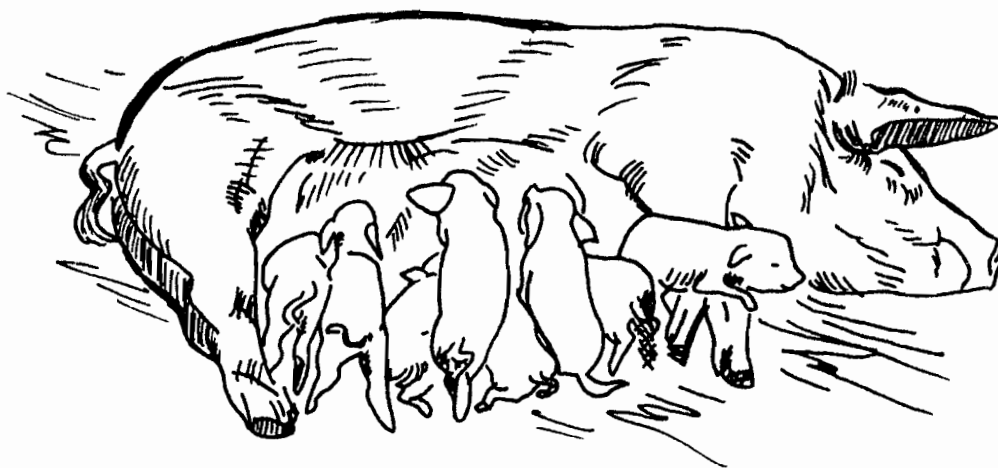
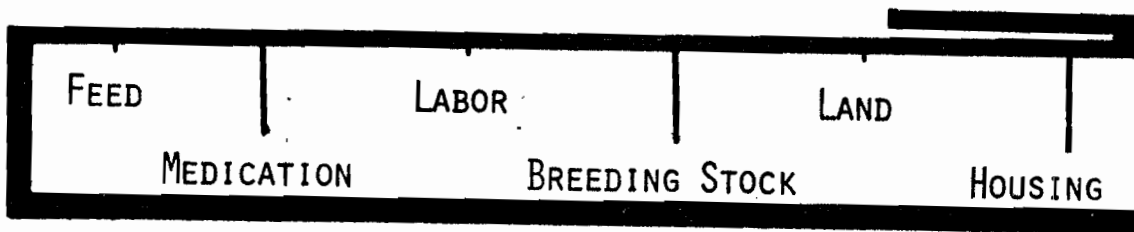


SWINE PRODUCTION COSTS



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SWINE PRODUCTION DATA - CONFINEMENT SYSTEM

FEED - INVESTMENT - COSTS

Prepared By

Robert F. Miller, Tulare County Farm Advisor

This publication contains information on the feed required, the investment necessary and the approximate costs involved in the yearly operation of a 100-sow confinement swine production unit. Under this system of production, farrowings occur year around and while land needs are small, a major investment is required for housing and facilities. A high degree of management skill is also necessary for the operation to be a success.

In this study the following assumptions were made:

1. Pigs on Hand

- a. Seventy adult sows.
- b. Thirty to thirty-five first and second litter gilts.
- c. Seven boars.
- d. Eight hundred to eight hundred fifty nursing and growing pigs.

2. Mortality

- a. Four percent on pigs up to 80 pounds.
- b. Two percent on rest of growing pigs and on the breeding herd.

3. Production Schedule

- a. 2.25 litters per sow and two litters per replacement gilt per year are produced with 715 pigs per litter being marketed or saved as replacements.
- b. Seventy percent of sows conceive on first service following weaning, 20% conceive on second service and 10% conceive on third service.

- c. Fifty percent of first and second litter gilts conceive on first service following weaning and 50% conceive on second service. First litter gilts are grown out prior to breeding.
- d. Four first litter gilts and one second litter gilt do not breed or rebreed and are sold.
- e. Thirty sows are replaced annually.
- f. Pigs are weaned at five weeks of age.

4. Feed Schedule

- a. Rations used differ slightly from the recommendations of the National Research Council. A 40% protein level in the supplement and a 9% protein level in the grain is assumed.
- b. Feed prices will vary with source, area, and year, and should be refigured accordingly.

5. Depreciation Schedule

- a. Buildings and improvements are depreciated over a 10 year period to 10% of original cost.

6. Manure Disposal and Grain Milling Systems

- a. Manure disposal and grain milling systems have to be planned according to each individual operation. Installation and operational costs will, therefore, have a wide variation. For this reason respective costs for these systems have been omitted from this study. Since these systems are a vital part of any swine operation, their costs should be added in when they can be estimated.

Swine production is a biological science and production schedules are seldom attained as projected. However, with good management and a minimum of bad luck, the above production norms can be achieved in a practical manner.

ANNUAL FEED REQUIREMENTS

| No. | Class | No. Days | Daily Ration | | Total Per Head | | Total For Class | | Other |
|------|--|------------|--------------|------------------------|----------------|-------------------|------------------|-------------------|---------------------|
| | | | Pounds Grain | Pounds Supplement | Pounds Grain | Pounds Supplement | Pounds Grain | Pounds Supplement | |
| 7 | 450-Pound Boars | 365 | 6.50 | 1.50 | 2,373 | 547 | 16,611 | 3,829 | |
| 70 | Adult Sows, Post Weaning and Pregnancy | 287 | 4.50 | 1.00 | 1,292 | 287 | 90,440 | 20,090 | |
| | Lactation | 78 | 10.00 | 2.00 | 780 | 156 | 54,600 | 10,920 | |
| 31 | Second Litter Gilts, Post Weaning and Pregnancy | 129 | 5.70 | 1.30 | 735 | 168 | 22,785 | 5,208 | |
| 30 | Lactation | 35 | 9.00 | 2.00 | 315 | 70 | 9,450 | 2,100 | |
| 35 | Replacement Gilts, Growth and Pregnancy | 166 | 5.25 | 1.25 | 871 | 207 | 30,485 | 7,245 | |
| 31 | Lactation | 35 | 8.50 | 1.90 | 298 | 66 | 9,238 | 2,046 | |
| | TOTAL | | | | 6,664 | 1,501 | 233,609 | 51,438 | |
| 218 | Litters Per Year Nursing Pigs | 35 | | (30 Pounds Per Litter) | | | | | Creep Feed 6,540 |
| 1702 | Weaners - 20-40 Pounds, .70 Pounds Daily Gain/Head | 29 | | 2.00 | | 58 | | | Starter 98,716 |
| 1668 | Market Pigs 40-80 Pounds, 1.10 Pounds Daily Gain/Head | 36 | 2.60 | .70 | 94 | 25 | 156,792 | 41,700 | |
| 1651 | Market Pigs 80-125 Pounds, 1.25 Pounds Daily Gain/Head | 36 | 3.45 | .80 | 124 | 29 | 204,724 | 47,879 | |
| 1635 | Market Pigs or Replacement Gilts 125-220 Pounds, 1.65 Pounds Daily Gain/Head | 58 | 5.70 | .90 | 331 | 52 | 541,185 | 85,020 | |
| | TOTAL | 194 | | | 549 | 164 | 902,701 | 174,599 | 105,256 |
| | Breeding Herd | | | | | | 233,609 | 51,438 | |
| | TOTAL | | | | | | 1,136,310 | 226,037 | 105,256 |

EXPENSES AND SUMMARY

| Item | Amount | Price/CWT | Cost | Amount/ Lb. Pork | Cost/ Lb. Pork | Percent of Cost |
|-----------------|-----------|-----------|-----------|---------------------|-------------------|--------------------|
| Grain | 1,136,310 | @ 5.70 | \$ 64,770 | 3.11 | 17.75 | |
| Supplement | 226,037 | @ 13.00 | 29,385 | .62 | 8.05 | |
| Starter | 98,716 | @ 8.60 | 8,490 | .27 | 2.33 | |
| Creep Feed | 6,540 | @ 14.00 | 916 | .02 | .25 | |
| Subtotal - feed | 1,467,603 | \$ 7.06 | \$103,561 | 4.02 | 28.38¢ | 67 |

| | | | | | | |
|---------------------------------------|--|--|-----------|--|--------|----|
| Labor | | | 13,000 | | 3.56 | |
| Supplies & repairs | | | 4,500 | | 1.23 | |
| Veterinarian & drugs | | | 3,500 | | .96 | |
| Utilities | | | 4,000 | | 1.10 | |
| Freight & Commission | | | 3,500 | | .96 | |
| Replacement stock | | | 600 | | .16 | |
| Auto, office & Misc. | | | 3,000 | | .82 | |
| Interest (½ cash costs/½ year @ 9.0%) | | | 3,131 | | .86 | |
| Taxes | | | 3,500 | | .96 | |
| Subtotal - other | | | \$ 38,731 | | 10.61¢ | 25 |
| TOTAL CASH COSTS | | | \$142,292 | | 38.99¢ | 92 |

| <u>INVESTMENT</u> | <u>Total</u> | <u>Interest @ 7.5%</u> | <u>Depreciation</u> |
|--------------------------|--------------|------------------------|---------------------|
| Land - five acres | 7,500 | \$ 562 | - - |
| Well and pressure system | 7,500 | 281 | 750 |
| 25-Crate farrowing house | 25,000 | 1031 | 2250 |
| Nursery | 10,000 | 412 | 900 |
| Fattening unit | 25,000 | 1031 | 2250 |
| Sow and boar pens | 10,000 | 412 | 900 |
| Breeding stock | 20,000 | 1,500 | - - |
| Total Investment | \$101,000 | \$5,229 | \$7,050 |

| <u>SUMMARY OF COSTS</u> | <u>Total Cost</u> | <u>Cost/Pound</u> | |
|---------------------------|-------------------|-------------------|-----|
| Feed | \$103,561 | 28.38¢ | 67 |
| Expenses | 38,731 | 10.61 | 25 |
| Interest and depreciation | 12,279 | 3.36 | 8 |
| TOTAL COSTS | \$154,571 | 42.35 | 100 |

| <u>TOTAL SALES - 1977 PRICES</u> | <u>Pounds</u> | <u>Amount</u> |
|--------------------------------------|---------------|---------------|
| 1600 220-Pound Pigs @ .43¢ Per Pound | 352,000 | \$151,360 |
| 1.9 400-Pound Boars @ .20¢ Per Pound | 760 | 152 |
| 28 400-Pound Sows @ .30¢ Per Pound | 11,200 | 3,360 |
| 4.9 300-Pound Gilts @ .36¢ Per Pound | 1,470 | 529 |
| Less 2 - 250-Pound Purchased Boars | 500 | |
| NET PORK PRODUCTION | 364,930 | \$155,410 |
| AVERAGE PRICE RECEIVED | | .4258 |