

agricultural economic insights

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Trade and the Ag Economy

Michigan Agricultural Credit Conference

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Some Perspective

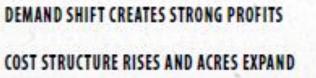
"As we know, there are <u>known knowns</u>; these are things we know we know. We also know there are <u>known</u> <u>unknowns</u>; that is to say we know there are some things we do not know. But there are also <u>unknown unknowns</u>- the ones we don't know we don't know."

- Donald Rumsfeld





TABLES



EXPANDED PRODUCTION MATCHING/ **EXCEEDING DEMAND**

PRODUCTION AG BUSINESS CYCLE



VARIABLE EXPENSES DECLINE

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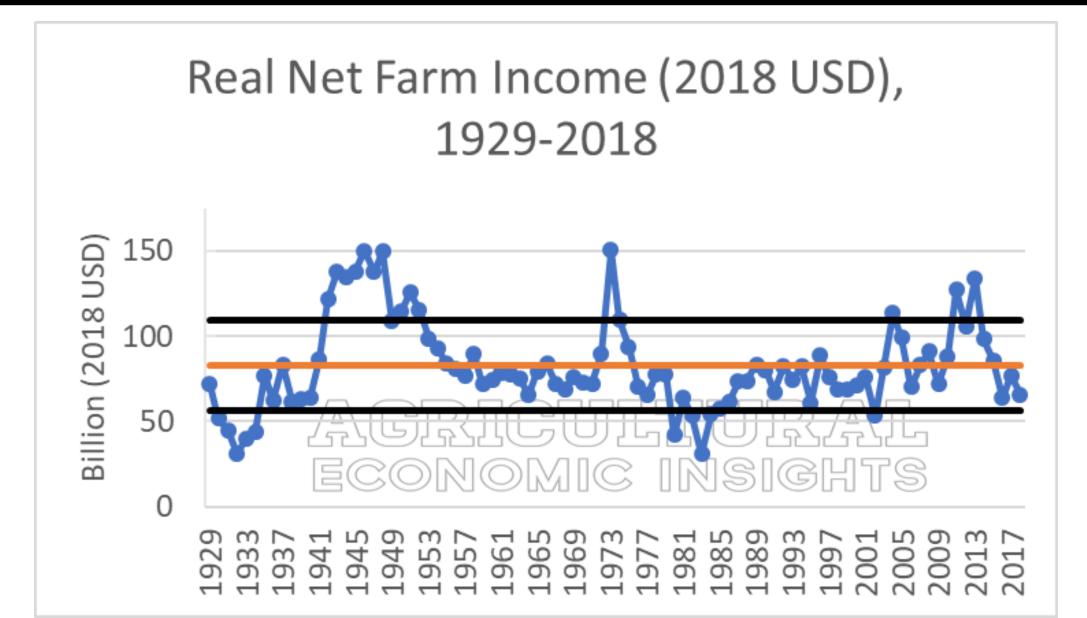


FIXED EXPENSES DECLINE



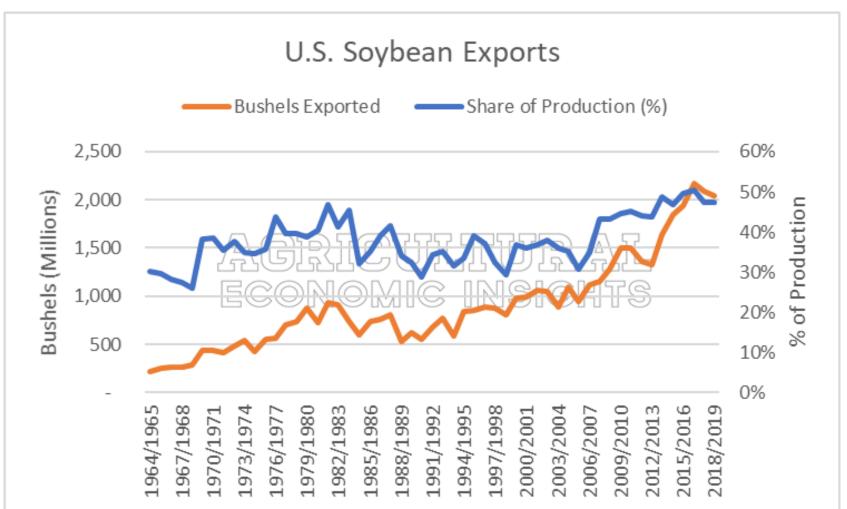
PRODUCTION COSTS AND COMMODITY PRICES MODERATE





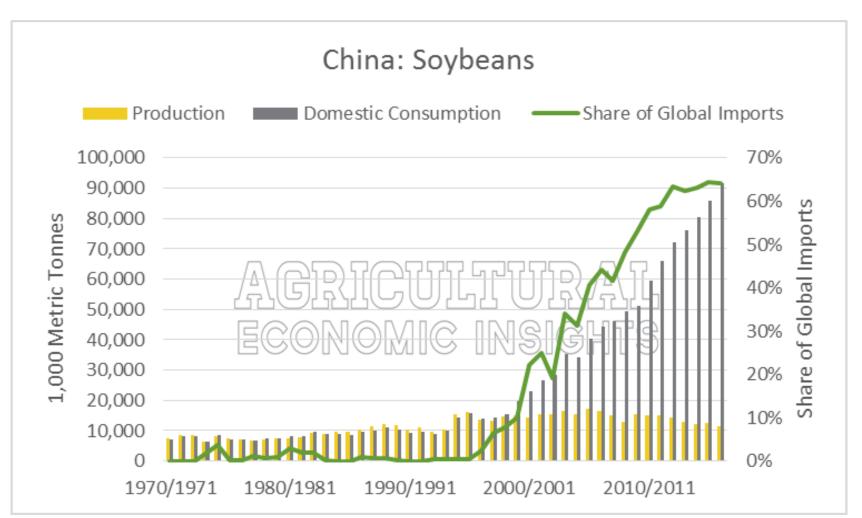


Demand





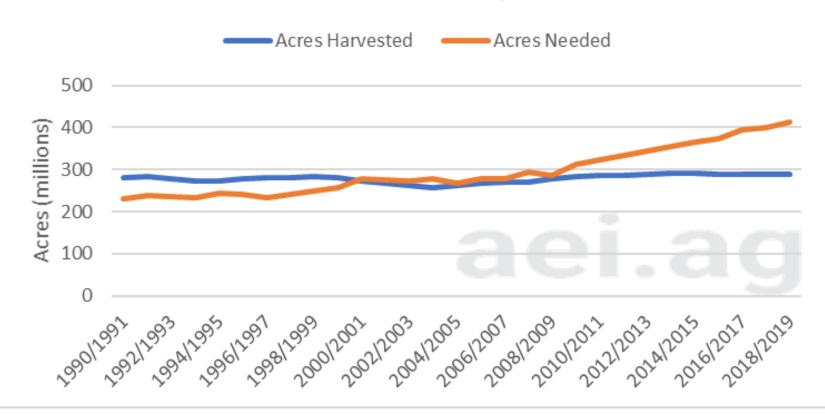
Demand





China's Acreage Gap

China: Acres Harvested & Acreage Equivalent of Domestic Consumption

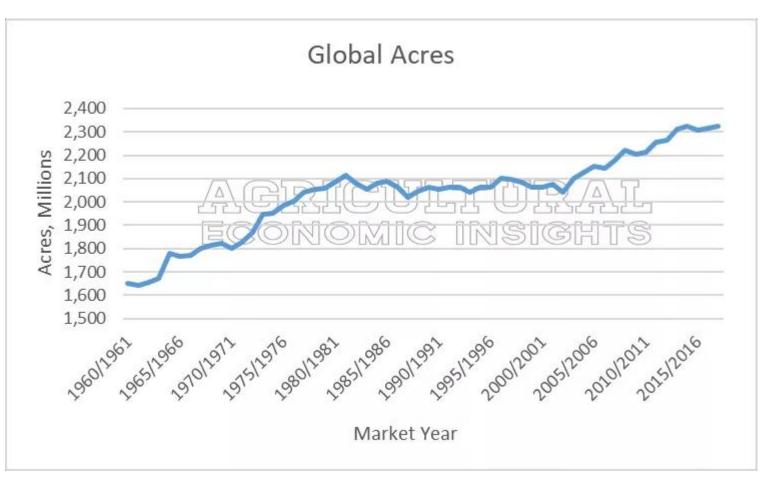


Consumption: 413 million Harvested Acres: 289 million Gap: -124 million (43% of harvested acres)



Supply Response: Global acres

- Up 249 million since 2000 (12%)
- South Am.: 78m
- Sub S Africa: 62m
- FSU: 42m
- E Asia: 20m
- Largest ever decline was in 87/88

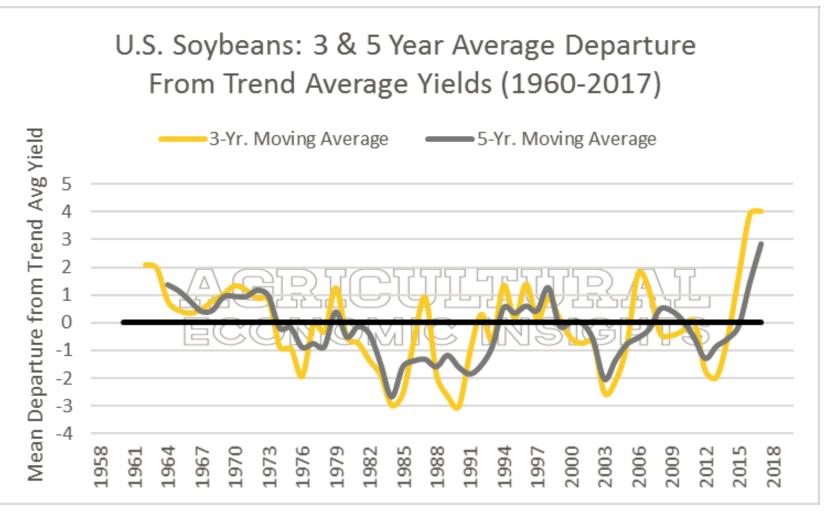




Recent Yields Have Been Really Good

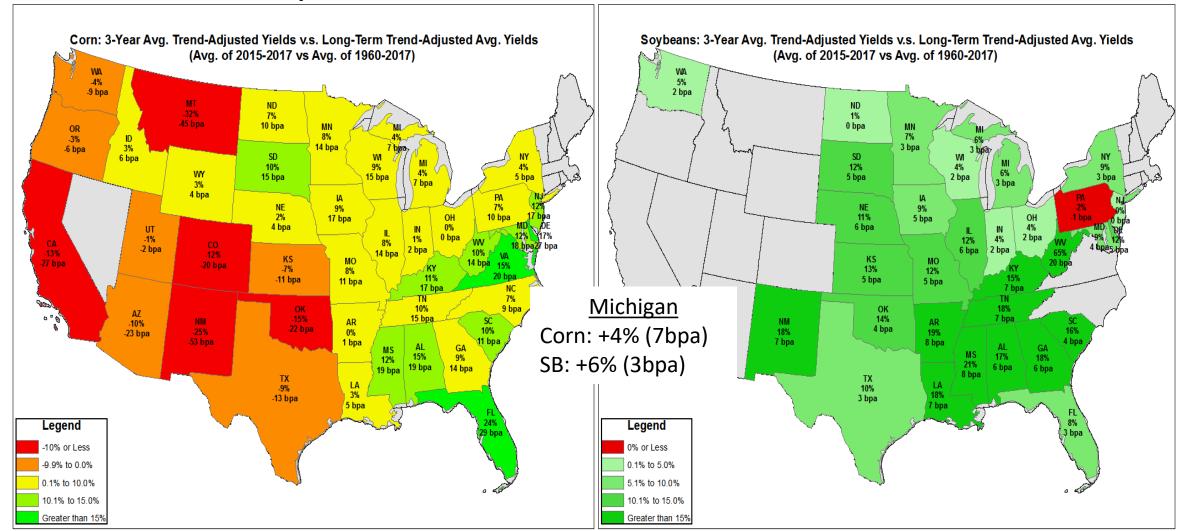
Use some caution when budgeting!







Corn vs Soybean: Be Careful

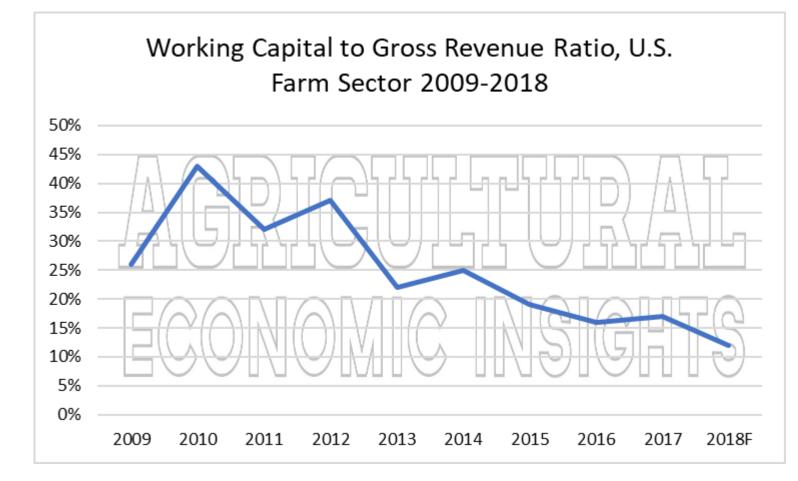


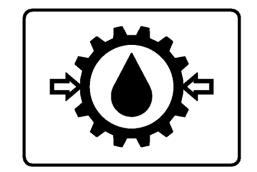
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Farm Financial Conditions



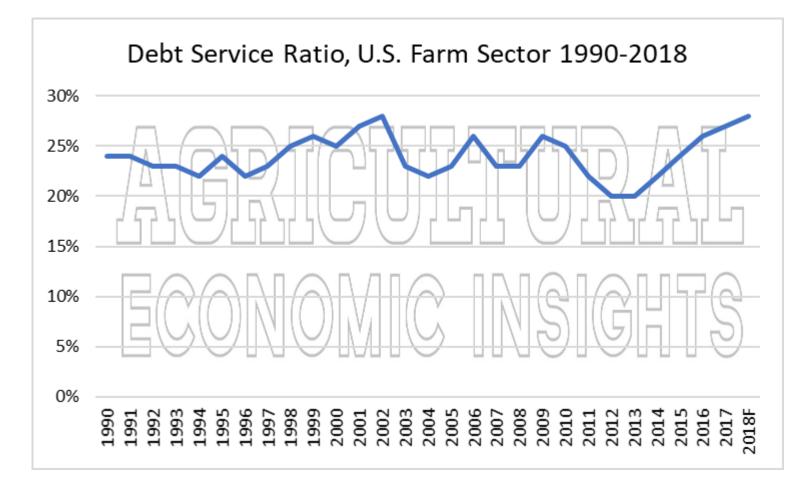
Working Capital: Warning Signal

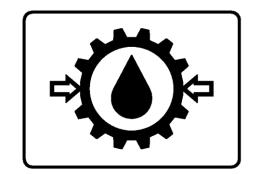






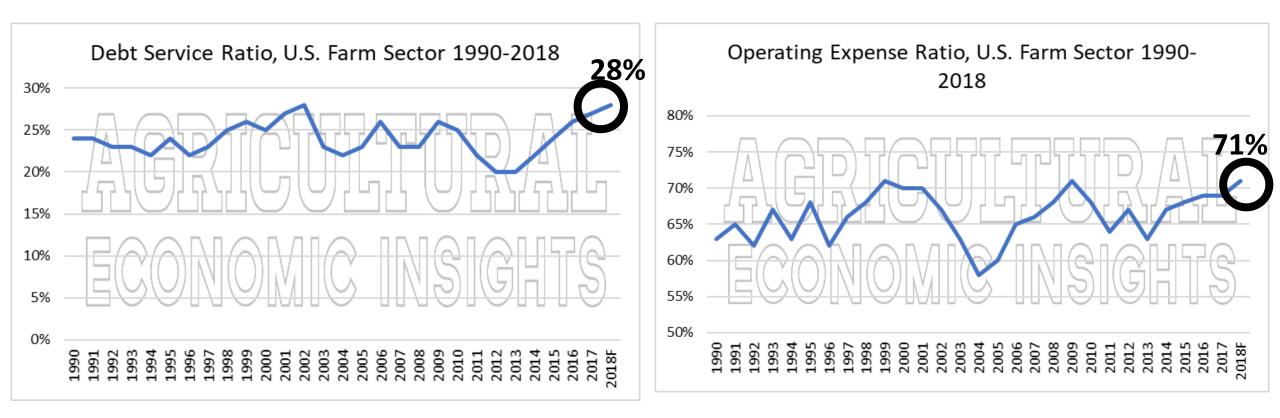
Debt Service: Warning Signal







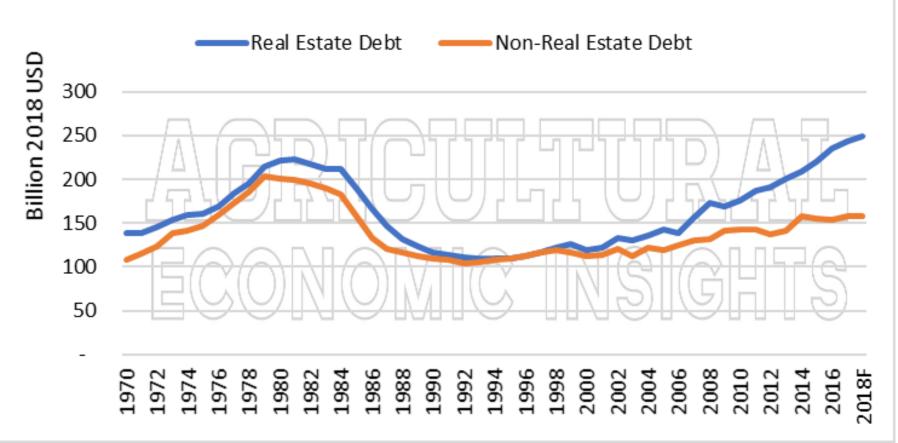
Debt Service + Operating Exp.





Farm Debt

U.S. Farm Sector Real Estate and Non Real Estate Debt (Real 2018 USD), 1970-2018f

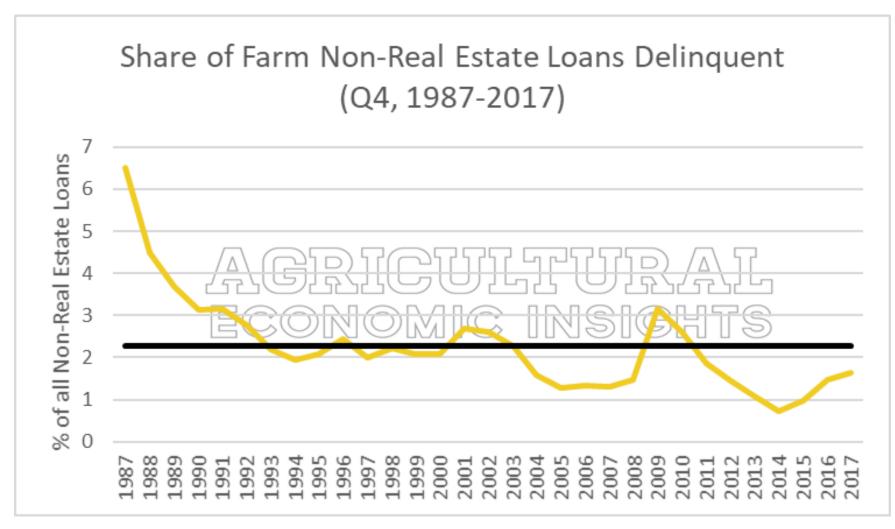


About 65% of all farms have no debt

Farms with >\$1 million in sales = 50% of all farm debt

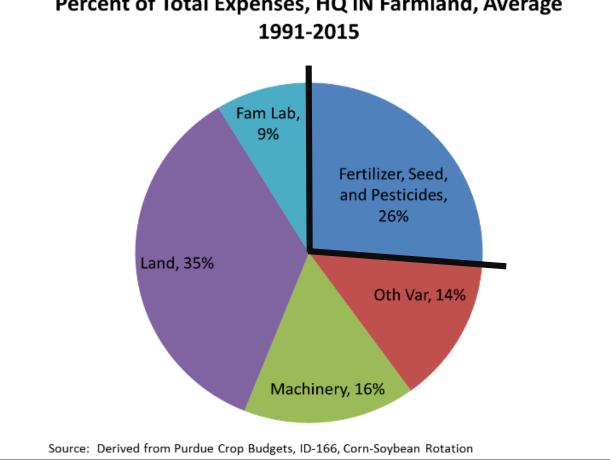


Farm Loan Delinquency Higher, Historically Low





What Costs Will Adjust to Alleviate Margin Pressure? Percent of Total Expenses, HQ IN Farmland, Average



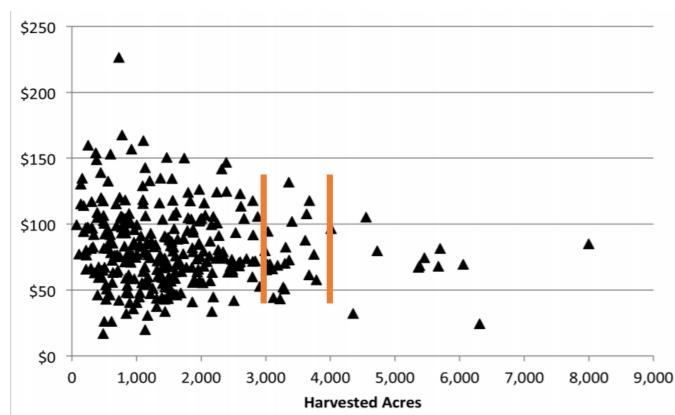


Machinery Costs and Investment

Crop Machinery Cost per Acre

 Machinery investment varies drastically

 This is one of the fixed costs that needs to adjust



Source: Langemeier and Ibendahl, "Crop Machinery Benchmarks." Journal of the American Society of Farm Managers and Rural Appraisers, 2014.



Farmland



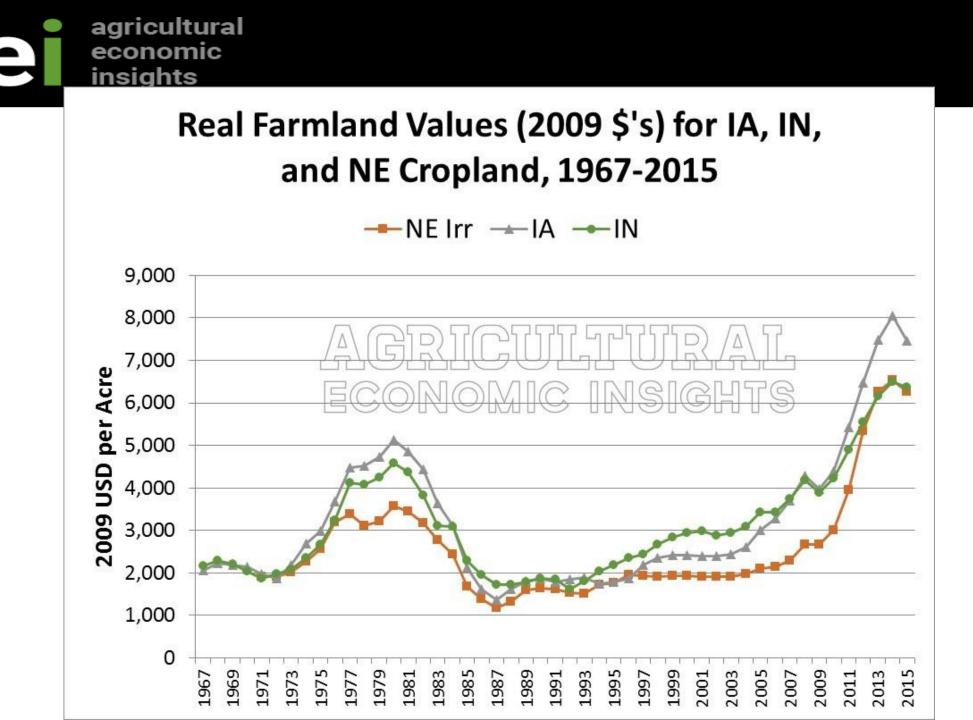
Farmland Valuation: A Review

- Asset Value
- Income
- Capitalization Rate

 $\frac{(RentalRate)}{(FarmlandValues)} = Cap Rate$

 $\frac{(\$210)}{(\$7,000)} = 3\%$

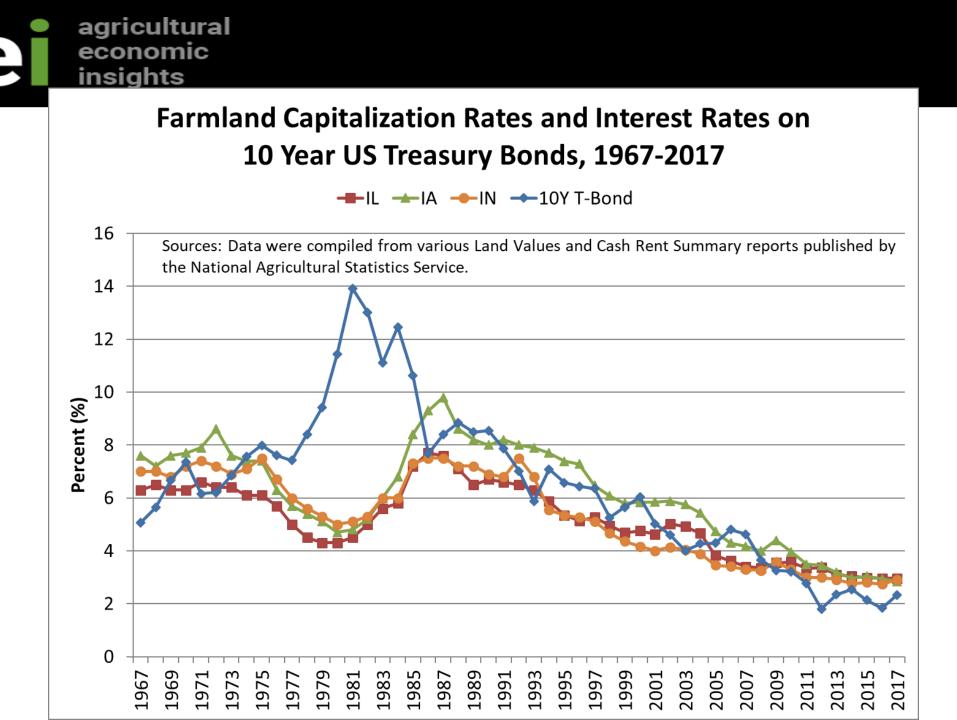
 $\frac{(RentalRate)}{(Cap Rate)} = FarmlandValues$





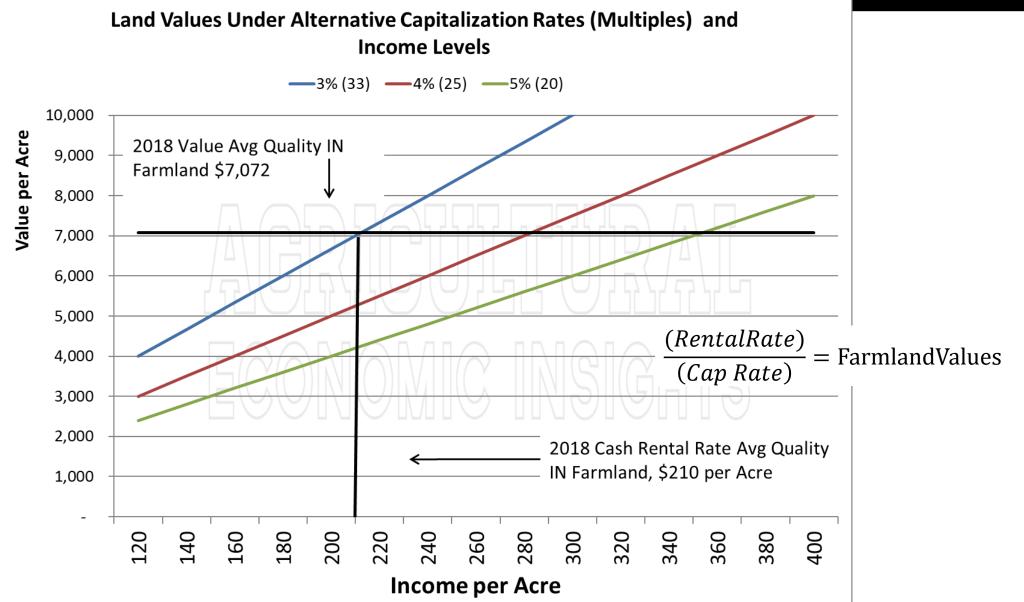
Income cannot support rents at these levels

Expected Return to Farmland as a Percent of Cash Rent, Average Quality Indiana Farmland 200% 150% 100% 50% 0%



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Very dependent upon low cap rates

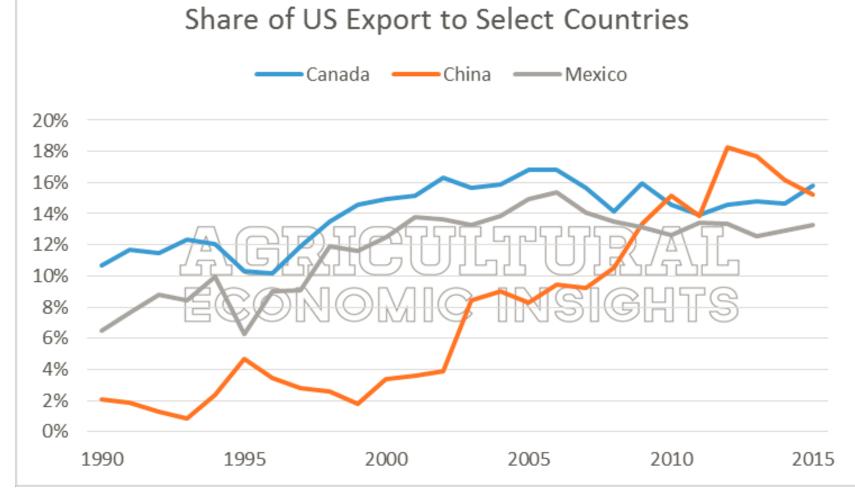


Trade



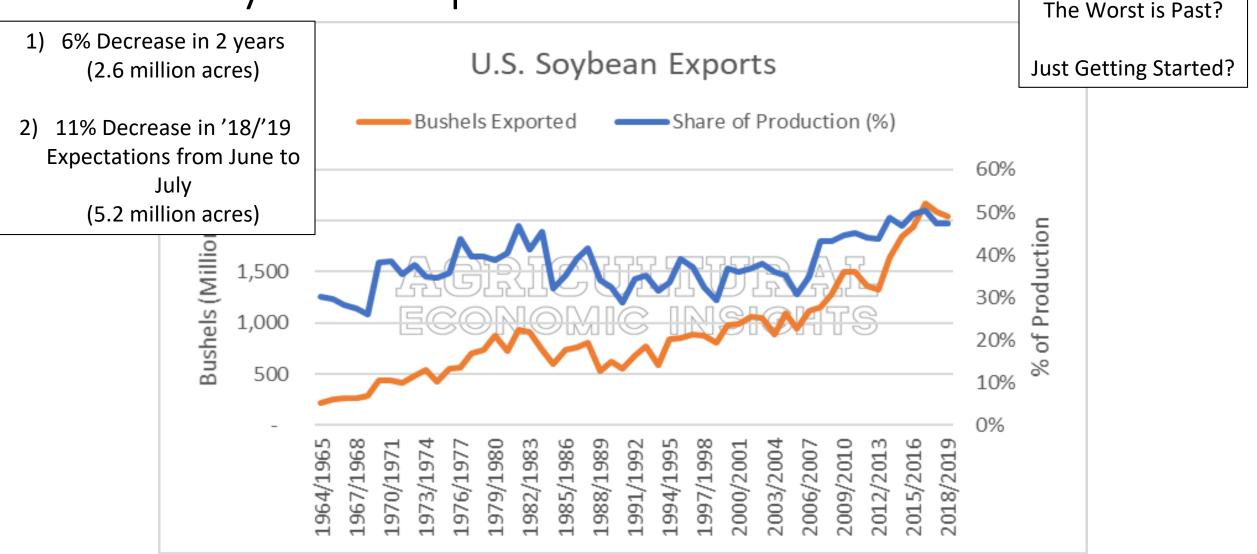
Where do US Ag Exports Go?

- Three largest export markets in 2015
- Combined: 44% of total U.S. ag exports
- 1990 = 19%



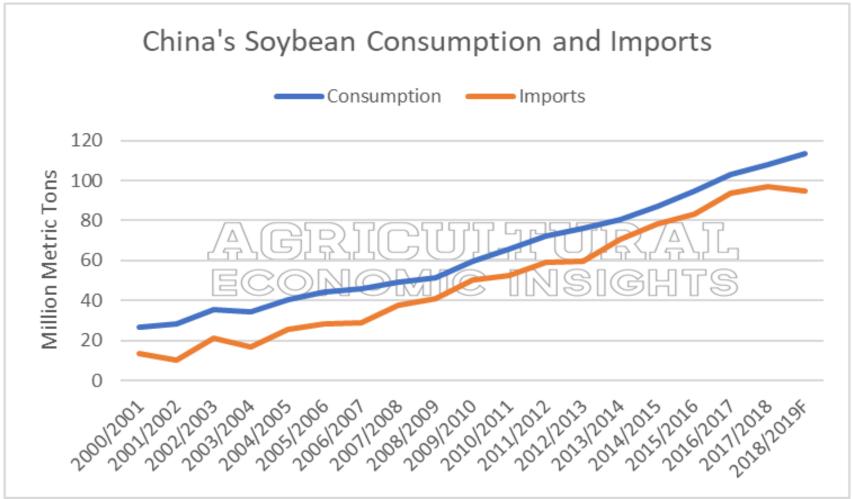


U.S. Soybean Exports



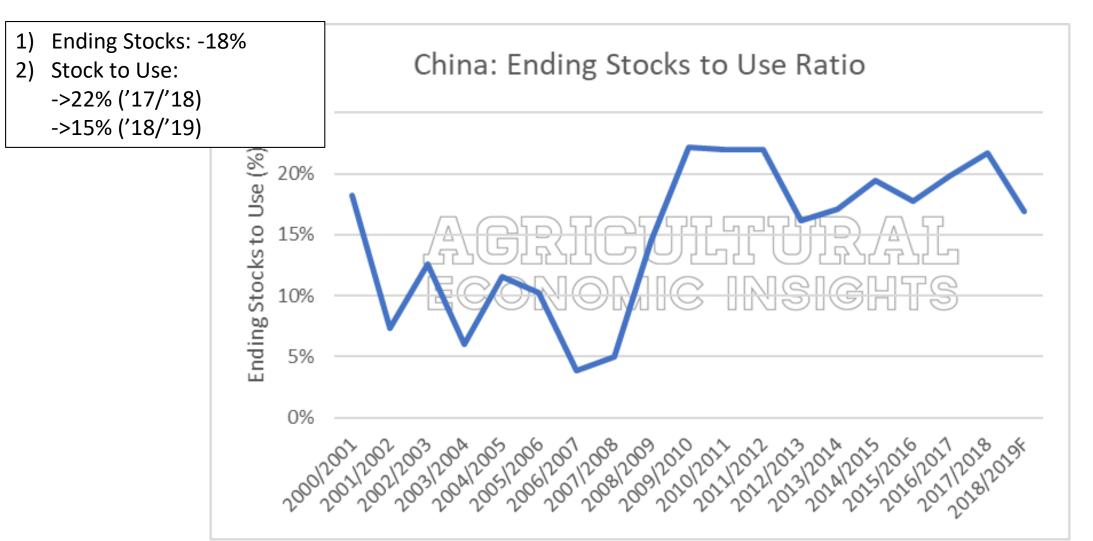


China & Soybeans Consumption, Imports, & Ending Stocks:



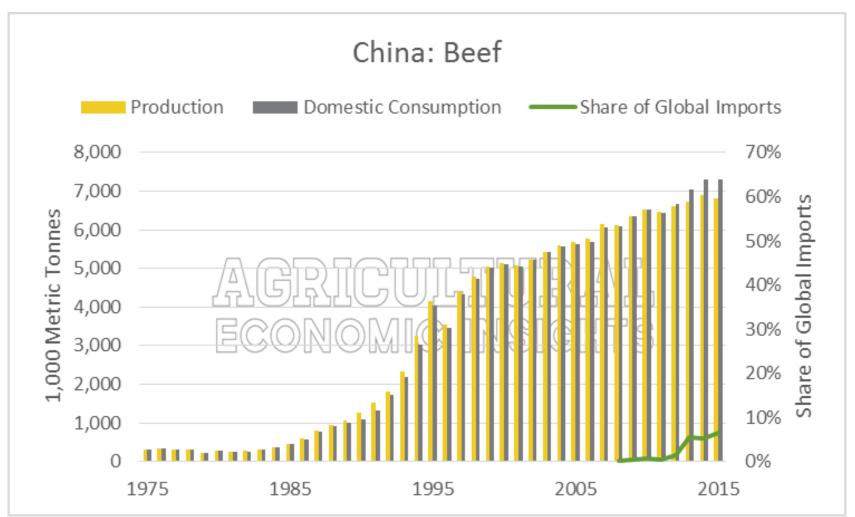


China & Soybeans: The Starting Point Matters





China & Beef: The New Soybean?



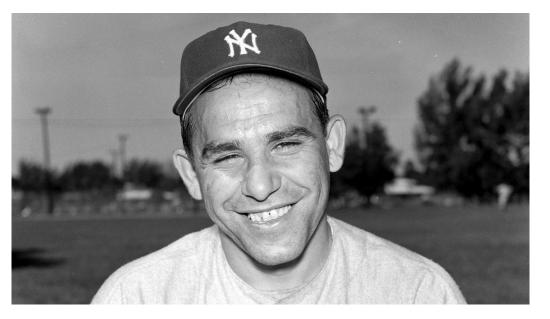


The Hard (or Easy) Part about a Trade War Resolution

- What does a better deal need to include??
 - National Security Needs?
 - Reduce the Trade Deficit?
 - More Exports??
 - Fewer Imports??
 - Reform China's Monetary Policy
 - Intellectual Property?



The Hard (or Easy) Part about a Trade War Resolution



"If you don't know where you're going, you might not get there." – Yogi Berra



"If you don't know where you are going, any road will get you there." – Lewis Carroll

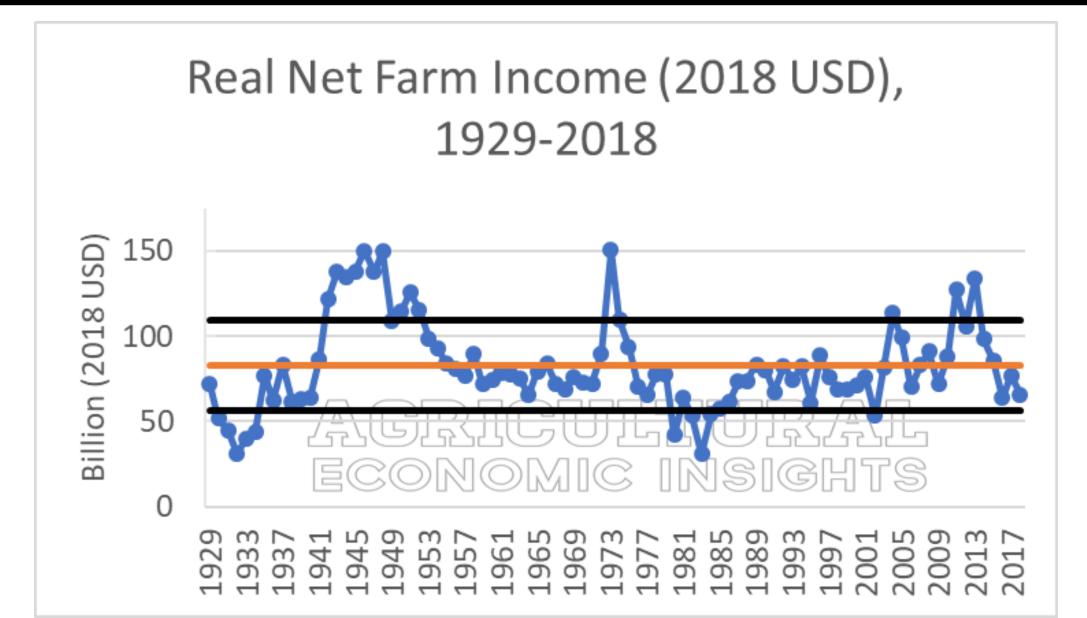


What about Trade Aid??

- Direct payments through the Market Facilitation Program
- Big checks: soybeans and cotton
- 2nd 50% of production payment in limbo...

Market Facilitation Program		
Commodity	Initial Payment Rate	Est. Initial Payment** (in \$1,000s)
Cotton	\$0.06 / lb.	\$276,900
Corn	\$0.01 / bu.	\$96,000
Dairy (milk)	\$0.12 / cwt.	\$127,400
Pork (hogs)	\$8.00 / head	\$290,300
Soybeans	\$1.65 / bu.	\$3,629,700
Sorghum	\$0.86 / bu.	\$156,800
Wheat	\$0.14 / bu.	\$119,200
Total		\$4,696,300







Summary Points

- Initially: text-book global oversupply issue
 - Yields haven't helped
- Today: Demand (a different ball game)
- Improvements have been underway... more needed
 - Lower Variable Costs, Lower Fixed Costs, (Mostly) Higher Commodity Prices
- The "impacts" have varied by commodity, region, farm
- Liquidity issues



<u>David's Watch List – Known Unknown</u>

- •Net Farm Income
 - Recovery in 2019? 2020?
- Trade and Demand Destruction
 - How Long Does Trade War Last. Recovery?
 - E15 to save the day?
- Macro Economy
 - Interest Rates

Impact of U.S Imposed Tariffs





What's Going Well-

- Wheat Economics Have Improved
 - Combined Corn/Soybean Acres Turned Lower in 2018
- Global Acreage Expansion Has Stalled
- Budgets have greatly improved
- Trade Aid will provide temporary help (a band aid)
- The Starting Point Matters- Farm Economy Started From a Strong Position
- USMCA Trade Agreement... or NAFTA 2.0

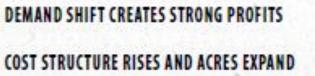
Farm Booms Always End.

10 W they end is the concern.





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