1963 ANNUAL REPORT

VOCATIONAL AGRICULTURE FARM ANALYSIS

EAST SOUTH CENTRAL MINNESOTA



AUSTIN AREA VOCATIONAL SCHOOL AUSTIN, MINNESOTA

IN COOPERATION WITH

VOCATIONAL DIVISION, MINNESOTA DEPARTMENT OF EDUCATION
AND AGRICULTURAL EDUCATION DEPARTMENT
UNIVERSITY OF MINNESOTA

1963 REPORT OF THE VOCATIONAL AGRICULTURE FARM ANALYSIS SERVICE IN EAST SOUTH CENTRAL MINNESOTA

Charles M. Painter

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INTRODUCTION

This is the ninth year that an analysis has been made by the Austin Area Vocational-Technical School. This type of analysis follows the same pattern as that used by the Farm Management Division of the University of Minnesota. These techniques have been developed through studies made with farm management association members since 1928.

We are indebted to Truman Nodland and his associates in the Farm Management Division for the many years of service rendered to Vocational Agriculture. The analysis of Veterans Agriculture farm account books and those of cooperating Vocational Agriculture adult farmers has been the principle, but by no means the only contribution to Vocational Agriculture by the Farm Management Division.

We would like to express our appreciation to J. A. Kentta, Printing Instructor of the Austin Area Vocational-Technical School, and his class for preparing our cover page and assembling the report. The special design on the cover page is characteristic of Jack's creativeness.

Some main purposes of the farm analysis services in this area are: (1) to assist instructors and cooperating farmers in farm accounting techniques; (2) to aid the farmer in the study of his farm business through analysis reports and (3) to provide case study material that can be used by farmers and farm groups to study management problems. The analysis also probably has some research value.

This report and the analysis of records included in the report were done under the direction of Charles M. Painter, Vocational Agriculture Coordinator, Austin Area Vocational-Technical School. Analysis assistants were: Madge Anderson, Dexter; Elaine Harber and Eileen Heimsness, both of Austin; Audrey Anhorn and Donna Qualey of Faribault and Patricia Francis of Blooming Prairie. Helen Bergh and Lynda Planz, school secretaries, deserve credit for the typing and duplicating. Without the excellent work and team effort of these people this report would not have been possible.

Directing in a supervisory capacity for this and the other cooperating projects were: G. R. Cochran, State Supervisor of Agricultural Education; S. K. Wick, Director of Vocational Education; Morton A. Carney, Director of the Austin Area Vocational-Technical School and Irwin T. Mickelson, Austin Superintendent of Schools. William Knaak, former Assistant Director of Vocational Education, assisted in the early development of the program. Technical assistance was provided by the University Agricultural Education Department under the direction of Dr. Milo Peterson. The professional assistance of the University Division of Agricultural Economics and the Agricultural Extension Service have done much to bring farm management study up to date. Financial assistance from the Hill Family Foundation helped to initiate the program from 1954 through 1957.

Farmers pay a fee to cover clerical costs, paper, and stencils.

The following schools submitted 1963 farm records for analysis:

Name of School	No. of Book	s Instructors
Adams	9	Dwain Vangsness*
Austin	22	Leland Arneson*
Blooming Prairie	30	Eugene Francis* Truman Tilleraas
Faribault	45	Ralph Palan* Paul Day
Hayfield	12	Bruce Oxton* Bert Fuller Frank Moon
Kenyon	.6	Dennis Kluver* John Shelstad
LeRoy	14	Donald Haugland*
Lyle	1	"Pete" Godfredson
New Richland	5/1	Wayne Broecker* Gary Leske
Rochester	1	W. O. Woodman*
Owatonna	3	John Zwiebel* Glenn Edin
Spring Valley	3	Ed Morine* Rollis Larson
Wanamingo	2	Robert Johnson*
West Concord	3	Hilbert Hoof*
Zumbrota	4	Gerald Halvorson*
Alden	TOTAL $\frac{1}{170}$	John Nelson*

^{*} Instructor responsible for the Adult Agriculture program

Table 1 Summary of Farm Inventories 1963

Items	Your Fa Jan. 1		Average of 11. Jan. 1 - Dec.	
Size of Farm (Acres) Size of Business (Work Units)**			251.4 467	
Dairy and Dual Purpose Cows Other Dairy and Dual Purpose Cattle Beef Cattle (including feeders) Hogs Sheep (including feeders) Poultry (including turkeys) Productive Livestock (total) Crop, Seed and Feed Power Machinery (farm share) Crop and General Machinery Livestock Equipment Machinery & Equipment (total) Miscellaneous Land Buildings, Fences, etc.			1676 2673 3143 215 148 \$11215 7998 3608 4522 1171 \$9301	\$ 3338 1725 3262 3290 140 141 \$11896 9634 3543 4510 1337 \$9390 \$26576 14339
Total Farm Capital			\$69281	\$71835
28 Most Pro Items	fitable Jan. 1-		Least Profita Jan. 1	ble Farms -Dec. 31
Size of Farm (Acres) Size of Business (work units)**	333 589		224.5 413	
Dairy and Dual Purpose Cows Other Dairy & Dual Purpose Cows Beef Cattle (including feeders) Hogs Sheep (including feeders) Poultry Productive Livestock (total) Crop, Seed, Feed Power Machinery (farm share) Crop & General Machinery Livestock Equipment Machinery & Equipment (total) Miscellaneous Land Buildings, Fences, etc.	\$ 3475 1757 1216 5427 629 93 \$12597 15587 5119 6836 1276 \$13231 35243 20555	\$ 3092 1551 3339 5863 148 75 \$14068 18778 4975 6539 1484 \$12998 35243 21197	\$ 2712 1390 7184 2212 242 134 \$13874 5374 3219 3803 898 \$7920	\$ 2554 1515 6816 2593 408 84 \$13970 6128 2988 3968 907 \$7863 23043 15045
Total Farm Capital	\$97213	\$102284	\$65166	\$66049

^{*} For the purpose of comparison, all the data shown in this report, with the exception of household expenses, are presented on a full-owner basis. The assets, expenses and receipts of the landlord were included in the records from rented farms.

^{**} See explanation of Work Unit on page 9.

Table 2 Summary of Farm Ea	rnings (Cash State	ment) 1963	
		Average	28 Most	28 Least
Items	Your	of 140		Profitable
	Farm	Farms	Farms	Farms
FARM RECEIPTS		# = 010	# 2009	# 1011
Dairy and dual purpose cattle		\$ 1348	\$ 1908	\$ 1211 3614
Dairy Products		5073	5271 2060	
Beef cattle (including feeders)		3813	3269	10830
Hogs		7860	14380	5455
Sheep & wool (including feeders)		234	803	173 24
Poultry		25 cl. 6	28 435	330
Eggs		546	435 4809	925
Corn		2137 726	970	584
Small Grain		2472	4890	1230
Other crops		281	533	189
Mach & equip sold-gas tax ref.		327	334	397
Income from work off the farm Miscellaneous farm income		1478	28 1 1	1045
	***************************************	\$26320	\$40441	\$26007
(1) Total farm sales(2) Increase in farm capital	4	2554	5070	883
(3) Family living from the farm		330	338	261
		\$29204	\$45849	\$27151
(4) Total farm receipts (1+2+3)		4457504	仲はプロログ	小に「エンエ
FARM EXPENSES				
Dairy & dual purp. cattle bought		\$ 221	\$ 138	\$ 325
Beef cattle bought (inc. feeders)		2829	3647	7519
Hogs bought		590	632	564
Sheep bought (inc. feeders)		36	5	168
Airplane - gas, oil, repair		4	19	per per
Poultry bought		57	30	36
Miscellaneous livestock expense		582	769	620
Feed bought		4341	6220	4641
Fertilizers		1327 .	2354	1088
Other crop expenses		973	1686	652
Custom work hired		722	941	639
Gas, oil, grease bought (F. share)		1079	1547	897
Rep. mechanical power (F. share)		595	856	475
Rep. & upkeep of real estate		336	777	388
Rep. & upkeep of crop & gen. mach.		440	614	385
Rep. & upkeep of livestock equipment	-	172	296	116
Wages of hired labor		538	1190	31.7
Electricity expense (farm share)		299	7606 7606	255 1109
Real estate & personal prop. tax		1206	1626 510	278
General farm expenses		333 \$16680	\$23927	\$20472
(5) Total cash operating expense		ф±0000 693	964	451
(6) Cap. purc-mech. pow. (F. share)		923	1081	965
(7) Cap. purc-crop & gen. mach.		423	536	220
(8) Cap. purc. livestock equipment (9) Cap. pur. buildings & fencing	****	1095	2199	1061
(10) Total farm purchases (5-9)	***************************************	\$19814	\$28707	\$23169
(11) Decrease in farm capital		17>	000 and 600 AND	200 mm and and and
(12) Interest on farm capital		3528	4987	3280
(13) Unpaid family labor		634	730	737
(14) Board furnished hired labor		66	94	45
(15) Total farm expenses (10-14)	***************************************	\$24042	\$34518	\$27231
(16) Labor earnings (4-15)		5162	11331	- 80

Items	Your Farm	Average of 140 Farms	28 Most Profitabl Farms	28 Least Le Profitable Farms
				· · · · · · · · · · · · · · · · · · ·
RETURNS AND NET INCREASES		\$ 5057	\$ 5224	\$ 3547
Dairy and dual purpose cows	-	1512	1647	1158
Other dairy & dual purpose cattle	y-100-100-100-100-100-100-100-100-100-10	248	73	373
Beef breeding herd Feeder cattle		1300	1536	2607
Hogs		7477	14279	5317
Sheep - farm flock		123	318	172
Sheep - feeders				-
Turkeys		page gave about	****	<u> </u>
Chickens		529	<u>434</u>	<u> 277</u>
ALL PRODUCTIVE LIVESTOCK		\$16246	\$23511	\$13451
Value of feed fed to livestock		<u>-12080</u>	<u>-16601</u>	- 12093
Return over feed from livestock		\$ 4166	\$ 6910	\$ 1358
Crops, seed, and feed		12341	20141	9137
Income from labor off the farm	***************************************	208	206	301
Agricultural conservation payments		1288	2588	865
Miscellaneous (1) TOTAL RETURNS & NET INCREASES		189 \$18192	216 \$30061	181 \$11842
Airplane Truck Auto (farm share) Tractor Elec. & gas engine expense (F.share) Hired power Total power Crop & general machinery Livestock equipment Buildings, fencing and tiling Misc. prod. livestock expense Labor Real estate taxes Personal property tax		\$ 9 321 500 1320 299 384 \$ 2833 1409 418 1241 582 1479 999 208	\$ 45 586 696 1803 404 514 \$ 4048 2065 588 1810 769 2328 1354 272	\$ 243 381 1202 256 344 \$ 2426 1211 326 1360 620 1312 894 214
Insurance		163	253	134
General farm		170	256	145
Interest on farm capital		3528	4987	3280
(2) TOTAL EXPENSES & NET DECREASE	S	\$13030	\$18730	\$11922
(3) LABOR EARNINGS (1) - (2)		\$ 5162	\$11331	\$ - 80

^{*} Cash receipts and expenses are adjusted for changes in inventory for each enterprise and for each item of expense in order to show total receipts and net increases, and total expenses and net decreases.

Table 4 Cash Household and Personal Expenses for Those Farms which kept complete accounts of these expenses 1963

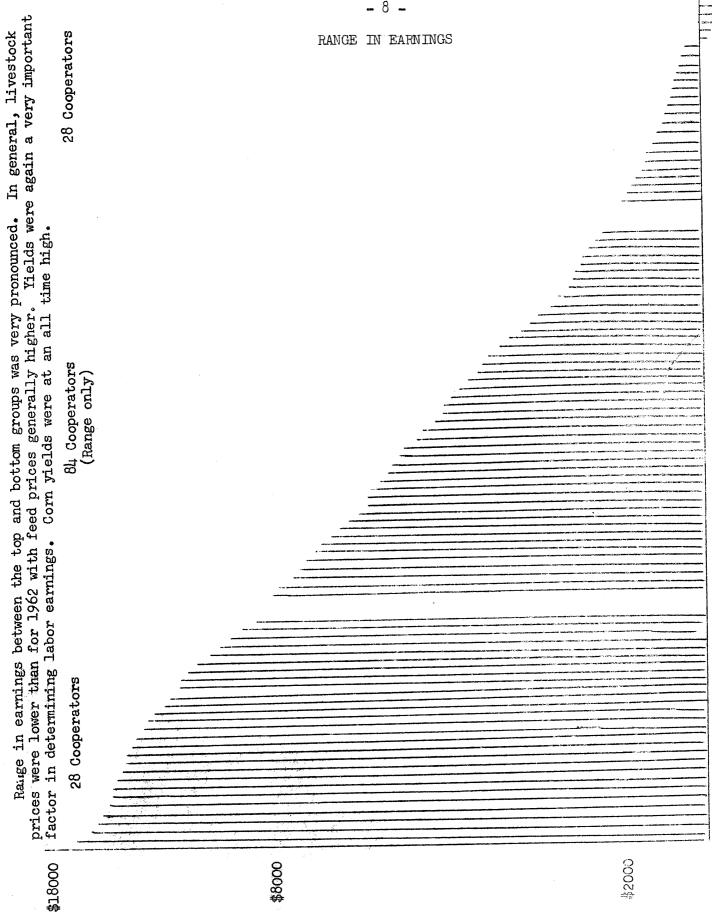
Items	Your farm	Average of 58 farms
Number of persons - family		5 . 5
Number of adult equivalent - family		3.8
Food and meals bought	•	\$1070
Operating and supplies	***************************************	293
Furnishings and equipment	**************************************	249
Clothing and clothing materials	and the second second second	391
Personal care, personal spending		131
Education, recreation and development	and the same to be a same to the same	212
Gifts and special events	de communication de la confession de la	137
Medical care and health insurance	***************************************	444
Church, welfare	discretização, como destribito de se	214
Pers. share truck & auto exp.		185
Oper. share upkeep on dwelling		109
Pers. share tel. & elect. expense		116
Total cash living expenses		\$3551
Pers. share new auto & truck	Super-contains to the plane of the visual part of the state of the sta	125
Taxes and other deductions	Miller makker-reporte Busspronggan-siteme	$1\dot{l}_4$
Life insurance	**************************************	240
Other savings and investments	* martines values and bear	123
Total household & personal cash exp.		\$4053
Total family living from the farm	William work of the second	353
Total cash exp. and perquisites		\$4406
Income: Operators labor earnings		\$4164
Return to capital & labor		\$6335

Table 5 Net Worth Statement for those Farmers who kept a complete record of all Assets and Liabilities 1963 (Operator's share)

Items	Your Jan. l	farm Dec. 31	Owners-Part Owners Jan. 1	100 farms Dec. 31.	Renters Jan. 1	-21 farms Dec. 31.
Total farm capital Auto (Personal share) Dwelling Other personal assets TOTAL ASSETS			\$44898 449 246 5 4756 \$52568	\$46855 431 2547 4769 \$54602	\$18125 336 4525 \$22986	\$20083 339 4960 \$25382
Real estate mortgages Chattel mortgages Notes Accounts payable TOTAL LIABILITIES			\$14194 3984 1949 9 1 8 \$21045	\$14037 3792 2075 1072 \$20976	\$ 2769 2408 1357 \$ 6534	\$ 3523 2675 1480 \$ 7678
Farmer's Net Worth Gain in Net Worth			\$31523	\$33626 \$ 2103	\$16452	\$17704 \$ 1 252

Table 6 Summary of Farm Earnings by Tenure 1963 (Operator's Share)

	V	57	59 Part	23
~ .	Your	Owners	Owners	Renters
Items	Farm	OMITELS	Owners	1(0110010
FARM RECEIPTS	dis	\$ 1229	\$ 1267	\$ 918
Dairy and dual purpose cattle	Φ	4656	4636	3938
Dairy products	-	2452	5889	1217
Beef cattle (including feeders)			6146	4527
Hogs		9585	401	4521
Sheep and wool (including feeders)	-	122	28	1
Poultry (including turkeys)		30		52
Eggs		697	540	840
Corn	Base religiones to Agricultura (Contraction Contraction Contractio	1329	2160	
Small grain		504	745	482
Other crops	-	1792	2832	1230
Machinery and equipment sold		248	320	218
Income from work off the farm		284	312	740
Miscellaneous		1452	1605	677
(1) Total farm sales	\$	\$24380	\$26881	\$14588
(2) Increase in farm capital		1643	3836	1974
(3) Family living from the farm		317	<u>325</u>	290
(4) Total farm receipts $(1)+(2)+(3)$	\$	\$26340	\$31042	\$16852
FARM EXPENSES				
Dairy and dual purpose cattle bought	\$	\$ 143	\$ 203	\$ 249
Beef cattle bought (including feeders)		1159	5022	718
Hogs bought	-	793	331	547
Sheep bought (including feeders)		21	61	9
Airplane expenses	**************************************	10	ngé éter	
Poultry		94	37	5
Miscellaneous livestock expense		581	545	388
Feed	<u></u>	4540	4052	2622
Fertilizers		1297	1285	685
Other crop expense	***************************************	905	1019	51 8
Custom work hired	**************************************	591	782	518
		989	1176	768
Gas, oil, grease		549	635	527
Rep. tractor, truck, auto (farm share)		289	343	50
Rep. & upkeep of real estate		448	425	395
Rep. & upkeep of crop & gen. mach.		184	180	107
Rep. & upkeep of livestock equipment	p	466	641	382
Wages of hired labor	····	303	295	237
Electricity expense (farm share)		1098	789	138
Real estate & personal property taxes	Appendiculate a street of the street, and a	1090	731	992
Cash rent	and the same of the same of	351	340	185
General farm expenses		1628	1121	343
Interest paid	db	\$16439	\$20013	\$10 <u>383</u>
Total cash operating expenses	₽			947
Mechanical power bought (farm share)		557 71.0	733	831
Crop and general machinery bought		740	1097	
Livestock equipment bought	-	373	513	336 381
New real estate improvements	д	944	152 <u>3</u>	
(5) Total farm purchases	\$	\$19053	\$23879	\$12878
(6) Decrease in farm capital	-			~~~~~
(7) Interest on farm capital		1682	1735	735
(8) Unpaid family labor		551	743	470
(9) Board furnished hired labor		57	68	7 <u>1</u>
(10) Total farm expenses (5+6+7+8+9)	\$	\$21.343	\$26425	\$14154
(ll) Labor earnings (4-10)		4997	4617	2698
(12) Ret. to cap. & fam. labor (7+8+11)	7230	7095	3903



"WORK UNITS"

The total "work units" for any one farm is a measure of the size of that farm business. A work unit as used in this report is the average accomplishment of a farm worker in a ten hour day. The number of work units per farm or per worker may be interpreted differently for different farm situations. They may measure the degree of efficiency of labor due to mechanization or careful planning. They may also measure quality or quantity of work. Occasionally high work units per worker indicate an excessive work load. The number of work units for each class of livestock and each acre of crop are presented in Table 7.

Table 7 Number of Work Units for each class of Livestock and each acre of Crop

Item	No. of Work Units	Item	No. of Wcrk Units	
Dairy and dual-purpose cows Other dairy & du. pur. cattle Beef breeding herd Feeder cattle Sheep - farm flock Sheep - feeders Hogs Turkeys Hens Canning peas Saybeans for grain	10.0 per cow 3.5 per an. unit* 3.5 per an. unit* .25 per 100 lbs. 1.5 per an. unit* .3 per 100 lbs2 per 100 lbs2 per 100 lbs. 20.0 per 100 hens .5 per acre .5 per acre	Sugar beets Sweet corn Corn husked Corn, hogged Corn, Shredded Corn, silage Corn, fodder	.5 per acre 1.5 per acre .7 per acre .7 per acre .4 per acre 1.5 per acre 1.0 per acre 1.0 per acre .6 per acre .8 per acre	

^{*} Animal unit represents one dairy cow or bull; two other dairy cattle; 1 1/4 beef cows or bull; 1 feeder steer or heifer; 3 1/3 other beef cattle; 7 sheep; 14 lambs; 2 1/2 hogs; 5 pigs; 50 hens or 1,100 pounds of turkey produced.

Table 8 Measures of Farm Organization and Management Efficiency 1963 28 least 28 most Average profitable profitable of 140 Your farms farms farms farm Measures used in chart on page 11 \$ -81.00 \$5162 \$11,331. Labor earnings 111 94 100 (1) Crop yields* (2) Per cent tillable land in 68.4 66.5 71.5 high return crops (3) Return for \$100 feed to produce 106 87 100 livestock* (4) Prod. livestock units per 39.8 43.8 37.4 100 acres** 467 589 413 (5) Size of business-work units 355 293 323 (6) Work units per worker (7) Power; machinery; equipment; 15.67 \$ 15.01 \$13.62 building expense per work unit Items related to some of the above measures (3) Index of return for \$100 feed from: 100 83 100 Dairy cattle (see pgs 15 & 16) Beef cattle-breeding herd 102 124 (see page 17) 100 100 104 93 Beef cattle-feeders (see pg 17) 100 109 95 Hogs (see pages 13 & 14) 121 99 Sheep-farm flock (see pg 18) 100 100 Turkeys (see page 20) ---65 100 117 Chickens (see page 19)

(4)	Number of animal units		78.8	103.6	86.4
(5)	Work units on crop Work units on prod. livestock		118 349	173 416	97 316
(7)	Power expense per work unit	\$	\$6.71	\$7.31	\$7.50
	Crop Machinery expense per work units	\$	\$3 .20	\$3.64	\$3.37
	Livestock equip expense per work unit	\$	\$.85	\$.95	\$.86
	Building & fence expense per work unit	\$	\$2.86	\$3.11	\$3.94
		<u></u>			

^{*} Given as a percentage of the average.

^{**} Acres in timber not pastured, roads, waste & farmstead were not included.

Using your figures from page 10, locate your standing with respect to the various measures of farm organization and management efficiency. The averages for the 144 farms included in this summary are located between the dotted lines across the center of this page.

THERMOMETER CHART

Labor Earnings	Crop Yields	High Return Crops	Return from Productive	Pr. L. S. units per 100 A.	Work Units	Work units per worker	Pow.; Mach. Eqp. Bldg. exp.pr.w.u.
12,000	135	90	135 7	0 =	800	500 = \$	7.00
10,000	128 =	82 =	1266	00	750 =	460	9.00
8,000	120	78	120 5	75	700	430	10.00
7,000	115	76	- 114 = 5	so =	650	400	11.00
6,500	110	74	1104	16	600	360	11.50
6,000	106	72	106	13	550 =	345	12.00
5,500	103	69	-102-	39	480	330 =	13:00
4,700	97	64	93	36	460	315	14.00
4,000	93	61	93 =	34 =	ЩO =	305	14.50
3,200	89	58	88 = :	31 =	420	295	15.00
2,500 =	84 =	54	82 = 1	29	400	280 =	15.50
1,500	77	50	78 =	27	370	260	16.00
500	74 =	45 =	73 =	24	340	240	16.50
0	71 =	40	69	20	300	210	17.00
-1000	67	35	65	15	260	190	18.00
					$)$ \subset	$) \subset$	

Table 9 Dist	tribution	of Acres	and Yi	eld 1963 Average	
Crop	Crop rating	Number growing	your	acres of	Average Yield
Canning peas	В	5		•7	\$49.06
Flax	С	5 5		•9	12.7 T
Wheat	C	80		8•5	 31.0 bu.
Oats silage	C	9		•5	 5.5 T
Oats for grain	D	133		21.5	 61.2 bu. 41.8 bu.
Barley and rye*	D	1		<u>•7</u>	 41.0 bus
Total small grain & peas				32.8	
Sugar beets	A	4		2.7	 14.5 T 87.5 bu.
Corn grain	A	166		84.2 1.4	 6.8 T
Sweet corn	В	12		32.4	 26.6 bu.
Soybeans	В	122 1 1 4		9.5	 13.9 T
Corn silage	B A	114		.1	-207 -
Truck crops, potatoes*	A	. L			
Total cultivated crops				130.3	1
Alfalfa hay	В	144		24.9	 2.9 T 2.1 T
Other leg. & leg. mixtures	C	17		1.9	 1.7 T
Miscellaneous hay and seed*	D	5		<u>.3</u>	 T•! T
Total tillable land in hay				27.1	
Alfalfa pasture	В	91		9•3	
Other legume pasture	(C or B)			•9	
Other tillable pasture	D	8			
Total tillable land in pastu	ire			10.5	
Government program		117		20.7	
Tillable land not cropped		11		•5	
(including plowdown & waterway	rs)				
Total tillable land			***************************************	221.9	
Wild hay				.5	
Non-tillable pasture				15.6	
Timber				2.7	
Roads and waste				10.4	
Farmstead				9.0	
Miscellaneous				1	
Total acres in farm			• 14-4-1-	260.2	
Per cent land tillable				85.0	
Per cent in high return crops				67.0	
TOT OOTIO TIT TIMBER TO OUT THE PER			***************************************		-

^{*} Some crops were grouped because acreages for each were less than one acre.
Included are legumes for seed and timothy for seed and emergency hay crops.

TOTAL FEED COSTS AND RETURNS FROM YOUR LIVESTOCK ENTERPRISES

The total "return over feed costs" for each class of livestock is shown in Table 10. This differs from the "return over feed" shown in the enterprise statement in that it is the total for each class of livestock instead of a return "per head", "per unit" or "per 100 pounds." These data indicate the relative importance of different classes of livestock as a source of income and as a market for feed. The value of milk consumed by calves is included in the total returns from dairy or dual purpose cattle. The value of milk consumed by calves is not included in either the total returns or the feed cost of "all dairy" or "all dual purpose" cattle. The return over feed is not a net return, but rather the amount available from the gross income, after paying the feed bill, to cover the outlay for hired labor, power, equipment, taxes, insurance, interest, and veterinary bills, and to provide a return for the use of family labor and capital.

Table 10 Total Feed Costs and Returns from Your Livestock Enterprises 1963

		Dual Purpose		Beef Breeding
	Cows	Other	All	Herd
Total returns Total feed cost Total return over feed				
	Feeder Cattle	Hogs	Farm Flock of Sheep	Chickens
Total returns Total feed cost Total return over feed				

Feed is the largest single item of cost for all classes of livestock. The proportion of the total cost represented by feed varies between classes of livestock. Feed makes up approximately 45 per cent of the total costs of maintaining dairy cattle and poultry, 50 per cent in the case of a farm flock of sheep, and 70 to 80 per cent for hogs, feeder cattle and feeder lambs. It is necessary to secure a relatively higher return over feed from dairy cattle and poultry than from the other livestock enterprises to cover costs other than feed.

- 14 Table II Feed Costs and Returns from Hogs 1963

Items	Your farm	Average of 90 farms	22 farms highest in returns above feed	in returns
Feed per cwt. hogs produced, lbs: Corn Small grain Commercial feeds Total concentrates Forage and Misc.		340 46 69 455 7	303 36 55 394 6	413 50 100 563 12
Feed cost per cwt. hogs produced: Concentrates (plus forage & misc. Pasture		\$11.72 •01	\$ 9.95 .01	\$13.84
TOTAL FEED COSTS	***************************************	\$11.73	\$ 9.96	\$13.84
Net increase in val per cwt. hogs pr	ro	\$14.29	\$15.15	\$13.56
RETURNS ABOVE FEED COST PER CWT. HOGS PRODUCED		\$ 2.56	\$ 5.19	- 28
RETURN FOR \$100 OF FEED	and the second second second second	\$123.00	\$152.00	\$ 98.00
Price received per cwt. hogs sold	***************************************	\$14.94	\$15.35	\$14.23
No. of spring litters raised No. of fall litters raised Total no. of litters raised		20 20 40	25. 27. 52.	13 13 26
No. of pigs born per litter No. of pigs weaned per litter		9.2 7.2	9 • 4 7 • 7	8.4 6.1
Pounds of hogs produced	way or property of the state of	69423	89136	39853

Operators producing less than 10000 pounds of pork are omitted from hog averages. Ten feeder pig operations are shown on a seperate table. Questionable records were omitted including those who produced hogs for only a portion of the year.

DAIRY AND DUAL PURPOSE CATTLE

No herds were classed as dual purpose. Several farms raising only dairy heifers were oritted as were herds with averages of less than five cows. Also omitted were those who had herds for only a portion of the year.

Table 12 Factors of Cost and	Returns fro	m Dairy Cow	s 1963	
Items	Your Farm	Average of 83 Farms	20 Farms Highest in Butterfat per Cow	20 Farms Lowest in Butterfat per Cow
Pounds of butterfat per cow Pounds of milk per cow % of butterfat in milk		359 9983 3•6	435 11974 3•6	285 7953 3•6
Price rec'd per lb. of B.F. sold ¢ Price rec'd per cwt. milk sold	g yağınlak resembi 49 elç Başılık esser ine değelerin d	91.0 3.29	91.6 3.32	89.7 3.24
Feed per cow, lbs.: Corn Small grain Commercial feeds		2926 600 436	3340 842 656	2481 559 249
Legume hay Other hay		5307 372	53 97 276	920 14499
Total concentrates Total dry roughage Silage		3962 5679 7443	4838 5673 7746	3289 5419 6919
Feed cost per cow: Concentrates Roughages Pasture TOTAL FEED COSTS		\$ 92.98 75.11 9.21 \$177.30	\$115.84 76.09 8.34 \$200.27	\$ 72.71 69.88 10.66 \$153.25
Value of produce per cow: B.F. sales Dairy products used in home Milk to livestock Net increases in value of cows TOTAL VALUE PRODUCED		\$316.36 4.43 5.78 -11.84 \$314.73	\$388.58 3.97 4.43 -15.93 \$381.05	\$245.02 4.72 5.99 -12.32 \$243.41
RETURNS ABOVE FEED COST PER COW	granderson (State & State & State & A	\$137.43	\$180.78	\$ 90.16
RETURNS FOR \$100 OF FEED	general distribution of the Control	\$178.00	\$190,00	\$159.00
Feed cost per lb. B.F. (cents)	sandardina en estado de la composição de	49.8	46.3	53 .9
Number of cows *		26 .2	26.5	24.7

^{*} All dairy cows which have at some time in the past freshened are included in the dairy herd, and affect the average number of cows used in computing this table. There is some variation in the number of months of dry period per cow; however, this variation is small for the majority of farms. Herds of less than five cows were omitted from this study.

Table 12A Factors of Cost and	Returns	from Dairy Co	ows 1963	
Items	Your Farm	Average of 83 Farms	20 Farms Highest Ret. over Feed Cost	20 Farms Lowest Ret. over Feed Cost
Pounds of butterfat per cow Pounds of milk per cow % of butterfat in milk		359 9983 3•6	418 11584 3.6	312 8698 3•6
Price rec'd per lb. B.F. sold (¢) Price rec'd per cwt. milk sold		91.0 #3.29	94.1 \$3.41	90.5 \$3.28
Feed per cow, lbs.: Corn Small grain Commercial feeds		2926 600 436	3007 793 553	3203 418 389
Legume hay Other hay		5308 3 7 2	5608 80	575 5 678
Total concentrates Total dry roughage Silage		3962 5680 7կկ3	4353 5688 8049	4010 6433 7231
Feed cost per cow: Concentrates Roughages Pasture TOTAL FEED COSTS		\$92.99 75.10 9.21 \$177.30	\$102.09 77.20 8.10 \$187.39	\$ 92.88 81.45 8.41 \$182.74
Value of produce per cow: B.F. sales Dairy products used in home Milk to livestock Net increases in value of cows TOTAL VALUE PRODUCED		\$316.35 4.43 5.78 -11.84 \$314.72	\$382.92 4.15 5.83 -9.99 \$382.91	\$271.19 4.20 7.27 -16.25 \$266.41
RETURN ABOVE FEED COST PER COW		\$137.42	\$195.52	\$ 83.67
*RETURN ABOVE FEED COST-ALL DAIRY	******************************	\$110.58	\$163.88	\$ 63.69
RETURNS FOR \$100 OF FEED		\$178.00	\$204.00	\$146.00
Feed cost per lb. B.F. (¢)	***************************************	49.8	44.8	58.6
Number of cows*		26.2	29•2	27•3

^{*} Herds were classified on return over feed cost per animal unit for all dairy cattle in the herd.

Table 13 Feed Costs and Returns from Items	Your Farm	Average of 83 Farms	20 Farms Highest in Butterfat Per Cow	20 1 0 1 1 1 1 1
Feeds per head, lbs.: Concentrates Hay and fodder Silage Whole milk		932 1857 2016 166	1225 1825 1985 132	796 1498 1619 164
Feed cost per head: Concentrates Roughages Milk Pasture		\$ 25.23 23.30 5.46 3.68	\$ 32.99 23.13 4.44 4.06	\$ 21.06 18.71 5.71 3.12
TOTAL FEED COSTS PER HEAD		\$ 57.67	\$ 64.62	\$ 48.60
Net inc. in value of other cattle		\$ 86.79	\$102.30	\$ 75.25
RETURNS ABOVE FEED COST PER HEAD	ng paglang ayang di dan	\$ 29.12	\$ 37.68	\$ 26.65
RETURNS FOR \$100 OF FEED	**************************************	\$151.00	\$158.00	\$147.00
Number of head of other cattle	page a respect to the formal	28.8	28.6	24.2

Table 14 Feed Costs and Returns from	All Dairy	and Dual P	urpose Catt	le 196 <u>3</u>
Table 14 Feed occor did 10 fam.			20 raims	20 Parms
		Average	Highest in	
Items	Your	of 83	Butterfat Per Cow	
	Farm	Farms	rer com	1 GT OOM
Feed per animal unit, lbs.: Concentrates Hay and fodder Silage		3196 4980 5155	3927 5060 6506	2737 4624 926
TOTAL FEED COSTS PER ANIMAL UNITS		\$152.06	\$174.85	\$131.99
Value of produce per animal unit: Dairy products Net increase in value of dairy cat	ct	\$209,66 \$ 52.98	\$262.00 \$ 60.14	\$168.87 \$ 42.34
TOTAL VALUE PRODUCED		\$262.64	\$322.14	\$211.21
RETURNS ABOVE FEED PER ANIMAL UNIT		\$110.58	\$147.29	\$ 79.22
RETURNS PER \$100 OF FEED	-	\$173.00	\$184.00	\$158.00
Animal units of cattle		39•2	40.8	36.8

Table 15 Feed Cost and Returns from Beef Cattle 1963

Items	Your	Average
	farm	of 5 farms
Beef breeding herd:		
Feeds per animal unit - lbs.:		316
Concentrates		3647
Legume Hay	-	2581
Silage Other Hay		475
Other hay		417
Feed cost per animal unit:		
Concentrates	\$ \$	\$ 7.09
Roughages		\$42.74
Pasture	\$	<u>\$14.61</u>
TOTAL FEED COSTS	\$	\$64.44
Value of produce per animal unit:		
Dairy products		and one are any and
Net increase in value of animals		<u>\$83.27</u>
TOTAL VALUE PRODUCED	*************	\$83.27
RETURNS ABOVE FEED COST PER ANIMAL UNIT		\$18.83
RETURNS FOR \$100 OF FEED		\$129.00
TENTOTING FOR \$200 OF THEE		,, ·
Number of cows and herd bulls		41.0
Number of animal units in the herd		40.7
Feeding Cattle: 24 farms		
Feeds per cwt. beef produced - 1bs.: Corn		547
Small grain		18
Commercial feeds	***************************************	48
Ooming Claim 100 db	***************************************	~-
Legume hay		414
Other hay and fodder		.1
		672
Total concentrates	·	613 414
Total hay and fodder		689
Silage Feed cost per cwt. beef produced:		00)
Concentrates	\$	\$13.66
Roughages	T	4.94
Pasture		.40
TOTAL FEED COSTS	\$	\$19.00
Net increase in value of feeders		\$16.17
RETURNS ABOVE FEED COST PER CWT. BEEF PROD.		-2.83
RETURNS FOR \$100 OF FEED	\$	\$85.00
Price paid per cwt. beef bought	\$	\$24.10
Price received for feeder cattle sold		\$20. 49
Number of animal units		62.9 34926
Pounds of beef produced	***************************************	74720

Several cooperators had beef breeding animals and also feeders but sometimes failed to make a distinction. These were not included in the averages. In some cases club calves and project animals represented the only beef produced. Only those producing 8000 pounds or more of beef were included in the feeder cattle operations.

SHEEP

Farm flocks in this area are small and the feed consumption is often impossible to determine. Flocks were carefully screened for reliability. Only six of the twenty reporting sheep were used. Costs and returns are determined on a per ewe basis.

* * * *

16 Feed Costs and Returns from a farm flock of Sheep 196

Table 16 Feed Costs and Returns		of Sheep 196
	Your	Average of
Items	farm	6 farms
Feeds per ewe - lbs.:		
Concentrates		247
Legume hay	The state of the s	708
Other hay	**************************************	
Silage		71
Feed cost per ewe:		
Concentrates	\$	\$ 7.23
Roughages	· · · · · · · · · · · · · · · · · · ·	6.63
Pasture	and the state of t	2.23
TOTAL FEED COSTS	\$	\$ 16.09
Value of produce per head:	*** **********************************	
Wool		\$ 5 . 84**
Net increase in value of sheep		15.82
TOTAL VALUE PRODUCED	\$	\$21,66
RETURNS ABOVE FEED COST PER HEAD	\$	\$ 5.57
RETURNS FOR \$100 OF FEED	\$	\$135.00
Price per cwt. of lambs sold	\$	\$18.15
Price per lb. wool sold (cents)	·	\$.46***
Pounds of wool per sheep sheared		9.9
		80.0
Number of ewes kept for lambing	Augustus de Aumantinatus	97•7
Per cent lamb crop*	****	91•1 5•3
Per cent death loss*	- ARTHUR PROVIDE AREA AREA AREA AREA AREA AREA AREA AR	>•>
Average number of ewes	Spelinis programments of the Programment of the Pro	7 5.6

Lambs which die during month of birth are not included.

Wool return including incentive payment. **

Price per pound excludes incentive payment. ***

CHICKENS

Flocks from 22 farms are included in this report. Only those flocks averaging 200 or more hens, and having a full year's production are included in the averages.

Table 17 Feed Costs and Returns from Chickens 1963*

Items	Your Farm	Averag of 22 Farms	in Return	
Feed per Hen - lbs.: Grain Commercial Feeds Total Concentrates		74 36 110	63 28 91	82 42 124
TOTAL FEED COST PER HEN		\$3.57	\$3.20	\$3.91
Value of Produce per hen: Eggs Sold & Used in the Home Net Increase in Val. of Chickens		\$5.21 46	\$5.56 22	\$4.84 75
TOTAL VALUE PRODUCED		\$4.75	\$5.34	\$4.09
RETURNS ABOVE FEED COST PER HEN		\$1.18	\$2.14	\$.18
RETURNS FOR \$100 OF FEED		\$133.00	\$167.00	\$105.00
Price rec'd per doz. Eggs Sold (¢) Eggs Laid Per Hen		27 . 9 227	28.4 235	28.5 210
Ave. No. Hens on Farm during year		605	880	551
Per cent Death Loss of Hens	*************	7.2%	7.4%	7.5%

^{*} Includes feeds and returns from laying flock and chicks raised.

Table 18 Feed Costs and Returns from Feeder Pigs 1963

Item	Your Farm	Average of 10 Farms
	гати	Smisi
eed per cwt. hogs produced		
Corn		303
Small Grain	***************************************	35
Commercial Feeds		35 51 389
Total Concentrates		380
Miscellaneous (Forage, Buttermilk, Potatoes)		10
		10
eed cost per cwt. hogs produced		\$10.24
Concentrates		_
Miscellaneous		•06
Pasture	-	
TOTAL FEED COSTS		\$10.30
IOTAL TIME COSTS		Ψ±0• 50
et Increase in Value per Cwt. Hogs. Produced		\$11.47
		, • · ·
eturn over Feed Cost per Cwt. Hogs. Produced		\$ 1.17
	and the state of t	
eturn \$100 Feed Fed		\$111.00
		
verage Price Received		\$15.26
ounds of Pork Produced		70024
verage Weight of Pigs Bought		43•3#
		W
verage Price Paid per Pig	Average Schoolsberger windowen	\$11.21
4 0 D 11 T		a
er cent of Death Loss		2.7%

Table 19 Average Prices Used for Feed 1963

Item			Pasture (Per Head Per Month)
Ear Corn Oats, per bushel Alfalfa Hay, per ton Red or Alsike Clover Hay, 1 ton Non-legume, per ton Corn Silage, per ton	\$1.10 .65 \$18.50 15.25 10.00 \$6.00-7.00	Dairy Cows, Bulls Young Cattle Hogs Pigs Ewes Lambs	\$3.00 (Beef \$2.50) 1.50 (" 1.25) .16 .08 .40 .20

Prices were based on average farm prices received (inventory crops) and prices paid for purchased feed. This was arrived at from local market quotations and cooperators purchase and sales records.

When feeds are not corrected for test weight, shelling percentage and water content, analysis reports can be misleading. Estimates of yields and inventories are very important. Instructors and cooperators are advised to reduce forage quantities rather than the value per ton when the quality is inferior.

Table 20 Power and Crop Machinery Expense per Crop Acre 1963

	Your Farm	140 Farms	High 28	Low 28
Crop Acres per farm		184.3	260.5	146.6
Power expense per crop acre Crop expense per crop acre		\$7.31 \$7.64	\$6.79 \$7.78	\$8.38 \$7.91

Labor Earnings Correlated with Excelled Factors

Studies of earnings of farmers in this area show that there are seven major management factors causing variations in earnings among farmers within a given year. These seven factors are (1) crop yields, (2) choice of crops, (3) returns from livestock, (4) amount of livestock, (5) size of business, (6) accomplishments per worker, and (7) control over expenses. The combined or cumulative influence of these seven management factors on earnings is shown in Table 21. The farmer's earnings are determined to a considerable extent by his accomplishments in these seven factors. Low or high price cycles will tend to neutralize the influence of these factors as, for example, 1963 beef prices or 1961 turkey prices.

Table 21

Number of factors in which farmers excelled	Number of farms	Average Labor Earnings					
		\$2000	\$4000	\$6000			
0 or 1	19	XXXXXXXXXXXXXX					
2 or 3	65	XXXXXXXX	XXXXXXXXX		\$4351		
4 or 5	42	XXXXXXXX	XXXXXXXXXXXX	XXXXXXXXXXXXXXX	\$6700		
6	14	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX					

SUMMARY OF FARM EARNINGS BY YEARS

PARM EXPENSE State	Items	1958	1959	1960	1961	1 962	1963
Bear Sect	A STATE OF THE STA						
Beef cattle (including feeders)		• •		\$ 1160	\$ 1602	\$ 1402	\$ 1348
Rogs			4492	4726		5050	5073
Sheep and wool				6958	5585	4645	3813
Horses			5895		8751	8346	7860
Poultry (including turkeys 1958-59-60) 1575 1870 2280 78 L9 25 25 25 25 25 25 25 2	Sheep and wool	121	221	181	147	155	234
Eggs			3		_	***	900
Small grain 1862 11/3 11/68 883 1601 21/37 Small grain 372 195 401 505 507 726 Other crops 1118 975 961 1179 11/91 11/91 11/92 Machine equipment sold & gas tax refund 173 194 172 208 266 281 Income from work off the farm 31/9 357 106 174 228 327 Miscellaneous 11/3 357 106 174 228 327 Miscellaneous 11/3 367 275 275 275 275 Machine equipment sales 23522 221066 2275 2275 2239 Miscellaneous 11/3 387 275 3180 669 275 Machine equipment sales 2252 221066 227121 326 311 368 330 Machine equipment schedule 387 277 326 311 368 330 Machine equipment schedule 387 275 3180 669 2554 Machine equipment schedule 387 275 3180 669 2554 Machine equipment schedule 387 275 3180 669 2564 Machine equipment schedule 387 387 333 326 320 Machine equipment schedule 387 387 333 326 320 Machine equipment schedule 387 387 333 326 320 Machine equipment schedule 388 387 530 537 537 Machine equipment schedule 388 387 530 537 537 Machine equipment schedule 388 387 530 537 536 537 Machine equipment schedule 388 387 530 537 536 257 Machine equipment schedule 388 387 530 537 536 257 Machine equipment schedule 388 387 530 537 536 257 Miscellaneous livestock 624 516 777 568 570 582 Miscellaneous livestock 624 516 777 568 570 582 Miscellaneous livestock 624 516 777 568 570 582 Gas, oll & grease bought (farm share) 381 949 991		1573	1879	2280	78	49	25
Small grain 372			917	1628	989	676	546
Cheer crops	Corn	1862	1473	1468	883	1601	2137
Machine equipment sold & gas tax refund 173 194 172 208 266 281 Income from work off the farm 349 357 406 174 228 327 (1) Total farm sales \$3522 \$2096 \$27006 \$25752 \$25399 \$2539 \$2592 \$2592 \$27006 \$25752 \$25399 \$26320 \$2514 368 330 \$30 \$40 \$27121 \$29127 \$2273 \$2640 \$2514 368 330 \$30 \$30 \$40 \$27121 \$29127 \$2273 \$2640 \$2514 368 330 \$30 \$30 \$30 \$30 \$30 \$30 \$40 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$221 \$2610 \$30 \$30 \$30 \$30 \$30 \$250 \$221 \$2610 \$30 \$37 \$33 \$250 \$221 \$2610 \$320 \$3493 \$3949 \$2366 \$2829 \$2829 \$30		372	495	401	505	507	726
Income from work off the farm 349 357 406 174 228 327	Other crops	1118	975	961	1179	1491	2472
Miscellaneous		173	194	172	208	266	281
Miscellaneous		349	357	406	174	228	327
275		143	237	239	875	983	1478
(2) Increase in farm capital 3891 2754 1795 3180 669 2554 330 (4) Total farm receipts (1)+(2)+(3) 269 271 326 341 368 330 (4) Total farm receipts (1)+(2)+(3) 27682 27121 329127 320 3213 326 320 320 320 320 320 320 320 320 320 320	(1) Total farm sales		\$24096	\$27006	\$25752	\$25399	\$26320
(3) Family living from the farm 269 271 326 341 368 330 (4) Total farm receipts (1)+(2)+(3) \$27682 \$27121 \$29127 \$29127 \$20120 \$		3891	2754	1795			
Total farm receipts (1)+(2)+(3) \$27682 \$27121 \$29127 \$29273 \$26436 \$29201 \$29201 \$29273 \$26436 \$29201 \$29273 \$26436 \$29201 \$29273 \$26436 \$29201 \$29273 \$26436 \$29201 \$29273 \$26436 \$29201 \$29273 \$26436 \$29201 \$29273 \$26436 \$29201 \$29273 \$26436 \$29201 \$29273 \$26436 \$29201 \$29273 \$26436 \$29201 \$29273 \$26436 \$29201 \$29273 \$26436 \$29201 \$29273 \$26436 \$29201 \$29273 \$26436 \$29201 \$29273 \$26436 \$29201 \$29273 \$26436 \$29221 \$29273 \$26436 \$29221 \$29273 \$26436 \$29222 \$29223 \$29233 \$26436 \$29221 \$29273 \$26436 \$29221 \$29273 \$26436 \$29221 \$29233 \$26436 \$29221 \$29233 \$26436 \$29221 \$29233 \$26436 \$29221 \$29233 \$26436 \$29221 \$29233 \$26436 \$29221 \$29233 \$26436 \$29221 \$29233 \$26436 \$29221 \$29233 \$29			271				
Dairy cattle bought Sala	(4) Total farm receipts $(1)+(2)+(3)$	\$27682	\$27121	\$29127	\$29273		
Beef cattle bought (including feeders) 2618 3290 3493 3949 2386 2828 Hogs bought 633 387 530 537 669 590 Sheep bought (including feeders) 43 287 43 17 5 36 Airplane 4 Poultry bought 501 475 720 117 92 57 Miscellaneous livestock 624 546 777 568 570 582 Feed bought 4377 4585 5546 4604 4238 4341 Fertilizers 955 1112 1085 1000 1065 1327 Other crop expenses 645 894 695 699 716 973 Custom work hired 672 593 607 592 629 722 Cas, oil & grease bought (farm share) 931 949 991 951 1010 1079 Repair of mechanical power (farm share) 419 487 533 522 534 595 Repair & upkeep of real estate 468 377 324 332 375 336 Repair & upkeep of livestock equipment 127 97 139 168 158 172 Wages of hired labor 503 606 570 459 348 538 Electricity expense (farm share) 235 257 309 292 300 299 Real estate & personal property taxes 704 838 906 934 1066 1206 General farm expense 290 302 330 293 310 333 (5) Total cash operating expense 1652 1136 1360 1010 1036 1095 (10) Total farm purchases, (5) - (9) 19325 1368 1360 3077 3138 3528 (13) Unpaid family labor 348 380 529 550 638 634 (14) Board furnished hired labor 411 411 51 68 67 66 (15) Total farm expense (10) - (14) 182249 182139 1823190 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182339 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 182309 182359 1823							
Beef cattle bought (including feeders) 2618 3290 3493 3949 2386 2829 Hogs bought (including feeders) 43 387 530 537 669 590 Sheep bought (including feeders) 43 287 43 17 5 36 Airplane		\$ 313	\$ 539	\$ 373	\$ 333	\$ 250	\$ 221
Hogs bought (including feeders) 13 287 13 17 5 36 36 37 36 38 387 33 33	Beef cattle bought (including feeders)	2618					2829
Sheep bought (including feeders) Airplane Poultry bought 501 Airglane Ferdilareous livestock 624 546 777 568 570 Feed bought 624 546 777 568 570 582 Feed bought Fertilizers 955 1112 1085 694 695 699 716 973 Custom work hired 672 672 672 673 Custom work hired 672 672 673 Custom work hired 672 672 673 Custom work hired 672 673 Custom work hired 674 675 Repair & upkeep of real estate 468 877 873 Custom work hired 875 Repair & upkeep of real estate 468 877 873 Custom & upkeep of livestock equipment 876 Repair & upkeep of livestock equipment 877 Repair & upkeep of livestock equipment 878 Repair & upkeep of livestock equipment 879 Real estate & personal property taxes 870 Custom expense 870 Repair & upkeep of livestock equipment 970 Repair & upkeep of		633	387	530	537		590
Airplane		43	287				
Miscellaneous livestock 624 546 777 568 570 582 Feed bought 4377 4585 5546 4604 4238 4341 Fertilizers 955 1112 1085 1000 1065 1327 Other crop expenses 645 894 695 699 716 973 Custom work hired 672 593 607 592 629 722 Gas, oil & grease bought (farm share) 931 949 991 951 1010 1079 Repair of mechanical power (farm share) 419 487 533 522 534 595 Repair & upkeep of crop & gen. machinery 326 354 397 347 357 440 Repair & upkeep of livestock equipment 127 97 139 168 158 172 Wages of hired labor 503 606 570 459 348 538 Electricity expense (farm share) 235 257 309 292							
Size	Poultry bought	501	475	720	117	92	57
Fertilizers 955 1112 1085 1000 1065 1327 Other crop expenses 645 894 695 699 716 973 Custom work hired 672 593 607 592 629 722 628, oil & grease bought (farm share) 931 949 991 951 1010 1079 Repair of mechanical power (farm share) 419 487 533 522 534 595 Repair & upkeep of real estate 468 377 324 332 375 336 Repair & upkeep of crop & gen. machinery 326 354 397 347 357 440 Repair & upkeep of livestock equipment 127 97 139 168 158 172 Wages of hired labor 503 606 570 459 348 538 Electricity expense (farm share) 235 257 309 292 300 299 Real estate & personal property taxes 704 838 906 934 1066 1206 General farm expense 290 302 330 293 310 333 (5) Total cash operating expense \$15384\$ \$16975 \$18368 \$16714 \$15078 \$16680 (6) Cap. purchases, mech. power bought 914 920 697 560 992 693 (7) Crop and general machinery bought 990 1448 1174 995 1090 923 (8) Livestock equipment bought 385 400 628 216 320 423 (9) New real estate improvements 1652 1136 1360 1010 1036 1095 (10) Total farm purchases (5) - (9) \$19325 \$20879 \$22227 \$19495 \$18516 \$19814 (11) Decrease in farm capital 2535 2839 3106 3077 3138 3528 (13) Unpaid family labor 348 380 529 550 638 634 (14) Board furnished hired labor 41 41 51 68 67 66 (15) Total farm expense (10) - (14) \$22249 \$24139 \$25913 \$23190 \$22359 \$24042		624		777	568	570	
Fertilizers 955 1112 1085 1000 1065 1327 Other crop expenses 645 894 695 699 716 973 Custom work hired 672 593 607 592 629 722 Gas, cil & grease bought (farm share) 931 949 991 951 1010 1079 Repair of mechanical power (farm share) 419 487 533 522 534 595 Repair & upkeep of real estate 468 377 324 332 375 336 Repair & upkeep of crop & gen. machinery 326 354 397 347 357 440 Repair & upkeep of livestock equipment 127 97 139 168 158 172 Wages of hired labor 503 606 570 459 348 538 Electricity expense (farm share) 235 257 309 292 300 299 Real estate & personal property taxes 704 838 906 <td></td> <td>4377</td> <td>4585</td> <td>5546</td> <td>4604</td> <td>4238</td> <td>4341</td>		4377	4585	5546	4604	4238	4341
Custom work hired Gas, oil & grease bought (farm share) Repair of mechanical power (farm share) Repair & upkeep of real estate Repair & upkeep of crop & gen. machinery Repair & upkeep of livestock equipment Repair & upkeep of crop & gen. machinery Repair & upkeep of crop & gen. machinery Repair & upkeep of crop & gen. machinery Repair & upkeep of real estate Repair & upkeep of repair Repair & upkeep of real estate Repair & upkeep of repair Repair & upkeep of real estate Repair & upkeep of real estate Repair & upkeep of repair Repair & upkeep of repair Repair & upkeep of real estate Repair & upkeep of real estate Repair & upkeep of real		955	1112	1085	1000		
Custom work hired Gas, oil & grease bought (farm share) Gas, oil & grease bought (farm share) Repair of mechanical power (farm share) Repair & upkeep of real estate Repair & upkeep of crop & gen. machinery Repair & upkeep of livestock equipment Repair & upkeep of real estate Repair & upkeep of repair Repair & upkeep of repair Repair & upkeep of real estate Repair & upkeep of repair Repair & upkeep of repair Repair & upkeep of repair Repair & upkeep of real estate Repair & sall association Repair & sall association Repair & sall assoc	Other crop expenses	645	894	695	699	716	973
Gas, oil & grease bought (farm share) 931 949 991 951 1010 1079 Repair of mechanical power (farm share) 419 487 533 522 534 595 Repair & upkeep of real estate 468 377 324 332 375 336 Repair & upkeep of crop & gen. machinery 326 354 397 347 357 440 Repair & upkeep of livestock equipment 127 97 139 168 158 172 Wages of hired labor 503 606 570 459 348 538 Electricity expense (farm share) 235 257 309 292 300 299 Real estate & personal property taxes 704 838 906 934 1066 1206 General farm expense 290 302 330 293 310 333 (5) Total cash operating expense 315384 316975 \$18368 \$16714 \$15078 \$16680 (6) Cap. purchases, mech. power bought 914 920 697 560 992 693 (7) Crop and general machinery bought 990 1448 1174 995 1090 923 (8) Livestock equipment bought 385 400 628 216 320 423 (9) New real estate improvements 1652 1136 1360 1010 1036 1095 (10) Total farm purchases (5) - (9) \$19325 \$20879 \$22227 \$19495 \$18516 \$19814 (11) Decrease in farm capital 2535 2839 3106 3077 3138 3528 (13) Unpaid family labor 348 380 529 550 638 634 (14) Board furnished hired labor 41 41 51 68 67 (15) Total farm expense (10) - (14) \$22249 \$24139 \$25913 \$23190 \$22359 \$24042	Custom work hired	672	593	607	592	629	
Repair & upkeep of real estate		931	949	991	951	1010	1079
Repair & upkeep of real estate		419	487	533	522	534	595
Repair & upkeep of crop & gen. machinery 326 354 397 347 357 440 Repair & upkeep of livestock equipment 127 97 139 168 158 172 Wages of hired labor 503 606 570 459 348 538 Electricity expense (farm share) 235 257 309 292 300 299 Real estate & personal property taxes 704 838 906 934 1066 1206 General farm expense 290 302 330 293 310 333 (5) Total cash operating expense \$15384 \$16975 \$18368 \$16714 \$15078 \$16680 (6) Cap. purchases, mech. power bought 914 920 697 560 992 693 (7) Crop and general machinery bought 990 1448 1174 995 1090 923 (8) Livestock equipment bought 385 400 628 216 320 423 (9) New real estate improvements 1652 1136 1360 1010 1036 1095 (10) Total farm purchases (5) - (9) \$19325 \$20879 \$22227 \$19495 \$18516 \$19814 (12) Interest on farm capital 2535 2839 3106 3077 3138 3528 (13) Unpaid family labor 348 380 529 550 638 634 (14) Board furnished hired labor 41 41 51 68 67 66 (15) Total farm expense (10) - (14) \$22249 \$24139 \$25913 \$23190 \$22359 \$224042	Repair & upkeep of real estate	468	377	324	332		
Repair & upkeep of livestock equipment Wages of hired labor 503 606 570 459 348 538 Electricity expense (farm share) 235 257 309 292 300 299 Real estate & personal property taxes 704 838 906 934 1066 1206 General farm expense 290 302 330 293 310 333 (5) Total cash operating expense (6) Cap. purchases, mech. power bought (7) Crop and general machinery bought (8) Livestock equipment bought 385 400 628 216 320 423 (9) New real estate improvements 1652 1136 1360 1010 1036 1095 (10) Total farm purchases (5) - (9) \$19325 \$20879 \$22227 \$19495 \$18516 \$19814 (12) Interest on farm capital 2535 2839 3106 3077 3138 3528 (13) Unpaid family labor 348 380 529 550 638 634 (14) Board furnished hired labor 41 41 51 68 67 66 (15) Total farm expense (10) - (14) \$22249 \$24139 \$25913 \$23190 \$22359 \$24042	Repair & upkeep of crop & gen. machiner	y 326	354			357	
Wages of hired labor 503 606 570 459 348 538 Electricity expense (farm share) 235 257 309 292 300 299 Real estate & personal property taxes 704 838 906 934 1066 1206 General farm expense 290 302 330 293 310 333 (5) Total cash operating expense \$15384 \$16975 \$18368 \$16714 \$15078 \$16680 (6) Cap. purchases, mech. power bought 914 920 697 560 992 693 (7) Crop and general machinery bought 990 1448 1174 995 1090 923 (8) Livestock equipment bought 385 400 628 216 320 423 (9) New real estate improvements 1652 1136 1360 1010 1036 1095 (10) Total farm purchases (5) - (9) \$19325 \$20879 \$22227 \$19495 \$18516 \$19814 (12) Interest on farm capital 2535 2839 3106 3077 3138 3528	Repair & upkeep of livestock equipment	127	97	139			
Electricity expense (farm share) Real estate & personal property taxes General farm expense (5) Total cash operating expense (6) Cap. purchases, mech. power bought (7) Crop and general machinery bought (8) Livestock equipment bought (9) New real estate improvements (10) Total farm purchases (5) - (9) (11) Decrease in farm capital (12) Interest on farm capital (13) Unpaid family labor (15) Total farm expense (16) Earn share (17) Robert (18) Base (18) Base (19) Base (19	•	503	606	570	459		
Real estate & personal property taxes General farm expense (5) Total cash operating expense (6) Cap. purchases, mech. power bought (7) Crop and general machinery bought (8) Livestock equipment bought (9) New real estate improvements (10) Total farm purchases (5) - (9) (11) Decrease in farm capital (12) Interest on farm capital (13) Unpaid family labor (14) Board furnished hired labor (15) Total farm expense (10) Total farm expense (10) Total farm purchases (10) Total farm capital (11) Decrease in farm capital (12) Interest on farm capital (13) Unpaid family labor (14) Board furnished hired labor (15) Total farm expense (16) 290 302 330 293 310 333 3568 816714 \$15078 \$16680 992 693 1090 923 1136 1360 1010 1036 1095 189814 2535 2839 3106 3077 3138 3528 3528 380 529 550 638 634 66 67 66 67 66 67 67 68 67 68 67 68 67 68 68 67 68 68 67 68 68 67 68 68 67 68 68 67 68 68 68 68 68 68 68 68 68 68 68 68 68		235	257	309	292	300	
General farm expense 290 302 330 293 310 333 (5) Total cash operating expense (6) Cap. purchases, mech. power bought (7) Crop and general machinery bought (8) Livestock equipment bought (8) Livestock equipment bought (9) New real estate improvements (10) Total farm purchases (5) - (9) (11) Decrease in farm capital (12) Interest on farm capital (13) Unpaid family labor (14) Board furnished hired labor (15) Total farm expense (10) - (14) (16) S22249 (17) \$230 \$230 \$230 \$230 \$230 \$230 \$230 \$230		704	838	906	934	1066	
(5) Total cash operating expense (6) Cap. purchases, mech. power bought (7) Crop and general machinery bought (8) Livestock equipment bought (9) New real estate improvements (10) Total farm purchases (5) - (9) (11) Decrease in farm capital (12) Interest on farm capital (13) Unpaid family labor (14) Board furnished hired labor (15) Total farm expense (10) - (14) (15) Total farm expense (1			302	330	293	310	333
(7) Crop and general machinery bought 990 1448 1174 995 1090 923 (8) Livestock equipment bought 385 400 628 216 320 423 (9) New real estate improvements 1652 1136 1360 1010 1036 1095 (10) Total farm purchases (5) - (9) \$19325 \$20879 \$22227 \$19495 \$18516 \$19814 (11) Decrease in farm capital 2535 2839 3106 3077 3138 3528 (13) Unpaid family labor 348 380 529 550 638 634 (14) Board furnished hired labor 41 41 51 68 67 66 (15) Total farm expense (10) - (14) \$22249 \$24139 \$25913 \$23190 \$22359 \$24042		\$15384	\$16975	\$18368		\$15078	\$16680
(7) Crop and general machinery bought 990 1448 1174 995 1090 923 (8) Livestock equipment bought 385 400 628 216 320 423 (9) New real estate improvements 1652 1136 1360 1010 1036 1095 (10) Total farm purchases (5) - (9) \$19325 \$20879 \$22227 \$19495 \$18516 \$19814 (11) Decrease in farm capital 2535 2839 3106 3077 3138 3528 (13) Unpaid family labor 348 380 529 550 638 634 (14) Board furnished hired labor 41 41 51 68 67 66 (15) Total farm expense (10) - (14) \$22249 \$24139 \$25913 \$23190 \$22359 \$24042	(6) Cap. purchases, mech. power bought	914	920	697	560	992	693
(8) Livestock equipment bought 385 400 628 216 320 423 (9) New real estate improvements 1652 1136 1360 1010 1036 1095 (10) Total farm purchases (5) - (9) \$19325 \$20879 \$22227 \$19495 \$18516 \$19814 (11) Decrease in farm capital 2535 2839 3106 3077 3138 3528 (13) Unpaid family labor 348 380 529 550 638 634 (14) Board furnished hired labor 41 41 51 68 67 66 (15) Total farm expense (10) - (14) \$22249 \$24139 \$25913 \$23190 \$22359 \$24042		990	1448	1174	995		
(9) New real estate improvements 1652 1136 1360 1010 1036 1095 (10) Total farm purchases (5) - (9) \$19325 \$20879 \$2227 \$19495 \$18516 \$19814 (11) Decrease in farm capital 2535 2839 3106 3077 3138 3528 (13) Unpaid family labor 348 380 529 550 638 634 (14) Board furnished hired labor 41 41 51 68 67 66 (15) Total farm expense (10) - (14) \$22249 \$24139 \$25913 \$23190 \$22359 \$24042			400				
(10) Total farm purchases (5) - (9) \$19325 \$20879 \$22227 \$19495 \$18516 \$19814 (11) Decrease in farm capital 2535 2839 3106 3077 3138 3528 (13) Unpaid family labor 348 380 529 550 638 634 (14) Board furnished hired labor 41 41 51 68 67 66 (15) Total farm expense (10) - (14) \$22249 \$24139 \$25913 \$23190 \$22359 \$24042			1136	1360			
(11) Decrease in farm capital (12) Interest on farm capital (13) Unpaid family labor (14) Board furnished hired labor (15) Total farm expense (10) - (14) (16) Decrease in farm capital (17) Section 2014 (18) Board furnished hired labor (19) Section 2014 (19) Sectio		\$19325	\$20879	\$22227	\$19495		
(13) Unpaid family labor 348 380 529 550 638 634 (14) Board furnished hired labor 41 41 51 68 67 66 (15) Total farm expense (10) - (14) \$22249 \$24139 \$25913 \$23190 \$22359 \$24042							
(13) Unpaid family labor 348 380 529 550 638 634 (14) Board furnished hired labor 41 41 51 68 67 66 (15) Total farm expense (10) - (14) \$22249 \$24139 \$25913 \$23190 \$22359 \$24042				3106	3077	31.38	3528
(14) Board furnished hired labor 41 41 51 68 67 66 (15) Total farm expense (10) - (14) \$22249 \$24139 \$25913 \$23190 \$22359 \$24042				529			
(15) Total farm expense (10) - (14) \$22249 \$24139 \$25913 \$23190 \$22359 \$24042			41				
				\$25913	\$23190	\$22359	\$24042
	(10) Labor earnings (4) - (15)	5433	2982	3214	6083	4077	5162

AREA COORDINATORS

