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1957 ANNUAL REPORT

NORTHEASTERN MINNESOTA FARM MANAGEMENT SERVICE

Department of Agricultural Economics
and
Agricultural Extension Service
UNIVERSITY OF MINNESOTA

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1957 ANNUAL REPORT OF THE NORTHEASTERN MINNESOTA
FARM MANAGEMENT SERVICE

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INTRODUCTION

A project was started in northeastern Minnesota in 1954 by the Agricultural Extension Service with the object of obtaining a few examples of well-operated farms to use for teaching purposes. The farms were chosen as fairly representative of the size and conditions of farming in this area, and were restricted to those which appeared to need some reorganization in order to make substantial financial progress. With the help of the county agents, farms were chosen in the counties of Aitkin, Beltrami, Carlton, Itasca, Pine and St. Louis. Ermond Hartmans, farm management specialist of the University of Minnesota, supervised the records on eighteen farms during 1954, sixteen farms during 1955, fifteen farms for 1956 and seventeen farms in 1957. In addition to this he assisted these farmers in planning the management of their farms.

The results for each farm are given in the following tables with the intention of showing up the various factors affecting farm incomes of individual farms, the effects of which are often hidden by averages. In most tables the farms are arranged in descending order of labor earnings, or according to some other important factor, such as return to capital and family labor or butterfat production per cow.

The capital investment of these farms is approximately \$21,000 per farm. At the end of 1957 the investment in livestock was \$5567 and in machinery and equipment over \$4500. Land was valued at \$4280 and buildings at \$4172. In the area studied an investment of this size enables a farmer who meets present day standards in farm organization and operation to make an above average income.

One of the more significant items in the following tables is the level of farm expenses. Average total cash expenses were \$8399 and the lowest incurred by any farmer was \$1358. In 1957 two of these 17 farmers did not obtain sufficient farm income to cover expenses and, in addition, the family living had to be financed from outside employment, or by drawing on accumulated capital, thus reducing the farmer's net worth. The average personal expenses were \$2769 per family.

The primary factors affecting labor earnings are (1) volume of business, (2) crop yields, (3) return for \$100 feed to productive livestock, (4) choice of crops, (5) amount of livestock per 100 acres, (6) work accomplished per worker and (7) control over expenses.

Volume of business, probably the most important single factor, can be increased in several ways. The addition of fertilizers to the soil, good seed and good cultural practices will produce larger crops. This in turn will permit the farmer to increase the amount of livestock maintained. In addition he has the possibility of purchasing feed in order to maintain more livestock. In some cases it is possible to rent or purchase more land and thereby add to the volume of business.

EXPLANATION OF "WORK UNITS"

The total "work units" for any one farm is a measure of the size of that farm business. A work unit as used in this report is the average accomplishment of a farm worker, in a ten-hour day, working on crops and productive livestock at average efficiency or ten hours of work off the farm for pay. The number of work units for each class of livestock and each acre of crop are presented in Table 1.

Table 1. Number of Work Units for Each Class of Livestock and Each Acre of Crop

| Class of Livestock | No. of Work Units | Crop | No. of Work Units |
|-------------------------------------|-------------------|--------------|-------------------|
| Dairy and dual-purpose cows | 10.0 per cow | Small grain | .7 per acre |
| Other dairy and dual-purpose cattle | 3.5 per an. unit* | Truck crops | 6.0 per acre |
| Beef breeding herd | 3.5 per an. unit* | Potatoes | 3.8 per acre |
| Feeder cattle | .25 per 100 lbs. | Corn--husked | 1.1 per acre |
| Sheep--farm flock | 1.5 per an. unit* | Corn--silage | 1.7 per acre |
| Sheep--feeder | .3 per 100 lbs. | Oat silage | .9 per acre |
| Hogs | .2 per 100 lbs. | Alfalfa hay | .9 per acre |
| Turkeys | .5 per 100 lbs. | Other hay | .6 per acre |
| Hens | 20.0 per 100 hens | Legume seed | 1.0 per acre |

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

Table 2. Summary of Farm Inventories, 1957

| Items | Ave. of 17 farms | Farm Number | | | | | | | |
|----------------------------------|---------------------|-------------|----------|----------|----------|----------|----------|----------|----------|
| | | 31 | 1 | 2 | 9 | 3 | 6 | 19 | 5 |
| Beginning of Year | | | | | | | | | |
| Size of farms (acres) | 257 | 120 | 240 | 205 | 240 | 160 | 144 | 993 | 150 |
| Size of business (work units)* | 333 | 357 | 369 | 365 | 391 | 258 | 279 | 279 | 201 |
| Dairy and dual purpose cattle | \$4,505 | \$ -- | \$6,835 | \$3,795 | \$3,393 | \$6,285 | \$4,015 | \$2,513 | \$2,234 |
| Other livestock | 621 | 7,838 | -- | -- | 885 | -- | -- | -- | 5 |
| Crop, seed and feed | 1,614 | 2,378 | 2,475 | 1,207 | 1,662 | 1,483 | 1,096 | 1,399 | 783 |
| Auto and truck (farm share) | 813 | 2,010 | 1,430 | 375 | 540 | 764 | 1,680 | 188 | 60 |
| Tractors | 1,159 | 2,393 | 719 | 1,826 | 1,900 | 810 | 1,993 | 1,355 | 445 |
| Crop and general machinery | 1,901 | 3,644 | 2,559 | 1,158 | 1,135 | 1,811 | 1,190 | 1,890 | 499 |
| Livestock equipment and supplies | 1,333 | 598 | 2,340 | 499 | 910 | 2,131 | 382 | 27 | 116 |
| Land | 4,180 | 2,200 | 8,000 | 3,800 | 2,750 | 3,400 | 2,500 | 3,601 | 1,500 |
| Buildings, fences, etc. | 4,197 | 2,643 | 2,176 | 5,691 | 4,338 | 5,044 | 2,514 | 7,504 | 1,915 |
| Total farm capital | \$20,323 | \$23,704 | \$26,534 | \$18,351 | \$17,513 | \$21,728 | \$15,370 | \$18,477 | \$ 7,557 |
| End of Year | | | | | | | | | |
| Total farm capital | 21,073 | 20,854 | 27,262 | 21,789 | 20,038 | 23,219 | 14,595 | 25,570 | 7,693 |

| Items | 34 | 10 | 30 | 11 | 35 | 8 | Farm Number | | |
|----------------------------------|----------|----------|----------|----------|----------|----------|-------------|----------|----------|
| | | | | | | | 15 | 13 | 18 |
| Beginning of Year | | | | | | | | | |
| Size of farm (acres) | 200 | 180 | 80 | 120 | 240 | 265 | 400 | 390 | 240 |
| Size of business (work units)* | 430 | 292 | 241 | 198 | 465 | 269 | 410 | 412 | 455 |
| Dairy and dual purpose cattle | \$5,575 | \$4,745 | \$2,313 | \$1,718 | \$5,450 | \$5,065 | \$5,855 | \$6,380 | \$10,420 |
| Other livestock | 1,000 | 444 | 259 | -- | -- | 130 | -- | -- | -- |
| Crop, seed and feed | 2,594 | 2,618 | 254 | 744 | 1,701 | 1,125 | 1,880 | 2,703 | 1,345 |
| Auto and truck (farm share) | 1,120 | -- | 203 | 644 | 432 | 1,228 | 1,075 | 680 | 1,387 |
| Tractors | 375 | 179 | 525 | 130 | 3,100 | 1,235 | 359 | 1,286 | 1,076 |
| Crop and general machinery | 1,111 | 1,062 | 1,044 | 1,155 | 3,675 | 1,573 | 3,465 | 1,984 | 3,367 |
| Livestock equipment and supplies | 375 | 795 | 2,076 | 37 | 822 | 2 | 4,597 | 2,695 | 4,257 |
| Land | 4,500 | 4,022 | 650 | 1,920 | 11,000 | 6,597 | 5,000 | 4,000 | 5,630 |
| Buildings, fences, etc. | 6,187 | 4,000 | 2,880 | 2,326 | 2,788 | 2,483 | 5,376 | 8,478 | 5,013 |
| Total farm capital | \$22,837 | \$17,865 | \$10,204 | \$ 8,674 | \$28,968 | \$19,438 | \$27,608 | \$28,206 | \$32,495 |
| End of Year | | | | | | | | | |
| Total farm capital | 26,014 | 19,780 | 9,216 | 9,839 | 31,716 | 18,192 | 26,036 | 27,432 | 29,042 |

* See page 2 for an explanation of work units.

Table 3. Summary of Farm Earnings (Cash Statement) 1957

| Items | Ave. of 17 farms | Farm Number | | | | | |
|--|---------------------|-------------|---------|---------|---------|---------|---------|
| | | 31 | 1 | 2 | 9 | 3 | 6 |
| <u>Farm Receipts</u> | | | | | | | |
| 1. Dairy cattle | \$ 966 | \$ -- | \$ 2055 | \$ 888 | \$ 1493 | \$ 575 | \$ 582 |
| 2. Dairy products | 6851 | -- | 10365 | 8284 | 7735 | 7292 | 5189 |
| 3. Beef cattle | 1328 | 13313 | -- | -- | -- | -- | -- |
| 4. Hogs | 25 | -- | -- | -- | -- | -- | -- |
| 5. Sheep and wool | 95 | -- | -- | -- | 1165 | -- | -- |
| 6. Poultry | 460 | 6367 | -- | -- | -- | -- | -- |
| 7. Eggs | 1935 | 31056 | -- | -- | -- | -- | -- |
| 8. Crops | 121 | 449 | 108 | 32 | 400 | 40 | -- |
| 9. Mach. and equip. sold | 150 | 133 | 166 | 156 | 205 | 57 | 54 |
| 10. Income from work off farm | 254 | 82 | -- | 359 | 1380 | -- | -- |
| 11. Miscellaneous | 331 | 41 | 930 | 1371 | 117 | 384 | 207 |
| 12. Total farm sales | \$12516 | \$51441 | \$13624 | \$11090 | \$12495 | \$ 8348 | \$ 6032 |
| 13. Increase in farm capital | 750 | -- | 728 | 3438 | 2525 | 1491 | -- |
| 14. Family living from farm | 213 | 23 | 389 | 124 | 70 | 320 | 73 |
| 15. Total farm receipts | \$13479 | \$51464 | \$14741 | \$14652 | \$15090 | \$10159 | \$ 6105 |
| <u>Farm Expenses</u> | | | | | | | |
| 16. Dairy cattle bought | \$ 591 | \$ -- | \$ -- | \$ 610 | \$ 500 | \$ -- | \$ -- |
| 17. Beef cattle bought | 998 | 6049 | -- | -- | -- | -- | -- |
| 18. Hogs bought | 6 | -- | -- | -- | -- | -- | -- |
| 19. Sheep bought | 13 | -- | -- | -- | 217 | -- | -- |
| 20. Poultry bought | 439 | 7352 | -- | -- | -- | -- | -- |
| 21. Misc. livestock expenses | 405 | 1058 | 462 | 552 | 770 | 319 | 66 |
| 22. Feed | 2932 | 17716 | 1613 | 1363 | 2235 | 1014 | 619 |
| 23. Fertilizers | 281 | 687 | 233 | 93 | 424 | 234 | 239 |
| 24. Other crop expenses | 242 | 147 | 353 | 169 | 71 | 200 | 156 |
| 25. Custom work hired | 559 | 518 | 1019 | 283 | 997 | 631 | 425 |
| 26. Gas, oil, grease (f. sh.) | 526 | 654 | 571 | 672 | 378 | 417 | 421 |
| 27. Rep. tract., trucks, autos (farm share) | 248 | 285 | 132 | 185 | 143 | 128 | 46 |
| 28. Rep. farm real estate | 77 | 294 | 134 | 81 | -- | 35 | -- |
| 29. Rep. crop & gen. mach. | 114 | 326 | 105 | 58 | 21 | 82 | 133 |
| 30. Rep. livestock equip. | 49 | -- | 116 | 37 | 13 | 60 | -- |
| 31. Wages of hired labor | 267 | 278 | 312 | 297 | -- | 25 | -- |
| 32. Elec. expense (farm share) | 207 | 330 | 255 | 216 | 100 | 270 | 80 |
| 33. Real estate and pers. prop. taxes | 281 | 385 | 219 | 180 | 120 | 231 | 265 |
| 34. Tel. & gen. farm expense | 164 | 155 | 45 | 277 | 101 | 132 | 78 |
| 35. Total cash operating exp. | \$ 8399 | \$36234 | \$ 5569 | \$ 5073 | \$ 6090 | \$ 3778 | \$ 2528 |
| 36. Mech. power bot (f. share) | 524 | -- | 266 | 140 | 2850 | 1275 | -- |
| 37. Crop & gen. mach. bot | 487 | 80 | 95 | 2525 | 400 | 225 | -- |
| 38. Livestock equip. bought | 166 | -- | 200 | 1102 | 79 | 200 | -- |
| 39. New real est. improvements | 424 | -- | 1549 | -- | 403 | 77 | -- |
| 40. Total farm purchases | \$10000 | \$36314 | \$ 7679 | \$ 8840 | \$ 9822 | \$ 5555 | \$ 2528 |
| 41. Decrease in farm capital | -- | 2850 | -- | -- | -- | -- | 774 |
| 42. Interest on farm capital | 1035 | 1114 | 1345 | 1003 | 939 | 1124 | 749 |
| 43. Unpaid family labor | 576 | -- | 810 | 675 | 810 | 810 | 334 |
| 44. Board furnished hired lab. | 32 | -- | -- | -- | -- | -- | -- |
| 45. Total farm expenses | \$11643 | \$40278 | \$ 9834 | \$10518 | \$11571 | \$ 7489 | \$ 4385 |
| 46. Labor earnings | \$ 1836 | \$11186 | \$ 4907 | \$ 4134 | \$ 3519 | \$ 2670 | \$ 1720 |

Table 3. Summary of Farm Earnings (Cash Statement) 1957 (continued)

| | Farm Number | | | | | | | | | | | |
|-----|-------------|--------|---------|---------|--------|--------|---------|---------|---------|---------|---------|--|
| | 19 | 5 | 34 | 10 | 30 | 11 | 35 | 8 | 15 | 13 | 18 | |
| 1. | \$ 719 | \$ 347 | \$ 976 | \$ 1278 | \$ 372 | \$ 434 | \$ 436 | \$ 1440 | \$ 1476 | \$ 931 | \$ 2425 | |
| 2. | 3247 | 2580 | 7939 | 6986 | 3828 | 4120 | 11954 | 2896 | 12821 | 8324 | 12903 | |
| 3. | 9269 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 4. | -- | -- | -- | -- | -- | -- | -- | 428 | -- | -- | -- | |
| 5. | -- | -- | -- | 444 | -- | -- | -- | -- | -- | -- | -- | |
| 6. | -- | 103 | 742 | -- | 339 | 267 | -- | -- | -- | -- | -- | |
| 7. | 11 | -- | 630 | -- | 1161 | 30 | -- | -- | -- | -- | -- | |
| 8. | 106 | -- | 128 | 170 | -- | 550 | -- | -- | 75 | -- | -- | |
| 9. | 170 | 41 | 600 | 203 | 10 | 51 | 153 | -- | 151 | 336 | -- | |
| 10. | 147 | 2 | 1027 | -- | 221 | 150 | 346 | 400 | 112 | 87 | 75 | |
| 11. | 1077 | 49 | 199 | 190 | -- | 144 | 102 | 156 | 243 | 165 | 252 | |
| 12. | \$14746 | \$3122 | \$12241 | \$ 9271 | \$5931 | \$5746 | \$12991 | \$5320 | \$14878 | \$ 9843 | \$15655 | |
| 13. | 7093 | 136 | 3177 | 1915 | -- | 1165 | 2748 | -- | -- | -- | -- | |
| 14. | 80 | 218 | 335 | 257 | 373 | 103 | 307 | 150 | 198 | 340 | 254 | |
| 15. | \$21919 | \$3476 | \$15753 | \$11443 | \$6304 | \$7014 | \$16046 | \$5470 | \$15076 | \$10183 | \$15909 | |
| 16. | 4680 | -- | 1630 | 1804 | -- | -- | -- | 25 | 800 | -- | -- | |
| 17. | 10917 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 18. | -- | -- | -- | -- | -- | -- | -- | 105 | -- | -- | -- | |
| 19. | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 20. | -- | 5 | -- | -- | 73 | 29 | -- | -- | -- | -- | -- | |
| 21. | 250 | 68 | 378 | 373 | 247 | 280 | 393 | 41 | 647 | 363 | 613 | |
| 22. | 1046 | 284 | 2282 | 1376 | 1801 | 1729 | 3980 | 411 | 2696 | 1959 | 7743 | |
| 23. | 81 | 4 | 15 | 531 | -- | 100 | 936 | 42 | 719 | 258 | 172 | |
| 24. | 380 | 111 | 96 | 222 | 154 | 273 | 107 | 203 | 599 | 483 | 385 | |
| 25. | 358 | 218 | 232 | 741 | 257 | 663 | 317 | 84 | 1127 | 555 | 1083 | |
| 26. | 376 | 228 | 359 | 381 | 255 | 306 | 859 | 407 | 909 | 770 | 977 | |
| 27. | 118 | 46 | 293 | 261 | 194 | 425 | 543 | 203 | 448 | 244 | 518 | |
| 28. | 6 | 2 | 42 | 258 | 14 | 76 | -- | 12 | 57 | 42 | 261 | |
| 29. | 42 | 54 | -- | 100 | 20 | 138 | 427 | 40 | 88 | 147 | 160 | |
| 30. | 28 | 39 | -- | 86 | 3 | 38 | 115 | 37 | 122 | 46 | 99 | |
| 31. | 29 | 10 | -- | 99 | -- | 161 | 232 | 135 | 2150 | 606 | 204 | |
| 32. | 72 | 64 | 212 | 283 | 153 | 80 | 258 | 108 | 312 | 383 | 342 | |
| 33. | 524 | 185 | 246 | 322 | 126 | 290 | 427 | 345 | 284 | 420 | 202 | |
| 34. | 81 | 40 | 641 | 100 | 75 | 142 | 124 | 151 | 389 | 91 | 171 | |
| 35. | \$18988 | \$1358 | \$ 6426 | \$ 6937 | \$3372 | \$4730 | \$ 8718 | \$2349 | \$11347 | \$ 6367 | \$12930 | |
| 36. | 338 | -- | 905 | 270 | -- | 638 | 1638 | -- | 169 | 413 | -- | |
| 37. | 53 | 50 | 1861 | 688 | 140 | 455 | 1117 | 325 | 64 | 205 | -- | |
| 38. | 30 | 311 | -- | 115 | -- | 73 | 38 | -- | -- | -- | 668 | |
| 39. | -- | -- | 2338 | 104 | -- | -- | 1943 | -- | -- | 795 | -- | |
| 40. | \$19409 | \$1719 | \$11530 | \$ 8114 | \$3512 | \$5896 | \$13454 | \$2674 | \$11580 | \$ 7780 | \$13598 | |
| 41. | -- | -- | -- | -- | 988 | -- | -- | 1246 | 1572 | 774 | 3453 | |
| 42. | 1101 | 381 | 1221 | 941 | 485 | 463 | 1517 | 941 | 1341 | 1390 | 1538 | |
| 43. | -- | -- | 2025 | 1485 | 540 | -- | 473 | -- | -- | 1350 | 473 | |
| 44. | -- | -- | -- | -- | -- | -- | 40 | 76 | 380 | -- | 44 | |
| 45. | \$20510 | \$2100 | \$14776 | \$10540 | \$5525 | \$6359 | \$15484 | \$4937 | \$14873 | \$11294 | \$19106 | |
| 46. | \$ 1409 | \$1376 | \$ 977 | \$ 903 | \$ 779 | \$ 655 | \$ 562 | \$ 533 | \$ 203 | \$-1111 | \$-3197 | |

Table 4. Summary of Farm Earnings (Enterprise statement) 1957

| Items | Ave. of Farm Number | | | | | | | | | |
|-----------------------------------|---------------------|---------|----------|---------|---------|---------|---------|---------|---------|--|
| | 17 farms | 31 | 1 | 2 | 9 | 3 | 6 | 19 | 5 | |
| <u>RETURNS AND NET INCREASES</u> | | | | | | | | | | |
| Dairy & dual-purpose cows | \$ 6814 | \$ -- | \$ 10418 | \$ 8793 | \$ 7720 | \$ 7493 | \$ 5150 | \$ 3409 | \$ 2774 | |
| Other dairy & dual-purpose cattle | 1254 | -- | 2172 | 820 | 1922 | 1576 | 1059 | 506 | 402 | |
| Feeder cattle | 404 | 5614 | -- | -- | -- | -- | -- | 1252 | -- | |
| Hogs | 31 | -- | -- | -- | -- | -- | -- | -- | -- | |
| Sheep--farm flock | 4 | -- | -- | -- | 63 | -- | -- | -- | -- | |
| Turkeys | 1770 | 30094 | -- | -- | -- | -- | -- | -- | -- | |
| Chickens | 126 | -- | -- | -- | -- | -- | -- | 11 | 157 | |
| All productive livestock | \$10403 | \$35708 | \$12590 | \$ 9613 | \$ 9705 | \$ 9069 | \$ 6209 | \$ 5178 | \$ 3333 | |
| Value of feed fed | 5273 | 20578 | 4713 | 4496 | 3958 | 3465 | 3183 | 3030 | 1711 | |
| Livestock return over feed | \$ 5130 | \$15130 | \$ 7877 | \$ 5117 | \$ 5747 | \$ 5604 | \$ 3026 | \$ 2148 | \$ 1622 | |
| Crops, seed and feed | 1931 | 2569 | 2841 | 3543 | 1682 | 1961 | 2183 | 2317 | 1221 | |
| Income from labor off farm | 214 | 82 | -- | 298 | 1380 | -- | -- | 50 | 2 | |
| Miscellaneous | 331 | 41 | 930 | 1371 | 117 | 384 | 207 | 1077 | 49 | |
| Total returns & net increases | \$ 7606 | \$17822 | \$11648 | \$10329 | \$ 8926 | \$ 7949 | \$ 5416 | \$ 5592 | \$ 2894 | |
| <u>EXPENSES AND NET DECREASES</u> | | | | | | | | | | |
| Truck (farm share) | 238 | 61 | -- | 424 | 135 | -- | 17 | 28 | -- | |
| Auto (farm share) | 319 | 457 | 332 | 129 | 314 | 286 | 507 | 241 | 104 | |
| Tractor | 562 | 804 | 653 | 701 | 540 | 502 | 726 | 580 | 193 | |
| Elec. & gas eng. exp. (f. share) | 217 | 330 | 258 | 257 | 100 | 270 | 80 | 72 | 79 | |
| Hired power | 291 | 244 | 507 | 95 | 459 | 368 | 193 | 215 | 131 | |
| Total power | \$ 1627 | \$ 1896 | \$ 1750 | \$ 1606 | \$ 1548 | \$ 1426 | \$ 1523 | \$ 1136 | \$ 507 | |
| Crop and general machinery | 575 | 1008 | 700 | 649 | 418 | 394 | 407 | 431 | 125 | |
| Livestock equipment | 178 | 95 | 277 | 194 | 146 | 237 | 23 | 34 | 33 | |
| Buildings, fences, etc. | 426 | 518 | 460 | 665 | 212 | 337 | 81 | 454 | 83 | |
| Misc. prod. livestock expense | 405 | 1057 | 462 | 552 | 770 | 319 | 66 | 250 | 68 | |
| Labor | 1078 | 408 | 1483 | 1068 | 1154 | 1080 | 505 | 172 | 97 | |
| Real estate taxes | 177 | 164 | 125 | 89 | 60 | 122 | 160 | 383 | 141 | |
| Personal property taxes | 104 | 221 | 95 | 92 | 59 | 109 | 104 | 141 | 44 | |
| Insurance | 52 | 37 | 6 | -- | -- | 62 | 47 | 26 | -- | |
| General farm expense | 113 | 118 | 38 | 277 | 101 | 70 | 31 | 54 | 39 | |
| Interest on farm capital | 1035 | 1114 | 1345 | 1003 | 939 | 1123 | 749 | 1102 | 381 | |
| Total exp. and net decreases | \$ 5770 | \$ 6636 | \$ 6741 | \$ 6195 | \$ 5407 | \$ 5279 | \$ 3696 | \$ 4183 | \$ 1518 | |
| Labor earnings | \$ 1836 | \$11186 | \$ 4907 | \$ 4134 | \$ 3519 | \$ 2670 | \$ 1720 | \$ 1409 | \$ 1376 | |

Table 4. Summary of Farm Earnings (Enterprise Statement) 1957 (continued)

| Items | Farm Number | | | | | | | | |
|------------------------------------|-------------|---------|---------|---------|----------|---------|----------|----------|----------|
| | 34 | 10 | 30 | 11 | 35 | 8 | 15 | 13 | 18 |
| <u>RETURNS AND NET INCREASES</u> | | | | | | | | | |
| Dairy & dual-purpose cows | \$ 7603 | \$ 6923 | \$ 3803 | \$ 4377 | \$ 12128 | \$ 2378 | \$ 11748 | \$ 8933 | \$ 12185 |
| Other dairy & dual-purpose cattle | 1860 | 2039 | 831 | 830 | 1636 | 978 | 1826 | 1949 | 905 |
| Feeder cattle | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Hogs | -- | -- | -- | -- | -- | 524 | -- | -- | -- |
| Sheep--farm flock | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Turkeys | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Chickens | 372 | -- | 1301 | 309 | -- | -- | -- | -- | -- |
| All productive livestock | \$ 9835 | \$ 8962 | \$ 5935 | \$ 5516 | \$ 13764 | \$ 3880 | \$ 13574 | \$ 10882 | \$ 13090 |
| Value of feed fed | 4063 | 4828 | 3144 | 2873 | 6710 | 2833 | 5706 | 6293 | 8056 |
| Livestock return over feed | \$ 5772 | \$ 4134 | \$ 2791 | \$ 2643 | \$ 7054 | \$ 1047 | \$ 7868 | \$ 4589 | \$ 5034 |
| Crops, seed and feed | 1058 | 2923 | 1148 | 1313 | 1198 | 2397 | 1851 | 2021 | 594 |
| Income from labor off farm | 746 | -- | 221 | 150 | 104 | 400 | 112 | 87 | -- |
| Miscellaneous | 199 | 190 | -- | 144 | 102 | 156 | 243 | 165 | 252 |
| Total returns & net increases | \$ 7775 | \$ 7247 | \$ 4160 | \$ 4250 | \$ 8458 | \$ 4000 | \$ 10074 | \$ 6862 | \$ 5880 |
| <u>EXPENSES AND NET DECREASES</u> | | | | | | | | | |
| Truck (farm share) | 521 | -- | 291 | 205 | 450 | 151 | 382 | 293 | 1081 |
| Auto (farm share) | -- | 228 | -- | 339 | 697 | 233 | 743 | 311 | 507 |
| Tractor | -42 | 258 | 444 | 363 | 901 | 702 | 626 | 824 | 777 |
| Elec. & gas eng. exp. (farm share) | 212 | 299 | 163 | 80 | 267 | 108 | 312 | 448 | 354 |
| Hired Power | 78 | 415 | 116 | 343 | 79 | 38 | 676 | 327 | 659 |
| Total power | \$ 769 | \$ 1200 | \$ 1014 | \$ 1330 | \$ 2394 | \$ 1232 | \$ 2739 | \$ 2203 | \$ 3378 |
| Crop and general machinery | 317 | 817 | 307 | 457 | 1288 | 286 | 609 | 633 | 926 |
| Livestock equipment | 119 | 257 | 188 | 60 | 293 | 39 | 449 | 89 | 492 |
| Buildings, fences, etc. | 999 | 468 | 312 | 171 | 635 | 191 | 431 | 609 | 613 |
| Misc. prod. livestock expenses | 378 | 373 | 247 | 280 | 393 | 41 | 647 | 363 | 613 |
| Labor | 2108 | 1866 | 628 | 400 | 826 | 239 | 2983 | 2174 | 1144 |
| Real estate taxes | 155 | 218 | 55 | 242 | 235 | 234 | 192 | 284 | 150 |
| Personal property taxes | 91 | 104 | 70 | 49 | 191 | 112 | 92 | 136 | 52 |
| Insurance | 123 | 15 | 11 | 83 | 70 | 87 | 193 | 43 | 74 |
| General farm expense | 518 | 85 | 64 | 60 | 54 | 65 | 195 | 48 | 97 |
| Interest on farm capital | 1221 | 941 | 485 | 463 | 1517 | 941 | 1341 | 1391 | 1538 |
| Total expenses and net decreases | \$ 6798 | \$ 6344 | \$ 3381 | \$ 3595 | \$ 7896 | \$ 3467 | \$ 9871 | \$ 7973 | \$ 9077 |
| Labor earnings | \$ 977 | \$ 903 | \$ 779 | \$ 655 | \$ 562 | \$ 533 | \$ 203 | \$ -1111 | \$ -3197 |

* 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 labor earnings are the same as those on pages 3 to 5.

Table 5. Household and Personal Expenses for Those Farmers Who Kept Accounts of These Expenses, 1957

| Items | Ave. of 13 farms | Farm Number | | | | | |
|---|---------------------|-------------|---------|---------|---------|---------|---------|
| | | 1 | 18 | 2 | 9 | 3 | 10 |
| Number of persons--family | 5.5 | 7.0 | 6.2 | 7.0 | 6.0 | 5.7 | 7.0 |
| Number of adult equivalent--family | 3.8 | 4.9 | 3.9 | 4.7 | 5.1 | 4.4 | 5.0 |
| other* | .1 | -- | .1 | -- | .2 | -- | -- |
| <u>Expenses</u> | | | | | | | |
| Food and meals bought | \$ 904 | \$ 819 | \$ 1453 | \$ 1164 | \$ 1105 | \$ 1032 | \$ 677 |
| Operating and supplies | 174 | -- | 298 | 187 | 115 | 216 | 60 |
| Furnishings and equipment | 223 | -- | 217 | 260 | 68 | 82 | 521 |
| Clothing and clothing materials | 247 | 69 | 384 | 283 | 270 | 413 | 202 |
| Personal care and spending | 60 | 5 | 25 | 87 | 95 | 42 | 13 |
| Education and recreation | 120 | -- | 46 | 211 | 391 | 190 | 39 |
| Gifts and special events | 71 | -- | 88 | 76 | 19 | 54 | 39 |
| Medical and hospital insurance | 283 | 104 | 159 | 45 | 168 | 295 | 276 |
| Church and welfare | 52 | -- | 10 | 137 | -- | 25 | 65 |
| Personal share of auto expense | 63 | -- | 41 | 109 | 106 | 20 | 49 |
| Upkeep on dwelling | 144 | -- | -- | 513 | -- | 4 | 163 |
| Personal share of tel. & elect. expense | 79 | 67 | 100 | 87 | 173 | 40 | 79 |
| Total cash living expense | \$ 2420 | \$ 1064 | \$ 2821 | \$ 3159 | \$ 2510 | \$ 2413 | \$ 2183 |
| Personal share of new autos | 40 | -- | -- | -- | -- | -- | 67 |
| New dwelling | 78 | -- | -- | -- | 1008 | -- | -- |
| Taxes | 73 | 122 | -- | 80 | -- | 89 | 33 |
| Life insurance | 116 | -- | 136 | 297 | 122 | -- | -- |
| Other savings and investments | 42 | -- | -- | -- | -- | -- | -- |
| Total household & pers. cash expense | \$ 2769 | \$ 1186 | \$ 2957 | \$ 3536 | \$ 3640 | \$ 2502 | \$ 2283 |
| Family living from the farm | 216 | 389 | 254 | 124 | 70 | 320 | 257 |
| Total cash exp. and perquisites | \$ 2985 | \$ 1575 | \$ 3211 | \$ 3660 | \$ 3710 | \$ 2822 | \$ 2540 |
| <u>Receipts</u> | | | | | | | |
| Return to capital and family labor | 2693 | 6763 | -1187 | 5635 | 5268 | 4432 | 3190 |
| Other personal income | 1272 | -- | 7000 | 83 | 146 | 65 | 950 |
| Total income | \$ 3965 | \$ 6763 | \$ 5813 | \$ 5718 | \$ 5414 | \$ 4497 | \$ 4140 |

* Hired help or others boarded

Table 5. Household and Personal Expenses for Those Farmers Who Kept Accounts of These Expenses, 1957
 (continued)

| Items | Farm Number | | | | | | |
|--|-------------|---------|---------|---------|---------|---------|---------|
| | 11 | 15 | 5 | 19 | 35 | 8 | 13 |
| Number of persons--family | 5.0 | 4.0 | 6.0 | 5.0 | 5.0 | 2.0 | 5.0 |
| Number of adult equivalent--family | 3.4 | 3.4 | 3.4 | 3.0 | 3.0 | 1.8 | 3.8 |
| other | -- | .8 | -- | -- | -- | .8 | -- |
| <u>Expenses</u> | | | | | | | |
| Food and meals bought | \$ 586 | \$ 1386 | \$ 745 | \$ 435 | \$ 666 | \$ 402 | \$ 1279 |
| Operating and supplies | 109 | 465 | 127 | 44 | 242 | 290 | 112 |
| Furnishings and equipment | 403 | 187 | 103 | 20 | 867 | 22 | 144 |
| Clothing and clothing materials | 281 | 353 | 186 | 274 | 202 | 22 | 273 |
| Personal care and spending | 65 | 218 | 69 | 19 | 74 | 5 | 68 |
| Education and recreation | 246 | 162 | 69 | 12 | 96 | 1 | 99 |
| Gifts and special events | 55 | 162 | 134 | 32 | 98 | 119 | 46 |
| Medical and hospital insurance | 311 | 1064 | 262 | 387 | 281 | 112 | 215 |
| Church and welfare | 21 | 134 | 45 | 167 | 26 | 50 | 1 |
| Personal share of auto expense | -- | 148 | 45 | 45 | 73 | 6 | 178 |
| Upkeep on dwelling | 55 | 653 | 209 | -- | 236 | 7 | 28 |
| Personal share tel. and elect. expense | 106 | 88 | 74 | 36 | 31 | 39 | 107 |
| Total cash living expense | \$ 2238 | \$ 5020 | \$ 2068 | \$ 1471 | \$ 2892 | \$ 1075 | \$ 2550 |
| Personal share of new autos | -- | -- | -- | 138 | 313 | -- | -- |
| New dwelling | -- | -- | -- | -- | -- | -- | -- |
| Taxes | 48 | 438 | 6 | 48 | 83 | -- | -- |
| Life insurance | 88 | 41 | 105 | -- | 385 | 283 | 50 |
| Other savings and investments | -- | 308 | -- | 200 | -- | -- | 36 |
| Total household & pers. cash expense | \$ 2374 | \$ 5807 | \$ 2179 | \$ 1857 | \$ 3673 | \$ 1358 | \$ 2636 |
| Family living from the farm | 103 | 198 | 218 | 80 | 307 | 150 | 340 |
| Total cash expenses and perquisites | \$ 2477 | \$ 6005 | \$ 2397 | \$ 1937 | \$ 3980 | \$ 1508 | \$ 2976 |
| <u>Receipts</u> | | | | | | | |
| Return to capital and family labor | 894 | 1254 | 2422 | 1793 | 1950 | 1449 | 1142 |
| Other personal income | 3213 | 2684 | 1307 | 1063 | 20 | -- | 6 |
| Total income | \$ 4107 | \$ 3938 | \$ 3729 | \$ 2856 | \$ 1970 | \$ 1449 | \$ 1148 |

Table 6. Net Worth Statement for Those Farmers Who Kept a Record of All Assets and Liabilities (Operator's Share) 1957

| Items | Average | Farm Number | | | | | | |
|---------------------------|---------|-------------|---------|---------|---------|---------|---------|---------|
| | | 1 | 2 | 9 | 3 | 6 | 5 | 34 |
| Total acres in farm | 228 | 240 | 205 | 240 | 160 | 144 | 150 | 200 |
| Farm Capital | \$20223 | \$26534 | \$18350 | \$17511 | \$21727 | \$15369 | \$ 7557 | \$22836 |
| Cash on hand | 294 | 148 | 99 | 750 | 124 | -- | -- | -- |
| Stocks, bonds & life ins. | 388 | 1209 | 695 | 38 | -- | 600 | 302 | -- |
| Household goods & cloth. | 1857 | 2800 | * | 1500 | 2500 | 3100 | 1100 | 2500 |
| Pers. share of auto | 193 | 470 | 200 | 96 | 76 | 445 | 100 | -- |
| Farm dwelling | 1484 | 3550 | 1750 | 2203 | ** | 4950 | 1031 | 2740 |
| Other non-farm assets | 1062 | 1895 | 1473 | 125 | 5 | -- | -- | -- |
| Total non-farm assets | \$ 5278 | \$10072 | \$ 4217 | \$ 4712 | \$ 2705 | \$ 9095 | \$ 2533 | \$ 5240 |
| Total assets | 25501 | 36606 | 22567 | 22223 | 24432 | 24464 | 10090 | 28076 |
| Real estate mortgages | 4410 | 6000 | 2804 | -- | -- | 5600 | -- | 6570 |
| Chattel mortgages | 2634 | 636 | 610 | -- | -- | 2100 | -- | 1900 |
| Notes payable | 980 | 2160 | 2280 | -- | 1422 | -- | -- | -- |
| Accounts payable | 358 | 474 | 411 | 651 | 24 | -- | 489 | -- |
| Total liabilities | \$ 8382 | \$ 9270 | \$ 6105 | \$ 651 | \$ 1446 | \$ 7700 | \$ 489 | \$ 8470 |
| Net worth | \$17119 | \$27336 | \$16462 | \$21572 | \$22986 | \$16764 | \$ 9601 | \$19606 |
| January 1 | | | | | | | | |
| Farm Capital | \$20790 | \$27262 | \$21788 | \$20036 | \$23218 | \$14595 | \$ 7692 | \$26012 |
| Cash on hand | 330 | 690 | 95 | 780 | 281 | -- | 449 | -- |
| Stocks, bonds & life ins. | 451 | 1396 | 708 | 477 | -- | 613 | -- | -- |
| Household goods & cloth. | 2039 | 2890 | * | 2000 | 2500 | 3100 | 1150 | 2500 |
| Pers. share of auto | 214 | 390 | 150 | 44 | 65 | 494 | 90 | -- |
| Farm dwelling | 1593 | 3450 | 2112 | 3176 | ** | 4850 | 1220 | 2520 |
| Other non-farm assets | 1130 | 2047 | 1553 | 125 | 5 | -- | -- | -- |
| Total non-farm assets | \$ 5757 | \$10863 | \$ 4618 | \$ 6602 | \$ 2851 | \$ 9057 | \$ 2909 | \$ 5020 |
| Total assets | \$26547 | 38125 | 26406 | 26638 | 26069 | 23652 | 10601 | 31032 |
| Real estate mortgages | 4242 | 6000 | 2265 | -- | -- | 5100 | -- | 6266 |
| Chattel mortgages | 2067 | -- | 4690 | -- | -- | 1700 | -- | 2400 |
| Notes payable | 1514 | 1761 | 650 | 750 | 2354 | -- | -- | -- |
| Accounts payable | 401 | 176 | 219 | 665 | 24 | -- | 398 | 1722 |
| Total liabilities | \$ 8224 | \$ 7937 | \$ 7824 | \$ 1415 | \$ 2378 | \$ 6800 | \$ 398 | \$10388 |
| Net Worth | 18323 | 30188 | 18582 | 25223 | 23691 | 16852 | 10203 | 20644 |
| Change in Net Worth | 1204 | +2852 | +2120 | +3651 | +705 | +88 | +602 | +1038 |

* Information not reported

** Depreciated in full

Table 6. Net Worth Statement for Those Farmers Who Kept a Record
of All Assets and Liabilities (Operator's Share) 1957 (continued)

| Items | Farm Number | | | | | | | |
|------------------------------|-------------|---------|---------|---------|-------------|---------|---------|---------|
| | 10 | 30 | 11 | 35 | 8 | 15 | 13 | 18 |
| Total acres in farm | 340 | 80 | 120 | 240 | 265 | 400 | 390 | 240 |
| Farm Capital | | | | | January 1 | | | |
| Cash on hand | \$17865 | \$10203 | \$ 8674 | \$28968 | \$19438 | \$27608 | \$28205 | \$32495 |
| Stocks, bonds and life ins. | 600 | 600 | 600 | -- | 100 | 301 | 585 | 200 |
| Household goods and clothing | 75 | -- | 185 | 505 | 400 | 441 | 986 | 700 |
| Personal share of auto | 2000 | 2050 | 700 | 1500 | 2050 | 2800 | 1250 | 2000 |
| Farm dwelling | -- | 68 | 404 | 48 | 275 | 325 | 195 | 192 |
| Other non-farm assets | 360 | -- | 2870 | * | ** | * | 2801 | * |
| Total non-farm assets | 495 | -- | 915 | -- | 23 | 287 | 210 | 10495 |
| Total assets | \$ 3530 | \$ 2718 | \$ 5674 | \$ 2053 | \$ 2848 | \$ 4154 | \$ 6027 | \$13587 |
| Real estate mortgages | 21395 | 12921 | 14348 | 31021 | 22286 | 31762 | 34232 | 46082 |
| Chattel mortgages | 2440 | 3185 | 4500 | 4000 | 1990 | 21852 | 4700 | 2500 |
| Notes payable | 3200 | -- | 1272 | 2995 | 660 | 2821 | 7430 | 15900 |
| Accounts payable | 225 | 1268 | 500 | 926 | -- | 2870 | 2500 | 550 |
| Total liabilities | 222 | 54 | -- | 1545 | 188 | -- | 529 | 780 |
| Net Worth | \$ 6087 | \$ 4507 | \$ 6272 | \$ 9466 | \$ 2838 | \$27543 | \$15159 | \$19730 |
| Farm Capital | | | | | December 31 | | | |
| Cash on hand | \$19780 | \$ 9215 | \$ 9840 | \$31716 | \$18192 | \$26036 | \$27431 | \$29042 |
| Stocks, bonds and life ins. | 200 | 345 | 210 | -- | 1550 | 73 | 78 | 200 |
| Household goods & clothing | 75 | -- | 144 | 560 | 450 | 441 | 1060 | 850 |
| Personal share of auto | 2500 | 2050 | 700 | 2300 | 2050 | 3500 | 1350 | 2000 |
| Farm dwelling | 59 | 25 | 649 | 297 | 220 | 255 | 350 | 120 |
| Other non-farm assets | 300 | 750 | 2790 | * | ** | * | 2728 | * |
| Total non-farm assets | 445 | -- | 915 | -- | 23 | 529 | 210 | 11095 |
| Total assets | \$ 3579 | \$ 3170 | \$ 5408 | \$ 3157 | \$ 4293 | \$ 4798 | \$ 5776 | \$14265 |
| Real estate mortgages | 23359 | 12385 | 15248 | 34873 | 22485 | 30834 | 33207 | 43307 |
| Chattel mortgages | 2320 | 2915 | 4500 | 3750 | 1659 | 22636 | 4420 | 1800 |
| Notes payable | 2100 | -- | 920 | -- | 60 | 2523 | 8105 | 8500 |
| Accounts payable | 225 | 1158 | 802 | 9250 | -- | 2447 | 2760 | 550 |
| Total liabilities | 536 | 21 | 272 | 976 | -- | -- | 505 | 500 |
| Net Worth | \$ 5181 | \$ 4094 | \$ 6494 | \$13976 | \$ 1719 | \$27606 | \$15790 | \$11350 |
| Change in net worth | +2870 | -123 | +678 | -658 | +1318 | -991 | -1656 | +5605 |

* Information not reported

**Fully depreciated

Table 7. Family Living from the Farm, 1957

| Items | Ave. of 17 farms | Farm Number | | | | | | | |
|----------------------------------|---------------------|-------------|-------|-------|-------|-------|-------|-------|-------|
| | | 31 | 1 | 2 | 9 | 3 | 6 | 19 | 5 |
| No. of adult equivalents: | | | | | | | | | |
| Family | 3.7 | 2.1 | 4.9 | 4.7 | 5.1 | 4.4 | 3.1 | 3.0 | 3.4 |
| Other* | .1 | -- | -- | -- | .2 | -- | -- | -- | -- |
| Whole milk | qts. | 1699 | -- | 3600 | 1825 | 850 | 2197 | 1049 | 1116 |
| Cream | pts. | 15 | -- | 110 | -- | -- | -- | -- | -- |
| Cattle | lbs. | 386 | -- | 972 | -- | ** | 592 | -- | 300 |
| Hogs | lbs. | 12 | -- | -- | -- | -- | -- | -- | -- |
| Poultry | lbs. | 24 | 122 | -- | -- | -- | -- | -- | 128 |
| Eggs | doz. | 8 | -- | -- | -- | -- | -- | -- | -- |
| Total value | | \$213 | \$ 23 | \$389 | \$124 | \$ 70 | \$320 | \$ 73 | \$ 80 |
| | | | | | | | | | \$218 |

| Items | | Farm Number | | | | | | | |
|----------------------------------|------|-------------|-------|-------|-------|-------|-------|-------|-------|
| | | 34 | 10 | 30 | 11 | 35 | 8 | 15 | 13 |
| No. of adult equivalents: | | | | | | | | | |
| Family | 6.5 | 5.0 | 2.2 | 3.4 | 3.0 | 1.8 | 3.4 | 3.8 | 3.9 |
| Other* | -- | -- | -- | -- | -- | .8 | .8 | -- | .1 |
| Whole milk | qts. | 2880 | 2200 | 730 | 1460 | 3320 | 720 | 1847 | 2190 |
| Cream | pts. | 100 | -- | -- | -- | -- | -- | 52 | -- |
| Cattle | lbs. | -- | 1500 | 2100 | -- | -- | -- | ** | ** |
| Hogs | lbs. | -- | -- | -- | -- | -- | 200 | -- | -- |
| Poultry | lbs. | -- | -- | 112 | 40 | -- | -- | -- | -- |
| Eggs | doz. | -- | -- | 104 | 30 | -- | -- | -- | -- |
| Total value | | \$335 | \$257 | \$373 | \$103 | \$307 | \$150 | \$198 | \$340 |
| | | | | | | | | | \$254 |

* Hired help or others boarded

** Information not reported

Table 8. Returns to Capital and Family Labor (Operator's Share) 1957*

| Items | Ave. of 17 farms | Farm Number | | | | | | | |
|----------------------------------|---------------------|-------------|---------|---------|---------|---------|---------|---------|---------|
| | | 31 | 1 | 2 | 9 | 3 | 34 | 10 | 6 |
| <u>Farm Income</u> | | | | | | | | | |
| 1. Total farm sales | \$11745 | \$38342 | \$13625 | \$11090 | \$12495 | \$ 8348 | \$12241 | \$ 9370 | \$ 6032 |
| 2. Increase in capital | 806 | -- | 728 | 3438 | 2525 | 1491 | 3177 | 1915 | -- |
| 3. Family living from farm | 213 | 23 | 389 | 124 | 70 | 320 | 335 | 257 | 74 |
| 4. Total farm receipts | \$12764 | \$38365 | \$14742 | \$14652 | \$15090 | \$10159 | \$15753 | \$11442 | \$ 6106 |
| <u>Farm Expenses</u> | | | | | | | | | |
| 5. Total farm purchases | \$ 9775 | \$28308 | \$ 7979 | \$ 9017 | \$ 9822 | \$ 5727 | \$11958 | \$ 8252 | \$ 2882 |
| 6. Decrease in capital | -- | 2850 | -- | -- | -- | -- | -- | -- | 775 |
| 7. Board furnished hired labor | 32 | -- | -- | -- | -- | -- | -- | -- | -- |
| 8. Total farm expenses | \$ 9807 | \$31158 | \$ 7979 | \$ 9017 | \$ 9822 | \$ 5727 | \$11958 | \$ 8252 | \$ 3657 |
| 9. Return to cap. & family labor | \$ 2957 | \$ 7207 | \$ 6763 | \$ 5635 | \$ 5268 | \$ 4432 | \$ 3795 | \$ 3190 | \$ 2449 |

| Items | Farm Number | | | | | | | | |
|----------------------------------|-------------|---------|---------|---------|---------|---------|---------|---------|----------|
| | 5 | 35 | 30 | 19 | 8 | 15 | 13 | 11 | 18 |
| <u>Farm Income</u> | | | | | | | | | |
| 1. Total farm sales | \$ 3122 | \$12991 | \$ 5931 | \$14746 | \$ 5321 | \$14877 | \$ 9844 | \$ 5748 | \$15655 |
| 2. Increase in capital | 1076 | 2748 | -- | 7093 | -- | -- | -- | 1165 | -- |
| 3. Family living from farm | 218 | 307 | 373 | 80 | 150 | 198 | 340 | 103 | 254 |
| 4. Total farm receipts | \$ 4416 | \$16046 | \$ 6304 | \$21919 | \$ 5471 | \$15075 | \$10184 | \$ 7016 | \$15909 |
| <u>Farm Expenses</u> | | | | | | | | | |
| 5. Total farm purchases | \$ 1994 | \$14056 | \$ 3511 | \$20126 | \$ 2700 | \$11869 | \$ 8268 | \$ 6122 | \$13599 |
| 6. Decrease in capital | -- | -- | 988 | -- | 1246 | 1572 | 774 | -- | 3453 |
| 7. Board furnished hired labor | -- | 40 | -- | -- | 76 | 380 | -- | -- | 44 |
| 8. Total farm expenses | \$ 1994 | \$14096 | \$ 4499 | \$20126 | \$ 4022 | \$13821 | \$ 9042 | \$ 6122 | \$17096 |
| 9. Return to cap. & family labor | \$ 2422 | \$ 1950 | \$ 1805 | \$ 1793 | \$ 1449 | \$ 1254 | \$ 1142 | \$ 894 | \$ -1187 |

* All farms are owner-operated with the exception of number 5 who is a cash renter and number 31 who keeps turkeys on a share basis.

Table 9. Measures of Farm Organization and Management Efficiency, 1957

| | Ave. of 17 farms | 31 | 1 | 2 | 9 | 3 | 6 | 19 | 5 |
|--|---------------------|----------|---------|---------|---------|---------|---------|---------|---------|
| | Farm Number | | | | | | | | |
| Labor earnings | \$ 1836 | \$ 11186 | \$ 4907 | \$ 4134 | \$ 3519 | \$ 2670 | \$ 1720 | \$ 1409 | \$ 1376 |
| Crop yields* | 100 | 120 | 130 | 121 | 108 | 146 | 95 | 79 | 63 |
| Percent tillable in high return crops** | 32.7 | 0 | 33.5 | 44.9 | 36.0 | 38.4 | 31.1 | 17.2 | 45.2 |
| Return for \$100 feed to prod. livestock*** | 100 | 95 | 126 | 102 | 118 | 123 | 93 | 106 | 93 |
| Productive livestock units per 100 acres**** | 40.0 | 95.1 | 36.4 | 19.0 | 46.1 | 28.2 | 33.0 | 43.5 | 18.8 |
| Size of business--work units | 333 | 357 | 369 | 365 | 391 | 258 | 279 | 279 | 201 |
| Work units per worker | 234 | 238 | 246 | 261 | 261 | 172 | 233 | 279 | 201 |
| Power, mach., equip., & bldg. expense per work unit | \$ 8.25 | \$ 9.85 | \$ 8.64 | \$ 8.53 | \$ 5.94 | \$ 9.27 | \$ 7.29 | \$ 7.37 | \$ 3.72 |
| <hr/> | | | | | | | | | |
| Items related to some of above measures: | | | | | | | | | |
| Index of return for \$100 feed from: | | | | | | | | | |
| Dairy cattle (see pp. 24-27) | 100 | -- | 126 | 102 | 119 | 123 | 93 | 100 | 93 |
| Number of animal units | 38.4 | 85.6 | 40.2 | 29.4 | 33.2 | 29.3 | 27.4 | 71.7 | 20.7 |
| Work units on crops | 46 | 38 | 53 | 64 | 19 | 41 | 47 | 18 | 40 |
| Work units on prod. livestock | 262 | 311 | 316 | 265 | 234 | 217 | 232 | 247 | 161 |
| Other work units | 25 | 8 | 0 | 36 | 138 | 0 | 0 | 14 | 0 |
| Number of family workers | 1.3 | 1.0 | 1.5 | 1.4 | 1.5 | 1.5 | 1.2 | 1.0 | 1.0 |
| Number of hired workers | .1 | .5 | -- | -- | -- | -- | -- | -- | -- |
| Total number of workers | 1.4 | 1.5 | 1.5 | 1.4 | 1.5 | 1.5 | 1.2 | 1.0 | 1.0 |
| Power expense per work unit | \$ 4.83 | \$ 5.31 | \$ 4.74 | \$ 4.40 | \$ 3.96 | \$ 5.52 | \$ 5.46 | \$ 4.07 | \$ 2.52 |
| Crop mach. exp. per work unit | 1.69 | 2.82 | 1.90 | 1.78 | 1.07 | 1.53 | 1.46 | 1.55 | .62 |
| Livestock equip. exp. per w.u. | .51 | .27 | .75 | .53 | .37 | .92 | .08 | .12 | .16 |
| Bldgs. & fencing exp. per w.u. | 1.22 | 1.45 | 1.25 | 1.82 | .54 | 1.30 | .29 | 1.63 | .42 |

* Given as a percentage

** Crops are marked in Table 11 as (A), (B), (C) and (D). All of acres in (A) crops, one-half of acres in (B) crops and one-fourth of acres in (C) crops are used in calculating percent of tillable land in high return crops.

Table 9. Measures of Farm Organization and Management Efficiency, 1957 (continued)

| Items | Farm Number | | | | | | | | |
|---|-------------|--------|--------|---------|--------|--------|---------|----------|----------|
| | 34 | 10 | 30 | 11 | 35 | 8 | 15 | 13 | 18 |
| Labor earnings | \$ 977 | \$ 903 | \$ 779 | \$ 655 | \$ 562 | \$ 533 | \$ 203 | \$ -1111 | \$ -3197 |
| Crop yields* | 65 | 148 | 88 | 87 | 76 | 96 | 80 | 107 | 90 |
| Percent tillable in high return crops** | 39.8 | 63.9 | 35.9 | 36.4 | 34.3 | 18.0 | 35.2 | 16.3 | 29.6 |
| Return for \$100 feed to productive livestock*** | 126 | 87 | 104 | 97 | 99 | 65 | 112 | 84 | 76 |
| Productive livestock units per 100 acres**** | 34.8 | 62.0 | 58.6 | 42.6 | 38.4 | 15.4 | 31.7 | 26.7 | 49.6 |
| Size of business-work units | 430 | 292 | 241 | 198 | 465 | 269 | 410 | 412 | 455 |
| Work units per worker | 187 | 154 | 185 | 198 | 332 | 245 | 241 | 229 | 325 |
| Power, mach., equip., & bldg. expense per work unit | \$5.13 | \$9.39 | \$7.55 | \$10.18 | \$9.92 | \$6.68 | \$10.30 | \$8.58 | \$11.89 |
| Items related to some of above measures: | | | | | | | | | |
| Index of return for \$100 feed from dairy cattle (see pp. 20-23) | 136 | 87 | 97 | 95 | 99 | 61 | 112 | 84 | 76 |
| Number of animal units | 32.7 | 31.8 | 25.2 | 20.0 | 44.2 | 24.4 | 39.6 | 47.5 | 50.6 |
| Work units on crops | 58 | 47 | 11 | 19 | 80 | 57 | 74 | 48 | 73 |
| Work units on prod. livestock | 269 | 245 | 208 | 164 | 350 | 172 | 325 | 355 | 382 |
| Other work units | 103 | 0 | 22 | 15 | 35 | 40 | 11 | 9 | 0 |
| Number of family workers | 2.3 | 1.9 | 1.3 | 1.0 | 1.3 | 1.0 | .9 | 1.8 | 1.3 |
| Number of hired workers | -- | -- | -- | -- | .1 | .1 | .8 | -- | .1 |
| Total number of workers | 2.3 | 1.9 | 1.3 | 1.0 | 1.4 | 1.1 | 1.7 | 1.8 | 1.4 |
| Power expense per work unit | \$1.79 | \$4.11 | \$4.21 | \$6.72 | \$5.15 | \$4.71 | \$6.68 | \$5.35 | \$7.42 |
| Crop mach. exp. per work unit | .74 | 2.80 | 1.27 | 2.30 | 2.77 | 1.09 | 1.48 | 1.54 | 2.04 |
| Livestock equip. exp. per w.u. | .28 | .88 | .78 | .30 | .63 | .15 | 1.09 | .21 | 1.08 |
| Bldgs. & fencing exp. per w.u. | 2.32 | 1.60 | 1.29 | .86 | 1.37 | .73 | 1.05 | 1.48 | 1.35 |

*** An index weighted by the animal units of livestock.

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

Table 10. Distribution of Acres in Farm, 1957

| Crop | Crop Rating | Ave. of 17 farms | Farm Number | | | | | | | |
|---|-------------|------------------|-------------|------|------|------|------|------|------|------|
| | | | 31 | 1 | 2 | 9 | 3 | 6 | 19 | 5 |
| Oats | C | 4.1 | -- | 29 | 10 | -- | 8 | 19 | 3 | -- |
| Other small grain & peas | | 1.2 | 11 | -- | 10 | -- | -- | -- | -- | -- |
| Total small grains & peas | | 5.3 | 11 | 29 | 20 | -- | 8 | 19 | 3 | -- |
| Corn silage | C | 4.5 | -- | -- | -- | -- | 8 | 11 | -- | -- |
| Total cultivated crops | | 4.5 | -- | -- | -- | -- | 8 | 11 | -- | -- |
| Alfalfa & alfalfa mix hay | A | 7.4 | -- | -- | -- | 21 | -- | -- | 6 | 20 |
| Other legume & leg. mix hay | B | 25.5 | -- | 49 | 70 | -- | 23 | 23 | -- | -- |
| Timothy and brome hay | D | 6.6 | 50 | -- | -- | -- | -- | -- | -- | 30 |
| Other hay | D | 3.2 | -- | -- | -- | -- | -- | -- | 20 | -- |
| Alfalfa seed | A | .5 | -- | -- | 8 | -- | -- | -- | -- | -- |
| Oat and oat mix silage | C | 6.2 | -- | 4 | -- | -- | 4 | -- | -- | 6 |
| Total till. land in hay | | 49.4 | 50 | 53 | 78 | 21 | 27 | 23 | 26 | 56 |
| Alfalfa & alfalfa mix. pasture | A | .4 | -- | -- | -- | -- | -- | -- | -- | 7 |
| Other legume & leg.mix. pasture | C | 2.7 | -- | 18 | -- | 5 | -- | -- | -- | -- |
| Other pasture | D | 10.3 | 22 | 11 | -- | 4 | -- | 8 | 10 | -- |
| Total till. land in pasture | | 13.4 | 22 | 29 | -- | 9 | -- | 8 | 10 | 7 |
| Tillable land not cropped | D | 8.1 | 7 | -- | -- | 32 | -- | -- | -- | -- |
| Total tillable land | | 80.7 | 90 | 111 | 98 | 62 | 43 | 61 | 39 | 63 |
| Phalaris hay | | .8 | -- | -- | -- | -- | -- | 2 | 1 | -- |
| Wild hay | | 2.2 | -- | -- | -- | -- | 8 | -- | -- | -- |
| Non-tillable pasture | | 23.8 | -- | -- | 57 | 10 | 53 | 20 | 125 | 47 |
| Timber not pastured and roads and waste | | 145.1 | 20 | 125 | 47 | 166 | 53 | 58 | 823 | 36 |
| Farmstead | | 4.4 | 10 | 4 | 3 | 2 | 3 | 3 | 5 | 4 |
| Total acres in farm | | 257.0 | 120 | 240 | 205 | 240 | 160 | 144 | 993 | 150 |
| Percent land tillable | | 38.8 | 75.0 | 46.0 | 47.8 | 25.8 | 26.9 | 42.4 | 4.0 | 42.0 |
| Percent tillable land in high return crops | | 32.7 | 0 | 33.5 | 44.9 | 36.0 | 38.4 | 31.1 | 17.2 | 45.2 |

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

Table 10. Distribution of Acres in Farm, 1957 (continued)

| Crop | Crop Rating | Farm Number | | | | | | | | |
|--|-------------|-------------|------|------|------|------|------|------|------|------|
| | | 34 | 10 | 30 | 11 | 35 | 8 | 15 | 13 | 18 |
| Oats | C | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Other small grain and peas | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total small grain & peas | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Corn silage | C | 10 | 6 | -- | -- | 22 | -- | -- | -- | 20 |
| Total cultivated crops | | 10 | 6 | -- | -- | 22 | -- | -- | -- | 20 |
| Alfalfa & alfalfa mix hay | A | -- | 41 | -- | 2 | 15 | 21 | -- | -- | -- |
| Other legume & leg. mix hay | B | 70 | -- | 17 | 28 | 26 | -- | 70 | 45 | 12 |
| Timothy and brome hay | D | -- | -- | -- | -- | 12 | 21 | -- | -- | -- |
| Other hay | D | -- | -- | -- | -- | -- | -- | -- | 35 | -- |
| Alfalfa seed | A | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oat and oat mix silage | C | -- | -- | 12 | -- | -- | 8 | 36 | -- | 35 |
| Total till. land in hay | | 70 | 41 | 29 | 30 | 53 | 50 | 106 | 80 | 47 |
| Alfalfa & alfalfa mix. past. | A | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Other legume & leg. mix past. | C | -- | 14 | -- | -- | 10 | -- | -- | -- | -- |
| Other pasture | D | 14 | -- | 3 | 6 | 10 | 25 | 19 | 43 | -- |
| Total till. land in pasture | | 14 | 14 | 3 | 6 | 20 | 25 | 19 | 43 | -- |
| Tillable land not cropped | D | -- | 11 | -- | 8 | 10 | 53 | -- | 15 | -- |
| Total tillable land | | 94 | 72 | 32 | 44 | 105 | 128 | 125 | 138 | 67 |
| Phalaris hay | | -- | -- | -- | -- | 10 | -- | -- | -- | -- |
| Wild hay | | -- | -- | -- | -- | -- | 30 | -- | -- | -- |
| Non-tillable pasture | | -- | 4 | 11 | 3 | -- | -- | -- | 40 | 35 |
| Timber not pastured and roads and waste | | 100 | 99 | 37 | 71 | 115 | 107 | 272 | 202 | 134 |
| Farmstead | | 6 | 5 | -- | 2 | 10 | -- | 3 | 10 | 4 |
| Total acres in farm | | 200 | 180 | 80 | 120 | 240 | 265 | 400 | 390 | 240 |
| Percent land tillable | | 47.0 | 40.0 | 40.0 | 36.7 | 43.8 | 48.3 | 31.3 | 35.4 | 27.9 |
| Percent tillable land in high return crops | | 39.8 | 63.9 | 35.9 | 36.4 | 34.3 | 18.0 | 35.2 | 16.3 | 29.6 |

Table 11. Crop Yields per Acre, 1957*

| Crop | | Ave. of farms raising each crop | Farm Number | | | | | | | |
|-----------------------------|------|---------------------------------------|-------------|------|------|-----|------|------|------|------|
| | | | 31 | 1 | 2 | 9 | 3 | 6 | 19 | 5 |
| Oats and barley | bu. | -- | -- | -- | 58.0 | -- | -- | -- | -- | -- |
| Oats | bu. | 40.0 | -- | 40.5 | 30.0 | -- | 50.0 | 40.0 | 39.7 | -- |
| Rye | bu. | -- | 22.7 | -- | -- | -- | -- | -- | -- | -- |
| Alfalfa seed | lbs. | -- | -- | -- | 75 | -- | -- | -- | -- | -- |
| Oat and oat mix silage | tons | 5.2 | -- | 10.0 | -- | -- | 6.0 | -- | -- | 2.0 |
| Corn silage | tons | 6.4 | -- | -- | -- | -- | 7.3 | 5.9 | -- | 10.5 |
| Alfalfa hay & alf. mix hay | tons | -- | -- | -- | -- | 2.7 | -- | -- | 3.0 | 2.1 |
| Other legume & leg. mix hay | tons | 2.3 | -- | 3.0 | 3.1 | -- | 3.8 | 1.8 | -- | -- |
| Timothy and brome hay | tons | 2.3 | 2.9 | -- | -- | -- | -- | -- | -- | 1.3 |
| Wild hay | tons | 0 | -- | -- | -- | -- | 0 | -- | -- | -- |
| Phalaris hay | tons | 1.5 | -- | -- | -- | -- | -- | 0 | 2.0 | -- |
| Other hay | tons | 1.8 | -- | -- | -- | -- | -- | -- | 1.7 | -- |

| Crop | | Farm Number | | | | | | | | |
|-----------------------------|------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 34 | 10 | 30 | 11 | 35 | 8 | 15 | 13 | 18 |
| Oats and barley | bu. | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oats | bu. | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Rye | bu. | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Alfalfa seed | lbs. | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oat and oat mix silage | tons | -- | -- | 5.8 | -- | -- | 4.4 | 3.3 | -- | 5.0 |
| Corn silage | tons | 10.5 | 4.0 | -- | -- | 4.9 | -- | -- | -- | 6.0 |
| Alfalfa hay & alf. mix hay | tons | -- | 4.1 | -- | 1.7 | 1.7 | 2.4 | -- | -- | -- |
| Other legume & leg. mix hay | tons | 1.2 | -- | 1.6 | 2.1 | 1.6 | -- | 2.1 | 2.9 | 1.7 |
| Timothy and brome hay | tons | -- | -- | -- | -- | 2.4 | 2.4 | -- | -- | -- |
| Wild hay | tons | -- | -- | -- | -- | -- | 0 | -- | -- | -- |
| Phalaris hay | tons | -- | -- | -- | -- | 2.4 | -- | -- | -- | -- |
| Other hay | tons | -- | -- | -- | -- | -- | -- | -- | 1.9 | -- |

* Farm number 31 harvested 1.4 ton of hay per acre from 22 acres of "other tillable pasture" and farm number 10 harvested .9 ton of hay per acre from 14 acres of "other legume and legume mix" pasture.

Table 12. Power and Machinery Expenses per Crop Acre, 1957

| Items | Ave. of 17 farms | Farm Number | | | | | | | |
|---|---------------------|-------------|---------|---------|---------|---------|---------|---------|---------|
| | | 31 | 1 | 2 | 9 | 3 | 6 | 19 | 5 |
| Crop acres per farm | 62 | 61 | 82 | 98 | 21 | 51 | 55 | 30 | 56 |
| Tractor and horse expense per crop acre | \$10.56 | \$13.18 | \$ 7.99 | \$ 7.15 | \$25.71 | \$ 9.83 | \$13.20 | \$19.48 | \$ 3.44 |
| Crop and general machinery per crop acre | \$10.40 | \$16.52 | \$ 8.57 | \$ 6.63 | \$19.88 | \$ 7.72 | \$ 7.39 | \$14.49 | \$ 2.22 |

| Items | 34 | 10 | 30 | 11 | 35 | 8 | 15 | 13 | 18 |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Crop acres per farm | 80 | 47 | 29 | 30 | 85 | 80 | 106 | 80 | 67 |
| Tractor and horse expense per crop acre | \$-0.53 | \$ 5.50 | \$15.32 | \$12.09 | \$10.60 | \$ 8.78 | \$ 5.91 | \$10.30 | \$11.59 |
| Crop and general machinery per crop acre | \$ 3.98 | \$17.38 | \$10.59 | \$15.19 | \$15.14 | \$ 3.58 | \$ 5.74 | \$ 7.91 | \$13.82 |

Table 13. Factors of Cost and Returns from Dairy Cows, 1957

| Items | Ave. of 16 farms | Farm Number | | | | | | | |
|--------------------------------|---------------------|-------------|---------|---------|---------|---------|---------|---------|----------|
| | | 35 | 34 | 3 | 11 | 15 | 9 | 1 | 18 |
| Pounds of butterfat per cow | 339 | 478 | 410 | 390 | 387 | 382 | 381 | 356 | 349 |
| Average test of milk (percent) | 4.0 | 5.3 | 4.7 | 3.5 | 3.5 | 3.7 | 4.0 | 3.5 | 3.6 |
| Price per lb. BF sold (cents) | 100.4 | 88.5 | 101.9 | 109.3 | 85.9 | 119.7 | 111.7 | 113.2 | 119.3 |
| Feed per cow, lbs: | | | | | | | | | |
| Corn | 125 | -- | 249 | -- | -- | -- | 213 | -- | -- |
| Small grain | 596 | -- | 238 | 638 | -- | -- | 3673 | 1094 | -- |
| Commercial feeds | 1803 | 3854 | 2747 | 1372 | 2826 | 2902 | -- | 1214 | 5270 |
| Legume hay | 2982 | 2392 | 3564 | 5000 | 4242 | 6294 | 7128 | 2751 | -- |
| Other hay | 2817 | 1329 | 3960 | -- | -- | -- | -- | 2751 | 7936 |
| Total concentrates | 2524 | 3854 | 3234 | 2010 | 2826 | 2902 | 3886 | 2308 | 5270 |
| Total hay | 5799 | 3721 | 7524 | 5000 | 4242 | 6294 | 7128 | 5502 | 7936 |
| Silage | 10005 | 13156 | 6634 | 14886 | 10606 | 13986 | 4681 | 4164 | 7809 |
| Feed cost per cow: | | | | | | | | | |
| Concentrates | \$67.01 | \$109.54 | \$77.47 | \$54.98 | \$79.40 | \$75.98 | \$91.19 | \$69.59 | \$122.29 |
| Roughages | 73.23 | 67.37 | 54.95 | 82.16 | 63.64 | 89.16 | 67.50 | 55.82 | 92.48 |
| Pasture | 4.78 | 6.27 | 4.39 | 5.82 | 6.63 | .54 | 5.05 | 6.37 | .74 |
| Total feed cost | 145.02 | 183.18 | 136.81 | 142.96 | 149.67 | 165.68 | 163.74 | 131.78 | 215.51 |
| Value of produce per cow: | | | | | | | | | |
| Dairy product sales | 327.11 | 397.13 | 393.02 | 414.35 | 312.10 | 448.28 | 411.43 | 385.33 | 409.61 |
| Used in home | 6.90 | 10.20 | 16.58 | 12.48 | 6.86 | 4.13 | 3.21 | 9.39 | 4.57 |
| Fed | 6.66 | 12.02 | 5.85 | .99 | 12.92 | 2.08 | 7.52 | 3.38 | 2.09 |
| Net inc. in value of cows | -14.72 | -16.44 | -39.07 | -2.03 | -.30 | -43.73 | -11.49 | -10.82 | -29.45 |
| Total value produced | 325.95 | 402.91 | 376.38 | 425.79 | 331.58 | 410.76 | 410.67 | 387.28 | 386.82 |
| Ret. above feed cost per cow: | 180.93 | 219.73 | 239.57 | 282.83 | 181.91 | 245.08 | 246.93 | 255.50 | 171.31 |
| Returns for \$100 of feed | \$230 | \$220 | \$275 | \$298 | \$222 | \$248 | \$252 | \$294 | \$179 |
| Feed cost per lb. BF (cents) | 43.1 | 38.4 | 33.4 | 36.7 | 38.7 | 43.3 | 42.9 | 37.0 | 61.7 |
| Number of cows | 21.4 | 30.1 | 20.2 | 17.6 | 13.2 | 28.6 | 18.8 | 26.9 | 3.15 |

Table 13. Factors of Cost and Returns from Dairy Cows, 1957 (continued)

| Items | Farm Number | | | | | | | |
|--------------------------------|-------------|---------|---------|---------|---------|---------|---------|---------|
| | 2 | 10 | 13 | 6 | 30 | 8 | 5 | 19 |
| Pounds of butterfat per cow | 337 | 327 | 326 | 312 | 272 | 266 | 231 | 213 |
| Average test of milk (percent) | 3.8 | 3.4 | 4.6 | 4.7 | 4.3 | 3.7 | 4.2 | 4.0 |
| Price per lb. BF sold (cents) | 102.9 | 107.5 | 97.4 | 82.4 | 109.1 | 83.6 | 87.1 | 87.2 |
| Feeds per cow, lbs: | | | | | | | | |
| Corn | -- | 48 | -- | 747 | -- | 488 | -- | 251 |
| Small grain | 591 | -- | -- | 1120 | -- | 1616 | -- | 559 |
| Commercial feeds | 1470 | 2097 | 2040 | 855 | 1339 | 114 | 393 | 373 |
| Legume hay | -- | 3544 | -- | -- | 6015 | -- | 4889 | 1895 |
| Other hay | 6024 | 1942 | 5172 | 4095 | -- | 6857 | 2222 | 2789 |
| Total concentrates | 2061 | 2145 | 2040 | 2722 | 1339 | 2218 | 393 | 1183 |
| Total hay | 6024 | 5486 | 5172 | 4095 | 6015 | 6857 | 7111 | 4684 |
| Silage | 11245 | 20485 | 18621 | 8476 | 10977 | 7857 | 5037 | 1474 |
| Feed cost per cow: | | | | | | | | |
| Concentrates | \$64.67 | \$55.77 | \$53.19 | \$68.04 | \$51.55 | \$50.31 | \$12.65 | \$35.58 |
| Roughages | 78.91 | 107.91 | 94.65 | 56.14 | 78.04 | 75.00 | 68.44 | 39.50 |
| Pasture | 5.62 | 4.13 | .42 | 7.20 | 5.73 | 5.36 | 6.39 | 5.79 |
| Total feed cost | 149.20 | 167.81 | 148.26 | 131.38 | 135.32 | 130.67 | 87.48 | 80.87 |
| Value of produce per cow: | | | | | | | | |
| Dairy product sales | 332.70 | 339.12 | 287.02 | 247.08 | 287.85 | 206.88 | 191.08 | 170.87 |
| Used in home | 4.98 | 2.99 | 6.59 | 3.50 | 4.12 | 8.57 | 8.04 | 4.21 |
| Fed | 6.29 | 3.17 | 19.03 | 5.91 | 2.51 | 11.76 | 1.52 | 9.47 |
| Net inc. in value of cows | 9.14 | -9.24 | -4.61 | -11.26 | -8.52 | -57.33 | 4.79 | -5.13 |
| Total value produced | 353.11 | 336.04 | 308.03 | 245.23 | 285.96 | 169.88 | 205.43 | 179.42 |
| Ret. above feed cost per cow: | 203.91 | 168.23 | 159.77 | 113.85 | 150.64 | 39.21 | 117.95 | 98.55 |
| Returns for \$100 of feed | \$237 | \$200 | \$208 | \$187 | \$272 | \$130 | \$235 | \$222 |
| Feed cost per lb. BF (cents) | 44.3 | 51.3 | 45.5 | 42.1 | 49.8 | 49.2 | 37.9 | 38.0 |
| Number of cows | 24.9 | 20.6 | 29.0 | 21.0 | 13.3 | 14.0 | 13.5 | 19.0 |

Table 14. Feed Costs and Returns from Other Dairy Cattle, 1957

| Items | Ave. of 16 farms | Farm Number | | | | | | | |
|-----------------------------|---------------------|-------------|---------|---------|---------|---------|---------|---------|---------|
| | | 35 | 34 | 3 | 11 | 15 | 9 | 1 | 18 |
| Feed per head, lbs.: | | | | | | | | | |
| Concentrates | 242 | 170 | 281 | 332 | 120 | 432 | 131 | 384 | 1309 |
| Hay and fodder | 2489 | 886 | 2135 | 1802 | 2678 | 3182 | 2927 | 2566 | 2618 |
| Silage | 1819 | 3901 | 899 | 2146 | 5357 | -- | -- | -- | 1675 |
| Whole milk | 173 | 323 | 177 | 26 | 527 | 89 | 177 | 119 | 58 |
| Total feed costs per head | \$39.49 | \$42.41 | \$31.99 | \$40.71 | \$59.59 | \$43.99 | \$32.49 | \$44.07 | \$33.17 |
| Net increase in value | 62.56 | 58.01 | 104.49 | 67.62 | 74.13 | 83.02 | 78.13 | 81.97 | 23.69 |
| Return above feed cost | 23.07 | 15.60 | 72.50 | 26.91 | 14.54 | 39.03 | 45.64 | 37.90 | -9.48 |
| Return for \$100 of feed | \$161 | \$137 | \$327 | \$166 | \$124 | \$189 | \$240 | \$186 | \$71 |
| Number of head of cattle | 20.5 | 28.2 | 17.8 | 23.3 | 11.2 | 22.0 | 24.6 | 26.5 | 38.2 |

| Items | | Farm Number | | | | | | | |
|-----------------------------|--------|-------------|---------|---------|---------|---------|---------|---------|----|
| | | 2 | 10 | 13 | 6 | 30 | 8 | 5 | 19 |
| Feed per head, lbs.: | | | | | | | | | |
| Concentrates | 15 | 295 | 287 | 12 | 15 | 52 | 13 | 26 | |
| Hay and fodder | 644 | 2152 | 1572 | 2812 | 3504 | 4516 | 3406 | 2419 | |
| Silage | 444 | 8969 | 5420 | -- | -- | -- | 290 | -- | |
| Whole milk | 56 | 104 | 391 | 259 | 70 | 350 | 44 | -- | |
| Total feed costs per head | \$8.67 | \$61.50 | \$54.01 | \$33.10 | \$32.64 | \$50.70 | \$30.93 | \$31.87 | |
| Net increase in value | 9.11 | 91.45 | 52.82 | 82.73 | 60.66 | 63.10 | 29.16 | 40.79 | |
| Return above feed cost | .44 | 29.95 | -1.19 | 49.63 | 28.02 | 12.40 | -1.77 | 8.92 | |
| Return for \$100 of feed | \$105 | \$149 | \$98 | \$250 | \$186 | \$124 | \$94 | \$128 | |
| Number of head of cattle | 9.0 | 22.3 | 36.9 | 12.8 | 13.7 | 15.5 | 13.8 | 12.4 | |

Table 15. Feed Costs and Returns from All Dairy Cattle, 1957

| Items | Ave. of 16 farms | Farm Number | | | | | | | |
|---------------------------------------|---------------------|-------------|--------|--------|--------|--------|--------|--------|--------|
| | | 35 | 34 | 3 | 11 | 15 | 9 | 1 | 18 |
| Feeds per animal unit, lb.: | | | | | | | | | |
| Concentrates | 1821 | 2733 | 2417 | 648 | 2056 | 2336 | 2452 | 1798 | 4269 |
| Hay and fodder | 5698 | 3099 | 6529 | 5261 | 4574 | 6313 | 6624 | 5373 | 6917 |
| Silage | 8067 | 11447 | 5155 | 10648 | 10638 | 10101 | 2830 | 2786 | 6126 |
| Total feed cost per animal unit | \$120.96 | 143.62 | 110.48 | 117.65 | 131.51 | 142.59 | 120.15 | 114.96 | 157.88 |
| Value of prod. per animal unit | | | | | | | | | |
| Dairy products | \$225.72 | 277.39 | 284.33 | 256.39 | 223.95 | 326.75 | 250.65 | 264.13 | 257.84 |
| Net inc. in val. of cattle | 32.46 | 25.81 | 36.80 | 52.56 | 43.95 | 14.54 | 54.85 | 46.79 | -.45 |
| Total value produced | \$258.18 | 303.20 | 321.13 | 308.95 | 267.90 | 341.29 | 305.50 | 310.92 | 257.39 |
| Ret. above feed per an. unit | \$137.22 | 159.58 | 210.65 | 191.30 | 136.39 | 198.70 | 185.35 | 195.96 | 99.51 |
| Return per \$100 of feed | \$ 214 | \$ 211 | \$ 291 | \$ 263 | \$ 204 | \$ 239 | \$ 254 | \$ 270 | \$ 163 |
| Animal units of cattle | 31.7 | 44.2 | 29.1 | 29.3 | 18.8 | 39.6 | 31.1 | 40.2 | 50.6 |

| Items | | Farm Number | | | | | | | |
|---------------------------------------|----------|-------------|--------|--------|--------|--------|--------|--------|----|
| | | 2 | 10 | 13 | 6 | 30 | 8 | 5 | 19 |
| Feed per animal unit, lb.: | | | | | | | | | |
| Concentrates | 1792 | 1597 | 1459 | 2092 | 896 | 1428 | 268 | 898 | |
| Hay and fodder | 7075 | 5063 | 4379 | 4452 | 6368 | 7444 | 7010 | 4685 | |
| Silage | 10884 | 19560 | 15579 | 6496 | 7264 | 4933 | 3529 | 1102 | |
| Total feed cost per animal unit | \$147.57 | 149.77 | 120.86 | 111.63 | 110.12 | 109.89 | 77.82 | 68.96 | |
| Value of prod. per animal unit | | | | | | | | | |
| Dairy products | \$285.99 | 221.62 | 179.26 | 192.05 | 193.19 | 135.26 | 131.77 | 130.96 | |
| Net inc. in val. of cattle | 35.63 | 58.14 | 38.21 | 30.02 | 35.70 | 7.86 | 22.90 | 16.07 | |
| Total value produced | \$321.62 | 279.76 | 217.47 | 222.07 | 228.89 | 143.12 | 154.67 | 147.03 | |
| Ret. above feed per an. unit | \$174.05 | 129.99 | 96.61 | 110.44 | 118.77 | 33.23 | 76.85 | 78.07 | |
| Return per \$100 of feed | \$ 218 | \$ 187 | \$ 180 | \$ 199 | \$ 208 | \$ 130 | \$ 199 | \$ 213 | |
| Animal units of cattle | 29.4 | 31.8 | 47.5 | 27.4 | 20.1 | 22.3 | 20.4 | 25.4 | |

Table 16. Comparison of Results for Identical Farms for Years 1954-1957.

| Farm No. | Total Receipts per farm | | | | Total Expenses per farm | | | | Labor Earnings per farm | | | |
|-------------|-------------------------|---------|---------|---------|-------------------------|---------|---------|---------|-------------------------|---------|---------|---------|
| | 1954 | 1955 | 1956 | 1957 | 1954 | 1955 | 1956 | 1957 | 1954 | 1955 | 1956 | 1957 |
| 1 | \$10537 | \$10920 | \$14519 | \$14741 | \$ 6442 | \$ 7271 | \$ 8876 | \$ 9834 | \$ 4095 | \$ 3649 | \$ 5643 | \$ 4907 |
| 2 | 9179 | 7455 | 8605 | 14652 | 7028 | 7335 | 7429 | 10518 | 2151 | 120 | 1176 | 4134 |
| 3 | 8126 | 8339 | 12256 | 10159 | 6100 | 6287 | 9855 | 7489 | 2026 | 2052 | 2401 | 2670 |
| 5 | 3984 | 2607 | 3176 | 3476 | 2850 | 2334 | 2199 | 2100 | 1134 | 273 | 977 | 1376 |
| 6 | 6307 | 6107 | 8049 | 6105 | 5413 | 4262 | 7243 | 4385 | 894 | 1845 | 806 | 1720 |
| 8 | 4392 | 6064 | 4912 | 5470 | 4011 | 6587 | 5965 | 4937 | 381 | -523 | -1053 | 533 |
| 9 | 3445 | 7221 | 10712 | 15090 | 3599 | 7041 | 8259 | 11571 | -154 | 180 | 2453 | 3519 |
| 10 | 5591 | 7429 | 13704 | 11443 | 6114 | 5240 | 8242 | 10540 | -523 | 2189 | 5462 | 903 |
| 11 | 1905 | 3218 | 6328 | 7014 | 2593 | 3378 | 5672 | 6359 | -688 | -160 | 656 | 655 |
| 13 | 9497 | 10654 | 11632 | 10183 | 10558 | 11691 | 12218 | 11294 | -1061 | -1037 | -586 | -1111 |
| 15 | 10186 | 9377 | 14423 | 15076 | 11514 | 11105 | 14071 | 14873 | -1328 | -1728 | 352 | 203 |
| 18 | 10253 | 16087 | 18693 | 15909 | 12663 | 16642 | 20245 | 19106 | -2410 | -555 | -1552 | -3197 |
| Ave. | 6950 | 7956 | 10584 | 10776 | 6573 | 7431 | 9189 | 9417 | 377 | 525 | 1395 | 1359 |

| Farm No. | Return to Capital and Family Labor | | | | Non-farm Income | | | |
|-------------|---------------------------------------|---------|---------|---------|-----------------|-------|-------|-------|
| | 1954 | 1955 | 1956 | 1957 | 1954 | 1955 | 1956 | 1957 |
| 1 | \$ 5361 | \$ 5679 | \$ 6484 | \$ 6763 | \$ -- | \$ -- | \$ -- | \$ -- |
| 2 | 3282 | 1812 | 2517 | 5635 | -- | 168 | 278 | 83 |
| 3 | 3212 | 3644 | 4012 | 4432 | -- | 2069 | 118 | 65 |
| 5 | 1872 | 1004 | 1267 | 2422 | -- | 460 | 973 | 1307 |
| 6 | 1570 | 2581 | 625 | 2449 | 2800 | -- | -- | 3565 |
| 8 | 1585 | 1407 | 684 | 1449 | -- | 144 | -- | -- |
| 9 | 324 | 1504 | 3912 | 5268 | 2800 | 935 | 815 | 146 |
| 10 | 212 | 3564 | 6366 | 3190 | -- | -- | 807 | 950 |
| 11 | -424 | 249 | 798 | 894 | 1618 | 3219 | 2713 | 3213 |
| 13 | 617 | 546 | 256 | 1142 | -- | -- | -- | 6 |
| 15 | 563 | -526 | 408 | 1254 | 3412 | -- | -- | 2684 |
| 18 | 1259 | 1140 | 137 | -1187 | 6000 | 6000 | 8000 | 7000 |
| Ave. | 1619 | 1884 | 2289 | 2809 | 1386 | 1083 | 1142 | 1585 |

Table 16. Comparison of Results for Identical Farms for Years 1954-1957. (continued)

| Farm No. | Number of Dairy Cows | | | | No. of Other Dairy Cattle | | | | Pounds Butterfat per Cow | | | |
|----------|----------------------|------|------|------|---------------------------|------|------|------|--------------------------|------|------|------|
| | 1954 | 1955 | 1956 | 1957 | 1954 | 1955 | 1956 | 1957 | 1954 | 1955 | 1956 | 1957 |
| 1 | 22.4 | 24.2 | 26.3 | 26.9 | 25.4 | 34.8 | 29.9 | 26.5 | 381 | 357 | 398 | 356 |
| 2 | 19.0 | 21.4 | 23.0 | 24.9 | 17.0 | 18.1 | 18.5 | 9.0 | 303 | 305 | 340 | 337 |
| 3 | 14.5 | 15.5 | 16.5 | 17.6 | 11.6 | 18.0 | 20.3 | 23.3 | 368 | 368 | 385 | 390 |
| 5 | 12.0 | 11.6 | 11.0 | 13.5 | 6.4 | 10.7 | 15.7 | 13.8 | 251 | 229 | 234 | 231 |
| 6 | 19.0 | 22.5 | 21.6 | 21.0 | 15.0 | 11.0 | 11.2 | 12.8 | 285 | 274 | 332 | 312 |
| 8 | 23.0 | 23.0 | 21.5 | 14.0 | 14.5 | 11.6 | 9.3 | 15.5 | 171 | 179 | 222 | 266 |
| 9 | 5.0 | 10.2 | 17.8 | 18.8 | 9.8 | 16.2 | 23.0 | 24.6 | 288 | 333 | 307 | 381 |
| 10 | 11.2 | 14.0 | 17.6 | 20.6 | 15.7 | 16.8 | 17.2 | 22.3 | 224 | 255 | 297 | 327 |
| 11 | 9.0 | 10.4 | 11.0 | 13.2 | 13.5 | 13.5 | 12.9 | 11.2 | 126 | 289 | 358 | 387 |
| 13 | 26.2 | 27.6 | 30.5 | 29.0 | 27.5 | 27.8 | 27.9 | 36.9 | 286 | 328 | 295 | 326 |
| 15 | 18.0 | 20.0 | 25.2 | 28.6 | 26.0 | 25.0 | 26.5 | 22.0 | 382 | 336 | 321 | 382 |
| 18 | .5 | 29.1 | 39.4 | 31.5 | 4.2 | 18.6 | 33.8 | 38.2 | - | 295 | 286 | 349 |
| Ave. | 15.0 | 19.1 | 21.8 | 21.6 | 20.3 | 18.5 | 20.5 | 21.3 | 255 | 296 | 315 | 337 |