

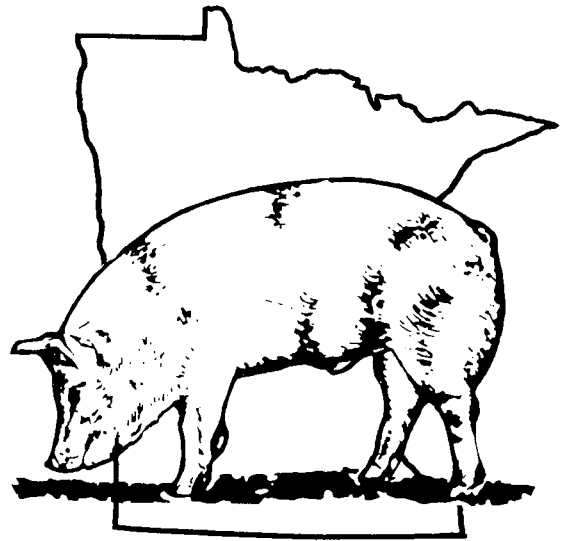
UNIVERSITY OF MINNESOTA



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Hog Producers

PLANNING GUIDE



Should I Produce Hogs

Hog production fits well on most Minnesota farms.

The feeder pig production enterprise fits on smaller farms where labor is plentiful relative to feed grains.

The other half of the hog production program -- finishing feeder pigs -- fits well on farms where feed grains are surplus but labor for farrowing is limited.

The complete hog program fits well on most all intermediate size farms where feed grains are available and the operator has an interest in hog production.

PLANNING INFORMATION

The tables on the next three pages show expected feed requirements, operating costs and building investment costs for the above three different type of hog programs. Prices and profits will vary by years but we suggest a planning price of \$27 to \$30 for market hogs for the remainder of the seventies.

Paul Hasbargen, Richard Hawkins and Norlin Hein
Extension Economists in Farm Management
Department of Agricultural Economics

Jerry Hawton and Ray Arthaud
Extension Animal Husbandmen
Department of Animal Science

Agricultural Extension Service
Department of Agricultural Economics
UNIVERSITY OF MINNESOTA
U.S. Department of Agriculture

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TABLE 1. COMPLETE HOG PROGRAM - Sow and Two Litters to Market (230 Pounds)

	<u>Sow - 2 Litters</u>	<u>Per Cwt. Produced</u>	<u>My Figures</u>
<u>Value Produced</u>			
14 Pigs - 230# @ \$28/cwt.	\$901.60		
1 Sow - 400# @ \$24/cwt.	<u>96.00</u>		
Total (3,620 lbs.)	997.60	\$ 27.56	_____
<u>Feed Requirements and Costs</u>			
Corn @ \$1.40/bu. 230 bu.	322.00	356 lbs. 8.89	
Supplement @ \$9.50/cwt. 2,400 lbs.	<u>228.00</u>	<u>66 lbs. 6.30</u>	
Total Feed	550.00	422 lbs. 15.19	_____
<u>Operating Costs</u>			
Interest	19.50	.53	
Marketing	36.20	1.00	
Breeding	7.50	.20	
Health	18.00	.50	
Electricity and fuel	10.00	.28	
Grind and mix	23.00	.64	
Equipment repair	10.00	.28	
Miscellaneous supplies	<u>6.75</u>	<u>.19</u>	
Total Operating	130.95	3.62	_____
Total Feed and Operating	680.95	18.81	_____
Return for Labor & Facilities	316.65	8.75	_____

BUILDING COST ESTIMATES

<u>Use</u>	<u>Type of Building</u>	<u>Unit Size</u>	<u>Cost Per Unit Capacity</u>
Farrowing	Individual on pasture (1 litter)	10 sows	\$100 per sow
	Solid floor - crates	20 sows	\$400 per sow
	Slotted floor - crates	20 sows	\$600 per sow
Sow Maintenance	Portable on pasture	10 sows	\$ 50 per sow
	Open shelter - drylot	20 sows	\$ 60 per sow
	Open shelter - partial slot	20 sows	\$120 per sow
	Enclosed - total slot	20 sows	\$200 per sow
Nursery	Open shelter - drylot	200 weanlings	\$ 15 per pig
	Enclosed - total slot	200 weanlings	\$ 25 per pig
Finishing	Portable on pasture	100 market hogs	\$ 15 per hog
	Open shelter - drylot	200 market hogs	\$ 20 per hog
	Open shelter - partial slot	200 market hogs	\$ 30 per hog
	Enclosed - total slot	200 market hogs	\$ 45 per hog

TABLE 2. FEEDER PIG PRODUCTION - Sow and Two Litters to Weaning -
Keep Sow for Four Litters

	<u>Sow - 2 Litters</u>	<u>Per Feeder Pig</u>	<u>My Figures</u>
<u>Value Produced</u>			
15.5 Pigs @ \$24/head	\$372.00	\$ 24.00	
.5 Sow - 450# @ \$24/cwt.	<u>54.00</u>	<u>3.48</u>	
Total	426.00	27.48	_____
<u>Feed Requirements and Costs</u>			
Corn @ \$1.40/bu. 60 bu.	84.00	3.9 bu. 5.42	
Supplement @ \$9.50/cwt. 800 lbs.	<u>76.00</u>	52 lbs. <u>4.90</u>	
Total Feed	160.00	10.32	_____
<u>Operating Costs</u>			
Interest	10.50	.68	
Marketing	17.75	1.15	
Breeding	7.50	.48	
Health	12.00	.78	
Electricity and fuel	7.50	.48	
Grind and mix	7.50	.48	
Equipment repair	3.75	.24	
Miscellaneous supplies	<u>4.50</u>	<u>.29</u>	
Total Operating	71.00	4.58	_____
Total Feed and Operating	231.00	14.90	_____
Return for Labor and Facilities	195.00	12.58	_____

SPACE REQUIREMENT ESTIMATES ^{1/}

Weight of Pig	Total Space Per Pig (sq. ft.) ^{2/}	
	Slotted floors (partial or total)	Solid floors (no slats)
25 to 40 lbs.	3	4
41 to 100 lbs.	4	6
101 to 150 lbs.	6	8
151 to 230 lbs.	8	11
Sows	15	20

^{1/} Jensen, et al. found these space requirements conducive to maximum gains. Somewhat less space would be more economical.

^{2/} Free floor space, excluding space for feeders and waterers.

TABLE 3. FINISHING FEEDER PIGS - One Pig from 40 to 230 Pounds

	<u>Head</u>	<u>Cwt. Gain</u>	<u>My Figures</u>
<u>Performance</u>			
Total gain, lbs.	190.00		
Pounds feed per pound of gain	3.91		
Average daily gain, lbs.	1.61		
<u>Value Produced</u>			
Sale value at \$28/cwt.	\$64.40		
Purchase cost at \$24/head	24.00		
Gross Margin	40.40	\$21.26	_____
<u>Feed Requirements and Costs</u>			
Corn - 11.30 bu. @ \$1.40	15.82	8.33	
Prosup 40% - 1.10 cwt. @ \$9.50	10.45	5.50	
(min, vit, antib. included in prot. sup.)			
Total Feed Cost	26.27	13.83	_____
<u>Operating Costs</u>			
Interest on animals (8.0%)62	.33	
Death loss (4.0%)	1.03	.54	
Selling and buying costs	3.30	1.74	
Other operating costs	2.50	1.31	
Total Operating Costs	7.45	3.92	_____
Total Feed and Operating Costs	33.72	17.75	_____
Budgeted Return for Labor and Facilities	6.68	3.51	_____

Return Per Head for Labor and Facilities at Different Hog Prices (Corn at \$1.40 per bu.)

<u>Selling Price</u> <u>Per Cwt.</u>	<u>When Purchase Cost Is:</u>				
	<u>\$20.00</u>	<u>\$24.00</u>	<u>\$28.00</u>	<u>\$32.00</u>	<u>\$36.00</u>
\$24.00	1.75	-2.52	-6.78	-11.05	-15.32
26.00	6.35	2.08	-2.18	-6.45	-10.72
28.00	10.95	6.68	2.42	-1.85	-6.12
30.00	15.55	11.28	7.02	2.75	-1.52
32.00	20.15	15.88	11.62	7.35	3.08
34.00	24.75	20.48	16.22	11.95	7.68
36.00	29.35	25.08	20.82	16.55	12.28
38.00	33.95	29.68	25.42	21.15	16.88
40.00	38.55	34.28	30.02	25.75	21.48
42.00	43.15	33.88	34.62	30.35	26.08

Break Even Selling Prices to Cover Feed, Operating and \$6.50 Return for Labor and Facilities

<u>Purchase</u> <u>Price/Head</u>	<u>When Corn Price Per Bushel Is:</u>				
	<u>\$ 1.20</u>	<u>\$ 1.40</u>	<u>\$ 1.60</u>	<u>\$ 1.80</u>	<u>\$ 2.00</u>
\$20.00	25.09	26.06	27.05	28.03	29.01
24.00	26.94	27.92	28.90	29.89	30.87
28.00	28.79	29.78	30.76	31.74	32.72
32.00	30.65	31.63	32.61	33.60	34.58
36.00	32.50	33.49	34.47	35.45	36.43