

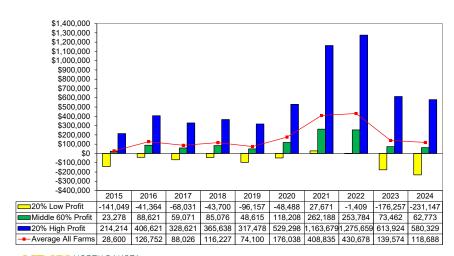
North Dakota Year in Review 2024



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Net Farm Income (Accrual) Per Farm

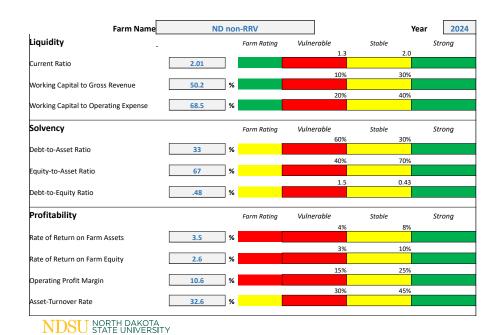
N.D. Farm Business Management Education Program

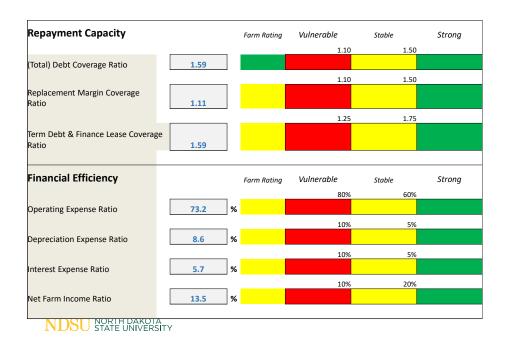


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Benchmarking

- Initial benchmarking may be done using the established FFSC accounting guidelines to determine if the ratio is acceptable
- However, the FFSC Farm Finance Scorecard is very general and my not apply as well to every region, enterprise, or farm type
- It may be necessary to adjust the ratio standards to meet the need of the client
 - Sugar beets
 - Cow/calf vs. crops
 - Dairy or other animal confinement









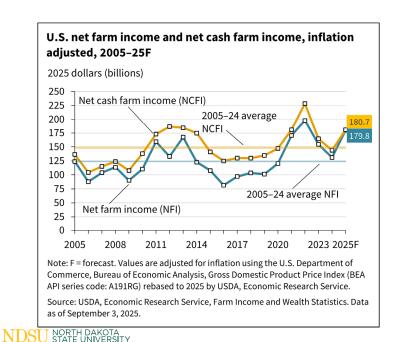
Valley vs. Non-Valley Financial Scorecard 2024

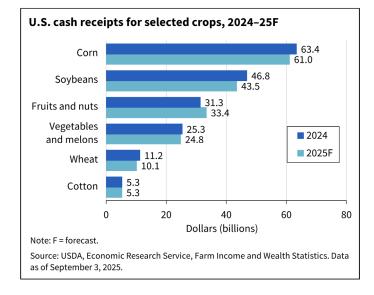
	RR Valley	Non Valley
Current Ratio	1.96	2.01
Working Capital to Gross Revenue	41.6%	50.2%
Working Capital to Operating Expense	54.8%	68.5%
Debt-to-Asset Ratio	42%	33%
Equity-to-Asset Ratio	58%	67%
Debt-to-Equity Ratio	0.71	0.48
Rate of Return on Farm Assets	4.1%	3.5%
Rate of Return on Farm Equity	3.7%	2.6%
Operating Profit Margin	11.6%	10.6%
Asset-Turnover Rate	35.7	32.6
(Total) Debt Coverage Ratio	1.44	1.59
Replacement Margin Coverage Ratio	1.11	1.1
Term Debt	1.56	1.59
Operating Expense Ratio	75.9%	73.2%
Depreciation Expense Ratio	6.3%	8.6%
Interest Expense Ratio	5.4%	5.7%
Net Farm Income Ratio	12.7%	13.5%

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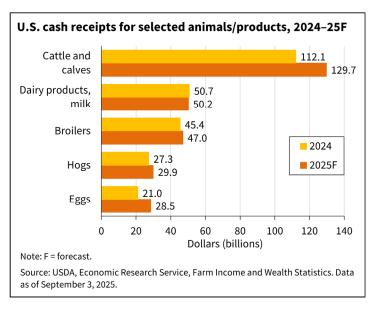
Expectations for 2025?



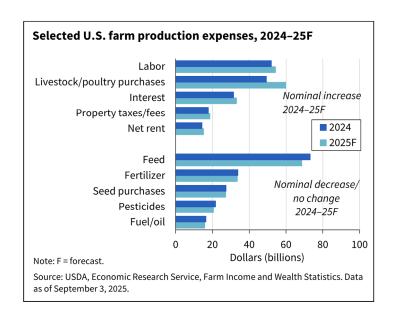




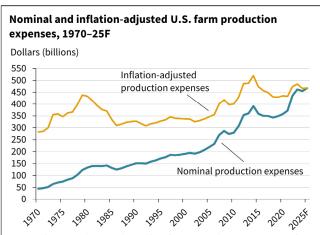






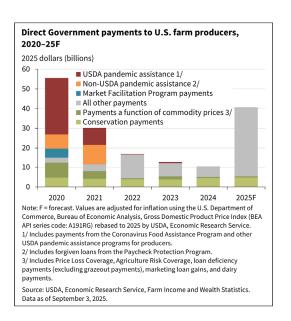






Note: F = forecast. Values are adjusted for inflation using the U.S. Department of Commerce, Bureau of Economic Analysis, Gross Domestic Product Price Index (BEA API series code: A191RG) rebased to 2025 by USDA, Economic Research Service.

Source: USDA, Economic Research Service, Farm Income and Wealth Statistics. Data as of September 3, 2025.



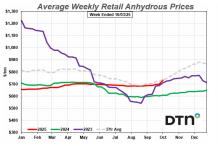


Fertilizer Prices Higer Heading Into Fall

- For some crops, fertilizer is a large considerable share of overall production expenses
 - Corn 20 25%
 - Soybeans 15 25%
 - Wheat 20 25%
 - Sunflowers 15 25%
 - Cotton 15 20%
 - Rice 18 25%
 - Canola 23 33%
 - Alfalfa 15 20%

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DTN Average Weekly Fertilizer Prices





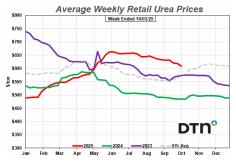
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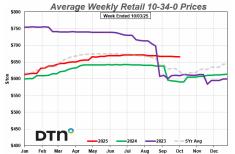
Tariffs and Conflicts Impacting Fertilizer Prices

- · Tariffs on imports as well as conflict in the middle east have forced nitrogen prices higher
- · Natural gas prices as well as global demand also pushing the price of N higher
 - More producers shifting to UREA as UAN supplies fall
- · China has limited their Urea exports significantly in 2025
- Phosphate tariffs put in place prior to President Trump's election on Morrocco and Russia have cased high MAP and DAP prices to persist.
 - Currently a 14.21% tariff on Moroccan phosphates
 - Currently an 18.21% tariff on Russian Phosphates
- China has severely cut phosphate exports to record lows to manage domestic supplies
 - 950,000 Tons first quarter 2022
 - 111,000 Tons first quarter 2025

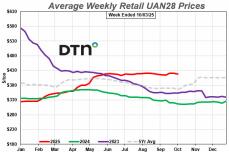
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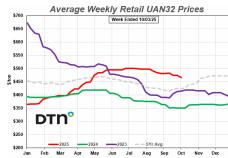
DTN Average Weekly Fertilizer Prices





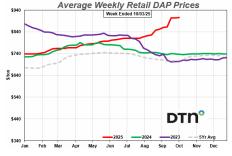
DTN Average Weekly Fertilizer Prices

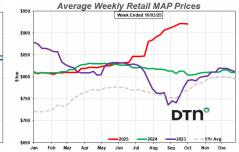




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DTN Average Weekly Fertilizer Prices





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The FINBIN Data Set

Mn State College & University North 12575 farms
ND Farm and Ranch Business Management 11589 farms
Mn State College & University Red River Valley 3509 farms
Southwest Minnesota Farm Business Management Association 3043 farms
Nebraska Farm Business Inc 3041 farms
Missouri Farm Business Management Analysis 2394 farms

Mn State College & University South 39867 farms

Michigan State University Extension 2338 farms Wisconsin Technical College System 2086 farms South Dakota Center for Farm/Ranch Management 1271 farms The Ohio State University Extension 957 farms

Utah Farm/Ranch Business Management 703 farms

MN Other 701 farms
Western Illinois Farm Business Farm Management Association 398 farms

Western Illinois Farm Business Farm Management Association 398 farms Other Contributors 350 farms

Penn State Extension 218 farms

South Carolina Farm Management Association 76 farms New England Direct Marketing Benchmark Project 52 farms FINBIN (2025). Center for Farm Financial Management: University of Minnesota. Retrieved from

http://finbin.umn.edu (originally created August 6 2025).

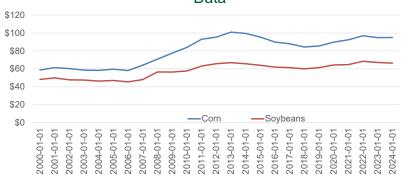




Land Prices, Machinery & Rents Discussion

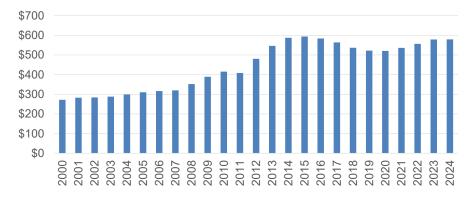


Inflation Adjusted (2009 Dollars) Machinery Cost per Acre For Corn and Soybeans, excluding Fuel and Lube: FINBIN Data



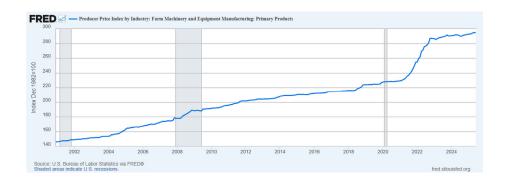
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Machinery Investment Per Crop Acre, Inflation Adjusted 2009 Dollars, FINBIN Data Set



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PPI For Farm Machinery



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Sandhills Equipment Value Index : US Used Farm Equipment Market

Tractors - 100 HP and Greater and Combines



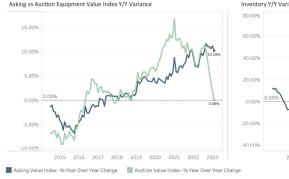


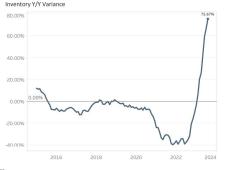
Policing value mack to real over real change and reaction value mack

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- Used farm equipment inventory levels were up 0.66% M/M and 34.83% YOY in August and are trending up. Sandhills has observed seasonal inventory decreases in the used combine category.
- Asking values remain elevated and are greater than they were a year ago, up 0.69% M/M and 9.39% YOY after consecutive months of increases.
 - Auction value decreases have been noted among used combines and highhorsepower tractors (300 HP and greater) in past months, but even with recent decreases, auction values are on par with last year. Auction values were up 0.19% M/M and 0.19% YOY and are trending sideways.

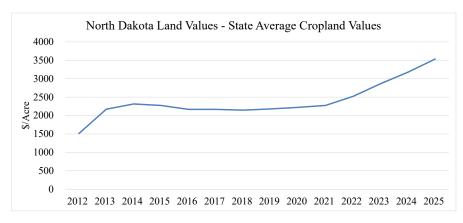
Sandhills Equipment Value Index : US Used Tractor Market Tractors 300 HP or Greater





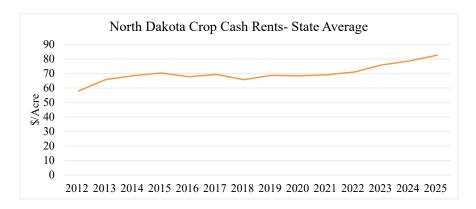
- Copyright 2023, Sandhills Global, Inc. ("Sandhills"). All rights reserved, he information in this document is for informational purposes only. It should formation that is the exclusive property of Sandhills. This document and the
- Continuing several months of increases, inventory levels of used high-horsepower tractors were up 8.13% M/M and 75.67% YOY in August, a noteworthy acceleration led in part by 2022 model year tractors.
- Asking values are trending upward, up 0.93% M/M and 10.19% YOY in August after months of increases, while auction values are trending downward.
- NDSU NORTH DAKOTA •
- Auction values were up just 0.41% M/M and 0.08% YOY and are trending down. The spread between asking and auction values expanded in August.

North Dakota Cropland Values up 46% Since 2021, Up 10.55% in 2025



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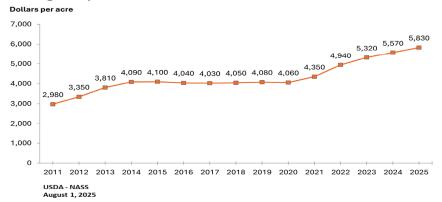
ND Cropland Rents Up 19.7% Since 2021, up 4.25% in 2025



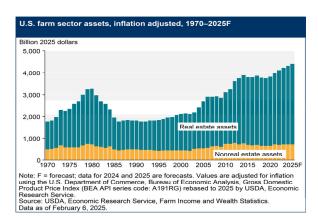
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USDA NASS National Cropland Prices

Average Cropland Value - United States: 2011-2025



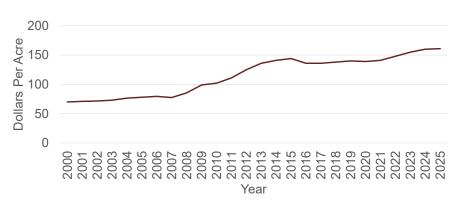
USDA Inflation Adjusted Farm Assets



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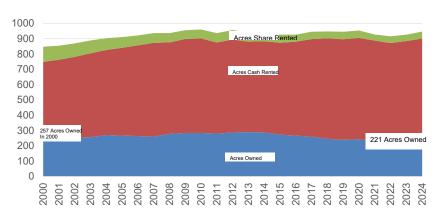
ND Cropland Values and Cash Rents 1989 - 2024 in 2012 Dollars 90 80 70 2500 2000 300 100 0 100

U.S. National Average Cropland Cash Rental Rates

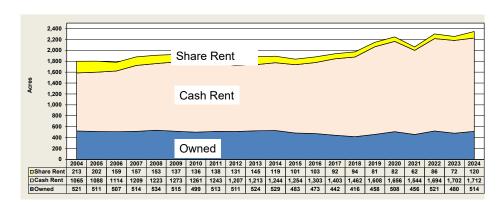


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FINBIN Crop Acres Owned Vs. Rented

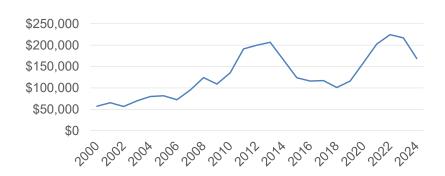


Crop Land in Farms Across ND 2024



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FINBIN Data Set Net Cash Farm Income



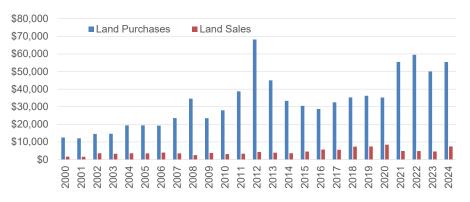
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FINBIN Net Farm Income / Gross Farm Income Ratio

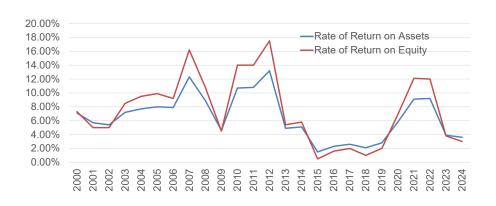


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Vs. Dollars Received for Land Sales: Inflation Adjusted \$2007

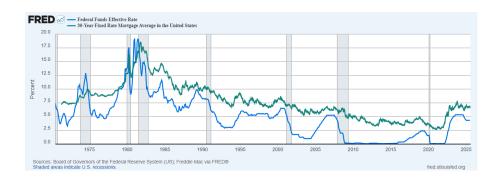


FINBIN Data Set ROR on Assets and Equity



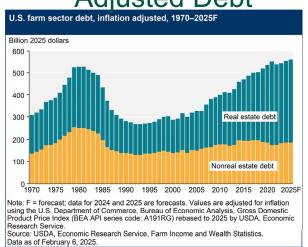
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St Louis Federal Reserve 30-year Mortgage Rate vs. the Federal Funds Rate



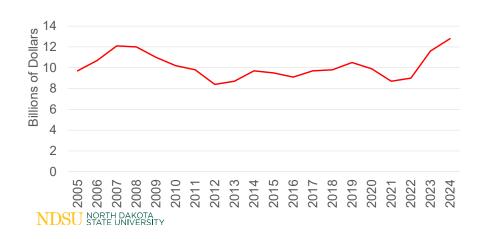
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USDA Farm Sector Inflation Adjusted Debt



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Total Interest Paid in the U.S. By Ag. Producers



Fundamental Interest is a Fundamental Component of Agricultural Land Valuation

- Returns
 - Expected Returns Includes:
 - · Annual Expected Profits
 - · Reversion (Resale Value)
 - Financing/Lending Conditions (Interest Rates, Term, Required Initial Equity, and other Market Options)

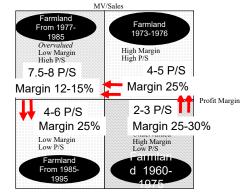
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Applying Earnings Multiples to Farmland and Income in The 1980's

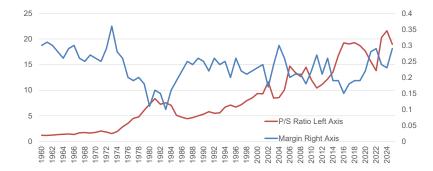
P/S = Price of land/Sales of production





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Land Price To Net Cash Income



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Questions?



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