2015 Moorhead Averages and Comparisons

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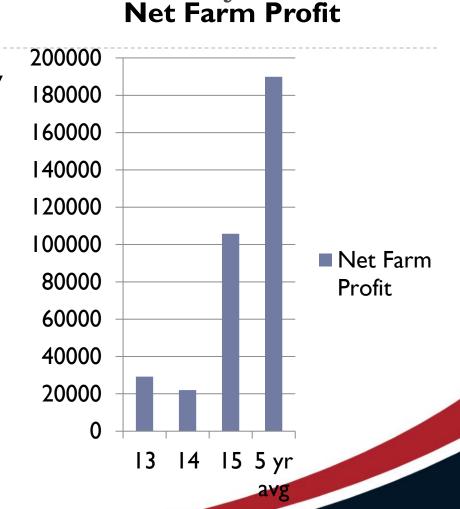


Net Farm Income back up with excellent yields

- Net Farm Income or Profit

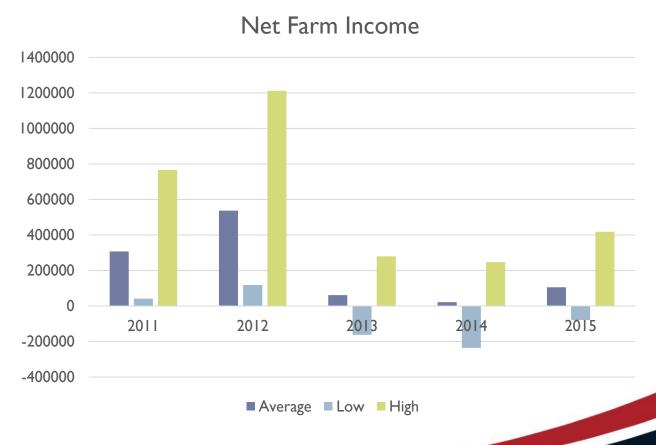
 (Net Cash Income +Inventory
 Changes-Depreciation) per
 farm was \$105,808

 (\$89,489-Vly) (State
 Average \$44,225) down
 44% from 5 year average of
 \$189,931.
- Reasons-Lower Sale prices of 2014 inventory, historically good yields, lower inputs (fuel) significantly lower sale prices for 2015.





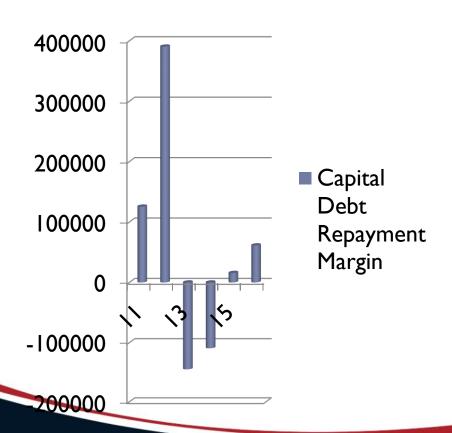
Net Farm Income (Profit) By Year (Before Living and Taxes)





Similar to last year

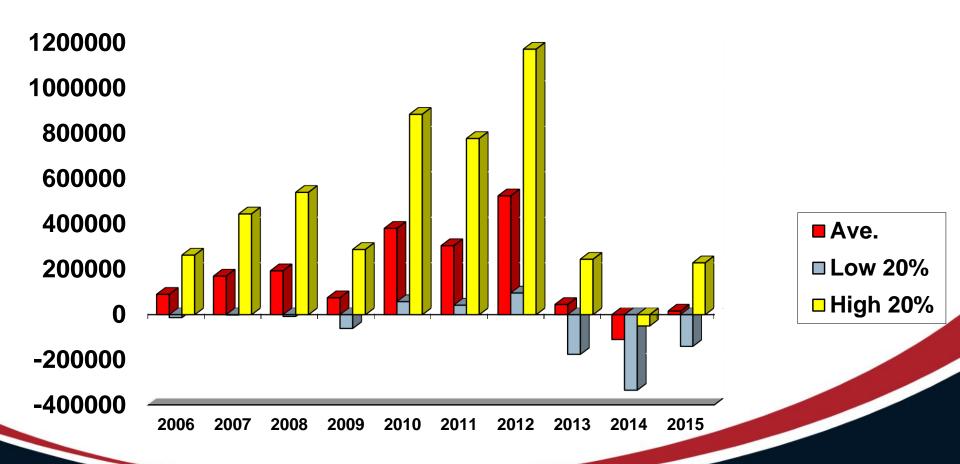
Capital Debt Repayment Margin



- Margin-Money left after paying all expenses to reinvest in the business was \$15,738(-1,834 Valley)
- This was third positive CDRM since 2011 the 5 year average is now \$61,310.

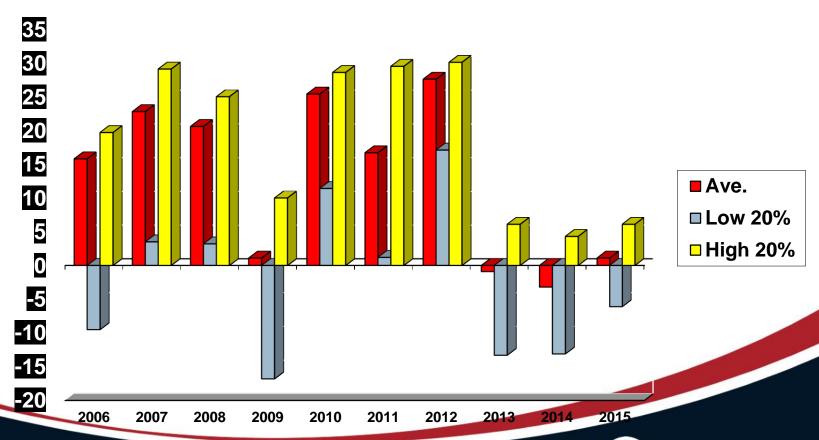


Capital Replacement Dollars/Year increased for each group





Rate of Return on Equity/Year (Cost)



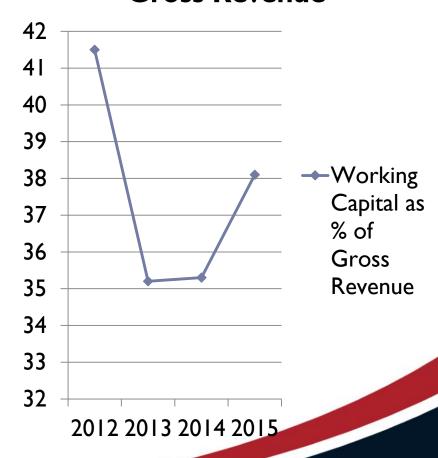


Working Capital is on the increase

Working capital as a percentage of gross revenue was 38.1% (35.9% VIy) which still gives good financial support for unknown future prices/production, it was 2.4% lower than 5 year average.

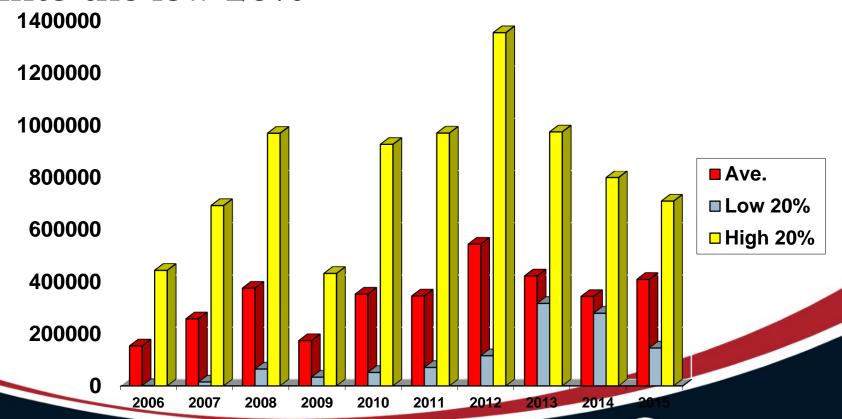
- Rates of return on assets
- (2.6%), (2.2% Valley) and Rate of return on equity
- (1.5%) (1.3% Valley) are

Working Capital as % of Gross Revenue





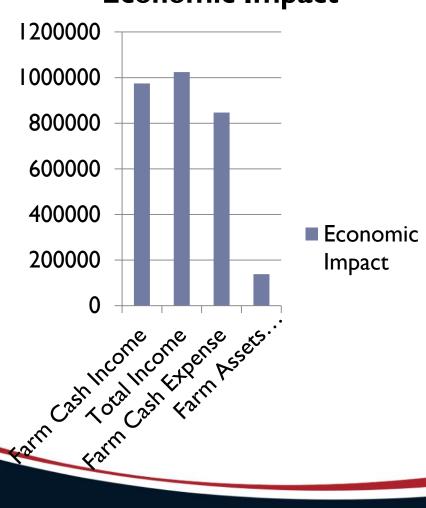
Average Working Capital increased by \$65,442 and the low 20% decreased after last year where high profit farms slipped into the low 20%





Economic Impact of Moorhead FBM Farms



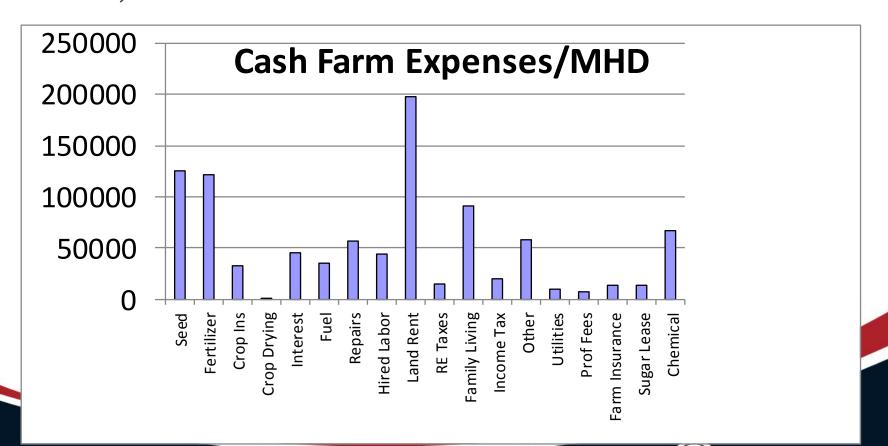


- Out of the 64 Farms analyzed, number are average per farm:
- Farm Cash Income : \$974,281
- ▶ Total Income: \$1,024,263
- Farm Cash Expense:\$846,508
- Farm Assets Purchased: \$137,892



How the \$957,989

was spent including family living and income taxes. The three largest expense are Land Rent, Seed and Fertilizer.





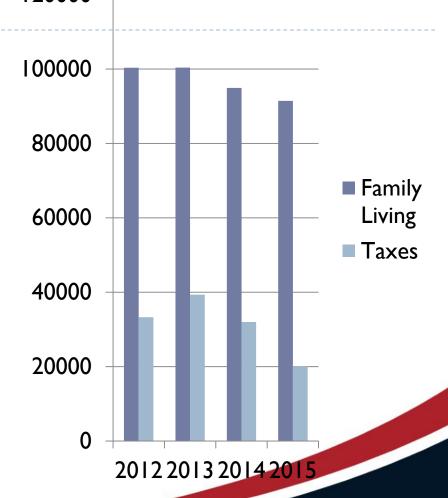
Economic Impact of Moorhead FBM

Farms

- Family Living and Income

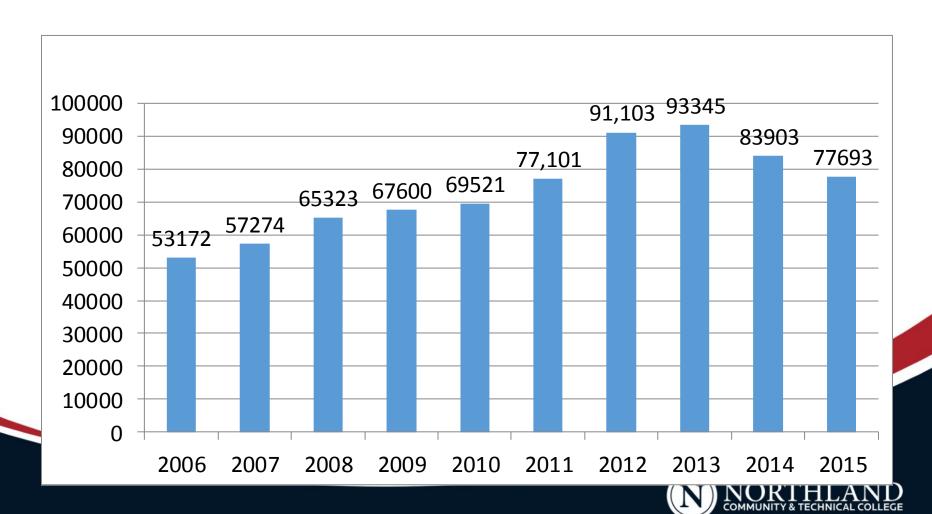
 Taxes Paid: \$111,481,

 lower due to taxes paid
 in 2015, FL slightly
 lower.
- Dollars spent in area on all expenses: \$1,132,748(Total \$72,495,872)
- Inventory Change:
- **+62,519**





RRV Apparent Family Living



Economic Impact of Moorhead FBM Farms



- Money borrowed:\$592,278
- Principal Payments:
 \$501,622



Economic Impact of Moorhead FBM Farms

	Farm Fi	nancial Scoreca	ard		
Liquidity	This Year	5-Year Ave	Strong		Vulnerable
				1.7	1.1
Current ratio	1.88	1.92			
Working capital	\$407,578	\$424,344			
				25%	10%
Working cap to gross revenue	38.1%	37.2%			
Solvency (market)	Note: These solvency	 ratios include deferr	ed liabilities		
N 200 (8)				30%	60%
Farm debt/asset ratio	41%	36%			
				70%	40%
Farm equity/asset ratio	59%	64%			
				0.43	1.50
Farm debt/equity ratio	0.71	0.58			



Economic Impact of Moorhead Farms

2.6%
1.5%
7.0%
\$105,808
\$240,523
)
\$131,631
\$15,738
-\$34,581
1.14
0.79





Economic Impact of Moorhead Farms

nancial Efficiency		/ !		
			45%	30%
Asset-turnover rate (market)	37.6%	42.9%		
	3		60%	80%
Operating-expense ratio	77.5%	75.1%		
			5%	15%
Depreciation-expense ratio	7.9%	6.9%		
57			5%	10%
Interest-expense ratio	4.7%	3.9%		
	/		20%	10%
Net farm income ratio	9.9%	14.7%		
Developed by: University	of Vermont Extension a	and Center for Farm Financial Mg	at University of Minnesota	
		Business Mgt Program, Northland	5/// 72	



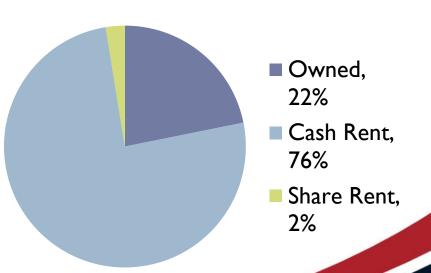
Conclusions about the ratios

- Start to compare your information to the last 3 to 5 years of data.
- Determine your own trend lines.
- Compare your data to the area averages.
- ▶ How does your business stack up?
- Evaluate possible changes if needed.

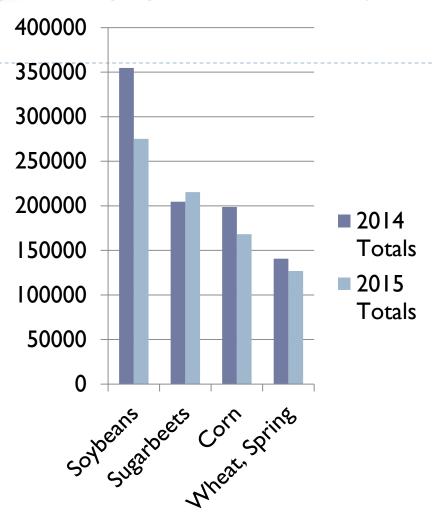


- 64 Farms completed the FINAN, mostly in Clay and Norman counties, (Valley had 266 Farms, up 35 from 2014)
- Average farmer age was 47.3 with 24.7 years of farming. (Valley was 47.5 and 24.1 years)
- Average acres was 1850.8 with 404.1 owned, 1,400 cash rented and 47 share rented.
- Valley #'s (1,533 Total, 368 own, 1121 Rent, 45 share)

Crop Acres



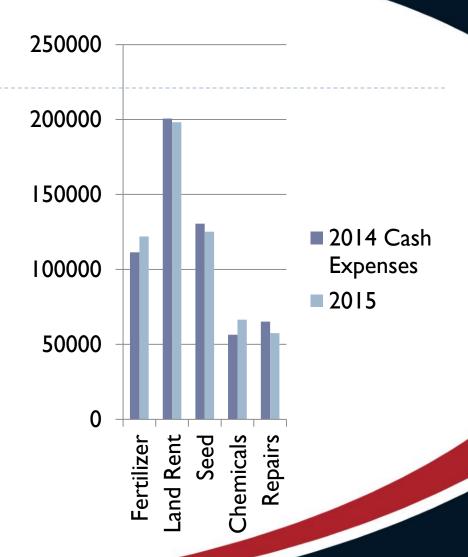




- Average Crop Income:
 Doesn't include inventory
 value of crops
- Soybeans- \$275,207
 down 22.4% from 2014
 (\$354,644).
- Sugarbeets-\$215,388 up
 5.3% from (\$204,625) in
 2014.
- Corn- \$168,160 down 15.4% from 2014 (\$198,756).



- Wheat-\$126,905 down
 9.9% from 2014
 (\$140,778).
- Average Crop Expenses-Includes prepaids for 2016!
- Land Rent-\$198,206 down 1.2% from 2014 (\$200,671)
- Seed-\$125,149 down
 4.1% from 2014
 (\$130,552)





- Fertilizer- \$121,971 up 9.5% from 2014 (\$111,387)
- Repairs-\$57,480 down II.8% from 2014 (\$65,143)
- Chemicals-\$66,485 up 17.8% from 2014 (\$56,455).



Comparison to Valley

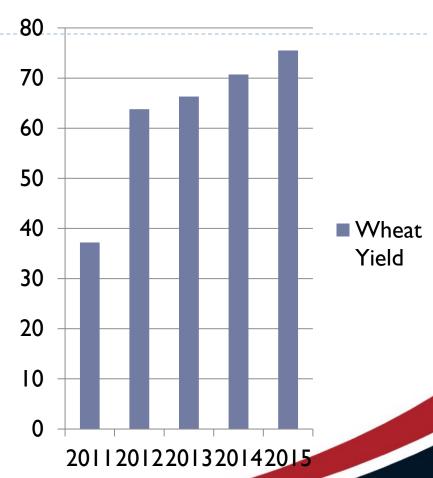
- Income: Soybeans is #1 in crop income (\$241,502), followed by Corn (\$200,542), Sugarbeets (\$144,206) then Spring Wheat (\$95,454).
- Expenses: Land Rent is #1 at \$156,283 followed by Fertilizer (\$109,225), Seed (\$108,159), Chemicals (\$62,040) and Repairs(\$54,828).



Production Data

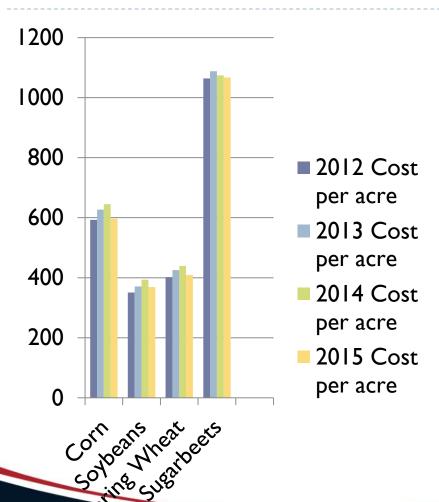
- Average Crop Yields in 2015 (Valley #)-Record Setting Yields for Many!!
- Corn- 158.54 bu/acre (167.5)
- Soybeans- 44.6 | bu/acre (41.9)
- Sugarbeets- 28.69 ton/acre (26.6)
- Wheat, Spring- **75.5** bu/acre (71.4)

Wheat Yield





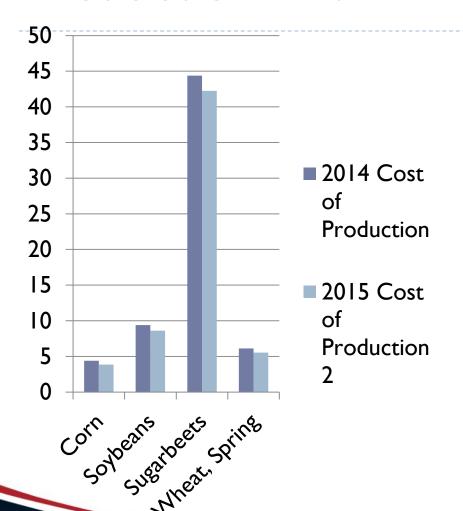
Production Data



- Total costs per acre and per bushel-does not personal draw or gvmt. Payments
- Corn- \$596.65 and \$3.76
- Soybeans- \$368.74 and\$8.27
- Sugarbeets-\$1,066.98 and\$37.19
- Wheat, Spring-\$409.59 and \$5.43



Production Data



- 2016 Cost of Production Projections-include Family Living, Principal Payments, Operating Interest vs 2015.
- Corn- \$3.85 vs \$4.40 (\$2.97-\$4.51)
- Soybeans- \$8.60 vs \$9.39 (\$7.16-\$11.23)
- Sugarbeets- \$42.26 vs \$44.38 (\$32.81-\$52.94)
- Wheat, Spring- \$5.54 vs \$6.11 (\$3.78-\$6.71)



Grain <u>Prices</u> Prospective Planting Preview



2016 Outlook-Overall Grain

- ▶ 2016 Price Moving Scenarios
 - ▶ I. Strength/Weakness of US Dollar
 - 2. Price of Crude Oil-typically tied to commodity prices
- 3. Potential weather issues (winter wheat freeze potential, late/wet plantings in South, Summer Weather (La Nina-Dry)
- ▶ 4. Prospective Planting Reports
- 5. Export Progress (South American/Brazil Impeachment, Zimbabwe Drought Emergency-Corn), China cancelled some Brazil imports
- 6. Federal Interest Rates



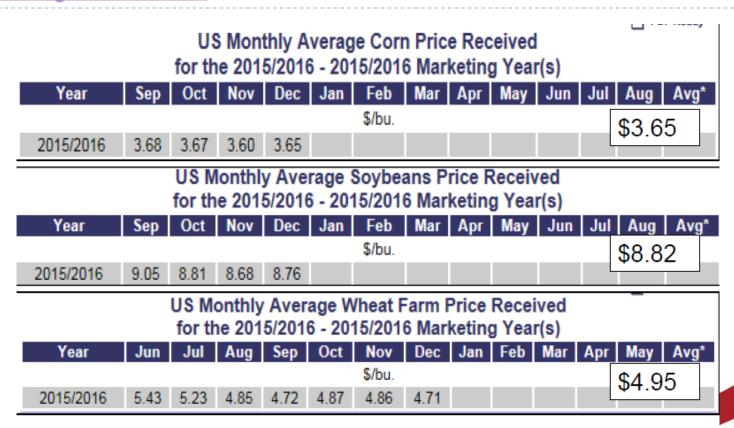


2016 Outlook-Overall Grain

- Current USDA Projection before Planting Report
- ▶ Corn-90.2 million acres, 168 bushels, up 2 million acres
- Soybeans-82.5 million acres, 46.7 bushels, projected ending stocks to be lower in 16-17 than in 15-16, similar acres as last year.
- Wheat- 51 million acres down, 45.9 bushels, 3.6 from last year



ARC Payments



PLC Prices Corn \$3.70, Wheat \$5.50, Soybeans \$8.40

