1964

ANNUAL REPORT
WEST CENTRAL MINNESOTA
FARM MANAGEMENT SERVICE

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Institute of Agriculture

and

Vocational Division

MINNESOTA DEPARTMENT OF EDUCATION

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1964 REPORT OF THE FARM MANAGEMENT SERVICE FOR VOCATIONAL AGRICULTURE IN WEST CENTRAL MINNESOTA

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INTRODUCTION

The Department of Agricultural Economics and Agricultural Education, the West Central School and Station and the Agricultural Extension Service of the University of Minnesota are cooperating with the Vocational Division, Minnesota Department of Education, in maintaining a farm management service. The service was initiated during 1952 and is available to farmers who are enrolled in adult or young farmer classes in public schools.

The purpose of the project as far as the schools are concerned is (1) to give assistance to the instructors in the mechanics of keeping farm records and (2) to aid in the analysis of the farm business through the use of records as a basis for vocational guidance. The enrollment is on a voluntary basis insofar as the number of schools participating and the number of farmers enrolled in the service.

The analysis of the records and the preparation of the reports for West Central Minnesota are handled by T. R. Nodland of the University of Minnesota, Department of Agricultural Economics, with assistance from Mike Cullen, Area Vo-Ag Coordinator, Willmar Community College, and R. E. Smith, West Central School and Experiment Station. The Department of Agricultural Education was represented by M. J. Peterson and the Agricultural Extension Service by Hal Routhe. The State Department of Education was represented by G. R. Cochrane, State Supervisor of Agricultural Education.

Each farmer pays an annual fee which covers a portion of the cost. The balance of the costs were defrayed by the University of Minnesota.

This report deals with farmers enrolled in eight schools in West Central Minnesota. The following tabulation shows by schools the number of 1964 farm records submitted:

School	No. of Records	Instructor
Alexandria Appleton Canby Dawson Hoffman Lake Benton Renville Willmar	19 1 2 2 16 1 2	Bernard Sonstegard Norman Brakken Norman Haugaard Alvin Schwandt Russell Ruud Heimer Swanson Marlyn Wacholz William Ruf
	45	

The data for 40 farms are shown in the tables on succeeding pages. Five farmers were omitted from the averages because the records were not sufficiently complete.

The records kept included farm inventories, cash receipts and expenses, feed consumed by the various classes of livestock, family living secured from the farm, household and personal expenses and receipts, and the operator's liabilities and assets other than farm capital. All types of tenure arrangements are represented, ranging from full owners to partnerships in which the operator furnishes a relatively small amount of capital.

FARM INVENTORIES

The capital managed per farm varied from \$12,579 to \$150,575. The average investment for all farms included in this report and for the one-third high and one-third low in labor earnings is shown in Table 1.

Landlords or partners supplied some capital in 22 out of the 40 cases included in this report. The landlord's investment has been included in Table 1 in order to show the total amount used per farm.

FARM EARNINGS

Labor earnings is a measure of the relative financial success of a farmer as compared with other farmers and represents the returns above all farm expenses and a charge for the use of farm capital. For purposes of comparison, the earnings are presented on a full-owner basis.

There are two methods of computing labor earnings. Table 2 shows the earnings statement on a cash basis and Table 3 shows the earnings on an enterprise or accrual basis. The principal difference in the two statements is in the method of handling the net increase or decrease in the value of farm capital. In the cash statement the net increase or decrease in farm capital is entered as one item. In the enterprise statement, the net change in the inventory has been included in each enterprise in order to compute "total returns and net increases," or "total expenses and net decreases" by enterprises.

Table 1. Summary of Farm Inventories, 1964*

	Your		Average of	40 farms
Items	Jan. l	Dec. 31	Jan. l	Dec. 31
Size of farm (acres)			309	
Size of business (work units) **			545	
Dairy cows			\$ 3648	\$ 3736
Other dairy cattle	No.		1979	2271
Beef cattle (incl. feeders)			4485	4333
Hogs			1454	1514
Sheep (incl. feeders)	500-557-5501 E.S. Feb-50-	1 1 3 4 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	149	143
Poultry (incl. turkeys)			393	450
Productive livestock (total)			\$12108	\$12447
Horses	* 	The second secon	13	12
Crop, seed and feed			6120	5227
Auto (farm share)	***************************************		919	937
Tractors		+**	1815	1976
Crop and general machinery	: 	· 	3829	4139
Livestock equipment	(100 - 100		1879	2272
Machinery and equipment (total)			\$ 8442	\$ 9324
Land	-		24130	24118
Buildings, fences, etc.			11858	12080
buildings, lences, ecc.			110)0	_12000
Total farm capital managed			\$62671	\$63208
1	(2000-1111-1111-1111-1111-1111-1111-1111		200	10 10
*	13 most pr		13 least p	rofitable
Items	Jan. 1	Dec. 31	Jan. l	Dec. 31
S: S C . (250		27.5	
Size of farm (acres)	359 688		315	
Size of business (work units)**	000	1.50	471	
Daimy cours	\$ 3686	\$ 3638	\$ 3569	\$ 3591
Dairy cows	\$ 3686	\$ 3638	\$ 3569	\$ 3591
Other dairy cattle	2317	2248	1747	2258
Other dairy cattle Beef cattle (incl. feeders)	2317 3952	2248 4800	1747 4644	2258 4767
Other dairy cattle Beef cattle (incl. feeders) Hogs	2317 3952 990	2248 4800 1358	1747 4644 1211	2258 4767 1426
Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders)	2317 3952 990 377	2248 4800 1358 350	1747 4644	2258 4767 1426 55
Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys)	2317 3952 990 377 1048	2248 4800 1358 350 1187	1747 4644 1211 37 ——97	2258 4767 1426 55 140
Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock (total)	2317 3952 990 377	2248 4800 1358 350	1747 4644 1211 37	2258 4767 1426 55
Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock (total) Horses	2317 3952 990 377 1048 \$12370	2248 4800 1358 350 1187 \$13581	1747 4644 1211 37 97 \$11305	2258 4767 1426 55 140 \$12237
Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock (total) Horses Crop, seed and feed	2317 3952 990 377 1048 \$12370	2248 4800 1358 350 1187 \$13581	1747 4644 1211 37 97 \$11305	2258 4767 1426 55 140 \$12237
Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock (total) Horses Crop, seed and feed Auto (farm share)	2317 3952 990 377 1048 \$12370 7124 853	2248 4800 1358 350 1187 \$13581 - 7442 972	1747 4644 1211 37 97 \$11305 - 6221 1167	2258 4767 1426 55 140 \$12237 - 4517 1243
Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock (total) Horses Crop, seed and feed Auto (farm share) Tractors	2317 3952 990 377 1048 \$12370 - 7124 853 1746	2248 4800 1358 350 1187 \$13581 - 7442 972 2511	1747 4644 1211 37 97 \$11305 - 6221 1167 2002	2258 4767 1426 55 140 \$12237 4517 1243 1717
Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock (total) Horses Crop, seed and feed Auto (farm share) Tractors Crop and general machinery	2317 3952 990 377 1048 \$12370 7124 853 1746 3107	2248 4800 1358 350 1187 \$13581 - 7442 972 2511 3821	1747 4644 1211 37 97 \$11305 - 6221 1167 2002 4253	2258 4767 1426 55 140 \$12237 4517 1243 1717 4562
Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock (total) Horses Crop, seed and feed Auto (farm share) Tractors Crop and general machinery Livestock equipment	2317 3952 990 377 1048 \$12370 7124 853 1746 3107 1626	2248 4800 1358 350 1187 \$13581 - 7442 972 2511 3821 2438	1747 4644 1211 37 97 \$11305 - 6221 1167 2002 4253 1770	2258 4767 1426 55 140 \$12237 4517 1243 1717 4562 2005
Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock (total) Horses Crop, seed and feed Auto (farm share) Tractors Crop and general machinery Livestock equipment Machinery and equipment (total)	2317 3952 990 377 1048 \$12370 7124 853 1746 3107 1626 \$ 7332	2248 4800 1358 350 1187 \$13581 - 7442 972 2511 3821 2438 \$ 9742	1747 4644 1211 37 97 \$11305 - 6221 1167 2002 4253 1770 \$ 9192	2258 4767 1426 55 140 \$12237 4517 1243 1717 4562 2005 \$ 9527
Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock (total) Horses Crop, seed and feed Auto (farm share) Tractors Crop and general machinery Livestock equipment Machinery and equipment (total) Land	2317 3952 990 377 1048 \$12370 7124 853 1746 3107 1626 \$ 7332 32181	2248 4800 1358 350 1187 \$13581 - 7442 972 2511 3821 2438 \$ 9742 32144	1747 4644 1211 37 97 \$11305 - 6221 1167 2002 4253 1770 \$ 9192 20530	2258 4767 1426 55 140 \$12237 4517 1243 1717 4562 2005 \$ 9527 20530
Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock (total) Horses Crop, seed and feed Auto (farm share) Tractors	2317 3952 990 377 1048 \$12370 7124 853 1746 3107 1626 \$ 7332	2248 4800 1358 350 1187 \$13581 - 7442 972 2511 3821 2438 \$ 9742	1747 4644 1211 37 97 \$11305 - 6221 1167 2002 4253 1770 \$ 9192	2258 4767 1426 55 140 \$12237 4517 1243 1717 4562 2005 \$ 9527
Other dairy cattle Beef cattle (incl. feeders) Hogs Sheep (incl. feeders) Poultry (incl. turkeys) Productive livestock (total) Horses Crop, seed and feed Auto (farm share) Tractors Crop and general machinery Livestock equipment Machinery and equipment (total) Land	2317 3952 990 377 1048 \$12370 7124 853 1746 3107 1626 \$ 7332 32181	2248 4800 1358 350 1187 \$13581 - 7442 972 2511 3821 2438 \$ 9742 32144	1747 4644 1211 37 97 \$11305 - 6221 1167 2002 4253 1770 \$ 9192 20530	2258 4767 1426 55 140 \$12237 4517 1243 1717 4562 2005 \$ 9527 20530

^{*} For the purpose of comparison, all the data shown in this report, with the exception of Tables 6 and 7, are presented on a full owner basis. The assets, expenses and receipts of the landlord were included in the records from rented farms.

** See page 11 for an explanation of "work units."

Table 2. Summary of Farm Earnings (Cash Statement), 1964 13 least 13 most Average Your of 40 profitable profitable farm farms farms Items farms FARM RECEIPTS \$ 1487 \$ 1717 \$ 1485 Dairy cattle 6345 5663 6193 Dairy products 5401 5375 3203 Beef cattle (incl. feeders) 4346 3476 3748 171 362 27 Sheep and wool (incl. feeders) 65 83 176 Poultry 5299 330 1896 Eggs 936 1633 756 Corn 689 706 562 Small grain 1407 2568 899 Other crops 443 312 Mach. & equip. sold & gas tax 309 513 279 339 Income from work off the farm 352 440 416 Miscellaneous \$29053 (1) Total farm sales \$23673 537 4872 (2) Increase in farm capital 302 (3) Family living from the farm \$34274 \$24512 (4) Total farm receipts 1+2+3 FARM EXPENSES 399 193 565 Dairy cattle bought 1791 2429 2841 Beef cattle bought (incl. feed.) 408 237 293 Hogs bought Sheep bought (incl. feeders) 540 1459 174 Poultry bought 621 672 597 Misc. livestock expense 4385 3116 5110 Feed bought 890 983 942 Fertilizers 841 897 1042 Other crop expenses 855 850 803 Custom work hired 1089 981 988 Gas, oil, grease (farm share) 667 537 593 Rep. of mech. power (farm share) 323 295 396 Rep. & upkeep of real estate 384 473 423 Rep. & upkeep of cr.& gen.mach. 149 124 133 Rep. & upkeep of lvstk. equip. 386 497 819 Wages of hired labor 303 298 322 Electricity (farm share) 1244 1016 983 Real estate & pers.prop. taxes 421 346 General farm expense \$15842 \$13916 \$18690 (5) Total cash oper. expense 765 1472 440 (6) Mech. power bought (fm.sh.) 1050 999 1376 (7) Crop & gen. mach. bought 708 1183 473 (8) Livestock equip. bought 214 892 1735 (9) Bldgs. & fencings bought \$24456 \$16093 \$19206 (10) Total farm purchases 848 (11) Decrease in farm capital 3147 3713 2910 (12) Interest on farm capital 738 878 1012 (13) Unpaid family labor 93 57 60 (14) Board for hired labor \$20956 \$23148 \$29107 (15) Total farm expenses -3001 (16) Labor earnings 4-15 1364 5167

Table 3. Summary of Farm Earnings (Enterprise Statement), 1964*

Items	Your farm	Average of 40 farms	13 most profitable farms	l3 least profitable farms
RETURNS AND NET INCREASES Dairy cows Other dairy cattle Beef breeding herd Feeder cattle Hogs Sheepfarm flock Chickens All productive livestock Value of feed fed to livestock Ret. over feed from livestock Crops, seed, and feed Income from labor off farm Agricultural conservation pay. Miscellaneous		\$ 6224 1740 322 2490 4145 164 1526 \$16611 11520 \$ 5091 7488 130 19	\$ 6390 1637 495 2950 3469 336 4188 \$19465 11984 \$ 7481 10162 179 23 452	\$ 5671 1659 494 1089 3756 45 304 \$13018 10432 \$ 2586 5786 81 28
(1) Total ret. & net increases	1	\$13135	\$18297	\$ 8805
EXPENSES AND NET DECREASES Truck Auto (farm share) Tractor Elec. & gas eng. exp. (fm.sh.) Hired power Total power Crop and gen. machinery Livestock equipment Buildings, fencing, tiling Misc. prod. livestock expense Labor Real estate taxes Personal property taxes Insurance General farm Interest on farm capital		\$ 273 405 1100 300 405 \$ 2483 1119 463 988 620 1589 794 222 176 170 3147	\$ 231 348 1060 326 363 \$ 2328 1192 497 1042 672 2021 992 252 202 219 3713	\$ 328 484 1114 303 390 \$ 2619 1199 368 1021 597 1784 759 224 186 139 2910
(2) Total exp. & net decreases		\$11771	\$13130	\$11806
(3) Labor earnings 1-2	-	1364	5167	-3001

^{*} 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. The labor earnings are the same as those on page 4.

FAMILY LIVING FROM THE FARM

The family living from the farm is the estimated value of the farm produce used in the house furnished the farmer and his family by the farm. It is a part of the income of the farm and a part of the expenses of operating the household, even though cash transactions are not involved. The omission of the farm produce used in the home results in an incomplete record of both farm income and personal income.

The value of the family living as shown in Table 4 amounts to slightly more than 1.0 percent of the total farm receipts on those farms. The values assigned are a conservative market price on the farm. If these products had been purchased, the amount paid out would have been considerably higher.

Table 4. Family Living from the Farm, 1964

		Average		
	Your	Average of 40	Your	of 40
Items	farm	farms	farm	farms
Adult equivalentfamily others		3.9 .1		
Whole milk Skim milk Beef Pork Poultry Eggs		1462 qts. 34 qts. 904 lbs. 215 lbs. 71 lbs. 63 doz.		\$ 90 1 150 31 17 13 \$302

HOUSEHOLD AND PERSONAL EXPENSES AND RECEIPTS

Household and personal accounts are important if the family is to manage its financial affairs wisely. The household and personal expenses and receipts are presented in Table 5. These farmers spent an average of \$331 per month for family living in addition to the food, fuel and housing furnished by the farm.

Table 5. Household and Personal Expenses for Those Farms which Kept Complete Accounts of These Expenses, 1964

Items	Your farm	Average of 21 farms
Number of persons - family	1	4.4
Number of adult equivalent - family - other*		3.7 .1
Food and meals bought Operating and supplies Furnishings and equipment Clothing and clothing materials Personal care, personal spending Education, recreation, development Gifts and special events Medical care and health insurance Church, welfare Personal share of auto expense Operator's share of upkeep of dwelling Household share of electric expense		\$ 948 280 192 308 84 181 143 468 183 162 55 124
Total cash living expense		\$3128
Household and personal share of new auto New dwelling Taxes and other deductions Life insurance Other savings and investments		38 367 148 248 42
Total household and personal cash expense Total family living from the farm		\$3971 <u>261</u>
Total cash expense and perquisites		\$4232
Receipts: Return to capital and family labor Income from outside investments Sale of investments Miscellaneous		2947 8 57 547

^{*} Hired help or others boarded.

NET WORTH

A net worth statement includes a listing of all the assets and liabilities as of a given date. The difference between the farmer's total assets and his liabilities is his net worth. A net worth statement for owners, part owners and renters is presented in Table 6. Both the farm and personal assets and liabilities are included.

The difference between the operator's net worth at the beginning and at the end of the year shows the gain in net worth. It represents the financial progress that has been made during the year.

Table 6. Net Worth Statement for Those Farmers Who Kept a Complete Record of all Assets and Liabilities, 1964 (Operator's Share)

of all Assets and Liabilit		farm		wners
Items	Jan. 1	Dec. 31	Jan. 1	Dec. 31
Total acres in farm			239	
Owned			239	
Rented			-	
Total farm capital	8/2012/2012		\$55183	\$52025
Stocks and bonds	-		740	771
Life insurance			1969	2014
Accounts receivable			13	5
Shares in co-ops			1204	977
Outside real estate			_	_
Cash on hand			585	488
Household furnishings and clothing			2782	2836
Auto (personal share)			498	530
Dwelling			<u>3831</u>	<u>3698</u>
otal household and personal assets			\$11622	\$11319
OTAL ASSETS			66805	63344
Federal Land Bank mortgage			3423	3356
FHA real estate mortgage	Communication of the second		3049	2978
Other mortgage on land operated			10053	9716
Production Credit Association			4592	2992
FHA chattel mortgage				1997
Other chattel mortgages	V. (2000 - 1000		5463	4472
Notes payable			900	1178
Accounts payable			<u> 1260</u>	1053
OTAL LIABILITIES			\$28740	\$27742
Farmer's net worth	**************************************		38065	35602
Gain in net worth				-2463
	9 part.			nters
tems	Jan. 1	Dec. 31	Jan. 1	Dec. 31
otal acres in farm	353		315	
Owned	185		-	
Rented	168	\$44342	315	\$207.00
otal farm capital	\$37251	光ははスなっ	\$22418	\$22182
Diagre and hande				17. a.c. 10.
Stocks and bonds	319	430	171	177
Life insurance	319 1791	430 1893	171 510	177 620
Life insurance Accounts receivable	319 1791 41	430 1893 201	171 510 28	177 620 25
Life insurance Accounts receivable Shares in co-ops	319 1791	430 1893 201 1384	171 510	177 620
Life insurance Accounts receivable Shares in co-ops Outside real estate	319 1791 41 1070	430 1893 201 1384 325	171 510 28 164	177 620 25 224
Life insurance Accounts receivable Shares in co-ops Outside real estate Cash on hand	319 1791 41 1070 - 700	430 1893 201 1384 325 659	171 510 28 164 -	177 620 25 224 -
Life insurance Accounts receivable Shares in co-ops Outside real estate Cash on hand Household furnishings and clothing	319 1791 41 1070 - 700 2379	430 1893 201 1384 325 659 2536	171 510 28 164 - 1410 1860	177 620 25 224 - 1479 1900
Life insurance Accounts receivable Shares in co-ops Outside real estate Cash on hand Household furnishings and clothing Auto (personal share)	319 1791 41 1070 700 2379 345	430 1893 201 1384 325 659 2536 262	171 510 28 164 -	177 620 25 224 -
Life insurance Accounts receivable Shares in co-ops Outside real estate Cash on hand Household furnishings and clothing Auto (personal share) Dwelling	319 1791 41 1070 700 2379 345 3300	430 1893 201 1384 325 659 2536 262 3615	171 510 28 164 - 1410 1860 496	177 620 25 224 1479 1900 392
Life insurance Accounts receivable Shares in co-ops Outside real estate Cash on hand Household furnishings and clothing Auto (personal share) Dwelling otal household and personal assets	319 1791 41 1070 700 2379 345 3300 \$ 9945	430 1893 201 1384 325 659 2536 262 3615 \$11305	171 510 28 164 1410 1860 496	177 620 25 224 - 1479 1900 392 - \$ 4817
Life insurance Accounts receivable Shares in co-ops Outside real estate Cash on hand Household furnishings and clothing Auto (personal share) Dwelling otal household and personal assets OTAL ASSETS	319 1791 41 1070 700 2379 345 3300 \$ 9945 47196	430 1893 201 1384 325 659 2536 262 3615 \$11305 55647	171 510 28 164 - 1410 1860 496	177 620 25 224 - 1479 1900 392
Life insurance Accounts receivable Shares in co-ops Outside real estate Cash on hand Household furnishings and clothing Auto (personal share) Dwelling otal household and personal assets OTAL ASSETS Federal Land Bank mortgage	319 1791 41 1070 700 2379 345 3300 \$ 9945 47196 2099	430 1893 201 1384 325 659 2536 262 3615 \$11305 55647 3347	171 510 28 164 1410 1860 496	177 620 25 224 - 1479 1900 392 - \$ 4817
Life insurance Accounts receivable Shares in co-ops Outside real estate Cash on hand Household furnishings and clothing Auto (personal share) Dwelling otal household and personal assets OTAL ASSETS Federal Land Bank mortgage FHA real estate mortgage	319 1791 41 1070 700 2379 345 3300 \$ 9945 47196 2099 1925	430 1893 201 1384 325 659 2536 262 3615 \$11305 55647 3347 1894	171 510 28 164 1410 1860 496	177 620 25 224 - 1479 1900 392 - \$ 4817
Life insurance Accounts receivable Shares in co-ops Outside real estate Cash on hand Household furnishings and clothing Auto (personal share) Dwelling otal household and personal assets OTAL ASSETS Federal Land Bank mortgage FHA real estate mortgage Other mortgages on land operated	319 1791 41 1070 700 2379 345 3300 \$ 9945 47196 2099 1925 6389	430 1893 201 1384 325 659 2536 262 3615 \$11305 55647 3347 1894 11798	171 510 28 164 1410 1860 496 - \$ 4639 27057	177 620 25 224 - 1479 1900 392 - \$ 4817 26999
Life insurance Accounts receivable Shares in co-ops Outside real estate Cash on hand Household furnishings and clothing Auto (personal share) Dwelling otal household and personal assets OTAL ASSETS Federal Land Bank mortgage FHA real estate mortgage Other mortgages on land operated Production Credit Association	319 1791 41 1070 700 2379 345 3300 \$ 9945 47196 2099 1925 6389 853	430 1893 201 1384 325 659 2536 262 3615 \$11305 55647 3347 1894	171 510 28 164 1410 1860 496	177 620 25 224 - 1479 1900 392 - \$ 4817
Life insurance Accounts receivable Shares in co-ops Outside real estate Cash on hand Household furnishings and clothing Auto (personal share) Dwelling otal household and personal assets OTAL ASSETS Federal Land Bank mortgage FHA real estate mortgage Other mortgages on land operated Production Credit Association FHA chattel mortgage	319 1791 41 1070 700 2379 345 3300 \$ 9945 47196 2099 1925 6389 853 789	430 1893 201 1384 325 659 2536 262 3615 \$11305 55647 3347 1894 11798 2876	171 510 28 164 1410 1860 496 	177 620 25 224 1479 1900 392 - \$ 4817 26999
Life insurance Accounts receivable Shares in co-ops Outside real estate Cash on hand Household furnishings and clothing Auto (personal share) Dwelling otal household and personal assets OTAL ASSETS Federal Land Bank mortgage FHA real estate mortgage Other mortgages on land operated Production Credit Association FHA chattel mortgage Other chattel mortgages	319 1791 41 1070 700 2379 345 3300 \$ 9945 47196 2099 1925 6389 853 789 3613	430 1893 201 1384 325 659 2536 262 3615 \$11305 55647 3347 1894 11798 2876	171 510 28 164 1410 1860 496 \$ 4639 27057	177 620 25 224 1479 1900 392 \$ 4817 26999 - 1155
Life insurance Accounts receivable Shares in co-ops Outside real estate Cash on hand Household furnishings and clothing Auto (personal share) Dwelling otal household and personal assets OTAL ASSETS Federal Land Bank mortgage FHA real estate mortgage Other mortgages on land operated Production Credit Association FHA chattel mortgage Other chattel mortgages Notes payable	319 1791 41 1070 700 2379 345 3300 \$ 9945 47196 2099 1925 6389 853 789 3613 1281	430 1893 201 1384 325 659 2536 262 3615 \$11305 55647 3347 1894 11798 2876	171 510 28 164 1410 1860 496 \$ 4639 27057 - 1000 2667 7124	177 620 25 224 - 1479 1900 392 - \$ 4817 26999 - - 1155 - 914 8427
Life insurance Accounts receivable Shares in co-ops Outside real estate Cash on hand Household furnishings and clothing Auto (personal share) Dwelling otal household and personal assets OTAL ASSETS Federal Land Bank mortgage FHA real estate mortgage Other mortgages on land operated Production Credit Association FHA chattel mortgage Other chattel mortgages Notes payable Accounts payable	319 1791 41 1070 700 2379 345 3300 \$ 9945 47196 2099 1925 6389 853 789 3613 1281 330	430 1893 201 1384 325 659 2536 262 3615 \$11305 55647 3347 1894 11798 2876 - 3403 994 945	171 510 28 164 1410 1860 496 \$ 4639 27057 - 1000 - 2667 7124 684	177 620 25 224 1479 1900 392 \$ 4817 26999 - 1155 914 8427 449
Life insurance Accounts receivable Shares in co-ops Outside real estate Cash on hand Household furnishings and clothing Auto (personal share) Dwelling otal household and personal assets OTAL ASSETS Federal Land Bank mortgage FHA real estate mortgage Other mortgages on land operated Production Credit Association FHA chattel mortgage Other chattel mortgages Notes payable Accounts payable OTAL LIABILITIES	319 1791 41 1070 700 2379 345 3300 \$ 9945 47196 2099 1925 6389 853 789 3613 1281 330 \$17279	430 1893 201 1384 325 659 2536 262 3615 \$11305 55647 3347 1894 11798 2876 3403 994 945 \$25257	171 510 28 164 1410 1860 496 - \$ 4639 27057 - 1000 2667 7124 684 \$11475	177 620 25 224 - 1479 1900 392 - \$ 4817 26999 - 1155 - 914 8427 449 \$10945
Life insurance Accounts receivable Shares in co-ops Outside real estate Cash on hand Household furnishings and clothing Auto (personal share) Dwelling otal household and personal assets OTAL ASSETS Federal Land Bank mortgage FHA real estate mortgage Other mortgages on land operated Production Credit Association FHA chattel mortgage Other chattel mortgages Notes payable	319 1791 41 1070 700 2379 345 3300 \$ 9945 47196 2099 1925 6389 853 789 3613 1281 330	430 1893 201 1384 325 659 2536 262 3615 \$11305 55647 3347 1894 11798 2876 - 3403 994 945	171 510 28 164 1410 1860 496 \$ 4639 27057 - 1000 - 2667 7124 684	177 620 25 224 - 1479 1900 392 - \$ 4817 26999 - 1155 - 914 8427 449

Table 7. Summary of Farm Earnings by Tenure, 1964 (Operator's Share)

	77			
Timesters	Your	11	9 part	5
Items	farm	owners	owners	renters
FARM RECEIPTS		\$ 921	\$ 1002	\$ 351
Dairy cattle	2	\$ 921 4086	\$ 1003	
Dairy products		6578	3959	2912 7143
Beef cattle (including feeders)		6538	5947 6208	
Hogs		19	0200	4291 358
Sheep and wool (incl. feeders)	Section 10 Telephone	19	176	
Poultry (incl. turkeys)		21	3732	7 147
Eggs Corn		787	368	1530
Small grain		471	484	1391
Other crops		878	2138	1743
Mach. and equip. sold, gas tax		218	265	341
Income from work off the farm		165	217	932
Miscellaneous		358	406	439
(1) Total farm sales		\$21040	\$24903	\$21585
(2) Increase in farm capital		422010	7091	+L±J0J
(3) Family living from the farm		175	224	423
(4) Total farm receipts 1+2+3		\$21215	\$32218	\$22008
FARM EXPENSES		46161)	4)2210	422000
Dairy cattle bought		\$ 364	\$ 363	\$ 345
Beef cattle bought (incl. feeders)		2164	2241	3747
Hogs bought		371	203	12
Sheep bought (incl. feeders)		J(±		
Poultry bought (incl. turkeys)		23	523	3
Miscellaneous livestock expense	(536	827	424
Feed bought	4	4919	5041	3694
Fertilizers bought		736	1350	965
Other crop expense		681	944	713
Custom work hired		889	672	932
Gas, oil, grease bought (farm sh.)		823	1092	947
Rep. of mech. power (farm share)		622	661	458
Rep. & upkeep of real estate		270	342	244
Rep. & upkeep of crop & gen. mach.		286	435	345
Rep. & upkeep of livestock equip.		144	162	55
Wages of hired labor		155	992	479
Electric expense (farm share)		217	263	192
Real estate & pers. prop. taxes		85 <u>1</u>	514	168
Cash rent	Water Design		408	1500
General farm expense		321	306	236
Interest paid		<u> 1632</u>	<u> 1068</u>	<u>468</u>
(5) Total cash operating expense		\$16004	\$18407	\$15927
(6) Capital purchases -mech power		554	1034	658
(7) Capital purchases-c. & g. mach.		681	1131	877
(8) Capital purchases-lvstk equip.		390	199	265
(9) Capital purchases-bldgs, land		150	7976	
(10) Total farm purchases		\$17779	\$28747	\$17727
(11) Decrease in farm capital		3158	-	236
(12) Interest on farm capital		1048	972	647
(13) Unpaid family labor		578	542	153
(14) Board for hired labor		15	75	56
(15) Total farm expenses		\$22578	\$30336	\$18819
(16) Labor earnings 4-15	Street Agency Street	-1363	1882	3189
(17) Ret. to cap. & family labor		263	3396	3989
12+13+16		>		
± 27 . ± 2				

RETURNS TO CAPITAL AND FAMILY LABOR

The return to capital and family labor represents the amount available to the operator for living expenses, payment on indebtedness, and savings. The landlord's expenses and receipts are not included.

The average return to capital and family labor for 11 owners, 9 part owners, and 5 renters is shown in Table 7. The statement includes only the operator's share of the earnings of a partnership. The earnings as shown in Table 7 are on an actual basis as compared to the full-owner basis in Table 2 and 3.

RANGE IN EARNINGS

Every study of farm earnings shows a wide variation in earnings among farmers in a given year (figure 1). The average labor earnings of those farmers ranking in the upper 33 percent of the range, according to earnings, was \$5167 and of those in the lower 33 percent, \$-3001. This is a range of \$8168 between the average earnings of these two groups. Some of these causes for the differences in earnings, such as weather, may be beyond the control of the individual farmer. Other factors are within his control. The more important management factors affecting earnings are as follows: (These factors vary from year to year in their relative influence on earnings.)*

- 1. Crop yields
- 2. Choice of crops
- 3. Return from livestock
- 4. Amount of livestock

- 5. Size of business
- 6. Work units per worker
- 7. Control over expense

Labor Earnings:

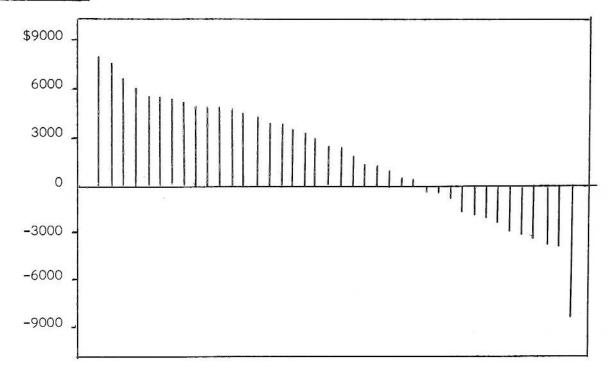


Figure 1. Range in labor earnings. Each line represents the earning of one.

^{*} See Pond, G. A., "Why Farm Earnings Vary." Minnesota Agricultural Experiment Station Bulletin 386, June 1945, and Nodland, T. R. and Pond, G. A., "Some Factors Affecting the Earnings of Farmers in Southwestern Minnesota." University of Minnesota Department of Agricultural Economics, No. 219, November 1954.

EXPLANATION OF "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, working on crops and productive livestock at average efficiency, or ten hours of work off the farm for pay. The number of work units for each class of livestock and each acre of crop are presented in Table 8.

Table 8. Number of Work Units for Each Class of Livestock and Each Acre of Crop

	No. of		No. of
Item	work units	Item	work units
Dairy cows	10.0 per cow	Small grain	.5 per acre
Other dairy cattle	3.5 per an. unit*	Sugar beets	1.5 per acre
Beef breeding herd	3.5 per an. unit	Sweet corn	.7 per acre
Feeder cattle	.25 per 100 pounds	Corn husked	.7 per acre
Sheep - farm flock	1.5 per an. unit	Corn silage	1.0 per acre
Sheep - feeders	.3 per 100 pounds	Alfalfa hay	.6 per acre
Hogs	.2 per 100 pounds	Soybean hay	.8 per acre
Turkeys	.5 per 100 pounds	Other hay crop	.4 per acre
Hens	20.0 per 100	Canning peas	.5 per acre
	hens	Soybeans for grain	.5 per acre

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

Table 9. Measure of Farm Organization and Management Efficiency, 1964

Meas page	ures used in chart on 13	Your farm	Average of 40 farms	13 most profitable farms	13 least profitable farms
	r earnings	\$	\$ 1364	\$ 5167	\$-3001
(1)	Crop yields		100	117	84
	Percent tillable land in high return crops*		54.9	59.4	54.1
	Return for \$100 feed fed to productive livestock**		100	115	85
	Productive livestock units per 100 acres***		32.1	27.2	26.1
(5)	Size of businesswork units		545	688	471
(6)	Work units per worker		341	362	277
(7)	Power, machinery, equipment, building expense per work uni	.t	\$9.86	\$7.93	\$11.43
Item	s related to some of the abov	re measures			
(3)	Index of return for \$100 feed Dairy cattle (pp. 18 & 19) Beef breed herd Beef cattle feeders (p. 20 Hogs (p. 17) Sheepfarm flock Chickens (p. 21)		100 100 100 100 100	101 - 124 105 - 124	89 - 90 83 - 78
(4)	Number of animal units		84.0	95.1	73.6
(5)	Work units on crops Work units on prod. lvstk. Other work units		144 389 12	165 507 16	142 322 7
(6)	Number of family workers Number of hired workers Total number of workers		1.4 .2 1.6	1.5 <u>.4</u> 1.9	1.5 <u>.2</u> 1.7
(7)	Power expense per work unit Crop mach exp per work unit Lystk equip exp per work unit Bldg-fenc.exp. per work unit		\$4.91 2.19 .83 1.93	\$3.67 1.96 .67 1.63	\$5.74 2.59 .77 2.33

^{*} Crops are marked in Table 10 as A, B, C, and D. All of the acres in A crops, one-half the acres in B crops, and one-fourth the acres in C crops are used in calculating percent of tillable land in high return crops.

^{**} An index weighted by the animal units of livestock.

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

THERMOMETER CHART

Using your figures from page 12, locate your standing with respect to the various measures of farm organization and management efficiency. The average for the 40 farms included in this summary are located between the dotted lines across the center of this page.

	25							
Oper. labor earn-		High return	Return from pro- ductive	Pr. L units per		Work units per		mach.
ings	yields	crops	livestock			worker		unit
\$6950	164	79	140	48	950		6.00	
6250	156	76	135	46	900	525	6.50	-
5550	148	73	130	44	850	500	7.00	
4850	140	70	125	42	800	475	7.50	
4150	132	67	120	40	750	450	8.00	4
3450	124	64	115	38	700	425	8.50	-
2750	116	61	110	36	650	400	9.00	
2050	108	58	105	34 =	600	375	9.50	
1350	100	55	100	32	550	350 1	0.00	<u> </u>
650	92	52	95	30	500	325	0.50	-
- 50	84	49	90	28	450	300	1.00	_
- 750	76	46	85	26	400	275	1.50 E	
-1450	68	43	80=	24	350	250 = 1	2.00	_
-2150	60	40	75	22	300	225	2.50	
-2850	52	37	70	20	250	200	.3.00	
-3550	44	34	65	18	200	175	.3.50	
			E	El		E		
\bigcirc		\bigcirc	\bigcirc	\bigcirc	\Box	\Box	\Box) T

Table 10. Distribution of Acres in Farm, 1964

Crop	Crop	Number growing this crop	Your farm	Average of 40 farms	Ave. per farm growing each crop
Flax Barley Wheat Oat silage Oats and oat mixture Miscellaneous Total small grain and peas	CCCDD	7 2 20 5 38 2 40		4.0 .6 9.6 1.6 40.4 .4 56.6	23.0 11.8 19.2 13.0 42.5 8.0
Potatoes Corn grain Soybeans for grain Sweet corn Corn or sorghum silage Total cultivated crops	A A B A B	1 36 18 1 34 40		.1 65.3 18.7 .8 32.7 117.6	4.5 72.6 41.6 30.0 37.8
Alfalfa hay Other hay and seed crops Total tillable land in hay	B D	39 9 39		41.2 2.8 44.0	42.3 12.6
Alfalfa pasture Other tillable pasture Total tillable land in pastur	B D	13 5 17		5.9 1.6 7.5	18.1 13.2
Soil bank	В	13		10.3	31.8
Tillable land not cropped	D	2		5	9.0
Total tillable land		40		236.5	
Wild hay Non-tillable pasture Timber (not pastured) Roads and waste Farmstead Total acres in farm		16 28 11		3.9 33.2 6.2 19.8 9.8 309.4	9.8 47.4 22.5
Percent land tillable Percent tillable land in high	return o	rops		76.4 54.9	

Table 11. Crop Yields per Acre, 1964

Crop	Your farm	Average of farms growing each crop
Flax, bu. Barley, bu. Wheat, bu. Oat silage, tons		12.5 48.8 19.6 4.7
Oats, bu. Corn grain, bu. Soybeans, bu. Corn silage, tons		44.6 36.7 13.1 7.5
Alfalfa hay, tons Soil bank, dollars Wild hay, tons		2.4 \$35.62 •7

POWER AND MACHINERY EXPENSES

Power and machinery expense per crop acre is an indication of the economy with which capital is invested in these items. The crop acres per farm ranged from 77 to 560, with an average of 222 (table 12). The expenses are high on the farms with a small acreage. In some cases, the low expenses for labor might be offset by high power and equipment costs. The farmer is interested in operating at the lowest cost for power, machinery and labor combined.

Table 12. Power and Machinery Expenses per Crop Acre, 1964

Item	Your farm	Average of 40 farms	13 most profitable farms	l3 least profitable farms
Crop acres per farm Tractor expense per crop acre		222 \$5.05	258 \$3.89	217 \$4.92
Crop & general machinery ex-	-			62 17 2 2
pense per crop acre		5.29	4.88	4.9

Table 13. Amount of Livestock, 1964

<u>Item</u>	Your farm	Average of 40 farms	13 most profitable farms	13 least profitable farms
Number of milk cows		17.7	17.6	17.1
Number of other dairy cattle		23.0	20.9	24.7
Number of beef cows		3.6	6.3	4.9
Number of feeder cattle		24.2	25.6	15.9
Number of ewes		7.1	16.9	1.3
Number of hens		343	912	97
Litters of pigs raised		16.2	12.6	16.2
Pounds of feeder cattle produced		12952	15175	6267
Pounds of hogs produced		27436	23084	24216

TOTAL FEED COSTS AND RETURNS FROM YOUR LIVESTOCK ENTERPRISES

The total "return over feed costs" for each class of livestock is shown in Table 14. 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 total return is the same as the returns and net increases shown on page 5. The value of milk consumed by calves is included in the total returns from dairy or dual purpose cows and in the total feed cost for other 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 14. Total Feed Costs and Returns from Your Livestock Enterprises, 1964

	Dairy cattl	e	Beef breeding
Cows	Other	A <u>ll</u>	herd

	8		
-			<u></u>
Feeder cattle	Hogs	Farm flock of sheep	Chickens
	, 		
	Feeder	Cows Other	Feeder Farm flock

Feed is the largest single item of cost for all classes of livestock. However, the proportion of the total cost represented by feed varies considerably between classes of livestock. Feed makes up approximately 45 percent of the total costs of maintaining dairy cattle and poultry, 50 percent in the case of a farm flock of sheep, and 75 to 90 percent for hogs, feeder cattle and feeder lambs. Consequently, it is necessary to secure a relatively higher return over feed from dairy cattle and poultry than from the other livestock enterprises in order to be able to cover all the costs other than feed.

HOGS

The return over feed cost per 100 pounds of hogs produced averaged \$3.26 for 22 farms with breeding stock. Three farms with purchased feeder pigs averaged \$2.38 return over feed. Some of the important factors that affected return over feed were:

- 1. Quantity of feed required to produce 100 pounds of hogs.
- 2. Price received.
- 3. Number of pigs born per litter.
- 4. Number of pigs weaned per litter.

Table 15. Feed Costs and Returns from Hogs, 1964

Items	Your farm	Average of 22 farms with breeding	with purchased
1 cents	1 aTill	stock	feeder pigs
Feed per cwt. hogs produced, lbs.: Corn Small grain Commercial feeds Total concentrates		311 108 <u>97</u> 516	428 27 <u>20</u> 475
Feed cost per cwt. produced	\$	\$12.03	\$10.30
Net increase in value per cwt. produced Return above feed cost per cwt.	\$	15.29	12.68
produced	\$	3.26	2.38
RETURN FOR \$100 FEED	\$	\$134	\$138
Price received per cwt. sold	\$	\$15.44	14.53
Total number of litters raised		29	0
No. of pigs born per litter No. of pigs weaned per litter		9.5 7.7	-
No. of feeder pigs purchased	-	8	88
Total weight of feeders purchased Price paid per feeder pig	\$	344 \$ \$11.71	3683 \$11.05
Pounds of hogs produced		47590 16	5042

DAIRY CATTLE

The quantity of feed consumed, value of feeds and returns from dairy cattle are presented in Tables 16, 17, and 18.

The return over feed cost per cow varied from \$-32.49 to \$311.81 among the 26 herds covered by this study. Some of the important factors that affected the return over feed were:

- 1. Rate of production (pounds butterfat per cow)
- 2. Price received for butterfat.
- 3. Feeding efficiency.
- 4. Quality of ration.
- 5. Economy of ration (feed cost per pound butterfat)

Table 16. Factors of Cost and Returns from Dairy Cows, 1964

Items	Your Farm	Average of 26 farms	13 farms highest in butterfat per cow	13 farms lowest in butterfat per cow
1 cents	1 02			
Pounds of butterfat per cow Pounds of milk per cow Percent fat in milk Price rec. per 1b. B.F. sold(¢)		388 10831 3.6 91.6 \$3.31	431 12104 3.6 91.9 \$3.29	345 9559 3.6 91.3 \$3.34
Price rec. per 100 lbs. milk		\$3.31	\$3.29	\$3.34
Feeds per cow, lbs.: Corn Small grain Commercial feeds		2054 1227 682	2261 1118 777	1846 1336 588
Legume hay Other hay		5850 15	5776 -	5924 30
Total concentrates Total dry roughage Silage		3963 5865 11347	4156 5776 11570	3770 5954 11126
Feed cost per cow: Concentrates Roughages Pasture TOTAL FEED COSTS		\$91.79 95.14 <u>9.44</u> \$196.37	\$96.86 94.67 <u>8.85</u> \$200.38	\$86.73 95.61 10.04 \$192.38
Value of produce per cow: B. F. sales Dairy produce used in house Milk to livestock Net increase in value of cows TOTAL VALUE PRODUCED		\$347.95 4.57 3.23 -7.57 \$348.18	\$388.44 4.07 4.28 -6.87 \$389.92	\$307.49 5.07 2.17 -8.27 \$306.46
RETURNS ABOVE FEED COST PER COW		\$151.81	\$189.54	\$114.08
RETURNS FOR \$100 FEED		\$185	\$196	\$174
Feed cost per 1b. B. F. (Cents)		50.6	46.5	55.6
Number of cows*		27.1	28.7	25.4

^{*}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.

Table 17. Feed Costs and Returns from Other Dairy Cattle, 1964

		Average	13 farms highest in	13 farms lowest in
	Your	of 26	butterfat	butterfat
Items	Farm	farms	per cow	per cow
Feeds per head, lbs.:				
Concentrates		1082	1105	1060
Hay and fodder	Tradescale address december and	2622	2213	3031
Silage	****	3880	3672	4087
Whole milk		67	91	43
Feed cost per head:				
Concentrates		\$25.49	\$24.04	\$26.93
Roughages	**********	38.23	32.77	43.69
Milk		2.25	3.01	1.49
Pasture		3.50	2.79	4.21
TOTAL FEED COSTS PER HEAD	(Alexander de Alexander)	\$69.47	\$62.61	\$76.32
Net inc. in value of other ca	attl <u>e</u>	80.49	83.92	77.06
RETURNS ABOVE FEED COST PER F	HEAD	11.02	21.31	.74
RETURNS FOR \$100 OF FEED		\$141	\$142	\$140
Number of head of other catt	le	35.2	38.6	31.9

Table 18. Feed Costs and Returns from all Dairy Cattle, 1964 13 farms 13 farms Average highest in lowest in of 26 Your butterfat butterfat Items Farm farms per cow per cow Feeds per cow, lbs.: Concentrates 5110 5494 4725 Hay and fodder 8802 8667 8937 Silage 16460 16844 16075 TOTAL FEED COSTS PER COW \$271.90 \$277.94 \$265.86 Value of produce per cow: \$52.53 \$392.50 \$312.55 Dairy products Net inc. in value dairy cattle 88.83 99.92 77.73 \$492.42 \$390.28 TOTAL VALUE PRODUCED \$441.36 RETURNS ABOVE FEED PER COW \$169.46 \$214.48 \$124.42 RETURNS PER \$100 OF FEED \$171 \$179 \$162

Table 19. Feed Costs and Returns from Feeding Cattle, 1964

		Average
	Your	of 16
Items	Farm	farms
eeds per cwt. beef produced:		
Corn		444
Small grain		18
Commercial feeds		45
Legume hay		308
Other hay	****	
Total concentrates		507
Total hay and fodder	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	308
Silage		804
eed cost per cwt. beef produced:		
Concentrates		\$11.43
Roughages	A CONTRACT CONTRACT	5.53
Pasture		.23
TOTAL FEED COSTS		\$17.19
et increase in value of feeders		\$18.81
ETURNS ABOVE FEED COST PER CWT. BEEF PRODUCED		1.62
ETURNS FOR \$100 OF FEED		\$119
rice paid per cwt. beef bought	(\$19.27
rice rec'd for feeder cattle sold		\$20.07
umber of animal units		59.7
Counds of beef produced		32696

CHICKENS

The average return over feed from the 9 flocks included in this report was 57 cents per hen (Table 21).

Some of the important factors that affected the return over feed were:

- 1. Quantity of feed required per hen.
- 2. Price received per dozen eggs sold.
- Eggs laid per hen.
 Per cent of hens that are pullets.
- 5. Percentage death loss of hens.

Table 20. Feed Costs and Returns from Chickens, 1964*

/		Average
φ^{*}	Your	of 9
Items	Farm	farms
Feed per hen, lbs.:		82.70
Crain		64
Commercial feed	***************************************	<u>46</u> 110
Total Concentrates		110
TOTAL FEED COST PER HEN		\$3.16
/alue of produce per hen: Eggs sold & used in house		\$4.17
Net increase in value of ch	ickens	11-11-11-11-11-11-11-11-11-11-11-11-11-
TOTAL VALUE PRODUCED	LOKE 115	<u>44</u> 3.73
TOTAL VALUE TROBUGED	-	3,,3
RETURNS ABOVE FEED COST PER H	EN	.57
DELIBNO FOR \$100 OF FEED		\$124
RETURNS FOR \$100 OF FEED	/\ 	24.9
Price rec'd per doz.eggs sold	(CTS)	200
Eggs laid per hen		200
Ave. No. hens on farm during		1520
Per cent of hens that are pul	lets	82
Per cent death loss of hens		7
No. of chicks bought - pullet:	S	980
	ht run	78
- cocker		46
		866

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

Table 21. Summary of Miscellaneous Items by Years

	1953-58	1959	1960	1961	1962	1963	1964
Acres in Farm	1700 30	1707	1/00				
Small grains	72.1	34.3	64.5	83	76.6	66.4	56.6
Cultivated crops	88.8	172.2	153.7	146	129.6	98.2	117.6
Tillable land in hay	31.8	30.9	32.7	31	35.2	37.9	44.0
Tillable land in pasture	12.1	5.2	7.6	9	11.1	10.5	7.5
Soil Bank	1.5			25	27.9	11.8	10.3
Tillable land not cropped	2.0		1.9	1_	9	1.1	.5
Total tillable land	208.3	242.6	260.4	295	281.3	225.9	236.5
Wild hay & non-till. past.	28.9	22.9	32.8	26	32.4	34.2	37.1
Other non-tillable land	32.2	<u>37.5</u>	25.5	<u>27</u>	27.5	31.0	35.8
Total acres in farm	269.4	303.0	318.7	348	341.2	291.1	309.4
Yields per acre	272 12	121 21			0.7	10 E	10 5
Flax, bu.	10.5	8.9	13.1	11.2		12.5	12.5
Barley, bu.	32.2	38.1	37.7	39.5		44.9	48.8 19.6
Wheat, bu.	20.9	22.4		27.0		26.6 55.8	44.6
Oats, bu.	41.4	43.1	55.6	56.6		9.2	44.0
Oat silage, ton	- 40 1	5.8	5.8	8.6		65.0	36.7
Corn grain, bu.	49.1	48.8		55.0		24.8	13.1
Soybeans, bu.	19.5	19.7		20.3 10.5		10.2	7.5
Corn silage, tons	8.8	10.3	10.3 2.8	2.0		3.4	2.4
Alfalfa hay, tons	2.6	2.6	2.0	2.0	2.0	3.4	2.
Measures of farm org. & management	nt:						
Percent of land in high return	200000 6000					0	- 4 O
crops	51.6	67.2		57.5		55.3	54.9
Prod. L.S. units per 100 A	19.3	38.0	23.3	24.6		29.5	32.1
Size of bus. work units	347.8	519	469	540	470	513	545 341
Work units per worker	235.2	325	312	338	297	342	\$9.86
Exp. per work unit	\$11.26	\$11.64	\$10.64	\$10.44	\$13.52	\$10.47	39.00
Return above feed cost per:	***	1.45.00	£110 44	#171 16	157 42	#104 00	\$151.81
Dairy cow			\$119.44			23.43	
An. unit in beef breeding herd		76.52			26.05 8.34	-3.06	
100 lbs. feeder cattle prod.	3.41	2.30	3.92	5.41 5.34		3.55	3.15
100 lbs. hogs produced	6.11	1.07		3.79		5.03	4.72
Ewe	4.65	14	.97 .78	1.64		.72	.57
Hen	1.20	14	• 18	1.04	• 70	. 12	.57
Feed cost per:	¢125 00¢	126 10	\$147.80	¢174.51	174.29	\$175.67	\$196.37
2-1	13.52			73.54		98.99	92.15
An . unit in beef breeding herd	19.21	17.92		15.56			17.19
100 lbs. feed cattle produced	11.81	9.91		9.83			11.82
100 lbs. hogs produced Ewe	7.91	7.71		9.39			20.71
Hen	3.75	3.95		3.54			3.16
11011		7 7 7					

Table 21. Summary of Miscellaneous Items by Years (Continued)

	1953-58	1959	1960	1961	1962	1963	1964
Misc. livestock information	on						
No. dairy cows	14.30	17	10.4	8.7	10.6	15.0	17.7
Lbs. beef produced	11780	30424	12299	13624	12542	15067	12952
Litter of pigs	9.3		13.0	19.3	17.4	12.7	16.2
Lbs. hogs produced	18198	33173	27936	40612	29777	23261	27436
Number of hens	247	291	276	317	251	229	343
Lbs. butterfat per cow	280	311	324	364.6	361	354	388
No. pigs weaned/litter	6.5	7.3	6.5	6.6	6.8	7.5	7.7
Percent lamb crop			197	101	90	108	117
Eggs per hen	180	199	161	215	204	206	200
Price received per:							
Lb. butterfat (cts.)	86.5	88.7	87.3	88.8	94.1	87.7	91.6
100 lbs. fat cattle	\$19.58	\$25.10	\$22.89	\$22.36	\$23.93	\$20.52	\$20.07
100 lbs. hogs	18.29	14.05	15.37	16.24	17.45	15.27	15.33
100 lbs. lambs	15.63		17.84	14.26	19.09	19.81	20.44
Lbs. of wool	.34		.43	.50	.45	.55	.59
Dozen eggs (cts)	32.1	24.8	28.2	29.5	26.8	26.8	24.9
Price of feed:							
Corn, bu.	\$1.20	\$.98	\$.96	\$.94	\$.96	\$1.05	\$1.06
Oats, bu.	.63	.58	.58	.60	.61	.62	.63
Barley, bu.	.97	.92	.87	.93	.99	.84	.90
Alfalfa hay, ton	17.46	22.00	19.50	19.50	19.00	18.50	20.00
Timothy hay, ton	10.22	11.50	11.10	11.30	11.00	10.70	11.60
Corn silage, ton	5.90	6.60	6.50	6.75	6.50	6.25	6.75
Soybean meal, cwt.	3.84	3.85	3.83	4.35	4.40	4.60	4.60

Table 22. Summary of Farm Earnings by Years

	1953-58	1959	1960	1961	1962	1963	1964
Number of farms	39	16	38	35	43	45	40
FARM RECEIPTS			2 7 5.1	32		N	¥ 28 88
Dairy cattle	\$ 726	\$ 724	\$ 768	\$ 970	\$ 997	\$ 1367	\$ 1487
Dairy products	2342	2682	2856	2966	3412	4621	6193
Beef cattle	3000	15373	6033	5802	6789	6301	5401
Hogs	2742	5906	4535	6551	5452	3547	4346
Sheep and wool	131	65	182	1020	313	238	171
Horses	6	-	770	7.116	76	1579	83
Poultry	103	90	112 1364	146 2371	1394	1361	1896
Eggs	825 1537	1369 2290	3268	3278	2511	1774	936
Corn	1315	753	1342	2611	1883	1283	689
Small grain	995	1190	1558	2297	1931	1605	1407
Other crops Machinery & equipment sold	203	265	256	361	487	336	309
Income from work off farm	339	319	347	572	414	475	339
Miscellaneous	185	217	180	526	856	348	416
Total farm sales	\$14449	\$31243	\$22801	\$29471	\$26515	\$24835	\$23673
Increase in farm capital	1612	920	4044	1473	2448	3025	537
Family living from farm	249	244	286	<u>316</u>	295	306	302
Total farm receipts	\$16310	\$32407	\$27131	\$31260	\$29258	\$28166	\$24512
FARM EXPENSES							
Dairy cattle bought	\$ 226	\$ -	\$ 236	\$ 140	\$ 239	\$ 139	\$ 399
Beef cattle bought	1630	5250	3549	3477	3922	3493	2429
Hogs bought	307	4165	745	761	607	295	292
Sheep bought	38	591	345	42	49	47	
Horses bought	4	-	-	-	2	-	-
Poultry bought	101	253	118	321	282	461	540
Miscellaneous livestock exp.	256	530	482	597	612	658	621
Feed bought	1796	6489	3877	4623	4701	5655	4389
Fertilizers	341	901	714	933	795	669	890
Other crop expenses	529	874	790	855	953	796	847
Custom work hired	478	674	588	752	636	859	850
Gas, oil, grease bought	821	1127	1130	1123	1164	982	988
Repairs for mechanical power	363	555	562	620	624	573	592 322
Rep. & upkeep of real estate	166	141	166	257	321 502	271 391	38
Rep. of crop machinery	296	498	388 9 2	565 146	129	127	149
Rep. of livestock equipment	85 434	156 896	431	876	799	502	49
Wages of hired labor	148	246	238	278	255	257	29
Electricity expense		943	966	1169	983	946	1016
Real est. & pers. prop. taxe General farm expense	174	321	240	304	304	287	340
Total cash operating exp.	\$ 8751	\$24610	\$15657	\$17839	\$17879	\$17408	\$15842
Cap. purchmech. power	667	804	487	614	939	542	765
Cap. purchcr. & gen. mach.	894	1400	1214	1152	1328	999	999
Cap. purchlvstk. equip.	215	688	369	424	476	495	708
Cap. purchbldg. & fencing	561	603	602	<u> 1566</u>	989	1479	892
Total farm purchases	\$11088	\$28105	\$18329	\$21595	\$21611	\$20923	\$19206
Decrease in farm capital	-	_		_	-	-	07.1-6
Interest on farm capital	2118	3609	3240	3530	3238	2912	314
Unpaid family labor	321	263	381	345	341	604	73
Board for hired labor	97	135	40	100	147	65 Califoli	\$227/19
Total farm expense	\$13624	\$32112	\$21990	\$25570	\$25337	\$24504	\$23148
Labor earnings	2686	295	5141	5690	3921	3662	136
Net cash income	3361	3138	4472	7876	4904	3912	4467

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