

December 1966

A. E. Res. 212

CASH CROPS AND FRUITS

COSTS AND RETURNS

from

FARM COST ACCOUNTS

42 FARMS - 1965

C. D. Karl and Darwin P. Snyder

Department of Agricultural Economics
Cornell University Agricultural Experiment Station
New York State College of Agriculture
A Contract College of the State University
Cornell University, Ithaca, New York

REPORTS
from
FARM COST ACCOUNTS
42 Farms, 1965

| | |
|--|---------------|
| Overhead Costs | A.E. Res. 210 |
| Field Crop Costs and Returns | A.E. Res. 211 |
| Cash Crops and Fruit Costs and Returns | A.E. Res. 212 |
| Livestock Costs and Returns | A.E. Res. 213 |

CASH CROPS AND FRUITS, A.E. Res. 212

- Contents -

| | Page |
|---|------|
| Introduction | 1 |
| Summary of cost account enterprises | 4 |
| Rates of return compared with other years | 5 |
| Apples | 6 |
| Sour cherries | 8 |
| Sweet cherries | 10 |
| Peaches | 12 |
| Grapes | 14 |
| Pears | 16 |
| Prunes | 16 |
| Potatoes | 18 |
| Peas for processing | 18 |
| Snap beans for processing | 19 |

INTRODUCTION

For the Cost Account year 1965 there were 42 New York State farmers who completed detailed records on their businesses in cooperation with the Department of Agricultural Economics, Cornell University. The farms are located in most of the farming areas of the state. They are generally well-run, full-time, commercial farm businesses. They are representative of the "better" farmers of New York.

This report presents the results for individual enterprises and the averages of the costs and returns for all farms. It thus shows not only the averages of costs and returns but also indications of the variations and reasons for them. The factors for individual enterprises are arranged according to size of enterprise. The averages of the costs are not averages of average costs but are weighted by the size of enterprise.

The project was under the supervision of C. D. Kearl. The field work on these accounts was done by Darwin Snyder and C. D. Kearl. The closing of the books and the preparation of this report on results of the operation of the farms was done by the Cost Account staff consisting of Marjorie Evans, Oneta Shipe, Edith Slights, Edna Wheeler, Helen Kruth, Abbie Leonard, Mildred Kubota and Margaret Auble.

ECONOMIC CONDITIONS

New York farm prices and prices paid by farmers for articles they buy, as indicated by U.S. indexes, were fairly stable during 1965 but were both about two percent above the 1964 level. The index of the former was 99 and the latter 110 on a 1957-59 bases. This indicates that, if farmers were to have a level of net income in 1965 that was comparable with that of the base period, they had to adjust their business operations to offset the adverse cost-price relationship.

In the early months of 1966 farm prices advanced rapidly. Prices of articles farmers buy advanced too, but at a slower rate. This would indicate that 1966 might well be a favorable year for farmers.

Hourly wages of workers in manufacturing industries continued to climb at a rate of about three percent per year. This, of course, is in contrast to the situation for farmers' net incomes and points up the pressures that farmers have been under as they have struggled to maintain a relative standard of living.

Economic Indexes
(1957-59 = 100)

| Year | United States | | |
|-------|----------------------|--------------------------------|---|
| | New York farm prices | Prices of articles farmers buy | Hourly earnings in manufacturing industries |
| 1958 | 101 | 100 | 100 |
| 1959 | 100 | 102 | 104 |
| 1960 | 98 | 103 | 107 |
| 1961 | 95 | 104 | 110 |
| 1962 | 95 | 106 | 113 |
| 1963 | 95 | 106 | 115 |
| 1964 | 97 | 107 | 118 |
| 1965 | 99 | 110 | 121 |
| Jan. | 101 | 108 | 120 |
| Feb. | 101 | 109 | 120 |
| March | 98 | 109 | 120 |
| April | 100 | 109 | 120 |
| May | 99 | 110 | 121 |
| June | 98 | 110 | 121 |
| July | 95 | 110 | 121 |
| Aug. | 95 | 110 | 121 |
| Sept. | 96 | 110 | 122 |
| Oct. | 100 | 110 | 122 |
| Nov. | 100 | 110 | 122 |
| Dec. | 101 | 111 | 123 |
| 1966 | | | |
| Jan. | 103 | 112 | 123 |
| Feb. | 108 | 112 | 123 |
| March | 108 | 113 | 124 |
| April | 110 | 114 | 124 |

WEATHER CONDITIONS AT EIGHT NEW YORK STATIONS, 1965*

| Station | Length growing season** days | May 1 - Sept. 30 | | Annual total precipitation inches |
|--------------|------------------------------------|-----------------------------------|-------------------------|---|
| | | Average temperature degrees | Precipitation inches | |
| Aurora | 155 | 64.2 | 8.9 | 22.5 |
| Batavia | 152 | 64.5 | 11.6 | 29.4 |
| Brockport | 106 | 64.2 | 9.5 | 25.6 |
| Canton | 115 | 61.6 | 12.7 | 28.6 |
| Fredonia | 151 | 65.2 | 14.1 | 38.3 |
| Norwich | 87 | 61.0 | 15.9 | 34.5 |
| Poughkeepsie | 163 | 69.5 | 14.0 | 32.0 |
| Salem | 90 | 64.5 | 14.9 | 31.8 |

*Weather Bureau, U.S. Department of Commerce, Annual Summary, 1965

**Number of days between last and first frost

Generally, the growing season in New York State was shorter than usual. However, in the central plains region it approached normal. After three dry years some areas still had dry weather. This was particularly true during May, June and July and seriously affected the yields of crops planted in the spring and dependent on good moisture during the spring months. In the latter part of the summer the rains came and helped but, although they replaced lost ground water, they were too late to enable farmers to get good crop yields. Overall, the precipitation was below normal but was considerably better than in 1964. The temperature during the growing season was below normal which probably made the dry weather more bearable and enabled the crops to use more effectively what water there was.

YIELDS FOR CROPS AND LIVESTOCK

| Item | Unit | New York State* | | | Cost Account |
|-------------|------|-----------------|---------|-------|-----------------|
| | | 1936-40 | 1946-55 | 1965 | 1965 |
| Hay | tons | 1.3 | 1.7 | 1.7 | 2.1 |
| Corn silage | tons | 9 | 10 | 12 | 12 |
| Corn grain | bu. | 34 | 44 | 57 | 45 |
| Wheat | bu. | 24 | 31 | 36 | 45 |
| Oats | bu. | 30 | 38 | 47 | 60 |
| Cows | lbs. | 5,628 | 6,588 | 9,300 | 13,008 |
| Hens | eggs | 154 | 188 | 218 | 208 |

*AMS Reports and unpublished tabulations

For some New York farmers this was the fourth dry year in a row and generally, across the state, crop yields were only fair. However, the moisture conditions as noted above were "spotty" and some farmers had good crops. The spring planted crops suffered in many cases while the winter crops such as wheat were not seriously affected by the lack of rainfall.

SUMMARY, 1965
Crop Enterprises

| Crop | Number of accounts | Average acres per enterprise | Average yield per acre | Hours of labor per acre | Return per hour of labor | Return per dollar of cost | Profit per acre | Profit on enterprise |
|------------------------|--------------------|------------------------------|------------------------|-------------------------|--------------------------|---------------------------|-----------------|----------------------|
| <u>Fruit:</u> | | | | | | | | |
| Apples | 15 | 67.0 | 429 bu. | 105 | \$2.26 | \$1.11 | \$ 48 | \$3,230 |
| Sweet cherries | 6 | 10.4 | 4,274 lbs. | 136 | 2.47 | 1.36 | 127 | 1,320 |
| Sour cherries | 8 | 30.3 | 8,057 lbs. | 147 | 1.68 | 1.05 | 20 | 616 |
| Peaches | 5 | 14.8 | 93 bu. | 123 | 1.05 | 0.85 | -70 | -1,029 |
| Grapes | 5 | 25.9 | 3.9 tons | 126 | 2.16 | 1.08 | 36 | 928 |
| <u>Grain:</u> | | | | | | | | |
| Wheat | 15 | 78.0 | 45 bu. | 4 | 5.89 | 1.24 | 16 | 1,280 |
| Corn for grain | 8 | 110.9 | 45 bu. | 5 | -3.79 | 0.66 | -30 | -3,328 |
| Oats | 6 | 29.4 | 60 bu. | 5 | -1.67 | 0.79 | -16 | -462 |
| Rye | 5 | 9.8 | 39 bu. | 7 | 1.61 | 0.99 | -1 | -6 |
| <u>Hay and Silage:</u> | | | | | | | | |
| Hay | 24 | 94.1 | 2.1 tons | 5 | 2.78 | 1.08 | 5 | 436 |
| Hay crop silage | 8 | 44.7 | 5.8 tons | 5 | 4.31 | 1.16 | 13 | 565 |
| Corn silage | 27 | 76.3 | 12 tons | 7 | 1.31 | 0.97 | -3 | -264 |

Livestock Enterprises

| Enterprise | Number of accounts | Average number of head per farm | Production per head | Hours of labor per head | Return per hour of labor | Return per dollar of cost | Profit on enterprise |
|------------|--------------------|---------------------------------|---------------------|-------------------------|--------------------------|---------------------------|----------------------|
| Dairy cows | 25 | 84 | 13,088 lbs. | 63 | \$1.85 | \$1.01 | \$ 316 |
| Hens | 5 | 15,453 | 208 eggs | 0.4 | 2.56 | 1.04 | 3,808 |

SUMMARY, 1965

| Farm enterprise | Return per hour of labor | | | | | Return per dollar of cost | | | |
|------------------------|--------------------------|-------|-------|-------|-------|---------------------------|------|------|------|
| | 1949 to 1953 | 1962 | 1963 | 1964 | 1965 | 1962 | 1963 | 1964 | 1965 |
| | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ |
| <u>Livestock:</u> | | | | | | | | | |
| Dairy cows | 1.41 | 1.45 | 1.68 | 1.60 | 1.85 | 0.97 | 1.00 | 0.99 | 1.01 |
| Hens | 1.38 | 1.89 | 2.44 | 0.71 | 2.56 | 1.03 | 1.06 | 0.92 | 1.04 |
| Raising chicks | 0.83 | 14.09 | 3.44 | 5.00 | -- | 1.35 | 1.06 | 1.11 | -- |
| <u>Fruit:</u> | | | | | | | | | |
| Apples | 2.01 | 2.55 | 2.72 | 2.33 | 2.26 | 1.23 | 1.27 | 1.15 | 1.11 |
| Sweet cherries | -- | -- | 3.26 | 2.16 | 2.47 | -- | 1.85 | 1.31 | 1.36 |
| Sour cherries | -- | 1.22 | 2.37 | 1.16 | 1.68 | 0.96 | 1.48 | 0.90 | 1.05 |
| Peaches | 1.11 | 1.08 | 1.22 | 1.24 | 1.05 | 0.84 | 0.86 | 0.91 | 0.85 |
| Grapes | -- | -- | 3.70 | 2.14 | 2.16 | -- | 1.65 | 1.21 | 1.08 |
| <u>Grain:</u> | | | | | | | | | |
| Corn | 2.25 | 1.87 | 1.39 | 1.47 | -3.79 | 1.00 | 0.95 | 0.96 | 0.66 |
| Oats | 0.37 | 0.38 | -0.38 | -0.82 | -1.67 | 0.88 | 0.83 | 0.79 | 0.79 |
| Wheat | 3.47 | 5.89 | 4.39 | 4.51 | 5.89 | 1.36 | 1.23 | 1.21 | 1.24 |
| Rye | -- | -- | -- | 4.79 | 1.61 | -- | -- | 1.25 | 0.99 |
| <u>Hay and Silage:</u> | | | | | | | | | |
| All hay | 1.37 | 2.40 | 3.56 | 3.18 | 2.78 | 1.06 | 1.19 | 1.13 | 1.08 |
| Hay crop silage | -- | -- | -- | 1.00 | 4.31 | -- | -- | 0.93 | 1.16 |
| Corn silage | -- | 0.76 | 1.79 | 1.44 | 1.31 | 0.33 | 1.01 | 0.97 | 0.97 |

Factors from 15 APPLE Accounts, 1965*
(Arranged by acres of apples)

| Farm number | Orchard bearing age acres | Yield packable fruit per acre bu. | Labor | Cost | Net to grower | | Return per hour of labor \$ | Return per dollar of cost \$ | Profit on enterprise \$ |
|-------------|------------------------------|--------------------------------------|--------------------------|-----------------------|--------------------|-----------------------|--------------------------------|---------------------------------|----------------------------|
| | | | to grow an acre hours | to grow an acre \$ | Cost per bu. \$ | Returns per bu. \$ | | | |
| 170 | 244.6 | 488 | 27 | 224 | 0.92 | 1.06 | 2.49 | 1.11 | 16,853 |
| 315 | 156.2 | 608 | 55 | 265 | 0.75 | 1.09 | 3.58 | 1.42 | 32,383 |
| 376 | 131.0 | 430 | 38 | 182 | 0.81 | 0.91 | 2.04 | 1.12 | 5,710 |
| 376 | 111.4 | 303 | 36 | 229 | 1.22 | 0.98 | 0.87 | 0.80 | -8,172 |
| 426 | 67.0 | 482 | 37 | 182 | 0.73 | 0.69 | 1.26 | 0.95 | -1,446 |
| 425 | 52.7 | 479 | 37 | 281 | 0.93 | 0.96 | 2.11 | 1.03 | 678 |
| 200 | 50.8 | 399 | 18 | 116 | 0.67 | 1.21 | 3.91 | 1.70 | 10,995 |
| 401 | 50.0 | 125 | 18 | 121 | 1.80 | 0.96 | 0.36 | 0.70 | -5,212 |
| 383 | 47.5 | 355 | 16 | 167 | 1.00 | 0.98 | 2.36 | 0.99 | -312 |
| 448 | 37.0 | 259 | 13 | 142 | 0.84 | 0.89 | 1.65 | 1.06 | 471 |
| 430 | 18.8 | 268 | 29 | 175 | 1.05 | 0.97 | 1.44 | 0.93 | -418 |
| 391 | 17.2 | 397 | 54 | 259 | 1.52 | 1.46 | 2.06 | 0.96 | -400 |
| 403 | 10.4 | 171 | 23 | 195 | 4.11 | 2.20 | 0.10 | 0.56 | -3,399 |
| 376 | 6.4 | 205 | 8 | 121 | 0.94 | 1.16 | 3.27 | 1.24 | 292 |
| 376 | 4.2 | 350 | 25 | 137 | 0.83 | 1.12 | 2.62 | 1.35 | 422 |

Averages for 1965, by thirds according to acres of apples, weighted by farms:

| | | | | | | | | | |
|--------|-------|-----|----|-----|------|------|------|------|-------|
| High | 142.0 | 462 | 39 | 216 | 0.89 | 0.95 | 2.05 | 1.08 | 9,066 |
| Medium | 47.6 | 323 | 20 | 165 | 1.05 | 1.00 | 2.08 | 1.10 | 1,324 |
| Low | 11.4 | 278 | 28 | 177 | 1.69 | 1.38 | 1.90 | 1.01 | -701 |

Annual averages, all farms, weighted by acres of apples:

| | | | | | | | | | |
|------|------|-----|----|-----|------|------|------|------|-------|
| 1965 | 67.0 | 429 | 34 | 208 | 0.90 | 1.01 | 2.26 | 1.11 | 3,230 |
| 1964 | 65.1 | 380 | 29 | 183 | 0.84 | 1.01 | 2.33 | 1.15 | 4,220 |
| 1963 | 57.7 | 401 | 36 | 194 | 0.82 | 1.12 | 2.72 | 1.27 | 6,913 |
| 1962 | 64.3 | 426 | 27 | 172 | 0.73 | 0.95 | 2.55 | 1.23 | 5,962 |
| 1961 | 60.9 | 457 | 38 | 200 | 0.76 | 0.85 | 1.95 | 1.09 | 2,380 |

*15 accounts on 12 farms

APPLES, 1965
1,005 acres on 12 farms

| Average per acre: | Dollars |
|---|---------|
| Growing: | |
| Orchard overhead..... | 23.71 |
| 299 pounds of fertilizer at \$71.97 per ton..... | 10.76 |
| Spray and dust materials..... | 53.90 |
| 33.5 hours of labor at \$1.89 per hour..... | 63.25 |
| 8.8 hours of tractor work at \$1.25 per hour..... | 11.01 |
| Other equipment (including auto and truck)..... | 26.33 |
| Interest..... | 5.48 |
| All other..... | 13.21 |
| Total growing..... | 207.65 |
| Harvesting: | |
| 67.9 hours of labor..... | 119.37 |
| 4.5 hours of tractor work..... | 6.36 |
| Auto and truck..... | 13.75 |
| Other equipment..... | 9.26 |
| All other..... | 5.01 |
| Total harvesting..... | 153.75 |
| Storing and selling: | |
| Packages, commissions, storage, etc. | 68.01 |
| Labor..... | 6.23 |
| Equipment (including auto and truck)..... | 4.05 |
| Buildings..... | 1.83 |
| All other..... | 16.31 |
| Total storing and selling..... | 96.43 |
| Total cost per acre..... | 457.83 |
| Returns: | |
| 429 bushels of packable fruit..... | 503.70 |
| Ciders and drops..... | 2.32 |
| Total return per acre..... | 506.02 |
| Net gain per acre..... | 48.19 |
| <hr/> | |
| Cost to grow a bushel..... | 0.48 |
| Cost to harvest a bushel..... | 0.36 |
| Cost to store and sell a bushel..... | 0.23 |
| Total cost per bushel..... | 1.07 |
| Net cost per bushel*..... | 0.90 |
| Total return per bushel..... | 1.18 |
| Net return per bushel*..... | 1.01 |
| Gain per bushel..... | 0.11 |
| <hr/> | |
| Labor return per acre..... | 237.04 |
| Return per hour of labor..... | 2.26 |
| Return per dollar of cost..... | 1.11 |

*Minus packages, commissions, hired packing, storage and cartage

Factors from 8 SOUR CHERRY Accounts, 1965*
(Arranged by acres of cherries)

| Farm number | Orchard bearing age acres | Yield per acre pounds | Labor | Cost | Net to grower | | Return per hour of labor \$ | Return per dollar of cost \$ | Profit on enter-prise \$ |
|-------------|------------------------------|--------------------------|--------------------------|-----------------------|-------------------|----------------------|--------------------------------|---------------------------------|-----------------------------|
| | | | to grow an acre hours | to grow an acre \$ | Cost per lb. ¢ | Returns per lb. ¢ | | | |
| 425 | 85.3 | 9,823 | 21 | 146 | 4.4 | 5.2 | 1.91 | 1.17 | 6,470 |
| 170 | 46.7 | 7,666 | 14 | 118 | 4.9 | 5.4 | 1.81 | 1.09 | 1,624 |
| 376 | 41.0 | 7,836 | 17 | 116 | 4.7 | 5.0 | 1.83 | 1.07 | 991 |
| 315 | 29.7 | 8,805 | 6 | 81 | 4.2 | 4.2 | 1.54 | 1.01 | 75 |
| 376 | 16.1 | 5,662 | 63 | 169 | 7.3 | 5.0 | 0.94 | 0.68 | -2,128 |
| 383 | 13.4 | 2,017 | 9 | 97 | 11.7 | 5.1 | -0.02 | 0.43 | -1,797 |
| 448 | 5.5 | 7,452 | 4 | 83 | 3.5 | 4.4 | 1.89 | 1.25 | 364 |
| 376 | 4.6 | 3,125 | 13 | 105 | 8.6 | 4.0 | 0.10 | 0.46 | -667 |

Annual averages, all farms, weighted by acres of cherries:

| | | | | | | | | | |
|------|------|-------|----|-----|-----|-----|------|------|--------|
| 1965 | 30.3 | 8,057 | 19 | 124 | 4.8 | 5.1 | 1.68 | 1.05 | 616 |
| 1964 | 26.7 | 8,516 | 16 | 125 | 4.9 | 4.4 | 1.16 | 0.90 | -1,120 |
| 1963 | 25.0 | 5,521 | 18 | 122 | 6.6 | 9.8 | 2.37 | 1.48 | 4,393 |
| 1962 | 32.5 | 7,199 | 14 | 120 | 5.0 | 4.8 | 1.22 | 0.96 | -489 |
| 1961 | 28.8 | 9,564 | 19 | 143 | 5.0 | 6.4 | 2.10 | 1.28 | 3,861 |

*8 accounts on 6 farms

SOUR CHERRIES, 1965
240 acres on 6 farms*

| Average per acre: | Dollars |
|---|---------|
| Growing: | |
| Orchard overhead..... | 29.13 |
| 187 pounds of fertilizer at \$72.94 per ton..... | 6.82 |
| Spray and dust materials..... | 14.19 |
| 18.7 hours of labor at \$1.99 per hour..... | 37.21 |
| 5.8 hours of tractor work at \$1.33 per hour..... | 7.72 |
| Other equipment (including auto and truck)..... | 16.03 |
| Interest..... | 2.69 |
| All other..... | 10.42 |
| Total growing..... | 124.21 |
| Harvesting: | |
| 128 hours of labor..... | 189.33 |
| Auto, truck and tractor..... | 17.65 |
| Other equipment..... | 39.56 |
| All other..... | 7.63 |
| Total harvesting..... | 254.17 |
| Storing and selling..... | 9.31 |
| Total cost per acre..... | 387.69 |
| Returns: | |
| 8,057 pounds of cherries..... | 408.04 |
| Net gain per acre..... | 20.35 |
| | Cents |
| Cost per pound to grow..... | 1.5 |
| Cost per pound to harvest..... | 3.2 |
| Cost per pound to store and sell..... | 0.1 |
| Net cost per pound..... | 4.8 |
| Net return per pound..... | 5.1 |
| Gain per pound..... | 0.3 |
| | Dollars |
| Labor return per acre..... | 246.89 |
| Return per hour of labor..... | 1.68 |
| Return per dollar of cost..... | 1.05 |

*8 accounts on 6 farms

Factors from 6 SWEET CHERRY Accounts, 1965
(Arranged by acres of cherries)

| Farm number | Orchard bearing age | Yield per acre | Labor | Cost | Net to grower | | Return | Return | Profit |
|-------------|---------------------|----------------|-----------------|-----------------|---------------|-----------------|-------------------|--------------------|---------------|
| | | | to grow an acre | to grow an acre | Cost per lb. | Returns per lb. | per hour of labor | per dollar of cost | on enterprise |
| | acres | pounds | hours | \$ | ¢ | ¢ | \$ | \$ | \$ |
| 170 | 26.4 | 4,982 | 12 | 123 | 7.5 | 11.3 | 2.72 | 1.49 | 5,033 |
| 315 | 24.1 | 4,207 | 16 | 112 | 7.3 | 10.7 | 2.53 | 1.47 | 3,467 |
| 383 | 6.3 | 1,118 | * | 66 | 9.7 | 10.5 | 3.33 | 1.08 | 55 |
| 376 | 2.8 | 2,410 | 34 | 232 | 20.9 | 15.6 | 0.72 | 0.75 | -355 |
| 403 | 2.0 | 7,300 | 26 | 250 | 11.4 | 9.5 | 1.63 | 0.83 | -277 |
| 425 | 1.0 | 6,280 | 9 | 200 | 9.4 | 9.3 | 1.45 | 1.00 | -2 |

Annual averages, all farms, weighted by acres of cherries:

| | | | | | | | | | |
|------|------------------------|-------|----|-----|-----|------|------|------|-------|
| 1965 | 10.4 | 4,274 | 14 | 123 | 8.0 | 11.0 | 2.47 | 1.36 | 1,320 |
| 1964 | 10.2 | 9,579 | 15 | 126 | 5.9 | 7.8 | 2.16 | 1.31 | 1,814 |
| 1963 | 7.4 | 5,421 | 9 | 113 | 7.4 | 13.8 | 3.26 | 1.85 | 2,565 |
| 1962 | -----Not averaged----- | | | | | | | | |
| 1961 | -----Not averaged----- | | | | | | | | |

*Less than one hour

SWEET CHERRIES, 1965
63 acres on 6 farms

| Average per acre: | Dollars |
|---|---------|
| Growing: | |
| Orchard overhead..... | 27.35 |
| 220 pounds of fertilizer at \$77.82 per ton..... | 8.56 |
| Spray and dust materials..... | 12.68 |
| 13.7 hours of labor at \$2.03 per hour..... | 27.81 |
| 4.4 hours of tractor work at \$1.28 per hour..... | 5.61 |
| Other equipment (including auto and truck)..... | 22.33 |
| Interest..... | 2.59 |
| All other..... | 16.39 |
| Total growing..... | 123.32 |
| Harvesting: | |
| 121 hours of labor..... | 179.41 |
| Auto, truck and tractor..... | 11.87 |
| Other equipment..... | 11.02 |
| All other..... | 11.60 |
| Total harvesting..... | 213.90 |
| Storing and selling..... | 14.31 |
| Total cost per acre..... | 351.53 |
| Returns: | |
| 4,274 pounds of cherries..... | 478.06 |
| Net gain per acre..... | 126.53 |
| Cents | |
| Cost per pound to grow..... | 2.9 |
| Cost per pound to harvest..... | 5.0 |
| Cost per pound to store and sell..... | 0.3 |
| Total cost per pound..... | 8.2 |
| Net cost per pound..... | 8.0 |
| Total return per pound..... | 11.2 |
| Net return per pound..... | 11.0 |
| Gain per pound..... | 3.0 |
| Dollars | |
| Labor return per acre..... | 335.67 |
| Return per hour of labor..... | 2.47 |
| Return per dollar of cost..... | 1.36 |

Factors from 5 PEACH Accounts, 1965
(Arranged by acres of peaches)

| Farm number | Orchard bearing age acres | Yield packable fruit per acre bu. | Labor | Cost | Net to grower | | Return per hour of labor \$ | Return per dollar of cost \$ | Profit on enterprise \$ |
|-------------|---------------------------|-----------------------------------|-----------------------|--------------------|-----------------|--------------------|-----------------------------|------------------------------|-------------------------|
| | | | to grow an acre hours | to grow an acre \$ | Cost per bu. \$ | Returns per bu. \$ | | | |
| 440 | 30.0 | 72 | 69 | 400 | 8.99 | 6.21 | 0.47 | 0.72 | -6,033 |
| 170 | 24.2 | 147 | 20 | 186 | 2.17 | 2.67 | 3.05 | 1.22 | 1,789 |
| 376 | 10.1 | 29 | 45 | 192 | 9.23 | 4.94 | 0.01 | 0.54 | -1,266 |
| 200 | 5.0 | 51 | 9 | 74 | 3.24 | 2.94 | 1.20 | 0.92 | -76 |
| 448 | 4.5 | 128 | 22 | 139 | 3.02 | 3.79 | 2.52 | 1.25 | 440 |

Annual averages, all farms, weighted by acres of peaches:

| | | | | | | | | | |
|------|------|-----|----|-----|------|------|------|------|--------|
| 1965 | 14.8 | 93 | 43 | 264 | 4.75 | 4.00 | 1.05 | 0.85 | -1,029 |
| 1964 | 12.0 | 95 | 47 | 218 | 3.84 | 3.44 | 1.24 | 0.91 | -453 |
| 1963 | 11.6 | 102 | 44 | 200 | 3.39 | 2.86 | 1.22 | 0.86 | -626 |
| 1962 | 12.9 | 77 | 45 | 207 | 4.27 | 3.52 | 1.08 | 0.84 | -748 |
| 1961 | 9.4 | 98 | 37 | 160 | 2.85 | 2.19 | 1.01 | 0.78 | -606 |

PEACHES, 1965
74 acres on 5 farms

| Average per acre: | Dollars |
|--|---------------|
| Growing: | |
| Orchard overhead..... | 76.64 |
| 239 pounds of fertilizer at \$77.82 per ton..... | 9.30 |
| Spray and dust materials..... | 37.21 |
| 42.7 hours of labor at \$1.61 per hour..... | 68.59 |
| 11.1 hours of tractor work at \$1.39 per hour..... | 15.45 |
| Other equipment (including auto and truck)..... | 30.66 |
| Interest..... | 5.53 |
| All other..... | 20.31 |
| Total growing..... | 263.69 |
| Harvesting: | |
| 61.3 hours of labor..... | 100.27 |
| Auto, truck and tractor..... | 8.37 |
| Other equipment..... | 6.52 |
| All other..... | 12.21 |
| Total harvesting..... | 127.37 |
| Storing and selling: | |
| Packages..... | 30.84 |
| Labor..... | 29.92 |
| Advertising..... | 6.96 |
| All other..... | 13.59 |
| Total storing and selling..... | 81.31 |
| Total cost per acre..... | 472.37 |
| Returns: | |
| 93 bushels of peaches..... | 402.64 |
| Net loss per acre..... | 69.73 |
| <hr/> | |
| Cost to grow a bushel..... | 2.84 |
| Cost to harvest a bushel..... | 1.37 |
| Cost to store and sell a bushel..... | 0.87 |
| Total cost per bushel..... | 5.08 |
| Net cost per bushel..... | 4.75 |
| Total return per bushel..... | 4.33 |
| Net return per bushel..... | 4.00 |
| Loss per bushel..... | 0.75 |
| <hr/> | |
| Labor return per acre..... | 129.05 |
| Return per hour of labor..... | 1.05 |
| Return per dollar of cost..... | 0.85 |

Factors from 5 GRAPE Accounts, 1965
(Arranged by acres of grapes)

| Farm number | Vineyard acres | Yield per acre tons | Labor | Cost | Net to grower | | Return per hour of labor | Return per dollar of cost | Profit on enter- prise |
|----------------|-------------------|------------------------------|-----------------------------------|--------------------------------|------------------|------------------|-----------------------------------|------------------------------------|---------------------------------|
| | | | to grow an acre hours | to grow an acre \$ | Cost | Returns | | | |
| | | | | | per ton \$ | per ton \$ | | | |
| 403 | 67.0 | 3.2 | 69 | 305 | 136.86 | 162.23 | 2.89 | 1.19 | 5,491 |
| 384 | 39.4 | 5.2 | 72 | 259 | 87.35 | 92.06 | 1.68 | 1.05 | 968 |
| 383 | 8.4 | 3.4 | 33 | 199 | 130.07 | 103.72 | 1.76 | 0.82 | -759 |
| 376 | 7.7 | 3.3 | 100 | 280 | 121.44 | 82.75 | 0.79 | 0.69 | -971 |
| 401 | 6.8 | 3.4 | 82 | 267 | 100.95 | 97.17 | 1.82 | 0.96 | -87 |

Annual averages, all farms, weighted by acres of grapes:

| | | | | | | | | | |
|------|------------------------|-----|----|-----|--------|--------|------|------|-------|
| 1965 | 25.9 | 3.9 | 70 | 281 | 113.66 | 122.97 | 2.16 | 1.08 | 928 |
| 1964 | 21.2 | 3.9 | 73 | 252 | 99.19 | 119.98 | 2.14 | 1.21 | 1,716 |
| 1963 | 19.6 | 4.8 | 64 | 243 | 78.79 | 130.43 | 3.70 | 1.65 | 4,902 |
| 1962 | -----Not averaged----- | | | | | | | | |
| 1961 | -----Not averaged----- | | | | | | | | |

GRAPES, 1965
129 acres on 5 farms

| Average per acre: | Dollars |
|--|---------|
| Growing: | |
| Vineyard overhead..... | 58.29 |
| 309 pounds of fertilizer at \$67.18 per ton..... | 10.38 |
| Spray and dust materials..... | 15.47 |
| 70.4 hours of labor at \$1.86 per hour..... | 131.02 |
| 10.9 hours of tractor work at \$1.13 per hour..... | 12.37 |
| Other equipment (including auto and truck)..... | 22.25 |
| Interest..... | 7.02 |
| All other..... | 23.70 |
| Total growing..... | 280.50 |
| Harvesting: | |
| 55.6 hours of labor..... | 105.30 |
| Auto, truck and tractor..... | 23.34 |
| Other equipment..... | 8.08 |
| All other..... | 18.61 |
| Total harvesting..... | 155.33 |
| Storing and selling..... | 8.15 |
| Total cost per acre..... | 443.98 |
| Returns: | |
| 3.9 tons of grapes..... | 479.88 |
| Net gain per acre..... | 35.90 |
| <hr/> | |
| Cost to grow a ton..... | 72.74 |
| Cost to harvest a ton..... | 40.28 |
| Cost to store and sell a ton..... | 2.11 |
| Total cost per ton..... | 115.13 |
| Net cost per ton*..... | 113.66 |
| Total returns per ton..... | 124.44 |
| Net returns per ton*..... | 122.97 |
| Gain per ton..... | 9.31 |
| <hr/> | |
| Labor return per acre..... | 272.22 |
| Return per hour of labor..... | 2.16 |
| Return per dollar of cost..... | 1.08 |

*Net cost is the total cost per ton minus the cost of packages, commissions, hired packing, storage, and transportation; net returns are the total returns minus these same items.

Factors from 4 PEAR Accounts, 1965
(Arranged by acres of pears)

| Farm number | Orchard bearing age acres | Yield packable fruit per acre bu. | Labor Cost | | Net to grower | | Return per hour of labor \$ | Return per dollar of cost \$ | Profit on enterprise \$ |
|-------------|---------------------------|-----------------------------------|-----------------------|--------------------|-----------------|--------------------|-----------------------------|------------------------------|-------------------------|
| | | | to grow an acre hours | to grow an acre \$ | Cost per bu. \$ | Returns per bu. \$ | | | |
| 170 | 47.9 | 262 | 9 | 122 | 0.90 | 2.74 | 9.93 | 3.00 | 23,118 |
| 383 | 5.5 | 168 | 3 | 86 | 2.09 | 3.16 | 4.34 | 1.48 | 993 |
| 430 | 3.9 | 40 | 4 | 122 | 4.28 | 3.00 | -0.95 | 0.71 | -201 |
| 448 | 2.5 | 216 | 36 | 196 | 1.27 | 2.96 | 5.79 | 2.34 | 913 |

Factors from 5 PRUNE Accounts, 1965*
(Arranged by acres of prunes)

| Farm number | Orchard bearing age acres | Yield per acre bu. | Labor Cost | | Net to grower | | Return per hour of labor \$ | Return per dollar of cost \$ | Profit on enterprise \$ |
|-------------|---------------------------|--------------------|-----------------------|--------------------|-----------------|--------------------|-----------------------------|------------------------------|-------------------------|
| | | | to grow an acre hours | to grow an acre \$ | Cost per bu. \$ | Returns per bu. \$ | | | |
| 376 | 14.4 | 162 | 8 | 157 | 1.99 | 2.96 | 3.55 | 1.48 | 2,253 |
| 170 | 3.0 | 314 | 8 | 139 | 2.14 | 3.36 | 3.15 | 1.57 | 1,147 |
| 376 | 2.9 | 176 | 9 | 144 | 1.95 | 2.22 | 2.16 | 1.14 | 140 |
| 383 | 2.9 | 188 | 1 | 75 | 0.75 | 2.00 | 12.77 | 2.66 | 680 |
| 200 | 2.2 | ** | 2 | 41 | ** | ** | -16.60 | ** | -90 |

Annual averages, all farms, weighted by acres of prunes:

| | | | | | | | | | |
|------|------------------------|-----|---|-----|------|------|------|------|-----|
| 1965 | 5.1 | 170 | 7 | 134 | 1.88 | 2.84 | 3.47 | 1.50 | 826 |
| 1964 | -----Not averaged----- | | | | | | | | |
| 1963 | -----Not averaged----- | | | | | | | | |
| 1962 | -----Not averaged----- | | | | | | | | |
| 1961 | -----Not averaged----- | | | | | | | | |

*5 Accounts on 4 farms

**Crop failure

PRUNES, 1965
25 acres on 5 farms

| Average per acre: | Dollars |
|---|---------|
| Growing: | |
| Orchard overhead..... | 33.82 |
| 263 pounds of fertilizer at \$77.26 per ton..... | 10.16 |
| Spray and dust materials..... | 41.38 |
| 7.0 hours of labor at \$1.71 per hour..... | 11.97 |
| 5.7 hours of tractor work at \$0.89 per hour..... | 5.08 |
| Other equipment (including auto and truck)..... | 17.01 |
| Interest..... | 2.91 |
| All other..... | 11.49 |
| Total growing..... | 133.82 |
| Harvesting: | |
| 83.9 hours of labor..... | 140.55 |
| Auto, truck and tractor..... | 20.43 |
| Other equipment..... | 14.14 |
| All other..... | 9.37 |
| Total harvesting..... | 184.49 |
| Storing and selling: | |
| Packages..... | 3.43 |
| All other..... | 2.12 |
| Total storing and selling..... | 5.55 |
| Total cost per acre..... | 323.86 |
| Returns: | |
| 170 bushels of peaches..... | 486.46 |
| Net gain per acre..... | 162.60 |
| <hr/> | |
| Cost to grow a bushel..... | 0.79 |
| Cost to harvest a bushel..... | 1.08 |
| Cost to store and sell a bushel..... | 0.03 |
| Total cost per bushel..... | 1.90 |
| Net cost per bushel..... | 1.88 |
| Total return per bushel..... | 2.86 |
| Net return per bushel..... | 2.84 |
| Gain per bushel..... | 0.96 |
| <hr/> | |
| Labor return per acre..... | 315.12 |
| Return per hour of labor..... | 3.47 |
| Return per dollar of cost..... | 1.50 |

Factors from 4 POTATO Accounts, 1965
(Arranged by acres of potatoes)

| Farm number | Potatoes grown acres | Yield per acre bu. | Labor per acre hours | Average per acre | | Cost per bushel \$ | Return per hour of labor \$ | Return per dollar of cost \$ | Profit on enterprise \$ |
|-------------|----------------------|--------------------|----------------------|------------------|------------|--------------------|-----------------------------|------------------------------|-------------------------|
| | | | | Cost \$ | Returns \$ | | | | |
| 417 | 94.7* | 265 | 58 | 388 | 421 | 1.47 | 1.86 | 1.08 | 3,095 |
| 440 | 52.0 | 424 | 65 | 555 | 597 | 1.31 | 2.21 | 1.08 | 2,201 |
| 316 | 50.8 | 393 | 70 | 590 | 724 | 1.50 | 3.63 | 1.23 | 6,827 |
| 267 | 41.1 | 362 | 63 | 542 | 468 | 1.49 | 2.74 | 0.86 | -3,045 |

*Muckland

Factors from 3 PEAS FOR PROCESSING Accounts, 1965
(Arranged by acres of peas)

| Farm number | Peas grown acres | Yield per acre pounds | Labor per acre hours | Average per acre | | Net cost per ton \$ | Labor return | | Return per dollar of cost \$ | Profit on enterprise \$ |
|-------------|------------------|-----------------------|----------------------|------------------|------------|---------------------|--------------|-------------|------------------------------|-------------------------|
| | | | | Cost \$ | Returns \$ | | Per acre \$ | Per hour \$ | | |
| 221 | 254.0 | 3,648 | 15 | 199 | 241 | 108.94 | 77 | 5.16 | 1.21 | 10,641 |
| 267 | 40.0 | 5,670 | 7 | 147 | 284 | 51.67 | 165 | 23.42 | 1.94 | 5,483 |
| 424 | 14.3 | 4,064 | 5 | 146 | 153 | 67.70 | 15 | 3.10 | 1.05 | 106 |

Annual averages, all farms, weighted by acres of peas:

| | | | | | | | | | | |
|------|------------------------|-------|----|-----|-----|--------|-----|------|------|-------|
| 1965 | -----Not averaged----- | | | | | | | | | |
| 1964 | -----Not averaged----- | | | | | | | | | |
| 1963 | 66.8 | 2,663 | 13 | 161 | 159 | 120.57 | 28 | 2.19 | 0.99 | -106 |
| 1962 | 40.2 | 3,668 | 16 | 155 | 240 | 80.50 | 116 | 7.29 | 1.55 | 3,407 |
| 1961 | -----Not averaged----- | | | | | | | | | |

Factors from 4 SNAP BEANS FOR PROCESSING Accounts, 1965
(Arranged by acres of snap beans)

| Farm number | Snap beans grown acres | Yield per acre pounds | Labor per acre to grow hours | Average per acre | | Net cost per ton | Labor returns | | Return per dollar of cost | Profit on enter- prise |
|----------------|---------------------------------|--------------------------------|---------------------------------------|---------------------|---------------|---------------------------|-------------------|-------------------|------------------------------------|---------------------------------|
| | | | | Cost \$ | Returns \$ | | Per acre \$ | Per hour \$ | | |
| 221 | 1,338.0 | 3,735 | 3 | 110 | 151 | 59.18 | 59 | 7.56 | 1.37 | 54,536 |
| 170 | 141.9 | 5,276 | 9 | 173 | 246 | 65.51 | 108 | 6.15 | 1.42 | 10,411 |
| 315 | 112.8 | 2,657 | 6 | 129 | 111 | 96.98 | 7 | 0.57 | 0.86 | -1,986 |
| 267 | 20.0 | 4,835 | 4 | 186 | 217 | 77.08 | 58 | 8.50 | 1.17 | 628 |

Annual averages, all farms, weighted by acres of beans:

| | | | | | | | | | | |
|------|------------------------|-------|---|-----|-----|-------|----|------|------|--------|
| 1965 | -----Not averaged----- | | | | | | | | | |
| 1964 | 299.6 | 4,193 | 4 | 118 | 172 | 56.36 | 76 | 7.95 | 1.46 | 16,249 |
| 1963 | 250.2 | 4,418 | 4 | 115 | 166 | 51.58 | 75 | 7.18 | 1.44 | 12,730 |
| 1962 | 205.9 | 4,252 | 4 | 123 | 187 | 57.98 | 89 | 7.05 | 1.52 | 13,126 |
| 1961 | -----Not averaged----- | | | | | | | | | |

Factors from VEGETABLE Accounts, 1965
(Arranged by acres of vegetables)

| Farm number | Vege- table grown acres | Yield per acre tons | Labor per acre hours | Average per acre | | Net cost per ton \$ | Labor return | | Return per dollar of cost \$ | Profit on enter- prise \$ |
|--------------------|----------------------------------|------------------------------|-------------------------------|---------------------|---------------|---------------------------------|-------------------|-------------------|--|---------------------------------------|
| | | | | Cost \$ | Returns \$ | | Per acre \$ | Per hour \$ | | |
| <u>Beets</u> | | | | | | | | | | |
| 386* | 221.0 | 14.7 | 25 | 228 | 235 | 15.57 | 51 | 2.06 | 1.03 | 1,474 |
| 221* | 146.5 | 23.9 | 49 | 307 | 372 | 12.80 | 162 | 3.28 | 1.21 | 9,556 |
| <u>Cabbage</u> | | | | | | | | | | |
| 174** | 33.2 | 15.1 | 137 | 830 | 941 | 54.92 | 361 | 2.63 | 1.13 | 3,676 |
| 425* | 29.0 | 5.6 | 97 | 469 | 207 | 84.04 | -35 | -0.36 | 0.44 | -7,600 |
| 221* | 21.0 | 0.3 | 16 | 157 | 6 | 598.36 | -114 | -7.16 | 0.04 | -3,166 |
| <u>Cauliflower</u> | | | | | | | | | | |
| Fall | | | | | | | | | | |
| 174** | 19.8 | 503 ^x | 196 | 879 | 1,061 | 1.75 ^x | 539 | 2.75 | 1.21 | 3,602 |
| Summer | | | | | | | | | | |
| 174** | 7.9 | 737 ^x | 281 | 1,212 | 1,674 | 1.64 ^x | 974 | 3.47 | 1.38 | 3,652 |
| 440* | 3.0 | 5.3 | 239 | 718 | 387 | 134.62 | 23 | 0.10 | 0.54 | -994 |
| x 12 head crates | | | | | | | | | | |
| <u>Sweet Corn</u> | | | | | | | | | | |
| 315* | 113.5 | 1.6 | 7 | 99 | 52 | 60.41 | -32 | -4.26 | 0.52 | -5,360 |
| 174** | 96.0 | 935 ^{xx} | 42 | 326 | 353 | 0.34 ^{xx} | 104 | 2.47 | 1.08 | 2,633 |
| 267* | 95.8 | 4.2 | 5 | 99 | 134 | 23.54 | 55 | 10.93 | 1.36 | 3,395 |
| 221* | 20.0 | 1.0 | 5 | 56 | 30 | 58.58 | -13 | -2.54 | 0.53 | -520 |
| 440** | 16.7 | 359 ^{xx} | 83 | 301 | 215 | 0.84 ^{xx} | 39 | 0.47 | 0.71 | -1,435 |
| xx dozen ears | | | | | | | | | | |
| <u>Tomatoes</u> | | | | | | | | | | |
| 315* | 69.8 | 16.2 | 165 | 585 | 516 | 36.06 | 234 | 1.42 | 0.88 | -4,817 |
| 170* | 62.7 | 14.9 | 143 | 534 | 492 | 35.81 | 209 | 1.47 | 0.92 | -2,616 |
| 174** | 27.0 | 15.2 | 292 | 1,080 | 1,068 | 71.16 | 479 | 1.64 | 0.99 | -326 |

*Processing
**Fresh market

Factors from Vegetable Accounts, 1965
(Arranged by acres of vegetables)

| Farm number | Vegetable grown acres | Yield per acre bu. | Labor per acre hours | Average per acre | | Net cost per bu. \$ | Labor return | | Return per dollar of cost \$ | Profit on enterprise \$ |
|------------------|-----------------------|---------------------|----------------------|------------------|------------|-----------------------|--------------|-------------|------------------------------|-------------------------|
| | | | | Cost \$ | Returns \$ | | Per acre \$ | Per hour \$ | | |
| <u>Dry Beans</u> | | | | | | | | | | |
| 438 | 55.0 | 13 | 7 | 85 | 70 | 6.66 | -2 | -0.26 | 0.82 | -851 |
| 430 | 14.6 | 17 | 9 | 94 | 102 | 5.48 | 23 | 2.61 | 1.08 | 114 |
| <u>Cucumbers</u> | | | | | | | | | | |
| 425** | 17.9 | 81 | 81 | 251 | 128 | 3.09 | 46 | 0.57 | 0.51 | -2,208 |
| 174** | 11.6 | 353 | 179 | 864 | 1,003 | 2.45 | 464 | 2.60 | 1.16 | 1,611 |
| 417* | 10.0 | 316 | 280 | 520 | 479 | 1.65 | 322 | 1.15 | 0.92 | -406 |
| 425** | 10.0 | 102 | 71 | 184 | 210 | 1.81 | 174 | 2.46 | 1.14 | 259 |
| <u>Melons</u> | | | | | | | | | | |
| 174** | 17.5 | 262 | 127 | 716 | 609 | 2.73 | 124 | 0.98 | 0.85 | -1,878 |
| 440** | 3.0 | 117 | 249 | 786 | 585 | 6.72 | 173 | 0.69 | 0.74 | -602 |
| <u>Spinach</u> | | | | | | | | | | |
| 221* | 80.0 | 6.3 ^{xxx} | 42 | 235 | 258 | 37.16 ^{xxxx} | 99 | 2.37 | 1.10 | 1,879 |
| 174** | 24.2 | 289 | 105 | 441 | 420 | 1.52 | 170 | 1.62 | 0.95 | -507 |
| xxx tons | | | | | | | | | | |
| <u>Squash</u> | | | | | | | | | | |
| 221* | 13.0 | 20.7 ^{xxx} | 43 | 236 | 248 | 11.40 ^{xxx} | 114 | 2.63 | 1.05 | 161 |
| 174** | 10.2 | 545 | 221 | 905 | 841 | 1.56 | 338 | 1.53 | 0.93 | -652 |
| xxx tons | | | | | | | | | | |

*Processing
**Fresh market