Enterprise Analysis Summary for 2012 Crops on Cash Rented Land

Bottineau, Minot and Rugby Farm and Ranch Business Management Education Programs

ſ	Barley	Beans, Pinto	Canola	Corn	Flax	Peas, Field
Number of Fields	86		68	51	30	
Number of Farms	33		28	26	12	
Acres	123.48		142.94	95.46	87.57	
Yield per Acres (bu or cwt)	63.12		13.28	91.18	17.56	
Value per bushel/cwt	\$6.66		\$27.61	\$6.47	\$13.46	
Other Product Return per Acre	\$0.09			\$0.45	\$0.03	
Total Product Return per Acre	\$420.74		\$366.70	\$590.32	\$236.35	
Crop Insuance, LDP & Other Income	\$1.03		\$14.63	\$2.22	\$5.18	
Gross Return per Acre	\$421.77		\$381.33	\$592.54	\$241.53	
Direct Costs per Acre	·			·		
Seed	22.80		49.41	78.16	16.18	
Fertilizer	55.42		71.64	81.18	43.62	
Chemicals	35.61		20.47	20.49	28.14	
Crop Insurance	18.78		13.30	24.04	13.50	
Drying	0.07			1.32	20.00	
Fuel and Oil	17.65		18.63	25.79	15.16	
Repairs	20.65		21.77	35.19	12.76	
Custom Work	4.63		6.87	8.03	4.77	
Land Rent	42.34		42.77	43.28	41.01	
Operating Interest	3.69		2.92	6.14	2.78	
Miscellaneous Crop Expenses	0.42		0.63	0.55	2.70	
Total Direct Costs per Acre	\$222.06		\$248.41	\$324.17	\$177.92	
Return to Overhead per Acre	\$199.71		\$132.92	\$268.37	\$63.61	
Overhead Costs per Acre	+ ->>		4-0-17-1	7-22121	700.00	
Hired Labor	8.51		6.42	13.65	4.55	
Machinery & Building Leases	3.59		4.77	4.82		
Farm Insurance	3.46		3.01	3.95	3.06	
Utilities	2.02		1.69	2.76	1.50	
Dues and Professional Fees	1.63		1.24	1.70	0.72	
Interest on Term Loans	3.56		2.53	3.45	2.18	
Machinery and Building Depr.	14.61		11.48	28.17	7.02	
Miscellaneous Farm Expenses	3.81		2.70	4.45	3.36	
Total Overhead Costs per Acre	\$41.19		\$33.84	\$62.95	\$22.39	
Total Listed Costs per Acre	\$263.25		\$282.25	\$387.12	\$200.31	
Net Return per Acre	\$158.52		\$99.08	\$205.42	\$41.22	
Government Payments per Acre	9.61		9.75	9.55		
Net Return with Gov. Payments					9.68	
Labor & Management Charge	\$168.13		\$108.83	\$214.97	\$50.90	
o o	25.97		24.89	38.70	20.82	
Net Return over Labor & Mngt.	\$142.16		\$83.94	\$176.27	\$30.08	
Total Direct Costs per Bu/Cwt	3.52		18.71	3.56	10.13	
Total Listed Costs per Bu/Cwt	4.17		21.25	4.25	11.41	
Listed Costs per Bu/Cwt Less	4.00		19.42	4.11	10.56	
Government Payments						
Costs per bu/Cwt Less Gov.	4 4 4		21.20	4.5.4	1174	
Payments, Other Income &	4.41		21.29	4.54	11.74	
Labor & Management Charge	(2.42		64.04	102.22	41.46	
Machinery Cost per Acre	62.68		64.91	102.22	41.46	
Estimated Labor Hours per Acre	1.28		1.23	1.94	1.09	







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		Sunflowers,	Sunflowers,		Wheat, Hard	Wheat, Hard
	Soybeans	Confectionary	Oil	Wheat, Durum	Red Spring	Red Winter
Number of Fields	70		31	31	171	39
Number of Farms	32		16	8	53	15
Acres	167.4		119.06	114.16	143.35	113.19
Yield per Acres (bu or cwt)	30.15		18.97	37.27	41.28	59.07
Value per bushel/cwt	\$13.92		\$26.21	\$7.93	\$8.04	\$7.56
Other Product Return per Acre			\$0.06			\$0.48
Total Product Return per Acre	\$419.64		\$497.30	\$295.60	\$331.75	\$446.86
Crop Insuance, LDP & Other Income	\$22.91			\$22.50	\$5.97	\$3.27
Gross Return per Acre	\$442.55		\$497.30	\$318.10	\$337.72	\$450.13
Direct Costs per Acre						
Seed	71.14		39.31	23.03	22.12	17.06
Fertilizer	21.49		49.19	75.50	60.03	63.32
Chemicals	18.99		38.62	33.91	30.70	33.27
Crop Insurance	17.30		19.32	16.40	15.46	16.77
Drying			0.26			
Fuel and Oil	17.03		19.36	15.36	17.21	19.32
Repairs	23.67		24.18	14.83	21.71	17.34
Custom Work	5.17		11.37	12.95	3.69	13.43
Land Rent	40.84		39.72	36.53	40.13	41.48
Operating Interest	4.45		5.05	1.96	3.86	3.08
Miscellaneous Crop Expenses	1.06		0.67	0.15	0.63	0.26
Total Direct Costs per Acre	\$221.14		\$247.05	\$230.62	\$215.54	\$225.33
Return to Overhead per Acre	\$221.41		\$250.25	\$87.48	\$122.18	\$224.80
Overhead Costs per Acre						
Hired Labor	6.18		8.84	3.98	6.50	8.07
Machinery & Building Leases	5.19		0.27	3.29	3.97	5.50
Farm Insurance	4.28		2.95	3.70	3.50	3.03
Utilities	2.91		1.37	1.98	2.20	2.21
Dues and Professional Fees	1.23		1.31	0.58	1.15	2.24
Interest on Term Loans	4.19		2.10	3.38	3.31	3.18
Machinery and Building Depr.	19.37		11.17	18.27	14.58	15.03
Miscellaneous Farm Expenses	2.72		1.87	2.66	2.34	4.17
Total Overhead Costs per Acre	\$46.07		\$29.88	\$37.84	\$37.55	\$43.43
Total Listed Costs per Acre	\$267.21		\$276.93	\$268.46	\$253.09	\$268.76
Net Return per Acre	\$175.34		\$220.37	\$49.64	\$84.63	\$181.37
Government Payments per Acre	10.52		9.26	8.58	10.02	9.79
Net Return with Gov. Payments	\$185.86		\$229.63	\$58.22	\$94.65	\$191.16
Labor & Management Charge	27.34		25.92	24.93	23.03	25.87
Net Return over Labor & Mngt.	\$158.52		\$203.71	\$33.29	\$71.62	\$165.29
Total Direct Costs per Bu/Cwt	7.33		13.02	6.19	5.22	3.81
Total Listed Costs per Bu/Cwt	8.86		14.60	7.20	6.13	4.55
Listed Costs per Bu/Cwt Less						
Government Payments	7.75		14.11	6.37	5.74	4.32
Costs per bu/Cwt Less Gov.						
Payments, Other Income &	8.66		15.47	7.04	6.30	4.76
Labor & Management Charge	0.00		13.17	7.01	0.50	1.70
Machinery Cost per Acre	72.57		67.32	67.38	62.78	71.75
Estimated Labor Hours per Acre	1.23		1.54	1.04	1.23	1.34
Estimated Labor Hours per Acre	1.43		1.34	1.04	1.43	1.54

For more information or to sign up for the DCB Farm & Ranch Business Management Education Program contact one of the following instructors:

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Enterprise Analysis Summary for 2012 Crops on Cash Rented Land

Bottineau, Minot and Rugby Farm and Ranch Business Management Education Programs

			Hay, Mixed		Hay, Small	
	Corn Silage	Hay, Alfalfa	Alfalfa/Grass	Hay, Grass	Grain	Pasture
Number of Fields	Combinage	21	29	67	Gram	114
Number of Farms		14	19	30		39
Acres		45.99	62.58	116.01		282.92
Yield per Acres (tons or AUMs)		2.16	1.8	1.32		0.88
Value per ton or AUM		\$67.11	\$43.85	\$37.91		\$16.19
Other Product Return per Acre		\$0.34	Φ43.63	\$57.91		\$10.19 \$0.41
Total Product Return per Acre		\$145.30	\$78.93	\$50.04		\$0.41 \$14.66
		\$145.50	\$78.93 \$0.07	\$30.04		\$14.66 \$0.09
Crop Insuance, LDP & Other Income Gross Return per Acre		\$145.30	\$79.00	\$50.04		\$14.75
Direct Costs per Acre		\$145.50	\$79.00	\$30.04		\$14.73
Seed						
Fertilizer		3.04				
		3.04				
Chemicals						
Crop Insurance		0.04	10.20	0.07		0.40
Fuel and Oil		9.84	10.38	8.87		0.49
Repairs		12.02	11.87	10.67		0.75
Custom Work		10.70	12.25	11.02		11.66
Land Rent		18.79	13.35	11.92		11.66
Operating Interest		1.92	1.55	1.40		0.21
Miscellaneous Crop Expenses		Φ 45° C1	0.70	0.20		0.31
Total Direct Costs per Acre		\$45.61	\$37.85	\$33.06		\$13.21
Return to Overhead per Acre		\$99.69	\$41.15	\$16.98		\$1.54
Overhead Costs per Acre		1.04	1.02	2.52		
Hired Labor		1.94	1.82	3.53		
Machinery & Building Leases		0.09	0.26			
Farm Insurance		1.95	1.86	1.24		
Utilities		1.97	1.12	0.82		
Dues and Professional Fees		0.30	0.83			
Interest on Term Loans		2.34	2.43	0.73		
Machinery and Building Depr.		8.35	5.59	6.77		0.37
Miscellaneous Farm Expenses		0.76	1.60	1.27		0.68
Total Overhead Costs per Acre		\$17.70	\$15.51	\$14.36		\$1.05
Total Listed Costs per Acre		\$63.31	\$53.36	\$47.42		\$14.26
Net Return per Acre		\$81.99	\$25.64	\$2.62		\$0.49
Government Payments per Acre		1.67	1.42	0.03		0.07
Net Return with Gov. Payments		\$83.66	\$27.06	\$2.65		\$0.56
Labor & Management Charge		10.57	12.38	11.55		0.71
Net Return over Labor & Mngt.		\$73.09	\$14.68	-\$8.90		-\$0.15
Total Direct Costs per Ton/AUM		21.12	21.03	25.05		15.01
Total Listed Costs per Ton/AUM		29.31	29.64	35.92		16.20
Listed Costs per Ton/AUM Less		28.38	28.82	35.90		15.56
Government Payments		26.36	20.02	33.90		15.50
Costs per Ton/AUM Less Gov.						
Payments, Other Income &		33.27	35.69	44.65		16.36
Labor & Management Charge						
Machinery Cost per Acre		31.98	31.07	27.01		1.77
Estimated Labor Hours per Acre		0.80	0.80	0.87		0.05







Enterprise Analysis Summary for 2012 Livestock

Bottineau, Minot and Rugby Farm and Ranch Business Management Education Programs

Г	Beef Cow-Calf		Beef Backgrounding		
	Average per Cow		Average per CWT Produced		
Number of Farms	29		20		
	Quantity	Value	Quantity	Value	
Beef Calves Sold (pounds)	141.70	222.71	281.51	414.57	
Transferred Out (pounds)	345.20	528.91	76.07	95.63	
Cull Sales (pounds)		162.81			
Other Income		2.13		0.38	
Less Purchased (pounds)		-184.80	-3.15	-5.02	
Less Transferred In (pounds)		-161.57	-312.26	-480.52	
Inventory Change (pounds)	0.00	135.41	57.75	93.95	
Gross Margin (Production in pounds)	486.90	\$705.60	99.92	\$118.99	
Direct Expenses					
Barley (bushels)			0.14	0.77	
Corn (bushels)	0.80	5.02	3.05	17.26	
Oats (bushels)			1.25	4.18	
Corn & Other Silage (pounds)	2502.60	35.98	413.12	7.73	
Hay, Alfalfa (pounds)	659.20	10.80	91.01	1.98	
Hay, Grass and Other (pounds)	6953.00	123.89	792.86	13.48	
Complete Rations (pounds)	55.80	5.57	158.84	20.29	
Protein, Vitamins & Minerals (lbs)	66.50	15.05	2.93	0.98	
Pasture (animal unit months)	6.90	103.37	0.26	6.50	
Other Feed Stuffs (pounds)	312.80	10.54	21.13	0.22	
Veterinary		32.29			
Livestock Supplies		14.81		1.98	
Fuel and Oil		30.32		2.73	
Repairs		52.80		7.60	
Custom Hire		4.83			
Other Direct Expenses		1.08		3.71	
Operating Interest		8.42		1.52	
Total Direct Costs per Acre		\$454.77		\$90.93	
Return Over Direct Expenses		\$250.83		\$28.06	
Overhead Expenses					
Hired Labor		12.53		2.26	
Machinery & Building Leases					
Farm Insurance		9.14		1.36	
Utilities		12.81		1.95	
Dues and Professional Fees		2.67			
Interest on Term Loans		8.20		1.45	
Machinery and Building Depr.		31.43		4.05	
Miscellaneous Farm Expenses		6.36		1.18	
Total Overhead Expenses		\$83.14		\$12.25	
Total Direct & Overhead Expenses		\$537.91		\$103.18	
Net Return		\$167.69		\$15.81	
Labor & Management Charge		76.94		10.71	
Net Return over Labor & Mngt.		\$90.75		\$5.10	
Feed Cost per Cow/Cwt Produced		\$310.22		\$73.39	
Weaning Percentage		85.7%		,	
Average Weaning Weight		530			
Average Daily Gain		220		1.20	
Pounds of Feed per Pound of Gain				15.02	
Est. Labor Hours per Cow/Cwt Prod.		5.66		0.72	

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Executive Summary for 2012

Bottineau, Minot and Rugby Farm and Ranch Business Management Education Programs

Income Statement

Financial Standards Measures

Crop Sales	473,838		Liquidity	Beginning	Ending
Crop Inventory Change	144,556		Current Ratio	2.51	2.30
Gross Crop Income		618,394	Working Capital	259,157	339,364
Livestock Sales	74,238		Working Capital to Gross Rev.		42.8%
Livestock Inventory Change	7,941				
Gross Livestock Income		82,179	Solvency (Cost)	Beginning	Ending
Government Payments		26,589	Debt to Asset Ratio	32.7%	33.7%
Other Cash Farm Income		46,824	Equity to Asset Ratio	65.4%	64.0%
Change in Accounts Receivable		13,507	Debt to Equity	52.9%	56.3%
Gain or Loss on Hedging Accts.		-312			
Change in Other Assets		-709	Profitability		Cost
Gain or Loss on Breeding Lvst.		-3,387	Rate of Return on Assets		14.0%
Gross Farm Income		783,085	Rate of Return on Equity		19.4%
			Operating Profit Margin		29.5%
Cash Operating Expense	454,676		Net Farm Income		261,625
Change in Prepaid Exp. & Sup.	-7,868		EBITDA		320,667
Change in Growing Crops	-4,978				
Change in Accounts Payable	5,038		Repayment Capacity		
Depreciation	35,166		Capital Debt Repayment Cap.		276,312
Total Operating Expense		482,034	Capital Debt Repayment Margin		203,317
Interest Paid	36,098		Replacement Margin		184,539
Change in Accrued Interest	3,328		Term Debt Coverage Ratio		3.79
Total Interest Expense		39,426	Replacement Margin Coverage Ratio		3.01
Total Expenses		521,460			
			Efficiency		Cost
Net Farm Income from Operations		261,625	Asset Turnover Rate		47.4%
Gain or Loss on Capital Sales		-1,490	Operating Expense Ratio		59.6%
Net Farm Income		260,135	Depreciation Expense Ratio		4.4%
			Interest Expense Ratio		3.0%
Change in Earned Net Worth	235,560	20.8%	Net Farm Income Ratio		32.8%







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