Guidelines For Estimating Swine Hoop Shelter Finishing Costs

Based on marketing 11,527 pigs sold from 18 shelters

Date: March, 2006

This publication is intended to provide a format and a set of guidelines for determining the costs of production of a hoop shelter housing system for a finishing (23-113 kg) enterprise. The assumptions on which the costs are based are outlined in the supporting pages. Productivity and performance assumptions are based on information collected by department specialists, feed companies and other organizations. Adjustments will be necessary where individual productivity and performance levels differ from those listed.

A hoop shelter is a Quonset-shaped building with sidewalls made from wood planks and posts. Steel arches are fastened to the posts to form a hooped roof, which is covered by a UV resistant tarp (See Figure 1, Page 16). Most hoop structures have a deep-bedded earthen floor except for a concrete pad section containing the feed bin and waterer (See Figure 2, Page 16). These naturally ventilated structures are often sited in an east-west orientation in Manitoba to take advantage of our prevailing wind conditions.

Hoop shelters have been used for several years in Manitoba and have potential benefits for pigs and producers including: 1) they are low capital (fixed) cost facilities; 2) they are flexible, practical and can be used or adapted for other purposes; 3) hoop shelters provide an environment for pigs with bedding (usually straw) and allow for group interactions among pigs, and; 4) hoop shelters provide a working environment with lower levels of manure gases and a solid (straw based) manure handling system.

Disclaimer: This budget is only a guide and is not intended as an in depth study of the cost of production of this industry. Interpretation and utilization of this information is the responsibility of the user. If you require assistance with developing your individual budget, please contact your local MAFRI office.

Swine Hoop Shelter Finishing Cost of Production

The following 23-113 kg hoop budget is based on the assumption that **all feed rations are home mixed**. The budget also includes a land investment cost based on the assumption that 160 acres would be required for this size operation, with 140 acres rented out at \$25 per acre.

The budget includes an assumption that 1.5% of the market pigs are sold as lightweight pigs. It is assumed that when the lightweight pigs are sold, they will have a salvage value. Therefore, total marketing's are reduced by 1% to compensate for the lightweight pigs.

The budget also includes an assumption that this particular hoop shelter operation is "all-in, all-out" by shelter. Each shelter is designed to house 250 growing/finishing pigs. The budget includes an assumption that five hundred (500) pigs will be delivered on site every two weeks. This will provide enough 23-kg pigs to fill two shelters at a time. Marketing of pigs will also be completed on a two to three week schedule. Once the market pigs are all removed from a shelter, the manure pack is cleaned out and the shelter is re-strawed with 12 to 15 large (700 kg) round or square bales. A producer can expect to finish three batches (cycles) of pigs per year per hoop shelter.

The suggested space allocation for finishing pigs in a hoop shelter is 1.1 square metres (12 square feet) per pig.

The rations illustrated in this budget are examples only. Individual farm conditions should be taken into account when formulating the diets. Producers need to know the feed intakes of their animals. Pigs will consume approximately 10% more feed in a hoop shelter than in a confinement system during the winter (1 batch), whereas feed intakes will be approximately the same as in a confinement system for the remainder of the year (2 batches). Please consult with a nutritionist for diet information suggestions.

The Manitoba pork production industry profile is changing and this budget was specifically designed to address the need of producers who may want to analyze the cost of starting up or switching to a hoop shelter 23-113 kg finishing operation. Several companies are offering contracts with varying levels of guarantees. Producers need to accurately calculate their costs before they can properly make a decision.

Swine Hoop Shelter Finishing Costs Summary March, 2006

A. Operating Costs 1. Feed Costs: 1.01 Starter 1.02 Grower 1.03 Finisher Total Feed Cost	\$/Pig <u>Sold</u> \$13.16 \$16.23 <u>\$18.45</u> \$47.84	Total <u>Cost</u> \$151,703 \$187,021 <u>\$212,674</u> \$551,398	Your <u>Cost</u>
	• • • • • •	,	
2. Other Operating Costs:	¢ 50.00	¢F0700F	
2.01 Weanling Cost	\$50.98	\$587,625	<u> </u>
2.02 Straw	\$2.48	\$28,543	
2.03 Veterinary Medicine & Supplies	\$1.65	\$19,000	
2.04 Maintenance & Repairs	\$0.52	\$6,049	
2.05 Hydro & Propane	\$0.09	\$1,000	
2.06 Insurance	\$0.90	\$10,389	<u> </u>
2.07 Manure Costs	\$2.86	\$33,000	
2.08 Office Supplies	\$0.10	\$1,185	
2.09 Marketing & Transport	\$8.37	\$96,477	
2.10 Property Tax	\$0.09	<u>\$1,000</u>	
Subtotal Operating Costs	\$115.88	\$1,335,666	
2.11 Interest on Operating Costs	<u>\$1.67</u>	<u>\$19,286</u>	
Total Operating Costs	\$117.55	\$1,354,952	
B. Fixed Costs 3. Depreciation:			
3.01 Buildings & Manure Storage	\$2.91	\$33,487	
3.02 Equipment	<u>\$1.66</u>	\$19,157	
Total Depreciation Cost	\$4.57	\$52,644	
	•	<i> </i>	
4. Investment:			
4.01 Land	\$0.14	\$1,600	
4.02 Buildings & Manure Storage	\$0.58	\$6,697	
4.03 Equipment	\$0.41	\$4,730	
Total Investment Cost	<u>\$1.13</u>	<u>\$11,427</u>	
Total Fixed Costs	\$5.70	\$64,071	
C. Labour			
Wages, benefits and hired manager	\$4.17	\$48,048	
Total Cost of Production	\$127.42	\$1,467,071	
Break-Even Price (carcass) ¹	<u>\$/100 kg</u>	<u>\$/cwt</u>	
Operating Cost	\$119.41	\$54.16	
Operating & Labour Cost	\$123.64	\$56.08	
Operating, Labour & Fixed Cost	\$129.43	\$58.71	
¹ Break-even Price = Cost per Hog Sold ÷ (Slaughter Weigh	it (-shrink) x Dre	essing Percentage	x Index)

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Swine Hoop Shelter Finishing Production Cost Assumptions

- 1. This input table outlines the cost of production for a finishing enterprise.
- 2. Buildings and equipment are valued at new cost.
- 3. Purchased feed is used.
- 4. Manure haulage is contracted out.
- 5. Livestock values are based on a market price for pork of:

		\$127.00	/100 kg	110	Market Index
	or:	\$0.5761	/lb	80	% Dress
	Premiur	n/head	\$2.00		
Indicators of Productivity					
		<u>Starter</u>	Grower	<u>Finish</u>	<u>Total</u>
Number of Pigs Purchased Annually		12000	11880	11761	12000
Average Beginning Weight (kg)		23	50	80	23
Average Ending Weight (kg)		50	80	113	113
Percent Mortality		1.0	1.0	1.0	3.0
Days on Feed		36	30	45	111
Feed Conversion Ratio		2.60	3.20	3.60	3.17
Number of Pigs (Ending)		11880	11761	11643	11643
Weight Gain/Pig (kg)		27.0	30.0	33.0	90.0
Feed Disappearance/Pig (kg)		70.2	96.0	118.8	285.0
Average Daily Gain (kg)		0.750	1.000	0.733	0.811
Average Number Pigs in Shelters		3991	3951	3911	3951
Productivity Profile		Total			
Pigs Purchased		12,000			
Pigs Died		360	3.0	% mortality	
Pigs available for marketing		11,643			
Less Light Weight Pig Adjustment		116	1.00	%	
Pigs Sold at full market value		11,527			
Washing and restocking days		11			
Total Days to Market		122			
Turnover (365 / days to market)		2.99			
Pigs per shelter		250			
Shelters required (1 extra for overflow	/s)	18			

Feed Requirements and Costs

		R	ation Cost	
FCR *	kg/pig	Purchased	Home	e-Mixed
2.60	70.2	\$0.00	\$180.08	/tonne
3.20	96.0	\$0.00	\$162.34	/tonne
3.60	118.8	\$0.00	\$149.18	/tonne
	2.60 3.20	2.60 70.2 3.20 96.0	FCR * kg/pig Purchased 2.60 70.2 \$0.00 3.20 96.0 \$0.00	FCR * kg/pig Purchased Home 2.60 70.2 \$0.00 \$180.08 3.20 96.0 \$0.00 \$162.34

Labour

Total Hours per year	66.0	hours/week	3,432	hours/year
Wage (includes hired manager)	\$14.00	/hour		

Capital Investment¹

Based on 4,250 Pig Places

			<u>Total</u>	/Pig Place	Your Cost
Buildings					
Shelters	18 @	\$17,576	\$316,368	\$74.44	
Office & Loading	200 ft. ²	\$27.50	\$5,500	\$1.29	
Standby Generator			\$3,000	\$0.71	
Feed Mill (building only)			<u>\$10,000</u>	<u>\$2.35</u>	
Total Building Cost			\$334,868	\$78.79	
Equipment					
Skid Steer loader			\$20,000	\$4.71	
Tractor			\$50,000	\$11.76	
Snow Blower			\$3,000	\$0.71	
Auto sorter (4 @ \$8,000)			\$32,000	\$7.53	
Storage Bins			\$30,000	\$7.06	
Feed Mill (equipment only)			<u>\$80,000</u>	<u>\$18.82</u>	
Total Equipment Cost			<u>\$215,000</u>	<u>\$50.59</u>	
Total Buildings and Equipme	nt Cost		\$549,868	\$129.38	
Land Value					
Land Investment 20 acr Rental Income	es @	\$500	\$10,000	\$2.35	
Other Costs					
Site preparation (includes man	ure storage)		\$30,000	\$7.06	
Manure Storage			<u>\$0</u>	<u>\$0.00</u>	
Total Other Costs			\$30,000	\$7.06	
Total Capital Investment			\$589,868	\$138.79	

Feed Ingredient Costs

	Price/tonne	Your Cost
Wheat	\$135	
Barley	\$120	
Corn	\$170	
Soybean Meal - 47 %	\$290	
Canola Meal - 34 %	\$165	
Peas	\$130	
Creep Premix	\$850	
Sow Mico Premix	\$3,000	
Grower Micro Premix	\$2,500	
Canola Oil	\$900	
Whey Powder	\$800	
Herring Meal	\$1,500	
Plasma	\$7,500	
Limestone	\$80	
Dical (16% Ca-21% P)	\$455	
Salt - 96%	\$125	
Phytase	\$11,000	
L-Lysine HCL	\$2,500	
L-Threonine	\$4,800	
DL-Methionine	\$4,500	
Oats Steam Rolled	\$400	
Processing Cost		
(Hydro, Repairs/Maintenance & Insurance)	\$3.25	
Percent Weight loss due to processing	1.25 %	
Labour Cost	\$4.00	

Ration Formulas

		ulas	
	Starter	Grower	Finisher
	Ration	Ration	Ration
	<u>(kg)</u>	<u>(kg)</u>	<u>(kg)</u>
Wheat	532.56	372.39	220.04
Barley	183.30	268.60	408.35
Corn	0.00	0.00	0.00
Soybean Meal - 47 %	158.80	45.37	0.00
Canola Meal - 34 %	0.00	84.39	79.40
Peas	100.00	204.07	272.13
Creep Premix	0.00	0.00	0.00
Sow Mico Premix	0.00	0.00	0.00
Grower Micro Premix	3.00	3.00	3.00
Canola Oil	0.00	0.00	0.00
Whey Powder	0.00	0.00	0.00
Herring Meal	0.00	0.00	0.00
Plasma	0.00	0.00	0.00
Limestone	12.21	11.71	10.38
Dical (16% Ca-21% P)	4.85	5.38	2.84
Salt - 96%	3.50	3.50	3.50
Phytase	0.20	0.20	0.20
L-Lysine HCL	1.36	1.36	0.00
L-Threonine	0.09	0.00	0.02
DL-Methionine	0.13	0.03	0.14
Oats Steam Rolled	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
Total	1,000.00	1,000.00	1,000.00

Feed Requirement and Cost Summary

	Amount	Ingredient Price	Ration Cost	
Starter	(kg)	(\$ /tonne)	(\$ /tonne)	Your Cost
Wheat	532.56	\$135.00	\$71.90	Tour Cost
Barley	183.30	\$120.00	\$22.00	
Soybean Meal - 47 %	158.80	\$290.00	\$46.05	
Peas	100.00	\$130.00	\$13.00	
Grower Micro Premix	3.00	\$2,500.00	\$7.50	
Limestone	12.21	\$80.00	\$0.98	
Dical (16% Ca-21% P)	4.85	\$455.00	\$2.21	
Salt - 96%	3.50	\$125.00	\$0.44	
Phytase	0.20	\$11,000.00	\$2.20	
L-Lysine HCL	1.36	\$2,500.00	\$3.40	
L-Threonine	0.09	\$4,800.00	\$0.43	
DL-Methionine	0.13	\$4,500.00	<u>\$0.59</u>	
Total Starter	1,000.00 kg	+ ,	\$170.70	
Adjusted For Weight Loss	,	1.25	•	
Plus Processing Cost		\$3.25	\$176.08	
Plus Labour Cost		\$4.00	\$180.08	
Grower				
Wheat	372.39	\$135.00	\$50.27	
Barley	268.60	\$120.00	\$32.23	
Canola Meal - 34 %	84.39	\$165.00	\$13.92	
Soybean Meal - 47 %	45.37	\$290.00	\$13.16	
Peas	204.07	\$130.00	\$26.53	
Grower Micro Premix	3.00	\$2,500.00	\$7.50	
Limestone	11.71	\$80.00	\$0.94	
Dical (16% Ca-21% P)	5.38	\$455.00	\$2.45	
Salt - 96%	3.50	\$125.00	\$0.44	
Phytase	0.20	\$11,000.00	\$2.20	
L-Lysine HCL	1.36	\$2,500.00	\$3.40	
DL-Methionine	<u>0.03</u>	\$4,500.00	<u>\$0.14</u>	
Total Grower	1,000.00 kg		\$153.18	
Adjusted For Weight Loss	_	1.25	% \$155.09	
Plus Processing Cost		\$3.25	<u> \$158.34</u>	
Plus Labour Cost		\$4.00	\$162.34	

Finisher			
Wheat	220.04	\$135.00	\$29.71
Barley	408.35	\$120.00	\$49.00
Canola Meal - 34 %	79.40	\$165.00	\$13.10
Soybean Meal - 47 %	0.00	\$290.00	\$0.00
Peas	272.13	\$130.00	\$35.38
Grower Micro Premix	3.00	\$2,500.00	\$7.50
Limestone	10.38	\$80.00	\$0.83
Dical (16% Ca-21% P)	2.84	\$455.00	\$1.29
Salt - 96%	3.50	\$125.00	\$0.44
Phytase	0.20	\$11,000.00	\$2.20
L-Threonine	0.02	\$4,800.00	\$0.10
DL-Methionine	<u>0.14</u>	\$4,500.00	<u>\$0.63</u>
Total Finish	1,000.00 kg		\$140.18
Adjusted For Weight Loss		1.25 %	% \$141.93
Plus Processing Cost		\$3.25	<u>\$145.18</u>
Plus Labour Cost		\$4.00	\$149.18

Swine Hoop Structure Finishing Production Cost Worksheet

A. O	pera	ting Costs			Your Cost		
1. Feed Requirements and Costs							
1	1.01	Starter					
			27.0	weight gain/pig			
		х	2.6	feed conversion ratio			
		=	70.2	kg ration/pig			
		х	\$180.08	/tonne ration			
		÷	1,000	kg/tonne			
		х	12,000	weanlings purchased			
		÷	<u>11,527</u>	pigs sold			
		=	\$13.16	/pig sold			
1	1.02	Grower					
			30.0	weight gain/pig			
		х	3.2	feed conversion ratio			
		=	96.0	kg ration/pig			
		х	\$162.34	/tonne ration			
		÷	1,000	kg/tonne			
		х	12,000	weanlings purchased			
		÷	<u>11,527</u>	pigs sold			
		=	\$16.23	/pig sold			
1	1.03	Finisher					
			33.0	weight gain/pig			
		х	3.6	feed conversion ratio			
		=	118.8	kg ration/pig			
		х	\$149.18	/tonne ration			
		÷	1,000	kg/tonne			
		х	12,000	weanlings purchased			
		÷	<u>11,527</u>	<u>pigs sold</u>			
		=	\$18.45	/pig sold			
2. Ot	her C	Operating Co	osts				
2	2.01	Weanling C	Cost				
			\$57.61	market price			
		÷	100	lbs/cwt			
		х	1.7	formula factor			

 ÷
 100
 lbs/cwt

 x
 1.7
 formula factor

 x
 50
 lbs

 x
 12,000
 weanlings purchased

 ÷
 11,527
 pigs sold

 =
 \$50.98
 /pig sold

2 02	Straw			
2.02	Straw	12,000	number of pigs	
	х	111	days on feed	
	X	1.0	kg straw/pig/day	
	x	\$15.00	per bale	
	÷	700	kg/bale	
	÷	<u>11,527</u>	_pigs_sold	
	=	\$2.48	/pig sold	
2.03	Veterinary	Cost		
2.03	vetermary	\$1,000	professional services	
	+	\$18,000	medication	
	÷		pigs sold	
	-	\$1.65	/pig sold	
	-	ψ1.00		
2.04	Maintenan	ce & Repairs		
		1.10	% of total capital investment	
	х	\$549,868	total buildings and equipment cost	
	÷	<u>11,527</u>	pigs sold	
	=	\$0.52	/pig sold	
2.05	Utilities			
		\$1,000	hydro	
	+	\$0	propane	
	÷	<u>11,527</u>	pigs sold	
	=	\$0.09	/pig sold	
2.06	Insurance			
		\$549,868	buildings & equipment	
	х	\$0.78	/\$100	
	÷	100	/\$100 capital	
	÷	<u>11,527</u>	pigs sold	
	=	\$0.37	/pig sold	
		3,951	average # pigs in shelters	
	х	\$140.00	average value	
	х	\$0.88	/\$100	
	÷	100	/\$100 capital	
	÷	<u>11,527</u>	pigs sold	
	=	\$0.42	/pig sold	
		\$40.00	insured value	
	х	3,951	average number in barn	
	х	\$0.78	rate /\$100	
	÷	<u>11,527</u>	pigs sold	
	=	\$0.11	/pig sold	
	=	\$0.90	/pig sold	

2.07	Manure Co	sts		
		\$33,000	annual cost	
	÷	11,527	<u>pigs sold</u>	
	=	\$2.86	/pig sold	
2.08	Office Sup	olies		
		\$0.30	/pig place	
	х	3,951	pig places	
	÷	<u>11,527</u>	<u>pigs sold</u>	
	=	\$0.10	/pig sold	
2.09	Marketing &			
		\$3.50	trucking-in	
	+	\$3.70	trucking-out	
	+	\$0.80	council levy	
	+	\$0.12	grading charge	
	+	\$0.25	insurance	
	+	<u>\$0.00</u>	Special fee	
	=	\$8.37	/pig sold	
0.40	Dranautic			
2.10	Property Ta		10000	
		\$1,000	taxes	
	÷ =	<u>11,527</u> \$0.09	<u>pigs sold</u> /pig sold	
	=	φ 0.0 9	/pig sola	
2.11	Interest on	Operating	Cost	
		\$50.98	weaner cost	
	х	122	total days to market	
	х	6.0	% operating rate	
	÷	<u>365</u>	days/year	
	=	\$1.02	/pig sold	
		\$115.88	subtotal operating cost	
	-	\$50.98	weaner cost	
	÷	2	average	
	х	122	total days to market	
	÷	365	days/year	
	х	<u>6.00</u>	% operating rate	
	=	\$0.65	/pig sold	
	=	\$1.67	/pig sold	

B. Fixed Costs

3. Depreciation

Original cost - Salvage Value

Useful Life

3.01 Buildings

	- ÷ =	\$334,868 \$0 10 <u>11,527</u> \$2.91	total cost salvage value years useful life <u>pigs sold</u> /pig sold	
3.02	Equipmen	t		
	\$2	215,000.00	total equipment cost	
	- 9	\$21,500.00	salvage value	

÷	\$21,500.00 10	salvage value years useful life	
÷ =	<u>11,527</u> \$1.66	<u>pigs sold</u> /pig sold	

4. Investment Cost

(Original Cost + Salvage Value) X Investment Rate 2

4.01 Land

+ × ÷	\$10,000 \$30,000 4.0 <u>11,527</u> \$0.14	land investment site preparation % investment rate <u>pigs sold</u> /pig sold	
4.02 Buildings			
	\$334,868	total cost	
+	\$0	salvage value	
÷	2	average	
х	4.0	% investment rate	
÷	<u>11,527</u>	pigs sold	
=	\$0.58	/pig sold	

4.03 Equipment

	\$215,000	total equipment cost	
+	\$21,500	salvage value	
÷	2	average	
х	4.0	% investment rate	
÷	<u>11,527</u>	<u>pigs sold</u>	
=	\$0.41	/pig sold	

C. Labour Cost

	3432	total hours/year	
х	\$14.00	/hour	
÷	<u>11,527</u>	<u>pigs sold</u>	
=	\$4.17	/pig sold	

Summary of Purchased Feeds Used

11,643 Pigs available for marketing (includes lightweights)

	Total per Pig Mkt	Total per Year	Total per Month	Total per Pig Mkt
	<u>(kgs)</u>	<u>(tonnes)</u>	<u>(tonnes)</u>	<u>(lbs)</u>
Starter	0.00	0.00	0.00	0.00
Grower	0.00	0.00	0.00	0.00
Finisher	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
Total	0.00	0.00	0.00	0.00

Summary of Home Mixed Feed Ingredients Used

	Total	Total	Total	Total
	per Pig	per Year	per Month	per Pig
	<u>(kgs)</u>	(tonnes)	(tonnes)	<u>(lbs)</u>
Wheat	99.28	1,155.87	96.32	218.86
Barley	87.17	1,014.86	84.57	192.16
Corn	0.00	0.00	0.00	0.00
Soybean Meal - 47 %	15.50	180.50	15.04	34.18
Canola Meal - 34 %	17.53	204.15	17.01	38.66
Peas	58.94	686.24	57.19	129.94
Creep Premix	0.00	0.00	0.00	0.00
Sow Mico Premix	0.00	0.00	0.00	0.00
Grower Micro Premix	0.86	9.95	0.83	1.88
Canola Oil	0.00	0.00	0.00	0.00
Whey Powder	0.00	0.00	0.00	0.00
Herring Meal	0.00	0.00	0.00	0.00
Plasma	0.00	0.00	0.00	0.00
Limestone	3.21	37.43	3.12	7.09
Dical (16% Ca-21% P)	1.19	13.91	1.16	2.63
Salt - 96%	1.00	11.61	0.97	2.20
Phytase	0.06	0.66	0.06	0.13
L-Lysine HCL	0.23	2.63	0.22	0.50
L-Threonine	0.01	0.10	0.01	0.02
DL-Methionine	0.03	0.33	0.03	0.06
Oats Steam Rolled	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
Total	285.00	3,318.26	276.52	628.31
Total	285.00	3,318.26	276.52	628.31

For further information contact your local MAFRI office.

Prepared by: Peter Blawat Policy Analyst

John Maltman Production Extension Specialist - Swine

Ian Seddon Business Development Specialist - Swine

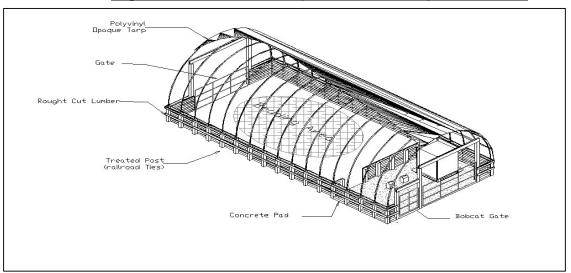
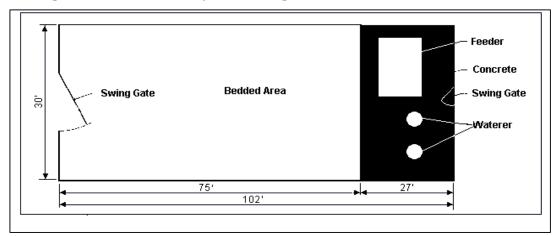


Figure 1 Common components of hoop structures

Estimated shelter costs for a 30 'x 102' structure

Tarp & hoops	\$6,890	
End doors	\$648	
4 Corner Panels	\$435	
Feeder 6 x 6 x 6	\$1,768	
Waterer (4-Hole)	\$980	
Heater Cables	\$55	
Concrete	\$1,500	
Railroad Ties	\$800	
Planking	\$1,000	
<u>Labour</u>	<u>\$3,500</u>	
Total	\$17,576	

Figure 2 Common layout of a grow finish structure



Return On Assets (ROA)

Assumptions						
Total Assets		\$589,868		\$56.83		
Total	Pigs Sold	11,527		•		
	to Market	122				
-						
Mark	et Weight (shrunk)	111.9	kg/hog (live)			
	sing %	80				
	ass Weight		kg/hog carcass			
	et Index	110				
Mark	et Price	\$127.00	/100 kg carcass			
Return On Asse	ets Calculation	<u>\$/Pig Sold</u>	<u>% of Total</u>			
Total Revenue		\$125.03				
Premium		\$2.00				
Total		\$127.03				
Less Expenses						
Feed	Costs	\$47.84	37.5			
Feed	er Cost	\$50.98				
Othe	r Operating Costs	\$17.06	13.4			
Intere	est on Operating Costs	<u>\$1.67</u>	<u>1.3</u>			
Total Operating	J Costs	\$117.55	92.3			
Depreciation		\$4.57	3.6			
Intere	est on Investment	\$1.13	0.9			
	ur (Family & Hired)	<u>\$4.17</u>	<u>3.3</u>			
Total Expenses	(Cost Of Production)	\$127.42	100.0			
Net Income		(\$0.39)				
Return On Asse	ets (ROA)		4.7%			
Equation	•	Net Income + Operating Interest + Investment Interest <u>- Value of Unpaid Family and Operator Labour</u> Total Assets				
Total Assets	otal Assets Definition: Total Assets includes the buildings, equipment, land, manure storage.					