Climate Change and Agribusiness

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About Us

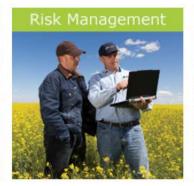
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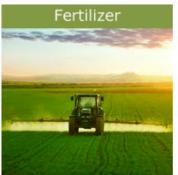






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U.S. Grain Production

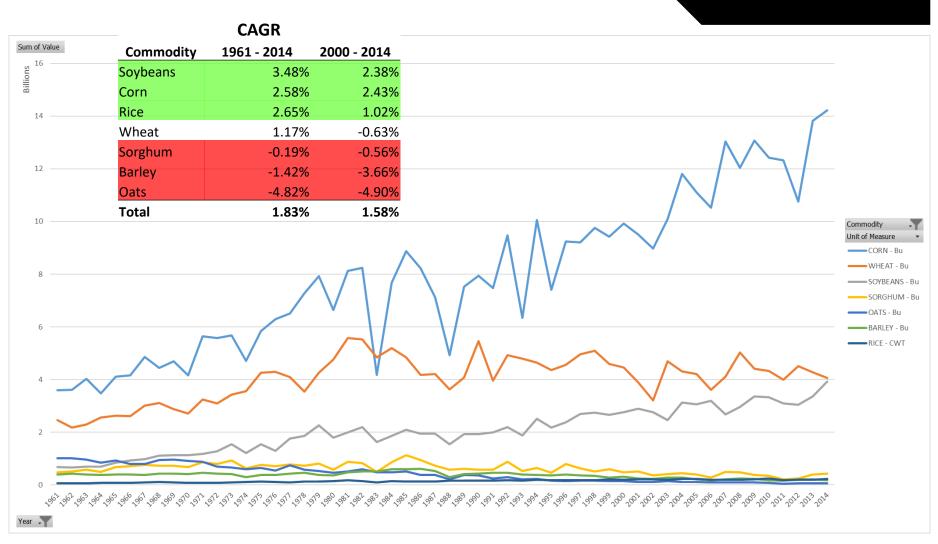
Domestic Use

Transportation

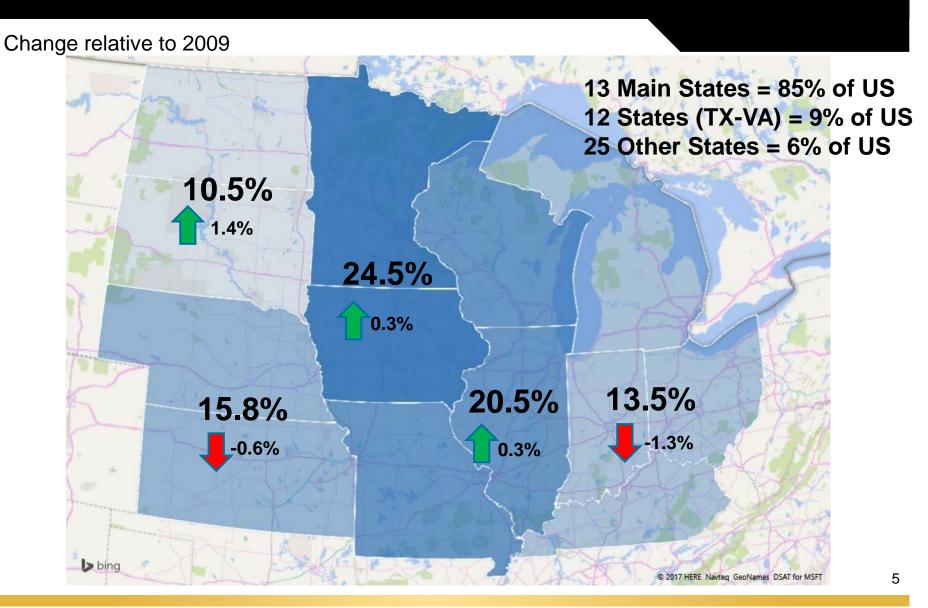
World Grain Production & Exports

Opportunities

U.S. Domestic Production Trends



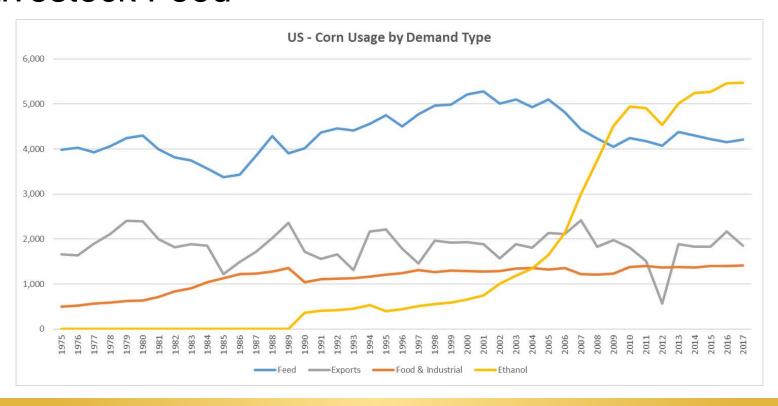
2016 US Grain & Oilseed Production Share



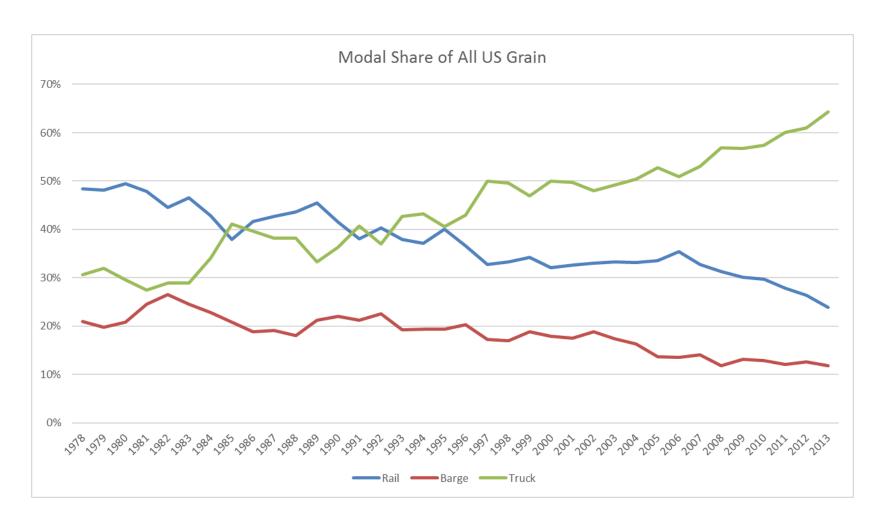
Source: USDA - NASS

Domestic Use Opportunities

- Corn Ethanol (E-15?)
- Soybean Crush (biodiesel)
- Livestock Feed



U.S. Grain Transportation



Truck Transportation

- Longer trips are more typical in northern and western markets.
 - Implications from reduced Arkansas River barge transportation.
- Livestock production moving north and additional processing capacity will reduce average trip length.
- Increasing capacity per truckload offered efficiencies through 1990's. Few efficiency gains have developed since.

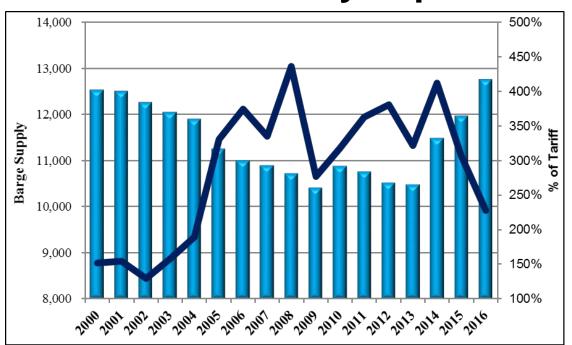
Rail Transportation

- Increased rail demand = 130 trains per month.
 - ~15% increase to 2013.

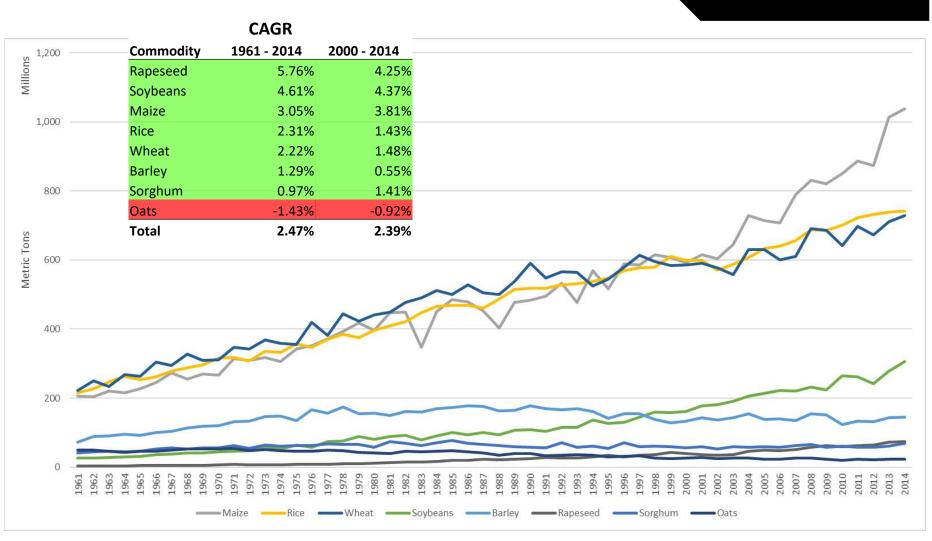
- Carrying capacity opportunities:
 - Railcar design,
 - Train length, or
 - GWOR increases.

Barge Transportation

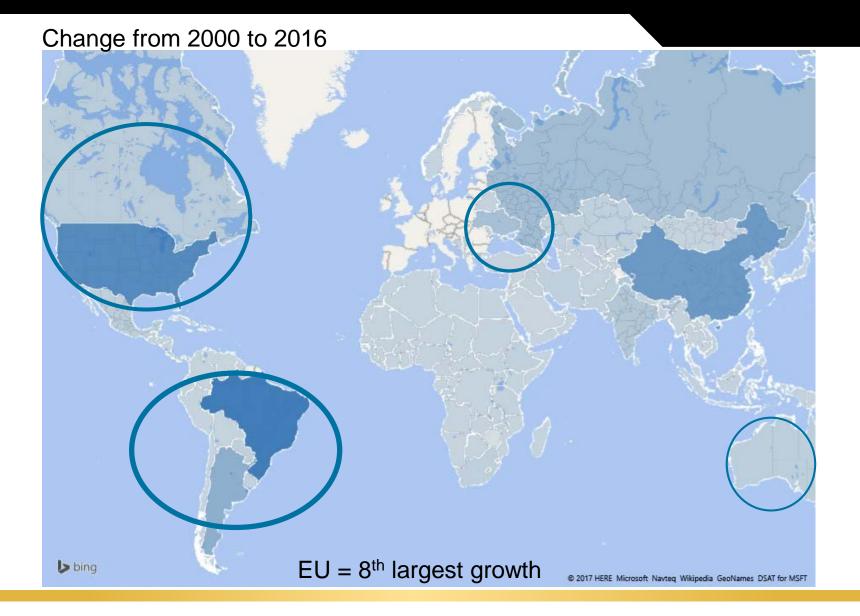
- Demand reduced by ~800 barges/month.
 - ~30% reduction from 2013.
- Mississippi River winter closure may shorten.
- Arkansas River most heavily impacted.



World Production Trends



Global Production & Export Changes

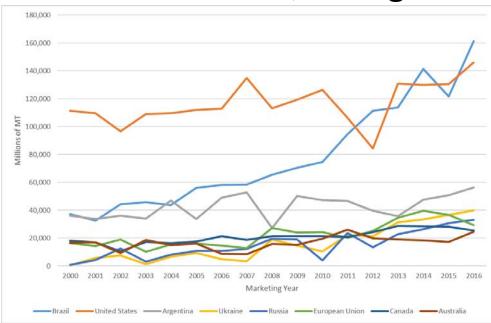


Global Grain and Oilseed Exports

- Brazilian export capacity investment continues.
- Black Sea Region export investment occurring, but not to degree of Brazil.
 - Possibly the most opportune future export region.

US' share of global exports will decline further, noting

reduced barge commerce.



U.S. Agriculture Investment Opportunities

Domestic grain consumption:

- E-15,
- Livestock.

Grain storage capacity:

- Increased 12 month consumption system,
- Reduced seasonal impact of exports.







Thank you!