A STUDY OF LIVESTOCK MARKETING IN LENAWEE
AND HILLSDALE COUNTIES WITH EMPHASIS
ON INFORMATION THAT A DISTRICT MARKETING
AGENT CAN USE TO HELP FARMERS INCREASE
THEIR NET INCOME FROM MARKETING LIVESTOCK

Thosis for the Degree of M. S.

MICHIGAN STATE UNIVERSITY

Harvey J. Elliott

1960

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MARKETING AGENT CAN USE TO HELP FARMERS INCREASE
THEIR NET INCOME FROM MARKETING LIVESTOCK

A THESIS

Submitted to the School of Graduate Studies of Michigan State University of Agriculture and Applied Science in partial fulfillment of the requirements for the degree of

MASTER OF SCIENCE

Department of Agricultural Economics

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Harvey J. Elliott

ABSTRACT

The District Marketing Agent is a relatively new position on the staff of Michigan Cooperative Extension Service. The first agent was hired in July, 1954. This study is one of several being made at Michigan State University to provide a broad background of information that might assist a District Marketing Agent to help farmers solve marketing problems. Efforts were made by the author to provide some of the background information that would help a Livestock and Grain Marketing Agent in the Lenawee-Hillsdale district to analyze and solve marketing problems in the area.

This thesis was devoted to livestock marketing information which could be made available to livestock producers. It was divided into seven parts: (1) Importance of livestock to the area, (2) information sources available to the area, (3) when livestock should be marketed, (4) where livestock should be marketed, (5) how livestock should be marketed, (6) the costs of marketing livestock, and (7) the net return from marketing livestock.

A budget analysis was used to find the marketing costs and the net returns to livestock producers. Hypo-thetical examples of a large and a small producer from a

five mile vicinity of Adrian and of Hillsdale were used to test six markets in the area. The study included shrinkage losses as a cost of marketing livestock. Shrinkage is a considerable charge to marketing whether or not a producer realizes its importance.

The reader must realize that the net returns are those at the time the analysis was made and with the assumptions presented by the writer. Those who may wish to retest the markets may do so by substituting the current market prices of the class of livestock being marketed. The cost of marketing data will be usable until changes occur in the direct charges at the market place, in the transportation rates, or in shrinkage loss as might be determined from new information. The author would recommend the budget analysis as a means of testing alternative markets to determine the cost of marketing livestock and the highest probable net returns.

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ACKNOWLEDGMENT

The author wishes to express his sincere thanks to Dr. Robert C. Kramer, under whose leadership, inspiration, and unfailing interest this study was undertaken and completed.

He is indebted to Dr. L. L. Boger, Head of the Department of Agricultural Economics, who provided financial assistance to secure information in the counties and the areas involved in this study.

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He is further indebted to several members of the resident staff of Department of Agricultural Economics for their interest, assistance and objective criticisms.

The writer expresses sincere thanks to Mildred E. Bender, Ida B. Jones, St. Joseph County Extension Secretaries, and to Arlene King, Secretary, Department of Agricultural Economics, for their assistance in typing the

original manuscript.

And finally, he expresses gratitude and appreciation to his wife and children for their patience, encouragement, and self sacrifices.

NOTE TO THE READER

This thesis was started in 1955. The information secured from farmers regarding where they received their livestock marketing information and where, when, and why they marketed their livestock as they did was secured by personal interviews with farmers during April and May, 1955. Due to employment and family situations the author was unable to complete the thesis as planned in 1955.

The information used in analyzing the marketing problem was brought up to date in May, 1960. This was done by visiting the markets to secure the current marketing charges, transportation rates, and livestock prices.

The author was unable to make a new survey of farmers to determine the changes that may have occurred during the five-year period. The information secured from farmers and how it was secured is presented in Chapters I, III, and VII.

Forty-eight of the 76 farmers interviewed in 1955 had television sets. Recent surveys indicate that approximately 95 per cent of Michigan farmers own television sets. However, the author believes that television still ranks lowest in importance as a source of livestock information for farmers in southern Michigan.

TABLE OF CONTENTS

Chapte	er																				Page
I.	INT	RODUC	OITC	N.		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1
	A.	Pur	ose	of	St	tud	у.	•	•	•	•	•	•	•	•	•	•	•	•	•	1
	В.		erip										#il								1
	C.	Impo	orta	nce	to	L	i⊽∈	est	oc	k	in	ı t	the	A	re	a	•	•	•	•	4
	D.	Nati	ıre	of	the	P	rob	ole	m	•	•	•	•	•	•	•	•	•	•	•	5
	E.	Sour	rces	of	Da	ata	•	•	•	•	•	•	•	•	•	•	•	•	•	•	5
	F.	Sum	nary	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	8
II.		ORMAT USE												_						•	10
	A.	Mark	cet	Inf	orn	at	ior	ı U	se	d	bу	· I	ar	me	rs	3 •	•	•	•	•	11
		1.	Rad	io		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	11
		2.	New	spa	per	s.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	12
		3.	Mag	azi	nes	3 .	•	•	•	•	•	•	•	•	•	•	•	•	•	•	13
		4.	Tel	e v i	sic	n.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	13
		5.	Ind	i v i	dus	ıls	•	•	•	•	•	•	•	•	•	•	•	•	•	•	13
		6.	Spe	cia	ı ı	lar	ket	R	ep.	or	ts		•	•	•	•	•	•	•	•	14
	в.	Mark	cet :	Rep	ort	.	Ave	il	ab	le	t	0	Fa	. r n	er	. s	•	•	•	•	14
	c.	Summ	ary	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	19
III.	WHE	E TO) MA	RKE	T I	JIV	ESI	:0C	K	•	•	•	•	•	•	•	•	•	•	•	21
	A.	When	e F	arm	ers	s S	old	T	he	ir	L	i۷	res	to	ck		•	•	•	•	21
	в.	Desc	rip	tio	n c	f	the	M	ar	k e	ts	•	•	•	•	•	•	•	•	•	22
		1.	Det	roi	t S	to	cky	ar	ds	•	•	•	•		•	•	•	•	•	•	22
		2.	Tue	bil'	7 F	יטידי	duc	er	g.	Т	ກເ		Δ	ፖር	hr	ر آمر	đ.	()hi	0	23

S (1) **S** (1 • • • • • • •

		3.	Adri	ian	Li	ves	sto	ck	: \$	Sal	es		•	•	•	•	•	•	•	•	23
		4.	Cold	lwa	ter	Li	L▼€	est	00	k	Co	mn	ie	si	.or	ı A	luc	ti	Lor	1.	24
		5.	Hill	Lsd	ale	Δı	ıct	io	n	Co	mp	an	J	•	•	•	•	•	•	•	24
	C.	Summ	ary	•	• •	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	25
IV.	WHEN	7 LIV	EST	OCK	SH	0U1	M	BE	e i	IAF	RKE	CTE	D	•	•	•	•	•	•	•	26
	A.	Seas	onal	L P	ric	e s	•	•	•	•	•	•	•	•	•	•	•	•	•	•	26
	В.	Pric	e CJ	ycl	es.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	32
	C.	Shor	t-Ti	ime	Pr	ice	e I	lu	ıc t	tue	ati	.on	s	•	•	•	•	•	•	•	33
	D.	Summ	ary	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	34
٧.	HOW	LIVE	STO	CK	SHO	ULI) I	ΒE	MA	RK	ŒI	EI		•	•	•	•	•	•	•	36
	A.	Meat	-Typ	p e	Hog	s.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	36
	B.	Feed for																		ıt •	37
	C.	V eal	Cal	L▼e	s v	era	sus	ı I	e a	acc	ns	3.	•	•	•	•	•	•	•	•	3 8
	D.	Hand	line	g L	ive	sto	ock	٠.	•	•	•	•	•	•	•	•	•	•	•	•	3 8
	E.	Summ	ary	•	• •	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	40
VI.	SHRI	INKAG	E.	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	42
	A.	Catt	le.	•	• •	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	43
	B.	Hogs		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	4 9
	C.	Shee	p .	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	51
	D.	Summ	ary	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	52
VII.	MARK	KETIN	G CE	IAR	GES	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	5 5
	A .	Tran	spoi	rta	tio	n.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	55
	В.	Yard	ag e	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	58
	C.	Feed		•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	58
	D.	Weig	hina	₹•		•	•	•	•	•	•	•	•	•		•	•	•	•		59

```
. . . . . . . . .
•
. . . . . . . . . .
_____
```

	E.	Inst	ıran	ce	•				•	•	•	•	•	•	•	•	•	•	•	•	59
	F.	Nat:	ions	l I	liv	rest	tod	ek	an	đ	Mes	at	В	aı	rđ	•	•	•	•	•	60
	G.	Com	niss	sior	ıs				•	•	•	•	•	•	•	•	•	•	•	•	60
	н.	Ser	7ic e	e Cr	ar	ges	3 (•	•	•	•	•	•	•	•	•	•	•	•	63
	I.	Sum	nary	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	63
VIII.	NEI	RE	ľURN	rs 1	0.0	FAI	RMI	ERS		•	•	•	•	•	•	•	•	•	•	•	65
	A.	Net in																			68
	В.	Net in																			74
	c.	Net the																			
	D.	Net the																			
	E.	Net Far																		•	82
	F.	Net Far																	•	•	88
	G.	Net in																		•	89
	н.	Net in																		•	92
	ı.	Net the																			
	J.	Net the	Ret Vic	urr	ıs .ty	fro	om E H	No Hil	is	l da	Hog le	g s •	fo	r	Fa •		er	·s	ir.	·]	L01
	K.	Sum	nary	•	•				•	•	•	•	•	•	•	•	•	•	•]	102
IX.	SUL	MAR	(AN	ס ס	ON	CLU	JS:	ION	s.	•	•	•	•	•	•	•	•	•	•]	108
BIBLIC	GRAI	PHY.		•	•				•	•	•	•	•	•	•	•	•	•	•]	114
איזוסס א	ידעבי	2																			

· · • • • • • • • • •

•

LIST OF TABLES

Table		Page
I.	Livestock Numbers on Farms January 1 and Sows Farrowed in Lenawee County for the Eleven Year Period Beginning in 1949	. 6
II.	Livestock Numbers on Farms January 1 and Sows Farrowed in Hillsdale County for the Eleven Year Period Beginning in 1949	. 6
III.	Indexes of Seasonal Price Variations of Major Michigan Farm Commodities	
IV.	Per cent of Shrink for 60 Fat Cattle Between Each Check Weighing During a 200 Mile Truck Haul	. 45
٧.	Per cent of Shrink for Choice Steers, Hogs, Lambs, Veal Calves, and "Dry" Cows Related to Length of Haul	. 4 8
VI.	Relationship of the Length of Haul to Shrinkage of Hogs	
VII.	Truck Transportation Charges for Hauling Individual, Medium, and Large Lots of Cattle, Calves, Hogs, and Sheep to Markets of Various Distances	
VIII.	Transportation Distance to Market Livestock for Two Producers Living Near Hillsdale and Adrian	. 67
IX.	Price Per Hundredweight for Five Classes of Livestock at Six Markets, Week of May 16-22, 1960	. 68
х.	Marketing Charges for 1000 Pound Choice Steers from Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960	7
XI.	Net Returns from Marketing 1000 Pound Choice Steers for Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960.	. 70

XII.	Marketing Charges for 1000 Pound Choice Steers from Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960	77
XIII.	Net Returns from Marketing 1000 Pound Choice Steers for Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960.	7 8
XIV.	Marketing Charges for 1000 Pound Cutter Cows from Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960	80
XV.	Net Returns from Marketing 1000 Pound Cutter Cows for Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960	81
XVI.	Marketing Charges for 1000 Pound Cutter Cows from Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960	83
XVII.	Net Returns from Marketing 1000 Pound Cutter Cows for Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960.	84
XVIII.	Marketing Charges for 190 Pound Choice Veal Calves from Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960	86
XIX.	Net Returns from Marketing 190 Pound Choice Veal Calves from Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960	87
XX.	Marketing Charges for 190 Pound Choice Veal Calves from Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960.	90
XXI.	Net Returns from Marketing 190 Pound Choice Veal Calves from Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960	91
XXII.	from Large and Small Producers in the Vicinity	93
XXIII.	Net Returns from Marketing 90 Pound Choice Lambs from Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960	94

•

• •

XXIV.	Marketing Charges for 90 Pound Choice Lambs from Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960	96
XXV.	Net Returns from Marketing 90 Pound Choice Lambs from Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960	97
XXVI.	Marketing Charges for 200 Pound No. 1 Hogs from Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960.	99
XXVII.	Net Returns from Marketing 200 Pound No. 1 Hogs from Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960.	100
XXVIII.	Marketing Charges for 200 Pound No. 1 Hogs from Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960	103
XXIX.	Hogs for Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22,	104

LIST OF FIGURES

Figure		Page
1.	Seasonal Prices of Hogs, Veal Calves, and All Beef Cattle in Michigan, Pre-War (1933- 42) and Post-War (1947-54) Periods, Compared	28
2.	Seasonal Prices of Wool, Sheep, and Lambs in Michigan, Pre-War (1933-42) and Post-War (1947-54) Periods Compared	

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I. INTRODUCTION TO THE PROBLEM

A. Purpose of the Study

Farmers of Lenawee and Hillsdale counties and Michigan State University have recognized a need for increasing the income of livestock producers of these counties through an improved marketing program. A District Marketing Agent has been employed by the Cooperative Extension Service as of June 1, 1955, to work with the farmers, the marketing agencies, and the news disseminating services to fulfill this need.

The purpose of this study is to determine through the use of primary and secondary data what some of the real problems are, how and where farmers market their livestock, why they market as they do, the source and kind of market information farmers receive and use, and what a District Marketing Agent can do to help farmers receive a higher price or reduce the marketing costs for the livestock to be sold.

B. Description of Lenawee and Hillsdale Counties

Lenawee County is located in the southeastern part of Michigan on the Ohio state line. Hillsdale County

lies adjacent to the west and lies next to the Ohio and Indiana state lines.

There is a great variety of soils ranging from the very heavy soil types of Miami, Brookston, and Hills-dale, to the very lightest Plainfield, Fox, and Bellfon-taine. There are isolated muck areas which are of no great economic importance. A comprehensive county drainage system has been established in the level, poorly drained, heavy soil areas. Much of the farm land of Lenawee County is tile drained.

Adrian is the county seat of Lenawee County.

It has a population of 18,000 persons. The county population is 65,000. The population is 21.1 per cent rural farm residents, 38 per cent urban, 41 per cent rural non-farm (village), and 14.9 per cent rural non-farm non-village.

Hillsdale is the county seat of Hillsdale County. It has a population of 7,000 persons. The county population is 32,000 persons. The population is 41.4 per cent rural farm residents, 22.9 per cent urban, 19.1 per cent rural non-farm (village), and 16.6 per cent non-rural non-village.²

¹J. O. Veach, <u>Soil Survey Map</u>, U.S. Dept. of Agriculture, Bureau of Soils, in cooperation with the Michigan Agricultural Experiment Station, revised, 1953.

²Anon., <u>How Does Your County Rate</u>? A county breakdown of statistics from census reports and various other sources. Prepared by the Dept. of Land Use and Water Conservation, Michigan State University, July, 1954.

L. G. Hall³ stated, "This area of the state was one of the earliest settled for farming in Michigan," and, "the farm population has become fully Americanized and it is quite easy to find natural leaders in the community."

D. G. Leitch⁴ stated, "the people have a rather heterogenous background as far as nationalities are concerned," and "there is no group or community that sets itself apart from the rest because of national heritage or religious beliefs."

Michigan is divided into 17 type-of-farming areas based largely on sources of farm income and prevailing kinds of crops and livestock. Hillsdale and Lenawee Counties make up the greater part of Area I classified as a General Livestock and Corn Area.

The most important source of farm income for Area I is from the sale of livestock--mostly cattle, hogs, and sheep. The other sources of income in order of importance are dairy products; field crops--mostly wheat, sugar beets, and soybeans; and poultry and poultry products. On some farms, truck crops such as tomatoes, sweet corn, squash, melons, cabbage, and potatoes are important sources of income.5

The area has adequate railroad services and the state and county roads are surfaced to such a degree that the means for transportation

Jouis G. Hall, Annual Report of Cooperative Extension Work in Agriculture and Home Economics, Lenawee County, 1954, page 4.

Duncan G. Leitch, <u>Annual Report of Cooperative</u>

<u>Extension Work in Agriculture and Home Economics</u>, Hillsdale
County, 1954, page 2.

⁵Elton B. Hill and R. Mawby, <u>Types of Farming In Michigan</u>, Special Bulletin 206, second revision, September, 1954, page 30.

of farm products is favorable. Its close proximity to the Detroit, Toledo, and Cleveland industrial area lends to the ease of marketing and the advantage of favorable price levels for all farm products grown.

C. Importance of Livestock in the Area

During the 11 year period 1949-1959, the number of cattle and calves of all ages on Lenawee and Hillsdale farms on January 1 increased from 85,800 to 91,000. The two counties had 4.9 per cent of the state total of 1,829,000 head. The number of milk cows decreased from 50,500 to 37,600 but still totaled 4.5 per cent of the 820,000 milk cows in the state. The number of stock sheep increased from 21,800 to 26,000 or to 7.7 per cent of the state total of 336,000. The number of sows farrowing decreased from 28,070 to 16,500 which was 9.1 per cent of the state total of 180,000 farrowings. 7

A comparison of livestock on farms by counties on January 1, 1959, shows Lenawee ranked 4th in the number of all cattle and calves of all ages, 17th in the number of milk cows, and 3rd in the number of stock sheep. Hills-dale County ranked 12th in the number of all cattle and

⁶Louis G. Hall, op. cit., page 3.

⁷Michigan Agricultural Statistics, Michigan Dept. of Agriculture, Bureau of Animal Industry, Cooperating with the United States Dept. of Agriculture, Agricultural Marketing Service, 1949 through 1959.

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calves of all ages, 11th in the number of milk cows and 10th in the number of stock sheep. 8

Lenawee County ranked 1st along with Cass County in the total number of sows farrowed. Hillsdale County ranked 6th. There are 83 counties in Michigan.

The eleven year trend of livestock on the farms of Lenawee and Hillsdale on January 1 and of the number of sows farrowing by years is shown in Tables I and II.

D. Nature of the Problem

The problem is primarily one of determining what livestock marketing information is available to farmers in the area and how it might be used by a District Marketing Agent to help farmers increase their net earnings.

E. Sources of Data

A personal interview of seventy-six farmers was conducted in Lenawee and Hillsdale counties. A random list was prepared by taking the name of the first two full-time farmers from each page of the county directories. The names of these farmers were then arranged by townships.

⁸Ibid. 1949 through 1959.

⁹Ibid. 1949 through 1959.

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Table I. Livestock Numbers on Farms, January 1, and Sows Farrowed in Lenawee County for the Eleven Year Period Beginning in 1949.*

Jan. 1		ck Numbers County Fa	Number of Sows Farrowed					
(year)	All Cattle and Calves	Cows, 2+ for milk	Stock Sheep	Spring Dec.l- June 1	Fall June 1- Dec. 1	Total		
1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959	46,100 47,200 46,600 41,800 53,000 55,000 45,000 38,000 39,000 38,000 41,000	26,500 22,400 20,000 20,000 23,900 23,000 24,000 20,500 19,100 19,300 19,500	12,000 14,000 15,900 17,000 15,700 15,600 9,800 11,000 11,800 10,000	9,000 8,070 8,600 8,400 5,400 6,500 5,400 4,100 4,100 3,400 3,000	6,810 5,890 10,000 7,200 8,200 8,500 3,500 3,700 3,800 3,200 3,900	15,810 13,960 18,600 15,600 15,000 8,900 7,800 7,900 6,600 6,900		

^{*} Source: Michigan Agricultural Statistics, Michigan Dept. of Agriculture, 1949 through 1959.

Table II. Livestock Numbers on Farms, January 1, and Sows Farrowed in Hillsdale County for the Eleven Year Period Beginning in 1949.*

Jan. 1		ck Numbers e County	Number of Sows Farrowed				
(year)	All Cattle and Calves	Cows, 2+ for Milk	Stock Sheep	Spring Dec.l- June 1	Fall June 1- Dec. 1	Total	
1949 1950 1951 1952 1953 1954	39,700 39,800 44,700 44,700 48,000 45,000 55,000	24,000 22,500 25,600 23,800 21,700 24,000 23,000	9,800 9,800 11,700 11,700 11,100 10,600 15,600	6,980 7,530 5,700 4,900 4,500 5,400 6,500	5,280 4,920 4,300 3,400 3,600 3,500 8,500	12,260 12,450 10,000 8,300 8,100 8,900 15,000	
1956 195 7 1958 1959	50,000 48,000 46,000 50,000	18,500 19,000 18,000 18,100	15,000 14,500 13,000 16,000	6,000 6,600 5,300 5,100	4,600 4,600 4,000 4,500	10,600 11,200 9,300 9,600	

^{*} Source: Michigan Agricultural Statistics, Michigan Dept. of Agriculture, 1949 through 1959.

There was an average of 12 farmers per township. The County Agricultural Agents of the two counties were asked to select two names from each of the townships. The basis for selection was to secure at least one farmer who was making the sale of livestock one of his main sources of income and one farmer who was making the sale of cash grain his main source of income.

The author interviewed thirty-six farmers from the eighteen townships in Hillsdale County. 10 Carlton Dennis, a graduate student working on a related problem in grain marketing, interviewed forty farmers in Lenawee County. Dividing the interviews this way it was possible for each interviewer to secure the information needed for both problems with one call at the farm.

Information regarding livestock market news that was being provided to farmers from radio and television stations in the area was requested by mail.

Marketing charges and volume of business conducted was secured by a questionnaire, a personal visit, or a telephone call, from all the auction markets and terminal markets serving the area.

The author visited the auction markets at Hills-dale and Adrian to interview truckers, farmers, and auction personnel.

¹⁰ The survey form may be found in the appendices.

F. Summary

The District Marketing Agent is a relatively new position in the expanding program of the Michigan State University Cooperative Extension Service. The agent must be a pioneer in this field of service dedicated to help farmers solve their marketing problems in Michigan. There is much information available for the agent to use. There are years of experience in working with people in the extension service that should be of help. This thesis was developed to assist the livestock and grain District Marketing Agent in the Lenawee-Hillsdale district.

Primary data were secured through a survey of farmers living in Lenawee and Hillsdale counties. Personal interviews with personnel in the marketing industry were also conducted. Two farmers were selected from each of the thirty-eight townships in the district. The seventy-six farmers gave basic information as to where they were marketing their livestock and why and what marketing information they were securing, from what sources, and how they were using it.

Information regarding the markets, livestock transportation, and sources of information in the area was secured through correspondence and personal interviews with people in the livestock industry.

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Secondary data were secured from the Michigan Agricultural Statistics, County Extension Agents' reports, textbooks, bulletins, and miscellaneous special studies covering phases of the problems.

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II. INFORMATION ON LIVESTOCK MARKETING AVAILABLE FOR USE BY A DISTRICT MARKETING AGENT

In this chapter information that has an important bearing on the main problem of determining the farmer's marketing costs and his net returns is discussed. It will include what information the farmers have, the information available to them, and information that should be considered in making decisions regarding when to market livestock, where to market livestock, and how to market livestock.

F. L. Thomsen 11 says:

Many farmers can contribute to more efficient marketing by doing a better individual job of marketing their own livestock. This means a more skillful job of deciding when, where, and by what method to market. This requires (1) familiarity with the various market outlets which are available, (2) use of market news reports and other information in following current market conditions, for the purpose of taking advantage of temporary market strength at or about the time the livestock is ready for marketing, and (3) use of outlook information in coordinating the farm production program with marketing so as to take maximum advantage of seasonal, annual and cyclical changes in commodity prices.

In the Lenawee-Hillsdale area, the importance of when to market livestock is illustrated by the responses

¹¹ F. L. Thomsen, Agricultural Marketing, McGraw-Hill Book Company, Inc., New York, Toronto, London, 1951, page 427.

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in the interviews of 76 farmers. When asked how they determine when to sell their livestock, only 26 of them used seasonal price and outlook information in deciding when to have their livestock ready to sell. The others raised the livestock, sold when it was ready for market or when they needed themoney. Only 49 of the 76 used daily market quotations to assist in determining when to market their livestock. Seventeen started their livestock to market when ready or convenient. Some sold when their trucker or commission men indicated they should.

A. Market Information Used by Farmers

Radio. The most important source of livestock market information was radio. Sixty-four farmers of the 76 interviewed gave this as their most important source, seven made it their second choice and three their third choice.

Forty-nine farmers received market news from the morning program on Radio Station WJR in Detroit and twenty-one from the noon program on this station. Marshall Wells, commentator, is very popular with the rural people. His programs are presented between 6:00 a.m. and 6:30 a.m., and 12:15 p.m. and 12:30 p.m., every day except Sunday. Market quotations are from the Detroit and other mid-west stockyards.

Nine farmers followed livestock market reports

from Radio Station WOWO, Fort Wayne, Indiana. The commentator is Jay Gould. Fifteen farmers, mostly in Lenawee County, followed reports from Radio Station WABJ, Adrian.

Other radio programs mentioned as valuable to six or fewer of the farmers interviewed are as follows.

₩'nVB	Coldwater	AP	News	Wire

WKAR	East	Lansing	AP News Wire
		_	Detroit Market News Wire
			Michigan Livestock Exchange,
			Michigan Livestock Auction

Report

WPAG Ann Arbor Michigan Livestock Exchange,

Detroit, and AP Wire

WSPD Toledo, Ohio UPI Wire

CKLW Windsor, Can. Ridley Commission Co.,

UIP Wire

WMAQ Chicago, Ill. AP and UPI Wire

WLS Chicago, Ill. Chicago Yards

WGN Chicago, Ill. Chicago Union Stockyards

Newspapers. All the farmers interviewed subscribed to a daily newspaper. Seven farmers indicated newspapers as their most important source of livestock market news, forty-five made it their second choice, and twelve their third choice. Twenty-eight farmers living in Hillsdale County depended upon the Hillsdale News. Forty-four depended upon the Adrian Daily News. Other daily papers were the Toledo Blade, Jackson Citizens' Patriot, and Chicago Daily Drovers' Journal.

The weekly newspapers were unimportant as a source of market news. There were fifteen weekly newspapers being subscribed to by the farmers interviewed. Only one was reported to carry livestock market information.

Magazines. Magazines were listed by the farmers interviewed as the fourth most valuable source of livestock marketing information. In contrast to radio and newspapers where current price and market receipts were of value, this source was used to learn trends in price, production, movements of livestock, and the outlook situation for producers.

Television. Forty-eight of the seventy-six farmers interviewed owned television sets. Only ten rated it as important, one as most important, five as second choice, and four as third choice.

The popular program was from WSPD, Toledo, Ohio. It is largely a participation program with interviews featuring County Agricultural Agents, Home Demonstration Agents, Specialists from O.S.U. and M.S.U., FFA, FHA, and 4-H Club members, and farmers. The livestock quotations are from the Cleveland and Chicago markets. Unfortunately for the Michigan farmers the program starts an hour earlier when Ohio changes to Eastern Daylight Time.

Individuals. Forty-two farmers looked to other people for help in making their decisions. Twenty-two farmers consulted

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with their truckers as to when and where to sell their livestock. Ten farmers consulted with commission men, eight with livestock buyers, five with their neighbors, and one with his County Agricultural Agent. Most farmers indicated individuals of third importance after radio and newspapers.

Special Market Reports. The U.S.D.A. Market News Service, Michigan Crop and Livestock Reporting Service, and private news services were considered as least important by the farmers interviewed. Nine farmers followed market news from their bank newsletter, four received the Michigan Livestock Exchange Bulletin, five received livestock market reports from the U.S.D.A. Market News Service, and five received the livestock reports from the Michigan Crop and Livestock Reporting Service. Most of the latter group were cooperating reporters for the service.

The survey brought out the fact that farmers know little regarding what special market reports are available, the type of information that they contain, or where and how they may be secured.

B. Market Reports Available to Farmers

Price and livestock movement reports received daily by radio and newspapers by farmers may be supplemented

by mail from U.S.D.A. Market News Services located at terminal livestock markets. Two regular reports that some farmers could use advantageously are:

"Detroit Livestock Market Report." Agricultural Marketing Service, Room 204, 6750 Dix Avenue, Detroit 9, Michigan. Reports Monday and Thursday, Free. -- Report of receipts and prices for livestock by classes for Detroit Market, some information on trends and other markets.

"Livestock Market Report from Chicago." Agricultural Marketing Service, Room 301, 999 Exchange Avenue, Chicago 9, Illinois, Free. -- Two reports weekly of receipts and prices by classes of livestock and brief statement on market conditions. Some information on receipts or other markets. Special cattle on feed and pig crop estimates frequently made available on back of this report.

The Agricultural Marketing Service of the United States Department of Agriculture, Washington 25, D.C., releases regular and special reports on production, slaughter, prices, and outlook that are available free to farmers who request them. Information is received from state statisticians, news analysts at the terminal markets, farmers and others.

The State Statistician of the Michigan Crop and Livestock Reporting Service, Lansing 4, Michigan, releases information that applies to the State of Michigan within

one to three days following the USDA releases. These releases present Michigan conditions as compared to the United States as a whole. The author believes the Michigan releases are of greater value to the farmers covered in this study.

Following are the Michigan livestock, feed and market reports and their approximate release dates.

Commercial Livestock Slaughter, cattle, calves, hogs, and lambs, last day of each month.

Cattle on Feed, middle of the month, January, April, July and October.

Sheep on Feed, middle of the month, January.

Stocker and Feeder Shipments from Public Markets, monthly.

January 1st Number of Livestock and Poultry on Farms, February 14.

Calf Crop Report, middle of month, February.

Wool Production, February 25 and August 4.

Lamb Crop Report, middle of month, March, May, July and November.

Production Shorn Wool, early August.

Pig Crop Report, June 24, December 24.

Summary of Auction Market activities, each Monday.

Other market reports offering information to help farmers decide when, where and how to market their livestock are as follows. The description includes where

the report may be secured, when it is released, how much it costs, and the type of information it contains.

"Livestock Market News - Reviews and Statistics." Livestock Division, Agricultural Marketing Service, United States Department of Agriculture, Washington 25, D.C. Weekly, Free. -- Current price and supply information for livestock, meat and wool as assembled from all the major markets. Brief articles summarize important factors affecting current market activity.

"The Livestock and Meat Situation." Market Information
Division, Agricultural Marketing Service, USDA, Washington,
25, D.C. Published 6 times a year, Free. -- Provides an
analysis of supply and demand conditions affecting livestock and meat prices. Forecasts of expected market trends
are made.

Stocker and Feeder Report. Market News Office, 760 Live-stock Exchange Building, Zone 2, Kansas City, Mo. Weekly, Free. -- Provides a summary of local market conditions for the week on stocker and feeder cattle, hogs and sheep, plus statistical tabulations covering State destinations of shipment, numbers and average prices.

"The Wool Situation." Marketing information Division,
Agricultural Marketing Service, USDA, Washington 25, D.C.,
4 times a year, Free. -- Current information on the wool
market, trends and outlook.

"The Feed Situation." Market Information Division, Agricultural Marketing Service, USDA, Washington 25, D.C., Monthly, Free. -- Provides an analysis of supply and demand conditions affecting price and utilization of livestock feeds.

"Marketing and Transportation Situation." Market Information Division, Agricultural Marketing Service, USDA, Washington 25, D.C., Monthly, Free. -- Contains tables showing food marketing charges and farmer's share, consumer incomes and expenditures, recent trends in the retail food trade and recent improvements in transportation equipment and services.

"Mid-Month Farm Commodity Prices." Michigan Crop and Live-stock Reporting Service, P.O. Box 1020, Lansing 4, Michigan, 1st of each month, Free. -- Average prices of commodities sold by Michigan farmers.

"The Demand and Price Situation." Marketing Information
Division, Agricultural Marketing Service, USDA, Washington
25, D.C., Monthly, Free. -- Contains summary of general
business conditions, world commodity prices, farm cash
receipts, and commodity outlook information.

"Michigan Farm Economics." Agricultural Economics Dept.,
Room 38, Agriculture Hall, Michigan State University, East
Lansing, Michigan, Monthly, Free. -- Provides articles on
marketing and other agricultural economics subjects. Reports

indexes of prices paid and prices received for Michigan farm products.

"Chicago Daily Drovers Journal." Union Stock Yards, Chicago 9, Illinois. Published daily Monday-Friday, \$7.50 a year. -- Carries livestock market reports and other timely market information on livestock. Also gives market information on grains, feedstuffs, poultry and eggs.

C. Summary

The seventy-six farmers that were interviewed indicated many sources of information were available. Each farmer was asked which radio and television programs he preferred for market information, which newspapers, magazines, and special reports he received, and whether or not he consulted with individuals for marketing advice.

Radio programs were found to be the most important source of livestock market information. The daily newspapers ranked second. Individuals, especially truckers, commission men, livestock buyers, and neighbors, were third in importance. These were followed by magazines, special reports and television.

Farmers expressed preference for the market reports from Radio Stations WJR of Detroit and WABJ of Adrian.

The Adrian Daily Telegram and the Hillsdale News were the

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important newspapers in the area. The weekly newspapers were not important as a source of market news.

There are many market reports available to farmers which are not being used. Several could be of value to farmers in their areas of specialized interest. Others might be of more value to the District Marketing Agent in his need to keep up to date in the total marketing field.

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III. WHERE TO MARKET LIVESTOCK

Farmers can market livestock at terminal markets, livestock auctions, packing plants, local butchers, locker plants, country dealers, and to other farmers. They may also slaughter and sell direct to the consumer.

A. Where Farmers Sold Their Livestock

In Hillsdale and Lenawee Counties many of the better-grade cattle were sold through the Detroit Terminal Market or at Lugbill Producers, Inc., of Archbold, Ohio. About one-half of the farmers sold their lower-grade steers and heifers, cows, and calves at local auctions at Archbold, Adrian, Hillsdale, and Coldwater. About 40 per cent of the farmers sold their lower-grade cattle and calves at the Detroit Terminal. Ten per cent of the farmers sold to country dealers. Practically all the deacon calves were sold at auctions, a few were sold to dealers.

Half of the sheep and lambs were sold at Detroit and the other half were sold at local auctions.

About 45 per cent of the farmers sold their hogs at the Detroit Terminal Market, 30 per cent to livestock dealers, 20 per cent to local auctions, and 5 per cent

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to packing plants. Feeder pigs were sold at local auctions and to other farmers.

B. Description of the Markets

The six markets selected for this study were those at which most of the farmers were selling their livestock. One local dealer market was selected to represent all dealers. The author does not in any way want the reader to feel that the packer, butcher, locker plant, and other buyers are not desirable markets for some farmers for some classes of livestock.

Detroit Stockyards. The Detroit Stock Yards were established in 1882. Livestock may arrive by rail and by truck. At the present time, ninety-two per cent of the salable livestock arrives by truck. The Stock Yards also receive and handle livestock shipped direct to packers and for further shipment. When all livestock receipts are considered, 75 per cent arrives by truck. The bulk of the livestock is hauled by truck from a radius of 75 to 80 miles from Detroit.

The Detroit Stock Yards is a posted market. It is owned by the New York Central Railroad System. The United States Department of Agriculture supervises practices and regulates charges. Facilities for buying and selling, feeding and watering, veterinary inspection, sorting

and classifying, receiving and delivery, weighing, recording and accounting for sales, and collecting and remitting proceeds of sales are provided.

The Ridley Commission Company and the Michigan Livestock Exchange are the two registered agencies that represent buyers and sellers on the market. About fifty packer buyers purchase the slaughter livestock on this market.

Livestock are consigned by the farmer, trucker, or Stock Yards Company, to one of the two commission agencies upon arrival. When they are sold, they are weighed, and moved to holding pens for the buyer.

This market is recognized as a good calf and cattle market.

Lugbill Producers, Inc., Archbold, Ohio. This is a corporation auction market owned by Lugbill Brothers. Ten to twenty packer buyers, two to three order buyers, as well as the corporation buy regularly at this market.

Sales are conducted Mondays and Thursdays starting at twelve o'clock noon. The corporation buys directly
from farmers daily.

The average weekly volume is 600 to 700 head of cattle, 275 to 300 calves, 850 to 900 hogs, 200 feeder pigs and 500-600 sheep and lambs.

Adrian Livestock Sales. This market is about twenty years old and is privately owned. Sales are conducted each

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Tuesday starting about 1:00 p.m. The manager purchases livestock direct from farmers on Mondays and Thursdays.

The average weekly volume of livestock is 250 head of cattle, 200 calves, 700 hogs, 1000 feeder pigs, and 300 sheep and lambs.

The livestock are penned upon arrival, sold, weighed immediately after selling, and put in buyers pens after the sale.

Coldwater Livestock Commission Auction. This market was noted as a good hog market by the farmers interviewed.

It is operated as a partnership. Sales are held each Thursday starting at 1:00 p.m.

The auction does not buy livestock at the sale or directly from farmers on other days.

Hillsdale Auction Company. This market is privately owned. It is known as a farmer's market. The buyers are mostly farmers who are looking for dairy cows, feeder cattle, calves, and feeder pigs. The volume of slaughter animals is small.

Sales are held each Saturday starting at 11:30 a.m. No direct buying is done by the management.

This is one of the oldest auctions in Michigan, starting some fifty-five years ago. The auction sells everything from potatoes, hay and rabbits, to furniture and farm equipment.

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C. Summary

There were many places available to farmers for marketing the livestock produced in Lenawee and Hillsdale counties. The interviews with farmers indicated that most of the livestock was sold at the Detroit Stockyards and local auctions. Some was sold to country dealers, direct to packing companies, and to other farmers.

The five markets at which most of the livestock was sold were selected for this study. They were the Detroit Stockyards, Lugbill Producers, Inc., at Archbold, Ohio, Adrian Livestock Sales, Coldwater Livestock Commission Auction Company, and the Hillsdale Auction Company. In addition a country dealer near Adrian and one near Hillsdale were also used in the analysis. The country dealer, referred to as the local market in this thesis, would be one within close transportation distance to any farmer with livestock to sell. The five markets plus the one dealer available to the producer comprise the six outlets or markets used in the following parts of this study.

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IV. WHEN LIVESTOCK SHOULD BE MARKETED

This chapter will be devoted to livestock price movements and the application of this information in making decisions as to when to market livestock. Seasonal price movements, price cycles, and short-time price fluctuations will be discussed.

A. Seasonal Prices

All agricultural commodities are characterized by some seasonality of production and marketing. An index of seasonal price variations over a period of years will show the time of year that prices will generally be higher or lower than the average price for the year. See Table III for an index of livestock prices for the ten year period (1947-56). The index may change over a period of time due to changes in production, feeding, and marketing practices by the farmers. This is shown by a comparison of the seasonal price patterns of the pre-war period (1933-42) and the post-war period (1947-54). See Figures 1 and 2.

The typical seasonal price movement of all beef cattle shows the seasonal peak to be in July during the post-war period. In the pre-war years, May was the month of the seasonal peak. See Figure 1 (C). The difference is not significant for reasons discussed in the next paragraph.

TABLE III. INDEXES OF SEASONAL PRICE VARIATION OF LIVESTOCK Based on data for the years 1947 to 1956*

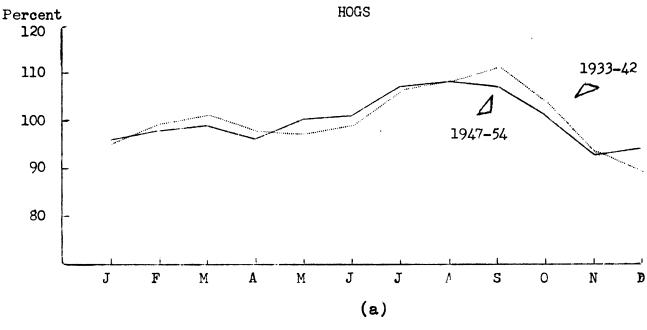
Commodity	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	0ct	NOA	Dec
Slaughter Steers, Chicago Prime Choice Good & Standard Utility	105 100 100	99 95 100 100	97 95 103	95 96 104	94 101 101	94 103 105	97 102 104	100 104 103	104 106 103 98	104 105 95	104 103 95	104 101 98 94
Veal Calves	101	108	101	98	100	98	97	66	100	66	96	98
Cows, utility, Chicago	98	66	104	101	110	101	102	98	66	95	91	93
Feeder Steers, (500-700#) Chicago	97	97	103	104	106	102	97	97	101	102	100	93
Barrows & Gilts, (200-220#) Chicago	91	93	95	101	115	117	110	105	98	91	87	90
Sows, (360-400#) Chicago	89	94	98	110	114	108	103	105	105	98	89	87
Lambs	98	100	103	104	105	100	103	102	100	97	94	95

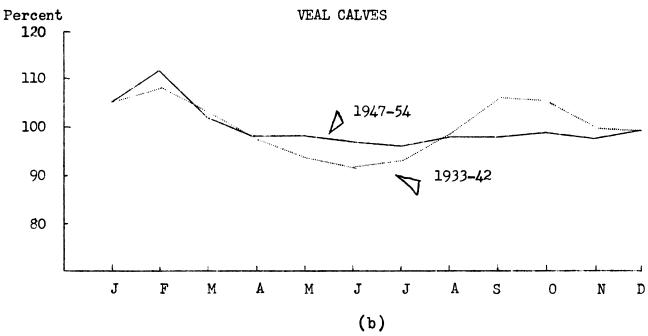
Lamb and veal Service. Sources: Chicago Livestock prices were obtained from AMS, USDA. prices were obtained from the Michigan Cooperative Crop Reporting * Sources:

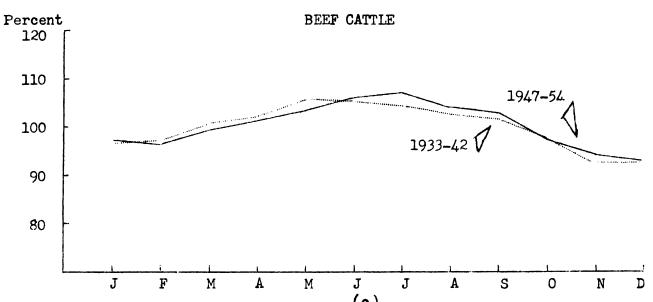
Computation: The index for each month is the mean of the ratios of actual prices to a 12-month moving average. Indexes for Barrows & Gilts and Sows, were adjusted to account for shifting seasonal patterns.

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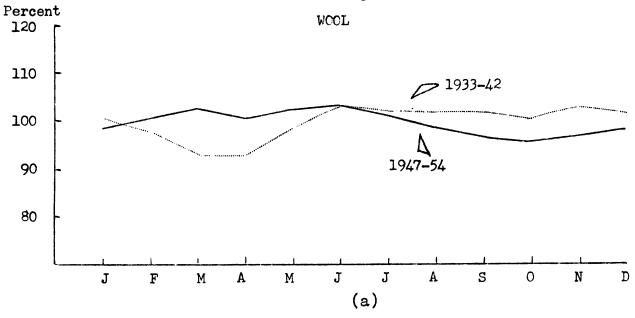
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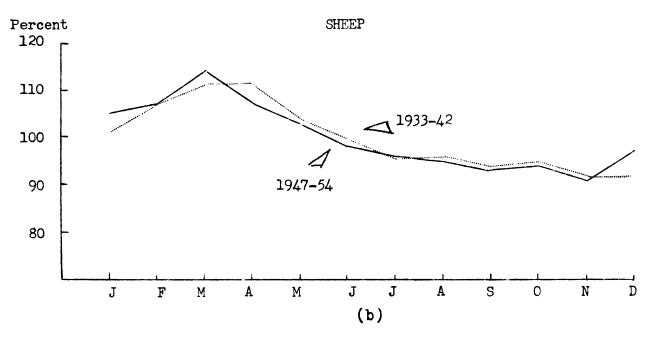


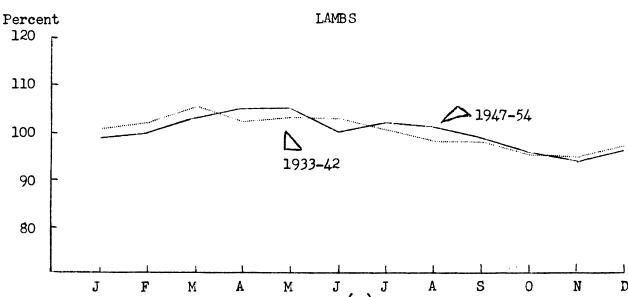




(c)
Figure 1. Seasonal prices of Hors, Veal Calves, and All Beef Cattle







(c)
Figure 2. Seasonal prices of Wool. Sheep, and Lambs, in Michigan,
nre-war (1933-42) and post-war (1947-54) periods compared.

The seasonal pattern for all slaughter cattle is somewhat complicated because it includes classes of cattle which have seasonal characteristics of their own.

Table III shows the seasonality of slaughter steer prices at Chicago. The peak for prime steers was the month of January following a high level period from September to January. The seasonal low was during May and June. The peak for choice steers was in September and the low was in May. The peak for good and standard steers was in July and the low was in February. The peak for utility steers was in May and the low was in December. The peak for feeder steers was in May and the low was in November. The peak for feeder steers was in May and the low was in December. See Table III.

The typical seasonal price movement for veal calves has a high in February. The price drops rapidly in March and levels off until prices rise again in January. See Table III. The post-war years (Figure 1 (b) showed another peak in September and October with an extreme low in June. This was due primarily to heavy spring and fall freshening of cattle. The expansion of the fluid milk program in recent years has caused dairymen to adjust or level off their calving program to maintain uniform milk production.

The seasonal movement of hog prices results from

the nature of hog production. The bulk of the pig crop was farrowed in the spring. The seasonal peak was in June following the marketings of the smaller fall pig crop. The seasonal low was in December when the larger spring pig crop arrives most heavily at the markets. The advancement of the peak from September during the pre-war years, (Figure 1 (a) is contributed to the farrowing of the fall pig crop earlier and to improved feeding practices. spreading of farrowings throughout the late summer and early winter has virtually eliminated the spring peak of February and March that existed in the pre-war years and the early This is shown in the most recent index post-war years. of seasonal prices. See Table III. Farmers who can economically adjust their building facilities, breeding programs. and feeding practices should plan to sell more of their hogs during the months of May, June, and July.

A cost study made by Harold Riley¹² in 1953 showed that it usually paid farmers to feed 200 pound hogs to heavier weights during the months of seasonal price rises especially during May, June, July and August, before the price break in September. The present recent index, Table III, would indicate farmers could profit by feeding to

Harold M. Riley, What Is the Most Profitable Weight to Market Hogs?, Extension Bulletin 321, Michigan State College, East Lansing, Michigan, August, 1953.

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heavier weights during the months of April, May, June, and July.

Lamb prices reach a peak in May and a low in November. See Table III.

Three types of lambs influence the lamb prices, spring lambs fattened largely on the ewe's milk, grass lambs that are marketed between August and November, and grain fed lambs marketed in January, February, and March. The higher price of lambs in the spring results from fewer market receipts and also from the fact that a large portion of the lambs carry full fleeces of high quality.

During the pre-war years the typical price movement for sheep showed a peak in March and a low in November. (See Figure 2 (b). In the post-war years the high occurred a month later. This may indicate farmers are shifting their marketing earlier to take advantage of the rising market price.

B. Price Cycles

Recurring movements of prices over a year in length is referred to as a price cycle. Cattle usually have a period of six to nine years of rising prices and a similar number of falling prices. The hog cycle is about five years in length with a two to three years of rising and two to three years of falling prices. The sheep cycle

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averages five to seven years from peak to peak or low to low. The length of time required for expansion of production depends upon the length of time required to build up livestock numbers. Hog numbers can be built up very rapidly whereas it takes much longer to build up cattle numbers.

The farmer should know what causes the lengthening and shortening of cycles. Drought can change the feed
situation and cause cattle to be marketed earlier, at lighter
weights and in greater numbers. A change in the corn supply
can result in shortening or extending the hog cycles. War
or depression can change the demand for meat and lard and
prolong the production and price cycle.

C. Short-time Price Fluctuations

Three factors are mainly responsible for shorttime price fluctuations. Variation in receipts at the
markets due to weather or farmer reaction to price change
have an effect on day-to-day prices. Temporary fluctuations
in consumer demand for the available supply will also affect
day-to-day prices. The consumer is influenced by weather
conditions, the price and availability of substitute products, and the amount of money available to spend for meat.
The livestock buyer may be the third factor in that he is
engaged in the process of discovery of price and supply-demand

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conditions. If the buyer finds he is buying too easily, he will lower his bid.

D. Summary

In a general statement it could be said that farmers should plan to market their livestock when the price is the highest. However, if all farmers planned to do this in any one month of the year based on the previous year's history the price would not be high due to the increased supply.

Many farmers can adjust their livestock feeding programs, improve their feeding efficiency and management, make some adjustments in their housing and breeding programs and still send their livestock to market when the price is stronger at little or no extra cost in production. Use of seasonal price information can aid in making the adjustment decisions.

Cost of production must be considered by each farmer before making changes. If he can produce his live-stock at lower costs in relationship to the market price, he may receive a greater net return by receiving a lower price. Some of the factors to lower production costs might be to secure feeder stock when the supply is greater and the price is lower; to farrow pigs in late spring or early

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summer; to reduce housing and labor costs; and, to use more economical feeding practices.

Farmers who have more than one livestock enterprise may shift emphasis from one species to another when the price-cycle favors doing so. Farmers who specialize can use price cycle information in determining when to expand or contract his volume of livestock production.

Farmers should observe short-time price fluctuations and attempt to market their livestock on a rising or peak market. The price fluctuations and price levels between markets should be observed so that the farmer can get the best price for the grade and class of livestock he has to sell. Sources of market price information were discussed in Chapter II.

V. HOW LIVESTOCK SHOULD BE MARKETED

Livestock should be marketed in a manner that would assure the farmer of receiving the greatest possible net returns. This involves selecting and breeding animals that will produce carcasses that the consumer demands, feeding the animals to the weight and grade to which the animal can be most profitably fed, and handling the animals in such a way to avoid loss of weight due to injury or excessive shrinkage. Some examples are presented to show how livestock should be marketed.

A. Meat Type Hogs

Fox, Wheeler, and Randell¹³ found in a study carried on at two cooperative meat packing plants that meat-type hogs are worth two to three dollars more per hundredweight than other hogs of the same weight. They found difficulties in detecting these values in the live animals and reflecting them back to the producers. In spite of this handicap, they found conclusive evidence that the most valuable hog for the producer is one that

¹³R. L. Fox, A. E. Wheeler, C. G. Randell, <u>Measuring Marketability of Meat-Type Hogs</u>, Bulletin C-152, Farm Credit Administration, U.S. Department of Agriculture, Washington, D.C., May, 1953.

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combines high carcass value with high dressing percentage, plus economy of production.

Miller and Turman¹⁴ explained two ways open to farmers for producing the meat-type hog. Limited feeding of the present day hogs gives the quickest results. This method requires more than six months for the hogs to reach the market so it is not the most practical. The better method is through selection and use of a meat-type boar on the present sow herd.

B. Feed Cattle and Lambs to the Optimum Weight for the Grade

At certain markets buyers desire certain weights of finished cattle and lambs. Farmers should set up their feeding programs to have their cattle and lambs finished properly at those weights. Farmers who have good and choice feeders usually should feed them to good and choice finished grades. Greater net returns can often be made by raising the grade; lower grade cattle may not warrant the extra feed. It is usually wise to maintain at least the potential grade that the animals have in their type and breeding.

¹⁴E. C. Miller and E. J. Turman, Shall We Produce A Meat-Type Hog? Economic and Marketing Information for Indiana Farmers, Lafayette, Indiana, November 27, 1953, page 1.

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It is questionable whether it pays to feed cull dairy cows after they are no longer of value to the dairy herd. Jim McCrum¹⁵ felt that the cost of feed over the feeding period necessary to raise the grade will not prove profitable under normal price conditions.

C. Veal Calves Versus Deacons

The decision of whether or not a farmer should produce and sell veal calves depends upon the comparison of the additional income from the sale of veal calves and the value of the excess milk plus the costs of raising the veal calves. A study made by Vincent and Roberts 16 led them to believe that in 1955 the expected returns from selling excess milk through veal are not enough to allow much for labor, housing, inconvenience and risk. Knowledge of the value of surplus milk at the market place as compared to its value when converted to veal is important for making a decision as to whether or not to sell deacon or veal calves.

D. Handling Livestock

The loss caused by injury and bruises in livestock

¹⁵ Jim McCrum, Former Cattle Salesman, Michigan Livestock Exchange, Battle Creek, Michigan, Oral communication.

¹⁶ Warren Vincent and Phil Roberts, <u>Feed Excess</u>
<u>Milk to Calves, Or Sell It?</u> Michigan Farm Economics, Michigan State University, East Lansing, Michigan, No. 146, March, 1955.

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hauling is a marketing cost. It was not considered as a marketing charge in this study. However, it is a serious loss to many individual farmers by receiving a lower price at the market.

Swift and Company 17 reported injuries and bruises amount to one to two per cent of the total cost of market-Their survey showed one out of ten hogs came to market with bruises with an average loss of \$1.80 per injured hog and one out of every fifteen cattle marketed was bruised with an average loss of \$6.00 per animal. It showed 62 per cent of the hogs were bruised by canes, whips, clubs, and by kicking and prodding, and 38 per cent by forks, nail punctures, and other causes. Crowding, bumping and rushing caused 66 per cent of the bruising to cattle and the other 34 per cent was caused by trampling, horns, whips, clubs, and other causes. Rough handling, lifting by the wool, inadequate loading and unloading facilities, and poor bedding caused 60 per cent of the injuries to sheep. other 40 per cent was contributed by crowding, trampling, and suffocating.

Ten ways to reduce losses: 18

1. Outlaw clubs and whips, use canvas slappers.

¹⁷ Anon. Easy Does It, Swift and Company, Agricultural Research Department, Chicago 9, Illinois, pages 1-6.

¹⁸ Ibid., pages 7-15.

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- 2. Eliminate protruding nails and broken boards in pens, yards, and chutes.
- 3. Remove machinery from the feedlot.
- 4. Remove horns.
- 5. Bed trucks properly, sand for cattle, straw for hogs and sheep. In hot weather use sand for hogs.
- 6. Check the trucks for nails, broken boards, narrow doors, low rods, low decks, and improper ventilation.
- 7. Load livestock carefully. Use loading chutes with steps.
- 8. Load livestock wisely. Don't crowd. Partition off extra space when loading few animals. Consider class of livestock--sex, size, and age, amount of fill, condition of truck, road conditions, distance to market and weather conditions.
- 9. Protect livestock from weather. Provide proper ventilation in hot weather and cover in cold weather.
- 10. Drive carefully and avoid sudden stops.

Careful handling, exercising patience, keeping the livestock quiet and unexcited will not only reduce bruising losses but will reduce the amount of shrinkage occurring between the farm and market.

E. Summary

This chapter was devoted to a few specific examples to point out how livestock should be marketed.

Care in handling all livestock will reduce losses and net returns.

Farmers should market in a manner that will assure

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them the greatest net returns. This starts from the time a farmer selects and breeds the animals until the offspring are sold.

It is most practical to grow meat-type hogs.

They will feed-out more rapidly and economically than holding back fat hogs by limited feeding to keep them lean.

Cattle and lambs should be fed to the optimum finish for their grade. The grades of cattle and lambs selected should be of the type that will be finished at the weight and grade best suited to the market at which they will be sold. Calves should be sold as deacons unless the farmer can realize more for his excess milk by producing veal.

VI. SHRINKAGE

Shrinkage is the loss in weight during transit between the point of origin and the destination of live-stock. There are two kinds of shrinkage, excretory and tissue.

Excretory shrinkage comes from excretions of feces and urine and is usually referred to as the elimination of fill. It makes up a large percentage of the total. These excretions have little or no commercial value, but may be a source of loss to individual farmers. Research studies have found that excretory shrinkage occurs at a rapid rate during the early part of the transit period and increases at a decreasing rate until the fill is eliminated.

Tissue shrinkage is loss in the body weight resulting in less dressed carcass weight. Tissue loss is a
real loss to farmers. Tissue loss has been found to begin
early in the transit period and to continue until the animal
reaches the plant for slaughter. Where long hauls and
delays in marketing occur, tissue loss may be reduced by
feed and water.

The amount of shrinkage in hauling animals is determined by many factors. Some of these are the kind

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of feeds fed on the farm, the amount of fill, the time the animals are in transit, the weight of the animals, the temperature, the method of hauling the livestock in transit, the type of transportation used, the method of handling during loading and unloading, the kind of handling animals receive at the market, and the class of livestock.

Shrinkage is an important cost of marketing to farmers. The cost is often not known to farmers and may not be given the recognition it should have when considering the price at the market and such marketing costs as transportation and commissions.

A review of some of the research studies applying to shrinkage is cited below to show where the author
secured information pertaining to shrinkage losses for
use in determining the cost of shrinkage as needed in this
problem.

A. Cattle

Studies have shown that the principal shrink takes place in the first 10 to 25 miles of any trip. The conclusion is that a long haul or short haul makes little difference in shipping cattle to market if fed at the market.

Mr. Fitzgerald 19 cited a study of 15 prime steers

¹⁹W. Lyle Fitzgerald, <u>Cattle Values in the Livestock Market</u>, Union Stockyards and Transit Co. of Chicago, 1954, page 9.

hauled 200 miles to the Union Stockyards at Chicago. The cattle started at a weight of 16,091 pounds. At the end of 65 miles they weighed 15,800 pounds. The load shrink was 290 pounds. At the stockyards, after an additional 135 miles, the load weighed 15,590 pounds. Only 210 additional pounds of shrink occurred and the distance was twice as great. The cattle were fed and watered at the yards. By the next day they had regained the 210 pound shrink which occurred during the last 135 miles of the trip. This amounted to a recovery of 15 pounds of shrinkage per steer.

In a conversation with Mr. Fitzgerald, he reported that records kept on 45,000 head of all grades of cattle received at the Stockyards showed an average recovery of 16 pounds of shrink lost in transit, when the cattle were fed and watered on arrival.

A study made by Abbenhaus and Penney²⁰ in 1951 also shows that shrinkage is larger during the first part of the trip. See Table IV.

These figures indicate that almost one half of the shrinkage took place during the first 25 miles of the 200 mile haul. About two thirds of the shrinkage took

²⁰ Gerald R. Abbenhaus and Roland C. Penney, Shrink Characteristics of Fat Cattle, Chicago Union Stock-yard and Transit Company, Chicago, Illinois, page 7.

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Per cent of Shrink for 60 Fat Cattle Between Each Check Weighing During a (Total Animal Weight Equals 100 Per cent) 200 Mile Truck Haul. Table IV.

Weight Classes	Number of head in each olass	Average Weight	Miles Tra 0-25 (Per cent)	s Traveled Between .25 25-50 5(cent)(Per cent)(Per	een Weigh 50-100 (Per cent	d Between Weighings 25-50 50-100 100-200 cent)(Per cent)(Per cent)	Total Per cent
Group Average	09	1122	1.8	.7	Φ.	9.	3.9
Under 1000 pounds	11	954	1.5	.7	6.	Φ.	3.9
1000-1099 pounds	10	1056	2.1	6.	ω.	·	4.1
1100-1199 pounds	24	1139	1.8	Φ.	Φ.	7.	4.1
Over 1200 pounds	15	1263	1.9	٠.	.7	.5	3.6

"Shrink Characteristics of Fat Cattle Transported by Trucks," page 7, Gerald R. Abbenhaus and Roland C. Penney, Chicago Union Stockyards and Transit Company, Chicago, Illinois. Source:

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place by the end of 50 miles, or one fourth of the distance.

"Dry" cows, no longer milking and sold as feeder or slaughter animals were found to shrink an average of 6.4 per cent without feed and 5.9 per cent with feed after arrival. The shrinkage ranged from 3.5 per cent for 4 hours in the yard to 9.5 per cent for 24 hours in the yard. The average transit time was 6.3 hours. This shrinkage was compared to other classes of cattle as follows: "When shrinkage is computed on the difference between loading and sales weight, cows accumulated the highest shrinkage with an average of 6.4 per cent, next were feeder steers, 4.4 per cent, calves, 4.3 per cent, and feeder heifers, 3.5 per cent."

Donald Stark²³ gave the author information on veal calf shrinkage that he secured when he was General Livestock Agent for the New York Central Railroad. When his study was made, the shrinkage of veal calves averaged 5 per cent from farm to market. Veal calves do not usually take feed and water. The 5 per cent shrink was based on arrival one day and being sold the next.

²¹Glen R. Purnell, Economic Analysis of Cattle Shrinkage. Unpublished thesis, Montana State College, November, 1953, pages 33-36.

^{22 &}lt;u>Ibid.</u>, page 42.

²³Donald Stark, Extension Specialist in Agricultural Economics, Michigan State University, East Lansing, Michigan.

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Table V was developed from estimates by the author to show the relationship of the per cent of shrinkage to length of haul from the farm to market. The purpose of this information was to secure comparable data on the amount of shrinkage between species and classes of livestock hauled to market for use in this thesis to determine a marketing charge for shrinkage.

The shrinkage of choice steers not fed on arrival at the market was estimated to average 3.0 per cent of the farm weight between 50 and 100 miles, 2.0 per cent or two-thirds of the total shrinkage between 25 and 50 miles, and 1.5 per cent or one-half of the total shrinkage between 0 and 25 miles. The shrinkage on cows was estimated to be 4.5 per cent of the farm weight for distances between 50 and 100 miles, 3.0 per cent for distances between 25 and 50 miles and 2.3 per cent between 0 and 25 miles on the same basis. The shrinkage on veal calves was estimated to be 5.0 per cent between 50 and 100 miles, 3.3 per cent between 25 and 50 miles, and 2.3 per cent between 0 and 25 miles.

Because of a lack of shrink information, it was estimated that approximately one-half of the shrinkage would be regained when the livestock was fed upon arrival at the market.

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Per cent of Shrink for Choice Steers, Hogs, Lambs, Veal Calves, and "Dry" Cows Related to Length of Haul. Table V.

U.S. No. 1 Hogs	Not Fed	1.5	2.0	3.0
	EI 6	1.2	1.5	2.3
Choice Lambs	Not Fed	2.5	3.3	5.0
CD La	ы Ж Б	1.3	1.7	2.5
Veal Calves	Not Fed	2.5	3.3	5.0
"Dry" Cows	Not Fed	2.3	3.0	4.5
	ы Же Ф	1.2	1.5	2.3
Choice Steers	Not Fed	1.5	2.0	3.0
	e P P	Φ.	1.0	1.5
Miles Traveled		0-25	26-50	51-100

Source: Data presented in this study.

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B. Hogs

The length of haul has a definite effect on the amount of shrinkage of hogs. The rate of shrinkage is greatest in the first few miles of the trip. Wiley and \cos^{24} showed this in their farm-to-market study of 38,303 hogs.

Table VI shows the results of this study of shrinkage for hogs fed and not fed at the market as it relates to length of haul. The shrinkage averaged 1.06 per cent of the farm weight at the end of the first 5 miles. Thus 40 per cent of the shrinkage took place during the first 5 miles. For hauls 66 to 75 miles, shrinkage averaged 2.76 per cent of the farm weight of hogs not fed at the market.

For hauls up to about 45 miles the data indicate that it is not economical to feed at market if the hogs are to be weighed to the buyer soon after arrival. These conditions can usually be met for hauls to local markets and for some nearby hauls to the larger posted markets. But for nearby hauls to the larger posted markets, when hogs arrive several hours before they can be weighed to

James R. Wiley and Clifton Cox, Economics and Marketing Information for Indiana Farmers, Purdue University, Lafayette, Indiana, February 26, 1955, page 1.

the buyer, and for the hauls 40 miles and longer it seems to be sound practice to feed hogs at market.²⁵

In this study the author used estimates of 3.0 per cent shrink for hauls between 50 and 100 miles, 2.0 per cent shrink between 25 and 50 miles, and 1.5 per cent shrink between 0 and 25 miles. For the hogs fed upon arrival at the market, the estimates were based on the assumption that one-fourth of the shrinkage would be recovered. See Table V.

Table VI. Relationship of the Length of Haul to Shrinkage of Hogs. 1,132 Lots - 38,303 Hogs

Miles Hauled	Shrinkage		
	Not Fed At Market	Fed At Market	
	Per cent	Per cent	
0-5 6-15 16-25 26-35 36-45 46-55 56-65 66-75 76-85 86-95	1.06 1.12 1.39 1.75 2.06 2.50 2.68 2.76	* 1.03 1.24 1.51 1.79 1.99 2.03 2.08 2.14 2.16	

^{*} Sufficient data not available.

Source: "Economics and Marketing Information for Indiana Farmers," James R. Wiley and Clifton Cox, Purdue University, Lafayette, Indiana, February 26, 1955.

²⁵ Ibid., page 2.

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C. Sheep

Research studies show that shrinkage in sheep takes place at higher rates than for either cattle or hogs. A study made by the Bureau of Agricultural Economics, 26

U.S.D.A., based on data from 19 packing plants located in the Middle West and in the East for the years 1929 and 1930, show that for distances of less than 100 miles, the shrinkage of 6,300,000 sheep averaged 8.9 per cent of the weight shipped. There was little change in shrinkage between 100 miles and 450 miles indicating that feed, water, and rest replaced the loss in weight after the first 100 miles.

In a study made in the North Central Region²⁷ of six shipments of lambs between Montana ranches and Chicago, Illinois, shrinkage averages ranged from 5.1 per cent to 7.5 per cent. Differences were attributed to method of handling at the ranches or origin and the time of weaning. There was an additional trail shrink of 1.99 per cent to 2.5 per cent to the loading points. This study does not differ greatly from the early study if we assume that most of, or all of, the shrink occurred during the first

²⁶A. A. Dowell and K. Bjorka, <u>Livestock Market-ing</u>, McGraw-Hill Book Company, Inc., London and New York, 1941, page 243.

²⁷v. John Brensike, Marketing Feeder Cattle and Sheep in the North Central Region, Station Bulletin 410, North Central Regional Publication 25, University of Nebraska, College of Agriculture, Lincoln, May, 1952, pages 52-53.

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100 miles and that feed, water, and rest replaced the loss in weight after the first 100 miles.

Kammlade²⁸ stated "The percentage of shrink on lambs shipped under good conditions a distance of 250 miles will approximate 5 per cent."

In this thesis the author used estimates of a 5 per cent shrink for hauls between 50 and 100 miles, a 3.3 per cent shrink between 25 and 50 miles, and a 2.5 per cent shrink between 0 and 25 miles. For the lambs fed on arrival at market the estimates considered that one-half of the shrinkage would be recovered. See Table V.

D. Summary

Two kinds of shrinkage occur when marketing livestock. Excretory shrinkage comes from elimination of feces and urine. Tissue shrinkage is loss in body weight resulting in less dressed carcass weight.

Some of the factors affecting the amount of shrinkage that occurs when moving livestock are the kind of feeds
fed, the amount of fill, the length of time in transit,
method of hauling, the type of transportation used, the

²⁸wm. G. Kammlade, Sheep Science, J. B. Lippin-cott Company, Chicago, Philadelphia, New York, 1947, page 243.

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method of handling during loading and unloading, the kind of handling at the market, the temperature, the weight of the animal, and the class of livestock.

The research on shrinkage was reviewed. There was a decided lack of uniformity of information due to the many factors influencing shrink. Very little information was available within the 5-100 mile range, especially regarding cattle and sheep.

Shrinkage is an important cost to farmers. The author believes that it should be recognized as one of the costs of marketing.

By use of the information available and some assumptions, shrinkage losses were determined on a percentage of live weight basis for short hauls in the 0-25, 26-50, and the 51-100 mile ranges. Research data show the average shrinkage of 1000 pound steers to be about five per cent at 100 miles. About half of the shrinkage occurred in the first 25 miles. Veal calves averaged five per cent from farm to market. Dry cows were about twice that of calves. Lambs averaged five per cent at 250 miles. Half of the lamb shrinkage was recovered on long hauls when fed at the market. Hogs averaged about 3.0 per cent shrinkage at the end of 100 miles, 1.5 per cent at the end of 50 miles and 1.2 per cent at the end of 25 miles. When fed at the market they recovered about one-fourth of the loss.

The author assumed that veal calves, dry cows, and lambs would take one-half of their shrink in the first 25 miles. He also assumed that two-thirds of the total shrinkage would occur in the next 25 miles and the remaining one-third during the next 50 miles. It was also assumed that steers and dry cows would recover one-half of the shrinkage if fed at the market.

VII. MARKETING CHARGES

This chapter will be devoted to the direct charges or costs involved in the marketing of livestock. The author will point out which of the charges apply to the six markets considered in this study and explain how the charges were determined and used in this study.

A. Transportation

Livestock of the area is generally hauled to market by truck. The author found that about 15 per cent of the farmers hauled their own livestock to market, another 5 to 10 per cent hauled some of their livestock and 75 per cent to 80 per cent hired all of their livestock hauled to market.

Many truckers are available in the area. The trucking charges are predominately on a hundredweight basis. The truckers will haul livestock by the load, by the head, or by the hundredweight, whichever the farmer prefers. Trucking costs to the farmer figured out about the same for a particular lot of livestock to be hauled a certain distance regardless of the trucker hired. Truckers feel they must have a minimum of \$4.00 per farm stop in picking

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up a mixed load. Individual veal calves, hogs, and lambs are hauled for \$1.50 or \$2.00, depending upon the distance to market and the ease of loading. Rates per hundredweight vary from 25 cents to 50 cents depending upon the distance from the market. Some truckers will take a full load at one farm to local markets for \$10.00 and \$15.00 and to Detroit for \$30.00. Full semi-trailer loads are quoted from \$35.00 to \$65.00.

All truckers hauling for hire must be licensed through the Michigan Public Service Commission. Most truckers carry transit insurance on animals carried from the time they are loaded until 48 hours after they are unloaded. This protects the truckers and the farmers against loss due to injury or death of livestock other than by natural causes. Some truckers were found not to carry this insurance. The commission firms at the Detroit Stockyards make a charge to all consignors for transit insurance. This was a decision of the Detroit Stockyards Company, the truckers and the commission firms.

Table VII was prepared from information received after talking with farmers and truckers. The table shows the most common charges used by truckers for various species of livestock, considering the distance to market, size of the load, and the minimum charge for a farm stop pick-up.

Table VII. Truck Transportation Charges for Hauling Individual, Medium and Large Lots of Cattle, Calves, Hogs, and Sheep to Markets of Various Distances

Class of	Distance	Charges			
Livestock	(Miles)	Single Animal	. 2-10 Head		11 Head & Above
water the country of		(Per Head)	(Per Head)	(Minimum Per Farm Stop	<u> (Cwt</u>)
Cattle	0-25	3.00	2.50-1.00	5.00	•25
Ħ	26- 50	4.00	2.50-1.00	5.00	•25
11	51-75	4.00	2.50-1.00	5.00	• 25
11	76-100	(.50 _{cwt)}	2.50-1.00	5.00	• 30
Calves	0-25	2.00	1.50-1.00	3.00	.30
11	26-50	2.00	2.00-1.00	4.00	•30
11	51-75	2.00	2.00-1.00	4.00	• 30
Ħ	76-100	2.00	2.00-1.00	4.00	• 30
Hog s	0-25	2.00	1.0050	3.00	.30
n	26-50	2.00	1.0050	4.00	•30
n	51-75	2.00	1.0050	4.00	•30
n	76-100	2.00	1.0050	4.00	.30
Sheep	0-25	2.00	1.0050	3.00	• 35
n	26-50	2.00	1.0050	4.00	•35
n	51-75	2.00	1.0050	4.00	• 35
n	76-100	2.00	1.0050	4.00	• 35

Source of Data: Interviews with truckers at the markets.

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B. Yardage

The livestock auctions do not charge for yardage in this area. The Detroit Stockyards Company charges a yardage rate on a per head basis. The current rates were made effective December 1, 1959.

Bulls (900 pounds or over)	\$1.50
Cattle	• 95
Calves (300 pounds or under)	•46
Hogs	• 35
Sheep	•20
Horses and Mules	1.25

C. Feed

Livestock sold at auctions, to packers, local dealers, and others, except for the Detroit Stockyards, are not usually fed. The farmer may order them to be fed or not fed at the Detroit Stockyards. The commission company assigned to handle the livestock will use its own judgment regarding feeding the livestock if the farmer does not give instructions.

The current schedule of feed charges which includes handling charges were made effective September 2, 1958, as follows:

Hay	\$2.00 per cwt	•
Corn	2.23 per bu.	
Straw	1.35 per cwt	

Feed charges used in this problem were computed at fifteen pounds of hay for each steer and cow, four pounds

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of corn for each hog, and three pounds of corn for each lamb. No feed charge was assessed against the veal calves.

D. Weighing

No markets in this area have a weighing charge for weighing livestock to be sold at the market. Weighing service is absorbed in other charges.

E. Insurance

All markets reported having insurance to protect owners of livestock against loss due to fire, windstorm, cyclone, and tornado. Lugbill Producers, Inc., charged five cents per each head of livestock sold. The Detroit Stockyards Company charged one cent for each two head of cattle, each three head of calves or hogs, and each five head of sheep or lambs, or fraction of these numbers.

Coldwater Livestock Commission Company and Adrian Livestock Sales reported insurance as included in their service charge. Hillsdale Auction Company reported insurance was included in the sales commission.

All livestock consigned for sale at the Detroit Stockyards Company is covered by transit insurance. This charge is deducted from the consignor's sale by the commission firms and forwarded to the insurance company.

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The schedule of charges is as follows:

Number	Cattle and Calves	Hogs	Sheep and Lambs
0-50	\$.15	\$.12	\$.08
51 -7 5	.18	.14	.10
76-100	.21	.16	.11
101-125	• 24	.18	.12
126-175	•27	•20	.13
176-250	• 30	.22	.15
251-350	• 33	.26	.17

Some truckers reported that they carried no transit insurance. No transit insurance charge was made by the Auction Markets or by the truckers delivering livestock to the auction markets.

F. National Livestock and Meat Board

A collection is made at the Detroit Stockyards for the National Livestock and Meat Board. The charge is a two-third cent for each hog or calf, two-fifth cent for each sheep or lamb, and two cent for each head of cattle. The collection is entirely voluntary and will be refunded if the shipper requests it be done. Livestock auction markets in some areas of the United States are cooperating with farmers and the National Livestock and Meat Board to make collections. None were doing so in this area.

G. Commissions

Livestock buyers who bought directly from farmers

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did not charge farmer commissions. Agents selling livestock for the farmers did charge for the service of selling. Following are the commission charges made by the markets studied in this problem.

Detroit Stockyards

Cattle:

	One head only Two head only Three or more		0 0 for the pair 0 each
Calves:	(300 pounds or	les s)	
	One head only Two head only Three or more		0 0 for the pair 5 each
Hogs:			
	One head only Two head only Three or more		0 4 for the pair 7 each
Sheep and	Lambs:		
	One head only First 50 head Next 50 head Next 50 head Each head over	•3	5 8 each 3 each 8 each 3 each

Lugbill Producers, Inc., Archbold, Ohio

Cattle, Calves, Sheep, and Lambs:

2 1/2 per cent of the gross sales of \$1,000 or less plus one per cent of sales above \$1,000.

Hogs:

2 1/2 per cent of the gross sales of \$500 or less plus one per cent of sales above \$500.

There was a fifty cents minimum charge per sale.

Coldwater Livestock Commission

Cattle:

\$2.25 each for first ten head 1.50 each for all above ten head

Calves:

\$1.25 each for first eight head 1.00 each for all over eight head

Hogs:

\$.40 per head

Sheep and Lambs:

\$.50 each in a lot of 39 head or less.45 each in a lot of 40 or more

Adrian Livestock Sales

Cattle:

\$2.00 each for first five head
1.50 each for second five head
1.00 each for all above ten head

Calves:

\$1.00 per head

Hogs:

\$.35 per head

Sheep and Lambs:

\$.25 per head

Hillsdale Auction Company

The commission was five per cent of the total gross sales with no minimum or maximum.

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H. Service Charges

Two auctions had a service charge to cover insurance and other services such as yarding, sorting, tagging, weighing, incidental to the handling of livestock at the sales. Coldwater Livestock Commission charged three-fourths of one per cent of the gross sales. Adrian Livestock Sales charged one per cent of the gross sale on a single animal and one-half of one per cent on the gross sales of two animals or more.

I. Summary

There was no uniform charge for hauling livestock to market. Truckers charge by the load, by the head, and by the hundredweight. Individual animals are assessed charges from \$1.50 to \$5.00 each, depending upon the class of livestock and the distance from the market. Charges for truck-load lots are usually figured by weight with a range of thirty-five cents to fifty cents per hundred-weight, depending upon the distance from the market. Partial load charges range from fifty cents to two dollars a head to provide \$3.00 to \$5.00 for each stop in making up a load. Table VII was prepared to show the charges most often used by truckers.

There was no uniformity in the selling and the

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service charges at the markets. Lugbill Producers, Inc., and Hillsdale Auction Company based all charges as a percentage of gross sales. Detroit Stockyards Company, Adrian Livestock Sales, and Coldwater Livestock Commission based their charges on a per head basis. Lower per head charges were established for some or all classes of livestock as the consignment size increased at each market. Per head charges on cattle changed for the second animal at Detroit, for the sixth and eleventh at Adrian, and for the eleventh at Coldwater. Per head charges on calves changed for the second at Detroit and for the ninth at Coldwater. Per head charges on hogs changed for the second at Detroit. Per head charges on sheep and lambs changed for the second, fifty-first, one hundred first, and the one hundred fifty-first head at Detroit and for the fortieth at Coldwater.

Adrian Livestock Sales and Coldwater Livestock Commission had a percentage charge on the gross sales to cover costs incidental to the handling of livestock but not included in the selling commission.

Detroit Stockyards Company was the only market to provide for the feeding of livestock. It was also the only one to make collections for the National Livestock and Meat Board and for transit insurance. At the other markets some livestock is not protected for loss during transit.

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VIII. NET RETURNS TO FARMERS

Prices at alternative markets and marketing charges must be considered in arriving at the net returns a farmer might expect to receive for his livestock. The amount of shrinkage, as discussed earlier in this paper, is very difficult to determine. Likewise, the marketing costs due to shrinkage are difficult to determine.

The author believes that farmers can use a budget analysis to determine which market they should use. This budget analysis would test the markets and avoid disappointments and financial losses. It is much cheaper to make mistakes on paper.

Hypothetical examples, using prices and marketing charges as they existed at the time of this study and under conditions that the author found in Hillsdale and Lenawee Counties, may be illustrated as follows. First, however, the reader should keep in mind these comments.

(1) Truckers were discretionary, and often arbitrary, in determining their transportation charges. This has been discussed. (2) The prices used in these examples are those quoted by the U.S.D.A. Livestock Market News Service for the Detroit Stockyards. The prices at the other markets were given the author by managers of the markets. In some

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cases the author believes these prices are high averages based on the personal observations he made at two of the auctions. (3) The best information available to the author was used to determine the cost due to shrinkage. There are many factors which have been discussed that could increase or decrease this cost in the examples presented.

In this problem all livestock except veal calves was considered as fed upon arrival at the Detroit Stock-yards to recover part of the shrinkage loss. The livestock taken to the other markets were not fed. See Table VI.

These examples were limited to large and small producers marketing five classes of livestock. The large producers were assumed to sell in lots of twenty choice steers, two cutter cows, three choice veal calves, thirty No. 1 hogs, or twenty choice lambs. The small producers were assumed to sell in lots of five choice steers, one cutter cow, one choice veal calf, six No. 1 hogs, or six choice lambs.

The problem required that the distance to the markets be considered in order to compute transportation and shrinkage costs. The producers of these examples were selected near Hillsdale and Adrian, the center of each county included in the study.

The author prepared Table VIII to show comparative distances to the six markets selected. The local

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buyer represents dealers, order buyers, local packers, butchers, or locker plant operators within a radius of 5 miles of the producers.

Finally it was necessary to establish a price that farmers would receive when the livestock was sold. In computing gross returns, the prices used were the average prices being paid by buyers at the Detroit Stockyards as quoted by the United States Market News Service at Detroit for the week of May 16-22, 1960, and the prices reported by auction managers and local dealers for the week of May 16-22, 1960. They are summarized in Table IX.

Table VIII. Transportation Distance to Market Livestock for Two Producers Living Near Hillsdale and Adrian.

	Miles t	o Market
Market	Producer from Adrian	Producer from Hillsdale
Detroit Stockyards	70	95
Lugbill Producers, Inc.	40	40
Coldwater Livestock Com. Auction	55	25
Adrian Livestock Sales	5	35
Hillsdale Auction Company	35	5
Local Buyer	5	5

Table IX. Price Per Hundredweight for Five Classes of Livestock at Six Markets, Week of May 16-22, 1960.

Cla	ss of			Market			
Liv	estock	Detroit	Archbold	Coldwater	Adrian	Hillsdale	Local
Ch.	Steers	27.50	24.50	26.00	25.00	24.00	24.00
Cut	ters	16.50	17.50	17.00	17.00	15.00	15.00
Ch.	Veal	32.50	35.00	37.00	35.00	31.00	31.00
Ch.	Lambs	24.00	23.00	24.50	24.00	22.00	22.00
No.	1 Hogs	17.40	17.25	17.50	17.25	17.00	16.75

A. Net Returns from Choice Steers for Farmers in the Vicinity of Adrian

Detroit Stockyards. The average price for choice steers at the Detroit Stockyards was found to be \$27.50 per hundred-weight. Assuming the average shrinkage is 1.5 per cent, Table VI, and the distance is 70 miles, Table VIII, the total marketing charges for a lot of 20 choice steers would be \$186.15 or 93 cents per hundredweight. See Table X. The next returns would be \$5,313.85 or \$26.57 per hundred-weight. See Table XI.

For the small producer selling a lot of five choice steers, the marketing charges would be \$46.66 or 93 cents per hundredweight. The net returns would be \$1,328.34 or \$26.57 per hundredweight.

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Marketing Charges for 1000 Pound Choice Steers from Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960* TABLE X.

	Market	DETROIT	TIO	ARCHBOLD	3OLD	COLDWATER	TER	ADRIAN	IAN	HILL	HILLSDALE	LOCAL BUYER	SUYER
CHARGES	No. of Head	20	2	20	2	20	7	20	5	20	5	20	70
Transportation	n ₁	50.00	12.50	50.00	12.50	50.00	12.50	50.00	12.50	50.00	12.50	50.00	12.50
Shrinkage	Lbs.	300 82.50	75 20.63	98.00	24.50	156.00	39.00	300	18.75	00°96	24.00	300 72.00	18.00
Yardage		19.00	4.75										
Feed		00*9	1.50										
Insurance		.25	.18	1,00	.25								
NLS and MB ²		ott•	01.				. 1						
Commission		28.00	7.00	00.40	27.25	37.50	11.25	27.50	10.00	240.00	00.09		
Service Charge	Φ.					39.00	9.75	25,00	6.25				
Total Charges		186.15	99*91	213.00	05.49	282.50	72.50	177.50	47.50	386.00	96.50	122.00	30.50
Charge Per Cwt.	·	.93	.93	1.07	1.29	1.41	1.45	•89	-95	1.93	1.93	19*	19.
Differential Per Cwt. Above or Below Detroit	Per Cwt. W Detroit	0	0	ήτ. <i>†</i>	f .36	8 [†] 7	4 .52	ηθ	4 .02	7 1.00	≠ 1.00	32	32

1. No charge was made for injury or death loss.
2. National Livestock and Meat Board.

* Source: Data presented in this marketing study.

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TABLE XI. Net Returns from Marketing 1000 Pound Choice Steers for Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960*

************	to Consess to State		-	-	-		-
UYER		5	1200.00	30.50	1169.50	23.39	-3.21
LOCAL BUYER	24.00	20	5200.00 1300.00 5000.00 1250.00 4800.00 1200.00 4800.00 1200.00	96.50 122.00	05.6911 00.8794 05.5011	23.39	-3.21
SDALE		5	1200.00	96.50	1103.50	22.07	-4.53
. HILLSDALE	24.00	20	1,800.00	386.00	4917.50 1227.50 4822.50 1202.50 4414.00	22.07	-4.53
LAN		5	1250,00	47.50	1202.50	24.05	-2.51
ADRIAN	25,00	20	5000,00	72.50 177.50	4822.50	24.11	-2°†6
COLDWATER		5	1300.00	72.50	1227.50	24.55	-2.01
COLD	26.00	20	5200.00	282,50	4917.50	24.59	-2.01
OLD		5	1225.00	64.50	1160.50	23.21	-3.35
ARCHBOLD	24.50	20	5500.00 1375.00 4900.00 1225.00	186.15 46.66 213.00	5313.85 1328.34 4687.00 1160.50	23.43	-3.17
ROIT		5	1375,00	99*91	1328.34	26.57	0
DETROIT	27.50	20	5500,00	186.15	5313.85	26.57	0
Market Place	Price Per Cwt.	No. of Head	Gross Returns	Marketing Charges	Net Returns	Net Returns Per Cwt.	Differential Per Cwt. Above

* Source: Data presented in this marketing study.

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Lugbill Producers, Inc. The average price for choice steers was found to be \$24.50 per hundredweight. Assuming an average shrinkage of 2.0 per cent, Table VI, and the trucking distance to be 40 miles, Table VIII, the total marketing charges for a lot of 20 would be \$213.00 or \$1.07 per hundredweight. See Table X. The net returns would be \$4,687.00 or \$23.43 per hundredweight. See Table XI.

For the producer of five choice steers, the marketing charges would be \$64.50 or \$1.29 per hundredweight. See Table X. The net returns would be \$1,160.50 or \$23.21 per hundredweight. See Table XI.

Compared to the Detroit Stockyards, the marketing charges for the large producer would be 14 cents per hundredweight greater and the net returns would be \$3.17 per hundredweight less. For the small producer the marketing charges would be 36 cents per hundredweight greater and the net returns \$3.35 per hundredweight less.

Coldwater Livestock Commission Company. The average price for choice steers was found to be \$26.00 per hundredweight. Assuming an average shrinkage of 3.0 per cent, Table VI, and the trucking distance 55 miles, Table VIII, the total marketing charges for a lot of 20 choice steers would be \$282.50 or \$1.41 per hundredweight. See Table X. The net returns would be \$4,917.05 or \$24.59 per hundredweight. See Table XI.

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For the producer of five choice steers the marketing charges would be \$72.50 or \$1.45 per hundredweight. See Table X. The net returns would be \$1,227.50 or \$24.55 per hundredweight. See Table XI.

Compared to the Detroit Stockyards, the marketing charges for the large producer would be 48 cents per hundredweight greater and the net returns would be \$2.01 per hundredweight less. For the small producer, the marketing charges would be 52 cents per hundredweight greater and the net returns \$2.01 per hundredweight less.

Adrian Livestock Sales. The average price for choice steers was found to be \$25.00 per hundredweight. Assuming an average shrinkage of 1.5 per cent, Table VI, and a trucking distance of 5 miles, Table VIII, the total marketing charges for the lot of 20 choice steers would be \$177.50 or 89 cents per hundredweight. See Table X. The net returns would be \$4,828.50 or \$24.11 per hundredweight.

For the producer of five choice steers the marketing charges would be \$47.50 or 95 cents per hundredweight.

See Table X. The net returns would be \$1,202.50 or \$24.05

per hundredweight. See Table XI.

Compared to the Detroit Stockyards, the marketing charges for the large producer would be four cents per hundredweight less and the net returns \$2.49 per hundred-weight less. For the small producer, the marketing charges

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would be two cents per hundredweight more and the net returns \$2.51 per hundredweight less.

Hillsdale Auction Company. The average price for choice steers was estimated at \$24.00 per hundredweight although none were sold through this market. Assuming an average shrinkage of 2.0 per cent, Table VI and a trucking distance of 35 miles, Table VIII, the total marketing charges for a lot of 20 choice steers would be \$386.00 or \$1.93 per hundredweight. See Table X. The net returns would be \$4,414.00 or \$22.07 per hundredweight. See Table XI.

For the producer of five choice steers, the marketing charges would be \$96.50 or \$1.93 per hundredweight. See Table X. The net returns would be \$1,103.50 or \$22.07 per hundredweight. See Table XI.

Compared to the Detroit Stockyards, the marketing charges for both the large and the small producer would be \$1.00 per hundredweight greater and the net returns \$4.53 per hundredweight less.

Local Buyer. The average price for choice steers was estimated to be \$24.00 per hundredweight. Assuming an average shrinkage of 1.5 per cent, Table VI, and a trucking distance of 5 miles, Table VIII, the marketing charges for a lot of 20 choice steers would be \$122.00 or 61 cents per hundredweight. See Table X. The net returns would be

\$4,678.00 or \$23.39 per hundredweight. See Table XI.

For the producer of five choice steers the marketing charges would be \$30.50 or 61 cents per hundredweight. See Table X. The net returns would be \$4,678.00 or \$23.39 per hundredweight. The marketing charges were all based on weight.

Compared to the Detroit Stockyards, the marketing charges for the large and the small producer would be 32 cents per hundredweight less and the net returns would be \$3.21 per hundredweight less.

Summary. The marketing charges were greater per hundredweight for small lots as compared to large lots at Archbold,
Coldwater, and Adrian. They were the same per hundredweight
at Detroit, Hillsdale and the local buyer market. At these
latter markets the charges were made on a per head, or a
per hundredweight, or a per cent of gross sales, or combinations of these methods. The differences in the National
Livestock and Meat Board and the insurance charges at Detroit
were too small to affect the total charges and returns.
See Table X.

The net returns for the large and small producers were greater at the Detroit Stockyards. See Table XI.

B. Net Returns from Choice Steers from the Vicinity of Hillsdale

The analysis of marketing charges and the net

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returns from steers marketed from the vicinity of Hillsdale was made in the same way as from the vicinity of Adrian.

Assumptions regarding the amount of shrinkage of choice steers fed and not fed are those estimated and reproduced in Table VI. Assumptions regarding the distance to the various markets are those reproduced in Table VIII. The estimates of price at the markets are the same as those used in the previous section.

Marketing charges were least when selling to the local buyer. See Table XII. The charges were 37 cents per hundredweight less than those at the Detroit Stockyards for the large and small producers. The marketing charges were the greatest at the Hillsdale, \$1.81 per hundredweight for both large and small producers. The charges were 83 cents per hundredweight above those at the Detroit Stock—yards for both the large and the small producers.

The marketing charges were the same per hundredweight for the large and the small producer at the Detroit,
Hillsdale, and the local buyer markets. The marketing
charges were 22 cents more per hundredweight for the small
lot at Archbold than for the large lots. The difference
was four cents at Coldwater and seven cents at Adrian.
See Table XII.

At the assumed prices prevailing at the alternative markets, both the large and small producer received

producer would receive \$4.33 per hundredweight less at
Hillsdale, \$3.13 less at the local market, \$3.09 less at
Archbold, \$2.53 less at Adrian, and \$1.54 less at Coldwater.
The small producer would receive \$4.33 per hundredweight
less at Hillsdale, \$3.31 less at Archbold, \$3.13 less at
the local market and \$2.60 less at Adrian, and \$1.58 less
at Coldwater. See Table XIII.

C. Net Returns from Cutter Cows from the Vicinity of Adrian

It cost 95 cents per hundredweight for large producers to market cutter cows at Detroit. Compared to Detroit, the charges were 50 cents more at Hillsdale, 42 cents more at Coldwater and 23 cents more at Archbold, all because of greater shrinkage and higher commissions. The cost was the same at Adrian. The local market cost was 35 cents less due to less shrinkage, less transportation, and no selling charges.

The cost of marketing cutter cows for the small producer was \$1.20 at Detroit. It costs 40 cents more at Hillsdale, 32 cents more at Coldwater, and 17 cents more at Archbold due to greater shrinkage and higher commissions. The cost was 22 cents less at Adrian mostly due to a lower trucking cost. A lower trucking cost, less shrinkage and no commission resulted in a 45 cent lower cost at the local

77

Marketing Charges for 1000 Pound Choice Steers from Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960* TABLE XII.

	Market	DETROIT	TIO	ARCHBOLD	OLD	COLDWATER	TER	ADRIAN	IAN	HILL	HILLSDALE	LOCAL BUYER	SUYER
CHARGES	No. of Head	20	5	20	5	20	2	20	5	20	5	20	72
Transportation	7	00.09	15.00	50.00	12.50	50.00	12.50	50.00	12.50	50.00	12,50	50.00	12.50
Shrinkage	Lbs.	300 82.50	75 20.63	98.00	100 24.50	300	19.50	100.00	100 25.00	300	18.00	300	18.00
Yardage		19.00	4.75										
Feed		9.00	1.50										
Insurance		•25	.18	1,00	.25								
NLS and MB ²		04.	01.										
Commission		28.00	7.00	00.49	27.25	37.50	11.25	27.50	10.00	240.00	00.09		
Service Charge						39.00	9.75	25.00	6.25				7
Total Charges		196.15	49.16	213.00	64.50	204.50	53.00	202.50	53.75	362.00	90.50	122.00	30.50
Charge Per Cwt.		86.	.98	1.07	1.29	1.02	1.06	10.1	1.98	1,81	1.81	19.	19.
Differential Per Cwt. Above or Below Detroit	er Cwt. Detroit	0	0	60. ≠	f .31	4.00	90. ≠	£ .03	o1. ≯	£ .83	f .83	37	37

No charge was made for injury or death loss.
 National Livestock and Meat Board.

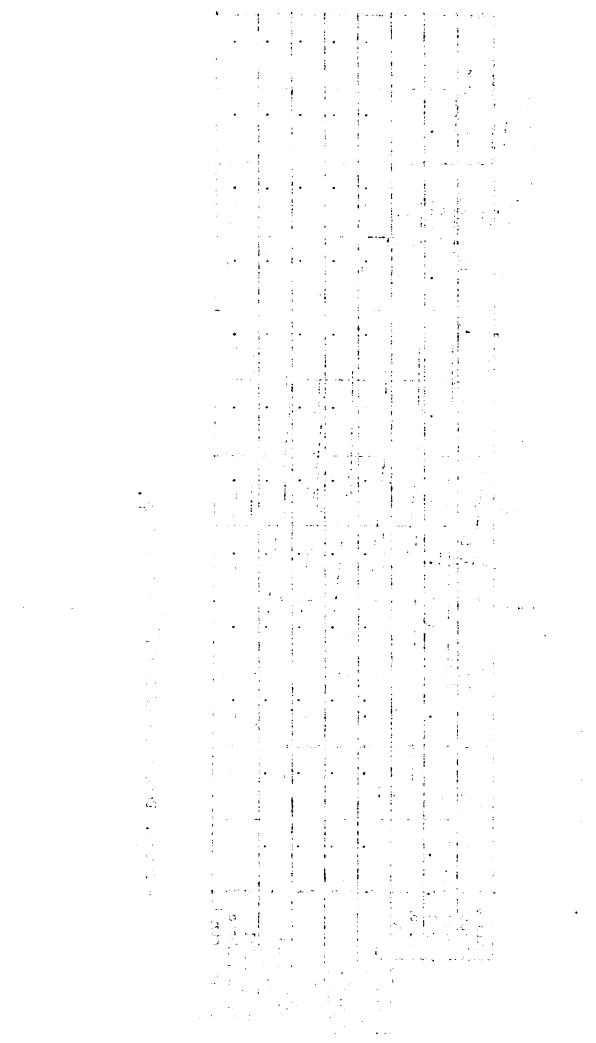
* Source: Data presented in this marketing study.

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TABLE XIII. Net Returns from Marketing 1000 Pound Choice Steers for Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960*

Market												
Place	DETE	DETROIT	ARCHBOLD	OLD	COLDWATER	ATER	ADRIAN	AN	. HILLSDALE	DALE	LOCAL BUYER	UYER
Price Per Cwt.	27.50		24.50		26,00		25.00		24.00		24.00	
No. of Head	20	2	20	5	20	2	20	70	20	70	50	70
	5500.00	5500.00 1375.00 4900.00 1225.00	4900.00	1225.00	5200.00	5200.00 1300.00 5000.00 1250.00 4800.00 1200.00 4800.00 1200.00	5000.00	1250.00	1,800,00	1200.00	1,800.00	1200.00
Marketing Charges	196.15		49.16 213.00	64.50	204.50	53.00	202.50	53.75	362.00	90.50	90.50 122.00	30.50
	5303.85	5303.85 1325.84 4687.00 1160.50	00.7894	1160.50	4995.50	4995.50 1247.00 4797.50 1196.25 4438.00 1109.50 4678.00 1169.50	4797.50	1196.25	1438.00	1109.50	η678.00	1169.50
Net Returns Per Cwt.	26.52	26.52	23.43	23.21	24.98	16.42	23.99	23.92	22.19	22.19	23.39	23.39
Differential Per Cwt. Above or Below Detroit	0	0	-3.09	-3.31	-1.54	-1.58	-2.53	-2.60	-4.33	-4-33	-3.13	-3.13

* Source: Data presented in this marketing study.



market. See Table XIV.

The net returns for the large producer was \$15.55

per hundredweight at Detroit. The higher price was the

primary reason for receiving 73 cents more at Archbold,

52 cents more at Adrian and 8 cents more at Coldwater.

Net returns were less by \$1.15 at the local market, and

\$2.00 less at Hillsdale because the price was lower.

The small producer's net returns per hundredweight at Detroit was \$15.30. For the same reasons presented for the large producers, the net returns were \$1.00 more at Archbold, 72 cents more at Adrian, 18 cents more at Coldwater, \$1.05 less at the local market and \$1.90 less at Hillsdale. See Table XV.

D. Net Returns from Cutter Cows from the Vicinity of Hillsdale

The large producer's marketing cost was 95 cents per hundredweight at Detroit. It was 40 cents more at Hillsdale because of a higher selling cost. The cost was 35 cents more at Adrian and 27 cents more at Archbold because of a higher selling cost and a greater shrinkage. The cost was about the same at Coldwater. It was 35 cents lower at the local market where there was no commission charge, yardage, or insurance.

It cost 20 cents more per hundredweight for the small producer at Hillsdale due mostly to the higher commission. Greater shrinkage accounted for most of the 25 cent

80

TABLE XIV. Marketing Charges for 1000 Pound Cutter Cows from Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960*

Ma	Market Place	DET	DETROIT	ARCHBOLD	3OLD	COLDWATER	TER	ADRIAN	IAN	HILL	HILLSDALE	LOCAL BUYER	UYER
CHARGES He	No. of Head	2	1	2	1	2	7	2	1	2	1	2	-
Transportation		00.9	5.00	5.00	1.00	5.00	00-17	5.00	3.00	2.00	1,000	8	3.00
Shrinkage	Lbs.	46 7.59	23 3.80	60 10.50	30 5 . 25	90 15.30	7.65	46 7.82	23 3.91	00°6	30 4•50	06 ° 9	23 μ•50
Yardage		1.90	<i>-</i> 95										
Feed		09°	•30										
Insurance		.16	•16	01،	\$00								
NLS and MB		т ю•	. 02										
Commission		2,80	1.70	8.75	1.38	1.50	2.25	00•↑	2.00	15.00	7.50		
Service Charge						2.55	1.28	1.70	.85				
Total Charges		19.09	11.93	24.35	13.68	27.35	15.18	18.52	9.16	29.00	16.00	n.%	7.50
Charge Per Cwt.		.95	1.20	1.22	1.37	1.37	1.52	.93	•98	145	1.60	9.	.75
Differential Per Cwt. Above or Below Detroit	Cwt. etroit	0	0	6.23	£.17	टग•∱	4.32	-*05	22	7.50	6,4μ0	35	- ₄ 45

No charge was made for injury or death loss.
 National Livestock and Meat Board.

* Source: Data presented in this marketing study.

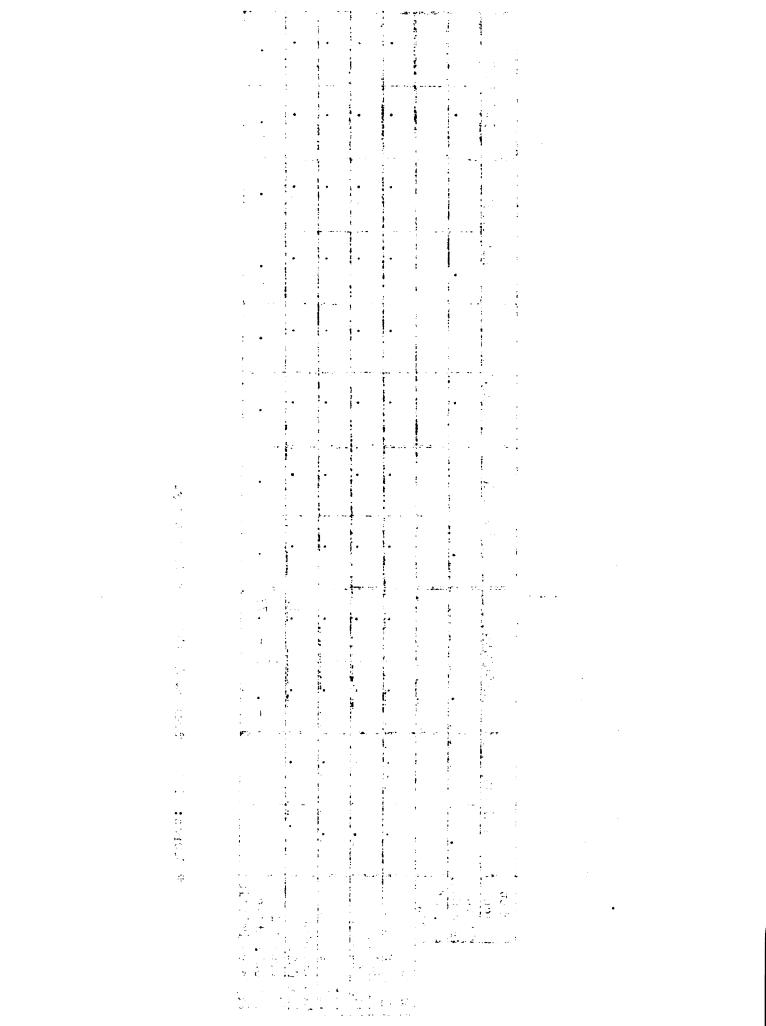
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TABLE XV. Net Returns from Marketing 1000 Pound Cutter Cows for Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960*

Market Place	. DETROIT	ROIT	ARCHBOLD	30LD	COLDIA	COLDWATER	ADRIAN	AN	HILLSDALE	SDAT.F.	LOCAL BUYER	NYER
Price Per Cwt. 16.50	16.50		17.50		17.00		17.00		15.00		15.00	
No. of Head	2	1	2	1	2	1	2	1	2	1	8	1
Gross Returns	330.00	330.00 165.00 350.00 175.00	350.00	175.00	340,00	340.00 170.00 340.00	340.00	170,00		300.00 150.00	300,00 150,00 m	150.00
Marketing Charges	19.09	19.09	24.35 13.68	13,68	27.35	15.18	18.52	9.76		16.00	11.90	7.50
Net Returns	16.018	310.91 153.07 325.65 161.32	325.65	161.32	312.65	312.65 154.82	321.48	160.24	271.00	134.00	288.10	14
Net Returns Per Cwt.	15.55	15.55 15.30	16.28	16.13	15.63	15.48	16.07	16.02	13.55	13.40	04.41	14.25
Differential Per Cwt. Above or Below Detroit	0	0	£ .73	£3.93	80° 7	¥ •18	f .52	f .72	-2.00	-1.90	-1.15	-1.05

* Source: Data presented in this marketing study.



greater cost at Adrian. It cost 16 cents more at Archbold due mostly to the higher commissions. Service charges and commission at Coldwater increased the cost over Detroit by 17 cents. The cost was 45 cents lower at the local market because there was no selling charge and less trucking costs. See Table XVI.

The net returns for the large producer were \$15.55 per hundredweight at Detroit. The higher prices received at Archbold, Coldwater, and Adrian were primarily responsible for 73 cents, 46 cents, and 15 cents greater net returns. The net returns were \$1.15 and \$1.90 less respectively at the local buyer market and at Hillsdale due to the lower price.

The small producer received \$15.30 net returns at Detroit. They were 73 cents more at Archbold, 66 cents more at Coldwater and 25 cents more at Adrian, mostly due to receiving a higher price at these markets. Lower prices were mostly responsible for receiving \$1.05 less at the local buyer market and \$1.70 less at Hillsdale. See Table XVII.

E. Net Returns from Choice Veal Calves in the Vicinity of Adrian

The large producer marketing choice veal calves had a marketing cost of \$2.86 per hundredweight at Detroit. It was 86 cents more at Hillsdale and 53 cents more at

Marketing Charges for 1000 Pound Cutter Cows from Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960* TABLE XVI.

Market	DET	DETROIT	ARCHBOLD	BOLD	COLDWATER	A TER	ADRIAN	IAN	HILL	HILLSDALE	LOCAL BUYER	BUYER
CHARGES No. of	2	1	2	1	2	1	2	1	2	1	2	1
Transportation	00*9	5.00	5.00	7.00	5.00	3.00	2.00	7.00	5.00	3.00	2.00	3.00
Ibs. Shrinkage	146 7.59	3.80	60 10.50	30 5 . 25	146 7.82	23 3.91	60	30,7.65	06.90	23 3.45	06.90	23 4.50
Yardage	1.90	.95										
Feed	09.	•30										
Insurance	91.	•16	010	•05					,			
2 NLS and 2	†0°	•05										
Commission	2,80	1.70	8.75	4.38	4.50	2.25	1,000	2,00	15.00	7.50		
Service Charge					2.55	1.28	1.70	.85				
Total Charges	19.09	11.93	24.35	13.68	19.87	10.44	26.00	14.50	26.90	13.95	11.90	7.50
Charge Per Cwt.	.95	1.20	1,22	1.37	66.	1.04	1,30	1.45	1.35	1,40	09.	•75
Differential Per Cwt. Above or Below Detroit	0	0	f.27	4.17	4.04	4.16	4.35	4.25	4.40	£.20	35	45

1. No charge was made for injury or death loss. 2. National Livestock and Meat Board.

* Source: Data presented in this marketing study.

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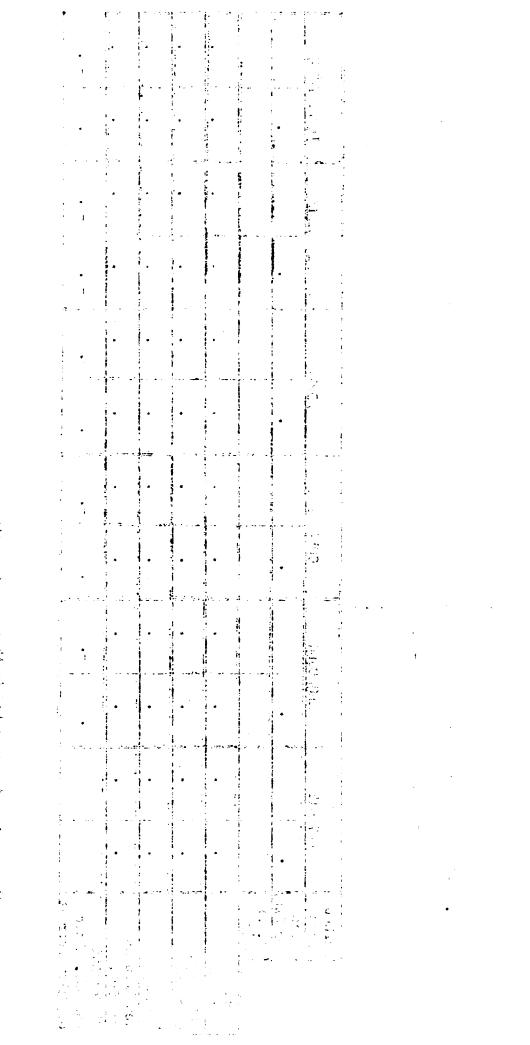
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TABLE XVII. Net Returns from Marketing 1000 Pound Cutter Cows for Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960*

-	-		8	4	-		-
UYER		1	150.00	7.50	142.50	14.25	-1.05
LOCAL BUYER	15,00	2	300,00	11.90	288.10	14.40	-1.15
SDALE		П	150.00	13.95	136.05	13.60	-1.70
. HILLSDALE	15.00	2	300.00	26.90	273.10	13.65	-1.90
TAN		1	170.00	14.50	155.50	15.55	4.25
ADRIAN	17.00	2	340.00	26.00	314.00 155.50	15.70	4.15
COLDWATER		1	170.00	10.44	320.13 159.56	15.96	7.66
COLD	17.00	2	340.00	19.87	320.13	16.01	4.46
SOLD		1	175.00	13.68	161.32	16.13	4.73
ARCHBOLD	17.50	2	350,00	24.35	325.65	16.28	4.73
TIOE		1	165.00	11.93	153.07	15,30	
DETROIT	16.50	2	330.00	19.09	310.91	15.55	
Market Place	Price Per Cwt.	No. of Head	Gross Returns	Marketing Charges	Net Returns	Net Returns Per Cwt.	Differential Per Cwt. Above or Below Detroit

* Source: Data presented in this marketing study.



Coldwater, due to higher commissions charges. It was 15 cents less at Archbold because of less shrinkage. A lower transportation cost and less shrinkage lowered the cost by 71 cents at Adrian and \$1.52 at the local market.

Marketing costs per hundredweight for the small producer at Detroit was \$3.35. It was 72 cents more at Hillsdale and 39 cents more at Coldwater because of higher commission charges. Less shrinkage reduced the cost by 29 cents at Archbold and 50 cents at Adrian. The cost was \$1.48 less at the local market. See Table XVIII.

The net returns were \$29.64 per hundredweight for the large producer. A higher price brought \$3.97 more at Coldwater. A higher price and a lower marketing cost brought \$3.21 more at Adrian and \$2.65 more at Archbold.

Net returns were \$2.36 less at Hillsdale due to higher marketing costs and the lower price. Returns were about the same at the local market.

at Detroit. They were \$4.11 more at Coldwater due to the higher price. Lower marketing costs and a higher price brought \$3.00 more at Adrian and \$2.79 more at Archbold.

Net returns were \$2.22 less at Hillsdale due to higher marketing costs and a lower price. It was about the same at the local market. See Table XIX.

TABLE XVIII. Marketing Charges for 190 Pound Choice Veal Calves from Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960*

			<u> </u>		86							
BUYER	1	2.00	1.55							3.55	1.87	8ħ°1−
LOCAL BUYER	3	3.8	79•η 15							7.65	1.34	-1.52
HILLSDALE	Ţ	2.00	9 2.79					2.95		η2•2	4.07	f.72
HILL	3	4.00	27 8.37					8.84		21.21	3.72	4. 86
LAN	1	2.00	51.15					1,00	.67	5,42	2.85	50
ADRIAN	3	3.00	L5 5.25					3.00	1.00	12.25	2.15	г 7
TER	-	2.00	3.33					1.25	•53	1.1	3.74	4.39
COLDWATER	٣	4.00	27 9 . 99					3.75	1.58	19,32	3.39	4.5 3
OLD	-	2.00	6 2.10			50 °		1.66		5.81	3.06	29
ARCHBOLD	3	4.00	18 6.30			•15		4.99		क्ष.देट	2.71	15
DETROIT	7	2.00	9 2.93	•46		71،	10.	•80		6.37	3.35	0
DET	9	4.00	27 8.78	1.38		.17	•05	1.95		16.30	2.86	0
Market Place	CHARGES No. of		Lbs. Shrinkage	Yardage	d.	Insurance	NIS and ${ m NB}^2$	Commission	Service Churge	Total Charges	Charge Per Cwt.	Differential Per Cwt. Above or Below Detroit
	CH	Tran	Shri	Yard	Feed	Insu	NIS	Comm	Serv	Tota	Char	Diff

No charge was made for injury or death loss.
 National Livestock and Meat Board.

* Source: Data presented in this marketing study.

TABLE XIX. Net Returns from Marketing 190 Pound Choice Veal Calves from Large and Small Producers in the Vicinity of Adrian , Week of May 16-22, 1960*

In	Market	DET	DETROIT	ARCHBOLD	SOLD	COLD	COLDWATER	ADRIAN	AN	. HILLSDALE	SDALE	LOCAL BUYER	UYER
-	Price Per Cwt 32.50	32.50		35.00		37.00		35.00		31.00		31,00	
	No. of Head	3	1	3	1	3	1	3	1	~	1	3	1
Gross Returns		185.25	185.25 61.75	199.50	05.99	210.90 70.30	70.30	199.50 66.50	05.99	176.70	58.90	176.70	58.90
Marketing		16.30	6.37	15.44	5.81	19.32	7.16	12.25	5.42	21.21	7.74	7.65	3.55
Net. Returns		168.95	55.38	184.06	69.09	191.58	63.14	187.25 61.08	61.08	155.49	51.16	169.05	55.35
Net Returns Per Cwt.	ns	29.64	29.15	32.29	31.94	33.61	33.26	32.85 32.15	32.15	27.28	26.93	29.66	29.13
Differential Per Cwt. Above	Above	0	0	42.65	f2.79	f3.97	4.11	43.21	43.00	-2.36	-2.22	£ .02	02
or Below Detroit	Detroit					-							

* Source: Data presented in this marketing study.

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F. Net Returns from Marketing Choice Veal Calves in the Vicinity of Hillsdale

The cost of marketing choice veal calves by the large producer was \$2.86 per hundredweight at Detroit. It was about the same at Hillsdale; it was 15 cents less at Archbold, 35 cents less at Adrian and 42 cents less at Coldwater due to less shrinkage. Because there was less shrinkage and transportation charges and no commission charge it was \$1.52 less at the local market.

The marketing cost to the small producer was \$3.35 per hundredweight at Detroit. A higher commission charge made it seven cents more at Hillsdale. It was 31 cents less at Adrian, 29 cents less at Archbold and 39 cents less at Coldwater due to less shrinkage. Because there was no commission charge, less shrinkage and a lower transportation cost, it was \$1.52 less at the local market. See Table XX.

The net returns for the large producer at Detroit was \$29.64 per hundredweight. It was about the same at the local market. It was \$4.92 more at Coldwater, \$2.85 more at Adrian and \$2.65 more at Archbold due to a higher market price and a lower marketing charge. It was \$1.53 less at Hillsdale due to a lower market price.

The small producer received net returns of \$29.15 per hundredweight at Detroit. It was about the same at the local market. Due to a higher market price and a lower

marketing charge it was \$4.89 more at Coldwater, \$2.81 more at Adrian and \$2.79 more at Archbold. Net returns were \$1.57 less at Hillsdale due to a lower market price. See Table XXI.

G. Net Returns from Choice Lambs from the Vicinity of Adrian

It cost \$1.73 per hundredweight for the large producer to market choice lambs at Detroit. The cost was 75 cents more at Coldwater and 45 cents more at Hillsdale because of greater shrinkage and a higher commission charge. The cost was 38 cents less at Adrian due to a lower commission charge, no yardage, insurance, or feed charge. The cost at the local market was 83 cents less than at Detroit due to less shrinkage and no charges for yardage, insurance, and commission. The cost was the same at Archbold. Yardage and feed charges at Detroit balanced out the greater shrinkage and higher commission at Archbold.

It cost \$2.13 per hundredweight for the small producer to market at Detroit. The cost was 58 cents more at Coldwater, 44 cents more at Hillsdale, 55 cents less at Adrian, \$1.00 less at the local market and the same at Archbold for the same reasons affecting the larger producer's costs. The charges for the small producer were higher per hundredweight due to the higher transportation cost per lamb marketed. See Table XXII.

TABLE XX. Marketing Charges for 190 Pound Choice Veal Calves from Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960*

	Market	DET	DETROIT	ARCHBOLD	BOLD	COLDWATER	TER	ADRIAN	IAN	HILL	HILLSDALE	LOCAL BUYER	BUYER
CHARGES	No. of Head	6	1	3	1	3	1	8	7	8	7	3	٦
Transportation	1,1	14.00	2.00	7*00	2.00	3.00	2.00	4.00	2.00	3.00	2.00	3.00	2,00
Shrinkage	Tps.	8.78	2.93	18 6.30	6 2.10	15	5	18 6.30	6 2.10	15 4.65	5 1.55	15 4•65	5 1.55
Yardage		1.38	946										
Feed													
Insurance		.17	.17	.15	•05								
NLS and MB ²		•05	10.										
Commission		1.95	.80	4.99	1,66	3.75	1,25	3.00	1,00	8.84	2.95		3
Service Charge	ø		1000			1.58	•53	1.00	29.				
Total Charges		16,30	6.37	15.44	5.81	13,88	5.63	14.30	5.77	16.49	6.50	7.65	3.55
Charge Per Cwt.	45	2,86	3,35	2.71	3.06	2.44	2.96	2.51	3.04	2,89	3.42	1.34	1.87
Differential Per Cwt. Above or Below Detroit	Per Cwt.	0	0	15	29	42	-•39	35	31	£.03	f.07	-1.52	-1.48

No charge was made for injury or death loss. National Livestock and Meat Board. 44

* Source: Data presented in this marketing study.

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TABLE XXI. Net Returns from Marketing 190 Pound Choice Veal Calves from Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960*

	The state of the s				-	The same of the sa						
Market Place		DETROIT	CTOCHBOLD	3OLD	COLDWATER	ATER	ADRIAN	AN	HILSDALE	DALE	LOCAL BUYER	UYER
Price Per Cwt	32.50		35.00		37.00		35.00		31*00		31.00	
No. of Head	د ع	τ	3	τ	3	τ	3	1	3	1	3	1
Gross Returns	185.25	185.25 61.75	199.50	05*99	210,90	70.30	199.50	05*99	176.70	58.90	176.70	58.90
Marketing Charges	16,30	6.37	गग•51	5,81	13.88	2.63	06•ग्र	5.77	6η •9 τ	6.50	29°2	3.55
Net Returns	168.95 55.38	55.38	184.06	69*09	196.72	८९•५९	185.20	60.73	160.21	52 मै0	169.05 55.35	55•35
Net Returns Per Cwt.	29.64	29.64 29.15	32.29	176*18	34•56	34.04	6ħ•2E	31.96	28.11	27.58	59°62	29.13
Differential Per Cwt. Above	0	0	42.65	61°2f	A4.92	68•11√	£5*85	/2.81	-1-53	-1.57	7°° ≠	02
TOLDETOM DEFECT	7 2	1							A	B		

* Source: Data presented in this marketing study.

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The net returns for the large producer were \$22.27 at Detroit. They were 38 cents more at Adrian because of the lower marketing costs. Net returns were 25 cents less at Coldwater due to the higher marketing charges. They were lower at Archbold by \$1.01 due to a lower market price. The local market brought \$1.17 less because the lower market price was greater than the lower marketing charges. The net returns were \$2.45 less at Hillsdale due to higher marketing costs and a lower market price.

The small producer received \$21.87 per hundred-weight at Detroit. Net returns were 55 cents less at Adrian, eight cents less at Coldwater, \$1.00 lower at Archbold and at the local market, and \$2.44 less at Hillsdale. See Table XXIII.

H. Net Returns from Choice Lambs from the Vicinity of Hillsdale

The cost of marketing choice lambs for the large producer at Detroit was \$1.73 per hundredweight. It was about the same at Archbold and Coldwater. It was 19 cents less at Adrian due to a lower commission and 83 cents less at the local market because there were no selling charges. It was 27 cents more at Adrian due to the higher commission.

For the small producer at Detroit and at Archbold the cost was \$2.13 per hundredweight. Due to lower transportation and commission charges it was 19 cents less at

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Marketing Charges for 90 Pound Choice Lambs from Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960* TABLE XXII.

CHARGES No. of 20 ransportation Lbs. 10.80 hrinkage 10.80 ardage 10.00		ARCH	ARCHBOLD	COLDWATER	4 TER	ADRIAN	IAN	HILL	HILLSDALE	LOCAL BUYER	SUYER
	9	20	9	20	9	20	9	20	9	20	9
Lbs.	00-11 0	6.30	4.00	6.30	η•00	30	3.15	6•30	%•١	6.30	3.15
	o 3.24	13.66	ή•0 0	90 22.05	27 6.62	08°01 10°80	135 3 . 24	13.07	3.92	8.%	2.97
	0 1.20										
Feed 2.23	3 .67										
Insurance .12	2 .10	1.00	•30								
NLS and MB ² .08	8 .03										
Commission 7.60	0 2.28	10.35	3.11	10.00	3.00	2,00	1.50	19,80	5.94		
Service Charge				3.31	-99	2.16	. 65				
Total Charges	3 11.52	31.31	11.50	99•गग	19•17	24.26	8.54	39.17	13.86	16.20	6.12
Charge Per Cwt. 1.73	3 2.13	1.74	2.13	2.48	2.71	1.35	1.58	2.18	2.57	•90	1.13
Differential Per Cwt. Above or Below Detroit	0 0	10.4	0	4.15	4.58	-*38	55	54.4	₩.+	83	-1,00

No charge was made for injury or death loss.
 National Livestock and Meat Board.

* Source: Data presented in this marketing study.

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TABLE XXIII. Net Returns from Marketing 90 Pound Choice Lambs from Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960*

	4											
Market Place	DETROIT	DIT	ARCHBOLD	OLD	COLDWATER	ATER	ADRIAN	AN	HILSDALE	DALE	LOCAL BUYER	UYER
Price Per Cwt.	24∙00		23.00		24.50		24.00		22.00		22.00	
No. of Head	20	9	50	9	20	9	20	9	20	9	20	9
Gross Returns	432.00	129.60	00°ग्रा	124.20	00° ፒሳሳ	132,30	132.00	129.60	396.00	118.80	396.00	118.80
Marketing Charges	31.13	11.52	16•16	11.50	99•गग	19•गा	52•गट	8.54	39.17	13.86	16.20	6.12
Net Returns	1400.87	90*811	382.69	112.70	ग ६•९६६	69*111	ካሪ • 20ካ	121.06	356.83	16.401	379.80	112.68
Net Returns Per Cwt.	22.27	21.87	27.26	20.87	25°05	21°12	22.65	22.42	19.82	19•43	21.10	20.87
Differential Per Cwt. Above	0	0	το • τ-	-1.00	25	80° -	8E° 7	£ •55	5ħ°2-	ካተ 2-	-1.17	-1.00
OF BELOW DELFOIL				A			A			-		

* Source: Data presented in this marketing study.

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Coldwater. A lower commission charge resulted in 20 cents less at Adrian. It cost \$1.00 less at the local market because there were no selling charges. It was 10 cents more at Hillsdale due to the higher commission. See Table XXIV.

The net returns for the large producer at Detroit were \$22.27. It was 53 cents more at Coldwater and 19 cents more at Adrian because the price per hundredweight was higher. Due mostly to a lower price, the net returns were \$1.01 less at Archbold and \$1.17 less at the local market. At Hillsdale a combination of lower price and higher marketing costs netted \$2.27 less.

For the small producer net returns were \$21.87.

They were 69 cents more at Coldwater because of a higher price and 20 cents more at Adrian because of lower marketing costs. They were \$1.00 lower at Archbold and at the local market and \$2.10 lower at Hillsdale due to lower market prices. See Table XXV.

I. Net Returns from No. 1 Hogs Weighing 200 Pounds for Farmers in the Vicinity of Adrian

The marketing cost was \$1.19 per hundredweight for the large producer at Detroit. It was 30 cents more at Hillsdale due to the higher commission charge. It was about the same at Coldwater. Due to less shrinkage the cost was 37 cents lower at Adrian and 22 cents lower at Archbold.

TABLE XXIV. Marketing Charges for 90 Pound Choice Lambs from Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960*

No. of 20 6 Head 6.30 4.00 1 6.30 4.00 1 10.80 3.24 1 10.80 3.24 1 1.20 1 1.20 2 1.2 1.20 2 1.2 1.20 3 1.1 11.52 3 1.1 11.52		Market	DETE	DETROIT	ARCHBOLD	BOLD	COLDWATER	ATER	ADRIAN	IAN	HILLS	HILLSDALE	LOCAL BUYER	BUYER
on Lbs. 45 4.00 6.30 4.00 55 55 135 55 10.80 3.24 10.80 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.2	ARGES	No. of Head	20	9	20	9	20	9	20	9	83	9	20	9
ikage Lbs. 45 135 55 10.80 3.24 1 10.80 3.24 1 10.00 1.20 1 10.00 1.20 1 10.00 1.20 1 10.00 1.20 1 10.00 1.20 1 10.00 1.00 1 10.00 1.00 1 10.00 1.00 1 10.00 1.00 1 10.00 1.00 1 10.00 1 1 10.00 1 1 10.00 1 1 10.00 1 1 10.00 1 1 10.00 1 1 10.00 1 1 10.00 1 1 10.00 1 1 10.00 1 1 10.00 1 1 10.00 1 1 10.00 1 1 10.00 1	sportation	n ₁	6.30	7.00	6.30	1.00	6.30	3.15	6.30	14.00	6.30	3.15	6.30	3.15
1,000 1,20 2,23 .67 .12 .10 .08 .03 7,60 2,28 17,60 2,28 11,52 .71	inkage	Lbs.	7	135 3.24	594 13.66	178 4.09	45 11.03	3.31	14.26	4.27	9.90	2,97	9.90	2,97
2.23 .67 .12 .10 .08 .03 7.60 2.28 7.60 2.28 1.13 11.52	lage		1,00	1.20										
.12 .10 .08 .03 7.60 2.28 T.60 2.28 11.52 2.11	-		2.23	29.										
.08 .03 7.60 2.28 1.65 2.28 1.13 11.52	rance		.12	.10	1.00	•30						=		
7.60 2.28]	and MB ²		90•	•03										ñ
31.13 11.52	nission		7.60	2,28	10.35	3.11	10,00	3.00	5.00	1.50	19.80	5.94	7.7	
31.13 11.52	rice Charg	Φ					3.31	- 99	2.16	•65		-2.30	777	2
1 73 9 13	1 Charges		31.13	11.52	31.31	11.50	30.64	10.45	27.72	10,42	36.00	12.06	16.20	6.12
TOTOS COT	Charge Per Cwt.	ţ.	1.73	2.13	1.74	2,13	1.70	1.94	1,54	1,93	2,00	2.23	06	1.13
Differential Per Cwt. Above or Below Detroit $0 \mid f.01$	erential re or Belo	Per Cwt.		0	10.7	0	03	19	19	20	4.27	4.10	83	-1.00

1. No charge was made for injury or death loss.
2. National Livestock and Meat Board.

* Source: Data presented in this marketing study.

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TABLE XXV. Net Returns from Marketing 90 Pound Choice Lambs from Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960*

				-	The state of the last of the l							
Market Place	DETE	DETROIT	ARCHBOLD.	OID	COLDMATER	ATER	ADRIAN	AN	HILSDALE	DALE	LOCAL BUYER	UYER
Price Per Cwt	24.00		23.00		24.50		24.00		22,00		22,00	
No. of Head	20	9	50	. 9	20	9	20	9	20	, 9	20	9
Gross Returns	1,32.00	129.60	00•וֹנדלו	124.20	00° एए।	132,30	1,32,00	129.60	396.00	118,80	396.00	08.811
Marketing Charges	31.13	11.52	31.31	11.50	30.64	5 †*0 T	27.72	10.42	36.00	12,06	16.20	6.12
Net Returns	1,000,87	90*811	382.69	112.70	9E*017	121.85	92*11017	91.611	360.00	106.7և	379.80	112.68
Net Returns Per Cwt.	22.27	21.87	21.26	20.87	22.80	22.56	9ंग•टट	22.07	20,00	19.77	21.10	20.87
Differential Per Cwt. Above	0	0	TO*1-	-1-00	£5° }	69° 7	6T° /	7 ·20	-2°57	-2.10	LT*T-	-1.00
or Below Detroit									+			

* Source: Data presented in this marketing study.

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It was 64 cents less at the local market because of less shrinkage, and no commission charge.

The small producer had a cost of \$1.24 per hundred-weight at Detroit. It was about the same at Coldwater. Due to the higher commission charge it was 28 cents more at Hills-dale. Due to less shrinkage it was 42 cents less at Adrian and 10 cents less at Archbold. The local market was 69 cents lower. See Table XXVI.

The net returns were \$16.21 per hundredweight at Detroit for the large producer. They were about the same at the local market. They were 22 cents more at Adrian and seven cents more at Archbold due to lower marketing charges. A combination of a higher market price and lower marketing charges netted 13 cents more at Coldwater. Net returns were 70 cents less at Hillsdale because the market price was lower and the marketing charges were higher.

The small producer had net returns of \$16.16 per hundredweight at Detroit. Due to the lower marketing charges they were 27 cents more at Adrian and four cents more at the local market. A higher market price and the lower marketing charges netted 15 cents more at Coldwater. They were five cents less at Archbold due to a lower market price and 68 cents less at Hillsdale because of both a lower market price and the higher marketing charges. See Table XXVII.

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TABLEMAI. Marketing Charges for 200 Pound No. 1 Hogs from Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960*

Market Place	DET	DETROIT	ARCHE	BOLD	COLDWATER	TER	ADRIAN	LAN	HILLS	HILLSDALE	LOCAL BUYER	VYER
CHARGES No. of	30	9	30	9	30	9	30	9	30	9	30	9
Transportation 1	18.00	1.00	18.00	14.00	18,00	14.00	18.00	3.60	18.00	4.00	18.00	3.60
Shrinkage	24.01	14.87	20.70	יור•יו	31.50	6.30	15.53	3.10	20,40	90°†7	15.08	3.8
Yardage	10.50	2,10										
Feed	9ंग•ग	-89										
Insurance	.22	ग г•	1.50	06•								
NLS and MB	•20	ηα•										
Commission	01•ग	2.82	17.85	5.18	12,00	2.40	10.50	2.10	51.00	10,20		
Service Charge					7.88	1.58	5.18	1.04				
Total Charges	6 † •τL	98-गा	58.05	13.62	66.38	14.28	49.21	ղ8•6	89。40	18.28	33.08	6.62
Charge Per Cwt.	1.19	1.24	.97	1.14	1.16	1.19	•85	.82	1.49	1.52	.55	•55
Differential Per Cwt. Above or Below Detroit	0	0	25	10	03	05	37	टग॰-	6.3 0	£.28	₩	69*-

1. No charge was made for injury or death loss. 2. National Livestock and Meat Board.

* Source: Data presented in this marketing study.

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TABLE XXVII. Not Returns from Marketing 200 Pound No. 1 Hogs from Large and Small Producers in the Vicinity of Adrian, Week of May 16-22, 1960*

Varket Place	DETROIT	WIT	ARCHBOLD	OLD	COLDMATER	ATER	ADRIAN	AN	- HILLSDALE	DALE	LOCAL BUYER	UYER
Price Per Cwt 17.40	17.40		17.25		17.50		17.25		17.00		16.75	
No. of Head	30	9	30	9	30	9	30	9	30	9	30	9
Gross Returns	1044.00 208.80	208.80	1035.00	207.00	1050,00	210,00	1035.00 207.00	207.00	1020.00 204.00	20µ.00	1005,00	201.00
Marketing Charges	१1.19	71.49 14.86	50°85	58.05 13.62	86*69	32•ग्⊓	12.64	78•€	01°68	18.28	33.08	6.62
Net Returns	972.51	972.51 193.94	976.95 193.38	193.38	980.62	980.62 195.72	985.79	965.79 197.16	930.60	930.60 185.72	971.92	971.92 194.38
Net Returns Per Cwt.	16.21	16.21 16.16	16.28	16.11	ग्र॰9ा	16.34 16.31	€†•91	16.43	15.51	15.48	16,20	16.20
Differential Per Cwt. Above	0	0	L0° 7	05	51. <i>\</i> ε1. <i>\</i>	5 1. ∤	1 + .22 + .27	f .27	02• -	89• -	10	70° 7

* Source: Data presented in this marketing study.

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J. Net Returns from 200 Pound No. 1 Hogs for Farmers in the Vicinity of Hillsdale

The larger producer had a marketing cost of \$1.19 per hundredweight at Detroit. It was 17 cents more at Hillsdale due to a higher commission charge. Due to lower shrinkage it was 30 cents less at Coldwater and 33 cents at Adrian. It was 22 cents less at Archbold due to a higher commission charge and less shrinkage. It was 64 cents less at the local market because of less shrinkage and no commission charge.

\$1.24 per hundredweight. It was 17 cents more at Hillsdale because of the higher commission charge. Due to lower shrinkage the net returns were 31 cents less at Coldwater and 30 cents less at Adrian. It was 10 cents less at Archbold due to a combination of less shrinkage and a higher commission charge. The local market was 69 cents lower because of lower shrinkage and transportation costs and no commission. See Table XXVIII.

The large producer received a net return of \$16.21 at Detroit. It was about the same at the local market. It was 45 cents more at Coldwater due to the lower marketing charges and a higher market price. Because of the lower marketing charges, it was 13 cents more at Adrian and seven cents more at Archbold. It was 62 cents less at Hillsdale due to higher marketing charges and a lower market price.

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The net returns were \$16.16 per hundredweight at Detroit for the small producer. Due to a higher market price and the lower marketing charges they were 41 cents more at Coldwater. They were 15 cents more at Adrian and four cents more at the local market because of the lower marketing charges. They were five cents lower at Archbold due to a lower market price and 57 cents lower at Hillsdale due to both the lower market price and the higher marketing charges. See Table XXIX.

K. Summary

The net returns that a large or small farmer might expect for his livestock were determined by a budget analysis of the prevailing marketing charges and market prices for the week of May 16-22, 1960.

The writer selected what he thought would be typical examples from the many livestock producers and classes of livestock. A large producer would be one selling 20 1000-pound choice steers, two 1000-pound cutter cows, three 190-pound choice veal calves, 20 90-pound lambs, and 30 200-pound No. 1 hogs. A small producer would market five 1000-pound choice steers, one 1000-pound cutter cow, one 190-pound choice veal calf, six 90-pound lambs, and six 200-pound No. 1 hogs.

A charge was made for shrinkage, a cost often overlooked by farmers. It was based on assumptions explained

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Marketing Charges for 200 Pound No. 1 Hogs from Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960* TABLE XXVIII.

18.00 4.00 18.00 14.00 18.00 3.60 15.75 3.15 20.70 4.08 15.30 3.06
3.15 20.70 4.08
3.15
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1. No charge was made for injury or death loss. 2. National Livestock and Meat Board.

* Source: Data presented in this marketing study.

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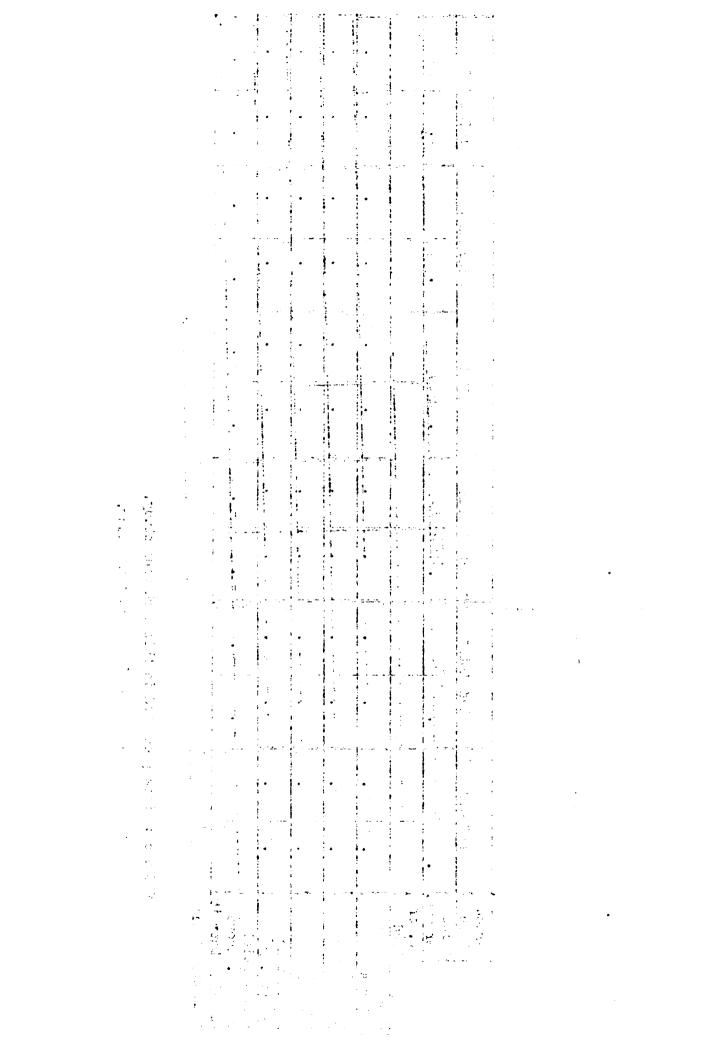
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TABLE XXIX. Net Returns from Marketing 200 Pound No. 1 Hogs for Large and Small Producers in the Vicinity of Hillsdale, Week of May 16-22, 1960*

40.000												
Place		DETROIT	ARCHBOLD	3OLD	COLD	COLDWATER	ADRIAN	AN	. HILLSDALE	SDALE	LOCAL BUYER	UYER
Price Per Cw	Price Per Cwt. 17.40		17.25		17.50		17.25		17.00		16.75	
No. of	30	9	30	9	30	9	30	9	30	9	30	9
Gross Returns	1044.00	208.80	1044.00 208.80 1035.00 207.00	207.00	1050.00	210.00	1050.00 210.00 1035.00 207.00	207.00	1020.00	20h.00	1020.00 204.00 1005.00 201.00	201.00
Marketing Charges	71.49	14.86	58.05	58.05 13.62	53.63	53.63 11.13	54.38	54.38 11.22	84.30	84.30 16.86	33.08	6.62
Net Returns	972.51	972.51 193.94	976.95 193.38	193.38	996.37	996.37 198.87	980.62	980.62 195.78	935.70	41.781 07.589	971.92	971.92 194.38
Net Returns Per Cwt.	16.21	16.16	16.28	16.11	19.91	16.61 16.57	16.34	16.34 16.31	15.59	15.59 15.59	16.20	16.20
Differential Per Cwt. Above	0	0	10° 7	50	5th. 4	_t. ↓	7. 4 EL. 4 LIL 4 .13 4 .15	£ .15	62	57	10	†0° ≠
or Below Detroit	1							-		-	-	

* Source: Data presented in this marketing study.



in Chapter VI. Another assumption was made regarding the distance the livestock must be transported to the market. This was necessary to determine the cost of transportation and the amount of shrinkage for each lot of livestock sold. See Table VIII.

The direct marketing charges were those being used at the present time at the markets and presented in Chapter VII. The market prices for each class of livestock sold were the averages paid to farmers the week of May 16-22, 1960, as reported by the markets. See Table IX.

Marketing charges were found to be the highest at Hillsdale for all classes of livestock marketed by the large and the small producers with just two exceptions. It cost more at Coldwater to market 20 choice lambs from the vicinity of Adrian due to the greater shrinkage and a relatively high commission charge. See Table XXII. It cost more to market a cutter cow at Adrian from the vicinity of Hillsdale because the shrinkage was greater than if the cow had been taken to Detroit and fed. See Table XVI.

Marketing charges were the lowest in all examples at the local dealer market because there were no charges for selling the livestock.

Marketing charges per hundredweight for the large and small producers from any one vicinity were the same for all the classes of livestock at Detroit, the local dealer

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market, and Archbold, except for the choice steers sold at Archbold because all the charges were based on a combination of a weight, per head, or a percentage of gross sales. Archbold has a reduced commission charge on sales over \$1000 on cattle, calves, sheep and lambs and over \$500 on hogs. Only the sales from the large producer of choice steers and of No. 1 hogs exceeded these gross amounts. By coincidence the lower commission on the 30 hogs sold at Archbold from the large producer offset the larger transportation charge for the six hogs from the small producer. The marketing charges were less per hundredweight at Coldwater, Adrian, and Hillsdale for all classes of livestock for the large producer than for the small producer from any one vicinity due to combinations of lower transportation charges, commission rates, and service charges.

With two exceptions the market having the highest market price for the class of livestock being marketed gave the highest net returns to both the large and small producer from the vicinities of Adrian and Hillsdale. The net returns were higher at Adrian for the large and small producer of choice lambs from the vicinity of Adrian due to the lower marketing cost even though the market price was 50 cents per hundredweight higher at Coldwater. The net returns for No. 1 hogs were higher at Adrian for both large and the small producer from the vicinity of Adrian due to

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the lower marketing charges that more than offset the 25 cents higher market price at Coldwater. The highest market price and net returns for choice steers were at Detroit, at Archbold for cutter cows, and at Coldwater for choice yeal calves.

By the use of the budget analysis of marketing costs and net returns to livestock producers in the vicinity of Adrian or of Hillsdale, it has been shown: (1) that the market with the lowest marketing costs did not give livestock producers the highest net income, (2) that the market with the highest market price did not always give livestock producers the highest net income, and (3) that the highest net returns for all classes of livestock were not at the same market. An examination of market prices and marketing costs is necessary to determine where to market livestock for the greatest net returns.

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IX. SUMMARY AND CONCLUSIONS

This thesis was devised to provide information about livestock marketing to assist the livestock and grain District Marketing Agent in the Lenawee-Hillsdale district. The Michigan Cooperative Extension Service employed its first District Marketing Agent in 1954. There are now eight. District Marketing Agents are pioneers in the field and must answer questions and help farmers solve problems pertaining to the marketing of their products.

The Lenawee-Hillsdale district is the most concentrated livestock production area of Michigan. On January 1, 1959, it had 4.9% of Michigan's cattle and calves of all ages, 4.5% of the milk cows, 7.7% of the stock sheep, and 9.1% of all the sows farrowing. Lenawee county ranks lst in the number of sows farrowing, 3rd in the number of stock sheep, 4th in the number of all cattle and calves, and 17th in the number of milk cows. Hillsdale county ranks 6th in the number of sows farrowing, 10th in the number of stock sheep, 12th in the number of all cattle and calves, and 11th in the number of milk cows.

A survey of seventy-six farmers was conducted to determine where farmers secured their livestock marketing information. Radio programs ranked first in importance.

Farmers expressed preference for market news reports from radio station WJR of Detroit and WABJ of Adrian. The daily newspapers ranked second. The Adrian Daily Telegram and the Hillsdale News were the most important newspapers.

The third most important source of marketing information was from individuals—especially truckers, commission men, livestock buyers and neighbors. These were followed by magazines, special market reports, and television.

One of the duties of the District Marketing Agent will be to gather and disseminate marketing information.

Sources of marketing information that might be used by the District Marketing Agent were gathered and described by the writer. The agent will need to evaluate and localize much of the information available. He will need to disseminate information through the media farmers are now using. This can be augmented by developing a following through personalized contact, such as the newsletter, public meetings, and newspaper columns. The successful history of Cooperative Extension Service programs in this area will be of help.

The survey of farmers indicated there were many places available to market their livestock. Most farmers indicated that they sold their livestock at the Detroit Stockyards and at local auctions. The auctions most often mentioned were at Archbold, Adrian, Coldwater, and Hillsdale. Some farmers sold direct to packers, to country dealers, and to other farmers.

Two chapters were devoted to when and how to market livestock. Long and short-time observations should be made to take advantage of price fluctuations and season-ability of livestock production. Production of the meat-type and the efficient growing livestock is important for greater returns. Selling at the optimum weight and grade for the type and class of livestock being marketed should be a goal of each farmer. Careful handling, exercising patience, and keeping livestock quiet and unexcited will reduce shrinkage and bruising losses.

Shrinkage was found to be one of the larger costs of marketing livestock. It is an indirect but an important cost to farmers. It should be included as one of the costs of marketing livestock. Research on shrinkage was summarized. Some assumptions were made by the author to determine the marketing costs due to shrinkage since there was a lack of sufficient information, especially on the short hauls of livestock.

Many direct charges were found in the process of marketing livestock. There was little uniformity in the charges. Transportation charges were by the load, by the head, or by the hundredweight. Truckers usually charged by the hundredweight, except for individual animals. They usually had a minimum charge of \$4.00 per farm stop if two or more animals were picked up. The Detroit Stockyards Company was the only market in the area to have a yardage

charge. It was the only one to make collections for truckers' transit insurance and the National Livestock and Meat
Board. It was also the only market to provide feed for
livestock to be held for later sale.

The Detroit Stockyards and Lugbill Producers, Inc., were the only markets that had a direct charge for livestock insurance. The other markets included the insurance in their commission or service charges.

There was no uniformity in the commission charges.

Lugbill Producers, Inc., and Hillsdale Auction Company
charged a percentage of the total gross sales. Detroit

Stockyards Company, Adrian Livestock Sales, and Coldwater

Livestock Commission Auction, based their charges on a per
head basis. All except Hillsdale had lower commission charges
on larger lots for some or all classes of livestock sold.

Adrian Livestock Sales and Coldwater Livestock

Commission Auction deducted a percentage of the gross sales

as a service charge to cover costs incidental to the handling
of livestock.

A budget analysis was used to determine the net returns for a large and a small producer from the vicinity of Adrian or Hillsdale. The market prices and the marketing charges that prevailed during the week of May 16-22, 1960, were used. The analysis was limited to five classes of livestock sold at the six markets reported by farmers as receiving most of the livestock sold from the area.

The budget analysis revealed some important information regarding where a farmer might expect to receive the highest possible net returns from the marketing of livestock. The highest net returns for all classes of livestock was not at the same market. The market with the lowest marketing charges did not give livestock producers the highest net returns. The market with the highest market price did not always result in the highest net income for livestock producers. Within the assumptions presented, and with a knowledge of the prevailing marketing charges and the market prices at various markets, it is possible for a producer to determine which market is most likely to give him the highest net returns for a particular class and grade of livestock.

Where to market livestock for the greatest net returns will require much diplomacy on the part of the District Marketing Agent. He should not tell any farmer where to market his livestock. Cooperation and support from the marketing agencies would be impossible were he to do this. He should explain to the livestock producer how to determine his best market by analyzing the marketing charges and his probable market price. He should tell him where the markets are located, and either supply him with or tell him where to secure the necessary information on marketing charges and market prices.

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The purpose of this study was to provide livestock marketing information in the Lenawee-Hillsdale county area that a District Marketing Agent might use.

The study has shown the importance of livestock in the area and the production trends. It has described the markets of the area, the marketing charges, and how one might determine the possible net returns from the marketing of livestock at the several markets. It has given the sources and kinds of livestock marketing information that farmers receive and use. The author sincerely hopes that this study will be of much value in its intended use.

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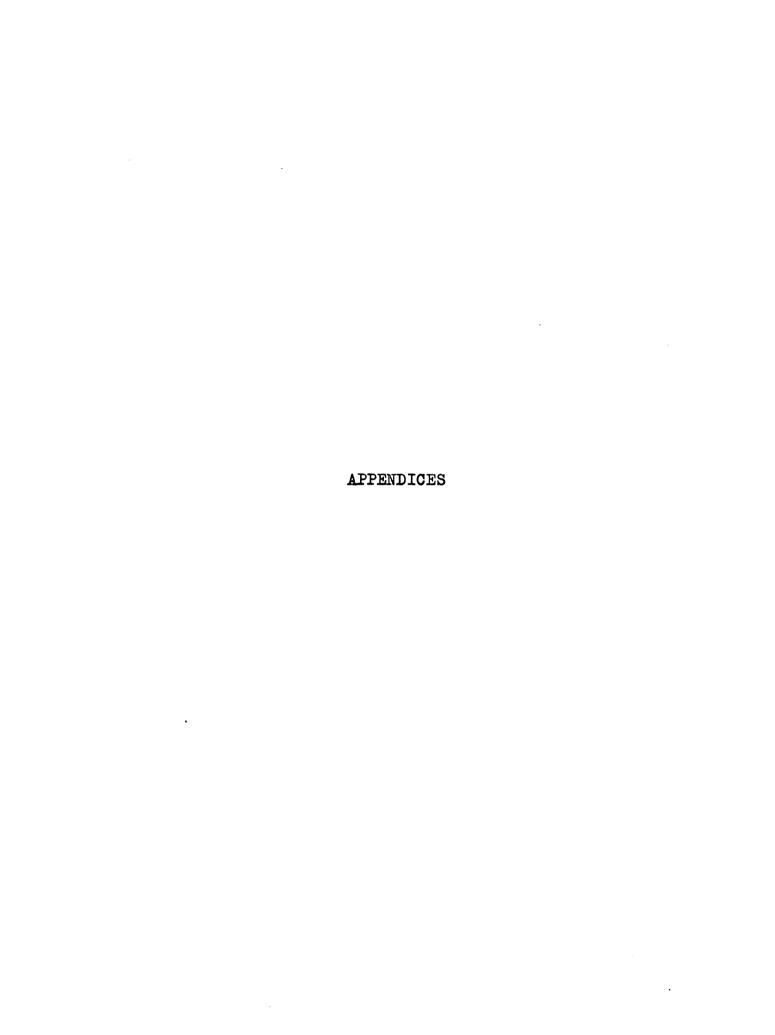
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2. Do 3	ou broadcast	livestock market repor	rts? Yes	No
3. Des	ription of p	rograms:		
Α.	Time	to		
	Check days:	Mon, Tues, We	d, Thurs _	_, Fri,
		Sat, Sun		
	Grain	Livestock	Both _	
	Sources of q	uotations		
	Commentator			
	Sponsor			
	Other Commen			
В.	Time	_ to		
	Check days:	Mon, Tues, We	d, Thurs _	, Fri,
		Sat, Sun		
	Grain	Livestock	Both	
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Thank you.

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Other Comments:

Harvey J. Elliott Co. Agricultural Agent

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LENAWEE-HILLSDALE MARKETING QUESTIONNAIRE 1955

	Name			Addre	e 8	6			
l.	A. B.	To what newspapers do you subscribe? (Mark with A) Which of these are a source of market quotations or other market information to you? (Mark with B)							
		Dai	ly papers	We	ee	kly papers			
		1.	Adrian Daily Telegram	1.		Litchfield Gaz	zett	e	
		2.	Hillsdale News	2,	é	North Adams Ad	ivoc	ate	
		3.	Toledo Blade	3.	•	Reading Farmer	rs A	dvance	
		4.	Detroit Free Press	Ц.	•	Reading Hustle	er		
		5.	Detroit Times	5	•	Addison Courie	er		
		6.	Chicago Daily Drovers	Journal 6	•	Blissfield Adv	vanc	е	
		7.	Jackson Citizen Patroi	t 7.	•	Clinton Local			
		_		8.	•	Hudson Post G	azet	te	
				9	•	Morenci Observ	ver		
		-		10	•	Tecumseh Hera	ld		
2.	Α.	Wh	nat farm magazines do yo	u receive?	(Mark with A)			
	B.	Wh	nich of these are a sour	ce of marke	ti	ng information	to	you? (M	arkwith B)
		1.	Michigan Farmer	4. Michiga	n	Farm Economics	7.	Prairie	Farmer
		2.	Cappers Farmer	5. Hoards	Da	irymen	8.	B etter	Farming
		3.	, Farm Journal	6. Success	fu	l Farming	9.	Indiana Guide	Farmer's
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	A.	What radio programs do you find of value in securing Livestock
		Marketing Information? Mark A.
	В•	What radio programs do you find of value in securing Grain Marketing
		Information? Mark B.
		1. WJR Detroit 8. WOWO Fort Wayne
		2. WTVB Coldwater9. WKAR East Lansing
		3. WJOE Hillsdale 10. WMAQ Chicago
		4. WABJ Adrian11. WLS Chicago
		5. VIBn Jackson 12. WKZO Kalamazoo
		6. WPAG Ann Arbor 13. WSPD Toledo
		7. WWJ Detroitlu. WTOD Toledo
4.	Α.	Do you receive market reports on television? YES NO .
		Station Program Time
	В∙	Station Program Time Do you have a television set? YES NO
_		Do you have a television set? YES NO
5 .		Do you have a television set? YESNO Do you look to other sources of information regarding when to sell?
5.		Do you have a television set? YESNO Do you look to other sources of information regarding when to sell? (Ll, 2,3,-Livestock; Gl,2,3, - Grains)
5.		Do you have a television set? YESNO Do you look to other sources of information regarding when to sell?
5.		Do you have a television set? YESNO Do you look to other sources of information regarding when to sell? (Ll, 2,3,-Livestock; Gl,2,3, - Grains)
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5.		Do you have a television set? YESNO
5.		Do you have a television set? YESNO

6.	Of all the sources of marketing	information available to you	, what are the
	three most important enes in ord	er of preference. (Indicate	9, 1,2,3,)
	1. Newspapers	4. Television	
	2. Magazines	5. Individual	
	3. Radio	6. Special Market Report	t
7 .	How many head of livestock did y	ou market in 1954?	
	l. Beef Cattle	4. Swine	
	2. Dairy cattle	5. Sheep & Lambs	
	3. Calves	6. Feeders	
8.	A. Where do you market your woo	1?	
	B. Why did you select this mark	et?	
9•	Where did you sell your livestoo	k in 1954?	
	Market	Name and Location	Key
	l. Beef cattle		T-Terminal
	2. Dairy cattle		
	3. Calves		OB-Order Buyer
	4. Hogs		D-Dealer
	5. Sheep & Lambs	A - 1942 - Andrea estado a ser como estado a ser como estado a ser como estado a se constituido de la como est	Tr-Trucker
	6. Feeders	***	P-Packer
	7. Others		B-Butchar
			L-Lockerplant
			Cy-Concentration Yard F-Farmer
			0-Other

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for	each livestock class.				
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1.	Beef cattle	_ A.	Higher price	F.	Less Trans. cost
2.	Dairy cattle	В.	Convenience	G.	Confidence in buyer
3.	Calves	_ C.	Less shrink	Н∙	•
4.	Hogs	_ D.	Habit (custom)	I.	•
5.	Sheep & Lambs	\mathbf{E}_{ullet}	Price known:	_	
6.	Feeders		MATTERS DOTTING		Coner
7.	Others				
	What other markets are availa	ab le	to you? (See 10)	
Cla	ass of livestock Type of	f mar	<u>Name</u>	or	location
					and the state of t
			riudigas emilikadora		
Why	y haven't you sold at these man	rkets	3? Indicate fir	st cl	hoice by number
for	r each livestock class.				
1.	Price too low				
2.	Too few buyers at market				
3.	Transportation costs too great	at			
4.	Owns & sells small lots				
5.	Don't know				
	Other				
	you truck your own livestock				

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14.	H	ow d	o you dete	ermine when to	sell yo	ur livest	ock? (R	ank 1,2,3,	, in order	
	0	f im	n ortanc e.)							
	1	. C	heck daily	price quotati	lons					
	2	• บ	se outlook	information _				•		
	3	. Ü	se seasona	l price inform	ation _					
	4	. s	ell when l	ivestock is re	ady					
	5	. W	hen market	agency say th	iey are	ready				
	6	. 0	ther					·		
15.	À.	Did	you purch	ase feeder cat	tle in	1954 YES	NO _			
	В•	Did	you purch	ase feeder pig	s in 19	54? YES	NO _			
	C.	Did	you purch	ase feeder lam	ibs in 1	954? Yes	NO _			
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1 <u>6</u> .		Fro		rce do you sec Commission Fir				rom range	Other	
		1.	Cattle							٦
		2.	Pigs							7
		3.	Lambs							1
							1			-
17.		Why	go Aon ba	rchase feeders	where	you do?				
		1.	Convenien	ıt	4	. More u	miform g	rade		
		2.	Lower cos	t	5	• Freedo	m from d	isease		
		3.	B etter q	uality	6	• Faith	in selle	r		
					7	• Other	•			
18.		1.	How many	bushels of gra	in did	you produ	ce in 19	54?		
		1.	Corn	bu.	4.	Barley _		_ bu.		
		2.	0ats	bu.	5.	Rye		_ bu.		
		3.	Wheat	bu.	6.	Soybeans	·	_ bu.		

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19.	How much of this h	as been so	ld or w	ill be sold as	cash grain?				
٠	1. Corn	_ bu.	4.	Barley	bu.				
	2. Oats	_ bu.	5.	Rye	bu.				
	3. Wheat	_ bu.	6.	Soybeans	bu•				
20.	Do you store grain	on your fa	arm oth	er than the amo	unt you may need				
	for livestock? YE	s, No _	•						
21.	About how many bus	About how many bushels in excess of your normal livestock needs could							
	you store in your	present fac	cilitie	s?					
	l. Small grains _	bu.	2.	Corn bu	•				
22.	Where did you sell	. your grain	n in 19	54?					
	Market	Name	of ele	vator, terminal	, etc.				
	l. Corn				Key				
	2. Oats				F-Farmer				
	3. Wheat				T-Terminal				
	4. B arley	-			L-Local Elevator				
	5. Rye				G-Government				
	6. Soybeans				M-Miller				
23.	Is there a special	reason for	r selli	ng at the above	place or places?				
	1. Corn		Key						
	2. Oats	_	A_{ullet}	Convenience	E. No reason				
	3. Wheat	nume	В∙	Higher price	F. Don't know				
	4. Barley		C.	Less dockage	G. Other (write in)				
	5. Rye		D_{\bullet}	Custom (habit)					
	6. Soybeans	_							

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24.	(Answer only if the answer to No. 22 is other than at the local
	elevator) Is there a special reason for not selling at a local
	elevator?
	1. Have to wait too long 4. Elevator won't buy (explain)
	2. Price too low 5. No reason
	3. Too much dockage 6. Other
	Questions 25 through 28 apply only to those selling grain at a local
	elevator.
25.	How would you rate the service that the elevators of your area give when
	buying grain, especially during the harvest season?
	1. Good 2. Fair 3. Poor
26.	How long do you have to wait to unload wheat at the elevator hrs.
27.	Do you feel that this wait is too long? YES NO
28.	Do you feel that the local elevator prices paid for grain are in line
	with the other grain buyers in the area? YES NO
29.	Do the elevators in your community ever close because of lack of
	storage space? YES NO
30.	Do you feel that the grain handling and storage charges at the elevators
	of your area are reasonable? YES NO
31.	How much have you increased your farm storage facilities during the
	last five years? Cornbu., Small grainsbu.
32.	In your opinion, what change in marketing of grain & livestock would
	help farmers increase their income.
	Grain
	Livestock

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