### 1957 Annual Report

# FARM MANAGEMENT PROGRAM NORTHEASTERN MINNESOTA

# Iron Range Resources and Rehabilitation Commission

In Cooperation with

Minnesota Department of Education

Vocational Division

and

**University of Minnesota**Institute of Agriculture

and

Area Vocational – Technical School Duluth, Minnesota

#### FCREWORD

In 1956 the Iron Range Resources and Rehabilitation Commission initiated a farm income study in ten of the Northeast counties of Linnesota, an area commonly referred to as the cutover area. Although the project had a mid-year start, twenty-eight farm records were completed for the Summary Report.

The program continued in 1957 with increased interest and participation resulting in eighty—two farm records summarized in this report.

It has long been felt that the agricultural problems in this area are different from those in other parts of the state. In general, the farms are small and incomes are low.

This study, the first of its kind in the cutover area, is therefore both timely and appropriate.

Field work for Iron Range Resources and Rehabilitation Commission was handled by August Neubauer with offices in the St. Louis County Court House, Virginia, Minnesota.

Special acknowledgement is made to Mr. Leo Keskinen, Vocational Agriculture Instructor at the Duluth Area Vocational Technical School, for his direction and supervision in the preparation of the Summary Report and his work on the analysis.

Vocational Agriculture Instructors and County Agents of the area have given freely of their time to assist farm participants in establishing adequate farm records. Instructors of Veterans Agriculture have also aided in the success of the program.

This farm management program is free to farm participants in the IRRRC area and it is hoped that the information published will be extensively used by people in public service, farmers of Northeast Minnesota, and others interested in bringing about an improved farm economy for the area.

Karrloff. Otava Commissioner

Hyron Sorenson Asst. Commissioner

## 1957 NOTORT OF THE VOCATIONAL AGRICULTURE FARM MINIGENENT PROGRAM IN MORTHLASTERN NUMBERSOTA

# Leo Koskinen Duluth Area Vocational School

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#### LATRIBUCTION

The nain purposes of the program of farm analysis are: (1) to give assistance to instructors and county agents in the mechanics of farm record supervision, (2) to assist instructors, county agents, and cooperating farmers in farm accounting techniques, (3) to aid individual farmers in the study of their farm business through analysis reports, and (4) to provide case study materials that can be used by farmers and farm groups to study farm management problems.

The report and analysis of records were completed under the direction of Leo Keskinen, Vocational Agriculture Instructor, Duluth Area Vocational-Technical School. Clerical assistants were: Mrs. Mellic Hopper, Mrs. Marjorie Barron, Mrs. Esther Oman, and Mrs. Ruby Sweeney. Directing in a supervisory capacity were: Alvin T. Stolen, Superintendent of Duluth Public Schools, George Campaigne, Director of the Duluth Area Vocational-Technical School, G R Cochran, State Supervisor of Agricultural Education, and S K, Wick, Acting Director of the Vocational Division, State Department of Education. Promotional and other assistance was provided by Milo Peterson, Head Professor of Agricultural Education, University of Minnesota, and Lauren Granger, State Coordinator for the Vo-Ag Farm Management Service. Acknowledgement is also made of the excellent professional assistance rendered by G A. Pond, Truman Nodland, E. H. Hartmanns, and Harland Routhe, of the Institute of Agriculture, University of Minnesota.

Special acknowledgement is made for the direction, interest, and financial assistance provided by the Iron Range Resources and Rehabilitation Commission with Kaarlo Otava, Commissioner, and Hyrom Sorenson, Assistant Commissioner. Field work and contacts with cooperators has been capably handled by August Neubauer, IRRRC Field Man. The IRRRC grant has financed the cost of the entire analysis project with the exception of several cooperators from an area not under IRRRC jurisdiction. These fermers (Todd County) have paid a set fee to cover their part of the analysis. The area covered by this report is outlined on the map inside of the front cover.

Special mention and thanks are due also to the Architectural Drafting Class of the Duluth Area Vocational-Technical School and to the Printing Classes of the Duluth Public Schools for their part in the publication of this report.

Agriculture Instructors submitting 1957 records for analysis were:

SCHOOL	INSTRUCTOR	SCHOOL	INSTRUCTOR
Alango Bagley Barnum Benidji Clarissa Embarrass Grand Rapids Hibbing Hinekley	Robert Anderson Kenneth Ostlund Robert Johnson Dalton Seeling Elmer Fragodt Ed Takala Gerhard Erickson Sulo Ojakangas Richard Mitton	Littlefork Meadowlands Hoose Lake * Northome Park Rapids Pillager Pine River * Staples Willow River	Wilho Kemp Leo Wilenius Sherrill Robinson Clayton Bray Robert Underwood Martin Klingenberg Dr. C. V Williams William Guelker Erwin Pracher
		,	

(\* Veterans Ag Instructors)

County Agricultural Agents and Rural Development Agents submitting records were:

COUNTY	AGENT
Carlton Clearwater	Sig Restad
Hubbard	Arnold Heikkila John Eix

Hul Itasca Art Frick Lake of the Woods Robert Ashenan J O. Jacobson West St. Louis

The above cooperating centers submitted records from eleven counties for analysis with some centers having participating farmers in more than one county. The number of farm records submitted from each county is shown below:

Beltrami	6	Koochiching	15
Carlton	5	Lake of the Woods	ĺ
Cass	14	Pine	8
Clearwater	3	St. Louis	10
Hubbard	13	Todd *	4
Itasca	4		·······································
		Total	82
		(* Not IRRRC Arca)	

The records submitted included farm inventories, cash receipts, and expenses. Also included were feed consumed by the various classes of livestock, family living from the farm, household and personal expenses and receipts, and the operators liabilities and assets other than farm capital.

#### FARM INVENTORIES

The capital investment per farm varied from \$7004 to \$56,544. The average investment for all farms included in this report and for the one-third high and the one-third low in operators' labor carnings is shown in Table I.

#### FARM EARMINGS

Operators' earnings are a measure of relative financial success of a farmer as commared with other farmers and represents the returns above all farm expenses and a charge for the use of farm capital and family labor other than that of the operator.

There are two nethods of computing labor carmings. Table II shows the earnings at moment on a cash basis while Table III shows the earnings on an enterprise of accrual basis. The principal distributions in the two statements is in the method of hardling the net increase or decrease in 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.

A portion of the fare income in Northeastern Hinnesota is obtained from the sale of forestry products. Fifteen fares out of the eighty-two represented in this report indicated some form of forestry income ranging from a low of \$69 to a high of \$4043 per farm. The average forestry income per farm (average of all \$2 forms) amounted to \$161.34, or 2% of total farm income received. Forestry income is included as farm income in this report.

#### NON-FARM INCOME

Numerous Northeastern Minnesota farmers, in addition to their farm income, are earning additional income by employment in full or part time work not related to farming. Records submitted for this report cannot be considered as completely reliable in respect to non-farm income as this entry can be frequently emitted from the farm account books. Movever, 47 farms of the 82 did show outside income in addition to farm labor carnings ranging from a low of \$8 to a high of \$4799 per farm involved. For these cooperators who showed non-farm income, the average non-farm income per farm (47 farms) was \$1109.95, or 7.3% of total income received by this group. This non-farm income is not included in this report as farm labor cermings.

TIBLE I SUMMINY OF FARM INVENTORIES, 1957

	V	. 17	• • • • • • • • • • • • • • • • • • • •	0.00
Itoms	Jen. 1	Doc. 31	Average of Jan. 1	Doc. 31
Size of farm (acres)			259	
Size of business (work units)	Barrella about about		329	
Duint and dual numbers acre			ë <b>07.0</b> 4	Ó 00//
Dairy and dual purpose cows Other dairy & dual purpose cattle	Buddles and the second of	Landause & Spinger	\$ 2194 983	\$ 2366 1058
Beef cattle (incl. feeders)	Market About the sale of	Maria Maria de la composición dela composición de la composición de la composición dela composición d	188	219
Hogs	F. B. Barrier & Spring	No. Mr. W. Lebis H. L. L.	1.67	269
Sheep (including feeders)	8 184 MARIE 84 194 7	Secret concept of colored	51	66
Poultry	and many and another of	Oriental Albania III. Valuariga ga	19	18
Productive livestock (total) Horses	Minds & sures as well as	Brothist B. B. Harris	3602	3996
Crop, seed and feed	Committee of the grant	MARKET CHICAGO IN CASE OF A	19 1827	12
Power machinery (farm share)	Specific regions . In Specific	AND THE RESERVE AND THE PARTY OF THE PARTY O	1920	1899 1965
Crep and general machinery	Book white gover	t doors acces area	2108	2168
Livestock equipment	Bridge of the Secretary	Bush Sale Bush	867	894
Machinery and equipment (total)	State to a sale back	Fr. Machiner Constitute	4895	5027
Miscellaneous	Barifferettinen B. 186 a.	St. Charles & . La space	e, è que	
Land Puildings former ata	dender to rest de reporta	Market Service of Special	4634	4677
Buildings, fences, etc.	promise and the same of	de officials. Maybell of official	39 <b>36</b>	4015
Total farm capital	ALTERNATION OF MALES	The Market with the Market	18913	19626
man and the second an	t de Manageria de Labora d	en de compresso de la compresiona de la compresso de la compresso de la compresso de la compre	Cara a a mananananan mananan manan	Market and reference and and analysis
Itous	27 nost p	rofitable	27 least p	<u>ofitablo</u>
<u>Itons</u>	OCHI, I		50H• . T	nec, 31
Size of farm (acres)	268		285	
Size of business (work units)	412		296	
			270	
Doing and dual numbers acre	\$ 26ne	8 <b>20</b> 10		Ö 00/4
Dairy and dual purpose cows Other dairy & dual purpose cattle	\$ 2675	\$ 2840	ŷ 20 <b>62</b>	\$ 2268
Other dairy & dual purpose cattle	1107	1300	୍ନ 20 <b>62</b> ୫୫୫	਼ 890
Other dairy & dual purpose cattle Beef cattle (incl. feeders) Hogs		1300 277	୍ତି 20 <b>62</b> ୫୫୫ 485	ී 390 392
Other dairy & dual purpose cattle Beef cattle (incl. feeders) Hegs Sheep (including feeders)	1107 88	1300	୍ନ 20 <b>62</b> ୫୫୫	890 392 145
Other dairy & dual purpose cattle Beef cattle (incl. feeders) Hogs Sheep (including feeders) Poultry	1107 88 252 45 17	1300 277 39 <b>3</b>	୍ୱ 20 <b>62</b> ୫୫୫ 485 4୫	ී 390 392
Other dairy & dual purpose cattle Beef cattle (incl. feeders) Hogs Sheep (including feeders) Poultry Productive livesteek (total)	1107 88 252 45 17 4184	1300 277 393 107 18 4934	© 2062 888 485 48 51 28 3562	890 392 145 35 17 3746
Other dairy & dual purpose cattle Beef cattle (incl. feeders) Hegs Sheep (including feeders) Poultry Productive livestech (total) Horses	1107 88 252 45 17 4184 20	1300 277 393 107 18 4934 10	9 2062 888 485 48 51 28 3562	390 392 145 35 17 3746 9
Other dairy & dual purpose cattle Beef cattle (incl. feeders) Hegs Sheep (including feeders) Poultry Productive livesteel (total) Horses Crop, seed, and feed	1107 88 252 45 17 4184 20 2429	1300 277 393 107 18 4934 10 2867	2062 888 485 48 51 28 3562 9	390 392 145 35 17 3746 9 1597
Other dairy & dual purpose cattle Beef cattle (incl. feeders) Hegs Sheep (including feeders) Poultry Productive livesteel (total) Horses Crop, seed, and feed Power machinery (farm share)	1107 88 252 45 17 4184 20 2429 2231	1300 277 393 107 18 4934 10 2867 2394	2062 888 485 48 51 28 3562 9 1780 1938	390 392 145 35 17 3746 9 1597 1900
Other dairy & dual purpose cattle Beef cattle (incl. feeders) Hegs Sheep (including feeders) Poultry Productive livesteel (total) Horses Crop, seed, and feed	1107 88 252 45 17 4184 20 2429 2231 2619	1300 277 393 107 18 4934 10 2867 2394 2860	© 2062 888 485 48 51 28 3562 9 1780 1938 2145	390 392 145 35 17 3746 9 1597 1900 2110
Other dairy & dual purpose cattle Beef cattle (incl. feeders) Hogs Sheep (including feeders) Poultry Productive livesteek (total) Horses Crop, seed, and feed Power machinery (farm share) Crop and general machinery Livesteek equipment Machinery & equipment (total)	1107 88 252 45 17 4184 20 2429 2231	1300 277 393 107 18 4934 10 2867 2394	2062 888 485 48 51 28 3562 9 1780 1938	390 392 145 35 17 3746 9 1597 1900 2110 895
Other dairy & dual purpose cattle Beef cattle (incl. feeders) Hogs Sheep (including feeders) Poultry Productive livesteel (total) Horses Crop, seed, and feed Power machinery (farm share) Crop and general machinery Livesteel equipment Machinery & equipment (total) Miscellaneous	1107 88 252 45 17 4184 20 2429 2231 2619 995 5845	1300 277 393 107 18 4934 10 2867 2394 2860 928 6182	2062 888 485 48 51 28 3562 9 1780 1938 2145 924 5007	390 392 145 35 17 3746 9 1597 1900 2110 895 4904
Other dairy & dual purpose cattle Beef cattle (incl. feeders) Hegs Sheep (including feeders) Poultry Productive livesteel (total) Horses Crop, seed, and feed Power machinery (farm share) Crop and general machinery Livesteel equipment Machinery & equipment (total) Miscellaneous Land	1107 88 252 45 17 4184 20 2429 2231 2619 995 5845	1300 277 393 107 18 4934 10 2867 2394 2860 928 6162	2062 888 485 48 51 28 3562 9 1780 1938 2145 924 5007 	390 392 145 35 17 3746 9 1597 1900 2110 895 4904
Other dairy & dual purpose cattle Beef cattle (incl. feeders) Hogs Sheep (including feeders) Poultry Productive livesteel (total) Horses Crop, seed, and feed Power machinery (farm share) Crop and general machinery Livesteel equipment Machinery & equipment (total) Miscellaneous	1107 88 252 45 17 4184 20 2429 2231 2619 995 5845	1300 277 393 107 18 4934 10 2867 2394 2860 928 6182	2062 888 485 48 51 28 3562 9 1780 1938 2145 924 5007	390 392 145 35 17 3746 9 1597 1900 2110 895 4904

TABLE II SUMMARY OF FARM EARNINGS (CASH STATEMENT), 1957

INDES II DOITHER OF THEFT			AND THE RESERVE OF STREET	07 3
		Avcrage	27 most	27 least
	Your	ूर 82	profitable	
Items	farm	farns	farus	farms
FARM RECEIPTS				is more
Dairy and dual-purpose cattle	BANK WANGERSON	\$ 971	\$ 11.57	\$ 774
Doiry products	Dr. official conference of	4470	5735	3552
Beof cattle (incl. fooders)	1.140AUG. 400.7804/\$00	88	39	228
Hogs	BANGER HAR HE THE TOPE TO SERVE	495	908	144
Sheep and wool (incl. feeders)	BARTON STORES	69	61	87
Horses		12	18	em mia
Poultry	Accompany on Company	10	6	18
Eggs	an announced the Artist	54	86	65
Corn	er mari des Maries MARIES	194	153	1.85
Small grain		53	21	100
Other crops		243	109	152
Mach. & eq. sold & gas tax refund		177	22 <b>3</b>	77
Income from work off the ferm	Carrier Street St. 46 D	463	821	336
Miscellancous	State (September 1985) - September 1985	114	1.39	90
(1) Total farm sales	and he we seem	7413	9476	580 <b>8</b>
(2) Increase in farm capital		713	1697	81.00 pt.00
(3) Femily living from the ferm	Marie do 198 contro order registar	355	334	350
	Brode distribution day	8481	11507	6158
(4) Total farm receipts (1)+(2)+(3)	M. Ser resembles des desp	0.402	1.1.70	,
FARM EXPENSES		0.4.0	200	2/2
Dairy & dual-purpose cattle bought	SATURE THE THREE SATUR	240	185	242
Beof cattle bought (incl.feeders)	alian arra disputation del constitución	••• ( )		~
Hogs bought	4.7. March C. C. C. Standillon	62	84	75
Sheep bought (incl. feeders)	C Alle Cape (Health of America	19	56	3
Horses bought	MINING THE PARTY NAMED AND PARTY OF STREET	2	<b>-</b>	-m
Poultry bought	generalisation of the	6	8	6
Boos	man turnmonera m. • <b>m</b> rm	1	***	2
Misc. livestock expense	S MADERIC ALL PORT AND A	159	3.56	137
Food bought	5 100 may 1 may 1 mg 2 mg 2000	876	934	776
Fortilizer	ecolo de son cabrada to	1.37	137	110
Other crop expenses	AL MAN MANUFACTURE AT STREET	307	367	249
Custon work hirod	Specification of the Control of the	403	474	394
Gas, oil & grease bought (farmshare)	# / mm . mm . mm . m	524	579	<b>5</b> 37
Rep. of mech. power (farm share)		245	265	213
Repair & upkcop of real estate		92	76	95
Repair & upkoep crop & gen.mach.		153	203	122
Repair & upkeep livestock equip.		54	80	53
Wages of hired labor		22 <b>3</b>	178	178
Electricity expense (farm share)		156	184	138
Real estate & pers. property taxes	Company of the Company	<b>25</b> 0	300	226
General farm expense		1.11	139	96
(5) Total cash operating expense	GENERAL PROPERTY.	4020	4405	3652
(6) Cap.pur.mech.power (farm share)	Complete Street, Company of the Parish	450	600	373
(7) " " crop & gen. mach.	BECKEN CHAIL SHOWN HARMAN	460	674	438
(8) " livestock equip.	group of the contract of the c	120	39	74
(9) " " bldgs. & fencing	Commerce or hope distribution	303	326	253
(10) Total farm purch. (5) to (9)		5353	6044	4790
(11) Decrease in farm capital	Charles with the same or the same of the s	222	and gate	84
(12) Interest on farm capital		959	1152	949
	burgumo./gundanden	236	365	267
(13) Unpaid family labor	-	29	7	52
(14) Board furnished hired labor	Marie Control of the	6577	7568	6142
(15) Total farm exp. (10) to (14)	-	1904	3939	15
(16) Labor earnings (4) - (15)		1704	ノフノフ	1)

TABLE III SUMMARY OF FARM EARNINGS (EMTERPRISE STATEMENT) 1957 \*

14-DDD 111 OUTFIART OF PERMITER			OE OL.ILEENIL	7 1957 ^
Items	Your	of 82	27 most profitable farms	profitable
RETURNS AND NET INCREASES  Dairy and dual-purpose cows Other dairy & dual purp. cattle Beef breeding herd Feeder cattle Hogs Sheep-farm flock Chickens All productive livestock Value of feed fed to livestock Return over feed from livestock Crop, seed and feed Income from labor off the farm Agricultural conservation payments Miscellaneous (1) Total returns & net increases	Secretaria de la composição de la compos	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$ 6243 1229 89 109 963 67 117 5837 3564 5273 2753 772 25 117 8940	\$ 3899 748 126 54 178 69 106 5180 286 <b>5</b> 2315 1889 313 40 51 4608
EXPENSES AND NET DECRE.SES  Horses Truck .uto (farm share) Tractor Elec & gas engine exp. (Farmshare) Hired power Total power Crop and general machinery Livestock equipment Buildings, fencing & tiling Misc.preductive livestock exp. Labor Real Estate taxes Personal property taxes Insurance General farm Interest on farm capital	March de con les mais   Richards de con les mais   March de con les des con   March de con	2 205 249 612 103 403 1574 526 143 248 159 489 160 90 41 70 959	- 6 232 157 729 111 474 1697 627 185 195 156 550 185 115 43 96 1152	10 207 282 639 90 395 1623 580 153 329 137 499 149 77 50 46 949
<ul><li>(2) Total expenses &amp; netdecreases</li><li>(3) Operator's earnings (1)-(2)</li></ul>	World Christian Macagania	4459 1904	500 <b>1</b> 39 <b>3</b> 9	4592 15

<sup>\*</sup> 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 operator's earnings are the same as those on page 5.

#### TARILY LEVING FROM THE FARM

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

The value of the family living as shown in Table IV amounts to 4 per cent 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 IV. RAUTLY LIVING REOR THE REEN 1967

Table IV.	FEETLELY LLV	/ING PROLUTED PAR	м, 1957	
Itoms	Your Farm	Averago 62 Farms	Your Parm	Average 62 Farms
Adult cquiv family - Others	ar versi dan dan basabada	2.9		
Whole milk Skim Lilk Grean Boof Hogs Lomb and Mutton Poultry Eggs Potatoes Vegotables and Fruit Farm Fuel Total		1203 qts. 130 qts. 60 pts. 510 lbs. 96 lbs. 1 lb. 147 lbs. 58 doz. 6 bus.		21 18 7 33 46 \$ 353

<sup>\* 62</sup> farmers reported complete records on family living from the farm.

#### HOUSEHOLD AND PERSONAL MAPINISES 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 V. These farmers spent an average of old per month for family living in addition to the food, fuel and housing furnished by the farm.

Table V. HOUSEHOLD AND PERSONAL EXPENSES FOR

THOLE FARMS FRICH KEFT COLPLETE ACCOUNTS OF THISE EXPERSES, 1957 Average 12 most 12 least of 40 Your Profit. irof**it.** Items Parm Farms Farms Farms Jumber of persons - family 4.0 3.8 3.2 Number of Adult equiv. - family 2.9 2.9 2.1 other \* Food and meals bought . 663 . 674 655. Operating and supplies 130 106 136 Furnishings and equipment 135 133 215 Clothing and clothing materials 201 199 204 Personal care, personal spending 66 64 -76 Education, recreation and development 100 72 117 Gifts and special events 85 86 62 Medical care and health insurance 252 **2**84 262 Church, welfare 76 123 27 Personal share of auto expense 116 147 112 Operator's share of upkeep on dwelling 23 17 24 Household share of electric expense 88 81 72 Total cash living empense 1928 1993 1962 M.H. & pers. share of new auto 168 223 272 Mew Dwelling 152 17 83 Taxes and other deductions 57 23 119 Life insurance 77 113 69 Other savings and investments 16 9 15 Total household & personal cash exp. 2398 2378 2520 Total family living from the farm 392 352 384 Total cash expenses & perquisites 2790 2730 2901 Receipts: Return to capital and family labor 2687 5026 270 Miscellaneous income 659 198 1190 Income from investments 107 L 234

#### HET HORTH

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 owners renting additional land is presented in Table VI. 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.

<sup>\*</sup> Hired help or others boarded.

TABLE VI NET WORTH STATEMENT FOR THOSE FARMERS WHO KEPT I COMPLETE RECORD OF ALL ASSETS AND LIABILITIES, 1957 (Operator's Share) Your farm 73 Owners \* Items Jan, 1 Dec. 31 Jan, 1 Dec. 31 Total acres in farm 258 Owned 223 Rented 35 Total farm capital \$ 18979 19747 Stocks and bonds 452 436 Life insurance 294 377 post a sola usia Accounts receivable
Outside real estate .... -209 207 GRANIC SEL RECENTION A GRANICALINE AS SELECT <u>. 50</u> Other outside investments 60 graduate to at the c Total outside investments 1005 1080 ..... . ..... Dwelling 2578 2718 Cash on hand and in bank 314 326 Other household and personal assets.... 1379 1442 Total cash, H H & personal assets 5283 5553 24267 TOTAL ASSETS 25300 Federal Land Bank Mortgage 355 331 Other mortgage on land operated 2260 2057 Crop Loans Other chattel mortgages 1152 1233 898 Notes payable **9**59 BANKS 14 . 15 . 16 . 1 Accounts payable 387 549 
 TOTAL LIABILITIES
 5053
 5129

 Farmers' net worth
 19214
 20171

 Gain in net worth
 957
 5 Part Owners and Renters Items Jan, 1 Dec. 31 Total acres in farm 229 Owned 131 Rented -98 Total farm capital 9568 \$ 9336 Stocks and bonds Life insurance Accounts receivable Outside real estate .... Other outside investments . 38 Total outside investments 38 38 Dwelling 875 875 Cash on hand and in bank 125 81 Other househ & personal assets 865 1430 Total cash, H H and personal assets 1903 2424 TOTAL ASSETS 11471 11760 Federal Land Bank Mortgage Laca Other mortgages on land operated 1435 1100 Crop loans . . . . Other chattel mortgages 493 463 Motes payable 125 73 Accounts payable 259 TOTAL LIABILITIES 1895 Farmer's net worth 9418 9865 Gain in net worth 447 28 owners rented additional land

TABLE VII. SULFERY OF FARE MARKEDS BY THURBE, 1957 (Operator's Share)

tens	Your Farm	73 Ovmers	Part Ormers & Renters
	1 (41.1.1	GWICES	0, 1,01,0015
ME. RUCCIIIIS		01.7	066
Dring and Dual Purpose Cows		947	966
Dairy roducts		14392	2731
Doef Chitle		92	
Hogs	-	596	1,12
Shoop and Wool		71	_
.oultry	-	, 5	30
Dans		717	245
Horses		11;	26
Corn		144	32
Small Grain		55	$l_{\downarrow}$
Other Grops		310	37
Mach. & Equip. sold & gas tax refund	<del></del>	165	270
Income from work off the farm		483	57
liscellancous		114	111
(1) Total farm sales	Confidence of the series and placement	71,29	4501
(2) Increase in farm capital	Service of the Service of the Service of Ser	768	
(3) Family living from the farm	a are to see . Laplace pagest	353	31;3
(h) Total farm receipts $(1) + (2) + (3)$	per melleknelligus heldel samilde a gallikilledi.	8550	4944
THE EXERCISE		0 ) <b>) (</b>	·:>44
Dairy and Dual Furpose Cows bought		217	419
Beef Cattle bought		6	
Hogs bought		6 <del>5</del>	<b>1</b> 6
Sheep bought	No. 1980 10 100 - 100 - 100 - 1	20	-
Horses bought	Street Service Street Service Service	20	31
Poultry bought		6	11
Hiscollancous livesteck expense		158	110
Food bought	dan dan dahada anta da taribi		
		81,9	963 305
Fertilizer bought		156	125
Other crop expenses		291	188
Custom work hired		403	260
Gas, oil & grease bought (farm share)	Martine To and develop and develop	522	1449
Repair of mech. power (farm share)		236	377
Repair & upkeep of real estate		91	87
Rep. & upkeep of crop & gen. mach.		1.49	203
Rep. & upkeep of livestock equip	Continued and Continued Continued	55	17
Vages of hired labor		226	127
Electricity expense (form share)	to an electric order continued places.	158	103
Real Estate & Pers. Property Tax		2 <u>l</u> i8	110
Cash Rent		66	33
General farm expense	Secretary of the second	112	78
Interest paid	State of n is not not a return of space	158	103
(5) Total cash operating expense	de la selectroligie resignio y dipola dipola del	h192	3810
(6) Capital purchase-mech. power (f.shan	207	469	50
(7) Capital purchases-crop & gan. mach.	. 0)	467	
(8) Capital purchases-livestock caup.			432
(9) Capital purchases-livestock equip. (9) Capital purchases-bldg. & foncing	to the secondary specialists	125	1.8
	payment and their life of the transferred	311	1 27 0
(10) Total farm purchases (5) to (9)		5564	l;310
(11) Decrease in farm capital		271	232
(12) Interest on farm capital	Security who are all the security and th	964	473
(13) Unpaid family labor		241	95
(14) Board furnished Hired labor		28	1,24
(15) Total farm expenses (10) to (14)		6797	5154
(16) Labor earnings (4) - (15)	And the second second second second	1753	- 210
(17) Return to capital & family labor	Percentificate vitale-adherial-distribution and	2958	35 <b>8</b>
$(16) \neq (12) \neq (13)$		•	- / -

#### 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 73 owners and 5 part owners is shown in Table VII. The statement includes only the operator's share of the earnings of the partnership. The earnings as shown in Table VII are on an actual basis as compared to the full-owner basis in Tables II and III.

#### RANGE IN EARNINGS

Every study of farm carnings shows a wide variation in earnings among farmers in a given year. The average operator's earnings of farmers ranking in the upper third of the range according to earnings was 33939 and of those in the lower third was \$15. This is a range of \$3924 between the average earnings of these two groups. Some of the causes for those differences in earnings, such as weather, may be beyond the centrel of the individual farmer. Other factors are within his centrel. The more important management factors affecting earnings are as follows: These factors vary from year to year in their relative influence on earnings. 1

1. Crop Yields 2. Choice of Grops 3. Return from Livestock 4. Amount of Livestock 5. Size of business 6. Work Units per Worker 7. Control over Expenses.

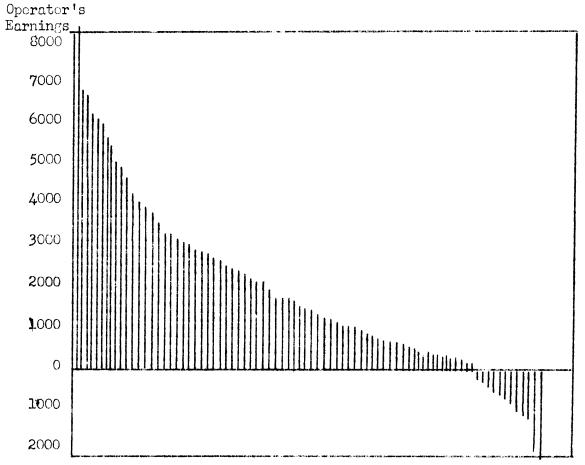


Fig. 1. Range in operator's earnings. Each line represents the earnings of one farmer.

1/ See Pend, G. A. "Why Farm Earnings Vary". Minn. Agri.Expt.Sta.Bul.386

June, 1945.

#### EXPLANATION OF "WORK UNITS"

Other hay crops

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 an 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 VIII below.

Table VIII: NUMBER OF WORK UNITS FOR EACH CLASS OF LIVESTOCK AND CROP ACRE

Item No. of Work Units Dairy and dual purpose cows 10.0 per cow Other dairy and dual purp. cattle 3.5 per animal unit\* Beef Breeding herd 3.5 per animal unit\* Feeder cattle .25 per cwt. Sheep - farm flock 1.5 per animal unit\* Sheep - feeders .3 per cwt Hogs .2 per cwt. Turkeys .5 per cwt. Hons 20.0 per 100 hens Canning peas .5 per acre Soybeans for grain .5 per acre Potatoes 4.0 per acre Small grain .5 per acre Sugar beets 1.5 per acre Sweet corn .7 per acre Corn, husked .7 per acre Corn, hogged .4 per acre Corn, shredded 1.5 per acre Corn, silago 1.0 per acre Corn, fodder 1.0 per acre Silage, other than corn 1.0 per acre Alfalfa hay .6 per acre Soybean hay .8 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 lbs. of turkeys produced.

And the second of the second o

.4 per acre

TABLE IX MEASURES OF FARM ORGANI	Z.TIO	P. M. M. Ci	AENT EF ICI 27 most	EMCY 1957
Necsures Used in Chart on Page 14	Your farm	of 82	profitable	profitable
Operator's Labor Earnings	to the other death or the or	\$ 1904	§ 393 <b>9</b>	\$ 15
(1) Crop Yields *	B. Little Brooks - Albert March	100	104	104
(2) % Till.land in High Ret.Crops **	1 20 % A /4 MAR	33.5	34.3	35.6
(3) Ret per \$100 feed to prod.livestoc		100	121	79
(4) Prod.Livestock units per100acres	accept one as into devel	19.4	21,2	14.2
(5) Size of business - work units		329	412	297
(6) Work units per worker	Books, b Books - Broke	226	261	192
(7) Power, mach., equip, & bldg. expense per work unit			<i>3</i> 6.65	\$10.60
Items related to some of the above me		- ABOVE T TO BOOM MANAGE	ille of the Administration (i.e. the terminal and administration)	S 6 74 %-16 B 67 C displays to compare the compare of the compare
(3) Index of return for \$100 feed from Dairy cattle (see pp 19-20)  Deef cattle breeding hord (p21)		100 100	118 133	81 67
Hogs (see page 18)	iğin sahifi sahifin sahis sahis sahis sah	100	103	85
Sheep -farm flock (see pg 21)	6. Jan 18. vellante Gand	100	70	75
Chickens (see page 23)	purpose of the	100	120	80
(4) Number of animal units	gangana in dangan	32.0	37.7	27.7
(5) Work units on crops Work units on prod. livestock Other work units		68 21 <i>5</i> 46	75 259 78	67 187 42
(6) Number of family workers Number of hired workers Total number of workers	Shared and an allow Spanished  Elication Shared and Shared and  Shared and Shared and Shared and Shared and Shared and Shared and Shared and Shared and Shared Annual Shar	1.4 .1 1.5	.1	1.5 .1 1.6
the second secon	88 75 (00-000) 1 100 (001 00 (04 156 (04 6 5 5 4 156 5 (1) (04 60 1 0 6 5 5 4 156 6	.42	1.50 .40	
* Given as a percentage of the avenue of the	(A), (B), (B) crop ng por co	, (C) anos, and o	d (D). All ne-fourth o llable land	f acres in

Ares in timber not pastured, roads, waste and farmstead not included.

#### THERMOMETER CHART

Using your figures from page 13, locate your standing with respect to the various measures of farm organization and management efficiency. The averages for the 82 farms included in this summary are located between the dotted lines across the center of the page.

	Labor carn-	ı	U <b>r</b> op		High			) <b>-</b>	r.L.S unita por	3	Vork	ı	lork inits per	&	ME BEx per
gament to a disease	ings		y <u>i</u> olds			live					units		per orker		W.U.
\$ <b>58</b> 00		180		<b>5</b> 0		180		35		570		345		4.50	
5300	Successive Sections	170		48		170		33		540		330		5.00	
4800		160		46	Tauran raman	160		31		510		315		5.50	
<b>4</b> 300	a. discassing on	150	Black Fig. 1922 - con	1,14	des rests years dem	150	Radio apares	29		480		300		5,00	
3800	-	140		42		140		27		450	**************************************	285		5.50	
3300		130		40		130		25		420	Post opini	270	7	7.00	
2800		120		38		120		23		390	· · · · · · · · · · · · · · · · · · ·	255	7	<b>7.</b> 50	
2300	Sign makes become for many	110		36		110		21		360	Special State of Stat	240	[8	3.00	P
1800		100	in property of the property of	34		100		19		330		225	8	5.50	
1300		90	juan a san-	32		90		17		300		210	Ç	0.00	
800		80		30		80	BLANK PROSE	15		270		195	9	. 50	
300	;	70		28		70		13		240		180	1	0.00	
- 200		60		26		60	BASK - BASE	11	-	210		165	1	0.50	
- 700		50		24		50		9		180		150		1.00	
-1200		40		22		40	hand that the sale of the sale	7		<b>15</b> 0		135	1	1.50	
,		1		,		· · · · · · · · · · · · · · · · · · ·		\ .		. /					

TABLE X. DISTRIBUTION OF ACRES IN FARM, 1957

TABLE X. DISTRIBUTIO ! O		Tour	137 Marco - 01
	Crop Ratings*		Average of 32 Farms
The region of the control of the con	1640TH25A	: CLL III	O2. 2 (31110)
Flax	B		1.1
Darley	C		•6
Onts and out mixtures	C	************	19.5
Oat silage	C	## #### ##############################	1.1
Lheat	C		• 3
⊋yo.	Ð	despuise ou monte o reign or in-	• 7
Joybeans	C	transferred out different to the section of	• 14
Total small grain		gar, contracting the contract	23.7
Garden - Seed Potatoes	A		.1
Potatoes	D		1.14
Corn Dilage and Sorghum Silage	C		7•7
Corn Grain	)		15.5
Corn Fodder	T)		<u>•5</u>
Total cultivated crops			25.2
Alfalfa and mixtures	A		27.2
Other legumes and mintures	1)		8.4
Grass Silage	С		3•3
Legumes for seed	7)		2.2
Timothy and/or brone	Ð		<b>3.</b> 6
Other annual hay	D		17.9
Wild hay on tillable land	פ		1.4
Total tillable land in hay			614.0
Alfalfa & alfalfa mixture pasture	A		• 14
Other legume & mixture pasture	C	are remarkable of the same	•6
Other tillable pasture	D	Married representation and the second	8.9
Total tillable pasture		us namen and the continue of t	9•9
Tillable land not cropped	D		3.1
Soil bank	$\Lambda$		1.4
Total tillable land		-	127.3
Wild hay - non-tillable			3•9
Mon-tillable pasture			60.3
Timber (not pastured)			53•3
Roads and waste			12.5
Farmstead		desired the same of the same o	3.7
Total acres in farm		The state of the s	201.0
Per cent of land tillable			47.6
Per cent of land in high return crops			33.6
	ga e i Talannoa ye 1888 i i 1888 a Talanda e 1888 a Talanda e 1888 a Talanda e 1888 a Talanda e 1888 a Talanda		apraise in the tricks application or the trick in the second extension of the control of the con

<sup>\*</sup> The crops are classified as A, B, C, or D crops on the basis of their average not returns per acre.

TIBLE XI. CLOP YIELDS FER LOW, 1957

parties controlled to the controlled controlled and controlled and controlled and controlled the controlled to the contr	ti inga sana nagaga da mila kaban mendikahan halamban ma	Average of
	Yeur	farms growing
Crop	farm	uach crop
Flort, bu.		2
Borloy, bu.		30•3
Theat, bu.		30 <b>.</b> l.
Oats, bu.	n	36 <b>.</b> li
Ryc, bu.	regular river consequent reflected	21.1
Oat ilage, ton	district on with respect of the state of	<b>5.</b> 8
hothtoes, bu.		110.9
Corn Gilage and sorghum silage, ton	Principles - Principles - Charles -	6.6
Gorn Fodder, ton	dendrous engendes y dans	2.0
Corn Grain, bu.		35•3
Legunes for seed, 1bs.		68.7
Soybeans, bu.	go arts order-consumal explained	10.7
Alfalfa nay, ton	t order to a report described	1.7
Other legumes & mistures, ton		18
Timothy or brome, ton		1.8
Other annual hay, ton	A Topic artists and discounting regulated	1,5
Wild hay	more and a graph of graph at	1.1
Grass silage, ton		5•7

#### POTER AND MACHILLERY EXPENSAGE

Power and machinery expense per crop acre is an indication of the economy with which capital is invested in these items. Expenses are high on the farms with a small acreage. In some cases, low expense for labor night be offset by higher equipment costs. The farmer is interested in operating at the lowest cost for power, machinery, and labor combined.

TIBLE MII. POVIR AND MICHEMERY EMPENSES PER CROP ACRE, 1957

			<u> </u>	
A reference of the control of the co	Your	hvg• of	27 most	27 least
	farm	82 farms	prof. farms	prof. farms
Crop acres per farm		125	144	128
Tractor and horse exp. per crop acre		<b>5</b> ,22	Ş5 <b>∙2</b> 5	5.47
Crop & Gen. Mach. exp. per crop acre		4.90	4.81	5.14

#### AMOUNT OF LIVESTOCK

A large proportion of the farners maintained some dairy cattle with smaller numbers maintaining hegs and boultry.

TABLE XIII. AMOUNT OF LIVESTOCK, 1957

	Your	vु• of	27 most	,
	${ t farm}$	82 farms	prof. farms	prof. fams
Number of milk cows		16.7	20.1	14.4
Number of other dairy cattle	percentir more resp. a flut addition	17.8	19.1	15.8
Humber of beef cattle		2.3	2.0	4.9
Humber of sheep		5.0	4.9	5 <b>•3</b>
Humber of hens	tion documents construint age deputed	22.7	23.6	22.8
Litters of pigs raised	universities of Controlling and Controlling	3 <b>.</b> 5	7.0	1.6
Pounds of hogs produced	topic remit. Uponting	2927	5368	537

#### TOTAL FREED COSTS AND RETURNS FROM YOUR LIVELTOCK ENTERPRISES

The total "return over feed costs" for each class of livesteck is shown in Table HIV. This differs from the "return over feed" shown in the enterprise statement in that it is the total for each class of livesteck instead of a return "per head", "per unit", or "per 100 lbs.". These data indicate the relative importance of different classes of livesteck as a source of income and as a market for feed. The total return is the same as the returns and act increases shown on p. 6. 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.

T.BLE KIV. TOTAL FIED COSTS AND RETURNS FROM YOUR LIVELTOCK DEFENDES

	Dairy or dual	l p <b>ur</b> pose catt	<u>lo</u>
	Covra	Other	Mil
Total returns		of the distribution of the state of the stat	<ul> <li>Wellstein vider eller e</li></ul>
Total feed cost	March's ribers des expensionality elipsys	depublikasioner Britis digi mililiya mililiya mililiya di	geraphonolike nintroversion orbanolies - edingali
Total return over feed	nom the there are appropriately a decide	eller films signer diegen vor von z oppositionen	Min million file roll for milled min in name assign again
	Hogs	Shoep	Chickens
Total returns		- Tiet in Administration description (e.g., unpresent two majorques, un annual description (description) agreement	nerfleserffen hingste niger agenste in der erforeste der er gestigendfindligene.
Total feed cost		transferritoria como como como que appara	Tiden on free agreement
Total return over feed		47 American internal augmentures	Elizabilitat Brandjin seder erbase der verlighent

Feed is the largest single item of cost for all classes of livestock. However, the proportion of the total cost represented by feed varies between classes of livestock. Feed makes up approximately 45 per cent of the total costs of maintaining dairy cattle and poultry, 50 per cent for sheep, and 75 to 90 per cent 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 cut. of hogs produced varied from almost breaking even for those farmers in the lower one-third in feeding efficiency to a return of 15.86 for those in the highest one-third. Responsible factors affecting return over feed were:

- 1. Quantity of food required to produce 100 pounds of pork.
- 2. Price received.
- 3. Number of pigs born per litter.
- 4. Humber of pigs weamed per litter.

TUBLE KV. FUED COSTS AND RETURNS FROM HOGS, 1957

Itens	Your farm	Avg. of 26 farms		lowest in
For d per ewt. hogs produced, lbs.  Corn  Small grains  Coumercial foods  Total concentrates & Alfalfa  Okim milk and buttermilk  Silage  Food cost per ewt. hogs produced  Concentrates (incl. Alf.)  Skim milk and buttermilk  Tasture  Silage  TOTAL FEED COSTS  Wet increase in val. per cut. hog  produced	77 60 60 60 60 70 70 70 70 70 70 70 70 70 70 70 70 70	271 222 48 541 353 6 011.34 1.84 27 17 13.62 21.50	162 336 75 573 130 18 012.66 .50 .49 .50 14.29 030.15	395 171 30 596 509 - \$12.36 4.30 .22 - 16.89 \$16.05
RETURES LEOVE FUED COST OUR COT. LOGS PRODUCTED	Ö	7 <b>.8</b> 8	15.86	34
RETURNS FOR GLOO OF FEED	<u> </u>	_ 0184	<b>့22</b> 4	<b>511</b> 8
Frice received per ewt. hogs sold	1 🕽	22.92	26.7h	21.26
Ho. of spring litters raised Ho. of fall litters raised Total no. of litters raised		7.l. 3.8 11.2	9.8 5.0 14.8	5•2 2•2 7•4
Ho. of pigs born per litter Ho. of pigs weened per litter		9 <b>.9</b> 7 <b>.</b> 3	10.5 7.7	8.5 7.0
Tounds of hogs produced	Millord - Miller dispense reduces	6530	631.14	3664

DAIRY AND DUAL PURPOLE CATTLE

The quantity of feed consumed, value in feeds and returns from dairy cattle are presented in Tables MVI, AVII, and XVIII. The statements include several hords which were classified as dual purpose cattle. The return over feed cost per cov varied from 311 to 3312 among the 71 herds covered by this study. Some of the important factors that affected the return over feed were:

<sup>1.</sup> Rate of production (sounds butterfat per cou)

<sup>2.</sup> Frice received for butterfat

<sup>3.</sup> Feeding efficiency h. Economy of ration (Feed cost per pound butterfat)

THILE XVI. FACTORS OF COSTS AND RETURNS FROM DAIRY COMS. 1957

THILE XVI. FLOTORS OF COSTS AND RETURNS FROM DAIRY COMS, 1957				
Items	Your farm	Average of 71 farms	butterfat	
Founds of butterfat per con Fried rec. per Lb. B.F. sold (cents)	dy calle of the called of th	283 91	35' <b>3</b> 96	215 63
Food per com, lbs.: Sorn Shall grain Connected foods		535 806 696	647 821 1212	211 706 376
Legune hay Other hay Fodder and Stover		3165 2996 57	3291 3 <b>271.</b> -	3130 271 <sub>1</sub> 8 125
Total concentrates, lbs. Total dry roughage, lbs. Silage		2037 6218 5636	2880 6562 5579	1373 6003 6057
Food cost per cow: Concentrates Roughages Pasture TOTAL FIED COST		, 48.40 5 <b>8.</b> 08 7.26	\$ 72 <b>.12</b> 63.97 7.36	31.09 56.35 6.83 94.27
Value of produce per cow: Butterfat sales Dairy produce used in house Hilk to livestock Het increases in value of cows TOTAL VALUE PRODUCED		\$21,2.85 8.58 13.21, 6.38 \$271.05	\$325.53 7.33 9.38 2.73 \$345.47	\$163.71 9.92 14.00 12.78 \$200.41
RETURNS ABOVE FUND COST PER COM	magnifican and process of the market was	0157.31	5202.02	\$106.1 <i>h</i>
RETURNS PER 5100 SPEAK FOR FUED	de selleta calen e de recusionaliste di	©2 <b>€</b> 3	©270	<b>\$239</b>
Food cost per 1b. B.F. (cents) Number of cows*		40 17•9	l <sub>1</sub> 2 20 <b>.</b> 9	144 16•0

<sup>\*</sup> All dairy cows which have at some time in the past freshened are included in the dairy herd, and affect the average number of cous used in computing this table. There is some variation in the number of months of dry period per cou; however, this variation is small for the majority of farms.

THREE EVEL. FOID COSTS AND RETURNS	FROIT OTH	DR D.IRY	AMD DUAL PURA	POSE CATTLE, 1957
Itons	Your farm	of 71	24 forms highest in butterfat per cov	lowest in butterfat
Foods per head, 1bs.: Concentrates Hay and fodder Gilage Hilk		260 2282 1642 545	337 2133 1147 586	145 2329 2023 686
Fued cost per head: Concentrates Roughages Fill: Pasture TOTIL FIND COST FOR HELP		07.30 19.66 10.31 2.92		2.96 20.82 8.85 2.39 .35.02
Met increase in value of other cattle	, , , , , , , , , , , , , , , , , , ,	55•75	∂63 <b>.</b> 96	\$46.83
RETURNS ABOVE FIND COST FOR HUND	Profes differences about	15.48	19.29	11.81
RETURNS FOR (100 OF FEED		\$15h	165	1.52
Humber of head of other cattle		18.5	19.6	18.7
TABLE EVIII. FEID COSTS AND RETURNS Feeds per animal unit, lbs.	FRON AL	eranganak peripik etti panas dagan dagi penganak		THE STATE OF THE S
Concentrates Hay and fodder Silnge		1531 5516 4873	2173 5743 4627	1026 5328 5626
TOTAL FEED COSTS PER AMERIL UNIT	De reger replacie des regions des est	5 95.76	(118,84	⊕ 82 <b>.</b> 16
Value of produce per animal unit: Dairy products Het increase in value TOTAL VALUE PRODUCED		170.21 lu.30	_228.06 ԱԱ.1 <u>և</u> <u>32<b>72.</b>20</u>	0119•49 40•42 0159•91
RETURNS ABOVE FEED FOR AMERICA UNET	menter Assessment deals	<b>0115.7</b> 5	Q153 <b>.</b> 36	77.75
RETURNS FOR \$100 OF FUED	den meller - minere geren selve a silpropi	234	254	218
Animal units of cattle	*****	27.4	30.9	25,5

TABLE XIX. FEED COST AND RETURNS FROM BEEF BREEDING HERD, 1957 Avorage of Your Itoms farm 4 farms Boof brooding hord: No. of farms L Foods por animal unit, lbs.: Concentrates 205 Logumo 7170 Other hay 3247 Silage 7515 Whole Milk 38 Feed cost per animal unit: Concentrates 3 2.69 Roughages 94.46 Insture 12.82 Hilk 1**.3**3 TOTAL FEED COSTS **\$111.**30 Value of produce per animal unit: Dairy products Net increase in value of animals 121.94 TOTAL VALUE PRODUCED \$121.94 RETURNS ABOVE FEED COST PER AMENAL UNITS \$ 10.64 RETURNS FOR \$100 OF FEED 3116.00 Number of enimal units in the herd 14.8 TABLE XX. FEED COST AND RETURNS FROM SHEEP, 1957 Your Average of Items farm6 farms Foods per head, \* lbs.: Concentrates 52 Logumo hay 1906 Other hay 81 Silage 503 Feed cost per head: Concentrates 0 1.53 Roughages 4.70 Pasturo 4.18 TOTAL FEED COSTS 3 10.41 Value of produce per head: Tool 3.614 Net increase in value of shoop 13.17 TOTAL VALUE PRODUCED \$ 16.81 RETURNS ABOVE FEED COST PER HEAD \$ 6.40 RETURNS FOR \$100 OF FEED \$181.00 Number of head of sheep\* 45.8

<sup>\*</sup> Two lambs under six months of age considered as one head.

#### CHICKENS

Eighteen farmers raising chickens submitted reports with enough detail for analysis. Information on chicks raised, death loss, and pounds produced was too incomplete to be included in the averages. Table XXI shows the averages for the eighteen farmers.

Some of the important factors that affect the return over feed are:

- 1. Quantity of feed required per hen.
- 2. Price received per dozen eggs sold.

3. Eggs laid per hen.

- b. Per cent of hens that are pullets.
- 5. Percentage death loss of heme.

TABLE XXI. FRED COSTS AND RETURNS FROM CHICKENS, 1957 \*

Items	Your form	lverage of 1.8	6 farms	6 farms lowest in return over feed
Food per hen, lbs. Grain Commercial foods Total concentrates Milk		65 62 127 12	70 <u>52</u> 122 4	74 69 143 32
TOTAL FEED COST PER HEH		○ 3•75	\$ 3 <b>.</b> 50	\$ <b>4.0</b> 8
Value of produce per hen: Eggs sold and used in house Net increase in value of chickens TOTIL VILUE PRODUCED		\$ 3.00 4.66 \$ 7.66	\$ 2.69 6.13 \$ 8.82	© 2•39 2•95 © 5•34
RETURNS ABOVE FEED COST FER HEN		0 3.9l	5.32	1.26
RETURNS FOR \$100 OF FEED	-	\$215	<b>(</b> )285	\$125
Price recidper doz. eggs sold (cents) Eggs laid per hen	)	○ •32 112	0 •31 125	≎ •34 103
Average number of hens during year	*	71	77	145

<sup>\*</sup> Includes feeds and returns from laying flock and rearing flock.

Thirteen farms that submitted farm record books for analysis of 1956 operations are also included in the 1957 study. Two of these books were partially incomplete and not considered as entirely valid for purposes of comparison. A comparison of labor earnings of the eleven farms submitting complete records in both years is shown below:

TABLE XXII COMPARISON OF LABOR EARNINGS, 1956-1957

Escuellin des propriétion d'innes : l'aussiès : il résourcité d'imprés et pre	n. V. re. – Kr. Algust Syaret negativ, Buller Weigsverdage Karenderst, kygydvegevente et trapologie	HANDARDARDALINUH (III) ARE ARESTORIA (III) — BYT OF HARFS HANDARDARD (III) AREAN NUME (III) — BULLELUKUU.	en inches acherone del composition
FARM :	1956 LABOR EARNINGS	1957 LABOR EARNINGS	INCREASE
1	\$ 1023	\$ <b>27</b> 60	\$ 1.737
2	1.584	5040	3456
3	1851	4799	2948
4	1014	1965	971.
5	3630	<b>26</b> 66	(-942)
6	(-169)	<b>15</b> 98	1767
7	1231	2513	1262
Ê	737	2571	1834
9	96 <b>7</b>	3350	2363
10	3576	6705	3129
11	50	1003	953
TOTAL (11 FARMS)	\$1 <b>5</b> 49 <b>4</b>	\$350 <u>1</u> .2	\$ <b>1</b> 9518
AVERAGE (11 FARM	S) \$ 1408	\$ 316 <b>3</b>	\$ 1775