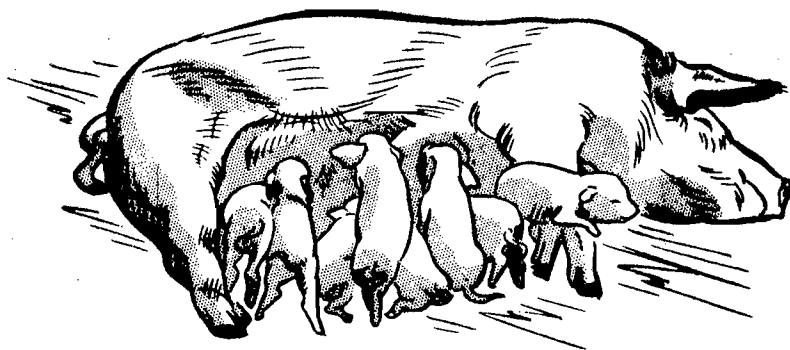


SWINE PRODUCTION COSTS

Feed	Labor	Land	
Medication	Breeding Stock	Housing	

TULARE COUNTY



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. 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.

EXPENSES AND SUMMARY

Item	Amount	Price/CWT	Cost	Amount/ Lb. Pork	Cost/ Lb. Pork	Percent of Cost
Grain	1,136,310	\$ 7.10	\$ 80,678	3.11	22.08 ¢	
Supplement	226,037	16.50	37,296	.62	10.23	
Starter	98,716	12.75	12,586	.27	3.44	
Creep Feed	6,540	17.50	1,144	.02	.35	
Subtotal - feed	1,467,603	\$ 8.97	\$131,704	4.02	36.10 ¢	66

Labor			16,000		4.38	
Supplies & repairs			6,000		1.64	
Veterinarian, Drugs & Iron			5,000		1.37	
Utilities			6,000		1.64	
Freight & Commission			7,000		1.92	
Replacement stock			1,000		.27	
Auto, Office & Misc.			3,000		.82	
Interest (½ cash costs/½ year @ 14%)			6,220		1.70	
Taxes			2,000		.54	
Subtotal - other			\$ 52,220		14.28	26

TOTAL CASH COSTS \$183,924 50.38 ¢ 92

<u>INVESTMENT</u>	<u>Total</u>	<u>Interest @ 10%</u>	<u>Depreciation</u>
Land - five acres	15,000	\$ 1,500	----
Well and pressure system	8,800	484	792
20-Crate Farrowing house	27,500	1,512	2,475
Nursery	11,000	605	990
Fattening unit	27,500	1,512	2,475
Sow and boar pens	11,000	605	990
Breeding stock	23,000	2,300	----
Total investment	\$123,800	\$ 8,518	\$7,722

<u>SUMMARY OF COST</u>	<u>Total Costs</u>	<u>Cost/Pound</u>	
Feed	\$131,704	36.10 ¢	66
Expenses	52,220	14.28	25
Interest and depreciation	16,240	4.45	8
TOTAL COSTS	\$200,164	54.83 ¢	100

<u>TOTAL SALES - 1977 PRICES</u>	<u>Pounds</u>	<u>Amount</u>
1600 220-Pound Pigs @ 43.50 Per Pound	352,000	\$153,120
1.9 400-Pound Boars @ 26.50 Per Pound	760	201
28 400-Pound Sows @ 33.00 Per Pound	11,200	3,696
4.9 300-Pound Gilts @ 37.50 Per Pound	1,470	551
Less 2 - 250-Pound Purchased Boars	500	
NET PORK PRODUCTION	364,930	157,568
AVERAGE PRICED RECEIVED		43.18¢

ANNUAL SUMMARY

Cost Per Pound Gain

	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>3-YEAR AVERAGE</u>	<u>1980</u>
Feed	28.38	26.71	32.91	29.33	36.10
Expenses	10.61	11.88	12.28	11.59	14.28
Interest & Depreciation	3.49	3.72	4.45	3.89	4.45
	<u>42.28</u>	<u>42.31</u>	<u>49.64</u>	<u>44.81</u>	<u>54.83</u>

RETURNS

Market Pigs	43.00	51.00	47.40	47.13	43.50
Boars	20.00	25.00	28.00	24.33	26.50
Sows	30.00	40.00	36.00	35.33	33.00
Gilts	36.00	45.00	41.00	40.67	37.50
AVERAGE	<u>42.58</u>	<u>50.65</u>	<u>47.04</u>	<u>46.76</u>	<u>43.18</u>

Robert F. Miller
Tulare County Farm Advisor

ar

3/81 Revised

100c

The University of California Cooperative Extension in compliance with the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, and the Rehabilitation Act of 1973, does not discriminate on the basis of race, creed, religion, color, national origin, sex, or mental or physical handicap in any of its programs or activities. Inquiries regarding this policy may be directed to: Affirmative Action Officer, 317 University Hall, University of California, Berkeley, California 94720, (415) 842-0903.

AGRICULTURAL BUILDING, COUNTY CIVIC CENTER, WOODLAND AND MAIN STREETS, VISALIA, CALIFORNIA 93291 - TELEPHONE (209) 733-6363

Cooperative Extension Work in Agriculture and Home Economics, U. S. Department of Agriculture, University of California, Tulare County Cooperating

COST AND RETURNS SUMMARY FOR SWINE
SWINE PRODUCTION
BY BOB MILLER, FARM ADVISOR - LIVESTOCK & LYNN HOREL, SRA
TULARE CO. 1981

BUDGET RECORD NUMBER 441

ITEM	WEIGHT EACH	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST	YOUR COST
1. GROSS RECEIPTS						
PIGS	220.00	LBS.	0.435	1600.000	153120.00	
BOAR	400.00	LBS.	0.265	2.000	212.00	
SOW	400.00	LBS.	0.330	30.000	3960.00	
GILT	300.00	LBS.	0.375	5.000	562.50	
TOTAL					157854.50	
GROSS INCOME PER LBS.						0.4309
2. VARIABLE COSTS						
FEEED COSTS						
GRAIN		CWT.	7.100	11364.000	80684.40	
PROTEIN SUPPLE.		CWT.	16.500	2256.000	37224.00	
STARTER		CWT.	12.750	984.000	12546.00	
CREEP FEED		CWT.	17.500	60.000	1050.00	
TOTAL FEED COST					131504.40	
OTHER COSTS						
HIRED LABOR		NO.	1334.000	12.000	16008.00	
MISCL SUPPLIES		SOW	60.000	100.000	6000.00	
VET & MED.		SOW	50.000	100.000	5000.00	
UTILITIES		SOW	60.000	100.000	6000.00	
FREIGHT & COMM.		SOW	70.000	100.000	7000.00	
REPLACEMENT SWIN		SOW	500.000	2.000	1000.00	
EQUIPMENT (FUEL-LUBE-REP)		DOL.			108.38	
INTEREST ON OPER. CAP.		DOL.	0.14000	2397.51	335.65	
TOTAL VARIABLE COSTS					172956.43	
VAR. COST PER LBS.						0.4722
3. INCOME ABOVE OPERATING COSTS					-15101.93	
INCOME PER LBS.						-0.0412
4. OVERHEAD						
REAL PROPERTY TAXES					1148.00	
MISC. OFFICE & BOOKKEEPING (1.7% OF VARIABLE COSTS)					2940.26	
TOTAL OVERHEAD					4088.26	
OVERHEAD COST PER LBS.						0.0112
TOTAL CASH EXPENSE					177044.69	
CASH EXPENSE PER LBS.						0.4833
5. INCOME ABOVE CASH COSTS					-19190.19	
INCOME PER LBS.						-0.0524
6. FIXED COSTS						
CAPITAL & INTEREST						
INT. ON LIVESTOCK CAPITAL		DOL.	0.14000	23128.00	3237.92	
INT. ON EQUIPMENT CAPITAL		DOL.	0.13000	56782.50	7381.72	
INT. ON FARMSTEAD		DOL.	0.13000	15000.00	1950.00	
TOTAL INTEREST					12569.64	
DEPRECIATION						
DEPR. ON EQUIPMENT		DOL.			7102.81	
TOTAL DEPRECIATION					7102.81	
TOTAL FIXED COSTS					19672.45	
FIXED COSTS PER LBS.						0.0537
7. TOTAL COSTS					196717.15	
TOTAL COST PER LBS.						0.5370
8. NET RETURNS					-38862.65	
NET RETURNS PER LBS.						-0.1061

100 SOW CONFINEMENT SYSTEM 7.5 PIGS MARKETED PER LITTER

4% PIG MORTALITY RATE

35 GILTS HELD FOR REPLACEMENTS

DATE PRINTED: 12/04/81

CYCLE LENGTH(MOS.): 6

UPDATED 12/04/81
 PRODUCTION UNIT 366300.00 LBS.

CASH FLOW & INVESTMENT SUMMARY FOR SWINE

BUDGET RECORD NUMBER 441

SWINE PRODUCTION
BY BOB MILLER, FARM ADVISOR - LIVESTOCK & LYNN HOREL, SRA
TULARE CO. 1981

MONTHLY SUMMARY OF RECEIPTS AND EXPENSES

YEAR UNIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TOTAL RECEIPTS 1 DOL.	13316.	13316.	13316.	13296.	13296.	12818.	12818.	12818.	12811.	13422.	13316.	13316.
OPERATING INPUTS:												
GRAIN 1 DOL.	6724.	6724.	6724.	6724.	6724.	6724.	6724.	6724.	6724.	6724.	6724.	6724.
PROTEIN SUPPLE. 1 DOL.	3102.	3102.	3102.	3102.	3102.	3102.	3102.	3102.	3102.	3102.	3102.	3102.
STARTER 1 DOL.	1045.	1045.	1045.	1045.	1045.	1045.	1045.	1045.	1045.	1045.	1045.	1045.
CREEP FEED 1 DOL.	88.	88.	88.	88.	88.	88.	88.	88.	88.	88.	88.	88.
Hired LABOR 1 DOL.	1334.	1334.	1334.	1334.	1334.	1334.	1334.	1334.	1334.	1334.	1334.	1334.
MISCL SUPPLIES 1 DOL.	498.	498.	504.	498.	504.	498.	504.	498.	504.	498.	498.	498.
VET & MED. 1 DOL.	415.	415.	420.	415.	420.	415.	420.	415.	420.	415.	415.	415.
UTILITIES 1 DOL.	498.	498.	504.	498.	504.	498.	504.	498.	504.	498.	498.	498.
FREIGHT & COMM. 1 DOL.	581.	581.	581.	581.	588.	581.	588.	588.	588.	581.	581.	581.
REPLACEMENT SWIN 1 DOL.	0.	0.	0.	500.	0.	0.	0.	0.	0.	500.	0.	0.
EQUIP REPAIR COST 1 DOL.	9.	9.	9.	9.	9.	9.	9.	9.	9.	9.	9.	9.
INT. ON OPER CAP. 1 DOL.	168.	168.	168.	168.	168.	168.	168.	168.	168.	168.	168.	168.
*** TOTALS OF THE ABOVE ITEMS ARE LISTED IN THE VARIABLE COST SECTION ON THE REVERSE SIDE ***												
COST 1 DOL.	14462.	14462.	14479.	14962.	14486.	14462.	14486.	14469.	14486.	14962.	14462.	14462.

LABOR USE SUMMARY
LIVESTOCK INVESTMENT AND COST SUMMARY

NAME	UNIT	SIZE	INVESTMENT		TOTAL VALUE	COST SUMMARY				FUEL & LUBE	REPAIRS	TOTAL OP COSTS
			PURCH PRICE	NO. IN BUDGET		DEPR.	INTEREST	INS/TAXES	TOTAL OWNERSHIP			
EQUIPMENT												
WATER SYSTEM MED	EACH	1.	8800.	1.0	8800.00	1257.14	572.00	88.00	1917.14	0.00	12.57	12.57
FARROW HSE	SOW	25.	27500.	1.0	27500.00	1283.33	2323.75	275.00	3882.08	0.00	18.33	18.33
NURSERY UNIT	SQFT	950.	12000.	1.0	12000.00	1080.00	858.00	120.00	2058.00	0.00	12.00	12.00
CONF FAT U	SQFT	2400.	27500.	1.0	27500.00	1650.00	1966.25	275.00	3891.25	0.00	18.33	18.33
SOW - BOAR PENS	HEAD	10.	11000.	1.0	11000.00	660.00	786.50	110.00	1556.50	0.00	7.33	7.33
SCALE	TON	5.	5000.	1.0	5000.00	333.33	325.00	50.00	708.33	0.00	33.33	33.33
SR SHOP EQUIP	EACH	1.	2000.	1.0	2000.00	271.43	136.50	20.00	427.93	0.00	2.86	2.86
CLEANING EQUIP	EACH	1.	2000.	1.0	2000.00	285.71	130.00	20.00	435.71	0.00	0.26	0.26
VETERINARY EQUIP	EACH	1.	500.	1.0	500.00	67.86	34.12	5.00	106.98	0.00	0.71	0.71
STORAGE BINS NET	TON	5.	1100.	1.0	1100.00	22.00	85.80	11.00	118.80	0.00	0.55	0.55
SUPL BINS RD NET	TON	4.	600.	1.0	600.00	12.00	46.80	6.00	64.80	0.00	0.30	0.30
LAGOON 100 SOW	EACH	1.	1800.	1.0	1800.00	180.00	117.00	18.00	315.00	0.00	1.80	1.80
LIVESTOCK												
SOWS	LBS.	400.	224.	70.	15680.00	0.00	2195.20	0.00	2195.20			
REPLANT GILTS	LBS.	200.	168.	35.	5880.00	0.00	823.20	0.00	823.20			
BOARS	LBS.	450.	224.	7.	1568.00	0.00	219.52	0.00	219.52			
MACHINERY >> NONE IN BUDGET <<												
LAND												
FARMSTEAD	ACRE		3000.00	5.0	15000.00		1950.00	150.00	2100.00			
TOTALS					137928.00	7102.81	12569.64	1148.00	20820.45	0.00	108.38	108.38

TOTAL PER LBS. 0.37654 0.0194 0.0343 0.0031 0.0568 0.0000 0.0003 0.0003

100 SOW CONFINEMENT SYSTEM 7.5 PIGS MARKETING PER LITTER

4% PIG MORTALITY RATE

35 GILTS HELD FOR REPLACEMENTS

UPDATED 12/04/81

DATE PRINTED: 12/04/81

STORED DATA PAGE (NO CALCULATIONS) FOR SWINE

BUDGET RECORD NUMBER 441

SWINE PRODUCTION BY BOB MILLER, FARM ADVISOR - LIVESTOCK & LYNN HOREL, SRA TULARE CO. 1981

COSTS AND RETURNS WILL BE DIVIDED BY 366300.0 LBS. TO OBTAIN PER LBS. COSTS

Table with columns: LINE, PRODUCTION, 1-18 (MONTHS), PRICE, WEIGHT, UNIT, ITEM CODE, TYPE, YEAR. Rows include 1 PIGS, 2 BOAR, 3 SOW, 4 GILT, 11 GRAIN, 12 PROTEIN SUPPLE., 13 STARTER, 14 CREEP FEED, 16 HIRED LABOR, 17 MISCL SUPPLIES, 18 VET & MED., 19 UTILITIES, 20 FREIGHT & COMM., 21 REPLACEMENT SWIN.

Table with columns: MACHINERY REQUIREMENTS, TIMES OVER, A CREW LABOR, POWER UNIT, MACH CODE, TYPE, YEAR. Row: NONE STORED WITH BUDGET

Table with columns: EQUIPMENT REQUIREMENTS, NUMBER UNITS, PROPORT OF COST, XXX EQUIP CODE, TYPE, XXXX. Rows include 53 WATER SYSTEM MED, 54 CNTRL FARROW HSE, 55 PIG NURSERY UNIT, 54 CONF FAT U, 55 SOW - BOAR PENS, 59 SCALE, 60 SA SHOP EQUIP, 61 CLEANING EQUIP, 62 VETERINARY EQUIP, 65 STORAGE BINS NET, 66 SUPL BINS RD NET, 67 LAGOON 100 SOW.

Table with columns: LIVESTOCK INVESTMENT, 56 SOWS, 57 REPLANT GILTS, 58 BOARS, 70.000, 35.000, 7.000, 1.000, 1.000, 1.000, 0., 86., 87., 85., 5., 5., 5., 0., 0., 0.

Table with columns: LAND REQUIREMENTS, COLUMNS --->, 2 CHARGE METHOD, 3 PAST NAME, 4 NUMBER OF ACRES, 5 VALUE OR COST/ACRE, 6 TAXES PER ACRE. Row: 71 FARASTEAD

ENTERPRISE 1-61 REGION/COUNTY 54 UNASSIGNED 00 INTEREST METHOD 2 UNASSIGNED 00 MACHINE COMP. 10 UNASSIGNED 01 EQUIPMENT SET 4 SALE NO./CYCLE LENGTH 6

100 SOW CONFINEMENT SYSTEM 7.5 PIGS MARKETED PER LITTER 4% PIG MORTALITY RATE 35 GILTS HELD FOR REPLACEMENTS

UPDATED 12/04/81 MACHINERY COMPLEMENT 10 EQUIPMENT COMPLEMENT 4

Table with columns: LINE CHANGE, GENERAL MARE CHANGE, EQUIP MARE CHANGE, LINE CHANGE, LINE CHANGE, LINE CHANGE, LINE CHANGE, LINE CHANGE. Rows include 186 STARTER, 478 FREIGHT & COMM., 25 SOW - BOAR PENS, 187 CREEP FEED, 71 REPLACEMENT SWIN, 448 LIVESTOCK TAXES, 111 GRAIN.

Table with columns: PARAMETER CHGS, RW CL, VALUE. Rows include 86. 2. 400.000000, 86. 5. 224.000000, 86. 6. 224.000000, 87. 5. 168.000000, 87. 6. 168.000000, 85. 5. 224.000000, 35. 5. 27500.000000, 35. 6. 27500.000000, 25. 2. 10.000000, 25. 3. 1.000000, 25. 5. 11000.000000, 94. 5. 8800.000000, 94. 6. 8800.000000, 14. 5. 27500.000000, 14. 6. 27500.000000, 6. 0.140000, 26. 0.130000, 16. 0.000000, 28. 0.017000, 13. 0.000000.