



Commodity Market Outlook & 5 Tips to Improve Farm Profitability

Doug Johnson, Ag Strategist, Moody's Analytics

Feb 25, 2021

Join Doug Johnson from Moody's Analytics and Mike Pearson, TV Anchor of This Week in Agribusiness as they discuss the ag commodity outlook for 2021. Hear where there is potential in the market and how to take action.

Also, this is a great opportunity to create "value add" discussions with your producers on the importance of marketing and understanding the numbers. We'll provide 5 tips producers can use to improve their marketing and profitability skills:

- 1. Conduct a business IQ exercise
- 2. How to know the cost of production and your break-even
- 3. Tips for setting up a basic marketing plan
- 4. "What-if" scenarios to consider for quick and easy updates
- 5. Compare your operation KPI's to your peer groups



Mike Pearson TV Anchor of This Week in Agribusiness



Doug Johnson Director - Ag Strategist Moody's Analytics

Agenda

- Introductions
- Market Outlook & Key Drivers
 - Trade & Disruptors
 - Global Demand
 - Ag Commodity Outlook
- 5 Tips for Marketing
 - 1. Business IQ
 - 2. How to know cost of production and break-evens
 - 3. Tips for setting up a basic marketing plan
 - 4. "What-if" scenarios to consider for quick and easy updates
 - 5. Compare your operation KPI's to your peer groups
- Action Plans



Moody's Analytics Lending Cloud



Ag Peer Benchmarking

- How Do I Compare
- Strengths
- Weaknesses
- Create Value



Ag Scorecard

- 4 Models
 - Crop
 - Livestock
 - Feedlot
 - Dairy
- Compare Internally
- Model Confidence
- New: Quick Score

	Score Now
Score = 1.50	2 Good

Your Bank Risk Rating

Balance Sheet:	Inc. / Exp.:	
12/31/2015	01/01/2015	
Criteria		Wt % Re
Management Experience	Greater than 15yrs	12.50-
Experience in Industry	10-15 years	12.50 ¥
Risk Management	Pro-Active	12.50 🖌
Debt to Equity	3.59	12.50
Current Ratio	1.42	12.50 ¥
Return on Assets	15.09%	12.50 ¥
Term Debt Coverage Ratio	1.92	12.50 ¥
Margin of Collateral to Loan	3.03	12.50 ¥
Comments		

Moody's can help predict Probability of Default (PD) and identify potential Risk in your portfolio

Moody's Ag Scorecard

8.27 %=PD Risk Rating: 13				
03/26/2018 NPPI	Avg			
Criteria			Criteria Score	
Liquidity Ratio		0.91	1.80	
Debt to Assets		51.29%	1.42	
Term Debt Coverage Ratio)	-0.36	3.48	
Interest Expense Ratio		4.01%	0.86	
Return on Assets		-3.90%	1.89	
Ag Sector Type		Crop	-1.78	
Industry Conditions		Declining	42.97	
Diversification of Products		Non-Diversified	35.94	
Years in Relationship		1-3 Years	35.94	
Conduct of Account		Fair	1.38	
Farm Conditions		Fair	18.75	
Experience in Ag		3-15 Years	35.94	
Financial Reporting and Fo	ormal Planning	Poor	68.75	
Risk Management		Fair	-15.63	
Comments				
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Presenters



Mike Pearson

TV Anchor of "This Week in Agribusiness"



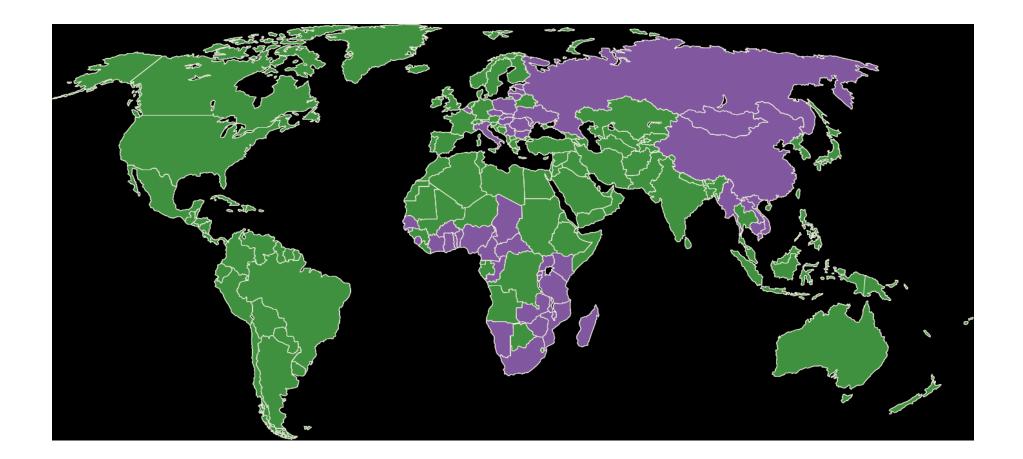
Doug Johnson Director – Ag. Strategist Moody's Analytics Lending Cloud

Trade & Disruptors





Commodity Market Outlook African Swine Fever and Other Animal Diseases



How Will the Biden Administration Address Global Trade?

C The New York Times

Biden and China: Administration Rethinks Relations

The Biden administration is under intense pressure to maintain former President Donald J. Trump's curbs on China, even as it tries to develop a ... 5 days ago



AP Associated Press

[AP] Biden treads carefully around Trump's combative trade policy

WASHINGTON (AP) — In his first weeks in office, President Joe Biden has wasted no time in dumping a batch of major Trump administration ... 2 weeks ago



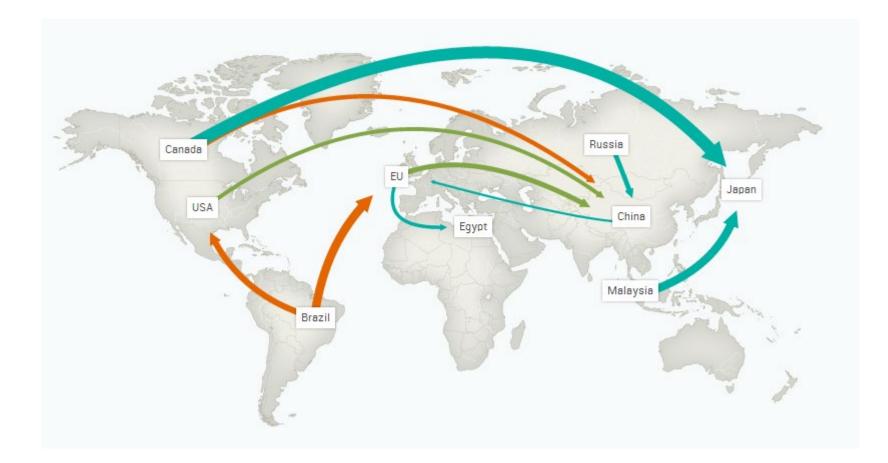
cfr Council on Foreign Relations

After Trump: What Will Biden Do on Trade?

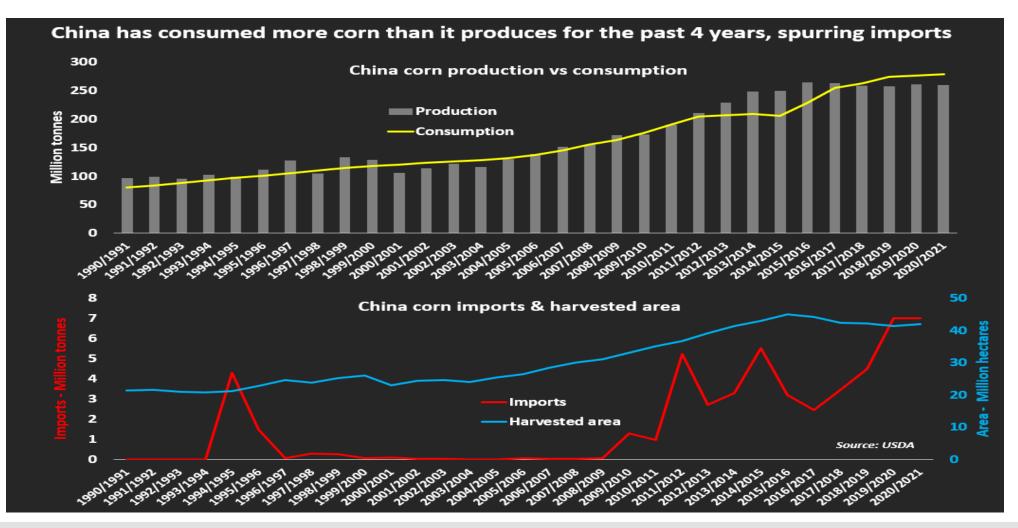
President Trump disrupted U.S. trade policy in the name of better deals. President-Elect Biden proposes a combination of stronger domestic ... 1 month ago



Commodity Market Outlook Global Demand & Trends



Commodity Market Outlook Chinese Grain Demand



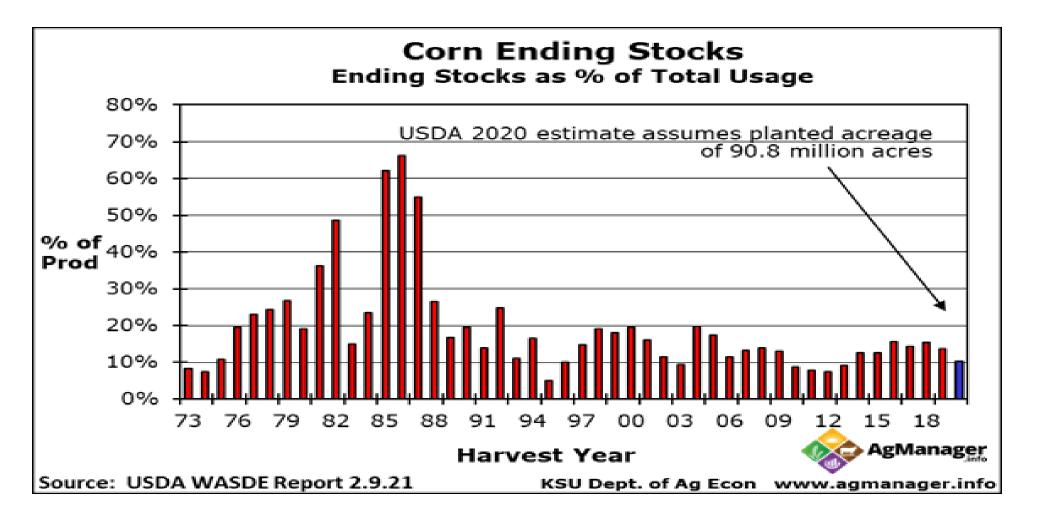
Commodity Markets







Current Corn Balance Sheet

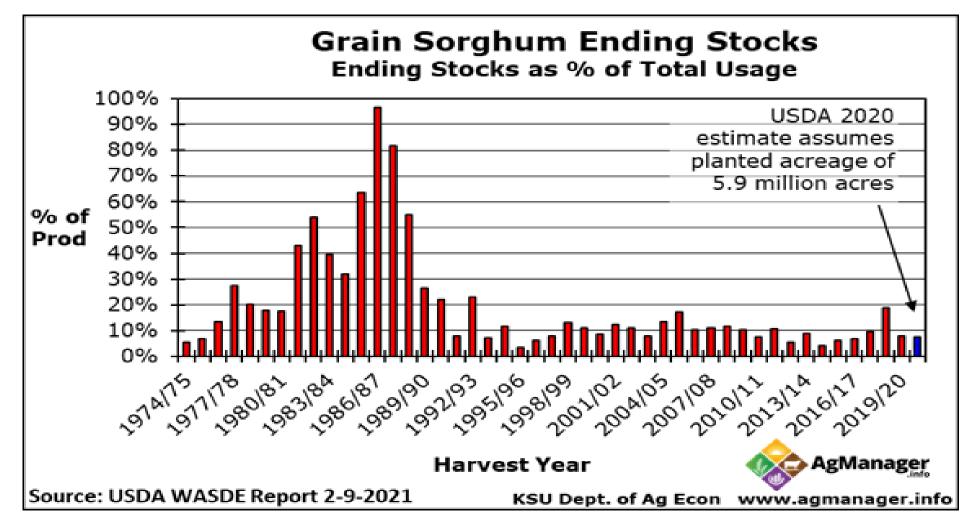


Commodity Market Outlook 2021 Corn Price Moves

ZCK21-ZCZ21 - Spread Chart

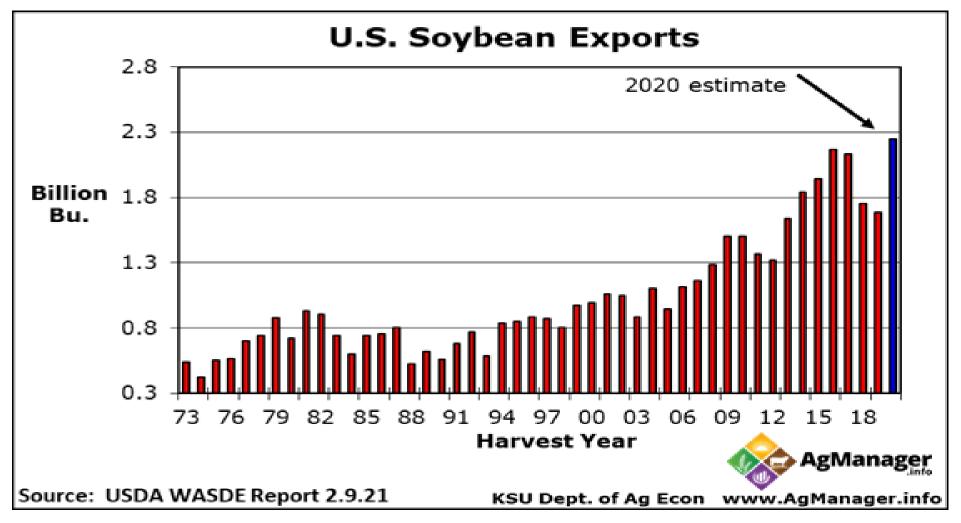


Sorghum Export Demand Has Been Strong





Global Soybean Demand Stays Strong



Commodity Market Outlook Brazil Soy Harvest Delays Continue

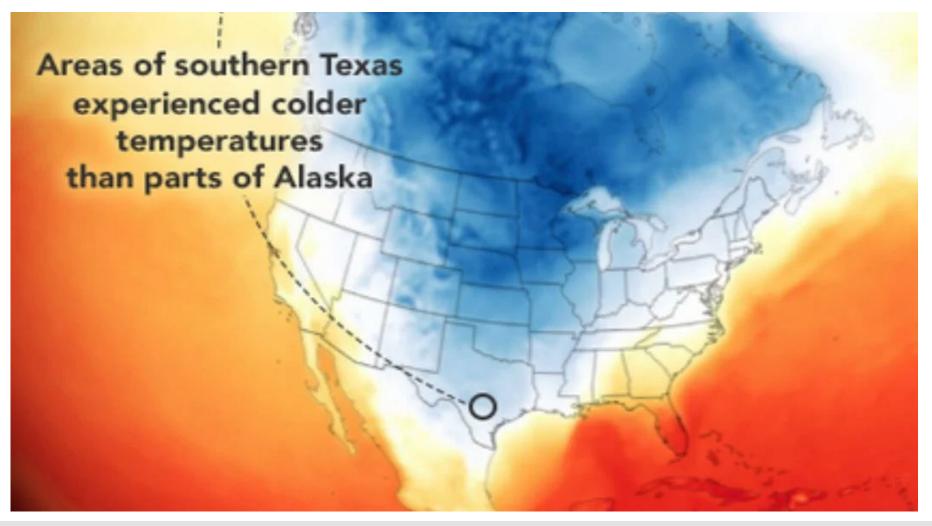
100,00% 90,00% 73,18% 80,00% 70,00% 60,00% 57,96% 50,00% Mínimo - Máximo (5 anos) 40,00% Média 5 anos 34,51% 30,00% Safra 19/20 20,00% Safra 20/21 10,00% IMEA 0,00% 01/jan 08/jan 15/jan 22/jan 29/jan 12/fev 23/abr 05/fev 19/fev 26/fev 05/mar 12/mar 19/mar 26/mar 02/abr 09/abr 16/abr 30/abr

EVOLUÇÃO DO PERCENTUAL DE ÁREA COLHIDA DE SOJA EM MATO GROSSO

Fonte: Imea

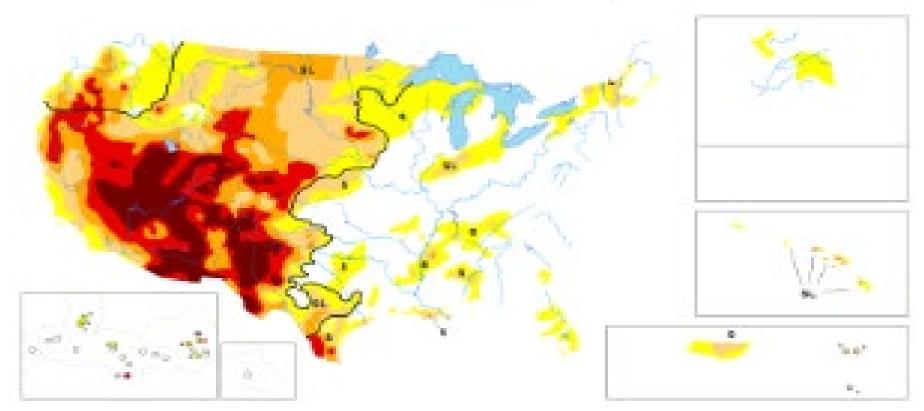


Commodity Market Outlook Drought and Cold Moving Wheat Prices



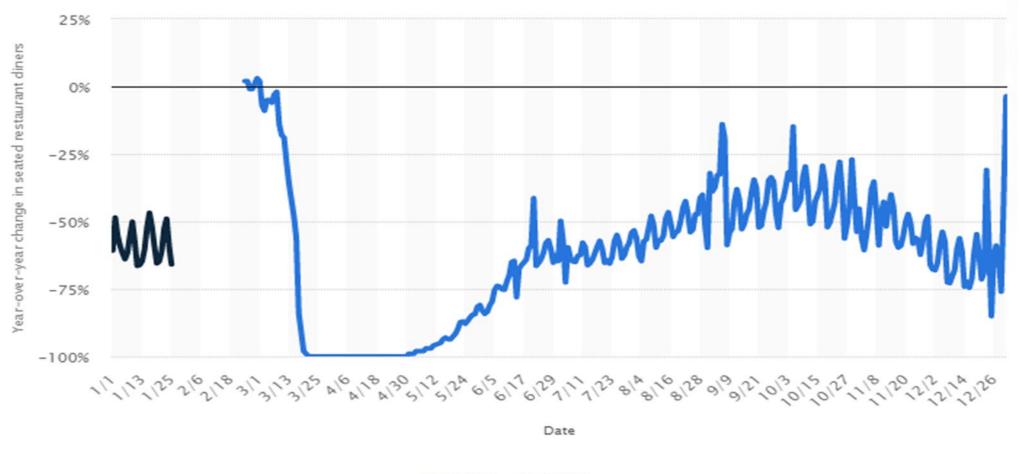
Drought and Cold Moving Wheat Prices

Data valid: February 16, 2021



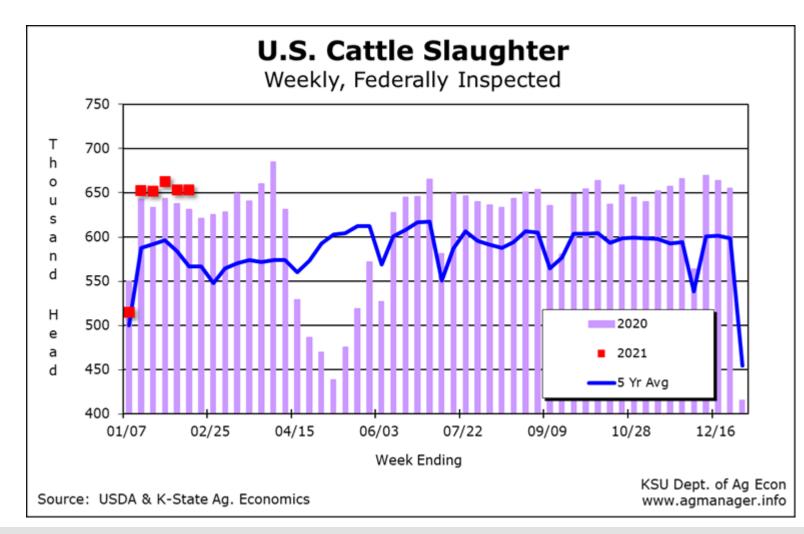


Restaurant Demand Continues to be Tepid



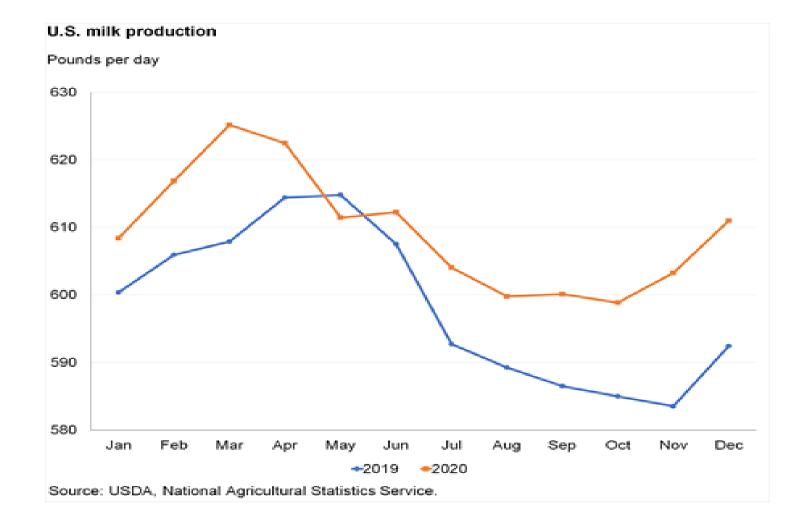
2020 - 2021

Total Cattle Slaughter Continues to Run Strong



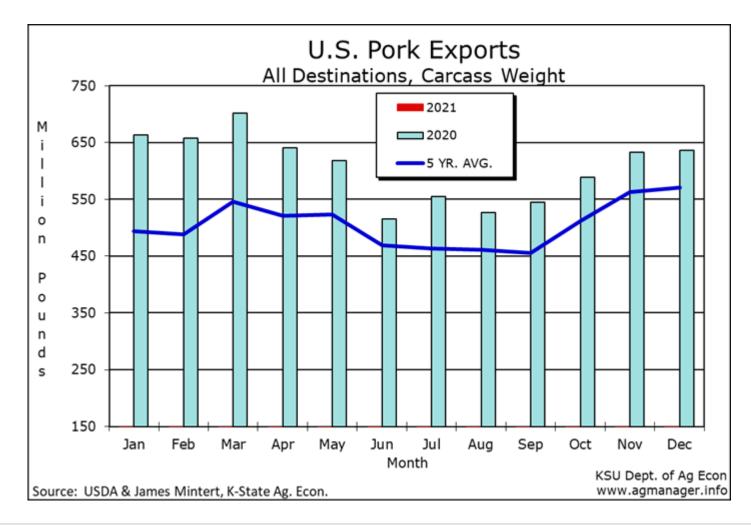


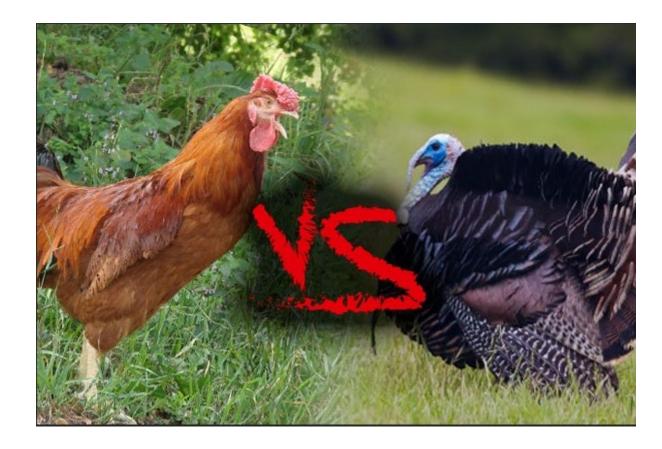
Commodity Market Outlook Milk Production Rebounded in 2020



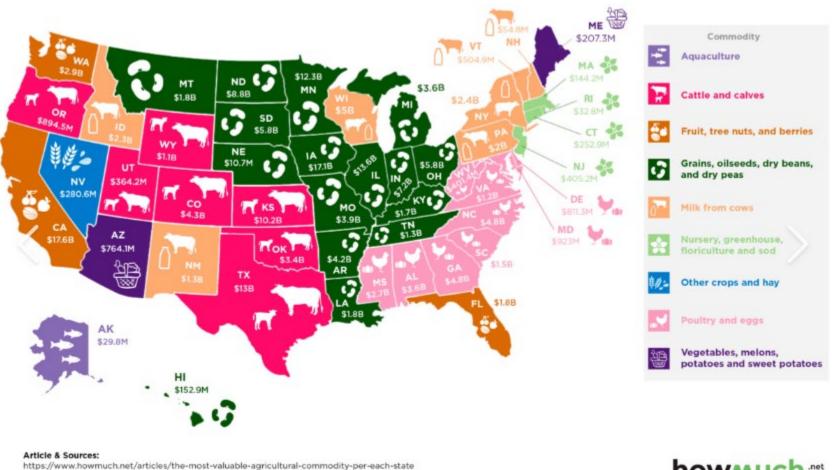


Strong Pork Exports Saved the Bacon Industry





Other Commodities



USDA - United States Department of Agriculture - https://www.nass.usda.gov/

howmuch .net

Cotton Prices Afford Some Growers an Option

US Cotton #2 Futures Overview



How Can You Make Your Farm Successful Long Term?

Most regrets don't occur on the **Production** side

Most regrets occur on the Marketing side

During the 1980's we had a weeding out of Marginal Producers

Today's we're experiencing a weeding out of Marginal Managers

Marketing Humor

Use this in the coffee shop

So your Marketing Plan is relying on a I'm basing my Projections Drought in the on a drought Amazon rainforest? in Brazil

Points to Think About

- <10% Farmers have & execute on Marketing Plans
- Historically majority sells crop at bottom 1/3 of markets
- Stored grain should not be the Checkbook
- Home Run Mentality: "I'll make it back next year"
- **Remember:** It takes 2 generations to build a farm. 1 to tear it down.

What's the Difference Between a Top Producer vs. Bottom



Top Producers:

- Focus on Base Hits NOT Home Runs
- Obtain Consistent Marginal Gains
- Know Marketing should be as strong as Production
- They Create Document Execute Adjust

Everyone Starts At A Different Place

Don't Look At Your Neighbor

Just Look In The Mirror

Keep This Easy

Here's How to Start Your Journey

 You Specifico for your Earm

You Sacrifice for your Farm

Need to Ensure the Sacrifice & Sweat are realized



Business IQ

Business IQ: Management Factors

- Self-Assessment
- Is the Business side as good as the Production side
- Goals to Improve
- **Strengths** to Maintain

	Farmer Checklist	Your Score	<u>Green (3 points or 4*)</u>		Yellow (2 points)	<u>Red (1 point)</u>	
1.	Knows cost of production		Written		In head	No idea	
2.	Knows cost of production by enterprise	'	Written*		In head	No idea	
з.	Goals - business, family, & personal		Writt	en*	In head	No idea	
4.	Record keeping system		Accr	ual	Schedule F (one & done)	No idea	
5.	Projected cash flow		Writt	en*	In head	No idea	
6.	Financial sensitivity analysis		Writt	en*	In head	No idea	
7.	Understand financial ratios, break evens		Writt	en*	In head	No idea	
8.	Work with advisory team and lender		Yes*		Sometimes	Never	
9.	Marketing plan written and executed		Yes		Sometimes	Never	
10.	Risk management plan executed		Yes		Sometimes	Never	
11.	Modest lifestyle habits, family living budget		Yes*		Sometimes	Non existent	
12.	Written plan for improvement executed & strong people management		Yes*		Sometimes	Non existent	
13. Transition plan/Business Owner plan			Yes		Working on plan	Non existent/controversy	
14. Educational seminars/courses			Yes*		Sometimes	Never attend	
15. Attitude			Proactive		Reactive	Indifferent	
	ixtra Points: Progressive Business may receive 4 points for #2,6,7,8,14 itruggling Business Attempting Turnaround may receive points for #3,5,8,11,12 ee pg. 2 for Progressive and Attempting Turnaround		Score Overall Analy		ysis		
			35-54	Strong management rating, strong poten		tial for resiliency & agility	
4 p			24-34 Moderate ma		anagement rating, potential issues in resiliency & agility		
(see			<24 Weak manag		ement rating, potential major issues in resiliency & agility		

2021 Version - Developed by: Dr. David M. Kohl, Professor Emeritus, Ag & Applied Economics, in cooperation with Dr. Alex White, Dairy Science, Virginia Tech

Source: Dr. David M. Kohl, Professor Emeritus, Virginia Tech

Business IQ: Management Factors Critical Questions for Crucial Conversations



How to know Break-Evens

How to Know Cost of Production & Break-Evens

• **Basic** Level Break-Even Analysis:

- Stress Test Projections with % change overall
 - Baseline
 - Best Case
 - Worst Case

• Intermediate Level Break-Even Analysis:

- Cost of Production by Commodity
 - Use County Averages
 - Apply average to Commodities (not field by field level)
 - Quick & Easy to keep updated: Markets change You Adjust

• Advanced Level Break-Even Analysis:

- Cost of Production by Commodity by Field
 - Input actuals for most accurate Break-Even Analysis
 - Paying too much Cash Rent? | Other Commodities more Profitable?
 - What's my Break-Even: When should I sell | When should I hold

Are You Better At The Production Side

- Or -

Are You Better At The Marketing Side



Marketing Plan Setup Tips

Tips to Setup a Marketing Plan

- Define Your Goals
 - What Can You Do Today
 - Understand Your Skills
 - Where Do You Want to Get To
 - Commodity Level
 - Field Level
 - When to Market | What Farm is Losing Money
 - What's Preventing You From Getting There
 - Is it Software Skills
 - It is Time
 - Is it an Attitude
 - Who's Your Resources
 - Lender: They see the best & worst... Ask What's Working
 - Extension Agent & Universities
 - Marketing Consultants
- Keep It Easy But Keep It Current
 - It's Not A Plan If You File It Away

If You Don't Start

Then You've Already

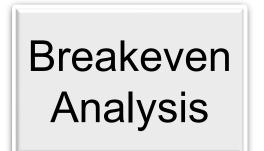
Accomplished Your Journey



Easy "What-If" Scenarios

60 Second Stress Test

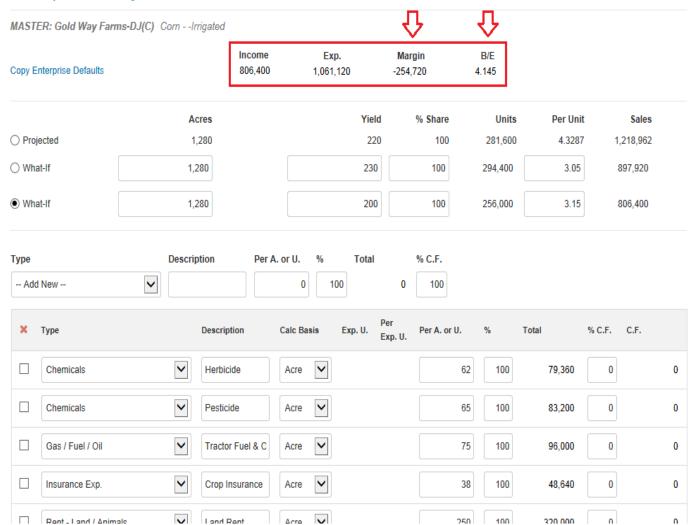
	Borrower Projection		Best	Worst			
come / Expense Trends		4.2/-	₽	$\mathbf{\hat{\Gamma}}$			
Agriculture	1/1/2016 12/31/2016 Borrower Projection	4 Yr. Average	1/1/2016 12/31/2016 Stress Test-Best	1/1/2016 12/31/2016 Stress Test-Worst	1/1/2015 12/31/2015 Tax Return	1/1/2014 12/31/2014 Tax Return	1/1/2013 12/31/2013 Tax Return
Operating Income							
Crop Sales	4,725,378	2,742,669	2,692,669	200,000	2,555,111	4,633,505	3,582,05
Livestock Sales	225,625	621,396	745,675	0	856,900	878,185	750,50
Poultry Sales	0	25,000	40,543	100,000	0	0	
Dairy Livestock Sales	220,000	220,121	258,494	0	321,561	246,411	312,5
Example of a SubTotal	220,000	245,121	299,037	100,000	321,561	246,411	312,54
Dairy Cull-Cows - Form #4797	0	0	0	0	0	0	
Milk Sales	3,205,000	1,011,158	1,213,390	0	1,202,611	1,761,511	1,080,51
Ag Program Pmts	50,000	50,000	38,000	50,000	50,000	50,000	50,00
Crop Insurance Proceeds	15,000	56,575	13,500	50,000	26,300	65,000	85,00
Custom Hire Income	0	25,000	0	100,000	0	0	
Other Income	100,000	230,246	100,000	620,982	100,000	100,000	100,00
Coop Distributions	0	12,500	0	50,000	0	0	
Total Operating Income	8,541,003	4,994,664	5,102,271	1,170,982	5,112,483	7,734,612	5,960,58
Livestock Sal:Purch For Resale	0	0	0	0	0	0	
Purchases for Resale	0	23,975	0	95,900	0	0	
Purch. For Resale Livestock Sales	463,134	0	0	0	0	0	
Durch For Densile Dates I treatests Color	0	0	0	0	0	0	



Producer Projection Margin Breakeven

Scenario 1: Yield Price Scenario 2: Yield Price Price

Enterprise Analysis





Compare KPI's to Peers



Current Ratio

This ratio (usually expressed as XX:1) indicates the extent to which current farm assets, if liquidated, would cover current farm liabilities. The higher the ratio, the greater the liquidity. Computation: Total current farm assets + Total current farm liabilities

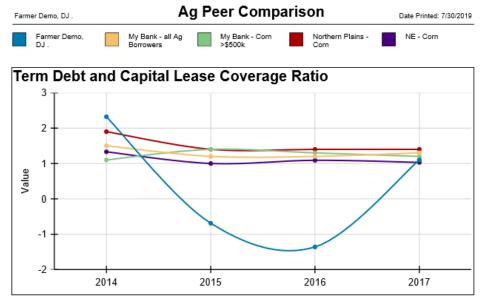
= Current Ratio

Debt To Asset Ratio

Education: Understand what Lender looks at and why This ratio measures financial position. The debt/asset ratio compares total farm debt obligations owed against the value of total farm assets. This ratio expresses what proportion of total farm assets is owed to creditors. This ratio is one way to express the risk exposure of the farm business. It can be calculated using either the cost or market value approach to value farm assets. If the market value approach is used to value farm assets, then deferred taxes on the assets should be included as liabilities. This ratio is most meaningful for comparisons between farms when the market value approach is used to value farm assets. The higher the ratio, the more risk exposure of the farm business. Computation: Total farm liabilities

- + Total farm assets
- = Debt/Asset Ratio





(TDCR VALUES) Farmer Demo, DJ .		My Bank - all Ag Borrowers	My Bank - Corn >\$500k	Northern Plains - Corn	NE - Corn
2014	2.32	1.50	1.10	1.90	1.33
2015	-0.69	1.20	1.40	1.40	1.00
2016	-1.36	1.20	1.30	1.40	1.09
2017	1.10	1.30	1.20	1.40	1.03

(TDCR COUNTS)	Farmer Demo, DJ .	My Bank - all Ag Borrowers	My Bank - Corn >\$500k	Northern Plains - Corn	NE - Corn
2014	0	249	14	39	1783
2015	0	250	12	38	1720
2016	0	235	11	30	1564
2017	0	184	9	23	806

Action Items – Steps to Success





Remember....

Never Confuse

Self-Worth

With

Net-Worth



Keep Farmers Farming & Ag Lenders Lending Thank You For Supporting Agriculture

MOODY'S ANALYTICS

MOODY'S



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