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

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

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 | |

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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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