2013 Pennsylvania Farm Business Management Resource Information

Background information

Laura and Phil Stuff own and operate a swine finishing operation in partnership with their daughter Julie. They also grow crops on 650 acres, of which they own 450 acres and they rent the other 200. Julie has a part time side business as a farrier. Crops grown by the farm include corn, wheat, and soybeans. Currently Laura and Phil's other 2 children are grown and working in other careers. Julie's husband works as a mathematics teacher and their two children are elementary age.

They finish an average of 50,000 hogs per year under a contract with Hatfield which they have done for the past 11 years.

The partnership is currently structured with Laura and Phil owning 75% and Julie 25%. However, Laura and Phil are looking to start retiring and cutting back. They want to phase themselves completely out within the next 7 years.

Laura and Phil have farmed for their entire life. Before raising hogs, they had a dairy farm. The farm was in need of major upgrades and the decision was made to convert to crops and hogs.

Julie was a full-time farrier, but 3 years ago, she cut back her work hours to work on the farm. Her hours remain flexible so she can help on the farm during peak seasons of need.

For the farm, Laura serves as the business manager and tracks all accounts and makes purchases. She also operates equipment as needed. Phil is primarily in charge of the feeder pigs, though the others provide labor as needed. Julie is in charge of the crops and makes the decisions about planting, harvesting, fertilizing, etc.

The Stuff's provide all of the labor for the farm. A few times they have used custom labor, when they had a break or got behind.

Going forward, the farm has the opportunity to purchase the 200 acres that they are currently renting and they are also looking into using alternative energy sources to reduce the amount of the electricity that needs to be purchased.

			iff Farm ance Sheet			Dec	ember 31, 2012
		Ass	ets				
Curre	nt Assets						
	Bank Checking	\$	23,800				
	Bank Savings		2,618				
	Bank Direct Deposit	\$ \$ \$ \$	174				
	Accounts Receivable	\$	2,150				
	Inventories	\$	152,300				
	Feeder Pigs	\$	20,000				
	Total	Current Asse	ts	\$	201,042		
Non-c	urrent Assets						
	Land	\$	876,200				
	Buildings	\$	200,000				
	Machinery and Equipment	\$	413,000				
	Total	Non-current	Assets	\$	1,489,200		
				Tota	al Assets	\$	1,690,242
		Lia	bilities				
Curre	nt Liabilities						
	Feed Accounts Payable	\$	6,800				
	Wages/taxes payable	\$	18,129				
	Accrued interest	\$	32,000				
	Farm Credit Operating Loan	\$	56,000				
	Current Portion of long-term of	ebt \$	40,000				
	Total	Current Liabi	ilities	\$	152,929		
Non-c	urrent Liabilities						
	Building Loan	\$	42,000				
	Land Mortgage	\$	150,000				
	Equipment Loans	\$	212,000				
	Total	Non-Current	Liabilities	\$	254,000		
					al Liabilities	\$	406,929
				Net	Worth	\$	1,283,313
	2011 Net Worth \$ 1,4	476,218					

2013 Projected Cash Flow Stuff Dairy Farm

	13 Projected Cash Flow Stuff Dairy Farm								
Item	JAN	FEB	MAR	APR	MAY	JUN			
RECEIPTS									
Feeder Pigs	0	0	0	240,000	0	0			
Corn	0	0	50,000	0	0	0			
Wheat	0	0	0	0	0	0			
Soybeans	0	0	5,280	0	0	0			
USDA payments	0	0	0	15,900	0	0			
Other	0	1,154	0	0	1,154	0			
Total Farm Receipts	0	1,154	55,280	255,900	1,154	0			
Non-farm income	0	0	0	0	0	0			
TOTAL CASH INFLOWS	0	1,154	55,280	255,900	1,154	0			
EXPENSES									
Seed	32,357	0	0	0	0	0			
Fertilizer and chemicals	0	0	0	16,636	27,893	11,256			
Insurance (crop, farm, etc.)	0	0	0	0	0	8,500			
Custom hire	0	0	0	0	500	0			
Purchased feed	11,000	12,000	12,000	10,000	10,000	11,000			
Veterinary	100	100	120	100	100	100			
Supplies	400	0	400	0	400	0			
Hauling	0	0	0	2,100	0	0			
Bedding	300	300	300	300	300	300			
Fuel and oil	200	200	400	800	800	500			
Repairs	0	500	1,000	0	700	400			
Labor	9,000	9,000	9,000	9,000	9,000	9,000			
Land rent	0	0	15,000	0	0	0			
Real estate taxes	0	0	0	0	5,500	0			
Utilities	3,621	3,621	3,621	2,414	2,414	2,414			
Dues and fees	0	0	1,300	0	1,300	0			
Miscellaneous	1,000	1,000	1,000	1,000	1,000	1,000			
Operating Expenses Total	57,978	26,721	44,141	42,350	59,907	44,470			
Capital purchases	0	0	0	0	110,000	0			
Principal payments	5,093	5,093	5,093	5,093	5,093	5,093			
Interest payments	6,000	6,000	6,000	6,000	6,000	6,000			
Total Farm Expenses	69,071	37,814	55,234	53,443	181,000	55,563			
Non-farm expenses	0	0	0	0	0	0			
TOTAL CASH OUTFLOWS	69,071	37,814	55,234	53,443	181,000	55,563			
SUMMARY OF PROJECTED	CASH FLOW								
Cash Difference for Month	(69,071)	(36,660)	46	202,457	(179,846)	(55,563)			
Beginning Cash Balance	112,900	43,829	7,169	7,215	209,672	29,826			
Cash Position	43,829	7,169	7,215	209,672	29,826	(25,737)			
ENDING CASH BALANCE	43,829	7,169	7,215	209,672	29,826	(25,737)			

Beginning Bank Account Balance \$ 349,695

Minimum Monthly Bank Balance \$ 2,000

Beginning Operating Loan Amount \$ 0

2013 Projected Cash Flow (continued) Stuff Dairy Farm

Item	JUL	AUG	SEP SEP	OCT	NOV	DEC	TOTALS
RECEIPTS	702	7.00	5 2.	00.		7_0	1017120
Feeder Pigs	0	0	0	225,000	0	0	465,000
Corn	0	0	0	10,000	85,000	72,000	217,000
Wheat	40,000	0	0	0	0	0	40,000
Soybeans	0	0	0	0	20,000	0	25,280
USDA payments	4,000	0	0	17,500	0	0	37,400
Other	0	0	15,800	0	11,538	0	29,646
Total Farm Receipts	44,000	0	15,800	252,500	116,538	72,000	814,326
Non-farm income	0	0	0	0	0	0	0
TOTAL CASH INFLOWS	44,000	0	15,800	252,500	116,538	72,000	814,326
EXPENSES							
Seed	0	9,000	0	0	0	0	41,357
Fertilizer and chemicals	0	0	0	0	0	0	55,785
Insurance (crop, farm, etc.)	0	0	3,600	0	6,090	8,500	26,690
Custom hire	0	0	0	0	0	0	500
Purchased feed	10,000	11,000	12,000	13,000	10,000	10,000	132,000
Veterinary	100	240	100	100	100	100	1,360
Supplies	400	0	400	0	400	0	2,400
Hauling	0	0	0	2,300	0	0	4,400
Bedding	200	200	200	200	200	200	3,000
Fuel and oil	900	1,000	800	800	500	300	7,200
Repairs	1,000	1,000	500	400	200	0	5,700
Labor	9,000	9,000	9,000	9,000	9,000	9,000	108,000
Land rent	0	0	0	20,000	0	0	35,000
Real estate taxes	0	0	0	5,500	0	0	11,000
Utilities	2,414	2,414	2,414	2,414	3,621	3,618	35,000
Dues and fees	1,300	0	1,300	0	1,300	0	6,500
Miscellaneous	1,000	1,000	1,000	1,000	1,000	1,000	12,000
Operating Expenses Total	26,314	34,854	31,314	54,714	32,411	32,718	487,892
Capital purchases	0	0	0	0	0	0	110,000
Principal payments	5,093	5,093	5,093	12,900	5,093	5,093	68,923
Interest payments	6,000	6,000	6,000	6,000	6,000	6,000	72,000
Total Farm Expenses	37,407	45,947	42,407	73,614	43,504	43,811	738,815
Non-farm expense	0	0	0	0	0	0	0
TOTAL CASH OUTFLOWS	37,407	45,947	42,407	73,614	43,504	43,811	738,815
SUMMARY OF PROJECTED CA	SH FLOW						0
Cash Difference for Month	6,593	(45,947)	(26,607)	178,886	73,034	28,189	75,511
Beginning Cash Balance	278,504	297,214	315,115	308,323	312,551	292,235	
Cash Position	285,097	251,267	288,508	487,209	385,585	320,424	
ENDING CASH BALANCE	285,097	251,267	288,508	487,209	385,585	320,424	75,511

Statement of Income for the year ended December 31, 2012

	Total		
Revenue			
Feeder Pigs	\$	450,000	
Corn	\$	124,000	
Wheat	\$ \$ \$ \$	37,090	
Soybeans	\$	21,672	
USDA payments	\$	19,366	
Other	\$	14,184	
Gross Revenue			\$ 666,312
Operating Expenses			
Seed	\$	89,000	
Feed	\$	223,000	
Fertilizer	\$	31,000	
Pesticides	\$	8,100	
Interest	\$	72,000	
Equipment Rental	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	638	
Depreciation	\$	15,671	
Labor	\$	110,000	
Supplies	\$	23,000	
Repairs and Maintenance	\$	7,890	
Utilities	\$	2,690	
Taxes	\$	2,700	
Insurance	\$	12,980	
Fuel and Oil	\$	15,678	
Legal and accounting	\$	4,500	
Employee benefits	\$	11,093	
Vet	\$	3,500	
Miscellaneous	\$	1,780	
Total Operating Expe	nses		\$ 635,220
Net Farm Income from	n Operation	s	\$ 31,092

Corn Enterprise Budget

per acre

Seed \$ 97.00					per					
Seed \$ 97.00	VALUE	YOUR V	VALUE	RICE	Р	UANTITY	TS (UNITS		
Fertilizer									OSTS	OPERATING C
Crop Chemicals \$ 39.80 Crop Insurance \$ 10.91 Equipment \$ 105.00 Labor \$ 45.00 Land \$ 250.00 Miscellaneous \$ 6.82 Fuel and Oil \$ 28.70 Repairs \$ 14.06 Interest on Operating Capital \$ 0.41 TOTAL OPERATING COSTS General Overhead \$ 1.80 Insurance \$ 2.82 Depreciation \$ 15.64 Operator Labor and Management Charge \$ 27.00 TOTAL FIXED COSTS PRODUCTION Corn bu. 148 \$ 5.70 \$ 843.60 TOTAL RECEIPTS			97.00						Seed	
Crop Insurance			89.00						Fertilizer	
Equipment			39.80					micals	Crop Cher	
Labor			10.91					ırance	Crop Insur	
Land \$ 250.00			105.00					nt	Equipmen	
Miscellaneous \$ 6.82 Fuel and Oil \$ 28.70 Repairs \$ 14.06 Interest on Operating Capital \$ 0.41 TOTAL OPERATING COSTS General Overhead \$ 1.80 Insurance \$ 2.82 Depreciation \$ 15.64 Operator Labor and Management Charge \$ 27.00 TOTAL FIXED COSTS PRODUCTION Corn bu. 148 \$ 5.70 \$ 843.60 TOTAL RECEIPTS			45.00	\$					Labor	
Fuel and Oil \$ 28.70 Repairs \$ 14.06 Interest on Operating Capital \$ 0.41 TOTAL OPERATING COSTS General Overhead \$ 1.80 Insurance \$ 2.82 Depreciation \$ 15.64 Operator Labor and Management Charge \$ 27.00 TOTAL FIXED COSTS PRODUCTION Corn bu. 148 \$ 5.70 \$ 843.60 TOTAL RECEIPTS			250.00	\$					Land	
Repairs			6.82	\$				ieous	Miscellane	
Interest on Operating Capital \$ 0.41 TOTAL OPERATING COSTS \$ 686.70 FIXED COSTS General Overhead \$ 1.80 1.80			28.70	\$				Oil	Fuel and C	
TOTAL OPERATING COSTS			14.06	\$					Repairs	
General Overhead \$ 1.80			0.41	\$			ting Capita	on Operati	Interest o	
General Overhead \$ 1.80										
General Overhead \$ 1.80			686.70	\$				STS	TING COS	TOTAL OPERA
Insurance										FIXED COSTS
Depreciation			1.80				t	Overhead	General O	
TOTAL FIXED COSTS			2.82	\$				9	Insurance	
TOTAL FIXED COSTS			15.64	\$				tion	Depreciat	
PRODUCTION Corn bu. 148 \$ 5.70 \$ 843.60 TOTAL RECEIPTS \$ 843.60			27.00	\$	rge	ment Charge	nd Manage	Labor and	Operator	
Corn bu. 148 \$ 5.70 \$ 843.60 TOTAL RECEIPTS \$ 843.60			47.26	\$					COSTS	TOTAL FIXED (
TOTAL RECEIPTS \$ 843.60										PRODUCTION
			843.60	\$ 5.70	48 \$	148		bu.	Corn	
TOTAL DECEMBE.			843.60	\$					PTS	TOTAL RECEIP
TOTAL DECEMBE										
TOTAL RECEIPTS \$ 843.60			843.60	\$					PTS	TOTAL RECEI
TOTAL OPERATING COSTS \$ 686.70			686.70	\$				STS	ATING COS	TOTAL OPERA
RETURNS ABOVE TOTAL OPERATING COSTS \$ 156.90			156.90	\$	COSTS	ERATING CO	TOTAL OP	S ABOVE T	RETURNS	
TOTAL FIXED COSTS \$ 47.26			47.26	\$					COSTS	TOTAL FIXED
RETURNS ABOVE ALL SPECIFIED COSTS \$ 109.64			109.64	\$	TS	FIED COSTS	ALL SPEC	S ABOVE A	RETURNS	

Wheat Enterprise Budget

			pe	r acre			
	UNITS	QUANTITY	F	RICE	,	/ALUE	YOUR VALUE
OPERATING COSTS							
Seed					\$	34.00	
Fertilizer					\$	37.00	
Crop Chemicals					\$	12.00	
Crop Insurance					\$	8.42	
Equipment					\$	179.47	
Miscellaneous					\$	32.57	
Fuel and Oil					\$	27.60	
Repairs					\$	15.33	
Interest on Operating Capital					\$	0.45	
TOTAL OPERATING COSTS					\$	346.84	
FIXED COSTS							
General Overhead					\$	1.97	
Insurance					\$	3.08	
Depreciation					\$	17.07	
Operator Labor and Managem	nent Cha	rge			\$	21.54	
Land					\$	150.00	
TOTAL FIXED COSTS					\$	193.66	
PRODUCTION							
Wheat	Bushels	s 60) \$	11.50	\$	690.00	
TOTAL RECEIPTS					\$	690.00	
TOTAL RECEIPTS					\$	690.00	
TOTAL OPERATING COSTS					\$	346.84	
RETURNS ABOVE TOTAL OPE	RATING	COSTS			\$	343.16	
TOTAL FIXED COSTS					\$	193.66	
RETURNS ABOVE ALL SPECIF	IED COS	STS			\$	149.50	

Soybean Enterprise Budget

			pe	r acre			
	UNITS	QUANTITY	F	PRICE	,	VALUE	YOUR VALUE
OPERATING COSTS							
Seed					\$	65.00	
Fertilizer					\$	12.00	
Crop Chemicals					\$	32.00	
Crop Insurance					\$	7.00	
Custom Hire					\$	81.55	
Miscellaneous					\$	32.57	
Fuel and Oil					\$	45.30	
Repairs					\$	17.60	
Interest on Operating Capital					\$	0.45	
TOTAL OPERATING COSTS					\$	293.47	
FIXED COSTS							
General Overhead					\$	1.97	
Insurance					\$	3.08	
Depreciation					\$	17.07	
Operation Labor and Manage	ment Ch	arge			\$	32.10	
Land					\$	190.00	
TOTAL FIXED COSTS					\$	244.22	
PRODUCTION							
Soybeans	Bushels	s 5	7 \$	11.60	\$	661.20	
TOTAL RECEIPTS					\$	661.20	
TOTAL RECEIPTS					\$	661.20	
TOTAL OPERATING COSTS					\$	293.47	
RETURNS ABOVE TOTAL OPE	RATING	COSTS			\$	367.73	
TOTAL FIXED COSTS					\$	244.22	
RETURNS ABOVE ALL SPECIF	IED COS	STS			\$	123.51	

Finishing Feeder Pigs - One Pig

Income	Price Unit	Quantity Unit	To	otal
Market hog	\$0.80 per lb	x 260 lbs	= \$2	208.00
9	*************************************		·	
Variable Costs	Price Unit	Quantity Unit		
Feeder pig	\$55.00 head	x 1 head	= \$	\$55.00
Interest	9%	x 5 months	=	\$2.06
Feed Costs				
Corn	CC 05 man h	0.0 6	d	\$56.25
Soybean meal	\$6.25 per bu \$0.30 per lb	x 9.0 bu x 82 lbs	=	24.60
Dried distiller grain	\$0.30 per lb	x 32 lbs	=	3.84
Vitamin & minerals	\$0.50 per lb	x 14.4 lbs	=	7.20
Feed processing & delivery	\$10.00 per ton		=	3.00
Feed Additives	<u> </u>	A		3.00
Other				0.00
Total Feed Costs			9	\$97.89
Veterinary and medical				\$4.00
Fuel, repairs, utilities				3.50
Marketing, miscellaneous				4.00
Other				0.00
Manure application cost	\$0.01 per gal		=	1.90
Interest on variable costs	5%	2.5 months	=	1.14
Death loss	0.02 hd	0.3 65.00	=	1.10
Labor	\$14.00 per hou	ır 0.2 hours	=	2.80
Total Variable Costs			\$1	173.39
Income over Variable Costs			Ş	\$34.61
Fixed Costs				
Machinery, facilities				\$8.63
Wacrimery, racings				ψ0.03
Total All Costs			\$1	182.02
Income over All Costs			9	\$25.98
Brook even colling price for verichle ex-	ete		d	\$66.69 per cwt
Break-even selling price for variable cos Break-even selling price for all costs	515			\$70.01 per cwt
break-even seiling price for all costs			•	aro.or percwi

Financial Coefficients for the Time Value of Money

Interest Rate = 6%

Year	Present Value	Future Value	Present	Future Value	Amortization
	of 1	of 1	Value/Ordinary	of Ordinary	Factors
			Annuity	Annuity	
1	0.9434	1.0600	0.9434	1.0000	1.0600
2	0.8900	1.1236	1.8334	2.0600	0.5454
3	0.8396	1.1910	2.6730	3.1836	0.3741
4	0.7921	1.2625	3.4651	4.3746	0.2886
5	0.7473	1.3382	4.2124	5.6371	0.2374
6	0.7050	1.4185	4.9173	6.9753	0.2034
7	0.6651	1.5036	5.5824	8.3938	0.1791
8	0.6274	1.5938	6.2098	9.8975	0.1610
9	0.5919	1.6895	6.8017	11.4913	0.1470
10	0.5584	1.7908	7.3601	13.1808	0.1359
11	0.5268	1.8983	7.8869	14.9716	0.1268
12	0.4970	2.0122	8.3838	16.8699	0.1193
13	0.4688	2.1329	8.8527	18.8821	0.1130
14	0.4423	2.2609	9.2950	21.0151	0.1076
15	0.4173	2.3966	9.7122	23.2760	0.1030
16	0.3936	2.5404	10.1059	25.6725	0.0990
17	0.3714	2.6928	10.4773	28.2129	0.0954
18	0.3503	2.8543	10.8276	30.9057	0.0924
19	0.3305	3.0256	11.1581	33.7600	0.0896
20	0.3118	3.2071	11.4699	36.7856	0.0872
21	0.2942	3.3996	11.7641	39.9927	0.0850
22	0.2775	3.6035	12.0416	43.3923	0.0830
23	0.2618	3.8197	12.3034	46.9958	0.0813
24	0.2470	4.0489	12.5504	50.8156	0.0797
25	0.2330	4.2919	12.7834	54.8645	0.0782

Financial Coefficients for the Time Value of Money

Interest Rate

8%

Year	Present Value	Future Value	Present	Future Value	Amortization
	of 1	of 1	Value/Ordinary	of Ordinary	Factors
			Annuity	Annuity	
1	0.9259	1.0800	0.9259	1.0000	1.0800
2	0.8573	1.1664	1.7833	2.0800	0.5608
3	0.7938	1.2597	2.5771	3.2464	0.3880
4	0.7350	1.3605	3.3121	4.5061	0.3019
5	0.6806	1.4693	3.9927	5.8666	0.2505
6	0.6302	1.5869	4.6229	7.3359	0.2163
7	0.5835	1.7138	5.2064	8.9228	0.1921
8	0.5403	1.8509	5.7466	10.6366	0.1740
9	0.5002	1.9990	6.2469	12.4876	0.1601
10	0.4632	2.1589	6.7101	14.4866	0.1490
11	0.4289	2.3316	7.1390	16.6455	0.1401
12	0.3971	2.5182	7.5361	18.9771	0.1327
13	0.3677	2.7196	7.9038	21.4953	0.1265
14	0.3405	2.9372	8.2442	24.2149	0.1213
15	0.3152	3.1722	8.5595	27.1521	0.1168
16	0.2919	3.4259	8.8514	30.3243	0.1130
17	0.2703	3.7000	9.1216	33.7502	0.1096
18	0.2502	3.9960	9.3719	37.4502	0.1067
19	0.2317	4.3157	9.6036	41.4463	0.1041
20	0.2145	4.6610	9.8181	45.7620	0.1019
21	0.1987	5.0338	10.0168	50.4229	0.0998
22	0.1839	5.4365	10.2007	55.4568	0.0980
23	0.1703	5.8715	10.3711	60.8933	0.0964
24	0.1577	6.3412	10.5288	66.7648	0.0950
25	0.1460	6.8485	10.6748	73.1059	0.0937