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Prepared by T. R. Nodland and Janet B. Otis*

## INDEX

## Page

Introduction ..... 1
Summary of Farm Inventories ..... 3
Summary of Farm Earnings (Cash Statement) ..... 4
Summary of Farm Earnings (Enterprise Statement) ..... 5
Net Worth Statement ..... 6
Summary of Farm Earnings by Tenure ..... 7
Household and Personal Expenses ..... 8
Family Living from the Farm ..... 9
Cumulative Effect of Excelling in a Number of Management Factors ..... 9
Measures of Farm Organization and Management Efficiency ..... 10
Thermometer Chart ..... 11
Distribution of Acres in Farm ..... 12
Crop Yields per Acre ..... 13
Average Price of Feeds ..... 13
Return Above Listed Costs per Acre of Crops ..... 14
Explanation of "Work Units" and "Animal Units" ..... 15
Feed Costs and Returns from Dairy Cattle ..... 16
Feed Costs and Returns from Hogs ..... 18
Feed Costs and Returns from Beef Breeding Herd ..... 19
Feed Costs and Returns from Feeder Cattle ..... 20
Feed Costs and Returns from a Farm Flock of Sheep ..... 21
Feed Costs and Returns from Chickens ..... 22
Summary by Years, 1940-1968 ..... 23

## INTRODUCTION

The Department of Agricultural Economics and the Agricultural Extension Service of the University of Minnesota, the Agricultural Research Service of the United States Department of Agriculture, and the county extension services of several southwestern Minnesota counties are cooperating with the Southwestern Minnesota Farm Management Association in maintaining a farm management service. The Association was organized in the fall of 1939 by farmers in that part of the state for the purpose of studying the farm business through farm records. Each farmer pays an annual fee which covers a part of the cost. The balance of the cost is defrayed by the University of Minnesota and the United States Department of Agriculture.

The analysis of the records and the preparation of the report are handled by the Department of Agricultural Economics under the direction of T. R. Nodland. Extension work in connection with the supervision of this project is handled by Duane Wilson. Michael Lynch was the field agent for this project until July 1 . He was followed by Erlin Weness. At the end of the year, Carl Pherson of the

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Department of Agricultural Economics and Paul Hasbargen and L. W. Fitzgerald, Extension Specialists in Farm Management, aided in closing the records.

The following tabulation shows by counties the number of records submitted, the officers of the Association, and the county agricultural extension agents who cooperated in 1968.

| County | No. of records | Association Officers | County Agricultural $\qquad$ |
| :---: | :---: | :---: | :---: |
| Cottonwood | 18 | John Regier, Vice-President William Janzen, Director | Paul Sandager |
| Faribault | 17 | Leon Chirpich, Director Roger Holland, Director | Gene Williams |
| Jackson | 17 | Curtis Pietz, President Vernon Voss, Director | Ray Palmby |
| Martin | 6 | Willard Peters, Director | Floyd Bellin, Jr. |
| Murray | 20 | Malcolm McLean, Director Loren Richardson, Director | Reuben Boxrud |
| Nobles | 29 | Burton Larson, Director <br> Milton Fellows, Secretary-Treasurer <br> Donald Gingerich, Director <br> Henry J. Peterson, Director | Robet Koehler |
| Pipestone | 11 | Fred Schuld, Director | Kenneth Rose |
| Redwood | 25 | Harold Deal, Director Francis Boerboom, Director | Ernest Johnson |
| Rock | 1 |  | Kent Ringkob |
| Watonwan | 11 | Eldon Torkelson, Director | John Ankeny |
| Total | 155 |  |  |

The data for 136 farms are shown in the tables on succeeding pages. Nineteen farms were omitted from all of the averages in the tables because the records were not sufficiently complete for a full analysis or the records were not returned for analysis following completion of income tax schedules.

Because the farmers included in this study are, in general, above the average in managerial ability and operate larger and more productive farms, they have returns materially higher than the average for this section of the state. There was, nevertheless, wide variations in the methods and practices followed by these men. It is reasonable to assume that similar variation occurs among all farmers in the area. To the extent that this is true, this report would be of value to all farmers and to others interested in agriculture in that it illustrates how farm records may be used as a basis for making an analysis of a farm business and for improving the management of a farm.

Table 1. Summary of Farm Inventories, 1968*

| Item |  |  | Average of 136 farms |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Jan. 1 | Dec. 31 |
| Size of farm (acres) |  |  | 427 |  |
| Size of business (work units)** |  |  | 452 |  |
| Dairy cows |  |  | \$ 1574 | \$ 1685 |
| Other dairy cattle |  |  | 942 | 949 |
| Beef cattle (incl. feeders) |  |  | 14940 | 15580 |
| Hogs |  |  | 3778 | 4074 |
| Sheep (incl. feeders) |  |  | 187 | 155 |
| Poultry (incl. turkeys) |  |  | 155 | 123 |
| Productive livestock total |  |  | \$21576 | \$22566 |
| Horses |  |  | 12 | 8 |
| Crop, seed and feed |  |  | 16849 | 19670 |
| Autos and trucks (farm share) |  |  | 1939 | 2132 |
| Tractors and crop machinery |  |  | 13280 | 14536 |
| Livestock equipment |  |  | 2245 | 2225 |
| Machinery and equipment total |  |  | \$17464 | \$18893 |
| Land |  |  | 74482 | 74482 |
| Buildings, fences, etc. |  |  | 19280 | 19640 |
| Total farm capital managed |  |  | \$149663 | \$155259 |
|  | 27 most | ofitable | 27 least | ofitable |
| Item | Jan. 1 | Dec. 31 | Jan. 1 | Dec. 31 |
| Size of farm (acres) | 613 |  | 382 |  |
| Size of business (work units)** | 606 |  | 383 |  |
| Dairy cows | \$ 1720 | \$ 1851 | \$ 1212 | \$ 1304 |
| Other dairy cattle | 890 | 970 | 921 | 608 |
| Beef cattle (incl. feeders) | 25822 | 28217 | 10325 | 11300 |
| Hogs | 4205 | 4703 | 4461 | 4311 |
| Sheep (incl. feeders) | 36 | 20 | 26 | 74 |
| Poultry (incl. turkeys) | 120 | 149 | 144 | 146 |
| Productive livestock total | \$32793 | \$35910 | \$17089 | \$17743 |
| Horses | 18 | 9 | 8 | 8 |
| Crop, seed and feed | 26655 | 33258 | 14442 | 13972 |
| Autos and trucks (farm share) | 2018 | 2371 | 1850 | 2101 |
| Tractors and crop machinery | 16689 | 17833 | 11871 | 12538 |
| Livestock equipment | 2545 | 2482 | 1904 | -1687 |
| Machinery and equipment total | \$21252 | \$22686 | \$15625 | \$16326 |
| Land | 106099 | 106099 | 65132 | 65132 |
| Buildings, fences, etc. | 24183 | 24638 | 16835 | 17127 |
| Total farm capital managed | \$211000 | \$222600 | \$129131 | \$130308 |

* For the purpose of comparison, all the data shown in this report, with the exception of tables 4 and 5, 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 15 for an explanation of "work units."

Table 2. Summary of Farm Earnings (Cash Statement), 1968

| Item | Average of 136 farms | $\begin{gathered} 27 \text { most } \\ \text { profitable } \\ \text { farms } \\ \hline \end{gathered}$ | 27 least profitable farms |
| :---: | :---: | :---: | :---: |
| FARM RECEIPTS |  |  |  |
| Dairy cattle sold | \$ 853 | \$ 783 | \$ 713 |
| Dairy products sold | 3849 | 5293 | 2907 |
| Beef cattle (incl. feeders) sold | 28325 | 57256 | 17227 |
| Hogs sold | 11548 | 13887 | 12267 |
| Sheep and wool (incl. feeders) sold | 197 | 40 | 37 |
| Horses sold | 2 | 12 | - |
| Poultry (incl. turkeys) sold | 385 | 20 | 143 |
| Eggs sold | 647 | 422 | 644 |
| Corn sold | 6138 | 7487 | 6448 |
| Soybeans sold | 4894 | 6962 | 4466 |
| Small grain sold | 627 | 924 | 1107 |
| Other crops sold | 2961 | 4267 | 2065 |
| Machinery and equipment sold | 504 | 652 | 445 |
| Income from work off the farm | 723 | 697 | 543 |
| Miscellaneous farm income | 1015 | 1462 | 682 |
| Total farm sales | \$62668 | \$100164 | \$49694 |
| Increase in farm capital | 5596 | 11600 | 1177 |
| Family living from the farm | 292 | 356 | 229 |
| Total farm receipts | \$68556 | \$112120 | \$51100 |
| FARM EXPENSES |  |  |  |
| Dairy cattle bought | 91 | 61 | 39 |
| Beef cattle bought (incl. feeders) | 15453 | 33426 | 10630 |
| Hogs bought | 1040 | 840 | 1719 |
| Sheep bought (incl. feeders) | 65 | - | 50 |
| Horses bought | 1 | 6 | - |
| Poultry bought (incl. turkeys) | 151 | 44 | 289 |
| Miscellaneous livestock expense | 861 | 1208 | 556 |
| Feed bought | 8449 | 11202 | 8281 |
| Fertilizers bought | 2545 | 3208 | 2456 |
| Other crop expenses | 3108 | 4295 | 2869 |
| Custom work hired | 1198 | 1423 | 1065 |
| Gas, oil, and grease (farm share) | 1488 | 1786 | 1321 |
| Repair truck and auto (farm share) | 463 | 550 | 399 |
| Repair and upkeep of farm real estate | 420 | 458 | 404 |
| Repair \& upkeep of tractors \& crop machinery | 1332 | 1676 | 1227 |
| Repair \& upkeep of livestock equipment | 263 | 374 | 209 |
| Wages of hired labor | 1549 | 2919 | 1098 |
| Electricity expense (farm share) | 360 | 408 | 341 |
| Personal property and real estate taxes | 1735 | 2410 | 1533 |
| Telephone and general farm expense | 617 | 747 | 560 |
| Total cash operating expense | \$41189 | \$67041 | \$35046 |
| Trucks and autos bought (farm share) | 691 | 836 | 688 |
| Crop and power machinery bought | 3921 | 4138 | 2953 |
| Livestock equipment bought | 477 | 488 | 328 |
| New real estate and improvements | 1964 | 2430 | 1765 |
| Total farm purchases | \$48242 | \$74933 | \$40780 |
| Decrease in farm capital | - - | - - | - |
| Interest on farm capital @ 5.5 percent | 8385 | 11924 | 7135 |
| Unpaid family labor | 667 | 1292 | 619 |
| Board furnished hired labor | 88 | 189 | 52 |
| Total farm expenses | \$57382 | \$88338 | \$48586 |
| Labor earnings | \$11174 | \$23782 | \$ 2514 |

Table 3. Summary of Farm Earnings (Enterprise Statement), 1968*

| Item | Average <br> of 136 <br> farms | $\begin{gathered} 27 \text { most } \\ \text { profitable } \\ \text { farms } \end{gathered}$ | 27 least profitable farms |
| :---: | :---: | :---: | :---: |
| RETURNS AND NET INCREASES |  |  |  |
| Dairy cows | \$ 3920 | \$ 5318 | \$ 2905 |
| Other dairy cattle | 1025 | 1097 | 722 |
| Beef breeding herd | 612 | 803 | 661 |
| Feeder cattle | 12967 | 25576 | 6818 |
| Hogs | 10847 | 13600 | 10440 |
| Sheep - farm flock | 83 | 24 | 34 |
| Sheep - feeders | 17 | - | - |
| Chickens | 626 | 432 | 442 |
| Turkeys | 241 | 5 | 91 |
| All productive livestock | \$30338 | \$46855 | \$22113 |
| Value of feed fed to livestock | 19012 | 27334 | 15815 |
| Retu rn over feed from livestock | \$11326 | \$19521 | \$6298 |
| Crops, seed and feed | 22302 | 34819 | 15816 |
| Income from labor off the farm | 368 | 397 | 275 |
| Miscellaneous farm income | 1015 | 1462 | 682 |
| Total returns and net increases | \$35011 | \$56199 | \$23071 |
| EXPENSES AND NET DECREASES |  |  |  |
| Horses | 6 | 3 | 9 |
| Truck | 533 | 622 | - 412 |
| Auto (farm share) | 705 | 681 | 671 |
| Electricity (farm share) | 360 | 408 | 341 |
| Hired power | 819 | 1005 | 724 |
| Tractors and crop machinery | 4435 | 5276 | 3960 |
| Livestock equipment | 746 | 895 | 748 |
| Building, fencing and tiling | 1952 | 2419 | 1798 |
| Miscellaneous productive livestock expense | 861 | 1209 | 556 |
| Labor | 2683 | 4818 | 2110 |
| Real estate taxes | 1723 | 2364 | 1521 |
| Personal property taxes | 12 | 46 | 12 |
| General farm expense and telephone | 617 | 747 | 560 |
| Interest on farm capital @ 5.5 percent | 8385 | 11924 | 7135 |
| Total expenses and net decreases | \$23837 | \$32417 | \$20557 |
| Labor earnings | \$11174 | \$23782 | \$ 2514 |

* 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.

Table 4. Net Worth Statement for Those Farmers Who Kept a Complete Record of All Assets and Liabilities (Operator's Share), 1968

| Item | 21 Owners |  |
| :---: | :---: | :---: |
|  | Jan. 1 | Dec. 31 |
| Total acres in farm | 312 |  |
| Owned | 301 |  |
| Rented | 11 |  |
| Total farm capital - operator's | \$106218 | \$110664 |
| Stocks and bonds | 2315 | 2534 |
| Life insurance cash value | 3017 | 3231 |
| Notes and accounts receivable | 1727 | 2067 |
| Shares in cooperative organizations | 2824 | 3165 |
| Outside real estate | 4548 | 5704 |
| Cash on hand and in bank | 3180 | 3536 |
| Household furnishings and clothing | 3618 | 3818 |
| Personal share of auto and truck | 906 | 884 |
| Farm dwelling | 6973 | 7396 |
| Total non-farm assets - operator's | \$ 29108 | \$32335 |
| Total assets - operator's | \$135326 | \$142999 |
| Mortgages on farm operated | 26979 | 25205 |
| Mortgages on other real estate | 1317 | 1578 |
| Chattel mortgages | 14469 | 16468 |
| Notes payable | 7875 | 6029 |
| Accounts payable | 808 | 925 |
| Total liabilities - operator's | \$51448 | \$ 50205 |
| Net worth | \$ 83878 | \$ 92794 |
| Change in net worth |  | \$ 8916 |


| Item | 40 Part-owners |  | 10 Renters |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Jan. 1 | Dec. 31 | Jan. 1 | Dec. 31 |
| Total acres in farm | 464 |  | 380 |  |
| Owned | 244 | \% | - |  |
| Rented | 220 |  | 380 |  |
| Total farm capital - operator.'s | \$120025 | \$130217 | \$. 40326 | \$ 42066 |
| Stocks and bonds | 2671 | 3568 | 534 | 578 |
| Life insurance cash value | 3678 | 3783 | 2508 | 2755 |
| Notes and accounts receivable | 905 | 996 | 3858 | 3823 |
| Shares in cooperative organizations | 1697 | 2043 | 708 | 791 |
| Outside real estate | 2119 | 3104 | - | - |
| Cash on hand and in bank | 2500 | 2997 | 1470 | 1872 |
| Household furnishings and clothing | 3808 | 4311 | 3335 | 3432 |
| Personal share of auto | 808 | 835 | 992 | 1070 |
| Farm dwelling | 7222 | 7206 | - | - |
| Total non-farm assets - operator's | \$ 25408 | \$ 28843 | \$ 13405 | \$14321 |
| Total assets - operator's | \$145433 | \$159060 | \$. 53731 | \$ 56387 |
| Mortgages on farm operated | 31543 | 32163 | - | - |
| Mortgages on other real estate | 250 | 1149 | - | - |
| Chattel mortgages | 19577 | 23054 | 12384 | 15247 |
| Notes payable | 10612 | 10804 | 8302 | 7457 |
| Accounts payable | 601 | 543 | 2710 | 2147 |
| Total liabilities - operator's | \$ 62583 | \$ 67713 | \$ 23396 | \$ 24851 |
| Net worth | \$82850 | \$ 91347 | \$ 30335 | \$ 31536 |
| Change in net worth |  | \$ 8497 |  | \$ 1201 |

Table 5. Summary of Farm Earnings by Tenure (Operator's Share), 1968

|  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | :---: | :---: |
| Item | Owners | Part- | owners |  |  | Renters

Table 6. Household and Personal Expenses for Those Farms Which Kept Complete. Accounts of These Expenses, 1968

| Item | Average of 67 farms | 13 high in return to cap. and fam. labor | 13 low in return to cap. and fam. labor |
| :---: | :---: | :---: | :---: |
| Number of persons - family | 5.1 | 4.9 | 4.4 |
| Number of adult equivalents - family | $\begin{array}{r} 4.2 \\ .1 \end{array}$ | $\begin{array}{r} 4.0 \\ .2 \end{array}$ | $\begin{array}{r} 3.7 \\ .1 \end{array}$ |

EXPENSES

| Food and meals bought | $\$ 1529$ | $\$ 1391$ | $\$ 1221$. |
| :--- | ---: | ---: | ---: |
| Operating and supplies | 448 | 556 | 351 |
| Furnishings and equipment | 509 | 696 | 578 |
| Clothing and clothing materials | 604 | 741 | 473 |
| Personal care and spending | 216 | 305 | 129 |
| Education | 257 | 300 | 351 |
| Recreation | 209 | 274 | 166 |
| Gifts and special events | 275 | 397 | 268 |
| Medical and hospital insurance | 636 | 812 | 516 |
| Church and welfare | 409 | 542 | 270 |
| Personal share of auto expense | 292 | 318 | 256 |
| Upkeep on dwelling | 93 | 74 | 25 |
| Pers. share of tel. \& elec. expense | 140 | 128 | 126 |
| Total cash living expense | $\$ 5617$ | $\$ 6534$ | $\$ 4730$ |
| Personal share of new autos | 234 | 156 | 379 |
| New dwelling | 397 | 872 | - |
| Taxes | 810 | 2063 | 602 |
| Life insurance | 835 | 1399 | 391 |
| Other savings and investments | 878 | 2389 | 8 |
| Total household \& personal cash expense | $\$ 8771$ | $\$ 13413$ | $\$ 6110$ |
| Family living from the farm |  |  |  |
| Total cash expense and perquisites | $\$ 9092$ | $\$ 04$ | 273 |

RECEIPTS

| Return to capital and family labor | $\$ 12510$ | $\$ 23411$ | $\$ 3956$ |
| :--- | :---: | ---: | :---: |
| Income from outside investments | 160 | 448 | 49 |
| Other personal income | 877 | 2048 | 567 |

[^1]Table 7. Family Living from the Farm, 1968

| Item | Average of 136 <br> farms | Average of 136 farms |
| :---: | :---: | :---: |
| Number of adult equivalents - family | 4.6 |  |
| - other* | . 1 |  |
| Whole milk | 416 qts. | \$ 39 |
| Cream | 2 pts. | - |
| Cattle | 808 lbs . | 190 |
| Hogs | 235 lbs. | 44 |
| Sheep | 2 lbs. | - |
| Poultry | 46 lbs . | 11 |
| Eggs | 29 doz . | 8 |
|  |  | \$292 |

* Hired help or others boarded.


## CUMULATIVE EFFECT OF EXCELLING IN A NUMBER OF MANAGEMENT FACTORS

Studies of earnings of farmers in this area show that there are seven major management factors causing variations in earnings among farmers within a given year. These seven factors are (1) crop yields, (2) choice of crops, (3) returns from livestock, (4) amount of livestock, (5) size of business; (6) work accomplishments per worker, and (7) control of expenses. 1 The combined or cumulative influence of these seven management factors on earnings is shown in Table 8. The farmer's earnings are determined to a considerable extent by his accomplishments in these seven factors.

Table 8. Relation of Labor Earnings to the Number of Factors in Which the Farmer Excels

| Number of factors in which farmer excels | Number <br> of <br> farms | Your <br> farm | The length of the shaded lines is in proportion to the average operator's labor earnings | $\begin{array}{r} \text { Average } \\ \text { labor } \\ \text { earnings } \end{array}$ |
| :---: | :---: | :---: | :---: | :---: |
| None or 1 . | 17 |  | XXXXXXX | \$ 4660 |
| 2 | 29 |  | XXXXXXXXXXXXX | 8257 |
| 3 | 23 |  | XXXXXXXXXXXXX | 9190 |
| 4 | 31 |  | XXXXXXXXXXXXXXXXX | 11956 |
| 5 | 27 |  | XXXXXXXXXXXXXXXXXXXXXXX | 15422 |
| 6 or 7 | 9 |  | XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | 22505 |

The array in Table 8 indicates that it will be worthwhile for each cooperator to study carefully his ranking on pages 10 and 11, and learn his standing in respect to each of the above factors and the elements of strength and weakness in his farm business.

1. Nodland, T. R., and G. A. Pond, ${ }^{\text {FSome Factors Affecting the Earnings }}$ of Farmers in Southwestern Minnesota." University of Minnesota Department of Agricultural Economics, Report No. 219, November 1954.

Table 9. Measures of Farm Organization and Management Efficiency, 1968

| Measures used in chart on page ll | Average of 136 farms | $\begin{aligned} & 27 \text { most } \\ & \text { profit- } \\ & \text { able } \\ & \text { farms } \end{aligned}$ | 27 least profit- <br> able <br> farms |
| :---: | :---: | :---: | :---: |
| Labor earnings | \$11127 | \$23782 | \$ 2514 |
| Crop yields* | 100 | 106 | 91 |
| Percent tillable land in high return crops** | 67.4 | 68.1 | 67.3 |
| Return for $\$ 100$ feed to productive livestock*** | 100 | 111 | 87 |
| Productive livestock units per 100 acres**** | 35.2 | 36.9 | 30.4 |
| Size of business - work units | 452 | 606 | 383 |
| Work units per worker | 266 | 288 | 255 |
| Pow., mach., equip., \& bldg. expense per work unit | \$22.78 | \$19.45 | \$25.25 |
| Items related to some of the above measures: |  |  |  |
| Index of return for $\$ 100$ feed from: |  |  |  |
| Dairy cattle (see pages 16 and 17) | 100 | 117 | 78 |
| Beef cattle - breeding herd (see page 19) | 100 | 128 | 101 |
| Beef cattle - feeders (see page 20). | 100 | 109 | 87 |
| Hogs (see page 18) | 100 | 110 | 86 |
| Sheep - farm flock (see page 21) | 100 | , - ${ }^{-}$ | 188 |
| Turkeys | 100 | - | - |
| Chickens (see page 22) | 100 | 104 | 90 |
| Number of animal units | 133.9 | 199.4 | 103.6 |
| Work units on crops | 184 | 268 | 162 |
| Work units on productive livestock | 220 | 291 | 185 |
| Other work units | 48 | 47 | 36 |
| Number of family workers | 1.2 | 1.3 | 1.2 |
| Number of hired workers | . 5 | . 8 | . 3 |
| Total number of workers | 1.7 | 2.1 | 1.5 |
| Power and crop machinery expense per work unit | \$16.46 | \$13.67 | \$17.74 |
| Livestock equipment expense per work unit | 1.63 | 1.48 | 2.25 |
| Building and fencing expense per work unit | 4.69 | 4.30 | 5.26 |
| Crop acres per farm | 329 | 478 | 290 |
| Crop and power machinery expense per crop acre | \$13.79 | \$11.00 | \$13.59 |

[^2]Using your figures from page 10, locate your standing with respect to the various measures of farm organization and management efficiency. The average for the 136 farms included in this summary are located between the dotted lines across the center of this page.


Table 10. Distribution of Acres in Farm, 1968

| Item | Crop ratings* | Number growing this crop | Average of 136 farms | Ave per farm raising each crop |
| :---: | :---: | :---: | :---: | :---: |
| Canning peas | B | 5 | 1.4 | 37.4 |
| Wheat | C | 14 | 1.1 | 16.3 |
| Oats for silage | C | 19 | 2.3 | 30.2 |
| Oats for grain | D | 91 | 20.2 | 26.4 |
| Flax | C | 10 | 3.3 | 10.6 |
| Other small grain | D | 7 | 1.2 | 54.8 |
| Total small grain and peas |  | 101 | 29.5 | 39.7 |
| Corn grain | A | 136 | 160.7 | 160.7 |
| Soybeans for grain | B | 125 | 91.8 | 99.9 |
| Sweet corn | B | 5 | 1.3 | 36.6 |
| Corn silage | B | 88 | 16.0 | 24.8 |
| Other cultivated crops | D | 1 | . 2 | 28.0 |
| - Total cultivated crops |  | 136 | $\overline{270.0}$ | 270.0 |
| Alfalfa hay | B | 117 | 25.4 | 29.5 |
| Other legume hay | C | 1 | . 2 | 25.0 |
| Other tame hay | D | 2 | . 2 | 14.5 |
| Annual hay | D | 16 | 1.7 | 14.5 |
| Total tillable land in hay |  | 121 | 27.5 | 30.9 |
| Alfalfa pasture | B | 23 | 2.4 | 14.0 |
| Other tillable pasture | D | 18 | 1.4 | 10.7 |
| Total tillable land in pasture |  | 39 | 3.8 | 13.2 |
| Feed grain program (diverted acres) | B | 101 | 45.5 | 61.2 |
| Tillable land not cropped | D | 5 | . 5 | 12.0 |
| Total tillable land |  | 136 | $\overline{376.8}$ | 376.8 |
| Wild hay |  | 34 | 2.2 |  |
| Non-tillable pasture |  | 70 | 20.1 |  |
| Timber not pastured |  | 13 | . 8 |  |
| Roads and waste |  |  | 16.0 |  |
| Farmstead |  |  | 11.3 |  |
| Total acres in farm |  |  | 427.2 |  |
| Percent land tillable |  |  | 88.2 |  |
| Percent tillable land in high return | crops |  | 67.4 |  |

* A, B, C and D refer to ranking used in calculating percent of tillable land in high return crops.

Table 11. Crop Yields per Acre, 1968

| Item | Average of farms <br> growing each crop |
| :--- | ---: |
| Canning peas, dollars | $\$ 69.18$ |
| Wheat, bu. | 37.4 |
| Oats for silage, tons | 6.0 |
| Oats for grain, bu. | 60.4 |
| Flax, bu. | 17.3 |
| Corn grain, bu. | 93.8 |
| Soybeans, bu. | 25.7 |
| Sweet corn, tons | 5.8 |
| Corn silage, tons | 13.9 |
| Alfalfa hay, tons | 3.2 |
| Other legume hay, tons | 2.1 |
| Annual hay, tons | 2.6 |
| Feed grain program, dollars | $\$ 53.74$ |
| Wild hay, tons | 1.3 |

Table 12. Average Price of Feeds, 1968

|  | Value | Item | Value |
| :--- | ---: | :--- | ---: |
| Item | $\$ 1.02$ | Alfalfa hay, per ton | $\$ 20.00$ |
| Ear corn, per bu. | .62 | Timothy hay, per ton | 11.60 |
| Oats, per bu. | .96 | Wild hay, per ton | 10.00 |
| Barley, per bu. | 1.50 | Corn silage, per ton | 7.25 |
| Wheat, per bu. | 5.10 | Pasture, per mo. per cow | 4.00 |

Table 13. Returns Above Listed Costs per Acre of Crops

| Item | $\begin{aligned} & \text { Corn } \\ & \text { grain } \end{aligned}$ | $\begin{gathered} \text { Corn } \\ \text { silage } \end{gathered}$ | $\begin{aligned} & \text { Soy- } \\ & \text { beans } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Number of farms reporting | 96 | 60 | 88 |
| Yield per acre | 93.8 bu. | 14.2 tons | 26.7 bu. |
| Price per unit | \$1.00 | \$7.50 | \$2.40 |
| Total return | \$93.80 | \$106.50 | \$64.08 |
| Fertilizer | \$13.08 | \$ 13.15 | \$ . 52 |
| Seeds, herbicides, etc. | 11.18 | 10.06 | 7.42 |
| Total listed costs | \$24.26 | \$ 23.21 | \$7.94 |
| Return above listed costs | \$69.54 | \$ 83.29 | \$56.14 |
| Item |  | Alfalfa hay | Oats |
| Number of farms reporting |  | 78 | 63 |
| Yield per acre |  | 3.3 | 60.0 |
| Price per unit |  | \$21.00 | \$. 60 |
| Total return |  | \$69.30 | \$36.00 |
| Fertilizer |  | \$ 4.06 | \$ 2.83 |
| Seeds, herbicides, etc. |  | 6.34 | 3.38 |
| Total listed costs |  | \$10.40 | \$6.21 |
| Return above listed costs |  | \$58.90 | \$29.79 |

## EXPLANATION OF "WORK UNITS" AND "ANIMAL 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 14.

Table 14. Number of Work Units for Each Class of Livestock and Each Acre of Crop

| Item | Number of work units | Item | Number of work units |
| :---: | :---: | :---: | :---: |
| Dairy cows | 7.0 per cow | Small grain | . 3 per acre |
| Other dairy cattle | 1.5 per head | Sugar beets | 1.5 per acre |
| Beef breeding herd | 1.5 per cow | Sweet corn | . 7 per acre |
| Feeder cattle | . 12 per 100 lbs. | Corn husked | .6 per acre |
| Sheep - farm flock | . 6 per ewe | Corn silage | 1.0 per acre |
| Sheep - feeder | . 3 per 100 lbs. | Corn fodder | 1.0 per acre |
| Hogs | . 12 per 100 lbs. | Alfalfa hay | . 6 per acre |
| Turkeys | .1 per 100 lbs. | Soybean hay | . 6 per acre |
| Hens | 10.0 per 100 hens | Other hay crops | . 4 per acre |
| Canning peas | . 5 per acre | Labor off the farm | 1.0 per $\$ 15$ |
| Soybeans for graln | . 5 per acre |  |  |

An animal unit represents one dairy cow or bull, two other dairy cattle, $1 \frac{1}{4}$ beef cows or bulls, 1 feeder steer or heifer, $31 / 3$ other beef cattle, 7 sheep, 14 lambs, $2 \frac{1}{2}$ hogs, 5 pigs, 50 hens, or 1100 pounds of turkeys produced.

Table 15, Factors of Costs and Returns from Dairy Cows, 1968

| Item | Average of 28 farms | 14 farms highest in butterfat per cow | 14 farms lowest in butterfat per cow |
| :---: | :---: | :---: | :---: |
| Pounds of milk per cow | 11526 | 12716 | 10336 |
| Percent of butterfat in milk | 3.5 | 3.5 | 3.5 |
| Pounds of butterfat per cow | 403 | 445 | 362 |
| Price received per pound of butterfat sold | \$1.27 | \$1.28 | \$1.25 |
| Price received per cwt. of milk sold | 4.47 | 4.52 | 4.43 |
| Value of produce per cow: |  |  |  |
| Dairy product sales | \$501.03 | \$561.62 | \$440.43 |
| Dairy produce used in home | 5.21 | 4.91 | 5.52 |
| Milk fed to livestock | 8.53 | 9.35 | 7.71 |
| Net increase in value of cows | -2.78 | -2.64 | -2.91 |
| TOTAL VALUE PRODUCED | \$511.99 | \$573.24 | \$450.75 |
| Feed cost per cow: |  |  |  |
| Concentrates | \$123.90 | \$134.88 | \$112.93. |
| Roughages | 110.43 | 96.17 | 124.69 |
| Pasture | 4.64 | 5.43 | 3.84 |
| TOTAL FEED COST | \$238.97 | \$236.48 | \$241.46 |
| RETURNS ABOVE FEED COST PER COW | \$273.02 | \$336.76 | \$209.29 |
| RETURNS FOR \$100 OF FEED | \$223 | \$252 | \$195 |
| Feeds per cow, lbs.: |  |  |  |
| Corn | 4149 | 4630 | 3667 |
| Small Grain | 431 | 455 | 407 |
| Commercial feeds | 645 | 615 | 675 |
| Total concentrates | 5225 | 5700 | 4749 |
| Total hay | 6762 | 5718 | 7805 |
| Silage | 11916 | 10862 | 12970 |
| Feed cost per pound of butterfat | \$ . 59 | \$ . 53 | \$ . 67 |
| Feed cost per cwt. of milk produced | 2.07 | 1.86 | 2.33 |
| Number of cows* | 35.5 | 41.0 | 30.0 |

* 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 16. Feed Costs and Returns from Other Dairy Cattle, 1968

| Item | Average <br> of 28 <br> farms | 14 farms highest in butterfat per cow | 14 farms lowest in butterfat per cow |
| :---: | :---: | :---: | :---: |
| NET INCREASE IN VALUE OF OTHER DAIRY CATTLE | \$117.72 | \$127.55 | \$107.89 |
| TOTAL FEED COST PER HEAD | \$ 74.99 | \$ 79.64 | \$ 70.33 |
| RETURNS ABOVE FEED COST PER HEAD | \$ 42.73 | \$ 47.91 | \$ 37.56 |
| RETURNS FOR $\$ 100$ OF FEED | \$172 | \$179 | \$164 |
| Feed per head, lbs.: 1188 |  |  |  |
| Concentrates | 1333 | 1188 | 1478 |
| Hay | 2278 | 2135 | 2422 |
| Silage | 3412 | 3409 | 3416 |
| Whole milk | 160 | 187 | 134 |
| Number of head of other dairy | 41.7 | 33.6 | 49.7 |

Table 17. Feed Costs and Returns from All Dairy Cattle, 1968

| Item | Average of 28 farms | 14 farms highest in butterfat per cow | 14 farms lowest in butterfat per cow |
| :---: | :---: | :---: | :---: |
| Value of produce per cow; |  |  |  |
| Dairy products | \$506.24 | \$566.53 | \$445.95 |
| Net increase in value of dairy cattle | 145.85 | 158.98 | 132.72 |
| total value produced | \$652.09 | \$725.51 | \$578.67 |
| TOTAL FEED COST PER COW | \$326.63 | \$327.63 | \$325.63 |
| RETURNS ABOVE FEED COST PER COW | \$325.46 | \$397.88 | \$253.04 |
| RETURNS PER $\$ 100$ OF FEED | \$208 | \$230 | \$186 |
| Feed per cow, lbs.: |  |  |  |
| Concentrates | 7054 | 7697 | 6411 |
| Hay | 9476 | 8195 | 10772 |
| Silage | 16422 | 15438 | 17406 |
| Miscellaneous expenses per cow | \$32.24 | \$35.13 | \$28.77 |

Table 18. Feed Costs and Returns from Hogs, 1968

| Item |  | 85 farms with breeding stock |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Average of 102 farms | $\begin{gathered} \text { Average } \\ \text { of } 85 \\ \text { farms } \\ \hline \end{gathered}$ | 17 farms highest in returns above feed | 17 farms lowest in returns above feed | 17 farms with purchased feeder pigs |
| Pounds of hogs produced | 80202 | 83169 | 76265 | 62036 | 65368 |
| NET INCREASE IN VALUE PER CWT. PRODUCED | \$17.84 | \$18.75 | \$20.73 | \$17.38 | \$13.29 |
| FEED COST PER CWT. PRODUCED | 11.55 | 11.68 | 10.00 | 13.98 | 10.92 |
| RETURN ABOVE FEED COST PER CWT. PRODUCED | \$ 6.29 | \$ 7.07 | \$10.73 | \$ 3.40 | \$ 2.37 |
| RETURNS FOR \$100 OF FEED | \$158 | \$165 | \$210 | \$126 | \$127 |
| Price received per cwt.sold | \$18.74 | \$18.78 | \$19.79 | \$18.30 | \$18.54 |
| Weight per hog sold | 239 | 241 | 226 | 259 | 228 |
| Miscellaneous costs per cwt. produced | \$ . 44 | \$ . 48 | \$ . 54 | \$ . 37 | \$ . 27 |
| Feed per cwt. hogs produced, libs.: |  |  |  |  |  |
| Corn | 290 | 278 | 287 | 249 | 350 |
| Small grain | 27 | 29 | 20 | 45 | 14 |
| Commercial feeds | 110 | 119 | 64 | 205 | 64 |
| Total concentrates | 427 | 426 | 371 | 499 | 428 |
| Total number of litters raised | 39 | 47 | 44 | 35 | - |
| Number of pigs born per litter | 8.8 | 8.9 | 9.0 | 8.8 | - |
| Number of pigs weaned per litter | 7.4 | 7.5 | 7.6 | 7.2 | - |
| Number of feeder pigs bought | 68 | 16 | 15 | 25 | 330 |
| Total weight of feeders purchased | 2771 | 638 | 533 | 880 | 13442 |
| Price paid per feeder pig | . $\$ 16.60$ | \$15.58 | \$16.03 | \$14.43 | \$17.50 |

Table 19. Feed Costs and Returns from Beef Breeding Herd, 1968

| Item | Average of 16 farms |
| :---: | :---: |
| TOTAL VALUE PRODUCED PER COW | \$115.79 |
| Feed cost per cow: |  |
| Concentrates | \$5.89 |
| Roughages | 39.53 |
| Pasture | 27.35 |
| TOTAL FEED COST | \$72.76 |
| RETURNS ABOVE FEED COST PER COW | \$43.02 |
| RETURNS FOR \$ 100 OF FEED | \$161 |
| Miscellaneous costs per cow | \$4.51 |
| Feed per cow, 1bs.: |  |
| Concentrates | 178 |
| Hay | 2591 |
| Silage | 3912 |
| Pounds of beef produced | 18597 |
| Number of cows | 42.2 |
| Number of other beef cattle | 27.0 |

Table 20. Feed Costs and Returns from Feeder Cattle, 1968

| Items | Average of 87 farms |
| :---: | :---: |
| Pounds of beef produced | 75357 |
| NET INCREASE IN VALUE OF FEEDERS | \$26.75 |
| Feed cost per cwt. of beef produced: |  |
| Concentrates | \$14.01 |
| Roughages | 4.18 |
| Pasture | . 34 |
| TOTAL FEED COSTS | \$18.53 |
| RETURNS ABOVE FEED COST PER CWT. BEEF PRODUCED | \$8.22 |
| RETURNS FOR \$100 OF FEED | \$152 |
| Miscellaneous costs per cwt. of beef produced | \$. 64 |
| Feeds per cwt. beef produced,lbs.: |  |
| Corn | 608 |
| Small grain | 10 |
| Commercial feeds | 47 |
| Total concentrates | 665 |
| Total hay | 226 |
| Silage | 544 |
| Price paid per cwt. for beef bought | \$27.52 |
| Price received for feeder cattle sold | 25.81 |
| Number of animal units | 118.0 |

Table 2l. Feed Costs and Returns from a Farm Flock of Sheep, 1968

| Items | $\begin{aligned} & \hline \text { Average } \\ & \text { of } 8 \\ & \text { farms } \\ & \hline \end{aligned}$ |
| :---: | :---: |
| Value of produce per ewe: |  |
| Wool | \$ 5.55 |
| Net increase in value of sheep | 21.37 |
| total value produced | \$26.92 |
| Feed costs per ewe: |  |
| Concentrates | \$ 5.71 |
| Roughages | 7.02 |
| Pasture | 3.87 |
| TOTAL FEED COSTS | \$16.60 |
| RETURNS ABOVE FEED COST PER EWE | \$10.32 |
| RETURNS FOR \$100 OF FEED | \$186 |
| Miscellaneous expenses per ewe | \$1.70 |
| Feeds per ewe, lbs.: |  |
| Concentrates | 218 |
| Hay | 686 |
| Silage | 85 |
| Price per cwt. of lambs sold | \$23.83 |
| Price per pound of wool sold | \$ . 52 |
| Pounds of wool per sheep sheared | 9.1 |
| Percent lamb crop* | 112 |
| Percent death loss* | 7.9 |
| Pounds of sheep produced | 4454 |
| Number of head of ewes | 45 |

[^3]Table 22. Feed Costs and Returns from Chickens, 1968

| Items - | Average of 13 farms |
| :---: | :---: |
| Value of produce per hen: |  |
| Eggs sold and used in home | \$4.17 |
| Net increase in value of chickens | -. 18 |
| TOTAL VALUE PRODUCED | \$3.99 |
| TOTAL FEED COST PER HEN | \$3.18 |
| RETURNS ABOVE FEED COST PER HEN | \$ . 81 |
| RETURNS FOR $\$ 100$ OF FEED | \$131 |
| Miscellaneous expenses per hen | \$ . 09 |
| Feed per hen, lbs.: |  |
| Grain | 58 |
| Commercial feed | 47 |
| Total concentrates | 105 |
| Price received per dozen eggs sold | \$ . 25 |
| Eggs laid per hen 201 |  |
| Feed costs per dozen eggs produced | \$ . 19 |
| Average number of hens on farm during the year | 1482 |
| Percent death loss of hens | 9.6 |
| Number of chicks bought | 1008 |
| Number of hens bought | 411 |

Table 23. Summary by Years

|  | Average | Average | Average | Average | Average |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Item | 1940-44 | 1945-49 | 1950-54 | 1955-59 | 1960-64 | 1965 | 1966 | 1967 | 1968 |
| Number of farms | 165 | 140 | 138 | 135 | 135 | 156 | 153 | 144 | 136 |
| Total farm capital managed | \$36133 | \$40590 | \$57692 | \$75246 | \$99907 | \$118992 | \$122684 | \$137702 | \$152461 |
| Monthly charge for: |  |  |  |  |  |  |  |  |  |
| Unpaid family labor* | 63 | 118 | 130 | 134 | 147 | 160 | 160 | 160 | 160 |
| Second operator | 63 | 118 | 130 | 134 | 167 | 275 | 300 | 300 | 300 |
| Board for hired labor | 23 | 33 | 36 | 38 | 40 | 45 | 45 | 45 | 45 |
| FARM EXPENSES |  |  |  |  |  |  |  |  |  |
| Dairy cattle bought | \$ 120 | \$ 175 | \$ 215 | \$ 151 | \$ 146 | \$ 145 | \$ 135 | \$ 99 | \$ 91 |
| Beef cattle bought | 1405 | 2027 | 4097 | 7619 | 11153 | 10975 | 12295 | 12940 | 15453 |
| Hogs bought | 275 | 447 | 448 | 473 | 723 | 738 | 827 | 801 | 1040 |
| Sheep bought (incl. feeders) | 596 | 365 | 599 | 517 | 69 | 27 | 16 | 50 | 65 |
| Poultry bought (incl. turkeys) | 140 | 165 | 190 | 225 | 244 | 238 | 186 | 234 | 151 |
| Horses bought | 39 | 11 | 6 | 5 | 3 | 6 | 2 | 2 | 1 |
| Miscellaneous livestock expense | 140 | 248 | 378 | 525 | 592 | 644 | 660 | 738 | 861 |
| Fertilizer | - | - | - | 906 | 1223 | 1945 | 2311 | 3058 | 2545 |
| Miscellaneous crop expenses | 402** | 869** | 1234** | 908 | 1184 | 1782 | 1988 | 2720 | 3108 |
| Feed bought | 2041 | 3191 | 4323 | 5503 | 7225 | 8191 | 9588 | 7867 | 8449 |
| Custom work hired | 193 | 356 | 438 | 694 | 874 | 1041 | 1050 | 1284 | 1198 |
| Power and crop machinery (new) | 655 | 1669 | 1864 | 1891 | 2057 | 3881 | 4151 | 4177 | 4612 |
| Power and crop machinery (upkeep) | 675 | 1365 | 1735 | 2200 | 2718 | 3164 | 3279 | 3561 | 3643 |
| Livestock equipment (new) | 112 | 99 | 164 | 327 | 415 | 505 | 565 | 480 | 477 |
| Livestock equipment (upkeep) | 55 | 111 | 135 | 194 | 207 | 235 | 252 | 230 | 263 |
| Buildings and fencing (new) | 341 | 676 | 881 | 832 | 1018 | 1172 | 1353 | 1949 | 1964 |
| Buildings and fencing (upkeep) | 149 | 319 | 312 | 320 | 338 | 377 | 425 | 420 | 420 |
| Hired labor | 593 | 794 | 883 | 993 | 1092 | 1175 | 1223 | 1399 | 1549 |
| Taxes | 330 | 403 | 622 | 910 | 1449 | 1843 | 1841 | 2000 | 1735 |
| General farm expense | 98 | 174 | 260 | 364 | 430 | 517 | 518 | 581 | 617 |
| Total farm purchases | \$8359 | \$13464 | \$18784 | \$25557 | \$33160 | \$38601 | \$42665 | \$44590 | \$48242 |
| Decrease in farm capital | - | - | - | - | - | - | - | - | - |
| Interest on farm capital*** | 1806 | 2030 | 2885 | 3762 | 4991 | 5950 | 6134 | 7574 | 8385 |
| Unpaid family labôr | 310 | 377 | 358 | 379 | 500 | 702 | 657 | 699 | 667 |
| Board furnished hired labor | 142 | 107 | 9.1 | 92 | 82 | 89 | 72 | 69 | 88 |
| Total farm expense | \$10617 | \$15978 | \$22118 | \$29790 | \$38733 | \$45342 | \$49528 | \$52932 | \$57382 |

* These adjustments should be considered in comparing 1968 results with previous years.
** Includes fertilizer.
*** Interest was calculated at the rate of $5 \%$ on capital managed from 1940 to 1966 and at $5.5 \%$ beginning in 1967 .

Table 23. Summary by Years (continued)

| Item | Average 1940-44 | Average $1945-49$ | Average 1950-54 | Average $1955-59$ | Average $1960-64$ | 1965 | 1966 | 1967 | 1968 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FARM RECEIPTS |  |  |  |  |  |  |  |  |  |
| Dairy cattle | \$. 383 | \$ 573 | \$ 695 | \$ 585 | \$ 563 | \$ 626 | \$ 628 | \$ 774 | \$ 853 |
| Dairy products | 783 | 988 | 1085 | 1450 | 1888 | 2199 | 2633 | 3398 | 3849 |
| Beef cattle | 3140 | 4246 | 7918 | 13025 | 20180 | 21094 | 21099 | 23989 | 28325 |
| Hogs | 3622 | 6775 | 7455 | 7158 | 8431 | 11321 | 13877 | 10724 | 11548 |
| Sheep and wool | 928 | 651 | 978 | 981 | 263 | 174 | 137 | 158 | 197 |
| Poultry (incl. turkeys) | 563 | 525 | 526 | 530 | 505 | 440 | 432 | 366 | 385 |
| Eggs | 597 | 1035 | 965 | 1013 | 1074 | 863 | 1103 | 863 | 647 |
| Horses | 44 | 23 | 8 | 5 | 4 | 1 | 1 | - | 2 |
| Corn | 584 | 1138 | 1855 | 3149 | 3401 | 3961 | 4707 | 6078 | 6138 |
| Soybeans | - | - | - | - | - | - | 4567 | 5566 | 4894 |
| Small grain | 1031 | 2055 | 1236 | 807 | 882 | 598 | 594 | 504 | 627 |
| Other crops* | 400 | 879 | 1023 | 1759 | 3855 | 6452 | 2482 | 2026 | 2961 |
| Machinery and equipment sold | 196 | 364 | 367 | 266 | 373 | 457 | 267 | 434 | 504 |
| Agricultural adjustment payment | 370 | 65 | 64 | 44 | 43 | 33 | - | - | - |
| Income from work off the farm | 174 | 313 | 349 | 398 | 396 | 593 | 665 | 784 | 723 |
| Miscellaneous farm income | 224 | 78 | 137 | 306 | 386 | 503 | 678 | 844 | 1015 |
| Total farm sales | \$13039 | \$19708 | \$24661 | \$31476 | \$42244 | \$49315 | \$53870 | \$56508 | \$62668 |
| Increase in farm capital | 1098 | 2395 | 1845 | 1157 | 1205 | 6359 | 7896 | 1988 | 5596 |
| Family living from the farm | 553 | 666 | 553 | 278 | 288 | 274 | 279 | 289 | 292 |
| Total farm receipts | \$14690 | \$22769 | \$27059 | \$32911 | \$43737 | \$55948 | \$62045 | \$58785 | \$68556 |
| Total farm expenses | 10617 | 15978 | 22118 | 29790 | 38733 | 45342 | 49528 | 52932 | 57382 |
| Labor earnings | \$4073 | \$6791 | \$4941 | \$ 3121 | \$ 5004 | \$10606 | \$12517 | \$ 5853 | \$11174 |
| MEASURES OF FARM ORGANIZATION AND MANAGEMENT |  |  |  |  |  |  |  |  |  |
| Percent high return crops** | 41.2 | 56.4 | 59.7 | 63.4 | 68.1 | 65.4 | 67.5 | 70.0 | 67.4 |
| Livestock units per 100 acres*** | 23.6 | 20.3 | 30.3 | 39.4 | 43.0 | 37.4 | 38.7 | 35.6 | 35.2 |
| Work units**** | 588 | 501 | 470 | 469 | 533 | 556 | 576 | 449 | 452 |
| Work units per worker**** | 273 | 285 | 283 | 279 | 318 | 321 | 360 | 281 | 266 |
| Expenses per work unit**** | \$3.02 | \$6.23 | \$9.49 | \$12.81 | \$13.42 | \$14.95 | \$15.74 | \$21.32 | \$22.78 |

[^4]Table 24. Summary of Miscellaneous Items by Years


[^5]Table 24. Summary of Miscellaneous Items by Years (Continjed)

| Item | Average 1940-44 | $\begin{aligned} & \text { Average } \\ & 1945-49 \end{aligned}$ | $\begin{aligned} & \text { Average } \\ & 1950-54 \end{aligned}$ | $\begin{aligned} & \text { Average } \\ & 1955-59 \\ & \hline \end{aligned}$ | Average <br> 1960-64 | 1965 | 1966 | 1967 | 1968 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PRICE RECEIVED PER |  |  |  |  |  |  |  |  |  |
| Pound of butterfat in milk | \$ . 64 | \$ . 98 | \$. 94 | \$ . 91 | \$ . 94 | \$ . 98 | \$ 1.14 | \$ 1.21 | \$ 1.27 |
| 100 pounds fat cattle | 11.73 | 21.71 | 26.61 | 22.51 | 22.86 | 23.72 | 24.39 | 24.67 | 25.81 |
| Pound of wool | . 38 | . 41 | . 60 | . 51 | . 58 | . 53 | . 66 | . 44 | . 52 |
| Dozen of eggs | . 26 | . 37 | . 35 | . 29 | . 27 | . 25 | . 31 | . 22 | . 25 |
| 100 pounds of hogs sold | 10.86 | 19.54 | 19.43 | 15.96 | 15.45 | 20.34 | 23.07 | 19.27 | 18.74 |
| PRICE OF FEED |  |  |  |  |  |  |  |  |  |
| Corn, bu. | . 70 | 1.24 | 1.31 | 1.11 | . 99 | 1.13 | 1.19 | 1.12 | 1.02 |
| Oats, bu. | . 46 | . 74 | . 74 | . 59 | .61 | . 63 | . 66 | . 64 | . 62 |
| Barley, bu. | . 58 | 1.31 | 1.15 | . 92 | . 91 | . 98 | 1.02 | 1.04 | . 96 |
| Alfalfa hay, ton | 10.00 | 18.60 | 18.30 | 18.20 | 19.40 | 23.00 | 21.00 | 20.00 | 20.00 |
| Timothy hay,ton | 6.24 | 10.86 | 10.60 | 10.58 | 11.22 | 13.00 | 12.20 | 11.60 | 11.60 |
| Corn silage, ton | 3.20 | 6.07 | 6.00 | 6.08 | 6.60 | 7.75 | 7.30 | 7.25 | 7.25 |
| Soybean meal, cwt. | 2.51 | 4.15 | 4.50 | - | 4.36 | 4.60 | 5.25 | 5.00 | - |
| ACRES PER FARM |  |  |  |  |  |  |  |  |  |
| Small grains | 89.9 | 73.9 | 70.5 | 48.8 | 39.5 | 26.3 | 27.4 | 24.2 | 29.5 |
| Cultivated crops | 89.5 | 100.3 | 107.0 | 153.7 | 187.0 | 228.9 | 233.8 | 267.6 | 270.0 |
| Tillable land in hay | 27.4 | 19.1 | 28.1 | 34.9 | 31.0 | 29.1 | 27.4 | 27.4 | 27.5 |
| Tillable land in pasture | 24.5 | 15.2 | 14.8 | 13.2 | 6.8 | 6.1 | 4.5 | 4.0 | 3.8 |
| Tillable land not cropped | 5.1 | 2.4 | 1.4 | 2.2 | 25.9* | 46.4* | 35.0* | 26.7* | 46.0* |
| Total tillable land | 236.4 | 210.9 | 221.8 | 252.8 | 290.2 | 336.8 | 328.1 | 349.9 | 376.8 |
| Non-tillable land | 45.6 | 43.1 | 43.4 | 40.5 | 44.6 | 48.2 | 44.0 | 49.6 | 50.4 |
| Total acres per farm | 282.0 | 254.0 | $\overline{265.2}$ | 293.3 | 334.8 | 385.0 | 372.1 | 399.5 | 427.2 |
| YIELDS PER ACRE |  |  |  |  |  |  |  |  |  |
| Flax, bu. | 10.5 | 13.7 | 11.5 | 13.0 | 13.6 | 18.2 | 10.9 | 19.3 | 17.3 |
| Oats, bu. | 40.4 | 46.3 | 41.4 | 51.7 | 54.8 | 61.2 | 58.9 | 61.3 | 60.4 |
| Corn grain, bu. | 49.7 | 47.8 | 53.7 | 57.1 | 71.3 | 62.7 | 84.0 | 81.2 | 93.8 |
| Corn silage, tons | 8.9 | 8.4 | 9.2 | 9.7 | 11.8 | 10.7 | 13.2 | 12.3 | 13.9 |
| Soybeans, bu. | 17.8 | 14.4 | 19.8 | 22.5 | 25.5 | 20.2 | 26.9 | 23.7 | 25.7 |
| Alfalfa hay, tons | 2.2 | 2.1 | 2.5 | 2.5 | 3.0 | 2.8 | 2.9 | 3.0 | 3.2 |

[^6]
[^0]:    * The authors are indebted to Barbara Miller, Dorothy Spreck and Eileen Miley for their assistance in the preparation of this report.

[^1]:    * Hired help or others boarded.

[^2]:    * Given as a percentage of the average.
    * Crops are marked in Table 10 as $A, B, C$, and D. All of the acres in A crops, one-half of the acres in $B$ crops, and one-fourth of 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.

[^3]:    * Lambs which die during month of birth are not included.

[^4]:    * Includes soybeans 1940-1965.
    ** The crop ratings used in calculating the percentage of the tillable land in high return crops were changed considerably in 1944 and 1957.
    *** The basis for computing animal units was revised in 1951.
    **** The basis for computing work units was revised in 1953 and 1967.

[^5]:    * Information not available.

[^6]:    * Including feed grain program.

