

2012 Iowa Farm Costs and Returns

Ag Decision Maker

File C1-10

The farm record data utilized in this report were obtained from the Iowa Farm Business Association annual summary. The average of all farms in each table represents a weighted average of the values for each size group listed. Weighting factors are based on the number of farms in each size group in the state, as computed from the most recent Census of Agriculture. Only farms with sales of \$100,000 or more were counted in making the weighting. Thus, overall averages should be representative of full-time Iowa farms.

All records were kept on the accrual, or inventory, basis. On rented farms, only operator income and expenses were recorded. Data for ending assets and liabilities represent those of the operator only, and do not include the value of rented land.

Definition of Terms Used

Net farm income, cash - total sales and other cash income minus cash expenses, including purchases of livestock and feed. Does not include principal borrowed or repaid, sales and purchases of capital assets or nonfarm income and expenses.

Net farm income, accrual - cash net income adjusted for inventory changes and accrued expenses. Represents a return to unpaid labor, net worth (equity), management and profit.

Value of farm production - value of crops produced (at market price), livestock production (net of feed and purchased livestock), inventory value gain or loss and miscellaneous income. This measures the total production per farm.

Management return - accrual net farm income less 3 percent interest on value of equity (net worth) and wages for operator and family labor. The wage rate used for operator labor was \$1,700 per month. For family labor, the rate was \$700 per month.

Inventory value gain or loss - change in value of crops or livestock sold due to differences in opening inventory price and final sale price.

Livestock returns per \$100 feed fed - value of livestock production minus livestock purchases, divided by value of feed fed, multiplied by 100.

Machinery cost per crop acre - total of machinery repairs, fuel, custom machine hire, utilities, machinery depreciation and auto expense, less 75 percent of all custom hire income received, divided by crop acres. Depreciation is estimated at 10 percent of current value of the machinery. Interest is not included.

Return to owned assets - net farm income, plus interest expense, minus value of operator and family labor, divided by total farm assets owned.

Return to equity - net farm income minus value of operator and family labor, divided by net worth.

Operating profit margin ratio - net farm income, plus interest expense, minus value of operator and family labor, divided by value of farm production.

Working capital - current assets minus current liabilities.

The data for this report were collected by Iowa Farm Business Association consultants and compiled by Iowa State University Extension and Outreach, with assistance from the Iowa Agricultural Experiment Station, project number 0111.



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Iowa Farm Costs and Returns 2008-2012

The following summary is intended to provide a general picture of costs and returns to well-managed, full-time Iowa farms. The values presented are averages; however, results vary widely from one farm to the next.

Farm financial results were generally more profitable than in 2011 and comparable to results in previous years. Accrual net farm income averaged \$197,873, the highest value ever recorded in this summary. Low crop yields were offset by higher selling prices for crops to boost net incomes. Livestock net income was lower due to high feed costs. Machinery cost per acre continued to increase. Most financial efficiency factors were similar to 2011. Average debt-to-asset ratio decreased again to its lowest level in many years, indicating that many farms paid off debts with profits from previous years.

Table 1. Comparison by Years

	2012	2011	2010	2009	2008
Financial Returns					
Net farm income-accrual	\$197,873	\$187,340	\$140,991	\$114,716	\$149,605
Return to management	115,120	121,457	76,655	52,151	58,112
Net farm income-cash	171,706	127,737	128,642	121,202	191,934
Resources Used					
Crop acres per farm	518	530	600	645	806
Labor months	13	13	15	15	18
Livestock, feed, supplies	\$516,763	\$444,517	\$443,654	\$403,303	\$545,933
Machinery and equipment	272,774	242,080	259,174	243,720	271,312
Land and improvement	921,543	825,666	830,453	772,236	835,588
Total farm assets	\$1,711,080	\$1,512,264	\$1,533,281	\$1,419,258	\$1,652,833
Farm net worth	\$1,411,080	\$1,131,715	\$1,238,211	\$1,111,854	\$1,255,289
Sources of Income					
Livestock income less feed	\$8,602	\$24,869	\$27,782	\$22,329	\$45,409
Crop production	459,884	370,467	371,089	366,475	408,950
Miscellaneous	30,729	29,606	28,768	19,904	53,228
Crop inventory gain or loss	38,233	66,217	31,362	34,369	77,171
Value of farm production	\$537,448	\$491,158	\$459,001	\$443,077	\$584,758
Cash Expenses					
Operating	\$211,570	\$189,062	\$193,473	\$194,721	\$255,605
Fixed	145,171	129,392	135,752	131,633	182,719
Efficiency					
Corn yield (bu. per acre)	149	172	174	183	179
Average sale price for corn, per bushel	\$6.45	\$5.58	\$3.69	\$3.80	\$4.60
Crop value per acre	\$855	\$671	\$584	\$562	\$541
Machinery cost per crop acre	154	135	118	109	99
Livestock returns per \$100 feed fed	101	135	149	118	124
Value of farm production per person	\$539,623	\$447,424	\$397,576	\$389,276	\$459,157
Value of farm production per \$1 expense	\$1.70	\$1.71	\$1.52	\$1.43	\$1.39
Value of farm production per \$1 assets	\$0.30	\$0.30	\$0.28	\$0.29	\$0.44
% return to owned assets	10.1%	10.6%	7.6%	7.4%	10.6%
% return to equity capital	11.2%	11.8%	8.1%	7.9%	13.5%
Financial					
Debt-to-asset ratio	0.15	0.16	0.17	0.19	0.24
Current asset-to-debt ratio	8.05	5.51	4.69	3.83	3.87
Farm net worth per acre farmed	\$2,833	\$2,681	\$2,142	\$1,786	\$1,557

Assets and Liabilities

A breakdown of farm assets and liabilities by value of gross sales per farm is shown in Table 2 below. Both assets and debts increased as farm size increased. The total debt-to-asset ratio also increased as farm size increased, indicating that larger farms utilized relatively more credit.

Table 2. Assets and Liabilities by Size of Farm, End of Year Values

	Average	Total Value of Gross Sales			
		\$100,000 to \$199,999	\$200,000 to \$399,999	\$400,000 to \$799,999	\$800,000 and above
Farm Assets					
Feeding livestock	\$47,743	\$4,034	\$11,648	\$20,035	\$199,590
Corn	\$233,668	\$70,562	\$165,888	\$254,872	\$554,921
Soybeans	\$97,614	\$31,023	\$77,409	\$118,365	\$203,394
Other feed	\$10,724	\$2,472	\$3,854	\$12,867	\$31,311
Supplies, prepaid expenses	\$127,014	\$54,669	\$78,644	\$132,504	\$303,201
Total short-term assets	\$516,763	\$162,760	\$337,443	\$538,641	\$1,292,417
Breeding livestock	\$12,696	\$1,836	\$8,547	\$17,968	\$29,224
Machinery, equipment	\$260,078	\$69,283	\$164,492	\$311,617	\$632,384
Total intermediate assets	\$272,774	\$71,119	\$173,039	\$329,585	\$661,608
Land and improvements	\$921,543	\$339,341	\$832,731	\$952,328	\$1,872,431
Total assets	\$1,711,080	\$573,220	\$1,343,213	\$1,820,554	\$3,826,456
Farm Liabilities					
Operating notes, accounts payable	\$90,333	\$9,875	\$53,467	\$82,522	\$274,553
Intermediate and long-term due	\$3,485	\$1,565	\$1,150	\$3,183	\$10,344
FSA marketing loans	\$2,214	\$0	\$1,827	\$2,844	\$5,339
Total short-term debt	\$74,070	\$11,440	\$56,444	\$88,548	\$290,236
Intermediate-term debt	\$44,407	\$2,653	\$24,742	\$57,084	\$122,324
Long-term debt	\$159,561	\$25,573	\$120,519	\$183,473	\$389,588
Total liabilities	\$278,039	\$39,666	\$201,705	\$329,105	\$802,148
Farm Net Worth					
Net worth change from last year	\$172,082	\$47,111	\$123,554	\$203,484	\$395,968
Working capital	\$442,692	\$151,320	\$280,999	\$450,093	\$1,002,181
Current asset-to-debt ratio	8.05	14.23	5.98	6.25	4.45
Working capital per dollar of gross revenue	\$0.75	\$0.94	\$0.77	\$0.71	\$0.57
Total debt-to-asset ratio	0.15	0.07	0.15	0.18	0.21
Total crop acres farmed	518	174	380	614	1,132
Months of labor used	13	7	11	14	25
Farm net worth per acre farmed	\$2,833	\$3,066	\$3,004	\$2,428	\$2,672

Income and Expenses

A summary of operating and fixed expenses by size of farm is shown in Table 3. Most expenses increased as farm size increased. Crop expenses include seed, fertilizer, pesticides and other expenses related to crop production. The average farm had over \$220,000 available for replacement of capital assets, expansion, savings, living expenses and income taxes.

Table 3. Summary of Cash Income and Expenses by Size of Farm

	Average	Total Value of Gross Sales			
		\$100,000 to \$199,999	\$200,000 to \$399,999	\$400,000 to \$799,999	\$800,000 and above
Income					
Livestock sales	\$118,847	\$3,701	\$12,824	\$40,812	\$541,996
Crop sales	389,016	119,490	264,087	455,259	906,023
Other cash income	63,297	14,715	34,648	67,117	175,316
Total cash income	\$571,160	\$137,906	\$311,559	\$563,188	\$1,623,335
Expenses					
Machinery and equipment repairs	\$18,047	\$5,997	\$13,559	\$21,897	\$38,415
Fuel and oil	15,221	4,354	9,098	16,152	39,738
Machine hire	8,310	1,972	6,543	10,394	18,007
Auto and truck expense	5,949	1,832	3,509	6,832	14,844
Utilities	5,501	2,206	3,970	5,728	12,471
Labor hired	12,382	2,881	2,497	8,843	45,908
Livestock expense	9,044	462	1,369	4,134	39,213
Crop expense	128,729	34,780	87,244	143,414	314,949
Miscellaneous	8,387	2,250	4,036	7,697	25,013
Total cash operating expense	\$211,570	\$56,734	\$131,825	\$225,090	\$548,558
Cash rent	\$65,383	\$13,585	\$29,126	\$70,978	\$192,291
Property taxes	5,867	3,188	5,044	6,101	10,803
Insurance	15,581	5,985	9,827	17,083	37,033
Building repairs	6,889	2,465	5,296	6,232	16,575
Interest	14,087	2,988	8,481	15,631	37,432
Total cash fixed expense	\$107,807	\$28,211	\$57,774	\$116,024	\$294,134
Feed purchased	\$38,847	\$1,054	\$3,460	\$13,206	\$178,706
Livestock purchased	41,230	1,236	6,274	11,921	187,649
Total cash expenses	\$399,454	\$87,235	\$199,333	\$366,241	\$1,209,047
Cash net farm income	\$171,706	\$50,671	\$112,226	\$196,947	\$414,288
Loans received minus loans repaid	\$25,529	\$148	\$30,732	\$36,125	\$42,174
Net farm cash flow	\$197,234	\$50,819	\$142,958	\$233,071	\$456,462
Nonfarm income	\$25,119	\$21,857	\$21,529	\$36,173	\$23,346
Net cash available	\$222,353	\$72,676	\$164,487	\$269,244	\$479,808

A more accurate measure of net farm income is achieved by netting out changes in the values of beginning and ending inventories, subtracting a depreciation charge for farm assets, and including accrued income and expenses. A summary of income and expenses using accrual accounting is shown in Table 4. The average accrual net farm income ranged from \$62,565 for the smallest farms to \$455,341 for the largest. Return to management, after subtracting a return to unpaid labor and equity capital invested, ranged from \$23,981 for the smallest group to \$298,846 for the largest farms.

Table 4. Summary of Accrual Income and Expenses by Size of Farm

	Average	Total Value of Gross Sales			
		\$100,000 to \$199,999	\$200,000 to \$399,999	\$400,000 to \$799,999	\$800,000 and above
Income					
Total cash income	\$571,160	\$137,906	\$311,559	\$563,188	\$1,623,335
Accrued income	79,344	28,497	53,463	73,724	200,667
Change in crop and livestock inventories	(15,813)	(5,884)	(1,042)	(4,729)	(66,156)
Total accrual income (gross revenue)	\$634,691	\$160,519	\$363,980	\$632,182	\$1,757,846
Total cash expenses					
Total cash expenses	\$399,454	\$87,235	\$199,333	\$366,241	\$1,209,047
Depreciation	37,363	10,719	22,681	42,789	93,458
Total accrual expenses	\$436,818	\$97,954	\$222,014	\$409,031	\$1,302,505
Accrual net farm income	\$197,873	\$62,565	\$141,966	\$223,152	\$455,341
Charge for unpaid labor	25,026	15,556	24,800	28,913	34,787
Charge for equity capital (4%)	57,727	23,028	47,372	60,292	121,708
Return to management	\$115,120	\$23,981	\$69,794	\$133,948	\$298,846

The value of all crops and livestock produced on the farm is shown in Table 5. Gains from increasing crop prices after the beginning of the year are shown separately. Crop production accounted for more than 85 percent of the total value produced. On average, 36 percent of the value of production was left as net farm income after all expenses were paid.

Table 5. Value of Farm Production by Size of Farm

	Average	Total Value of Gross Sales			
		\$100,000 to \$199,999	\$200,000 to \$399,999	\$400,000 to \$799,999	\$800,000 and above
Value of livestock production					
Value of livestock production	\$29,712	\$6,095	\$10,041	\$13,878	\$112,986
Feed fed	21,111	7,310	8,919	12,637	70,024
Livestock production minus feed cost	8,602	(1,215)	1,122	1,241	42,962
Value of crop production	459,884	133,173	292,539	509,347	1,146,271
Miscellaneous income	30,729	7,560	17,124	34,552	81,844
Crop inventory and marketing gain	38,233	19,096	37,388	48,839	55,531
Value of farm production	\$537,448	\$158,614	\$348,173	\$593,978	\$1,326,608
Allocation of gross revenue					
Operating expense	56%	52%	52%	55%	67%
Interest expense	2%	2%	2%	2%	2%
Depreciation expense	6%	7%	6%	7%	5%
Net farm income	36%	39%	39%	35%	26%
	100%	100%	100%	100%	100%

Efficiency Factors

Efficiency can be measured in many ways. Several efficiency factors are shown in Table 6 for four farm size groups. Larger farms produced more crops and livestock per unit of labor and per dollar of assets invested, but dollar of production per dollar of expense was similar for all size groups. Return on equity showed an average rate of 11.2 percent, while the return on owned assets averaged 10.1 percent.

Table 6. Overall Efficiency Factors by Size of Farm

	Average	Total Value of Gross Sales			
		\$100,000 to \$199,999	\$200,000 to \$399,999	\$400,000 to \$799,999	\$800,000 and above
Crops					
Acres in crops	506	165	368	597	1,120
Crop value per acre	\$855	\$807	\$795	\$854	\$1,023
Crop acres per person	416	283	401	503	538
Machinery cost per crop acre	\$154	\$181	\$149	\$148	\$130
Machinery investment per crop acre	\$477	\$610	\$410	\$446	\$428
Livestock					
Livestock returns per \$100 feed fed	\$101	\$83	\$113	\$104	\$104
Financial					
Value of farm production per person	\$539,623	\$415,085	\$451,908	\$580,664	\$815,050
Value of farm production per \$1 expense	\$1.70	\$1.72	\$1.76	\$1.66	\$1.60
Value of farm production per \$1 assets	\$0.30	\$0.28	\$0.26	\$0.33	\$0.35
% return to owned assets	10.1%	8.7%	9.4%	11.5%	11.9%
% return to equity capital	11.2%	8.8%	10.3%	13.1%	13.8%
Operating profit margin ratio	34%	32%	36%	35%	34%
Average interest rate on debt	5.3%	7.5%	4.2%	4.7%	4.7%

High-, Middle- and Low-profit Farms

Profits vary greatly among farms. In Table 7, farms were ranked by return to management and sorted into three groups. The high third and middle third groups had similar levels of efficiency, but the higher third farms were larger in scale. The middle third and low third groups were similar in scale, but the low third farms were less efficient.

Table 7. Comparison of High- and Low-profit Farms, Ranked by Return to Management ^{1/}

	High Third	Middle Third	Low Third	Your Farm
Farm Income				
Crop sales	\$957,113	\$508,907	\$351,083	_____
Livestock sales	311,912	218,169	241,885	_____
Other income	152,481	51,349	25,217	_____
Accrued income	220,409	98,443	56,250	_____
Gross revenue	\$1,641,915	\$876,868	\$674,435	_____
Operating expenses				
Operating expenses	\$515,231	\$280,798	\$236,991	_____
Fixed expenses	369,814	198,887	157,650	_____
Feed purchased	96,785	67,559	88,634	_____
Livestock purchased	95,034	89,849	80,905	_____
Total expenses	\$1,076,864	\$637,093	\$564,180	_____
Accrual Net Farm Income	\$565,051	\$239,775	\$110,255	_____
Operator and family labor charge	\$34,601	\$29,371	\$26,571	_____
Charge for equity capital	117,543	69,236	65,623	_____
Return to Management	\$412,907	\$141,168	\$18,061	_____
Crops				
Acres in crops	1,446	797	614	_____
Crop value per acre	\$791	\$782	\$749	_____
Crop acres per person	789	625	491	_____
Machinery cost per crop acre	\$126	\$141	\$159	_____
Machinery investment per crop acre	\$422	\$432	\$469	_____
Livestock				
Livestock returns/\$100 feed fed	\$106	\$115	\$92	_____
Financial				
Value of farm production per person	\$902,128	\$596,206	\$468,073	_____
Value of farm production per \$1 expense	\$1.84	\$1.66	\$1.45	_____
Value of farm production per \$1 assets	\$0.37	\$0.37	\$0.25	_____
% return to owned assets	15.1%	14.2%	5.2%	_____
% return to equity	17.6%	16.7%	5.3%	_____
Operating profit margin ratio	0.40	0.43	0.21	_____
Debt-to-asset ratio	0.19	0.20	0.20	_____
Allocation of Value of Gross Revenue				
Operating expense	58%	59%	75%	_____
Interest expense	2%	2%	3%	_____
Depreciation expense	5%	4%	6%	_____
Net farm income	34%	35%	16%	_____

^{1/} Values have not been adjusted for size of business.

Crop Production

Details of crop production income and expenses per acre are summarized in Table 8. Acres rented under a share lease are reduced to reflect only the tenant's share of total costs, so that expenses per acre are comparable to expenses on owned or cash rented acres.

Some expenses, such as cash rent, did not occur on all farms or on all acres, but are shown as the average cost over all acres. Total economic costs include a 4 percent opportunity cost charge for the farm net worth capital, a depreciation charge, and a charge for operator and family labor.

Table 8. Crop Production

	All Corn	Soybeans	Alfalfa Hay	Oats
Acres, operator share	253	200	20	17
Yield, bushels or tons per acre	149	48	4.1	64
Selling price per bushel or ton	\$6.45	\$13.07	\$139.67	\$2.81
Crop value per acre	\$1,010	\$615	\$701	\$257
Crop Expenses				
Seed per acre	\$103.47	\$55.54	\$12.63	\$21.69
Fertilizer and lime	188.73	38.77	52.22	7.38
Herbicide	39.11	34.47	0.64	5.70
Insecticide	6.21	6.61	1.75	0.00
Drying and storage	8.08	1.60	0.03	0.28
Machinery, fuel, repairs, machine hire	91.72	81.62	65.36	58.93
Utilities	10.29	9.49	8.60	7.62
Insurance	32.10	30.42	14.95	11.35
Hired labor	6.79	8.11	8.61	14.43
Interest	23.73	20.90	22.08	14.32
Cash rent	114.92	103.59	49.61	72.00
Property taxes and building repairs	26.99	23.35	28.46	20.56
Other crop expenses	20.59	17.40	13.47	19.36
Total cash crop expenses	\$672.73	\$431.88	\$278.42	\$253.61
Machinery depreciation	\$55.32	\$50.92	\$34.42	\$40.57
Building depreciation	12.03	12.60	11.71	6.17
Charge for equity capital	123.09	116.12	115.97	119.28
Unpaid labor value	64.98	58.81	56.79	33.10
Total economic cost per acre	\$928.15	\$670.34	\$497.29	\$452.73
Total economic cost per bushel or ton	\$6.24	\$13.64	\$126.91	\$7.15
Total cash expenses per bushel or ton	\$4.52	\$8.98	\$73.25	\$2.94

Trends

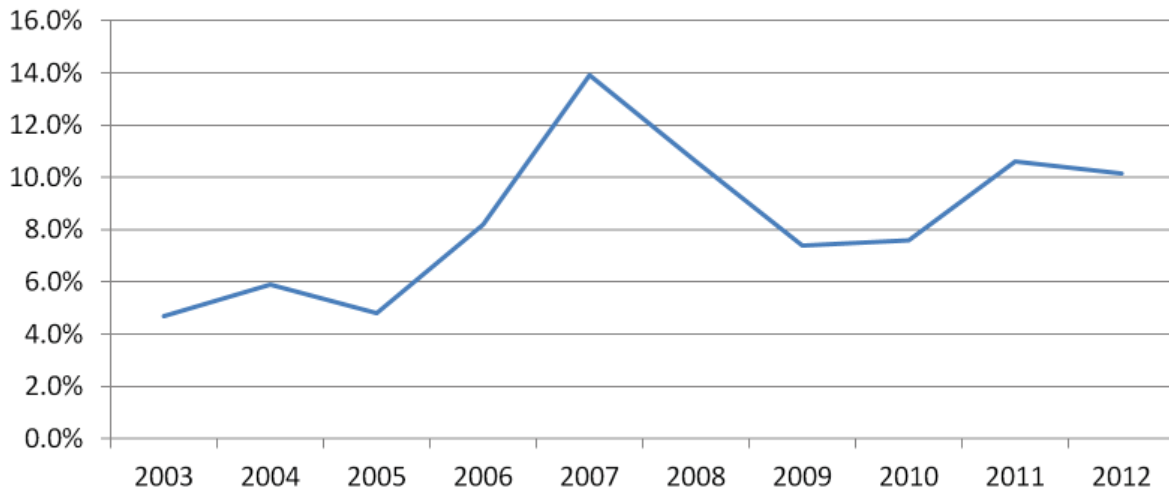
Table 9 illustrates trends in production and financial efficiency over the past 10 years. Livestock income per \$100 feed fed has shown a cyclical pattern throughout the period. The average in 2012 of \$101 was the lowest in the 10-year period and well below the 10-year average of \$152.

The average corn yield of 149 was the lowest in the 10-year period and well below the average for the past decade of 169. The value of farm production per dollar of expense was similar to 2011. Crop value per acre was the highest recorded in the past 10 years, due to very favorable selling prices. The percent return to owned assets was down slightly from 2011, but still above the average for the 10-year period.

Table 9. Trends in Production and Financial Efficiency on Iowa Farms

Year	Livestock Income per \$100 Feed Fed	Corn Yield per Acre	Value of Farm Production per \$1 Expense	Crop Value per Acre	Percent Return to Owned Assets
2003	181	155	1.28	319	4.7%
2004	186	181	1.32	322	5.9%
2005	203	165	1.27	335	4.8%
2006	178	166	1.47	454	8.2%
2007	147	171	1.57	576	13.9%
2008	124	179	1.39	541	10.6%
2009	118	183	1.43	562	7.4%
2010	149	174	1.52	584	7.6%
2011	135	172	1.71	671	10.6%
2012	101	149	1.70	855	10.1%
10-year average	\$152	169	\$1.47	\$522	8.4%

Percent Return to Owned Assets



Costs and Returns of Specialized Farms

Table 10 summarizes the average accrual livestock income per \$100 feed fed over the past 10 years for farms specializing in farrow to finish hog production, beef feeding, dairy, and beef raising. Farrow to finish farms were the most profitable farm type in 2012, but all farm types had ratios far below their 10-year averages.

Table 11 shows the percent return to owned assets for specialized farms. This is calculated by adding interest expense to the net farm income for the farm, subtracting a charge for operator and family labor, and dividing by the value of total farm assets owned. Farrow to finish farms had the highest return to capital in 2012 with an average of 11.6 percent, followed by beef feeding farms with a return of 11.0 percent. All farms, with the exception of dairy, had a return to owned assets that was above their 10-year average. However, much of their net income came from crop production.

Table 10. Livestock Income per \$100 Feed Fed for Specialized Farms

Year	Farrow to Finish	Beef Feeding	Dairy	Beef Raising
2003	158	207	184	197
2004	201	185	220	198
2005	206	190	227	222
2006	180	149	200	160
2007	139	131	249	164
2008	116	127	155	113
2009	122	128	148	115
2010	158	145	138	151
2011	159	143	168	156
2012	121	114	N/A	111
10-year average	156	152	N/A	159

Table 11. Return to Owned Assets for Specialized Farms

Year	Percent Return to Owned Assets				
	Farrow to Finish	Beef Feeding	Cash Grain	Dairy	Beef Raising
2003	5.6%	12.0%	5.8%	6.6%	5.7%
2004	12.5%	8.2%	7.9%	11.8%	5.8%
2005	11.1%	5.9%	7.5%	9.6%	7.2%
2006	12.3%	8.7%	14.4%	10.5%	8.1%
2007	11.7%	13.0%	15.7%	14.6%	12.6%
2008	5.9%	8.9%	7.1%	12.2%	6.8%
2009	4.6%	7.4%	9.9%	7.8%	6.9%
2010	8.8%	10.0%	N/A	6.1%	7.6%
2011	13.2%	14.6%	N/A	12.6%	12.6%
2012	11.6%	11.0%	N/A	7.8%	10.3%
10-year average	9.7%	10.0%	N/A	10.0%	8.4%

Table 12 summarizes resources, production, income, expenses and efficiency for farms specializing in farrow to finish, beef feeding, dairy and beef raising. These data were not corrected for farm size, so are not comparable to the data in Tables 1 to 9.

Table 12. Characteristics of Specialized Farms

	Farrow to Finish	Beef Feeding	Dairy	Beef Raising
Resources Used				
Labor months	29	28	61	16
Current assets	\$916,740	\$1,219,223	\$724,877	\$730,034
Machinery	434,112	533,785	458,265	367,600
Breeding stock	42,174	27,381	257,856	51,843
Land and buildings	1,258,604	1,469,945	1,511,431	1,251,518
Total farm assets	\$2,651,630	\$3,250,334	\$2,952,429	\$2,400,995
Total farm liabilities	461,798	967,199	786,732	519,354
Farm net worth	\$2,189,832	\$2,283,135	\$2,165,697	\$1,881,641
Gross Revenue	\$1,064,273	\$1,587,494	\$986,461	\$794,843
Sources of Farm Production				
Total livestock increase	\$383,120	\$445,342	N/A	\$102,403
Less feed fed to livestock	315,767	390,788	N/A	91,965
Livestock increase over feed fed	\$67,353	\$54,554	\$227,753	\$10,438
Crop production	757,025	951,173	678,898	654,574
Miscellaneous	43,862	112,164	69,246	38,603
Crop inventory gain or loss	71,130	29,794	10,402	49,912
Value of farm production	\$939,370	\$1,147,685	\$986,299	\$753,527
Expenses				
Operating	\$390,525	\$494,118	\$560,762	\$303,743
Fixed	225,922	302,725	193,912	186,080
Financial Returns				
Net farm income, accrual	\$322,923	\$350,842	\$231,625	\$263,704
Charge for operator, family labor	35,326	33,700	42,333	33,820
Charge for equity capital	87,146	91,191	87,923	74,763
Return to management	\$200,451	\$225,951	\$101,369	\$155,121
Efficiency				
Machinery cost/crop acre	\$133	\$142	\$169	\$139
Livestock increase/\$100 feed fed	121	114	N/A	111
Value of farm production per person	\$536,288	\$633,342	\$313,934	\$587,282
Value of farm production per \$1 expense	\$1.62	\$1.54	\$1.40	\$1.61
Value of farm production per \$1 assets	\$0.35	\$0.35	\$0.33	\$0.31
Return on owned assets	11.6%	11.0%	7.8%	10.3%
Return on equity	13.1%	13.9%	8.7%	12.0%
Financial Ratios				
Debt-to-asset ratio	0.17	0.30	0.27	0.22
Current ratio	6.58	3.21	7.82	4.25
Working capital	\$777,345	\$839,283	\$632,159	\$558,051
Working capital per \$ of gross revenue	0.73	0.53	0.64	0.70

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