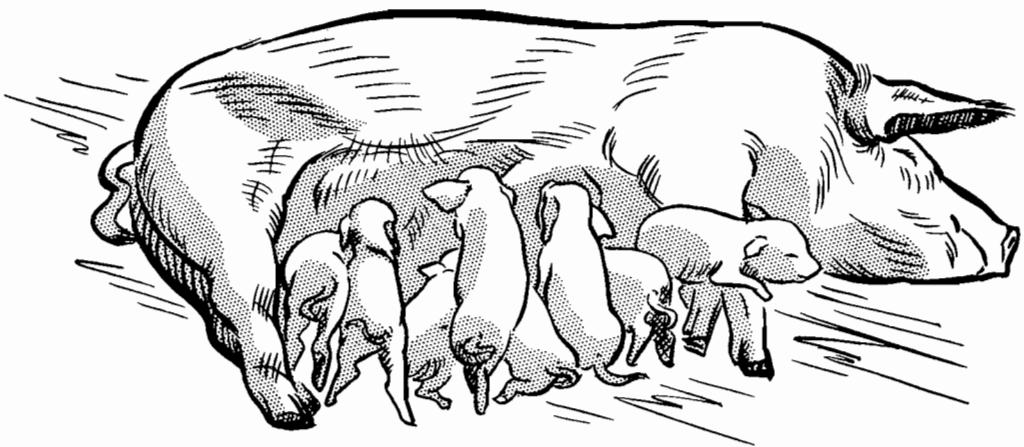


SWINE PRODUCTION COSTS



UNIVERSITY OF CALIFORNIA

AGRICULTURAL EXTENSION SERVICE

UC Cooperative Extension

Agricultural Building
County Civic Center
Visalia, California 93277
Area Code 209 - 732-5511 Ext. 469

The University of California's Agricultural Extension programs are available to all, without regard to race, color, or national origin.

SWINE PRODUCTION DATA - CONFINEMENT SYSTEM

Feed - Investment - Costs

Prepared By

Robert F. Miller - Tulare County Farm Advisor

B. B. Burlingame - Extension Farm Management Specialist

This publication contains information on the feed required, the investment necessary and the approximate costs involved in the yearly operation of a 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 35 first and second litter gilts.
 - C. Seven boars.
 - D. Eight hundred to 850 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. 2.22 litters per female per year with 7.25 pigs per litter being marketed or saved as replacement gilts.
 - B. Sixty percent of sows conceive on first service following weaning, 30% 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.
 - D. Four, first litter gilts and one second litter gilt do not breed or rebreed and are sold.
 - E. Thirty sows are replaced annually.
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. Housing Schedule

- A. Nursing pigs remain in farrowing barn until four weeks of age. They are then weaned, kept in the early weaning barn for a month and then placed in fattening pens until sold.

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 accurately estimated.

Swine production is a biological science and therefore 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.

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# Boars	365	5.80	1.20	2,117	438	14,819	3,066	
70	Adult Sows Post Weaning & Pregnancy	300	3.90	1.10	1,170	330	81,900	23,100	
	Lactation	65	10.00	2.00	650	130	45,500	9,100	
31	2nd Litter Gilts Post Weaning & Pregnancy	135	5.70	1.30	769	175	23,839	5,425	
30	Lactation	28	9.00	2.00	252	56	7,560	1,680	
35	Replacement Gilts, Growth & Pregnancy	174	5.25	1.25	913	217	31,955	7,595	
31	Lactation	28	8.50	1.90	238	53	7,378	1,643	
				Total	6,109	1,399	212,951	51,609	
222	Litters Nursing Pigs				25# per litter				creep feed 5,550
1683	Weaners - 15# to 40#, .75# daily gain/head	33		2		66.0			starter 111,078
1649	Market Pigs 40# to 80# 1.10# daily gain/head	36	2.60	.70	93.6	25.2	154,346	41,555	
1623	Market Pigs 80# to 125# 1.25# daily gain/head	36	3.45	.80	124.2	28.8	201,577	46,742	
1606	Market Pigs or Replacement Gilts 125# to 200# 1.65# daily gain/head	45	5.70	.90	256.5	40.5	411,939	65,043	
	Total Days	178		Total	474.3	160.5	767,862	153,340	116,628
				Breeding Herd			212,951	51,609	
				Total			980,813	204,949	116,628
				Waste -			49,041	10,247	5,831
				5% Required Feed			1029,854	215,196	122,459
				Total Feed					

EXPENSES

Item	Amount	Price/CWT	Cost	Amount/ Lb Pork	Cost/ Lb Pork	Percent of Cost
Grain	1,029,854	\$ 6.00	\$ 61,791	3.15	18.89¢	47.4
Supplement	215,196	13.00	27,975	.66	8.55	21.4
Starter	116,632	11.50	13,413	.36	4.10	10.3
Creep Feed	5,827	15.00	874	.02	.26	.7
Sub Total - Feed	1,367,509	\$ 7.60	\$104,053	4.19	31.82¢	79.4

Labor-2900 hours @\$3.00/Hr.			8,700		2.66	
Replacement Boars-Two @\$175 Each			350		.10	
Veterinarian and Supplies			2,200		.67	
Taxes			1,100		.34	
Interest - one-half operating capital for one-half year at 9%			2,679		.82	
Auto, office, and misc. expense			1,100		.34	
Water and electricity			800		.24	
Supplies and repairs			1,500		.46	
Sub Total - Other Cash Costs			18,429		5.63¢	14.0
TOTAL CASH COSTS			\$122,482		37.45¢	93.4

<u>Investment</u>	<u>Total</u>	<u>Interest @ 8%</u>	<u>Depreciation</u>	
Land - four acres	\$ 4,000	\$ 320	\$ - - -	
Well and pressure system	3,000	120	300	
Farrowing house - 25 crates	20,000	800	2,000	
Early weaning barn	3,000	120	300	
Fattening unit	20,000	800	2,000	
Dry sow and boar pens	4,500	180	450	
Breeding stock	15,000	1,200	- - -	
TOTAL	\$69,500	\$3,540	\$5,050	6.6

<u>SUMMARY OF COSTS</u>	<u>Cost</u>	<u>Cost/ Lb Pork</u>	
Feed	\$104,053	31.82¢	79.4
Expenses	18,429	5.63	14.0
Interest and depreciation	8,590	2.63	6.6
TOTAL	\$131,072	40.08¢	100.0

<u>TOTAL SALES</u>	<u>TOTAL POUNDS</u>
1563 Fat hogs @ 200 pounds each	312,600
1.9 Boars @ 500 pounds each	950
28 Sows @ 450 pounds each	12,600
4.9 Gilts @ 275 pounds each	1,347
	327,497
Less two boars purchased @ 250 pounds each	500
Net Pork Production	326,997

PER 100 POUNDS PORK

<u>Grain</u>	<u>Supplement</u>	<u>Other</u>	<u>Total</u>
315#	66#	38#	419#

Grateful acknowledgment is made to Gerald Steiner and Jack Shannon, Tulare County Swine Producers whose actual production data substantiated the information in this study.

Robert F. Miller
Tulare County Farm Advisor
pc

200 copies - 4/28/70
Rerun 6/25/70
Rerun 2/10/72
Revised and rerun 11/27/72
Revised and rerun 9/11/73
Rerun 10/29/73
UC Cooperative Extension