

Table 28.—SOURCES OF FARM INCOME ON DAIRY FARMS, BY ECONOMIC CLASS OF FARM, FOR THE EASTERN OHIO-WESTERN PENNSYLVANIA REGION: 1954

| Item | Economic class of farm | | | | | | |
|---|------------------------|--------|--------|--------|--------|-------|-------|
| | Total | I | II | III | IV | V | VI |
| Number of farms..... | 40,636 | 258 | 4,432 | 12,439 | 12,911 | 7,055 | 3,541 |
| Gross sales— | | | | | | | |
| Per farm.....dollars.. | 5,389 | 30,716 | 13,458 | 6,990 | 3,760 | 1,883 | 751 |
| Per crop acre.....do.. | 99 | 120 | 92 | 74 | 58 | 38 | 23 |
| Percent of gross sales from dairy products..... | 71 | 76 | 70 | 71 | 72 | 67 | 62 |
| Sales per farm: | | | | | | | |
| Milk.....dollars.. | 3,810 | 23,219 | 9,378 | 4,946 | 2,725 | 1,264 | 463 |
| Cattle and calves.....do.. | 435 | 2,521 | 968 | 515 | 321 | 240 | 140 |
| Hogs.....do.. | 184 | 1,082 | 507 | 249 | 102 | 64 | 25 |
| Poultry products except eggs.....dollars.. | 71 | 152 | 240 | 88 | 41 | 18 | 9 |
| Eggs.....do.. | 252 | 608 | 640 | 350 | 160 | 92 | 47 |
| Sheep.....do.. | 18 | 45 | 23 | 22 | 15 | 15 | 8 |
| Other livestock and livestock products.....dollars.. | 15 | 43 | 25 | 18 | 14 | 14 | 6 |
| Total, livestock and livestock products.....dollars.. | 4,785 | 27,670 | 11,781 | 6,188 | 3,378 | 1,707 | 698 |
| Field crops.....do.. | 547 | 2,568 | 1,522 | 735 | 346 | 154 | 37 |
| Other crops ¹do.. | 57 | 478 | 155 | 67 | 36 | 22 | 16 |
| Total crops.....do.. | 604 | 3,046 | 1,677 | 802 | 382 | 176 | 53 |

¹ Includes horticultural and forest products.

Specified expenses of the dairy farms are two-thirds those of the Northeastern Dairy Region while the income is three-fourths as much (Table 29). Expenses were slightly less than one-half the total value of sales in comparison with slightly more than one-half for the Northeastern Region. Milk sales per cow were less but not so much was spent for feed. There was a wide range within the region both in specified expenses and in feed bought. Economic Subregion 30, with specified expenses of \$1,668 per farm was the lowest, and \$68 feed cost per cow was the second lowest of the area. At the other extreme was Economic Subregion 17 with \$3,921 expenses per farm and \$98 feed bought per cow. Economy in the use of resources may reduce efficiency.

Table 29.—SPECIFIED FARM EXPENDITURES ON DAIRY FARMS, BY ECONOMIC CLASS OF FARM, FOR THE EASTERN OHIO-WESTERN PENNSYLVANIA REGION: 1954

| Item | Economic class of farm | | | | | | |
|----------------------------|------------------------|--------|-------|--------|--------|-------|-------|
| | Total | I | II | III | IV | V | VI |
| Number of farms..... | 40,636 | 258 | 4,432 | 12,439 | 12,911 | 7,055 | 3,541 |
| Average per farm: | | | | | | | |
| Machine hire.....dollars.. | 139 | 148 | 205 | 175 | 135 | 93 | 37 |
| Hired labor.....do.. | 370 | 4,948 | 1,382 | 395 | 161 | 73 | 30 |
| Feed.....do.. | 1,241 | 5,016 | 2,891 | 1,586 | 926 | 545 | 224 |
| Gas and oil.....do.. | 340 | 1,391 | 714 | 431 | 279 | 160 | 63 |
| Fertilizer.....do.. | 287 | 1,477 | 702 | 362 | 203 | 122 | 49 |
| Lime.....do.. | 77 | 256 | 171 | 100 | 58 | 35 | 16 |
| Total.....do.. | 2,454 | 13,236 | 6,065 | 3,049 | 1,762 | 1,028 | 419 |
| Average per crop acre: | | | | | | | |
| Machine hire.....do.. | 2 | 1 | 1 | 2 | 2 | 2 | 1 |
| Hired labor.....do.. | 5 | 19 | 9 | 4 | 2 | 2 | 1 |
| Feed.....do.. | 16 | 20 | 20 | 17 | 14 | 11 | 7 |
| Gas and oil.....do.. | 4 | 5 | 5 | 5 | 4 | 3 | 2 |
| Fertilizer.....do.. | 4 | 6 | 5 | 4 | 3 | 3 | 2 |
| Lime.....do.. | 1 | 1 | 1 | 1 | 1 | 1 | (Z) |
| Total.....do.. | 32 | 52 | 41 | 33 | 26 | 22 | 13 |

Z Less than 0.50.

Sorting by size discloses the smaller farms to be slightly more diversified than the larger (Table 30). They have less income per

farm and per crop acre. Dairy-product sales per cow, both in dollars and pounds, are so low in Economic Class VI as to raise the question of whether the operators of these farms are seriously engaged in dairying. Sales of \$82 per cow in comparison with \$423 for Economic Class I is an extreme range. Approximately one-third of the small quantity of cream sold from the area is from the group of smallest farms and more than one-fourth of the total milk sales from these farms is in this form. The sale of cream may help to account for the low money income per cow but it will not account for the low milk production unless butterfat prices are so low as to discourage proper management.

Table 30.—MEASURES OF INCOME AND EFFICIENCY LEVELS FOR DAIRY FARMS, BY ECONOMIC CLASS OF FARM, FOR THE EASTERN OHIO-WESTERN PENNSYLVANIA REGION: 1954

| Item | Economic class of farm | | | | | | |
|--|------------------------|--------|--------|--------|--------|--------|-------|
| | Total | I | II | III | IV | V | VI |
| Number of farms..... | 40,636 | 258 | 4,432 | 12,439 | 12,911 | 7,055 | 3,541 |
| Gross sales per farm.....dollars.. | 5,389 | 30,716 | 13,458 | 6,990 | 3,760 | 1,883 | 751 |
| Specified expenses per farm.....do.. | 2,454 | 13,236 | 6,065 | 3,049 | 1,762 | 1,028 | 419 |
| Gross sales less specified expenses per farm.....dollars.. | 2,935 | 17,480 | 7,393 | 3,941 | 1,998 | 855 | 332 |
| Gross sales per man-equivalent..... | 3,849 | 6,981 | 6,117 | 4,660 | 2,892 | 1,883 | 751 |
| Total investment— | | | | | | | |
| Per farm.....dollars.. | 23,137 | 80,978 | 46,358 | 27,723 | 19,143 | 13,764 | 8,508 |
| Per man-equivalent.....do.. | 16,526 | 18,404 | 21,072 | 18,482 | 14,725 | 13,764 | 8,508 |
| Per \$100 gross sales.....do.. | 428 | 264 | 343 | 396 | 504 | 724 | 1,064 |
| Percent of sales of dairy products from cream..... | 1 | 1 | (Z) | (Z) | 1 | 3 | 28 |
| Milk sales per cow: | | | | | | | |
| Dollars..... | 251 | 423 | 328 | 269 | 213 | 143 | 82 |
| Pounds (milk equivalent)..... | 6,298 | 9,110 | 7,718 | 6,696 | 5,593 | 4,200 | 3,082 |

Z Less than 0.5.

A larger percentage of these farmers are using both lime and fertilizer than in the Northeastern Area (Table 31). Farmers of Economic Class I used 400 pounds of fertilizer per acre; those of the other economic classes used 40 to 100 pounds less per acre of land treated, and on a smaller acreage. Information is not available to show what kind or how much fertilizer should be used. It is probable that the small farms need fertilizer as much as the larger ones do, yet only two-thirds as many reported buying any.

Table 31.—USE OF FERTILIZER AND LIME ON DAIRY FARMS, BY ECONOMIC CLASS OF FARM, FOR THE EASTERN OHIO-WESTERN PENNSYLVANIA REGION: 1954

| Item | Economic class of farm | | | | | | |
|---|------------------------|-------|-------|--------|--------|-------|-------|
| | Total | I | II | III | IV | V | VI |
| Number of farms..... | 40,636 | 258 | 4,432 | 12,439 | 12,911 | 7,055 | 3,541 |
| Fertilizer: | | | | | | | |
| Percent of farms using..... | 90 | 98 | 98 | 96 | 93 | 82 | 60 |
| Tons used per farm reporting..... | 6 | 38 | 14 | 7 | 4 | 3 | 2 |
| Acres upon which used per farm reporting..... | 39 | 156 | 80 | 47 | 28 | 19 | 11 |
| Average per acre fertilized: | | | | | | | |
| Pounds..... | 320 | 301 | 343 | 313 | 305 | 308 | 317 |
| Cost.....dollars.. | 8.23 | 9.67 | 8.98 | 8.04 | 7.71 | 8.02 | 7.56 |
| Lime: | | | | | | | |
| Percent of farms using..... | 54 | 60 | 71 | 63 | 53 | 41 | 25 |
| Acres upon which used per farm reporting..... | 16 | 47 | 26 | 16 | 12 | 10 | 10 |
| Average per acre limed: | | | | | | | |
| Pounds..... | 3,456 | 3,180 | 3,568 | 3,495 | 3,487 | 3,132 | 2,856 |
| Cost.....dollars.. | 8.91 | 7.86 | 9.32 | 9.06 | 8.83 | 8.29 | 6.78 |