Enterprise Analysis Summary for 2014 Crops on Cash Rented Land

	Barley	Beans, Pinto	Canola	Corn	Flax	Peas, Field
Number of Farms	16		19	19	6	7
Yield per Acres (bu or cwt)	74.44		19.67	119.65	24.28	43.34
Value per bushel/cwt	\$5.14	r	\$16.23	\$2.94		\$7.43
Other Product Return per Acre	\$1.05	r				
Total Product Return per Acre	\$383.62	r	\$319.33	\$351.58	\$306.42	\$322.14
Crop Insuance, LDP & Other Income	\$1.00	r	\$5.38	\$5.89	\$4.62	\$10.90
Gross Return per Acre	\$384.62		\$324.71	\$357.47	\$311.04	\$333.04
Direct Costs per Acre						
Seed	22.70	r	56.65	81.92	22.17	59.35
Fertilizer	52.06	r	71.52	97.12	53.30	15.23
Chemicals	37.68	r	27.58	30.96	0.00	58.79
Crop Insurance	14.71	r	11.63	17.92	r	16.03
Drying	2.72		0.36	2.18		1.70
Fuel and Oil	21.35	r	19.87	38.52	22.11	22.92
Repairs	25.10		23.22	42.37	25.11	35.70
Custom Work	10.95		12.89	6.28	2.07	7.60
Land Rent			46.60	43.66	43.02	39.94
Machinery & Building Leases			0.11			
Operating Interest	6.38		4.78	6.42	6.88	6.41
Miscellaneous Crop Expenses	49.80	r	0.36	0.62		0.69
Total Direct Costs per Acre	\$243.45		\$275.57	\$367.97	\$174.66	\$264.36
Return to Overhead per Acre	\$141.17		\$49.14	-\$10.50	\$136.38	\$68.68
Overhead Costs per Acre						
Hired Labor	10.06	•	6.03	18.78	2.03	9.16
Machinery & Building Leases	2.18	-	1.43	6.49	0.80	0.63
Farm Insurance	4.13	r (3.74	5.11	5.82	5.93
Utilities	2.99	-	1.87	4.22	3.07	3.28
Dues and Professional Fees	1.36	r (1.01	1.08	0.79	0.71
Interest on Term Loans	5.08	-	4.05	4.74	4.64	4.67
Machinery and Building Depr.	30.14	r (25.34	46.03	27.12	38.37
Miscellaneous Farm Expenses	4.60	-	2.41	8.86	1.93	4.48
Total Overhead Costs per Acre	\$60.54		\$45.88	\$95.31	\$46.20	\$67.23
Total Listed Costs per Acre	\$303.99		\$321.45	\$463.28	\$220.86	\$331.59
Net Return per Acre	\$80.63		\$3.26	-\$105.81	\$90.18	\$1.45
Government Payments per Acre	0.00		0.00	0.00	0.00	3.04
Net Return with Gov. Payments	\$80.63		\$3.26	-\$105.81	\$90.18	\$4.49
Labor & Management Charge	26.31		28.07	37.61	23.34	28.08
Net Return over Labor & Mngt.	\$54.32		-\$24.81	-\$143.42	\$66.84	-\$23.59
Total Direct Costs per Bu/Cwt	3.27		14.01	3.08	8.53	6.10
Total Listed Costs per Bu/Cwt	4.08		16.34	3.87	10.43	7.65
Listed Costs per Bu/Cwt Less						
Government Payments	4.06		16.07	3.82	10.24	7.33
Costs per bu/Cwt Less Gov.						
Payments, Other Income &	4.41		17.50	4.14	11.20	7.98
Labor & Management Charge						
Machinery Cost per Acre	94.80		85.58	142.18	79.31	106.14
Estimated Labor Hours per Acre	1.37		1.37	2.46	0.99	1.35
Louinated Labor Hours per Acte	1.37		1.57	2.70	0.79	1.33

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



North Dakota Farm/Ranch Business Management Education





Enterprise Analysis Summary for 2014 Crops on Cash Rented Land

		Sunflowers,	Sunflowers,		Wheat, Hard	Wheat, Hard
	Soybeans	Confectionary	Oil	Wheat, Durum	Red Spring	Red Winter
Number of Farms	37	concettoning	9	When the second second	47	15
Yield per Acres (bu or cwt)	30.35		17.09		53.22	43.89
Value per bushel/cwt	\$9.75		\$20.77		\$5.41	\$4.71
Other Product Return per Acre	\$0.20		φ20.77		\$0.05	ψ4.71
Total Product Return per Acre	\$296.11		\$354.99		\$287.84	\$206.51
Crop Insuance, LDP & Other Income	\$16.72		\$12.72		\$8.51	\$34.29
Gross Return per Acre	\$312.83		\$367.71		\$296.35	\$240.80
Direct Costs per Acre	φ312.03		ψ507.71		φ270.33	φ2-10.00
Seed	79.40		50.29		19.83	17.97
Fertilizer	20.03		67.67		57.80	69.83
Chemicals	20.03		43.47		39.39	38.39
Crop Insurance	15.52		16.46		14.90	12.01
Drying	15.52		1.74		0.95	0.86
Fuel and Oil	22.10		21.81		0.93 19.87	21.70
Repairs	25.38		33.37		25.70	24.53
Custom Work	6.40		10.85		6.69	7.61
Land Rent	46.71		46.49		45.53	52.17
	5.19		40.49 6.45		45.55	5.19
Operating Interest Miscellaneous Crop Expenses	1.13		1.09		4.91	0.71
Total Direct Costs per Acre	\$246.45		\$299.69		\$237.37	\$250.97
Return to Overhead per Acre	\$66.38		\$299.09 \$68.02		\$237.37 \$58.98	\$2.30.97 -\$10.17
Overhead Costs per Acre	\$00.38		φ08.02		\$30.90	-\$10.17
Hired Labor	9.80		9.87		8.48	9.81
Machinery & Building Leases	9.80 2.52		9.87		8.48 1.42	1.73
Farm Insurance	4.49				4.23	
Utilities	4.49 3.42		4.59 1.70		4.25	4.52 3.21
Dues and Professional Fees	5.42 1.21		0.90		5.02 1.15	0.44
Interest on Term Loans	4.80		0.90 2.70		3.52	4.05
	4.80 23.42		31.83		5.52 25.54	4.03
Machinery and Building Depr.	5.36		2.22		4.63	
Miscellaneous Farm Expenses						4.08
Total Overhead Costs per Acre	\$55.02		\$55.48		\$51.99	\$59.66
Total Listed Costs per Acre	\$301.47		\$355.17		\$289.36	\$310.63
Net Return per Acre	\$11.36		\$12.54		\$6.99	-\$69.83
Government Payments per Acre	0.00		0.00		0.21	0.00
Net Return with Gov. Payments	\$11.36		\$12.54		\$7.20	-\$69.83
Labor & Management Charge	26.16		33.86		24.65	24.59
Net Return over Labor & Mngt.	-\$14.80		-\$21.32		-\$17.45	-\$94.42
Total Direct Costs per Bu/Cwt	8.12		17.54		4.46	5.72
Total Listed Costs per Bu/Cwt	9.93		20.78		5.44	7.08
Listed Costs per Bu/Cwt Less	9.38		20.04		5.27	6.30
Government Payments						
Costs per bu/Cwt Less Gov.						
Payments, Other Income &	10.24		22.02		5.74	6.86
Labor & Management Charge						
Machinery Cost per Acre	84.86		99.45		82.65	89.25
Estimated Labor Hours per Acre	1.47		1.33		1.37	1.39

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

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BillieJo Shae (Minot location) Phone: (701) 420-1802 email: billiejo.shae@dakotacollege.edu Address: NW ND CTE Center 1100 11th Ave SW Minot, ND 58701-4206 Allen Graner (Rugby location) Phone: (701) 776-5095 email: allen.graner@dakotacollege.edu Address: 1123 South Main Rugby, ND 58368-2428 Rodney Armstrong (Bottineau location) Phone: (701) 228-5481 rodney.armstrong@dakotacollege.edu Address: 105 Simrall Boulevard Bottineau, ND 58318-1198

Enterprise Analysis Summary for 2014 Forage Crops on Cash Rented Land

			Hay, Mixed		Hay, Small	
	Corn Silage	Hay, Alfalfa	Alfalfa/Grass	Hay, Grass	Grain	Pasture
Number of Farms	Combinage	6	10	15	Gium	6
Yield per Acres (tons or AUMs)		2.44	1.40	0.79		0.92
Value per ton or AUM		\$81.82	1.40	\$38.09		\$16.65
Other Product Return per Acre		φ01.02		φ50.09		\$0.27
Total Product Return per Acre		\$199.64	\$64.62	\$30.09		\$15.59
Crop Insuance, LDP & Other Income		\$5.90	\$0.52	\$50.07		\$0.70
Gross Return per Acre		\$205.54	\$65.14	\$30.09		\$16.29
Direct Costs per Acre		φ205.54	φ05.14	φ50.07		ψ10.2 <i>)</i>
Seed						
Fertilizer		34.72				
Chemicals		54.72		1.11		
Crop Insurance		1.93		1.11		
Fuel and Oil		16.02	7.58	9.95		0.53
Repairs		23.88	12.72	11.90		0.55
Custom Work		1.55	12.72	11.90		0.70
Land Rent		26.61	25.27	11.01		14.62
		3.08	1.94	1.00		14.02
Operating Interest		0.08	0.04	0.08		0.37
Miscellaneous Crop Expenses						
Total Direct Costs per Acre		\$107.87 \$97.67	\$47.55	\$35.05 -\$4.96		\$16.22 \$0.07
Return to Overhead per Acre		\$97.07	\$17.59	-\$4.90		<u>\$0.07</u>
Overhead Costs per Acre		6.02	0.75	4.47		
Hired Labor		6.03				
Machinery & Building Leases		0.43	0.47	0.63		
Farm Insurance		2.86	2.41	1.40		
Utilities		2.52	1.70	0.86		
Dues and Professional Fees		0.54	1.42	0.75		
Interest on Term Loans		2.72	3.16	0.75		0.61
Machinery and Building Depr.		16.42	13.19	10.53		0.64
Miscellaneous Farm Expenses		1.18	0.27	0.65		0.63
Total Overhead Costs per Acre		\$32.70	\$23.37	\$19.29		\$1.27
Total Listed Costs per Acre		\$140.57	\$70.92	\$54.34		\$17.49
Net Return per Acre		\$64.97	-\$5.78	-\$24.25		-\$1.20
Government Payments per Acre		0.00	0.00	0.00		0.00
Net Return with Gov. Payments		\$64.97	-\$5.78	-\$24.25		-\$1.20
Labor & Management Charge		19.61	21.67	11.44		0.79
Net Return over Labor & Mngt.		\$45.36	-\$27.45	-\$35.69		-\$1.99
Total Direct Costs per Ton/AUM		44.21	33.96	44.37		17.63
Total Listed Costs per Ton/AUM		57.61	50.66	68.78		19.01
Listed Costs per Ton/AUM Less		55.19	50.29	68.78		17.96
Government Payments						
Costs per Ton/AUM Less Gov.						
Payments, Other Income &		63.23	65.76	83.26		18.81
Labor & Management Charge						
Machinery Cost per Acre		61.60	37.22	33.09		1.96
Estimated Labor Hours per Acre		1.47	1.55	0.84		0.06

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



North Dakota Farm/Ranch Business Management Education





Enterprise Analysis Summary for 2014 Livestock

	Beef Cov		Beef Backgrounding		
	Average per Cow		Average per CWT Produce		
Number of Farms	28		14		
I	Quantity	Value	Quantity	Value	
Beef Calves Sold (pounds)	205.70	553.19	337.06	672.73	
Transferred Out (pounds)	273.00	689.95	125.95	243.80	
Cull Sales (pounds)		238.08			
Other Income		9.95			
Less Purchased (pounds)		-173.81	-0.99	-2.0	
Less Transferred In (pounds)		-91.25	-196.89	-527.3	
Inventory Change (pounds)	25.60	111.67	-165.13	-247.1	
Gross Margin (Production in pounds	504.30	\$1,337.78	100.00	\$140.0	
Direct Expenses					
Barley (bushels)			1.49	3.5	
Corn (bushels)			2.73	8.8	
Oats (bushels)					
Corn & Other Silage (pounds)	2221.00	31.82	514.41	4.9	
Hay, Alfalfa (pounds)	614.50	19.13	99.19	2.5	
Hay, Grass and Other (pounds)	7115.80	151.49	707.76	15.6	
Complete Rations (pounds)	47.40	6.09	27.41	2.3	
Protein, Vitamins & Minerals (lbs)	173.80	28.61	61.09	10.0	
Pasture (animal unit months)	7.10	105.21	0.05	1.0	
Other Feed Stuffs (pounds)	477.30	13.52	64.20	2.9	
Veterinary		29.59			
Livestock Supplies		28.88		1.8	
Fuel and Oil		41.21		2.7	
Repairs		65.80		4.8	
Custom Hire		14.79		1.0	
Other Direct Expenses		14.43		0.8	
Operating Interest		10.92		1.4	
Total Direct Costs/Cow/Cwt Prod.		\$561.49		\$64.8	
Return Over Direct Expenses		\$776.29		\$75.1	
Overhead Expenses					
Hired Labor		21.33		1.2	
Machinery & Building Leases					
Farm Insurance		13.12		1.2	
Utilities		13.61		1.9	
Dues and Professional Fees		4.75		0.4	
Interest on Term Loans		9.45		1.0	
Machinery and Building Depr.		56.51		4.7	
Miscellaneous Farm Expenses		6.90		0.7	
Fotal Overhead Expenses		\$125.67		\$11.3	
Total Direct & Overhead Expenses		\$687.16		\$76.2	
Net Return		\$650.62		\$63.8	
Labor & Management Charge		83.55		7.6	
Net Return over Labor & Mngt.		\$567.07		\$56.1	
Feed Cost per Cow/Cwt Produced		\$355.87		\$52.0	
Weaning Percentage		82.9%			
Average Weaning Weight		556			
Average Daily Gain				1.2	
Pounds of Feed per Pound of Gain				13.7	
Est. Labor Hours per Cow/Cwt Pro		6.11		0.6	

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

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Executive Summary for 2014

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

Income Statement

Financial Standards Measures

Crop Sales	467,397		Liquidity	Beginning	Ending
Crop Inventory Change	-11,427		Current Ratio	2.08	1.72
Gross Crop Income		455,970	Working Capital	286,254	244,360
Livestock Sales	78,969		Working Capital to Gross Rev.	•	35.4%
Livestock Inventory Change	21,102				
Gross Livestock Income		100,071	Solvency (Cost)	Beginning	Ending
Government Payments		15,590	Debt to Asset Ratio	35.2%	36.6%
Other Cash Farm Income		91,982	Equity to Asset Ratio	62.7%	60.4%
Change in Accounts Receivable		13,094	Debt to Equity	59.6%	65.5%
Gain or Loss on Hedging Accts.		3,283			
Change in Other Assets		-985	Profitability		Cost
Gain or Loss on Breeding Lvst.		-36	Rate of Return on Assets		3.1%
Gross Farm Income		678,969	Rate of Return on Equity		2.8%
			Operating Profit Margin		9.4%
Cash Operating Expense	494,028		Net Farm Income		86,803
Change in Prepaid Exp. & Sup.	7,006		EBITDA		175,998
Change in Growing Crops	-5,991				
Change in Accounts Payable	7,931		Repayment Capacity		
Depreciation	60,561		Capital Debt Repayment Cap.		118,484
Total Operating Expense		563,535	Capital Debt Repayment Margi	n	17,665
Interest Paid	25,026		Replacement Margin		-7,111
Change in Accrued Interest	3,605		Term Debt Coverage Ratio		1.18
Total Interest Expense		28,631	Replacement Margin Coverage	Ratio	0.94
Total Expenses		592,166			
			Efficiency		Cost
Net Farm Income from Operatio	ons	86,803	Asset Turnover Rate		33.5%
Gain or Loss on Capital Sales		649	Operating Expense Ratio		74.5%
Net Farm Income		87,452	Depreciation Expense Ratio		8.8%
			Interest Expense Ratio		4.1%
Change in Earned Net Worth	42,665	2.9%	Net Farm Income Ratio		12.7%







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