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# Southeastern South Dakota Farm Record Summary 1946 Fourth Annual Report

C. R. Hoglund

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# 1946

# FOURTH ANNUAL REPORT

THIS BOOK DOES

# SOUTHEASTERN SOUTH DAKOTA FARM RECORD SUMMARY

Agricultural Economics Pamphlet No. 23 May 1947

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Agricultural Experiment Station in cooperation with Agricultural Extension Service South Dakota State College Brookings, South Dakota

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# FOURTH ANNUAL REPORT OF THE SOUTHEASTERN

# SOUTH DAKOTA FARM RECORD PROJECT, 1946

# Prepared by C. R. Hoglund

This is the fourth annual report of the farm record study started by the Experiment Station in 1943. Farm record cooperators are located in two areas of the state; namely, the Southeastern and North Central Areas. A summary of the results of the North Central area are included in a separate pamphlet.

The analysis of the farm record data and the preparation of the report was carried out under the direction of C. R. Hoglund of the Experiment Station. C. A. Hustrulid, Farm Management Fieldman, made most of the field calls on the cooperating farmers during the year and assisted in the preparation of the material for this report. Arthur Anderson and Lyle Bender, Extension Specialists, assisted in the organization and education work in the field. The following is a list of counties covered in the study, and the county agents who actively cooperated in the project.

County	Agent	Number of records
Clay	Raymond Venard	2
Lake	Clarence Schladweiler	3
Lincoln	Kenneth Ostroot	2
Minnehaha	Glenn Schrader	10
Moody	C. M. Culhane	7

The farm record cooperators were visited one or two times during the year, and again at the end of the year when the records were closed. The cooperators kept records which included cash receipts and expenses, beginning and end of year inventories of feed and seed, machinery and equipment, buildings and land and livestock, crop record, livestock record and a record of farm produce and fuel used by the household. Additional information was obtained on crop and livestock practices used, crop varieties, feed fed to productive livestock, and on family and hired labor.

Operator's labor earnings have been calculated on a full owner basis in order to more nearly compare all farms on an equal basis. However, each cooperator received an earnings statement on the basis of his actual tenure situation. Summary of farm inventories and earnings are prepared as though the operator was a full owner except for table 13 in which a comparison is made between owners, part-owners, and tenants for earnings and various farm organization and management efficiency factors.

Earnings for most of the cooperating farmers were high during 1946. The removal of price controls during the latter part of 1946 affected some farmers more than others. Cattle feeders and hog producers who were in position to sell livestock after prices were sharply increased were greatly benefited. Uncertainty as to future prices for livestock and feed caused some feeders to reduce their operations and thus lower their earnings during 1946.

Increased operating expenses during 1946 were more than offset by increases in prices farmers received for livestock and crops. Most farmers will be faced with continued high operating costs in the future. These high operating costs will probably continue high for some time after farm prices drop. Careful planning of future farm operations will help farmers to meet lower prices.

#### Climatic Conditions

A late spring freeze plus below normal rainfall in April and May contributed materially to a reduction in small grain yields in 1946. Corn growth was retarded considerably during late summer by insufficient moisture. However, heavier than normal rainfall in the fall months prolonged the growing season to such an extent that much of the corn did not mature properly. Corn yields were very favorable, but the quality was considerably reduced by a too high moisture content. Total precipitation for the year varied considerably for different parts of the area. Total precipitation at Vermillion was reported as about one inch below normal with precipitation at Wentworth nine inches above normal.

Table 1. Monthly and Annual Precipitation and Departure from Normal, Flandreau, Sioux Falls, Vermillion, and Wentworth Weather Stations, 1946

	Fland	Flandreau		Falls	Vei	million	Wentworth		
Month	1946	Depar-	1946	Depar- ture	1946	Depar- ture	1946	Depar- ture	
January	.23	-0.25	0.05	-0.60	0.30	-0.25	0.06	-0.46	
February	1.08	+0.54	0.73	+0.01	0.51	-0.27	0.65	+0.15	
March	1.76	+0.74	1.58	+0.29	1.30	+0.07	3.22	+2.19	
April	0.63	-1.68	0.73	-1.87	0,91	-1.61	0.66	-1.53	
May	1.77	-1.45	2.29	-1.49	5.78	12.27	1.51	-1.83	
June	5.37	41.33	4.39	+0.09	3.27	-0.64	5.39	+1.35	
July	4.32	+1.73	2.97	-0.16	0.66	-2,52	5.84	+2.94	
August	0.79	-2.14	2.45	-0.76	11.33	-1.11	1.34	-1.70	
September	4.97	+2,55	5.21	12.57	3.39	+0.23	5.69	+3.10	
October	5.00	+3.57	3.99	+2.45	3.35	+1.78	5.19	+3.68	
November	1.13	40.18	1.58	+0.52	2.50	+1.41	2.04	+1.28	
December	0.22	1-0.36	0.29	-0.47	0.29	-0.40	0.41	-0.14	
1946 Total	27.27	1 +4.76	26.26	+0.58	24.09	-1,04	32.00	+9.03	
1945 Total	26.71	+4.20	25.37	-0.31	22.73	-2,40	23.33	+0.36	
1944 Total	29.19	+6.68	32.21	+6.53	37.81	+12.68	33.16	+10.19	
1943 Total	28.63	+5.51	23.45	-2.97	23.53	-1.93	28.69	+ 4.95	

# Definition of Terms and Measures Used

- 1. <u>Operator's labor earnings</u> is the measure of financial success used in this report. It is a measure of the relative financial success of a farmer and represents the returns for his year's work (including family living from the farm) above all farm expenses, and a deduction for the value of unpaid family labor and an interest charge for the use of farm capital.
- 2. <u>Productive man work units</u> is a measure of size of business used in this report. A work unit represents the amount of work that a farm worker can do in a 10-hour day working at average efficiency. For example, it requires about 10 hours of man labor to produce an acre of corn and 140 hours to care for a milk cow for a year. Thus an acre of corn would represent 1.0 work units and a milk cow 14.0 work units.

Crop	S		Livestock					
Item			Item	Per		of units		
Corn, grain	Acre	1.0	Milk cows	COW		14.0		
Corn, hogged off	11	.6	Other dairy cattle	animal	unit	4.0		
Corn and cane silage		1.5	Beef cows	COW		4.0		
Sorghum	11	1.0	Other beef cattle	animal	unit	4.0		
Soybeans	II	1.0	Bulls	head		4.0		
Potatoes	11	4.0	Litter	litter		4.0		
Small grain		.7	Other hogs	head		.5		
Alfalfa hay	11	1.0	Ewes	head		.5		
Other tame hay	11	.7	Other sheep	head		.2		
Wild hay		.5	Hens	100		20.0		
Annual pasture	11	.3	Chickens raised	100		4.0		

The work unit standards used in this report are shown in the following tables:

- 3. Work unit per worker is a measure of the efficient use of labor on a farm.
- 4. <u>Livestock increase</u> is the value of gross livestock sales less purchases and plus or minus changes in inventory values of livestock from the beginning to the end of the year.
- 5. <u>Crop yield index</u> is a comparison of the yield per acre of all crops on a given farm or group of farms with the average yield of all crops for the entire group of farms studied. For example, a farm with a crop yield index of 105 means that the average yield for this farm is 5 percent greater than the average.
- 6. <u>Crop selection index</u> is a measure of the success of a farmer or group of farmers in choosing high value crops. Crops were rated A, B, C and D. All of the acres in <u>A</u> crops, one-half of acres in <u>B</u> crops and one-fourth of acres in <u>C</u> crops were used in calculating the percent of cropland in high return crops. The group average was then considered 100 with variations compared to this average. The following crops were rated as <u>A</u> crops: alfalfa, alfalfa and grass mixtures, and corn. The following were rated as <u>B</u> crops: silage, soybeans, flax, and oats. <u>C</u> crops were wheat, barley, annual hay and pasture, and sweet clover and mixed legume hay and pasture.
- 7. <u>Livestock returns per 0100 feed fed</u> is a measure of the efficiency in converting feed into livestock products. It is obtained by dividing the value of the net livestock increase by the value of feed fed to all productive livestock during the year. This figure is multiplied by 100.
- 8. <u>Part-owner</u> is a farmer who owns part of the land he operates and rents the rest.

Item	Your Farm	Farm Inventori Average of 24 farms	6 most profitable farms	6 least profitable farms
	Denimin	g of Year		
Horses and mules	S	\$ 160	\$ 182	\$ 127
Productive livestock (total)	¥	7,535	9,780	5,554
Cattle		5,338	6,796	3,573
Hogs		1,526	2,734	1,324
Sheep		483	68	431
Foultry		188	182	226
Feed and seed		4,655	6,119	3,949
Mach. and equipment (total)	and the second second	3,552	4,988	3,124
Power machinery		1,190	1,716	1,108
Crop and gen. mach.	· · · · · · · · · · · · · · · · · · ·	1,979	2,786	1,640
Livestock equipment		383	486	376
Improvements (farm)**		4,255	4,962	3,471
Land		16,625	16,910	14,910
Total Farm Capital	\$	\$36,782	\$42,941	\$31,135
	End	of Year		
Horses and mules	\$	\$ 132	\$ 152	\$ 100
Productive livestock (total)	· · · · · · · · · · · · · · · · · · ·	7,120	11,220	5,402
Cattle	and the second	4,776	6,860	3,445
Hogs		1,609	2,526	1,519
Sheep		566	1,654	227
Poultry		169	180	211
Feed and seed		5,921	8,359	3,612
Mach. and equipment (total)		3,632	4,806	3,004
Power machinery		1,196	1,593	1,003
Crop and gen. mach.		2,047	2,708	1,641
Livestock equipment		389	505	360
Improvements (farm)**		4,127	4,681	3,292
Land		16,625	16,910	14,910
Total Farm Capital	ŝ	\$37,557	\$46,128	\$30,320

\*These include value of both owner's and operator's share of farm capital investment.

\*\*Does not include value of dwelling.

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	lour Farm	Average of 24 farms	6 most profitable farms	6 least profitable farms
Corn for grain		108 /	ים מכר	82.3
Sorghum forage		108.4	137.7	1.7
Corn and cane silage				
Soybeans		6.9	9.8	4.2
Total Row Crops		123.0	151.6	93.4
Nheat		8.5	24.2	
Dats		76.2	109.8	54.3
Barley		5.0	8.3	
Rye-grain		9.2		
Flax	<del></del>			9.2
Total Small Grain		99.2	142.3	63.5
Alfalfa hay		15.7	19.0	10.2
Other tame hay	·····	4.1	1.7	3.5
Total Tame Hay		19.8	20.7	13.7
Rotation Pasture		15.1	23.7	10.0
Total Tame Hay & Past.		34.9	4 hick	23.7
Idle and Fallow				
Total Tillable Land Native hay		257.1	338.3	180.6
Native pasture		5.3	11.5	5.3
Farmsteads, roads, etc.		30.5	38.2	34.8
Total Acres Operated		19.4	21.0	15.8
of farm in cropland		312.3	409.0	236.5
of cropland in row crops		81.9	81.8	76.2
of cropland in sm. grain		49.2	45.5	52.4
of cropland in hay & past.		37.0	40.4	36.7
or or optand in may a past		13.8	14.1	10.9

Table 4. Crop Yield Summary, 1946									
		Average	6 most	6 least					
Item	Your	of 24	profitable	profitable					
	Farm	farms	farms	farms					
Corn for grain		39.3	43.0	40.6					
Soybeans		18.7	11.6	18.2					
Wheat		15.3	12.7						
Oats		27.9	26.3	25.6					
Barley		23.0	16.0						
Rye		31.0							
Flax		8.4		6.0					
Alfalfa hay		1.7	1.4	1.6					
Other tame hay		1.7	2.0	2.0					
Sorghum forage		3.0	3.0	2.0					
Silage		8.8	9.5	7.3					
Native hay		1.3	1.3	1.1					

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Table 3. Crop Acreage Summary, 1946

Table 5. Livestock Summary, 1946									
Item	Your Farm	Average of 24 farms	6 most profitable farms	6 least profitable farms					
Horses		3.1	4.0	1.9					
Beef cows Beef heifers Other beef cattle Steers		4.6 2.5 7.0 22.7	2.1 1.2 3.5 34.7	6.3 5.3 11.2 4.8					
Milk cows Dairy heife <b>rs</b> Other dairy cattle		7.2 3.1 3.0	12.3 6.6 5.4	6.8 1.5 1.8					
Bulls		.7	1.0	.6					
Ewes Other sheep		11.4 33.2	4.1 62.9	11.7 18.3					
Litters of pigs Hens and pullets		11 154	19 188	8 196					
Total Units Prod. Livest	ock*	46.1	64.2	39.3					

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\*A unit of productive livestock is equal to one mature cow, 2 yearlings, 7 sheep, 14 lambs, 5 sows, 10 pigs, and 100 hens.

Table 6.	Farm	Produce	and	Fuel	Furnished	to	Household,	1946

	Server Street	Qua	ntity		Value					
				6 least			6 most	6 least		
Item		Average	profit-	-profit-		Average	profit	profit-		
	Your	of 24	able	able	Your	of 24	able	able		
and the second	Farm	farms	farms	farms	Farm	farms	farms	farms		
Whole milk, qts.		1416	1472	1272	Ş	\$106.20	\$110.40	\$ 95.4		
Cream, qts.		134	117	124		67.00	58.50	62.0		
Farm-made butter, 1b	s.	47	49	15		31.02	32.34	9.9		
Eggs, doz.		171	253	180		53.01	78.43	55.8		
Poultry, 1bs.		1:49	233	65		34.27	53.59	14.9		
Cattle, 1bs.		728	672	867		116.48	107.52	138.7		
Hogs, 1bs.		384	640	483		65.28	108.80	82.1		
Sheep, 1bs.		44	150			6.60	22.50			
Potatoes, bu.		8	12	9		12.80	19.20	14.4		
Vegetables						44.79	40.83	43.3		
Fruits						3.83	1.67	6.6		
Farm Fuel						9.87	19.83	10.6		
Total Value					\$	\$551.15	\$653.61	\$533.9		

Table 7. Summary of Item	Your Farm	Average of 24 farms	6 most profitable farms	6 least profitable farms
FARM RECEIPTS				
Hogs Cattle Dairy Products Eggs Poultry (includes turkeys) Sheep and wool Horses Crops Machinery & equipment Farm program payments Income from work off farm Miscellaneous	\$	\$ 4,180 5,991 1,107 520 255 1,988 33 3,066 53 111 350 67	\$ 7,488 7,861 2,203 529 261 4,978 5 3,662 96 192 136 70	\$ 2,659 2,717 1,094 724 312 846 17 2,691 54 86 90 46
<ol> <li>(1) TOTAL FARM SALES</li> <li>(2) Increase in inventories</li> <li>(3) Family living from farm</li> </ol>	\$	\$17,721 809 551	\$27,481 3,188 653	\$11,336 533
<pre>(4) TOTAL FARM RECEIPTS (sum 1-3) FARM EXPENSES</pre>	\$	\$19,081	\$31,322	\$11,869
Auto (farm share) Power, mach., & equip. (upkeep) Power, mach., & equip. (new) Farm improvements (upkeep) Farm improvements (new) Hired labor Crop expenses Feed bought Livestock bought Other livestock expenses Taxes Insurance Miscellaneous farm expenses	\$	\$ 300 972 573 181 206 642 733 1,536 3,742 342 328 109 123	\$ 312 1,160 596 181 447 1,509 715 3,489 7,528 544 486 141 167	\$ 253 724 343 178 22 426 568 993 1,489 233 205 77 113
<ul> <li>(5) TOTAL FARM PURCHASES</li> <li>(6) Decrease in inventories</li> <li>(7) Board furnished hired labor</li> <li>(8) Unpaid family labor (\$100 per mo.)</li> <li>(9) Interest on farm capital (5%)</li> </ul>	\$	\$ 9,787 118 262 1,863	\$17,275 293 450 2,241	\$ 5,624 816 58 217 1,536
(10) TOTAL FARM EXPENSES (sum 5-9)	\$	\$12,030	\$20,259	\$ 8,251
<pre>(11) OPERATOR'S LABOR EARNINGS (4)-(10) (12) RETURNS TO CAPITAL &amp; FAMILY LABOR       (sum 8+9+11)</pre>	\$ <u></u> \$	\$ 7,051 \$ 9,176	\$11,063 \$13,754	\$ 3,618 \$ 5,371

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## WHY FARM EARNINGS VARY

Favorable prices and high orop and livestock production contributed to extremely high operator's labor earnings in the Southeastern area during 1946. However, earnings on some farms were fairly low. Operator's labor earnings ranged from a low of less than \$3,200 to a high of over\$12,000. These variations in earnings were due chiefly to differences in size of business, labor efficiency, crop yields, crop selection, livestock selection and livestock feeding efficiency.

#### Size of Business Important

Size of business as measured in terms of total work units was found to be one of the most important factors affecting earnings. An adequate size of business is necessary to provide a good level of living. A small size farm business may provide an adequate farm income if it is very efficiently operated. However, the size of business will need to be large enough to provide full time productive work for the farm family if high earnings are to be attained. Operator's labor earnings averaged \$4,966 on the farms with less than 440 work units compared with earnings of about \$9,640 on the group of farms with 800 or more work units. The size of farm business can be increased by keeping more livestock, by farming more land or by shifting to more intensive crop and livestock enterprises. The relationship of size of business to farm earnings is shown in table 8.

Table 8.	Relation	of Siz	e of	E Business	to	Farm	Earnings	

Number of work units		No. of	Average operators
Range	Average	farms	labor earnings
Under 440	370	6	\$4,966
440 - 799	531	12	\$6,043
800 & over	880	6	\$9,640

# Use Labor More Efficiently

Farmers who plan their work carefully and use the most economical methods in producing crops and livestock usually have higher earnings than other farmers. Work units per worker ranged from less than 200 to over 400 for the 24 farms studied. It is difficult to utilize labor efficiently on the inadequate sized unit. Labor efficiency can be increased by enlarging the size of business, by distributing labor peaks throughout the season and by the use of labor saving equipment and practices. There is considerable opportunity on most farms to increase the amount of work accomplished per worker. Careful planning of field and chore work and the possible elimination of unessential tasks will increase labor efficiency without lowering production.

Table 9. Relation of	Amount of Work	Performed Per Worker	to Farm Earnings
Work units per worker		No. of	Average operator 's
Range	Average	farms	labor earnings
Under 300	247	6	\$6,634
300 - 419	350	10	\$6,382
420 & over	464	8	\$7,191
		and the same damage day where a state damage and should be should be a state of the second	and the second

#### High Crop Yields Lower Costs

High yields tend to lower the per bushel or ton cost of crops. Farm earnings are usually higher on farms on which yields are high. This is particularly true when prices are high. High yields are dependent on the use of adapted seed varieties and recommended cropping practices, including a regular rotation. The use of alfalfa or other recommended legumes helps boost yields. The use of commercial fertilizer may be profitably used on many farms. The relation of crop yields to earnings is shown in table 10.

Table 1	.O. Relation of	Crop Yields to Farm Earnings	3
Percent crop yields were of average of all 2: farms		No. of	Average operator's
Range	Average	farms	labor earnings
Under 85	78	6	\$6,486
85 - 114	100	12	\$5,952
115 & over	125	6	\$8,470

# Crop Selection Important

Economical livestock production and high earnings are dependent on the kind of crops a farmer produces. It is important that farmers grow the feed crops that produce the greatest quantity of nutrients per acre. The selection of crops that bring high cash returns per acre is also important. The choice of crops should include alfalfa and other legumes which maintain soil fertility and provide high protein feed.

	Table 11. Relation of Crop	Selection to Farm	Earnings
Percent sel			
high return	crops were of		
	all 24 farms	No. of	Average operator's
Range	Average	farms	labor earnings
Under 95	90	6	\$6,172
95 - 104	100	12	\$6,242
105 & over	110	6	\$8,203

## High Livestock Production Needed

The amount and kinds of productive livestock kept on a farm has an important effect on farm earnings. This is particularly true in an area in which crops are marketed chiefly through livestock. The farm resources on the farm and the managerial ability of the operator should determine the kinds and amounts of livestock kept. The selection of livestock enterprises that help distribute the labor load throughout the year needs consideration.

Table 12. Relation of Amount of Productive Livestock to Farm Earning	-	Table	12.	Relation	of	Amount	of	Productive	Livestock	to	Farm	Earnin	g	S
--	---	-------	-----	----------	----	--------	----	------------	-----------	----	------	--------	---	---

Total animal units		No. of	Average operator's
Range	Average	farms	labor earnings
Under 30	18	6	\$5,571
30 - 59	43	12	\$6,418
60 & over	81	6	\$8,453

## Efficient Livestock Feeding Needs Attention

Efficient livestock production has contributed greatly to high earnings in recent years. Since such a large proportion of the crops are marketed through livestock in this area, it is extremely important that feed be efficiently used. Increased cost of feed makes it necessary for feeders to watch costs very carefully. Livestock returns per \$100 feed consumed varied greatly for the 24 farms studied. On a few farms returns were actually less than the cost of the feed. High production per unit, sanitation, balanced rations, adequate pasture, the right kind of shelter plus good management are all important factors contributing to efficient livestock production. Efficient livestock feeding was an extremely important factor in affecting earnings, as shown in table 13.

Table 13	. Relation of Livestock	Feeding Efficiency	to Farm Earnings
Livestock return		No. of	Average operator'
fed to product Range	Average	No. of farms	labor earnings
Under 145	126	5	\$4511
145 - 199	163	11	\$6688
200 & over	288	7	\$8155

# RELATIONSHIP OF EFFICIENCY IN FARMING TO EARNINGS

Farmers who excel in many efficiency factors usually have higher earnings than do those who rank low in most or all of these factors. Some farmers show good management efficiency and high returns in some parts of the farm business which is offset by poor results in other parts of the business. Table 14 illustrates the importance of an efficiently organized and operated farm business.

Table 14.	Relation of Number of	factors Above Average	to farm Larnings
No. of factors	No. of	Your	Average operator's
above average	farms	farm	labor earnings
0-1	5	\$	\$4,786
2	5	\$	\$5,476
3	6	ŝ	\$5,922
4	5	ŝ	\$8,272
5-6	3	\$	\$10,993

Farmers should study table 15 on page 11, table 16 on page 13 and the thermometer chart on page 12 to determine the weak and strong points in their farm business.

Acres rented       175.1       238.5       83.4         Acres rented       137.2       170.5       153.1         Total operated       312.3       409.0       236.5         Capital Investment       312.3       409.0       236.5         Productive livestock       7,328       10,500       5,478         Productive livestock       7,328       5,064       3,178         Power and machinery       3,738       5,064       3,178         Power and machinery       3,738       5,064       3,178         Power and machinery       3,738       5,064       3,178         Rate earned on investment       21.2       28.2       13.7         Size of Ausiness       210       289       158         On crops       210       289       158         Off farm       35       13       8         Labor Utilization       1.7       2.3       1.4         Work units per worker       362       374       334         Crop acres per worker       154       149       129         Animal units per worker       36630       38,970       5,290         Crop diad in oces in crops       257       338       181	Item	Your Farm	Average of 24 farms	6 most profitable farms	6 least profitable farms
Acres rented       137.2       170.5       153.1         Total operated       312.3       409.0       236.5         Capital Investment       7,328       10,500       5,478         Total capital managed       7,328       10,500       5,478         Productive livestock       7,328       10,500       5,478         Power and machinery       3,738       5,064       3,178         Dower and machinery       21.2       28.2       13.7         Size of Business       733       476       290         On crops       210       289       158         On livestock       333       476       290         Off farm       35       13       8         Labor Utilization       1.7       2.3       1.4         Work units per worker       154       149       129         Aminal units per worker       29       31       28         Livestock increase per worker       154       149       129         Aminal units per worker       100       108       95         *Crop yield index       100       105       97         // copland is of farm       81.9       81.9       81.9         % cro	Operator's Labor Earnings	<u>\$</u>	\$ 7,051	¢11,063	\$ 3,618
Total operated       312.3       409.0       236.5         Capital Investment       Total capital managed       0       7,328       10,500       5,478         Productive livestock       7,328       10,500       5,478       7,328       10,500       5,478         Power and machinery       37,338       5,064       3,178       1.78       1.72       28.2       13.78         Bate earned on investment       21.2       28.2       13.78       1.78       456         On crops       210       229       158       0.11       1.76       2.99       1.8         Off farm       35       1.3       8       1.7       2.3       1.4         *Nork units per worker       1.54       1.49       1.29       1.4         *Nork units per worker       2.9       31       28       1.4       1.4       1.9       1.29         Animal units per worker       1.62       374       3.44       1.29       1.29       1.4         *Nore of workers       1.7       2.3       1.4       1.4       1.4       1.9       1.2         *Mork units per worker       1.62       374       3.4       1.4       1.9       1.4	Acres owned				
Capital Investment       6       637,175       644,489       630,727         Productive livestock       7,328       10,500       5,478         Power and machinery       3,738       5,064       3,178         Power and machinery       3,738       5,064       3,178         Power and machinery       21.2       28.2       13.7         Size of Business       778       778       456         On crops       21.0       229       158         On fram       35       13       8         Labor Utilization       1.7       2.3       1.4         Work units per worker       362       374       334         Crop acres per worker       354       149       129         Animal units per worker       354       149       129         Animal units per worker       362       374       334         Crop acres per worker       353,970       5,290         Crop schection index       100       108       95         KCrop yield index       100       108       95         Yorop schection index       100       108       95         Y cropland in small grain       37.0       40.4       36.7					
Total capital managed       0       037,175       044,489       030,727         Productive livestock       7,328       10,500       5,478         Productive livestock       3,738       5,064       3,178         Rate earned on investment       21.2       28.2       13.7         Size of Business       21.2       28.2       13.7         *Work units (total)       578       778       456         On crops       210       289       158         On fram       333       476       290         Off farm       35       13       8         Labor Utilization       1.7       2.3       1.4         Work units per worker       362       374       334         Crop acres per worker       154       149       129         Animal units per worker       29       31       28         Livestock increase per worker       66380       38,970       75,290         Crop organization and Efficiency       100       108       95         *Crop yield index       100       108       95         *Crop selection index       100       105       97         ý cropland in small grain       37.0       40.4 <td< td=""><td>Total operated</td><td></td><td>312.3</td><td>409.0</td><td>236.5</td></td<>	Total operated		312.3	409.0	236.5
Productive livestock       7,328       10,500       5,478         Power and machinery       3,738       5,064       3,173         Pate earned on investment       21.2       28.2       13.7         Size of Business       21.2       28.2       13.7         Size of Business       21.2       28.2       13.7         Size of Business       210       289       158         On crops       210       289       158         On livestock       333       476       290         Off farm       35       13       8         Labor Utilization       Number of workers       1.7       2.3       1.4         *Work units per worker       362       374       334         Crop acres per worker       36380       38,970       75,290         Crop Organization and Efficiency       100       105       97         Y cropland is of farm       81.9       81.8       76.2         % Crop solection index       100       105       97         Y cropland in small grain       81.9       81.8       76.2         % cropland in hay & pasture       13.3       14.1       10.9         Number of beef cows       6       3	Capital Investment				Acc Don
Power and machinery       3,738       5,064       9,178         Rate earned on investment       21.2       28.2       13.7         Size of Business       21.2       28.2       13.7         Work units (total)       578       773       456         On crops       210       289       158         On livestock       333       476       290         Off farm       35       13       8         Labor Utilization       1.7       2.3       1.4         Number of workers       1.7       2.3       1.4         Work units per worker       362       374       334         Crop acres per worker       154       149       129         Animal units per worker       86380       38,970       75,290         Crop Organization and Efficiency       7638       181       128         *Crop selection index       100       108       95         *Crop selection index       100       105       97         \$ cropland in small grain       37.0       40.4       36.7         \$ cropland in hay & pasture       13.3       14.1       10.9         Livestock Org. and Efficiency       8       3       17		Ş			
Rate earned on investment       21.2       28.2       13.7         Size of Business       *Work units (total)       578       778       456         On crops       210       289       153         On crops       333       476       290         Off farm       35       13       8         Labor Utilization       1.7       2.3       1.4         Work units per worker       362       374       334         Crop acres per worker       29       31       28         Livestock increase per worker       29       31       28         Livestock increase per worker       29       31       28         Crop Organization and Efficiency       700       100       108       95         *Crop solection index       100       105       97       7       cropland is of farm       81.9       81.8       76.2         ½ cropland in row crops       49.2       45.5       52.4       10.9       10.9       10.9         Livestock Org. and Efficiency       13.3       14.1       10.9       10.4       36.7         ½ cropland in hay & pasture       13.3       14.1       10.9       13.8       14.1       10.9 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
Size of Business       578       778       456         Work units (total)       578       778       456         On crops       210       289       158         On livestock       333       476       290         Off farm       35       13       8         Labor Utilization					
*Work units (total)       578       778       456         On crops       210       289       158         On fram       333       476       290         Off farm       35       13       8         Labor Utilization	Rate earned on investment		21.2	28.2	13.7
On crops       210       289       158         On livestock       333       476       290         Off farm       35       13       8         Labor Utilization       35       13       8         Number of workers       1.7       2.3       1.4         *Work units per worker       362       374       334         Crop acres per worker       154       149       129         Animal units per worker       29       31       28         Livestock increase per worker       29       31       28         Livestock increase per worker       66380       38,970       75,290         Crop organization and Efficiency       100       108       95         *Crop yield index       100       105       97         * cropland is of farm       81.9       81.8       76.2         % cropland in row crops       49.2       45.5       52.4         % cropland in mall grain       37.0       40.4       36.7         % cropland in hay & pasture       13.3       14.1       10.9         Livestock Org. and Efficiency       6       12       5         Number of beef cows       6       12       5 <t< td=""><td>Size of Business</td><td></td><td></td><td>and</td><td>1.71</td></t<>	Size of Business			and	1.71
On livestock       333       476       290         Off farm       35       13       8         Labor Utilization       1.7       2.3       1.4         Number of workers       362       374       334         Crop ares per worker       362       374       334         Crop ares per worker       362       374       334         Crop ares per worker       29       31       28         Livestock increase per worker       29       31       28         Livestock increase per worker       29       38       181         *Crop organization and Efficiency       70       75,290         Total acres in crops       257       338       181         *Crop solection index       100       105       97         *Cropland is of farm       81.9       81.8       76.2         ½ cropland in row crops       49.2       45.5       52.4         ½ cropland in small grain       37.0       40.4       36.7         ½ cropland in hay & pasture       13.8       14.1       10.9         Livestock Org. and Efficiency       6       3       10         Number of beef cows       6       12       5 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
Off farm       35       13       8         Labor Utilization       Number of workers       1.7       2.3       1.4         *Work units per worker       362       374       334         Crop acres per worker       154       149       129         Animal units per worker       29       31       28         Livestock increase per worker       6380       38,970       75,290         Crop Organization and Efficiency       738       181         *Crop yield index       100       103       95         *Crop selection index       100       105       97         / cropland is of farm       81.9       81.8       76.2         ½ cropland in small grain       37.0       40.4       36.7         ½ cropland in hay & pasture       13.8       14.1       10.9         Livestock Org. and Efficiency       6       3       10         Number of beef cows       6       12       5         Number of hilk cows       6       12       5         Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Total prod. livestock units       428       276					
Labor Utilization         Number of workers       1.7       2.3       1.4         *Work units per worker       362       374       334         Crop acres per worker       1.54       149       129         Animal units per worker       29       31       28         Livestock increase per worker       \$6380       \$8,970       \$5,290         Crop Organization and Efficiency       \$6380       \$8,970       \$5,290         Crop Selection index       100       108       95         *Crop yield index       100       105       97         *cropland is of farm       81.9       81.8       76.2         ½ cropland in row crops       49.2       45.5       52.4         ½ cropland in small grain       37.0       40.4       36.7         ½ cropland in hay & pasture       13.3       14.1       10.9         Livestock Org. and Efficiency       6       12       5         Number of beef cows       6       12       5         Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Livestock ret. per (100 feed       3135       3214       3148					
Number of workers       1.7       2.3       1.4         *Mork units per worker       362       374       334         Crop acres per worker       1.54       149       129         Animal units per worker       29       31       28         Livestock increase per worker       \$6380       \$8,970       \$5,290         Crop Organization and Efficiency       \$6380       \$8,970       \$5,290         Total acres in crops       \$6380       \$8,970       \$5,290         *Crop yield index       100       108       95         *Crop selection index       100       105       97         ? cropland is of farm       \$1,9       \$1,8       76.2         % cropland in row crops       49.2       45.5       52.4         % cropland in hay & pasture       13.3       14.1       10.9         Livestock Org. and Efficiency       13.3       14.1       10.9         Number of beef cows       6       12       5         Number of milk cows       6       12       5         Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Livestock ret. per \$100 feed       \$185<	oll larm	·	35	13	8
*Work units per worker       362       374       334         Grop acres per worker       154       149       129         Animal units per worker       29       31       28         Livestock increase per worker       \$6380       \$8,970       \$5,290         Crop Organization and Efficiency       \$6380       \$8,970       \$5,290         Crop Organization and Efficiency       \$6380       \$8,970       \$5,290         Crop Selection index       100       108       95         *Crop selection index       100       105       97         ? cropland is of farm       \$1,9       \$1,8       76.2         % cropland in row crops       49.2       45.5       52.4         % cropland in small grain       37.0       40.4       36.7         % cropland in hay & pasture       13.3       14.1       10.9         Livestock Org. and Efficiency       6       3       10         Number of beef cows       6       12       5         Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Livestock ret. per (100 feed       145       214       148         Pounds butterfat p	Labor Utilization			0.0	
Crop acres per worker       154       149       129         Animal units per worker       29       31       28         Livestock increase per worker       \$6380       \$8,970       \$5,290         Crop Organization and Efficiency       \$6380       \$8,970       \$5,290         Crop Organization and Efficiency       \$6380       \$8,970       \$5,290         Crop Sclection index       100       108       95         *Crop sclection index       100       105       97         ; cropland is of farm       \$1.9       \$1.8       76.2         ½ cropland in row crops       49.2       45.5       52.4         ½ cropland in small grain       37.0       40.4       36.7         ½ cropland in hay & pasture       13.3       14.1       10.9         Livestock Org. and Efficiency       6       3       10         Number of beef cows       6       12       5         Number of hens       154       188       196         *Total prod. livestock units       154       188       196         *Total prod. livestock units       154       188       196         *Total prod. livestock units       154       188       190         *Livestock					
Animal units per worker       29       31       28         Livestock increase per worker       \$6380       \$8,970       \$5,290         Crop Organization and Efficiency       100       108       95         Total acres in crops       257       338       181         *Crop yield index       100       108       95         *Crop selection index       100       105       97         ; cropland is of farm       81.9       81.8       76.2         ½ cropland in row crops       49.2       45.5       52.4         ½ cropland in small grain       37.0       40.4       36.7         ½ cropland in hay & pasture       13.3       14.1       10.9         Livestock Org. and Efficiency       6       3       10         Number of beef cows       6       12       5         Number of litters of pigs       11       19       8         Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Livestock ret. per \$100 feed       5185       \$214       5148         Pounds butterfat per cow       243       276       258         Eggs laid per hen       160					
Livestock increase per worker       (6380)       (8,970)       (5,290)         Crop Organization and Efficiency       100       108       95         *Crop yield index       100       108       95         *Crop selection index       100       105       97         ; cropland is of farm       81.9       81.8       76.2         ½ cropland in row crops       49.2       45.5       52.4         ½ cropland in small grain       37.0       40.4       36.7         ½ cropland in hay & pasture       13.3       14.1       10.9         Livestock Org. and Efficiency       6       3       10         Number of beef cows       6       12       5         Number of fulk cows       11       19       8         Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Livestock ret. per (100 feed       3185       6214       4148         Pounds butterfat per cow       248       276       258         Eggs laid per hen       160       134       190       190         Pigs saved per litter       6.3       6.4       6.6         Power invest. per crop acre <td></td> <td></td> <td></td> <td></td> <td></td>					
Crop Organization and Efficiency         Total acres in crops       257       338       181         *Crop yield index       100       108       95         *Crop solection index       100       105       97         ' cropland is of farm       81.9       81.8       76.2         ' cropland in row crops       49.2       45.5       52.4         ' cropland in small grain       37.0       40.4       36.7         ' cropland in hay & pasture       13.3       14.1       10.9         Livestock Org. and Efficiency       6       3       10         Number of beef cows       6       12       5         Number of milk cows       6       12       5         Number of hens       11       19       8         Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Livestock ret. per \100 feed       3185       5214       41.48         Pounds butterfat per cow       248       276       258         Eggs laid per hen       160       134       190       190         Pigs saved per litter       6.3       6.4       6.6         Power		45			
Total acres in crops       257       338       181         *Crop yield index       100       108       95         *Crop selection index       100       105       97         / cropland is of farm       81.9       81.8       76.2         Ø cropland in row crops       49.2       45.5       52.4         Ø cropland in small grain       37.0       40.4       36.7         Ø cropland in hay & pasture       13.3       14.1       10.9         Livestock Org. and Efficiency       6       12       5         Number of beef cows       6       12       5         Number of filters of pigs       11       19       8         Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Livestock ret. per \$100 feed       3185       \$214       \$148         Pounds butterfat per cow       248       276       258         Eggs laid per hen       160       134       190         Pigs saved per litter       6.3       6.4       6.6         Power, Mach. & Ecuip.       \$5.63       \$5.72       \$6.95	LIVESCOCK INCLEASE DEL WORKEL	Ŷ	0000	00,970	\$7,890
*Crop yield index       100       108       95         *Crop selection index       100       105       97         / cropland is of farm       81.9       81.8       76.2         Ø cropland in row crops       49.2       45.5       52.4         Ø cropland in small grain       37.0       40.4       36.7         Ø cropland in hay & pasture       13.8       14.1       10.9         Livestock Org. and Efficiency       6       3       10         Number of beef cows       6       12       5         Number of milk cows       6       12       5         Number of hens       11       19       8         Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Livestock ret. per 0100 feed       0135       0214       148         Pounds butterfat per cow       248       276       258         Eggs laid per hen       160       134       190         Pigs saved per litter       6.3       6.4       6.6         Power, Mach. & Equip.       6.3       6.4       6.9	Crop Organization and Efficiency		050	220	101
*Crop selection index       100       105       97         / cropland is of farm       81.9       81.8       76.2         / cropland in row crops       49.2       45.5       52.4         / cropland in small grain       37.0       40.4       36.7         / cropland in hay & pasture       13.3       14.1       10.9         Livestock Org. and Efficiency       6       3       10         Number of beef cows       6       12       5         Number of milk cows       6       12       5         Number of ewes       8       3       17         Number of hens       11       19       8         *Total prod. livestock units       46       64       39         *Livestock ret. per 0100 feed       0135       0214       148         Pounds butterfat per cow       248       276       258         Eggs laid per hen       160       134       190         Pigs saved per litter       6.3       6.4       6.6         Power invest. per crop acre       0       05.63       05.72       06.95					
1       cropland is of farm       81.9       81.8       76.2         2       cropland in row crops       49.2       45.5       52.4         2       cropland in small grain       37.0       40.4       36.7         2       cropland in hay & pasture       13.3       14.1       10.9         Livestock Org. and Efficiency       6       3       10         Number of beef cows       6       12       5         Number of milk cows       6       12       5         Number of litters of pigs       11       19       8         Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Livestock ret. per 0100 feed       5185       5214       58         Eggs laid per hen       160       134       190         Pigs saved per litter       6.3       6.4       6.6         Power invest. per crop acre       55.63       55.72       56.95					
% cropland in row crops       49.2       45.5       52.4         % cropland in small grain       37.0       40.4       36.7         % cropland in hay & pasture       13.3       14.1       10.9         Livestock Org. and Efficiency       6       3       10         Number of beef cows       6       12       5         Number of milk cows       6       12       5         Number of ewes       8       3       17         Number of hens       11       19       8         Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Livestock ret. per \$100 feed       \$185       \$214       *148         Pounds butterfat per cow       248       276       258         Eggs laid per hen       160       134       190         Pigs saved per litter       6.3       6.4       6.6         Power, Mach. & Equip.       \$5.63       \$5.72       \$6.95					
% cropland in small grain       37.0       40.4       36.7         % cropland in hay & pasture       13.8       14.1       10.9         Livestock Org. and Efficiency       6       3       10         Number of beef cows       6       3       10         Number of milk cows       6       12       5         Number of milk cows       6       12       5         Number of ewes       8       3       17         Number of hens       11       19       8         Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Livestock ret. per \$100 feed       \$185       \$214       \$148         Pounds butterfat per cow       248       276       258         Eggs laid per hen       160       134       190         Pigs saved per litter       6.3       6.4       6.6         Power, Mach. & Equip.       \$5.63       \$5.72       \$6.95					
\$ cropland in hay & pasture       13.8       14.1       10.9         Livestock Org. and Efficiency       6       3       10         Number of beef cows       6       12       5         Number of milk cows       6       12       5         Number of ewes       8       3       17         Number of litters of pigs       11       19       8         Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Livestock ret. per \$100 feed       \$185       \$214       \$148         Pounds butterfat per cow       248       276       258         Eggs laid per hen       160       134       190         Pigs saved per litter       6.3       6.4       6.6         Power, Mach. & Equip.       \$5.63       \$5.72       \$6.95					
Livestock Org. and Efficiency         Number of beef cows       6       3       10         Number of milk cows       6       12       5         Number of milk cows       6       12       5         Number of ewes       8       3       17         Number of litters of pigs       11       19       8         Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Livestock ret. per \$100 feed       \$185       \$214       \$148         Pounds butterfat per cow       248       276       258         Eggs laid per hen       160       134       190         Pigs saved per litter       6.3       6.4       6.6         Power, Mach. & Equip.       \$5.63       \$5.72       \$6.95					
Number of beef cows       6       3       10         Number of milk cows       6       12       5         Number of ewes       8       3       17         Number of litters of pigs       11       19       8         Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Livestock ret. per \$100 feed       \$185       \$214       \$148         Pounds butterfat per cow       248       276       258         Eggs laid per hen       160       134       190         Pigs saved per litter       6.3       6.4       6.6         Power, Mach. & Equip.       \$5.63       \$5.72       \$6.95	& cropiand in may a pascure	*	13.0	14.1	10.9
Number of milk cows       6       12       5         Number of ewes       8       3       17         Number of litters of pigs       11       19       8         Number of hens       11       19       8         Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Livestock ret. per \$100 feed       \$185       \$214       \$148         Pounds butterfat per cow       248       276       258         Eggs laid per hen       160       134       190         Pigs saved per litter       6.3       6.4       6.6         Power, Mach. & Equip.       \$5.63       \$5.72       \$6.95	Livestock Org. and Efficiency		,		
Number of ewes8317Number of litters of pigs11198Number of hens154188196*Total prod. livestock units466439*Livestock ret. per \$100 feed\$185\$214\$148Pounds butterfat per cow248276258Eggs laid per hen160134190Pigs saved per litter6.36.46.6Power, Mach. & Equip.6.3\$5.72\$6.95			6		
Number of litters of pigs       11       19       8         Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Livestock ret. per \$100 feed       \$185       \$214       \$148         Pounds butterfat per cow       248       276       258         Eggs laid per hen       160       134       190         Pigs saved per litter       6.3       6.4       6.6         Power, Mach. & Equip.       6.563       \$5.72       \$6.95					
Number of hens       154       188       196         *Total prod. livestock units       46       64       39         *Livestock ret. per \$100 feed       \$185       \$214       \$148         Pounds butterfat per cow       248       276       258         Eggs laid per hen       160       134       190         Pigs saved per litter       6.3       6.4       6.6         Power, Mach. & Equip.       55.63       \$5.72       \$6.95					
*Total prod. livestock units       46       64       39         *Livestock ret. per \$100 feed       \$185       \$214       \$148         Pounds butterfat per cow       248       276       258         Eggs laid per hen       160       134       190         Pigs saved per litter       6.3       6.4       6.6         Power, Mach. & Equip.       \$5.63       \$5.72       \$6.95					
*Livestock ret. per \$100 feed       \$185       \$214       \$148         Pounds butterfat per cow       248       276       258         Eggs laid per hen       160       134       190         Pigs saved per litter       6.3       6.4       6.6         Power, Mach. & Equip.       \$5.63       \$5.72       \$6.95					
Pounds butterfat per cow248276258Eggs laid per hen160134190Pigs saved per litter6.36.46.6Power, Mach. & Equip. Power invest. per crop acre\$5.63\$5.72					
Eggs laid per hen       160       134       190         Pigs saved per litter       6.3       6.4       6.6         Power, Mach. & Equip.       6.5       5.63       5.72       6.95					
Pigs saved per litter6.36.46.6Power, Mach. & Equip. Power invest. per crop acre\$5.63\$5.72\$6.95					
Power invest. per crop acre \$ \$5.63 \$5.72 \$6.95					
Power invest. per crop acre \$ \$5.63 \$5.72 \$6.95	Power Mach & Fauin				
		ŝ	\$5 63	65 72	46.05
	Crop mach. inv. per crop acre	Å.	\$8.54	9.13	÷9.97

\*Measures used thermometer chart on page 13.

Compare your standing in regards to the measures of farm organization and efficiency with the average for the group shown between the dotted lines. The figures from the bottom to the top of the seven efficiency bars show the range from the least efficient to the most efficient farms.

Oper. Labor Earn- ings	Size of Business (Work Units)	Work Units Per Worker	Crop Yield Index	Crop Selection Index	Total Animal Units	Livestock Returns per \$100 feed
\$12,000	1,050	560	129	129	95	\$320
11,500	1,000	540	126	126	90	305
11,000	950	520	123	123	85	290 =
10,500	900	500	120	120	80	285
10,000	850	480	117	117	75	270
9,500	800	460	114	114	70	255
9,000	750	440	111	111	65	240
8,500	700	420	108	108	60	225
8,000	650	400	105	105	55	210
7,500	- 600	380	- 102-	102-	- 50-	195
7,000	- 550		99	99	45- =	180
6,500	500	340	96	96	40	165
6,000	450	320	93	93	35	150
5,500	400	300	90 E	90	30	135
5,000	350	280	87	87	25 =	120
4,500	300	260	84	84	20	105
4,000	250	240	81	81	15	90
3,500	200	220	78 =	78	10	75
E		E	E	E	E_	
(		THER	MOMETER CHAP	T	$\cup$	

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:Livestock :Increase	\$14,517 12,632 8,647 8,547 7,454 7,454 7,174 6,653 6,653 6,653	\$6,380	6,248 6,148 5,930 5,732 5,732 7,488 4,668 4,586 4,586 1,993 3,775 2,891 1,993
<pre>iency :Eggs :1 c:laid : tper hen:</pre>	238 233 131 132 133 133 133 133 133 133 133	160	22 22 22 23 23 27 27 27 27 27 27 27 27 27 27 27 27 27
Livestock Efficiency : Pigs :Eggs F. :weaned per:laid r cow: litter :per	8 C C C C C O O O O O O O O O O O O O O	6.3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
n : Livest B.F. : feed:per cow:	260 267 267 267 266 267 266 267 266 267 266 267 266 267 266 266	248	233 224 198 198 1138 115 115 105
: Return : per tons:\$100 fe	\$367 335 335 335 335 335 233 272 272 272 272 272 272 272 272 272	\$185	17 17 17 17 17 17 17 17 17 17 17 17 17 1
1 1.	2.3	1.7	10500
Crop Efficiency Yields orn bu.:Oats bu.:Alf	28.0 28.0 28.0 28.0	27.9	27.4 26.3 26.3 25.65 23.55 23.55 19.9 18.0
		39.3	35.7 31.8 31.7 31.7 25.0 24.0
h. :Work : Crop : h. :units :Crop : per : per :yield: acre:worker:Index:Corn	101 102 103 103 104 105 105 105 105 105 105 105 105 105 105	100	888888888
:Work :units : per e:workei	491 454 421 421 403	362	367 356 356 357 333 337 356 337 357 337 356 337 356 337 356 357 356 357 356 356 356 356 356 356 356 356 356 356
:Power :Work Acres:& Mach. :units per :Inv. per : per Farm :Crop acre:worke	\$ 6.93 7.55 7.55 8.31 8.31 8.31 11.55 11.55 11.55 11.55 11.55 11.55 11.55 11.55 11.55 11.55 11.55 11.55 11.55	\$14.17	15.78 16.13 17.09 22.71 25.82 35.65
: Rower Acres:& Mach per :Inv. p Farm :Crop a	621 580 393 320 320	372	304 242 242 242 242 242 242 242 242 242 2
: Oper. : Acre Labor : per Farmings:Farm	\$12,314 11,877 11,877 11,247 11,036 9,805 7,939 7,147	\$ 7,051	6,564 6,564 6,383 6,383 6,383 6,383 6,383 5,319 5,708 5,709 5,709 5,709 5,709 5,709 5,709 5,709 5,709 5,709 5,709 5,709 5,7090
12	8323	AVERAGE	LINCOLN MEMORIAL LIBRARY South Dakota State College, Brookings, South Dako

Item	Under 199 acres	240 Acres	320 Acres	400 Acres	440 & over Acres
perator's Labor Earnings	\$ 4,982	\$ 5,888	\$ 5,049	\$ 7,980	\$10,507
lumber of farms	4	8	***** 4	. 4	4
cres owned	80	95.5	184.0		257.8
cres rented	80	122.1	124.3	58.8	290.8
Total operated	160	217.6	308.3	396.6	548.6
apital Investment		16			
Total capital managed	\$24,168	\$29,369	\$35,989	\$43,400	\$60,753
Productive livestock	\$ 5,803	\$ 5,592	\$ 5,477		
Power and machinery	\$ 2,634	\$ 3.101	\$ 3,024	\$ 5,188	\$ 5,377
Rate earned on investment	20.9		16.5	26.1	20.6
ize of Business					
Work units (total)	405.7	492.5	528.9	682.4	865.2
On crops		153.2	207.6		389.6
On livestock		308.4	318.3		459.1
Off farm	23.7		3.0	104.4	16.5
abor Utilization					
Number of workers	1.1	1.3	1.5	2.0	2.0
Work units per worker	369		353	341	2.9 298
Crop acres per worker	126	139	166	165	161
Animal units per worker	34.1	28.9	27.8		26.4
Livestock increase per worker		\$7,286	\$6,072		*6,631
rop Organization & Efficiency					
Total acres in crops	139	181	249	330	466
Crop yield index	103	102	83	106	400 96
Crop selection Index	100	102	99	95	100
% cropland is of farm	86.6	77.8	80.6		
% cropland in row crops	49.6		50.2		
% cropland in small grain	37.0		35.2		
% cropland in hay & past.	13.4		14.6		
ivestock Org. & Efficiency					
Number of beef cows	1.5	3.9	9.8	9.3	7 5
Number of milk cows	3.5				
Number of ewes	5.5		4.8		
Number of litters of pigs	9.3	.9	23.5		
Number of hens		9.3	9.8		
Total prod. livestock units	149 37	174	209		
Livestock returns per \$100 feed	\$252	38	42		
Pounds butterfat per cow	268	\$179 272	\$184		
Eggs laid per hen	159	154	257		
Pigs saved per litter	5.9	6.3	208 7.0		
won Moch & Fault					
ower, Mach. & Equip.	8 r 00	\$ 6.94	\$ 4.1	4 \$ 5.30	6 \$ 4.44
Power inv. per crop acre	5 h K.	in m LI/			

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	Your		Part-	
Item	Farm	Tenants	Owners	Owners
Operator's Labor Earnings*	8	\$ 5,904	° 7,288	* 6,909
Number of farms		8	9	7
Acres owned			225	254
Acres rented		274	167	
Total operated		274	392	254
Capital Investment				
Total capital owned**	\$	\$19,207	37,907	\$30,584
Productive livestock	3	\$ 5,269	\$10,068	\$6,156
Power and Machinery	<u>\$</u>	\$ 3,709	\$ 3,843	*3,634
Rate earned on investment		28.1	21.1	22.7
Size of Business				
Work units (total)		462	650	618
on crops		189	262	168
on livestock		257	342	407
off farm		16	46	43
abor Utilization				
Number of workers		1.4	2.1	1.4
Work units per worker		330	310	441
Crop acres per worker		168	153	142
Animal units per worker		21	29	34
Livestock increase per work	er \$	\$ 5,441	\$ 6,292	\$ 7,570
rop Organization & Efficienc	<u>y</u>			
Total acres in crops		235	322	199
Crop yield index		98	108	93
Crop selection index		105	99	96
% cropland is of farm		85.6	82.3	77.3
% cropland in row crops		52.0	47.7	47.9
% cropland in small grain		35.4	39.8	33.7
% cropland in hay & past.		1.2.6	12.5	18.4
ivestock Org. & Efficiency				
Number of beef cows		3	8	4
Number of milk cows		3 5 5 7	6	9
Number of ewes		5	11	5
Number of litters of pigs		- 2월 2일 : 2월 2일 : 2월 2일 <b>: 2월 2일 : 2월 2</b> 일 : 2월 2일 : 2월 2	10	12
Number of hens		108	127	222
Total prod. livestock units	Contraction of the second s	29	60	48
Livestock ret. per \$100 fee	d 5	\$204	Ö164	.*214
Pounds butterfat per cow		295	231	251
Eggs laid per hen		143	156	167
Pigs saved per litter		6.1	6.5	6.3
ower, Mach. & Equip.				
Power invest. per crop acre	Bendeling and an other states of the second	\$6.73	\$4.46	\$ 5.87
Crop mach. inv. per_crop ac	res	\$8.61	\$6.21	\$11.44

\*Operator's labor earnings are the actual figures for these farms and have not been adjusted to a full owner basis for tenants and part-owners. \*\*Includes only the operator's share of farm capital. ,

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Table 19. Four Year Summary of Farm Earnings

14 Farms With Continuous Records, 1943-46

Item	1943	1944	1945	1946
Total investment managed Rate earned on investment	\$ 27,335 21.1	\$ 29,332 24.5	\$ 31,619 15.6	\$ 34,540 23.1
FARM RECEIPTS				
Hogs Cattle Dairy Products Eggs Poultry (includes turkeys) Sheep and wool Horses Crops Machinery & equipment Farm program payments Income from work off farm Miscellaneous (1) TOTAL FARM SALES	<pre>\$ 4,094 4,824 745 620 192 41 2,648 111 </pre>	<ul> <li>\$ 4,055</li> <li>4,521</li> <li>927</li> <li>690</li> <li>266</li> <li>118</li> <li>13</li> <li>2,901</li> <li>93</li> <li>155</li> <li>376</li> <li>105</li> <li>\$ 14,220</li> </ul>	<pre>\$ 2,887 4,619 1,020 730 225 178 19 2,643 89 75 517 174 \$ 13,176</pre>	<ul> <li>\$ 5,021</li> <li>4,497</li> <li>1,499</li> <li>569</li> <li>258</li> <li>601</li> <li>3,481</li> <li>36</li> <li>140</li> <li>410</li> <li>80</li> <li>\$ 16,592</li> </ul>
<ul><li>(2) Increase in inventories</li><li>(3) Family living from farm</li></ul>	872 502	626 522	1,175 506	999 482
(4) TOTAL FARM RECEIPTS (sum 1-3) FARM EXPENSES	\$ 15,332	\$ 15,368	\$ 14,857	\$ 18,073
Auto (farm share) Power, mach., & equip. (upkeep) Power, mach., & equip. (new) Farm improvements (upkeep) Farm improvements (new) Hired labor Crop expenses Feed bought Livestock bought Other livestock expenses Taxes Insurance Miscellaneous farm expenses	\$ 129 563 531 167 213 511 450 2,586 3,005 206 244 68 90	<pre>\$ 168 871 490 199 131 527 478 1,528 2,034 233 264 60 97</pre>	\$ 221 913 721 204 183 521 544 1,221 3,065 224 284 64 101	<ul> <li>\$ 311</li> <li>1,041</li> <li>589</li> <li>243</li> <li>318</li> <li>595</li> <li>763</li> <li>1,505</li> <li>2,227</li> <li>361</li> <li>315</li> <li>142</li> <li>127</li> </ul>
<ul> <li>(5) TOTAL FARM PURCHASES</li> <li>(6) Decrease in inventories</li> <li>(7) Board furnished hired labor</li> <li>(8) Unpaid family labor</li> <li>(9) Interest on farm capital (5%)</li> </ul>	232	\$ 7,080 96 307 1,467	\$ 8,266 77 257 1,574	\$ 8,537 117 264 1,727
(10) TOTAL FARM EXPENSES (sum 5-9	9)\$10,534	\$ 8,950	\$ 10,174	\$ 10,645
(11) OPERATOR'S LABOR EARNINGS (4-10)	\$ 4,798	\$ 6,418	\$ 4,683	\$ 7,428
(12) RETURNS TO CAPITAL & FAMILY LABOR (sum 8+9+11)	\$ 6,397	\$ 8,192	\$ 6,514	\$ 9,419

Item	1943	1944	1945	1946
Acres owned	129.	177	173	172
Acres rented	145	109	123	138
Total operated	274	286	296	310
Crop Organization		AF 1	<b>A</b> 4 <b>A</b>	01.0
% cropland is of farm	83.9	85.4	84.0	84.9
% cropland in row crops	41.6	47.4	45.6	48.8
% cropland in small grain .	39.2	35.4	37.3	37.5
% cropland in hay & past.	19.2	15.2	16.6	13.7
Crop Yields Per Acre			24.0	20 0
Corn, bu.	39.3	53.6	34.9	38.7
Oats, bu.	41.4	46.3	45.6	29.2
Barley, bu.	20.9			30.
Flax, bu.	10.2	8.7	5.1	12.2
Alfalfa, tons	2.4	2.5	2.3	1.5
Livestock Org. and Efficiency	1. A.		-	
Number of horses	4	3 9 2 6	3	2
Number of milk cows	9	9	8	8
Number of beef cows	4	2	1	3
Number of ewes	6		3	
Number of litters of pigs	18	13	15	14
Number of hens & pullets	180	222	184	180
Total prod. livestock units	48	51	47	45
Livestock returns per \$100 feed	\$ 175	\$ 173	\$ 147	\$ 182
Pounds butterfat per cow	-	222	245	269
Eggs laid per hen		133	155	153
Pigs saved per litter		5.9	5.4	6.3
Size of Business		and the second second	a the state of the	
Work units (total)	577	633	588	611
Number of workers	2.0	1.9	1.6	1.7
Work units per worker	289	333	368	360
Power, Mach. & Equip.		and the set		
Power invest. per crop acre	\$ 4.92	\$ 5.45	\$ 6.41	\$ 5.53
Crop mach. inv. per crop acre	\$ 6.80	\$ 7.02	\$ 7.55	\$ 8.23

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14 Farms With Continuous Records, 1943-46