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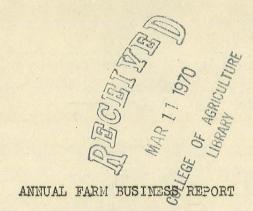
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June 1948

LINCOLN I, NEBRASKA

E.C. 876 1947



WASHINGTON COUNTY

NEBRASKA

13 Farms

Nebraska
Cooperative Extension Work
In Agriculture and Home Economics
U. of N. Agr'l College and U. S. Dept. of Agr. Cooperating
H. G. Gould, Acting Director
Lincoln 1

FARM BUSINESS REPORT WASHINGTON COUNTY, NEBRASKA 1947

Arthur G. George, Department of Rural Economics

This report is made from farm business records kept by 13 Washington county farmers covering the 1947 calendar year. This county is located in eastern Nebraska just north of Omaha. It touches the Missouri river on the east. The county contains rolling land for the most part except for Missouri river bottom land which extends back from the river for a few miles along the eastern edge of the county. Combinations of a fertile soil, favorable climate and adequate rainfall make this a very productive county. Corn is the most important single crop. Cattle feeding and hog production are the leading livestock enterprises.

Excessive rainfall in the spring and early summer of 1947 prevented timely planting and cultivation of corn. Much corn was washed out or the ground was too wet for planting.

The greater part of the summer was excessively hot and dry. These circumstances resulted in a much smaller than average corn crop and low yields of other crops as well.

The year was characterized by high industrial activity in the United States, a high level of employment and an active demand for farm products both at home and abroad. Prices received by farmers were high as were prices paid by them. Net dollar returns were higher than normal. The average rate earned on the investment after paying all operating costs and allowing wages to the operator and other unpaid labor at \$125 per month for these 13 farms was 15.3 per cent. These 13 farms returned on the average \$7,311 to the operator for his work and ability as a manager. This amount was the return to the operator after deducting \$125 per month from net receipts for the labor of other members of the family who did field work, and an allowance for interest of 5 per cent on the farm capital.

The 5 most profitable farms of the group had average earnings of 20.9 per cent or an average labor and management wage of \$10,903. The 5 least profitable farms earned an average of 9.1 per cent on the investment or a labor and management wage of \$3,914.

The number of records obtained was too few to be representative of all farms in Washington county, but they give important clues as to the type of organization and management that will result in greatest returns on most farms in the county.

The data from the farm records are presented in 10 tables which follow. Tables 1 thru 6 show beginning and closing inventories, summary of land use, both in acres and per cent of total land in farms, summary of income and

^{*}Cooperating agencies: The Department of Rural Economics and Agricultural Extension Service of the College of Agriculture, University of Nebraska, and farmers in Washington county.

expenses including inventory changes with resultant earnings, and a comparison of factors that affect farm incomes on Washington county farms. Each of these tables show average data for the 13 farms, for the 5 most profitable, and for the 5 least profitable farms. They are presented without further discussion. Tables 7 to 10, inclusive, show the influence of certain important factors on incomes as found on the 13 farms studied. A brief discussion accompanies each table.

The thermometer chart is a device for showing at a glance how an individual compares with the average of the group for each of the efficiency factors shown. The rating of each operator is marked on the particular circular received by each farmer who contributed a record.

Explanations and Definitions

- 1. Work Unit (Productive Man Work Unit). The amount of work a man can do in a ten hour day when working on crops and productive livestock at average speed with the type of equipment in most common use in his community.
 - 2. Productive man work required for major crops and types of livestock.

<u>Item</u>	<u>Unit</u>		required Central Nebraska
Milk cow butterfat product More than 160 pounds Less than 160 pounds Feeder cattle Other cattle Hogs Sheep, farm flock Poultry	ion 1 head 1 head 1 head 1 animal unit 100 lbs. gain 1 animal unit 100 head	130 100 15 40 3 35 200	130 100 15 40 3 35 200
Corn, husked Corn, hogged Corn, silage Wheat Oats, barley Soybeans Alfalfa hay Seed (alfalfa or clover) Other hay Temporary pasture Sorghum (Grain or hay)	l acre	8 4 14 6 6 9 12 10 6 3 8	7 4 10 4 5 - 9 - 3 3 6

3. Animal Unit: One cow, one bull, one feeder, 2 stock cattle 1-2 years old, 4 calves under one year, 7 sheep, 1,000 pounds of hogs produced, 100 head of poultry.

Table 1. Summary of beginning inventories on 13 Washington county, Nebraska, farms, 1947.

Item	Your farm	13 farms	Averages 5 most profitable farms	5 least profitable farms
SIZE OF FARM (ACRES)		272	276	233
HORSES	\$	\$174	\$172	\$208
PRODUCTIVE LIVESTOCK (TOTAL)	\$	\$6,746	\$7,942	\$7,827
Milk cows		583	530	612
Feeder cattle		2,050	4,056	1,237
Other cattle		782	227	1,308
Hogs		3,144	2,983	4,434
Sheep				-
Poultry		187	146	236
MACHINERY AND EQUIPMENT (TOTAL)	\$	\$3,653	\$3,252	\$4,004
Truck		154	67	302
Automobile		383	487	474
Tractor		809	650	767
Other machinery		2,307	2,048	2,461
FEED, GRAIN AND SUPPLIES	\$	\$5,311	\$6,991	\$4,639
PERMANENT IMPROVEMENTS	\$	\$3,398	\$2,425	\$5,278
LAND	\$	\$34,453	\$35,415	\$28,874
TOTALS: BEGINNING INVENTORIES	\$	\$53,735	\$56,197	\$50,830

Table 2. Summary of closing inventories on 13 Washington county, Nebraska, farms, 1947.

			Averages			
Item	Your farm	13 farms	5 most profitable farms	5 least profitable farms		
SIZE OF FARM (ACRES)		272	276	233		
HORSES	\$	\$97	\$103	\$103		
PRODUCTIVE LIVESTOCK (TOTAL)	\$	\$8,329	\$10,990	\$7,668		
Milk Cows		652	675	569		
Feeder cattle		2,867	6,821	574		
Other cattle		1,058	462	1,555		
Hogs		3,600	2,911	4,808		
Sheep						
Poultry		152	121	162		
MACHINERY AND EQUIPMENT (TOTAL	3) \$	\$5,029	\$5,283	\$5,067		
Truck		168	56	356		
Automobile		586	482	1,010		
Tractor		1,161	1,224	933		
Other machinery		3,114	3,521	2,768		
EED, GRAIN AND SUPPLIES	\$	\$5,853	\$7,094	\$6,418		
ERMANENT IMPROVEMENTS	\$	\$3,760	\$3,411	\$5,279		
AND	\$	\$34,453	\$35,415	\$28,874		
TOTALS: CLOSING INVENTORIES	\$	\$57,521	\$62,296	\$53,409		

Table 3. Summary of land use by crops on 13 Washington county, Nebraska, farms, 1947.

			Average acres	
Item	Your farm	13 farms	5 most profitable farms	5 least profitable farms
Corn		92	90	79
Oats		48	41	59
Wheat		22	19	13
Soybeans		5	9	5
Alfalfa and Clover		19	23	21
Corn silage		5	• 9	4
Tilled pasture		24	30	16
Wild hay		2	4	
Other cropland		8	2	5
Total cropland		225	227	202
Permanent pasture		28	30	9
Farmstead, roads, waste		19	19	22
Total acres in farm		272	276	233
Per cen	t of total acr	eage in each	n use	
Corn		33.8	32.6	33.9
Oats		17.6	14.9	25.3
Wheat		8.0	6.9	5.6
Soybeans		1.9	3.3	2.2
Alfalfa and Clover		7.0	8.3	9.0
Corn silage		1.9	3.3	1.7
Pilled pasture		8.8	10.9	6.9
Wild hay		.7	1.4	app and and ma
Other Cropland		3.0	.7	2.1
Total Cropland		82.7	82.3	86.7
Permanent pasture		10.3	10.8	3.9
Farmstead, roads, waste		7.0	6.9	9.4
Total		100	100	100

Table 4. Summary of cash income and cash expenses on 13 Washington county, Nebraska, farms, 1947.

			Averages	
Item	Your	13	5 most	5 least
	farm	farms	profitable	profitable
			farms	farms
	CASH II	NGOME		
Improvements		-		
lorses .	. \$	\$42	\$55	\$54
attle		5,742	10,068	2,630
logs		7,016	6,404	9,833
oultry		153	150	179
gg sales		563	422	583
Dairy sales		904	1,022	521
achinery and equipment		359	365	539
eed, grain, and supplies		5,609	7,096	2,496
abor off farm		19	8	37
iscellaneous		144	140	234
Total Cash Income	\$	\$20,551	\$25,730	\$17,106
	CASH EX	PENSES		
Improvements	\$	\$927	\$1,619	\$710
lorses		50	36	94
attle		2,096	3,758	902
logs		852	323	1,731
oultry		56	49	72
ivestock expense		419	200	831
Supplies		194	280	179
achinery and equipment		3,823	4,501	3,707
eed, grain and supplies		3,095	3,549	2,499
rop expense		383	493	369
ired labor		1,168	1,624	1,065
axes		541	668	450
iscellaneous		434	587	477
Total Cash Expense	\$	\$14,038	\$17,687	\$13,086
et Cash Gain	\$	\$6,513	\$8,043	\$4,020
Met Inventory Gain		3,785	6,100	2,578
et Cash Loss		000 Ave ave		
et Inventory Loss			tion and dots	
Jet Farm Gain	\$	\$10,298	\$14,143	\$6,598

Table 5. Summary of income and expenses, including inventory changes on 13 Washington county, Nebraska, farms, 1947.

			Averages	
Item	Your	13 farms	5 most profitable farms	5 least profitabl farms
RECEIPT	S AND I	NET INCREASES		
Horses				
Cattle	\$	\$4,809	\$9,455	\$1,269
Hogs		6,619	6,009	8,475
Poultry		61	76	34
Egg sales		563	422	583
Dairy sales		904	1,022	521
Machinery and equipment		7 050		7 777
Feed, grain and supplies		3,056	3,651	1,776
Miscellaneous		19	8	37
		144	140	234
Total Receipts and Net Increases	\$	\$16,175	\$20,783	\$12,929
EXPENSE	S AND 1	NET DECREASES		
Improvements	\$	\$565	\$633	\$710
lorses		85	50	145
attle				
logs				
Poultry		47.0		
ivestock expense		419	200	831 179
Supplies		194	280	
Machinery and equipment Weed, grain, and supplies		2,088	2,105	2,105
Crop expense		383	493	369
Fired labor		1,168	1,624	1,065
axes		541	668	450
fiscellaneous		434	587	477
Total Expenses and Net Decreases	\$	\$5,877	\$6,640	\$6,331
deturn to Capital and Opera-				
tor's Family	\$	\$10,298	\$14,143	\$6,598
alue of Unpaid Labor at \$125				
per month	\$	\$1,798	\$1,750	\$1,850
et Income from Investment				
and Management	\$	\$8,500	\$12,393	\$4,748
werage Investment	\$	\$55,692	\$59,295	\$52,188
late Earned on Investment (%)		15.3	20.9	9.1
eturns to Capital and Opera-				
tor's Labor and Management	\$	\$10,096	\$13,868	\$6,523
5% Interest on average investment	999	\$2,785	\$2,965	\$2,609
Labor and Management Wage	\$	\$7,311	\$10,903	\$3,914

Table 6. Comparison of factors that affect farm income on 13 Washington county, Nebraska, farms, 1947.

13 farms \$7,311 15.3% 272 225 1.7 368 56 5.2 18.8 114 2,331 1,192 469 30 23,471	5 most profitable farms \$10,903 20.9% 276 227 1.8 382 76 4.2 17.4 102 2,291 1,301 443 35	5 least profitable farms \$3,914 9.17 233 202 1.8 353 49. 4.6 25.0 157. 2,275 1,357 349 31 27,579
\$7,311 15.3% 272 225 1.7 368 56 5.2 18.8 114 2,331 1,192 469 30 23,471	\$10,903 20,9% 276 227 1.8 382 76 4.2 17.4 102 2,291 1,301 443 35	\$3,914 9.17 233 202 1.8 353 49. 4.6 25.0 157. 2,275 1,357 349 31
\$7,311 15.3% 272 225 1.7 368 56 5.2 18.8 114 2,331 1,192 469 30 23,471	\$10,903 20.9% 276 227 1.8 382 76 4.2 17.4 102 2,291 1,301 443 35	\$3,914 9.17 233 202 1.8 353 49. 4.6 25.0 157. 2,275 1,357 349 31
272 225 1.7 368 56 5.2 18.8 114 2,331 1,192 469 30 23,471	20.9% 276 227 1.8 382 76 4.2 17.4 102 2,291 1,301 443 35	9.1% 233 202 1.8 353 49. 4.6 25.0 157 2,275 1,357 349 31
272 225 1.7 368 56 5.2 18.8 114 2,331 1,192 469 30 23,471	20.9% 276 227 1.8 382 76 4.2 17.4 102 2,291 1,301 443 35	233 202 1.8 353 49. 4.6 25.0 157. 2,275 1,357 349 31
272 225 1.7 368 56 5.2 18.8 114 2,331 1,192 469 30	227 1.8 382 76 4.2 17.4 102 2,291 1,301 443 35	202 1.8 353 49. 4.6 25.0 157. 2,275 1,357 349 31
225 1.7 368 56 5.2 18.8 114 2,331 1,192 469 30 23,471	227 1.8 382 76 4.2 17.4 102 2,291 1,301 443 35	202 1.8 353 49. 4.6 25.0 157. 2,275 1,357 349 31
1.7 368 56 5.2 18.8 114 2,331 1,192 469 30	1.8 382 76 4.2 17.4 102 2,291 1,301 443 35	1.8 353 49. 4.6 25.0 157. 2,275 1,357 349 31
368 56 5.2 18.8 114 2,331 1,192 469 30	382 76 4.2 17.4 102 2,291 1,301 443 35	353 49. 4.6 25.0 157. 2,275 1,357 349 31
56 5.2 18.8 114 2,331 1,192 469 30 23,471	76 4.2 17.4 102 2,291 1,301 443 35	49. 4.6 25.0 157. 2,275 1,357 349 31
5.2 18.8 114 2,331 1,192 469 30 23,471	4.2 17.4 102 2,291 1,301 443 35	2.6 25.0 157. 2,275 1,357 349 31
18.8 114 2,331 1,192 469 30 23,471	17.4 102 2,291 1,301 443 35	25.0 157. 2,275 1,357 349 31
2,331 1,192 469 30 23,471	2,291 1,301 443 35	2,275 1,357 349 31
2,331 1,192 469 30 23,471	2,291 1,301 443 35	2,275 1,357 349 31
1,192 469 30 23,471	1,301 443 35 23,305	1,357 349 31
1,192 469 30 23,471	1,301 443 35 23,305	1,357 349 31
469 30 23,471	443 35 23,305	349 31
30 23,471	35 23,305	31
23,471	23,305	
		27 579
		27 579
\$904	\$1,022	\$521
\$563	\$422	\$583
65.5	05.5	00 N
25.3	25.5	28.7
24.9	31.6	23.2
20.9	22.8	26.4
1.6	1.5	1.5
100	114	99
6.0	5.9	6.3
\$175	\$243	\$113
\$3.32	\$2.87	\$3.38
215.2	214.9	199.4
215.2	214.9	199.4
\$14.10	\$14.81	\$14.48
φ14.10	φτ . στ	ήT. ± * ± 20
damo	\$182	\$141
517()	ΨΙΟΣ	φιπι
\$170		
\$170		41
	4.2	
\$170 42	42	
42		59
	42 58	59
		42 42

Influence of Certain Factors on Farm Income

SIZE OF BUSINESS.—The volume of sales or the quantity of grain, livestock and livestock products produced in a year are very important factors in determing farm income. The size of a farm business can be measured in number of acres, amount invested, numbers of livestock, days of labor expended and in other ways. Table 7 considers the number of work units as a measure of size and shows its effect on the labor and management wage. The table shows greater incomes were received on those farms where more work units were employed.

Table 7. Relationship between size of business as measured by work units, and labor and management wage on 13 Washington county, Nebraska, farms, 1947.

Work un	nits used		Average
Range	Average	Number of farms	labor and management
			Wage
Below 300	219	4	\$3,702
300 to 430	356	5	\$7,352
430 and above	531	4	\$10,871

CROP YIELDS.—Crop yields have a decided influence on farm incomes. They must be considered in connection with acreage, however, and the kind and number of different crops grown. Table 8 presents crop yield index data and shows that as the index of production per acre increases, incomes increase. The crop yield index is a measure of yields of all crops when the average for all 13 farms was taken as 100.

Sable 10. Relation of returns from feed fed to wiedoctive

turns on the feed fad to productive livestocks. Prices of feeds in velation to

Table 8. Relation of crop yields to labor and management wage on 13 Washington county, Nebraska, farms, 1947.

Crop yie	ld index	doclast [£, 80];	Average
Range	Average	Number of farms	labor and management wage
Below 90	83	4	\$5,836
90 to 107	96	5	\$6,198
107 and over	129	4	\$10,180

PRODUCTIVE LIVESTOCK.—Amount of productive livestock, which is all livestock except horses and mules has a distinct influence on farm returns. Experiences of many farmers in eastern Nebraska over a period of years show that livestock farmers obtained greater returns than did crop farmers. For some individual years, however, the opposite may be true. Table 9 shows that greater incomes were received by those farmers who received a considerable part of their income from the sale of livestock and livestock products than by the farmers who had but little livestock.

Table 9. Relation of number of units of productive livestock to labor and management wage on 13 Washington county, Nebraska, farms, 1947.

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Productive ar	nimal units	Number	Average labor and
Range	Average	of farms	management wage
Below 37	30	5	\$4,628
37 to 56	47	4	\$7,798
56 and above	99	4	\$10,180

EFFICIENT LIVESTOCK FEEDING.—Many things contribute to high or low returns on the feed fed to productive livestock. Prices of feeds in relation to prices of livestock, quality of feed and type and grade of livestock, balancing of rations, sanitary conditions, health of livestock, and perhaps other factors all have an influence on the amount of returns from a given quantity of feed consumed. Table 10 shows that farm incomes increase as the returns for each \$100 worth of feed fed increases.

Table 10. Relation of returns from feed fed to productive livestock to labor and management wage on 13 Washington county, Nebraska, farms, 1947.

Returns per \$100	worth of feed		Average
fed to producti	ve livestock	Number	labor and
Range	Average	of farms	management wage
Below \$157	\$143	5	\$3,913
\$157 to \$180	\$169	4	\$7,994
\$180 and above	\$222	4	\$10,874

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THERIOMETER CHART. By using the figures for your farm in Table 6, each operator can determine his standing in comparison with the averages of the farms included in this study. The averages for the 13 records used in this summary are located between the lines across the center of the page.

Size			Productiv	re rates :	· Eff	ciency		:	Balar	nce	
Acres per farm	Work units	Live- stock units	Crop yield index	Pigs per litter	Returns per \$100 feed fed	Work units per man	Labor, power mach. cost per work unit	Percent work on live- stock	Livestock units per 100 acres		Labor and managemen wage
422	568	106	120	7.0	\$220	290	\$9.10	68	37	25.3%	\$12,311
392	528	96	116	6.8	210	275	10.10	66	34	23.3	11,311
362	488	86	112	6.6	200	260	11.10	64	31	21.3	10,311
332	448	76	108	6.4	190	245	12,10	62	28	19.3	9,311
302	408	66	104	6.2	180	230	13.10	60	25	17.3	8,311
272	368	56	100	6.0	\$170	215	\$14.10	58	22	15.3%	\$7,311
242	328	46	96	5.8	160	200	15.10	56	19	13.3	6,311
212	288	36	92	5.6	150	185	16.10	54	16	11.3	5,311
182	248	26	88	5.4	140	170	17.10	52	13	9.3	4,311
152	208	16	84	5.2	130	155	18.10	50	10	7.3	3,311
122	168	6	80	5.0	120	140	19.10	48	7	5.3	2,311