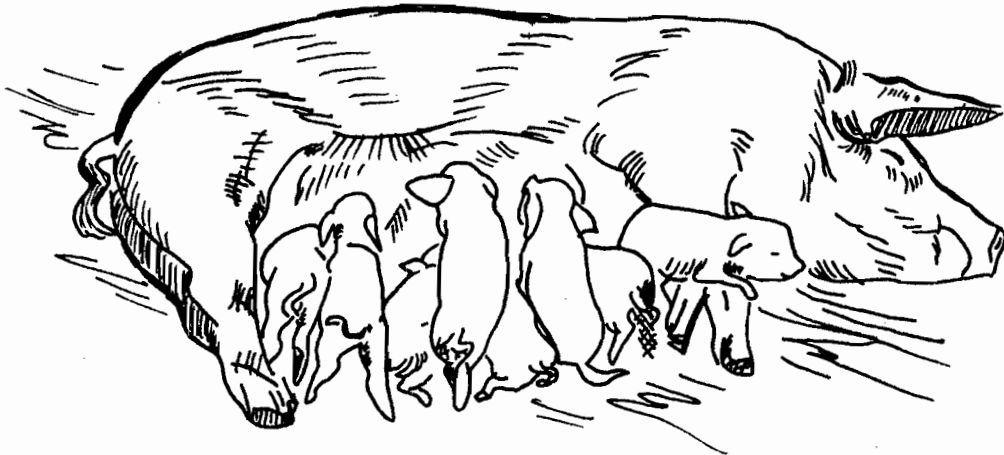
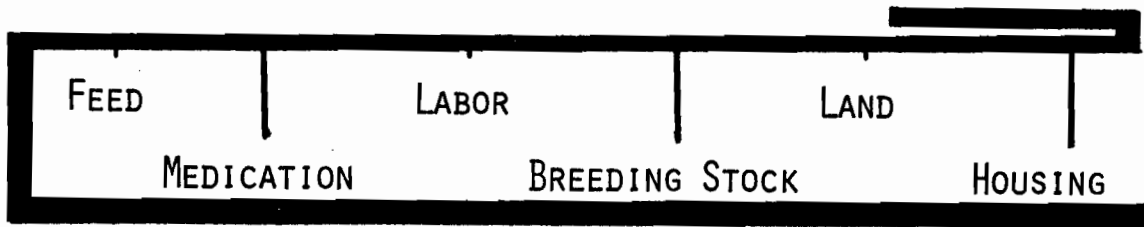


SWINE PRODUCTION COSTS



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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 7.5 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. 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	\$ 6.25	\$ 71,019	3.11	19.46	
Supplement	226,037	11.25	25,429	.62	6.97	
Starter	98,716	9.00	8,884	.27	2.43	
Creep Feed	6,540	14.00	916	.02	.25	
Subtotal - feed	1,467,603	\$ 7.26	\$106,248	4.02	29.11¢	67
Labor			12,000		3.29	
Supplies & repairs			4,500		1.23	
Veterinarian & drugs			4,000		1.10	
Utilities			3,500		.96	
Freight & Commission			3,500		.96	
Replacement stock			600		.16	
Auto, office & Misc.			4,000		1.10	
Interest (½ cash costs/½ year @ 9.5%)			3,369		.92	
Taxes			3,500		.96	
Subtotal - other			\$ 38,969		10.68¢	25
TOTAL CASH COSTS			\$145,217		39.79¢	92

<u>INVESTMENT</u>	<u>Total</u>	<u>Interest @ 7.5%</u>	<u>Depreciation</u>
Land - five acres	5,000	\$ 375	- -
Well and pressure system	5,000	187	500
25-Crate farrowing house	25,000	938	2,500
Nursery	10,000	375	1,000
Fattening unit	25,000	938	2,500
Sow and boar pens	10,000	375	1,000
Breeding stock	20,000	1,500	- -
Total Investment	\$100,000	\$4,688	\$7,500

<u>SUMMARY OF COSTS</u>	<u>Total Cost</u>	<u>Cost/Pound</u>	
Feed	\$106,248	29.11¢	67
Expenses	38,969	10.68	25
Interest and depreciation	12,188	3.34	8
TOTAL COSTS	\$157,405	43.13¢	100

<u>TOTAL SALES - 1975 PRICES</u>	<u>Pounds</u>	<u>Amount</u>
1600 220-Pound Pigs @ .47¢ Per Pound	352,000	\$165,440
1.9 400-Pound Boars @ .26¢ Per Pound	760	198
28 400-Pound Sows @ .30¢ Per Pound	11,200	3,360
4.9 300-Pound Gilts @ 40¢ Per Pound	1,470	588
Less 2 - 250-Pound Purchased Boars	500	
NET PORK PRODUCTION	364,930	\$169,586
AVERAGE PRICE RECEIVED		.4647¢

ANNUAL SUMMARY

Cost Per Pound Gain

	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>3-Year Average</u>	<u>1976</u>
Feed	29.78	30.73	27.19	29.23	29.11
Expenses	7.02	7.26	10.07	8.12	10.68
Interest and Depreciation	<u>2.13</u>	<u>2.62</u>	<u>3.34</u>	<u>2.70</u>	<u>3.34</u>
TOTAL	38.93	40.41	40.60	39.98	43.13

RETURNS

Market Pigs	39.00	36.00	51.00	42.00	47.00
Boars	20.00	20.00	30.00	23.33	26.00
Sows	28.00	24.00	34.00	28.67	30.00
Gilts	<u>33.00</u>	<u>32.00</u>	<u>40.00</u>	<u>35.00</u>	<u>40.00</u>
AVERAGE	38.60	35.46	50.53	41.53	46.47

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