through the auction was also given. Several patrons claimed that often an insufficient length of time is allocated to each consignment while in the sale ring in order to facilitate effective bargaining among buyers.

#### Comparison of Prices and Returns

A study conducted by the United States Department of Agriculture in the electron states found that suctions needed to change their practice in selling livestock. A program of grading, sorting, and selling uniform lots of live took was felt to be needed to save time. Quite often livestock sells at a higher price with this practice.

One auction cut its operating time of selling lambs from three hours to 20 minutes, another cut its operating time from two hours to 20 minutes in selling calves just by grading, sorting, and selling in large uniform pooled lots.

A public relations and oducational program might be needed before the auction managers could get the support of livestock consignors to carry out a program of pooling livestock for sale in large uniform lots.

<sup>6</sup>C. G. Randell, Ways to Improve Livestock Auctions in the Northeast, FCS Circular 16, p. 7, Farmer Cooperative Service, United States Department of Agriculture, United States Government Printing Office: Washington 25, D. C., June, 1956.

The adventages of pooling livestock or all part to use eight any disadventages hat may arise. The dventages are 1 (1) packer buyer and refer to buy in large really in form lots, and (2) feeders prefer to our assettless livestock in large uniform graps rather the attempt to obtain the deire number of a small from our roll mall coming ments.

In a pr vi study, evidence was found that comparable prices do xi to tween suction ark to and to minal markets for cert in classes of live toc. 8 This tudy was made in South skota of fourteen suctions and the terminal aret at Omah, ebrak. The dota some dot indicate that the prices paid for all grades of yearling steer compared suit favorably with prices aid for the some grades at the Omaha terminal arket when the cost of transportation was taken into account. Price comprises indicated to the lower grade steer bought higher prices at suctions while the top grades brought higher prices at the terminal market.

Prices paid at auction markets fluctuated idely between markets and from week to week at any one market. These fluctuations were attributed to weather and road conditions. Auction market prices are more unpredictable than the terminal market prices because of variations.

<sup>7</sup>A. A. Dowell and Gerald Engelman, <u>Livestock Auctions in</u>
<u>Minnesota</u>, Bulletin 352, p. 39, Minnesota Agricultural Experiment
Station: St. Paul 1, Minnesota, June, 1941.

<sup>8</sup>Gerald E. Marousek, A Market News Service for Livestock Auctions
in South Dakota, Master's Thesis, pp. 34-36, Department of Economics,
South Dakota State College: Brookings, South Dakota, September, 1954.

in local sup ly and demand.

Auction managers listed circulars, telephone, radio, nempaper, television, and person-to-person contact as the means they used to reach live tack producers and buyers. There was some evidence that telephone and person-to-person contact were considered the most desirable means of contact. Whenever an auction market manager is informed that a certain consignment of livestock will be made at his market, he contacts buyers whom he feels eight be interested. This service performed by the auction managers can be undertaken if they are given sufficient notice before the livestock are delivered to their sale barn. This service is beneficial to both consignor and buyer since the consignor may receive a higher price for his stock and the buyer may be able to purchase livestock more suitable to his needs.

Several instances were cited by auction managers of livestock being shipped to the terminal market, sold, and then brought back into the same neighborhood. The auction managers felt that if the auction had been used as the marketing outlet, shipping charges would have been much less for both parties concerned, realizing greater returns to both parties.

## Livestock Consigned by Traders

Some livestock consignors to auction markets have complained
that traders dominate the livestock auction market in certain areas.

Table I gives so e indication of the percent go of livestoc that was consigned by producers, auctions, and others. The traders were included

in the group is todas "others". This grow is not made up of reconsignments made by other these of consignments made by other these of consignments. These consignors may have included a cking plants, order buyer, and allows. Nor ally these individuals would be only buying but they may well one livestock. One reason as to way they would sell is if after purchasing a particular lot of livestock, a few head were culled out a unsuitable for a particular purpose. These livestock might then be re-mold through the sale ring. The legal to be ich this happens cannot be determined here.

in term of the 27 auctions in this study reported at least some mount of live tock consigned by Ir ders and other. The marticular auction reported that traders, leading, etc., consigned approximately 4 percent of its total volume in 1957. The next highest rinking auction reported that a proximately 30 percent of its total volume in 1957 was consigned by trader, dealers, etc.

The traders and others appear to consign more cittle than my other livestock species to the union mark to. The verage consignment by traders and others of cattle 7.12 percent of the total volume of the suctions. The average configurant for logs and sheep of the total volume by triders, desire, etc., are 2.13 percent and 2.7 percent respectively (Tible I.)

It is note possible that poculators are do in the some of the live took exctions, part cularly in cattle. It might be desirable to under all a study to determine if prices a livestock are affected by the presence of traders. It must be kept in sind, however, the in

TABLE I. PERCENTAGE OF ALL LIVESTOCK CONSIGNED TO AUCTIONS
BY TYPES OF CONSIGNORS AND SPECIES OF LIVESTOCK
IN SOUTH DAKOTA, 1957.

Type of Consignor	Cattle	Hogs	Sheep
		Percent	
Producers	BB .46	97.25	97.32
Auctions	4.42	<b>.</b> 52	•41
Others	7.12	2.13	2.27
Totale	100.00	100.00	100.00

• Fract breakdown of livestock consigned by traders is not known, so before any conclusions can be drawn more information would have to be obtained.

# Livestock Purchased by Traders

Liveeteck purchased by traders or speculators was not as great

en the percentage that oppeared to be consigned by traders and others.

Two auctions reported that 30 percent of their total volume in 1957 was purchased by traders. The next highest auction reported that 12 percent of its volume was purchased by traders.

Only nine of the 27 auctions reported that traders or speculators had purchased any livestock.

Traders purchased a larger percentage of cattle then of any other species, however it was only by a narrow margin. The traders purchased on average of two percent of the total volume of cattle in 1957. The average percentage of hogs turchased by traders was .79

TABLE II. PERCENTAGE OF ALL LIVESTOCK PURCHASED THROUGH AUCTIONS BY TYPES OF BUYERS AND SPECIES OF LIVESTOCK IN SOUTH DAKOTA, 1957.

Type of Consignor	Cattle	Hogs	Sheep
		Percent	
Producers	48.29	33.58	45.68
Dealers	13.01	3.25	9.77
Packers	13.65	41.11	18.23
Order Ruyers	22.25	21.27	24.77
O there	2.00	.79	1.55
Totals	100.00	100.00	100.00

and the percentage of sheep purchased was 1.55 (Table II).

#### CHAPTER III

#### GROWTH OF LIVESTICK AUCTIONS IN SOUTH DAKOTA

The Yankton Livestock Sales Company was probably the first regular eachly auction arket to begin operation in South Datota.

Harry L. Slaughter of Yankton began operating the Yankton Livestock

Sales Company Saturday, September 13, 1930, at which time 40 plgs were sold. Within a few waks, the auction was consigning some cattle along with pigs and labs.

Livestock suctions in South Dakota were first controlled by etate regulations in 1937. No record could be found of the growth of suction markets prior to 19 7. There ere 34 auctions open ting in South Dakota in 1937. The number and volume of livestock auctions continued to grow steadily. There were 64 auction markets operating in the state in 1957. The volume of livestock sold through auctions in South Dakota has increased an average of 86 percent over the last ten years (fiscal years 1947-1948 to 1956-1957), or an increase of 103 percent for cattle, 70 percent increase for hogs, #5 percent increase for theep (Table III.) In comp rison, the total verage increase of volume in the Sirux Falls terminal are et during the same period 12.3 percent, or an increase of 57 percent for cattle, 19 percent increase for hogs and a decrease of 39 percent for sheep. The increase in volume of all live tock sales in South D kots was 26.3 percent, or an increase of 51 percent for cattle, 10 percent increase for hogs, and la parcent increase for sheep (Table III.)

TABLE III. PERCENTAGE CHANGES IN LIVESTOCK MARKETED THROUGH SIOUX FALLS TERMINAL MARKET AND SOUTH DAKOTA AUCTION MARKETS FROM JULY 1, 1947, TO JULY 1, 1957, AND TOTAL LIVESTOCK MARKETED IN SOUTH DAKOTA FROM JANUARY 1, 1948, TO DECEMBER 31, 1957.

Time Period		Cattle	Hogs	Sheep	Av r ge Chang
July 1, 1947, to July 1, 1957.			Perce	ent	
	Tomin l Market	+ 57.0	+ 19.0	-39.0	+12.3
	Auction	+103.0	+ 70.0	+6.0	+86.0
January 1, 1948, to December 31, 1957.					
December 31, 1437,	St t of South D cots	+51.0	+ 10.0	+18.0	+26.3

This comparisons how that uc in mark thave made ling gains in volume as compard to the terminal ark t.

everal factors have contribute to the expansion of the livestock of the li

Gerald Engelman and Betty we Pence, Livestock Auction Markets in the United States, Marketing Research Report 223, pp. 5-6, United States Department of Agriculture, Agricultural Marketing Service, Marketing Research Division, United States Government Printing Office: Washington 25, D. C., March, 1958.

diss in tion of market news to the farmers and r ncher.

A study of the various marketing outlets for livestock was added by the United States Department of Agriculture in 19 and 10. The study found that one of the sort dynamic changes in the livestock mar etime by the during the last few decades wis the increased atronge and growth of auction markets.

A further examination of the volume growth of south Dakot auctions can be made by observing Figure 1. 11 This figure depicts the volume growth of cattle, hogs, and sheep sold through auction mark its from the fiscal year 1937-1938 to fiscal year 1956-1957. There are three separate fiscal years for which no data were available; however, this does not liter the overall picture. The volume of sheep sold through auctions increased from 47,906 hand, 1937-1938, to 383,984 hand, 1956-1957. Cattle volume has shown the largest increase of all three species of live took. In the fiscal year 1937-1938, 134,34 hand of cattle were marketed through auctions. This increased to 1,252,47 hand sold through auction facilities in the fiscal year 1957. The amount of nogs marketed has fluctuated considerably

location B. Phillips and Gerald Engelman, Market Outlets for Livestock Producers, Marketing Research Report 216, p. 7, United States Department of Agriculture, Agricultural Marketing Service, Marketing Research Division, United States Printing Office: Washington 25, D. ..., March, 1954.

<sup>11</sup> Annual Report of the Livestock Sanitary Board, Live tock Sanitary Board, State Office Building: Pierre, South Dakota, 1937-1938 to 1956-1957.

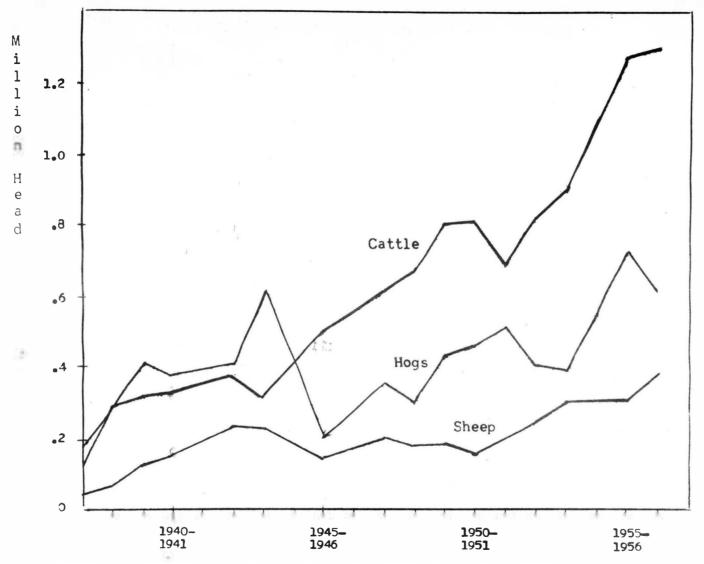


Figure 1. Number of Cattle, Hogs, and Sheep Marketed Through South Dakota Livestock Auctions By Years, July 1, 1937, to July 1, 1957.

during these two le Gades but has increased substantially. The hog marketed through suctions have increased from 173,741 in 1937-1938 to 605,630 in 1956-197.

livestock suctions, the Sioux Falls terminal market, and the total livestock marketed in South Dakota from the fiscal year 1947-1948 12 to the fiscal year 1946-1957 13 for cattle, hogs, and sheep.

has increased from 919,000 head in 1948 to 1,389,000 in 1957. The sold through nuctions was 616,649 in 1947-1948 and has increased to 1,282,947 head in 1956-1957. The terminal market had an increase from 288,942 cattles old through its facilities in 1947-1948 to 433,466 in 1966-1957.

Figure 3 indicates that logs marketed in South Dako to increased from 1,875,000 in 1948 to 2,057,000 in 1957. The volume handled by Uctions increased from 350,876 in 1947-1948 to 605,630 in 1956-1957.

The number of hogs sold through the terminal wark to during the same parion for said from 603,660 to 716,530.

provious figures. True Situs Fall torminal market has decrease in the volume of these hadded through its facilities. In the fire I year

<sup>12</sup> South Dakota Agriculture 1950, pp. 36-37, Crop and Livestock Reporting Service: Sioux Falls, South Dakota, 1 950.

<sup>13</sup> South Dakota Agriculture 1958, pt. 46, Crop and Livestock Reporting Service: Sioux Falls, South Dakota, 1958.

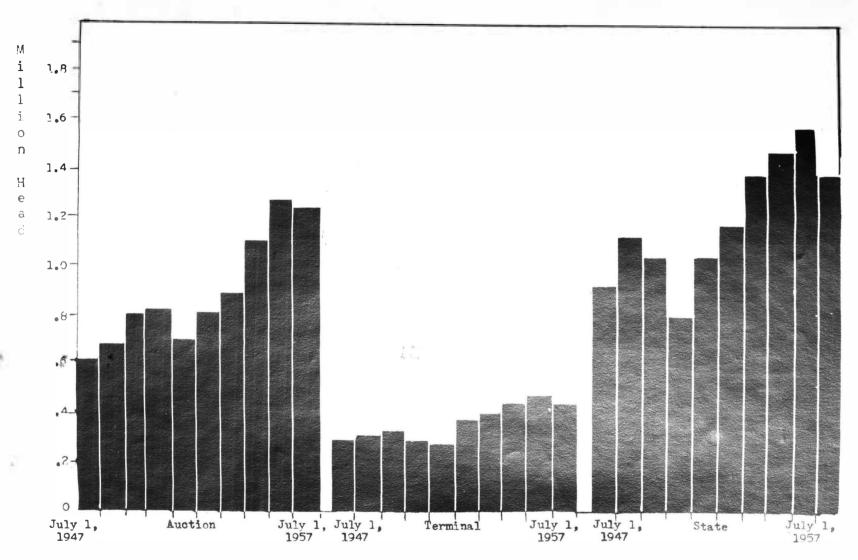


Figure 2. Number of Cattle Marketed Through South Dakota Auction and Terminal Markets and State Totals by Years, July 1, 1947, to July 1, 1957.

9

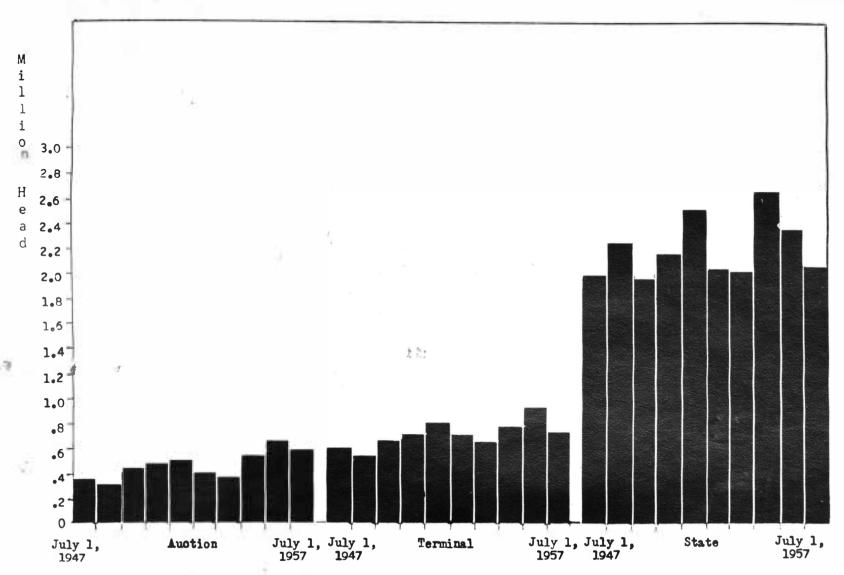


Figure 3. Number of Hogs Marketed Through South Dakota Auction and Terminal Markets and State Totals by Years, July 1, 1947, to July 1, 1957.

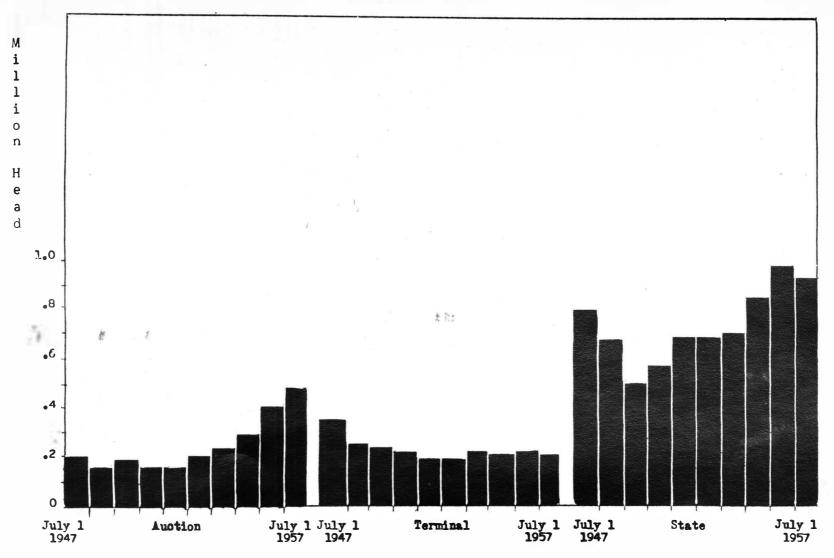


Figure 4. Number of Sheep Marketed Through South Dakota Auction and Terminal Markets and State Totals by Years, July 1, 1947, to July 1, 1957.

1947-1948, 354,707 sheep were sold at the terminal market. The volume decreased steadily to the fiscal year 1956-1957 at which time 214,758 sheep were sold. During this same period, the livestock auctions had an increase in volume from 207,818 to 203,984 sheep sold. The total sheep marketed in the state increased from 795,000 to 938,000 during this period.

#### CHAPTER IV

#### PATRONAGE OF AUCTIONS IN SOUTH DAKOTA

Producers consigned an overage estimated 88.46 percent of all cattle mold through auctions. Consignors not specifically labeled consigned 7.12 percent of the cattle to the auctions and the remaining 4.42 percent was consigned by the auctions themselves (Table I).

Approximately 97.25 percent of all hogs consigned to auctions
were brought by producers. The suctions consigned only .62 percent
of the hogs and the remaining 2.13 percent was consigned by the rest of
the consignors (Table I).

Sheep consignments present pictur very similar to that of the hog. Approximately 97.32 percent of the sheep were consigned by producers. The auctions consigned a mere .41 percent of the sheep and the remaining 2.27 percent of the sheep were consigned by other types of consignors not specifically mentioned (Table I).

Revising the total picture, it can be seen that producers have consigned the large majority of livestoc sold through auction market.

This does not me n producers raised all their livestock. They can speculate with livestock the same as any regular trader to appears in the row labeled—others.

The high percentage of producers as consignors of lives tock may indicate that they have found it is to their advantage to well through the facilities offered by the auction market. An auction market is usually located closer to the producer than a packing plant or terminal

150

market. his ing to the closest market gut at generally seems less than portation costs, therefore a higher net return could be realized. These resons for promising section market.

Several ther studies of livestock auction in other parts of the United States are delved into the patronage of the auctions. This stay only a ked for information on the parcentage of livestock consigned by each patron.

In the stern part of the United States, it was found that livestock operators who raised both cattle and seep were more inclined to pitronize auctions than the operators who raised only help. It was thought that perhaps the sheet range operators are probably further from the auction and their stock was more unitermend in larger lot.

The Corn Belt Livestoc Marketing Research Committee, which preceded the present North Central States Livestock Marketing Research Committee, undertook a study in 1940 which is very similar to this study. 15

The Committee found that auctions generally patronized by accerate to each divided up and/or pooled the consigned livestock into uniform lots usually of deck size. The uniform using this method of alling live too are in a fivorable position to a trict buyers to are in the market for livestock in large uniform lots. The packers also

<sup>14</sup>voorhies, oo. cit., p. 26.

Eulletin 365, p. 36, South Dakota Agricultural Experiment Station:

Brookings, South Dakota, November, 1943.

patronized auctions having rather large volumes even though livestock was sold in small lots or singly. It was found, however, that oftentimes the packers had made arrangements with livestock dealers to purchase livestock and then deliver them to the packing plants.

#### CHAPTER V

#### LIVESTUCK CONSIGNMENTS TO AUCTIONS

26

The traders and dealers consigned a much larger percentage of the stocker, feeder, and other livestock class than they did of the slaughter livestock class. A possible reason for this is that the number of market outlets for the stocker, feeder, and other livestock class is not confined to a comparatively small number of buyers and seliers as in the slaughter livestock market.

#### Slaughter Livestock

approximately 386,876 head of which 100,737 were cattle and calves,
243,030 were hogs, and 43,109 were sheep. Producers consigned approximately 93.92 percent of slaughter cattle and calves, 98.46 percent of
slaughter hogs, and 08.33 percent of alaughter sheep (Table IV).

Livestock auctions consigned very few slaughter livestock. The possible
reason for auctions consigning my slaughter livestock at all was
perhaps that sanagement had to buy them from a previous sale in order
to protect the market for that particular day. This reason probably
would not apply if a sufficient number of the regular slaughter lives
atock buyers were present at the sale since it is conceivable that they
would bid higher than would most speculators.

TABLE IV. PERCENTAGE OF SLAUGHTER LIVESTOCK CONSIGNED TO AUCTIONS
BY TYPES OF CONSIGNORS AND SECIES OF LIVESTOCK
IN SOUTH DAKOTA, 1957.

Type of Consignor	Cattle	Hogs	Sh ep
	TURN STATE OF THE	Percent	
Producers	93.92	98.46	98.33
Auctions	1.50	.29	.34
Others	4.58	1.25	_1.33
Totals	100.00	100.00	100.00

Stocker, Feeder, and Other Livestock

in 1.57 numbered a pro-inately 794,005 head, 485,732 of which were title and calves, 117,132 are log, and 1.7,141 are sheep. Producer consigned approximately 87.69 percent of the stocker, feeder, and other cattle, 9.13 percent of the feeder and breeding hogs, and 96.90 percent of the feeder and breeding hogs, and 96.90 percent of the feeder and breeding hogs, and 96.90 percent of the feeder and breeding should be stocker, feeder, and other livestock class, suction mar ets consigned 4.62 percent of the cattle and calves, .66 percent of the sheep (Table V).

The action markets consigned approximately three times (208 percent) ore tockers, feeders, and other livestock than they did of the slauphter live tock. The total number of the stocker, feeder, and other livestock was 2.05 times the number of the slaughter live tock class sold through actions. The large percentage of stocker, feer, and other livestock consigned by auction mark to can ot be exclaimed

TABLE V. PERCENTAGE OF STOCKER, FEEDER, ANN OTHER LIVESTOCK COMSIGNED TO AUCTIONS BY TYPES OF COMSIGNORS AND SPECIES OF LIVESTOCK IN SOUTH DAKOTA, 1957.

Type of Consignor	Cattle	Hog∎	Sheep
	*************	Percent	
Producers	87.69	95.13	96.90
Auctions	4.62	.66	1.05
Others	7.69	4.21	2.05
Totals	100.00	100.00	100.00

solely by the fact that this was larger. This may have been due to speculation or auctions may have gone into the country to buy this type of livestock to bolster their volumes.

Many of the auction managers indicated that if the sale price of some consignments were too low, they would bid in order to protect the market or to set the market price for the day. The auction markets often buy several head of livestock mach sale day.

#### CHAPTER VI

# LIVESTOCK PURCHASES THROUGH AUTTIONS

Approximately 1,180,000 head of livestock were purchased through auctions in 1957. Of this total, 590,469 were cattle, 360,162 mere hogs, and 230,250 were sheep. Producers purchased the largest amounts of all three livestock species (Table II).

# Slaughter Livestock

etock. Most, if not all, suction managers like to have a representative of a packing plant attend the sales regularly. This encourages the slaughter livestock consignors to patronize the second and third most important buyers were nearly equal as the second and third wort important buyers of slaughter cettle and sheep. Order buyers were the second most important buyer of the slaughter hogs. Generally, order buyers attended actions which were not convenient for packer huyers to attend and these that did not have enough volume to werrent the presence of a packer buyer. Livestock dealers bought slaughter livestock on their own and resold to packing plants on a marginal basis. Dealers bought mostly elaughter cettle and sheep (Table VI). Neither producers nor speculators bought many slaughter livestock.

T.BLE VI. PERCENT GE OF SLAUGHTER LIVESTOCK PURCHASED THROUGH AUCTIONS BY TYPES OF BUYERS AND SPECIES OF LIVESTOCK IN SOUTH DAKOT, 1957.

Type of Consignor	Cattle	Hog s	She p
		Percent	
Producers	3.08	1.25	1.90
Dealers	17.58	3.33	17.62
Pack rs	62.85	67.08	60.48
Order Buyers	15.69	27.92	17.62
Others	•80	42	2.38
Totals	100.00	100.00	100.00

# Stocker, Feeder, and Other Live tock

Producers ranks high as buyers of the stocker, forder, and other livestic (T ble VII). The percentages of the three livestic species purchaged by producers were cattle 8.62, hogs 85.7, and theep 64.19.

Order buyers ranked second, followed by dealers in the purchase of this class of live tock. The second purchased by these two types of buyers was for lass than the sount purchased by producers. Tracers purchased only 2.58 percent of the cattle, 1.33 percent of hogs, and 1.43 percent of sheep (Table VII).

feeder, and other livestock through their all rims. One auction report that 31 percent of this class of livestock sold through its ring a purchase by packers, of which 6 percent eresettle and

TABLE VII. PERCENTAGE OF STUCKER, FEEDER, AND OTHER LIVESTOCK PURCHASED THROUGH AUCTIONS BY TYPES OF BUYERS AND SPECIES OF LIVESTOCK IN SOUTH PAKOTA, 1957.

Type of Comignor	Caltle	Hogs	Sheep
		Percent	
Producers	58.62	85.75	64.19
D. lers	14.25	5.75	12.74
Packer	2.13	. 29	1.19
Order Euyers	22.42	6.88	20.45
Others	28	1.33	1.43
Total	100.00	100.00	100.00

25 percent were sleep. The verage percentage purchased by pickers from all 27 auctions are as follo s: cattle 2.13, log .29, and she p 1.10 (T ble VII).

## CHAPT ET VII

# DI STA ICE S LI VESTOCK | FRF T FANSPORTED TO A NO IRON AUCTIONS

The distances that I we stock were shipped to auctions were divided into four concentric zone: zone 1 - less than 10 miles, zone 2 - 10 to 44 miles, zone 3 - 25 to 50 miles, and zon: 4 - more than 50 miles.

the smaller the percentage he auction received of the total live tock in that area. This was due in part to influences from various compatitive market outlet.

from the nearby country to destinations more than 250 miles away and in one instances half way across the nation. There were many indications given by auction managers that out-of-state live took feeders and packing plants were importing livestock from this at the in extensive numbers. Many specific instances had been cited of live took being this pad to both coasts.

Undoubtedly approximate limit winter beyond which certain classes and species of livestor were not transported. It was found

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<sup>16</sup> Ira R. Steven and R. L. Fox, Improving Livestock Marketing Efficiency, General Report 39, p. 9, Farmers Cooperative Service, United States Department of Agriculture, United States Government Printing Office: Washington 25, D. C., January, 1958.

in a wtudy carried on by the United States Department of Agriculture that hog farmers hauled their stock only one-third as far as the cattle producers.

Several outtions in the more heavily populated areas in South
Dakota received comparatively few livestock consignments beyond the
50 mile radius. Auction marks to generally were located close enough to
each other so that it was unnecessary for the consignors to transport
their stock more than 50 miles (Figure 5). The exception to this in
South Dakota was the West River area due to its sparse population.

## Cattle

Most stocker, feeder, and other cattle sold through auctions came from within 5 50 mile radius. The auction managers did not have a record of the distances cattle consignments originated from but they gave estimates which they believed to be somewhat accurate. An estimated 27 percent of the stocker, feeder, end other cattle originated in zone 1, 29 percent in zone 2, 26 percent in zone 3, end 18 percent in zone 4, (Table VIII).

The alaughter cattle consigned to euctions from each concentric zone differed appreciably from the stocker, feeder, and other cattle (Table IX). The auction managers estimated 30 percent originated from zone 1, 37 percent from zone 2, 24 percent from zone 3, and 7 percent from zone 4. One mest River auction manager reported that approximately 37 percent of the slaughter cattle consigned to his market came from zone 4.

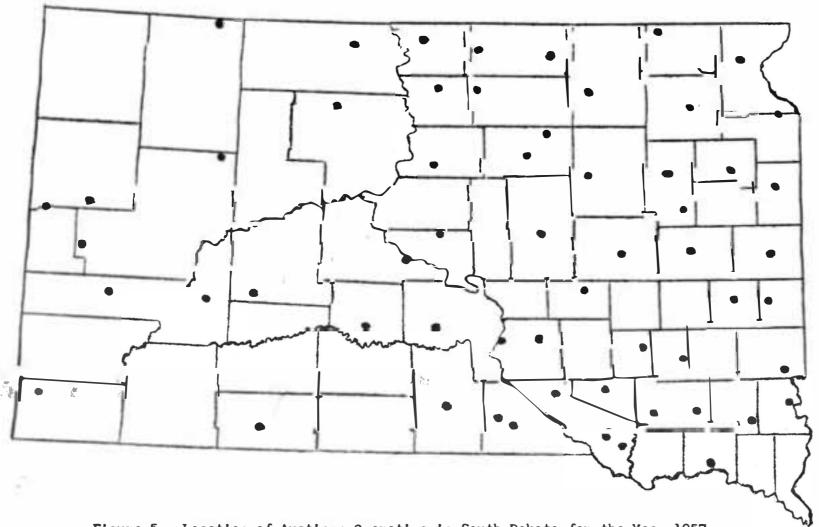


Figure 5. Location of Auctions Operating in South Dakota for the Year 1957.

TABLE WIII. PERCENTAGE OF STOCKER, FEEDER, AND OTHER LIFE TOCK CONSIGNED TO AUCTIONS BY ZONES AND SPECIES OF LIVESTOCK IN SOUTH DAKOTA, 1957

Zone	Miles	Cattle	Hog •	Sheep
			Percent	
1	Less than 10	27.11	33.00	25.52
2	10 - 24	29.31	34.21	30.33
3	2 -50	26.08	25.62	26.81
4	Nor than 50	17.50	6.17	17.34
Totals		100.00	100.00	100.00

T BLE IX. PERCENTAGE OF SLAUGHTER LIVE T CK CO SIGNED TO AUCTIONS BY ZONES AND SPECIES OF LIVESTOCK IN SUTH DAK T , 1 57.

Zon	Miles	Cattle	Hogs	Shoop
			Percent	
1	Less than 10	30.46	31.00	27.61
2	10 - 24	37.04	37.57	32.61
3	25 - 50	24.85	25.04	25.39
4	More than 50	7.65	_6.39	14.39
Totals		100.00	100.00	100.00

The estimated percentage of cattle shipped less than 50 miles from auctions was 39, 50 to 250 miles was 44, more than 250 miles was 17 (Table X).

## Hogs

An estimated 33 percent of feeder and breeding hogs originated in zone 1, 34 percent in zone 2, 27 percent in zone 3, and 6 percent in zone 4. The number of feeder and breeding hogs originating in zone 4 was much smaller than either cettle or sheep (Table VIII).

The number of hogs that were transported less than 50 miles from auctions amounted to 41 percent and an equal percentage was shipped from 50 to 250 miles. The remaining 18 percent was transported beyond 250 miles (Table X).

Three of the 27 auctions had 80 to 90 percent of their hogs transported beyond 250 miles. These auctions were in the central part of the state. The major hog buyers at these auctions were producers, packer buyers, and order buyers.

## Sheep

The estimated percentage of sheep shipped less than 50 miles was 47, 50 to 250 miles was 49, and beyond 250 miles was 4 (Table X). The percentage of sheep transported beyond 250 miles was much lower than either cattle or hogs.

It was found in this study that more than four times more funder and breeding sheep were consigned to the auctions than slaughter sheep.

TABLE X. PERCENTAGE OF ALL PURCHASED LIVESTOCK SHIPPED FROM FUCTIONS BY DISTANCES AND SPECIES OF LIVESTOCK IN SOUTH DAKOTA, 1957.

Hiles	Cattle	Hog <b>s</b>	Sheep
		Percent	
Less then 50	39.35	40.63	47.38
50 - 250	43.46	41.46	48.57
More than 250	_17.19	17.91	4.05
Totals	100.00	100.00	100.00

Forder and breeding sheep origin ted to thy to within a 50 mile radius (Table VIII). An estimated 26 percent origin ted from zone 1, 30 ercent from zone 2, 27 percent from zone 3, and 17 percent from zone 4.

The percentages of slaughter shop originating from e-ch zone

ers so e nat comer bloom at laughter cattle and hope with the

exception of zone 4 (Table IX). The estimated percent g s of slaughter

shop originating within zone 1 was 28, zone 2 was 32, zone 3 was 25,

zone 4 was 14 (Table IX).

Two auction anager indicated a rather large percent of consigned slaughter show that care from beyond the 50 mile radius.

One of these auctions had an estilated 52 percent of its aloughter should that originate from beyond 50 mile and the other auction received 7 percent from beyond to 0 mile radius. Both of these auctions are from the Mast liver re-

### CHAPTER VIII

## TARIFF CHARGED BY AUCTIONS

The charges made at the 27 sampled auctions varied widely.

Several auctions omitted some charges entirally but some of the other charges were unusually high, indicating possible padding of the fees charged. The commission fees of the auctions were usually a flat rate charge per head, however, five auctions charged on a percentage basis.

Many of the suction managers may have been unawars of the videle range of charges among various auction markets. Some of the auction managers indicated that they thought their charges were equal or possibly lower than their competitors rates.

The wide variations in methods of assessing selling charges and in the charges made at auctions suggest the desirability of working towards greater uniformity. The rates should be as equitable as possible both from the standpoint of the management and of those of consign livestock for sale. The posted rates should be applied uniformly to all consignors.

It is possible that tariffs charged by auctions should be examined more closely and more uniform rates adopted. This should prevent any minunderstancing between the auction manager and the auction patrons on this point.

Table XI depicts the mean, mode, and range of tariff charged by the suction markets in South Dakota.

<sup>17</sup> Dowell and Engelman, ov. cit., p. 39.

TABLE XI. THE MEAN, MODE, HANGE, AND TYPE OF TARIFF CHANGED BY AUCTIONS BY SPECIES OF LIVESTOCK IN SOUTH DAKOTA, 1957.

Types of Tariff		Cattle	Hogs	Sheep
Commission				
	Mean	\$1.32	5.43	1.36
	Mode	1.50	.50	.35
	Range	1.00-1.80	2570	.250
Yardage				
	Mean	\$ .32	\$.08	\$.07
	Mode	25	.05	.05
	Range	.1060	.0515	.0112
Feed				
	Mean	\$ .32	3.18 <sup>1</sup>	1.07
	Mode	.25	.00	$.05, .10^2$
	Range	.2050	none	.0310
Insurance				
	Mean	\$ .06	5.04	1.03
	Mode	05	.01	.01
	Range	. 6227	.0110	.0110
Veterinarian				
	Mean	\$ .06	1.03	1.03
	Mode	.05	.02	.02
	Range	.010	.0205	.0205
No-Sale3				

<sup>10</sup>nly three auctions listed a fied charge for hogs.

<sup>&</sup>lt;sup>2</sup>Ten auctions listed 5 cents and ten auctions listed ten cents as their charge for feed.

<sup>3</sup>It was not possible to tabulate a mean, mode, nor nge of nosale charges. Only ix auction reported no-sale tariff. One auction
charged 40 cents for cattle, ten cents for sheep, and no charge for logs.
One auction charged no commission plus balance of fees. To untions
charged one-half of the regular commission plus balance of fees. Two
auctions charged only one-half of the regular commission.

#### Commission Fees

Five suctions charged their commission on a percentage basis for the sale of cattle. The range of the percentage fees were from 1.2 to 2.5 percent of the sale. Two auctions also extended the percentage fee to hogs. The rates charged were 1.5 and 2.5 percent of the sale for the commission fee. Only one of the auctions used a percent ge basis for the commission fee in the sale of sheep. The fee charged was 1.5 percent of the sale.

The remaining 22 mampled auctions charged a flat rate per head of livestock. The mean commission charges for the cattle, hogs, and sheep, respectively, were \$1.32, \$0.43, \$0.36 (Table XI). The range of the charges for cattle was from \$1.00 to \$1.80 with a modal charge of \$1.50. The modal charge for hogs was 50 cents and the commission fees charged by the 27 sampled auctions ranged from 25 cents to 70 cents per head. The range of fees assessed for the sale of sheep were from 25 cents to 50 cents and the model charge w = 35 cents.

# Yardage Fees

The mean yardage fees collected by the 27 suctions were 32 cents for cattle, 8 cents for hogs, and 7 cents for sheep. The modal charges for cattle were 25 cents and 5 cents for both hogs and sheep. The range of charges for cattle was quite wide, it went from 10 cents to 60 cents per head. Hogs did not have as wide a range as cattle in the variation of fees charged. The range was from 5 cents to 15 cents. The range of

charges for sheep was from 1 cent to 12 cents per head with the model charge of 5 cents. Ten auctions listed 5 cents as their fee for yardage for sheep, however, nine auctions charged 10 cents. The model charge was 5 cents but it was not the true picture since an almost equal number of auctions charged 10 cents.

### Feed Fees

Cattle, hogs, and sheep were charged a mean of 32 cents, 18 cents, and 7 cents, respectively, for feed. The mean fee of 18 cents for hogs is misleading. Only three suction anagers stated that they charged a fee for hogs and one of them only if the hogs were actually fed.

The modal fees charged were 25 cents for cattle and no charge for hogs. The modal charges for sheep were 5 cents and 10 cents. Ten auctions listed 5 cents and mother ten auctions listed 10 cents as their feed charge for sheep. The range of charges for cattle was 20 cents to 50 cents. The range for sheep was from 3 cents to 10 cents per held.

### Insurance Fees

The mean fee charged for insurance by the auctions for cattle was 6 cents. The model charge was 5 cent per head and the range was from 2 cents to 27 cents per head. One auction charged 37 cents per head of cattle for insurance but this was not represent tive of the other auctions. This fee was such greater than the free charged by the remaining auctions, the highest of which was 10 cents per head. By

omitting this one euction, the range of fees charged would be from 2 cents to 10 cents. The mean fee charged for hogs was 4 cents and for sheep it was 3 cents. The range of fees charged for both hogs and sheep were 1 cent to 10 cents. The modal charge for the hogs and sheep was 1 cent for both species.

#### Veterinerian Fees

The mean charge, sodal charge, and range of charges were all the same for the hogs and sheep. The mean charge was 3 cents, modal charge was 2 cents and the range of charges was 2 cents to 5 cents per head.

The cattle had a mean fee of 6 cente per head and a modal fee of 5 cents.

The fees charged by the auctions ranged from 5 cents to 10 cente per head for cattle.

#### No-Sale Fees

Only six of the auctions indicated that they made a charge when the consignor declined to sell his livestock efter the highest bid was obtained. One auction charged 40 cents per head of cattle, nothing for the hogs, and 10 cents per head of sheep. Two auctions charged one-half of their regular commission in the case of a no-sale, two auctions charged one-half of their regular commission plus the balance of the regular fees, and one auction charged no commission but did charge the balance of the regular fees.

#### CHAPTER IX

#### SUMMARY

Since the first livestock suction began its regular weekly operation in 1930, the number of auctions and their volumes have steadily increased. At the time of this study, 64 auctions were operating in South Dakota.

The factors that were thought to have contributed to the expansion of the auctions are: the improvement of roads, increased number of small packers throughout the state, development of uniform grade and weight classifications, and an extensive dissemination of market news to producers.

It was found as a result of this study that convenience to auctions and lower transportation costs were major reasons for patronage of the market outlets.

Auction managers have listed telephone, person to person contact, radio and newspapers as the most widely used means of communication to contact patrons. The person to person contact and telephone had the best results. In the course of this study, it was found that auctions in other parts of the United States found that pooling livestock into large uniform lots tended to attract pickers and other large volume buyers. The use of livestock pooling brought higher prices and in turn encouraged more patronage by producers.

and other livestock. The number in this class consigned to suctions

was more than twice as large as the slughter live tock class.

Traders, dealers, and auction markets consigned a higher percentage of stocker, feeder, and other livestock class than they did of slaughter livestock. No definite avidence was available to explain this, but it might be due to the fact that slaughter livestock were sought out by the packers. They probably bid more than any other buyers cared to, thus discouraged speculation. Livestock producers were found to be the largest consignors to auctions.

The producers were also the largest purchasers of the livestock consigned to auctions, even though the packers purchased the major portion of the slaughter livestock. This was due to the large purchases and in the stocker, feeder, and other livestock class. The large purchases and consignments of the above class by producers may indicate several things. (1) Auctions were used as a place of exchange between feed deficit areas and feed surplus areas and (2) producers speculated with livestock.

It was found in this study that auctions received and shipped live took various distances. There were undoubtedly many factors influencing the distances livestock were transported. The distances livestock were transported. The distances livestock were transported from South Dakota auctions ranged from the nearby country to both coasts.

The tariff charged by actions were found to have considerable ranges for each of the fees listed. There were five actions that charged commissions on a percentage basis. The remaining actions charged their commissions on a flat rate basis. The remaining fees

charged by all the suctions were on a flat rate basis. Some of these auctions had omitted a fee, but it could be seen that one of the recaining fees were larger than usual.

of returns for each apecie and class of livestock sold through all market outlets in South Dakota. (2) A study of teriffs to ascertain whether the ranges are justified among the auctions. (3) A study to determine if a more effective system is needed for individual auctions to bring consignors and prospective buyers together. (4) A study to determine the volume on auction needs to operate efficiently and to attract a sufficient number of buyers to better assure high returns to the producers.

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