



Surface Transportation Board
Washington, D.C. 20423-0001

Minutes of the National Grain Car Council Meeting

Thursday, September 13, 2018
Kansas City Marriott Downtown
200 West 12th Street
Kansas City, Missouri 64105

Attendance

Thirty-five members or designated substitutes and 73 members of the public attended. (Attendance sheets are appended to these minutes.) Designated substitutes included the following.

Phil Van Tassel	Montana Rail Link
Andy Laurent	Iowa Interstate Railroad, Ltd.
Amy Homan	Iowa Northern Railway
Matt Branch	Chicago Freight Car Leasing Co.
Mark Stefani	Citibank
Kira Murphy	Canadian Pacific
James Sobie	Trinity Rail
James Skeens	Norfolk Southern

AGENDA

- 1:00 pm
- 1) Welcome, call to order, and introductions
 - Chair Sharon Clark
 - Safety Briefing – Vice Chair Doug Story
 - Roger Fray or Bob Petersen – TEGMA
 - Introductions
 - Fred Forstall – Approved substitutes
 - Members – self introductions
 - 2) Adoption of 2017 Minutes – Sharon Clark
 - 3) U.S. Competitiveness in a Turbulent Global Market
 - Mike Steenhoek, Executive Director, Soy Transportation Coalition
 - 4) A Wall Street View of the Rail Markets
 - Jason Seidl, Managing Director and Senior Research Analyst, Cowan & Co
- 3:00-3:15 pm
- Break
- 5) Shipper Panel Moderator: Terry McDermott, Bunge
 - Oilseeds supply & demand dynamics
 - Brad Hildebrand, Cargill
 - US domestic market supply & demand dynamics
 - Bruce Sutherland, Michigan Agricultural Commodities (MAC)
 - Feed grain/wheat market supply & demand dynamics
 - Charlie Threlkeld, Consolidated Grain & Barge (CGB)
 - 6) Railroad Reports – Moderator: Doug Story
 - Class I reports
 - Class II/III reports

7) Rail Equipment Overview, John Glynn, CIT

8) Closing Remarks

- Chairman Ann Begeman

- Cochair Deb Miller

5:00 pm

9) Adjourn – Sharon Clark

Welcome, call to order, and introductions

After being called to order, Doug Story gave the safety briefing, after which Terry McDermott welcomed the NGCC on behalf of TEGMA. He noted that this was the ninth year that the NGCC annual meeting had been held in conjunction with the TEGMA fall symposium. DFO Fred Forstall reviewed and introduced approved substitutes, and members introduced themselves.

Adoption of 2017 Minutes

The 2017 minutes were approved as written.

U.S. Competitiveness in a Turbulent Global Market - Mike Steenhoek

The United States is both a producer for the rest of the world and a consumer of the products of the world. There has been a growth in global demand for protein and nutrition, and the United States is positioned to meet that demand with its farmers, shippers, and rail. With respect to agricultural products, the United States produces for the world. Supply has increased with a growth in demand for nutrition and protein. The transportation system must keep up. Demand growth has been most dramatic for soybeans, which move to many customers half way around the world. Although farmers are a declining constituency, they nevertheless remain a potent force on Capitol Hill. However, there is a transportation dilemma. Moving freight is not foremost in most people's thinking. The Soy Transportation Coalition has been in China since 1982. China has gone from zero soybean imports to importing 94 million tons (EU is the next-largest market at 14 million tons). China gets 38% of its soybeans from the U.S. China's growth in demand for soybeans has been exponential. There is no substitute for the Chinese market. The trade imbroglio has had an impact on the reputation of US producers relative to other producers of soybeans. It has been hard for US producers to adjust to the new paradigm, and farmers are looking for what to do with their "refugee soybeans," (i.e., soybeans without a home.) Brazil, United States, Argentina are suppliers to China in that order. A retreat in demand can have a big impact on price, and soybeans have low margins. Why should farmers care about transportation? Because our international competitiveness depends on it. YTD exports through August have declined 22.7 percent year over year as other countries have increased. Exports to Egypt and others have increased. but this surge does not equal profitability—Toys "R" Us saw a surge in sales before closing. A driver of the increased sales is a substantially lower price of soybeans. The U.S. has the best infrastructure for transportation in the world (better than Brazil) with its rail and barge advantages. Generally, free trade agreements have been beneficial, but the trade standoff is further inducement for buyers to look elsewhere. The Coalition has a top 10 list of infrastructure priorities, among them maintaining roads to waterways, dredging the lower Mississippi River to 50 feet (desired but "perpetually in the on-deck circle"), and reducing the likelihood of load restrictions on bridges. Bridge Load Testing Initiative, local efforts where the problem is most pronounced can reduce detours. Visual assessments are not accurate. Using technology to remove subjectivity can reduce the cost of detours. For example, Midland County, MI saw a 10% to 30% increased load, with \$100,000 annual savings from three bridges due to reduced fuel costs. The Federal Government should consider infrastructure as a tool, in addition to subsidies, to reduce the costs of the trade dispute while enhancing long-term competitiveness.

Q&A:

Someone asked about Brazil's ability to ramp up production. Mike said that Brazil has land but is reticent because the paradigm is not shifting. Brazil has also had a truck driver strike.

A Wall Street View of the Rail Markets - Jason Seidl,

Jason is responsible for his firm's macro railroad and motor carrier (both TL and LTL) views. At the macro level, GDP is good/above trend. There is a low risk of recession and low unemployment, and the yield curve is not inverted. It is a good time to produce stuff. Railroads are also good; volume is up 4 percent year to date. There is strength in various commodities but expect intermodal to increase as shippers are frustrated by trucking. Agriculture is up 5%, but coal is dipping slightly. There is strength across all modes of freight. Storm impact? With respect to agriculture, there has been greater than expected production and inventories of corn and soybeans. Shippers expect a 4.7% increase in rail prices due to the economy and the trucking supply, and they expect 3.5% growth. Crude by rail is also expected to increase.

The economy and tight truck supply are driving the increases. There was all good news at a recent freight conference. The upcoming peak season is expected to be strong. The truckload market is as strong and the supply of truck drivers as tight as Jason has ever seen, and deliveries are low right now due to the supply chain. He expects mid-single digit price increases in 2019.

Temporary impact of storm. Supply chain issue for components. "What is it going to take to get drivers back in the marketplace. Trucking companies are failing to attract young drivers even though pay is up double digits to \$55k; that number will keep inching up to the magic number. Easing regulations will create some bump in capacity. There are big orders for trucks right now, but OEMs can't deliver new trucks due to parts issues (plastic parts) and the driver shortage (USA Trucks example). Hiring is better for railroads than for trucking (unionized, pensions, higher starting salaries), but railroads are having difficulty finding candidates who pass drug tests.

Q&A:

Jason was asked about the Wall Street focus on operating ratios (OR) and whether there is a correlation between low OR and reduced service; share buybacks; autonomous vehicles and electric trucks; Class I investments in infrastructure; and freight demand. Jason noted that railroads are all about operating profits. (NS is more conservative but is "not good enough" for some investors.) Railroads are not as nimble, but there is no correlation over time between OR and reduced service. CSX may have reduced OR too much, but over time he doesn't expect low OR to impact performance. CSX has seen a massive improvement. Jason thinks that the focus on OR, which started with PSR, is ironic. He noted a correlation between capital spending and return on capital and suggested that railroads should properly focus on the return on invested capital. Jason thinks that share buy backs are like "crack" to railroad executives, who cannot stop because investors want buybacks. Thus, there is pressure on senior managers to continue them. Railroads are also borrowing to do it, but that will probably stop as interest rates rise. He thinks that completely autonomous trucks are decades away but that limited airline-style autonomy (i.e., drivers still required) is closer, perhaps 8-10 years away. To facilitate platooning, a massive investment in road maintenance is necessary. Also, Washington may not like the impact on jobs. He expects that sensitivity to employment (or unemployment) will create drag (i.e., a public factor). Autonomy makes more sense in rail as railroads build on PTC and as Rio Tinto is doing in Australia and passenger rail is doing in the U.S. Unions and the FRA are factors. Electric trucks are being tried out but still need 18-24 months for testing. Greater purchases are necessary. Class I investments in infrastructure are #1 in the world because the railroads control the right of way. Regarding freight demand, he sees a lack of workers and wage inflation as issues. Railroads will go after the intermodal market, but they need to be more consistent to gain market share.

Shipper Panel

Terry McDermott moderated the shipper panel initially noting that it has been "something" every year since 2012. Continuous change.

Oilseeds supply & demand dynamics - Brad Hildebrand

These are the most uncertain times in the past 30 years. As of July, most states saw an increase in soybean production due to more acres and ideal growing conditions, with 4.693 billion bushels expected in 2018 as of yesterday. It is an optimal year for production, above the trend line.

Expect a record year with “lots of beans,” an increase in production of 100 million bushels. A record crush is expected (2.07 billion bushels) due in part to the Argentinean drought. There is a “cloud over the market,” but Brad would much rather have good production than not. US exports are at 2.06 billion, which is strong but without tariffs it could have been 150-200 million more. China will still need to import 5-8 million because it is harder for China to wean off oil since it needs to keep the population happy. What is the impact of tariff? – a “good year but could have been a lot better.” There is plenty of stocks but bean prices are in the tank now, some below the cost of production. The government has budgeted \$1.65 billion for assistance. Brad hopes cooler heads will prevail but doesn’t expect either President Trump or China to back down. In the coming year, he expects to see the highest stocks-to-use ratio in a long time.

US domestic market supply & demand dynamics - Bruce Sutherland

With respect to Midwest (IN, IL, MI) supply and demand, record yields are expected. The USDA is calling for a bumper crop (despite a July drought in Michigan), and all three states have seen an increase in corn feed/fuel. Expect record beans in all three states; acres of beans equaled acres of corn for the very first time. There is an increase in processing in all three states. Domestic consumption has increased for both feed and fuel. Hog production up across all three states. Michigan has one of the largest hog processing plants in Coldwater. Also, expect an increase in milk cows. Milk production is up in Michigan and Indiana 11% and 14%, respectively but down 5% in Ohio. Egg production is up 19% (organic especially). More trucks will be on the road delivering beans to new producers. Bruce thinks that the average corn crop will offset the tariff issues, but that we will be storing soybeans. Elevators will hold back beans and ship corn during harvest. His company has 43 million bushels of space. He expects “difficult execution” logistically, noting both truck capacity and infrastructure issues. Michigan highways are a problem, and it will also be hard to move soybeans with a lack of trucks and drivers. The logistical situation will weaken basis values. With respect to rail, he expects delays in rail service because MI is “last in line.” He expects shorter line hauls and less revenue for MI short lines. Increasing Class I rates have changed values, and Bruce is worried about the overall health of the short lines since most of Michigan is served by short lines. He wonders if there are ways to reduce paper barriers, and suspects that Class Is may need to move grain shorter distances.

Feed grain/wheat market supply & demand dynamics - Charlie Threlkeld,

On the corn side, the US had 2.425 billion in corn exports last year and expects 2.4 billion this year. Looking at the world competition, South America is countercyclical but has less available. Brazil is countercyclical for season, has two corn crops, but corn acres are less. The United States could have record exports next year amid the second largest corn crop. With respect to wheat, the United States are in the “back of the bus” among the “big 7.” The EU, Canada, Australia, Russia, Ukraine, and others are also big. The EU struggled with warm weather. Russia, Ukraine, and Australia also had issues with adverse weather. But our exports are projected to be up. Where are barge rates – trend is higher which will push grain back to rail. Cheaper barges would tend to pull more bushels to the Mississippi River, but the trend is 150 points higher than last year, pushing grain back to rail.

Q&A for the panel:

The panel was asked whether covered barge capacity was increasing. The largest manufacturing facility shut down, and fracking sand is taking barges out of supply, but the size of the fleet hasn’t changed. Operators put covers on the open fleet, but then Southern Illinois coal recovered, so they pulled the covers off. The panel was also asked about bean flows and bottlenecks. Flows will probably go to St. Louis rather than the West Coast, but lots of beans will be kept off market.

Railroad Reports

Doug Story gave introductions and posed initial questions.

Class I reports

Kansas City Southern – Mike Bilovesky

PTC will be operational by year end. KCS obtained a two-year extension for interoperability testing. No operational problems yet but going forward? The expectation is for increased traffic to Gulf Coast. KCS has been spending more revenue on CAPEX. In 2016, it spent 18% of revenue on CAPEX and in 2018, 29%. The CEO is adamant that fast growth means KCS can spend more. Is KCS ready for harvest? It was “Blah” in August, and today KCS has a “service blip,” Mike is not as comfortable as in previous years. Though KCS expects to generate more loads in the 4th quarter, KCS is not ready for the increase today. He attributed the “blip” to the Mexican national union elections, which effectively shut down the railroad for two days. On average, 24 trains cross the border each day (12 KCS, 12 UP). The blip dropped 602 cars because of a 10% drop in velocity. Congestion at Laredo filled up sidings. Half of the sidings are blocked from Kansas City to Mexico City (1950 miles). There are 6025 grain cars in the KCS fleet. Average turns are 1.2 trips per month. A decrease to 1.1 trips per month would reduce capacity by 600 carloads. An 8 percent increase in ag business is expected (7,700 carloads). Mike expects KCS “will struggle filling orders.” Running international crews has provided a bump in capacity at the border (33% capacity increase). When asked about staff, he said KCS is up year over year.

CN – David Przednowek

CN is catching up from being “behind the eight ball.” With respect to capex for infrastructure, CN spent \$3.5 billion, putting it in the densest areas and adding 60 miles of double track and sidings before winter. Trying to get ahead of the curve. CN has 1900 high horsepower locomotives and is spending heavily for locomotives with 150 leased units and 200 new units on order being built. An order for another 60 was announced last week. Aggressive hiring and training are under way for the Southern Region (i.e., the United States) with a net increase of 200 T&E crewmen expected by December. Trying to take a “fair approach to assessorial charges by adding days of service. Demand can change quickly, and the future is uncertain, but the goal is growth. CN relies on customers to project demand and is “one tweet away from more business.” CN has had to deal with minor storm damage (wash outs and such). CN expects to implement PTC fully by 2020; 58 percent of the footprint is implemented. PTC is operable on 35 subs, which satisfies all milestones, and there are only four subs left to be completed.

Norfolk Southern – Jim Skeens

It has been a challenging year. NS was not resourced at the beginning of the year but is now hiring, leasing locomotives, and increasing velocity, an aggressive “resourcing up.” There are 1,800 new T&E crewmen (against a plan of 1,100) or a net increase of 300 T&E crewmen. NS is not where it needs to be, but resources are better than in January. For weekend service, NS is “clean-sheeting” and determining what is best for each yard. Demand is strong. Velocity is not where it needs to be. Drilling down to each serving yard. Making slow progress toward. Help to move unscheduled trains. Speed and dwell statistics progressing by fits and starts. NS is trying to add service and are reviewing charges to provide credits where it is under performing. NS has spent 17%-18% on capex (the goal is growth) and has partially implemented PTC. Jim answered questions about growth (if the opportunity is there, NS will take it) and Hurricane Florence (better prepared this year with more T&E employees available, but NS is not where it needs to be). Chairman Begeman asked when NS will get where it wants to be, and Jim said that hiring is a challenge; NS will add 200-300 employees net by year end who are needed to move unscheduled trains. When asked if NS was moving headquarters, Jim said he hasn’t heard anything official.

Locomotives

- Total units in service (including leased units) – 3,950 (average MTD as of 08/16/18)
- Units stored serviceable – 0

Grain cars

- Total cars in grain fleet – 3538 (as of 08/16/18)
- No. in unit trains 3150
- No. in single car service 384
- Plan to keep 30-32 sets in service for harvest

CSX – Rob Finch

CSX is ready for harvest. The network is running better, and the metrics are moving in the right direction. Most [operational] changes are “behind us.” Year to date, train velocity is up, and dwell is down from 11.5 hours to 9.7 hours. The railroad is running as good or better than before PSR. 500 locomotives are in storage. There are enough T&E crews to meet demand; 180 T&E are on furlough, but 56 were recently called back. The fleet includes 3500 covered hopper cars. The CSX Express Program is doing well, with 69 participants (15-hour turnaround). According to the demand forecast that CSX receives from its customers, the last half of October and the first half of November are expected to be the peak. Prior to Hurricane Florence, CSX expedited key shipments, drew resources out, has five ballast trains ready, and worked with unions to have people ready. PTC work is on track to meet the 2018 extension. CSX does not expect much going to the PNW but rather expects incremental ag volumes to the Gulf and East Coasts. There are no other plans on the radar right now. CSX believes that you can have a lower operating ratio and a better product. Vice Chairman Deb Miller asked about reorganization of regions and divisions (still too early to tell effects, and still have positions to fill) and about accessorial charges and shipper complaints. CSX claimed it does not want to drive revenue with supplemental charges but rather move cars faster. The goal of accessorial charges is moving equipment. Board Chairman Begeman asked whether CSX is reopening Nashville. CSX confirmed it had reopened the Nashville hump but said that there are no other yard opening plans.

Canadian Pacific – Kira Murphy

CP is well-positioned to move the harvest, expects a large crop in Canada, and is working with customers to move it. Trade tensions are a wild card potentially leading to different traffic patterns. CP will hire 700 new T&E crew and will acquire 100 remanufactured high-horsepower locomotives. The grain car fleet is 16,500 cars, one third of which are moving in the United States. Also, CP is investing \$500 million in new grain cars (shorter, higher cube cars) and invested \$1.5 billion total in 2018. Dwell was longer earlier but is back down now. Train weights and lengths are up. The current target length is 8,500 feet. New cars will provide a 16 percent increase in capacity over a 7,000 foot train. CP expects 2-2.5 trips/month to the PNW. 8500-foot trains with new hopper cars has led to a 44% lift. The last PTC challenge is interoperability; a new implementation plan has been submitted. When asked about bean exports from Vancouver, Kira reported that Canadian beans are moving out well but was unsure about US beans. Eleven out of 154 high throughput elevators (16-hour load time and 24-hour turnaround time) have 8,500 foot capacity. CP sidings are mostly 10,000 feet long.

Union Pacific – Dan Hartmann

UP has 17,000 active T&E crews and a robust pipeline of new graduates, ~ 200 per month. There are 8,200 total locomotives with an average age of 20 years. Of those, 300 are stored for surge capacity. There are 15,000 grain cars with 14,000 in active service and an average age of 20 years. UP expects to implement fully PTC by 2020. PTC has been installed on 100 percent of the lines and locomotives and will be 75 percent completed by the end of the year. With respect to short lines, most have equipment in place already. UP is working with both Class I and short lines on interoperability. Regarding trade, UP is looking at how to build up area bases if a shift to the Gulf of Mexico happens. UP can accommodate some growth and is embracing technology (e.g., mobile work order process, better accuracy of ETAs, new system incorporates GPS). Crews now have handhelds to log work events so that customers know instantly and ETAs are in GPS now, making real time adjustments. UP is making changes to increase consistency to instill higher confidence on the part of shippers.

BNSF – Scott Stoa

BNSF has 7544 locomotives, 80% of which are high horsepower, and a surge (stored) of fleet 430. BNSF has pulled many out of storage. Total fleet of ag covered hopper cars is 29,400, of which 7,000 are older 268 K and 22,400 are 286 K. 7100 are newer shorter cars. In 2018, 1018 new cars were added, but there has been no net growth to the overall fleet. BNSF has 140 shuttle sets, which looks solid to late spring. Total TY&E is 18,188 with ~ 2,300 new hires this year and continued hiring expected next year. Current furloughs are 41, near the Mississippi River. Manpower is a primary resource concern; it is a “tough job market.” BNSF is trying to “keep people in the chair.” The tariff situation is disappointing. Scot is not sure where the volume wants to go or will go but is ready if it comes. BNSF sees traffic increasing toward the Gulf, Mexico, and Mississippi River and away from the PNW. BNSF has met all PTC requirements with the exception of interoperability. It is proving to be worth the investment. With respect to metrics, operating ratio is less of a focus. Given BNSF ownership, return on invested capital is the more important number. Coal is not down as much as expected. In answer to a question about capacity at St. Louis for beans, Scot noted that BNSF hasn’t tested what St. Louis can do and no one knows what the capacity is across all railroads. He expects that this will be a record year for BNSF.

Locomotives

- Total fleet – 7,544 units
- 6,026 high HP units
- Surge Fleet set at 430, down from 800 in January

Grain Cars

- The current Ag covered hopper fleet is 29,400
- 268k fleet is at 7,000
- 286k fleet is 22,400 (includes 7,100 new generation) shuttle cars
- 2018 hopper acquisition set at 1,080
- 140 shuttle sets operating the full year 2018

Crew Resources

- 18,188 Active
- 2,288 new hires for 2018
- Current furlough count is 41

Class II/III reports

Montana Rail Link – Phil Van Tassel

MRL has 76 locomotives and 1,100 railcars. In 2017, MRL shipped 86,000 grain cars. Heavy volumes have continued. MRL has experienced issues finding employees. MRL hired 100 this year, is hiring 22 switchmen per quarter, and is investing \$68 million in capital improvements.

Locomotives

- 76 locomotives in MRL fleet
- MRL acquired four additional SD70 ACE’s that will be delivered this fall.

Grain Cars

- 106 cars in grain fleet, all in single car service.
- Shuttle Trains/UGT anticipated to operate during harvest, and shuttle turn time are BNSF driven metrics.

Crew resources

- Hired 100 new employees this year:
- 34 of which are track laborers, bringing total number of track laborers to 262.
- 40 of which are switchmen, bringing total number of operating employees to 430

- Plans to hire an additional 22 switchmen per quarter for the immediate future.
- MRL does not have any furloughed employees currently.

Nebraska Central (Rio Grande Pacific) – Mike Haeg

There are 21 locomotives in the fleet. With respect to car supply, singles have been a challenge. Labor is really “tough.” After screening applicants for background, drug use, and physical condition, not many people are left. Nebraska Central is trying to hold on to its employees. Market condition expectations are erratic. The expected harvest outlook is 50% of the previous year for beans, and corn is better with a 26-cent spread.

Locomotives

- 21 locomotives in the NCRC fleet
- Class I run through power for unit/shuttle trains

Grain cars

- NCRC relies on class I car supply for both singles and units
- Unit/shuttle trains generally turned to and from Class I within 24 hours

Crew Resources

- Actively hiring crews in advance of harvest
- No furloughs – labor situation is tight

Harvest outlook

- Erratic market conditions
- Late Sept/Oct/Nov harvest push, especially for soybeans, will not be nearly the same push as last year. Expecting about 50% of previous years. Customers are expecting a delayed big push on soybeans in Jan/Feb/Mar 2019.

Iowa Interstate – Andy Laurent

On the service front, IAIS experienced high waters in Iowa. A July storm inundated the mainline, which was returned to service in four days. IAIS lost a bridge on the main line. Chicago is in better shape now than before; fluidity has improved. The storage market is strengthening. Car supply is well-sized for IAIS needs. There are 40 locomotives. At the moment, half are high horsepower, but this will increase. With respect to PTC, IAIS runs on Metra and got a federal grant. IAIS is hiring. Capital expenditures include replacing rail; the entire system to Des Moines is complete.

Rapid City, Pierre, & Eastern (Genesee & Wyoming) – Jon Harman

G&W has 6,012 grain cars in its US fleet. He expects a lighter harvest, is seeing interest in St. Louis, and is comfortable on car counts. There are no furloughs, and the railroad is actively hiring. The tariff situation has impacted the flow of other commodities.

Iowa Northern Railway – Amy Homan

On PTC, Iowa Northern got a grant and is complying. Motive power consists of 21 locomotives and 6 slugs. IN has the best trainmen around, and the Class Is keep “stealing” them. Car availability is not an issue. First mile, last mile is our business; we work closely with our shippers. Though proud to be independent, we expect continued consolidation in the short line industry.

Watco Transportation Services – Doug Story

Watco has 39 railroads with about 150 locomotives, and 1,700 covered hoppers across all railroads. They are staffed relatively well, but it is a tough market. They have experienced flooding in Wisconsin. The business model is to take care of the customers, to whom Watco depends on to grow. Watco railroads with grain traffic include KO, SKOL, WSOR, GDLK, AA, PCC, EIRR, ARS, and MSR. Locomotives – 143 locomotives across all railroads

Grain cars

- 1,675 covered hopper fleet across KO, SKOL, WSOR, and PCC.
- Shuttle trains across the Watco network use Class I power and Class I or private equipment and operate within the interchange times specified by Class I partners.

Crew Resources – All railroads are fully staffed.

Harvest outlook

- The market conditions continue to be very inconsistent with the tariff issues.
- Expecting a very good soybean and corn harvest but it is still an unknown as to where and when it will move.

Question – With regard to the recent changes in OT-5 authority requirements, how is the extra information making the parties more efficient? Representatives answered that extra information allows better tracking and to avoid carrying empties, as well as helping with congestion.

Rail Equipment Overview - John Glynn

There are approximately 186 M covered hopper cars in the North American fleet (2017), of which about 67 M are 4750s. 59% of cars are less than 26 years old, and 25% have less than 10 years of service. Railroads have increased their level of ownership. Demand is expected to decrease. There are strong orders of covered hoppers. Scrapping picked up in 2017 and continued in 2018. The 56-foot car is the new standard, four feet shorter than older cars. On the horizon is the short footprint car – a 5200 cubic foot car with longitudinal gates. Canadian fleets are slightly larger.

Closing Remarks

Board Vice Chairman Deb Miller thanked the planning staff, Sharon, Doug, Mark, and Erica, and the meeting was adjourned by NGCC Chair Sharon Clark.

**NATIONAL GRAIN CAR COUNCIL
PUBLIC ATTENDANCE LIST 2018**

FIRST	LAST	TITLE	COMPANY
Tom	Wapp	Portfolio Mgr	POET Grain
Chris	Watson	Analyst	POET Grain
Eric	Mahaney	Manager	CGS
Mitch	Clementson	Market Manager	TCBW
Dave	Long	VP Marketing & Sales	TCBW
Lindsey	Fisher	Market Mgr	CN
DAN	SCHUETH	OPS Planning Mgr. man ager	KCS
RAUL	MOALES	MRKTING AND SALES	KCS
Roger	Fray	Agwest Grain advisors	
Rose	Reese	ATP - WABTEC - VP/GM	THE ATP/Wabtec
Kent	Whittaker	Sales Director	Wabtec/ATP
AL	Lullman	VP SALES	STRATO INC
Greg	Evans	Regional Sales	Strato, Inc.
Mark	Hafliger	President	AGMARK LLC
Kelsey	Dodd	Merchandiser	Agrex, Inc.
Vivian	Weng	Auxiliary Analyst	Agrex, Inc.
Ron	DeBouch	CMD	Landus COOP
JOSEPH	GUNLEY	DIR GRN MKTING	WESTERN MILLING
Shaun	Meiners	Dir - Transportation	Lansing Trade Group
Terry	Finan	VP - Leasing	SMBC Rail
John	Blau	Business Development Manager	Livestock Nutrition Center
Joe	Saito	Merchandising Mgr	Arizona Grain
Aaron	Reid	Senior Vice President	J.P. Heiskell
Tom	Bright	Dir - Grain Merchandising	Astegra Cooperative
Ted	Schultz	C.O.O.	Team Marketing Alliance
LUKE	JONES	CORP. ACCT. MGR	GATX
CHET	GREINER	The Stewart Co. Sr. Mgr.	The Steiner Co.
Ross	Edwards	VP Transportation	GAVILON
Joe	Griffith	S. U. P	Bartlett Grain Co.
Bob	Keller	Dir Fedgrains	BNSF Railway
BRADY	BRYAN	PRESIDENT & CEO	AMFLOKOR LLC
Anne	Erickson	General Director of Products	BNSF
MIKE	VAUPES	MERCH MANAGER	ADM
Tyler	Scifers	Merchandiser	Grain Craft
Kory	Tanner	Regional Manager	West Plains LLC
Darin	Hanson	VP	West Plains LLC
Dustin	BURNETT	ABTEGRA COOP RAILMANAGER	ABTEGRA COOP
Michael	Carmichael	Regional Manager	West Plains.
Ryan	Pellett	CEO	J.D. Heiskell
Dave	Geraci	VP GWI - CENTRAL REGION	GWI

**NATIONAL GRAIN CAR COUNCIL
PUBLIC ATTENDANCE LIST 2018**

FIRST	LAST	TITLE	COMPANY
Tim	SCHITTER	VP SALES & GROUP MANAGER	THE GREENBRIER COMPANIES
Tony	Germain	VP Regional Sales	The Greenbrier COS
Randy	Gordon	President	National Grain Feed Assn
Sam	Seahus	Group VP Agricultural Products	BNSF
Mike	Gonzales	Director - Wheat	BNSF
Hugh	PARKER	ST. DIR RISK MGMT	INGREDION
Mike	KEASLING	VP MARKETING	CAI RAIL
Francisco	Belden	Comodities Director	RAGASA
MARILYN	RAVELO	Director	AMERINTEER USL, LLC
Miguel	Davalos	Commercial Director	Adelbury Grain
JS	Sullivan	Dir m&S	Union Pacific RR
Brad	Livaghen	VP - Agriculture	Union Pacific
Mike	Brainard	UP Dir Grain	UPRR
Beau	Hepner	General Manager	Roy - Carroll County Grain Growers
Bill	Arnold	Regional Manager	Louis Drys for
Alan	Koenig	Chief Supply Chain Officer	GRAIN CRAFT
Shane	Berrett	Director - Transportation	CAVILON
Tiffany	Bickham	Market Intelligence Analyst	Trinity Rail
Don	Anderson	Manager, Market Intelligence	Trinity Rail
DARREN	Sowaty	DIRECTOR SALES BUSINESS DEVELOPMENT	CRADOCK
Gary	Kearby	VP Sales	Wells Fargo Rail
Kevin	Bahline	Dir. Rail Marketing	RESIDCO
Anthony	Fletcher	Manager of Transportation	CGB Enterprises
David	Fuchs	V-PRES	Wheeler Brothers Grain
Ross	Trentadue	Merchant	ZEN-NOH Grain
Adam	Sparger	Economist	USDA
Troy	Rigel	Senior Grain Merchandiser	Chisholm Trail Terminal
Jeff	Griffin	VP Rail Leasing	Stonebriar Commercial Finance
Barbara	Haertling	BNSF General Director Ag	BNSF Railway
Robert	Hogan	VP - Sales & Marketing	PNC Rail
Joe	Fiereck	Log. Mgr.	RIVERHEAD LLC
Robert	Peter son	president	TEGMA
Erica	Nanancio	Secretary / Treasurer	TEGMA
JOSE	ARTIGAS	ATLCC DIR.	ATLCC



National Grain Car Council

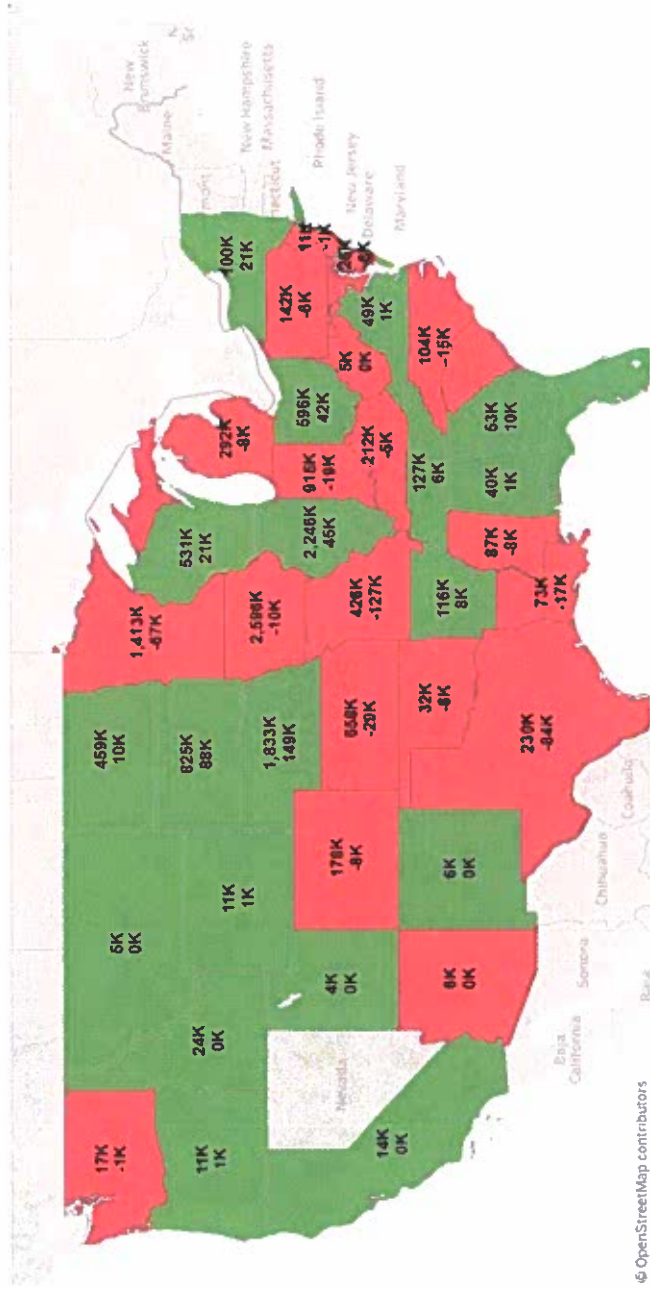


September 13, 2018



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US Corn Production 2018 vs 2017



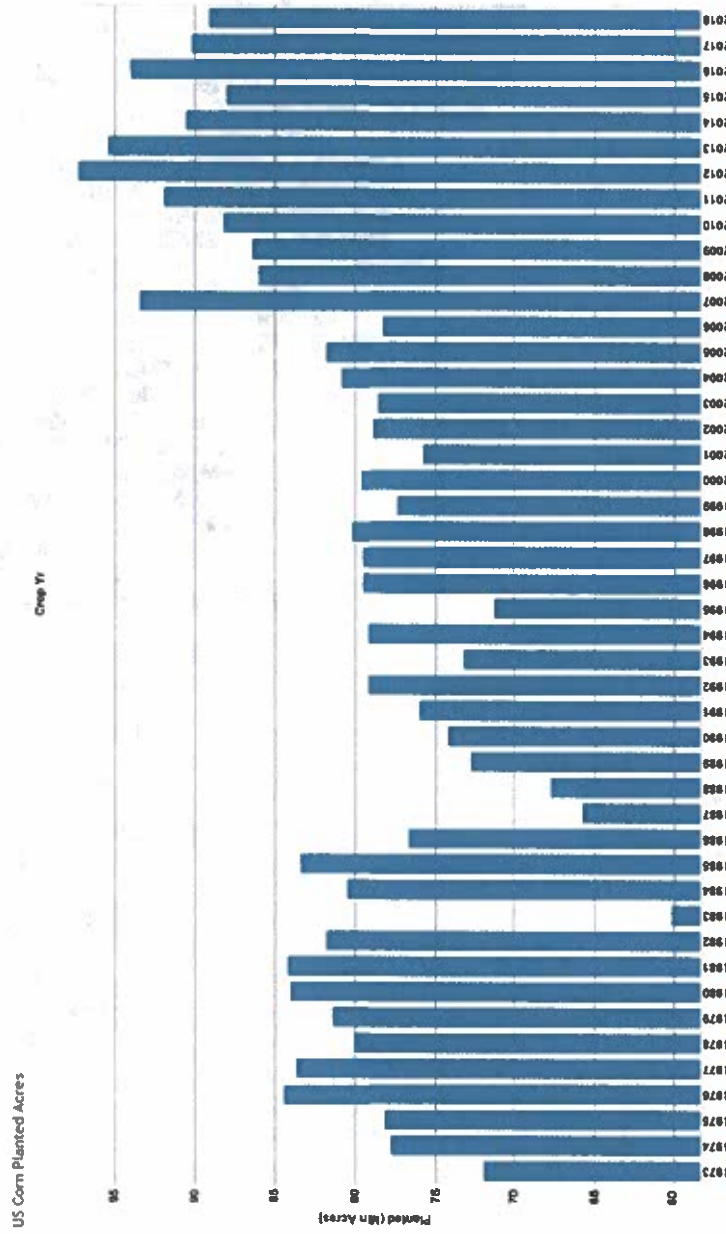
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Data = 2018 over difference from 2017

2 NGCC September 13, 2018



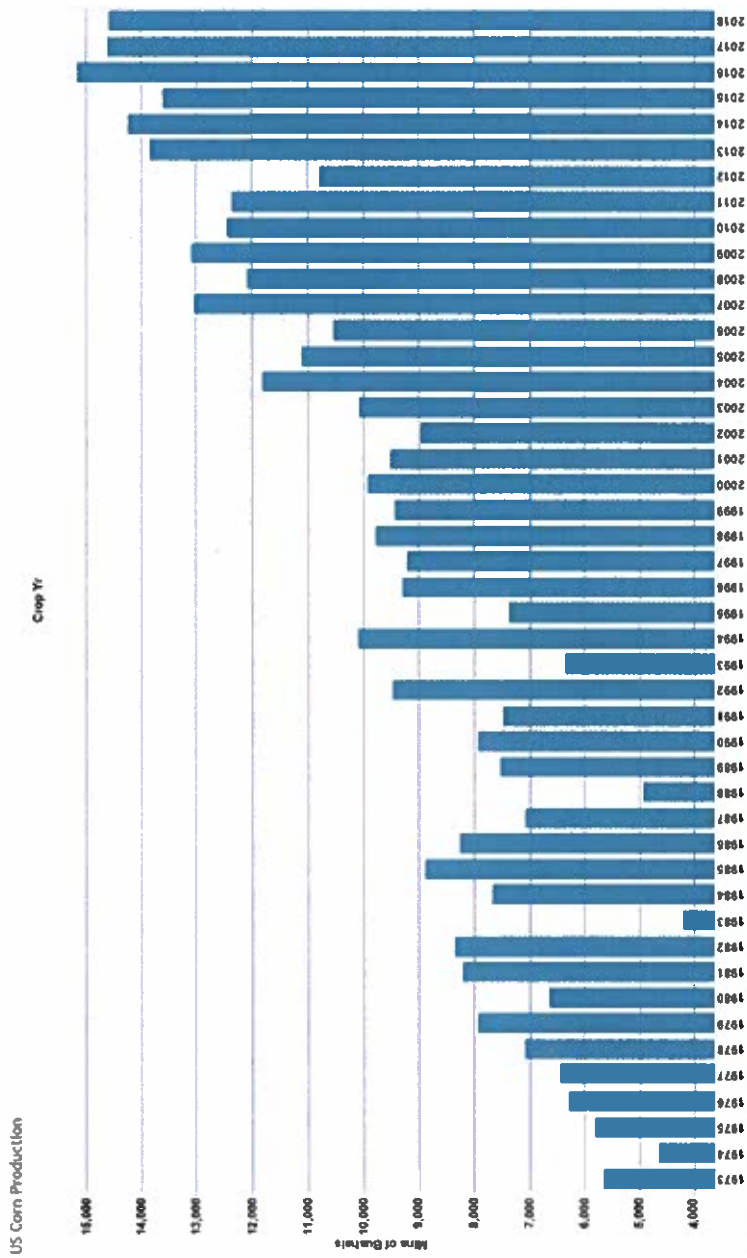
US Corn Planted Acres



NGCC September 13, 2018

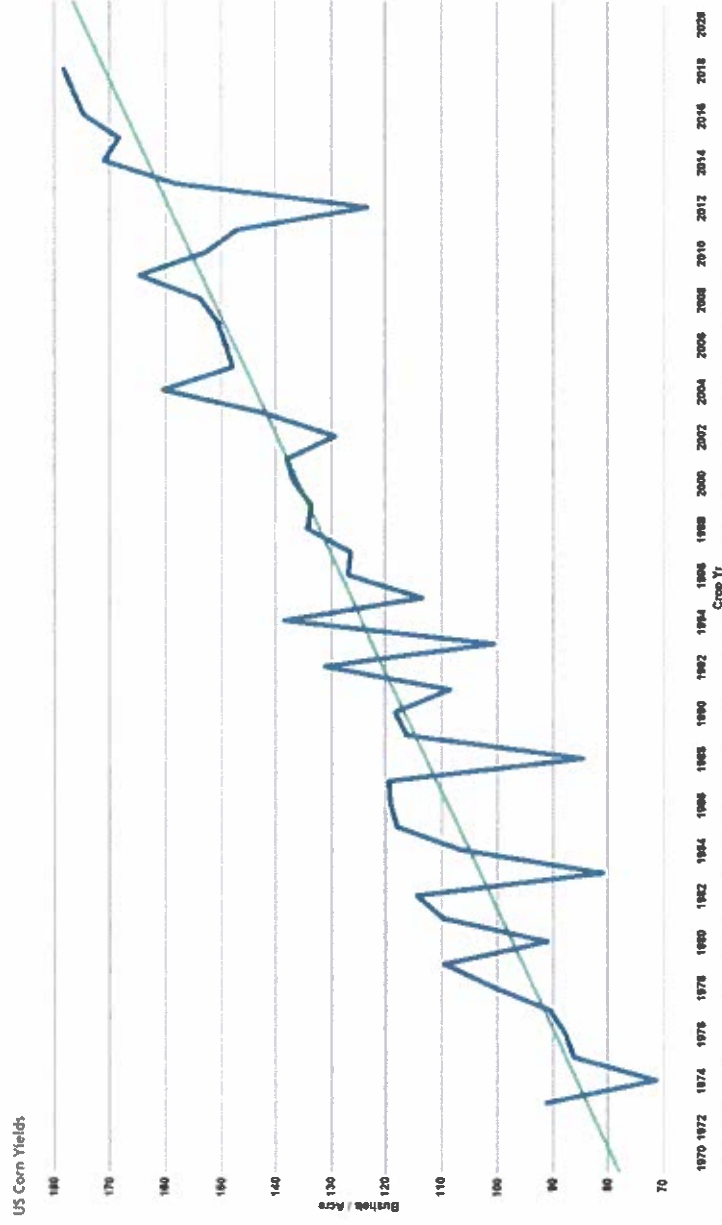


US Corn Production



NGCC September 13, 2018

US Corn Yields

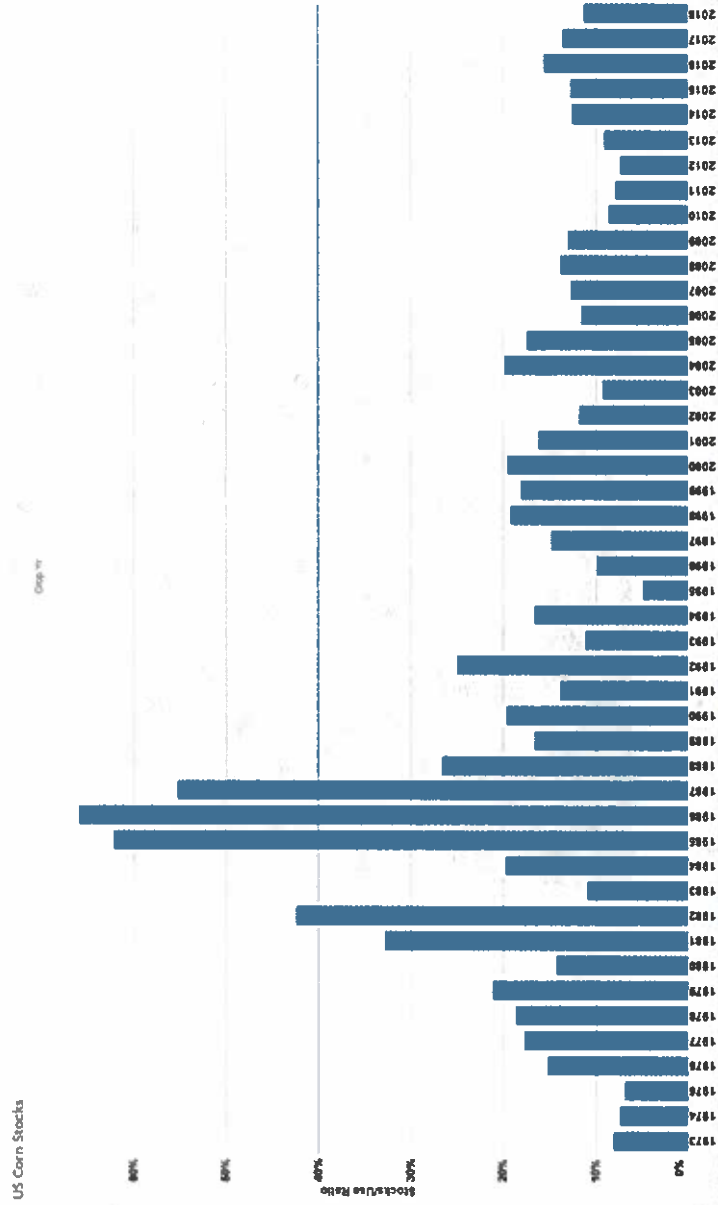


US Corn Supply & Demand

US Corn Situation

	2016	2017	2018
Planted (Mln Acres)	94.0	90.2	89.1
Harvested	86.7	82.7	81.8
Bushels / Acre	174.7	176.6	178.3
Carry-In(Mln Bu)	1,737	2,293	2,027
Production	15,148	14,604	14,586
Imports	57	40	50
Total Supply	16,942	16,937	16,663
Feed / Residual	5,472	5,450	5,525
Food/Industrial	6,884	7,060	7,105
Exports	2,293	2,400	2,350
Total Use	14,649	14,910	14,980
Carry-out	2,293	2,027	1,684

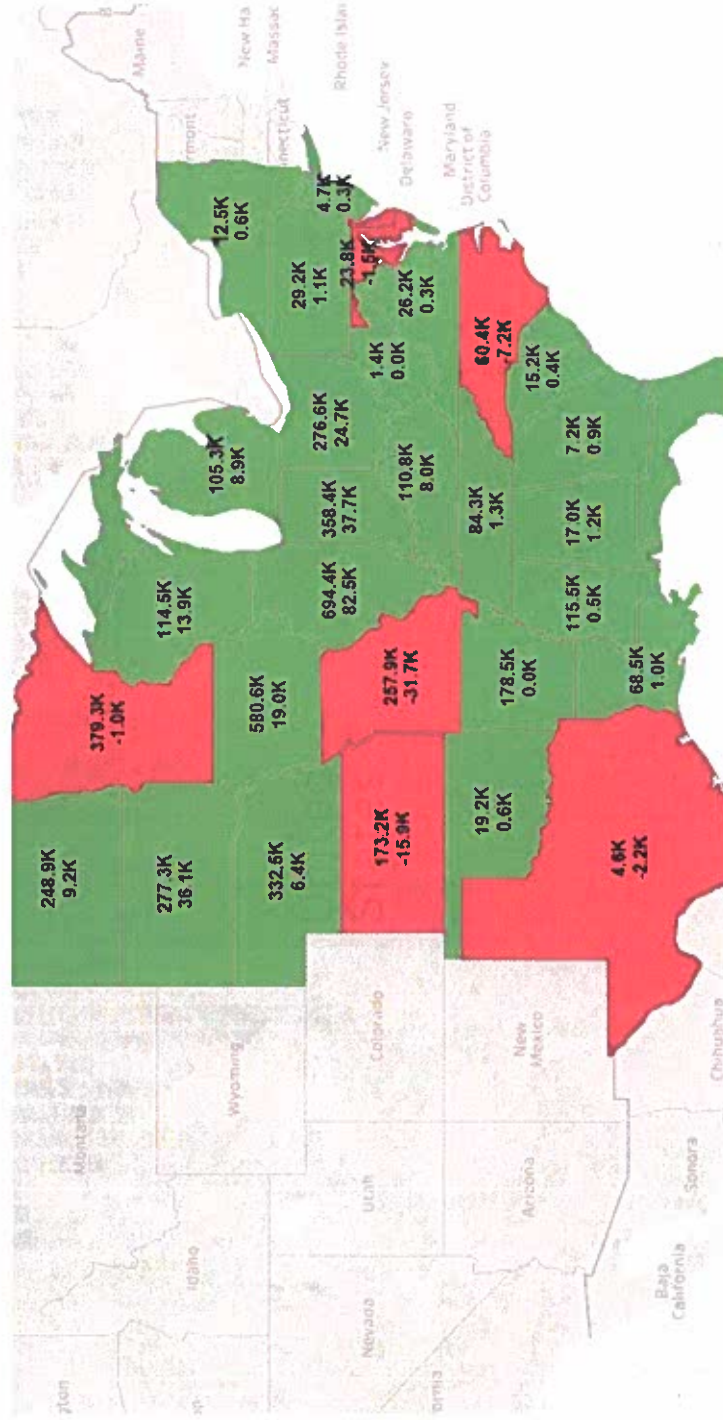
US Corn Ending Stocks as % of Demand



NGCC September 13, 2018



US Soybean Production 2018 vs 2017

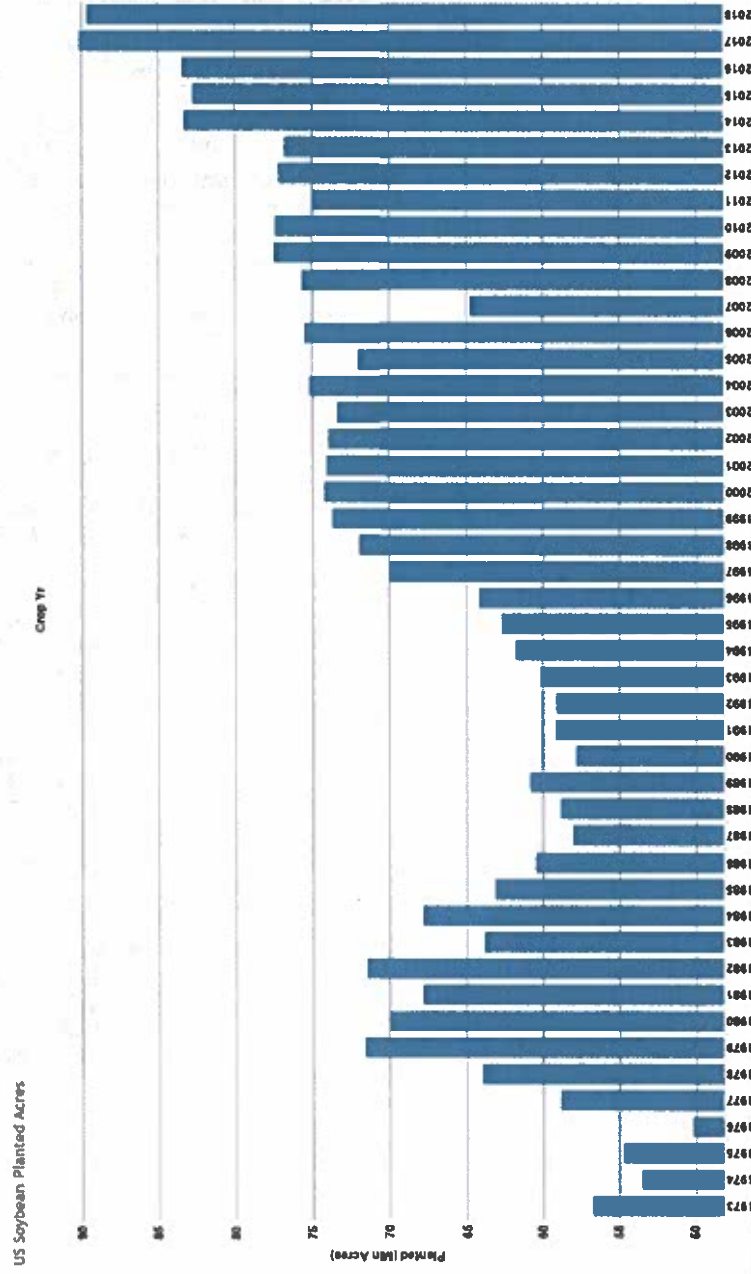


Data = 2018 over difference from 2017

NGCC September 13, 2018



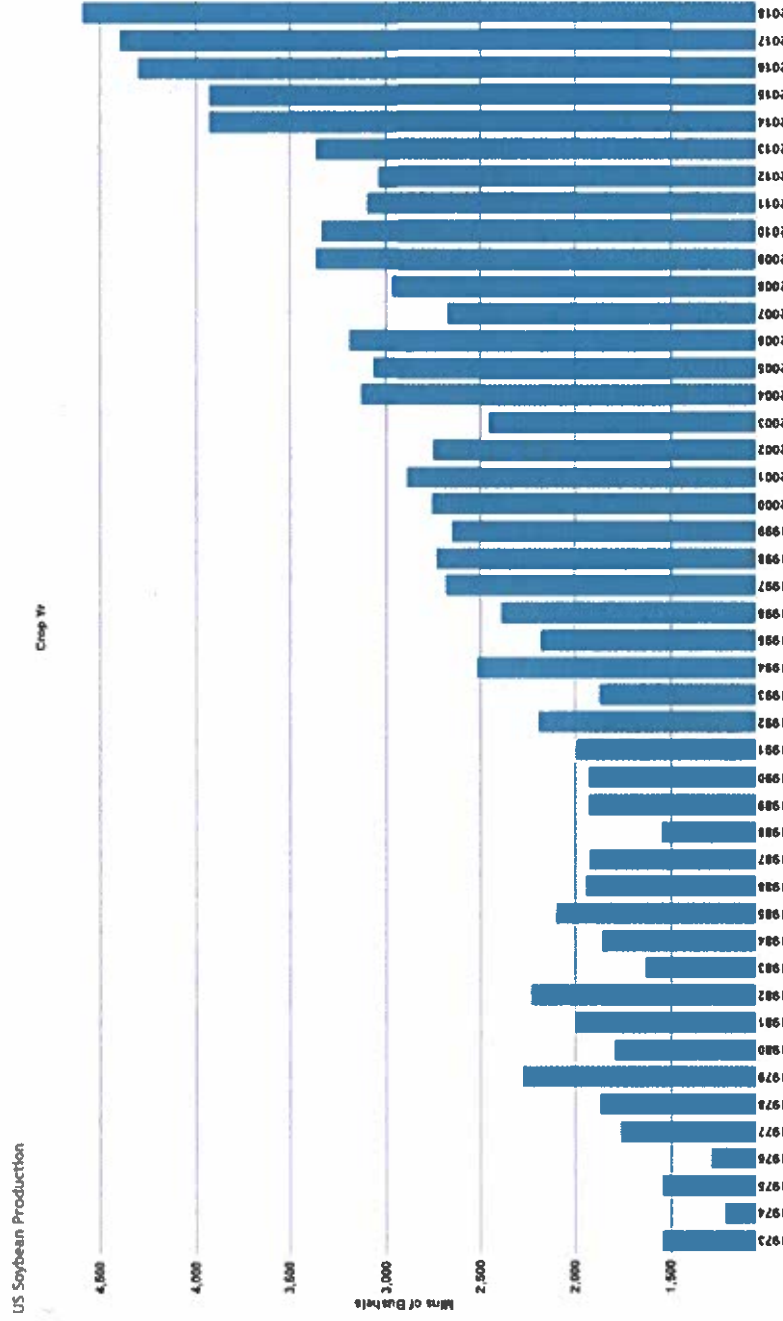
US Soybean Planted Acres



NGCC September 13, 2018

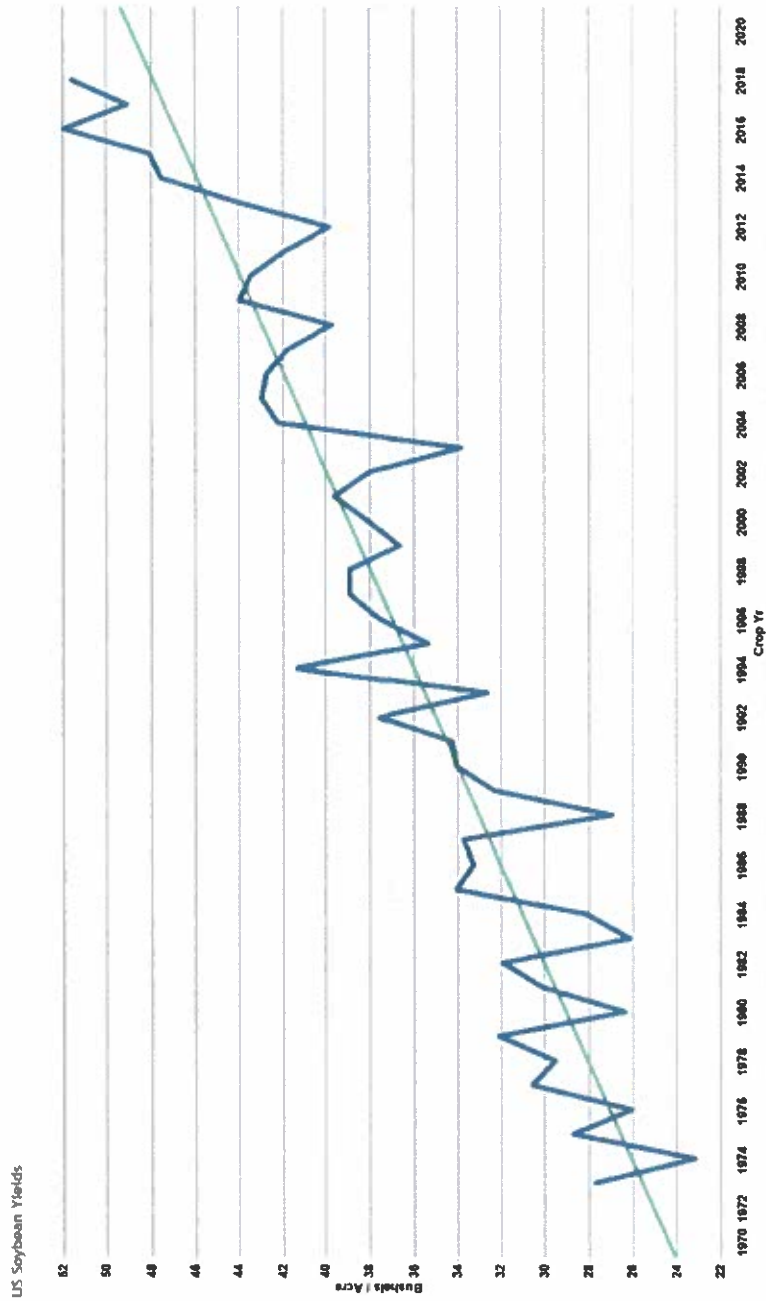


US Bean Production



NGCC September 13, 2018

US Bean Yields

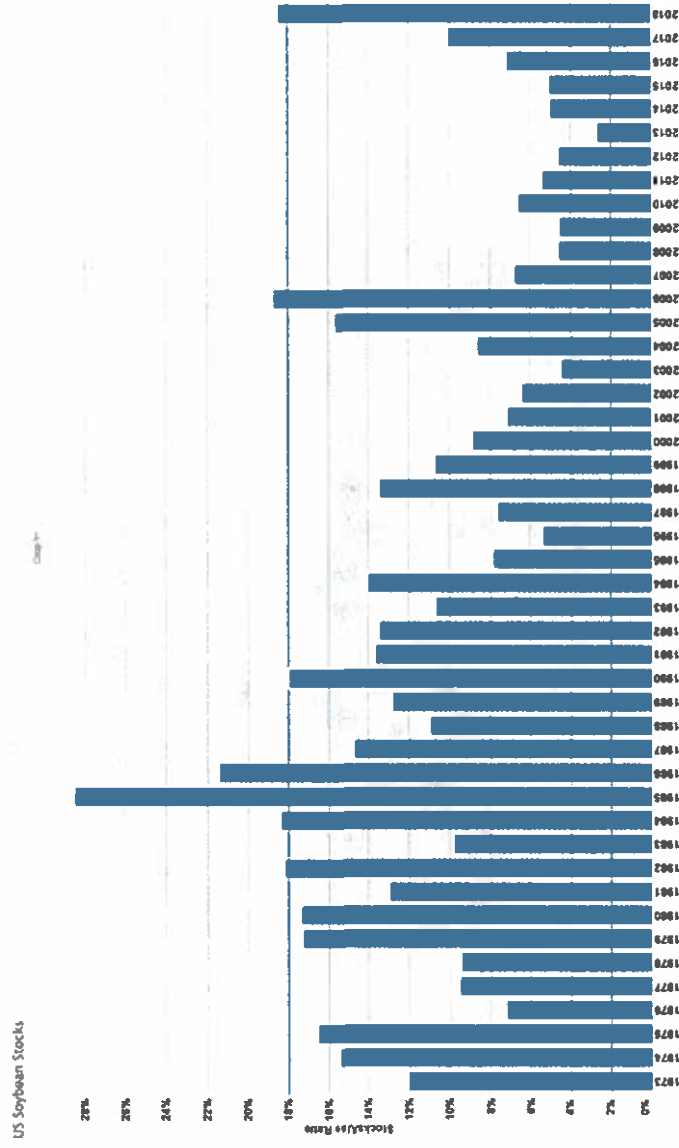


US Soybean Supply & Demand

US Soybean Situation

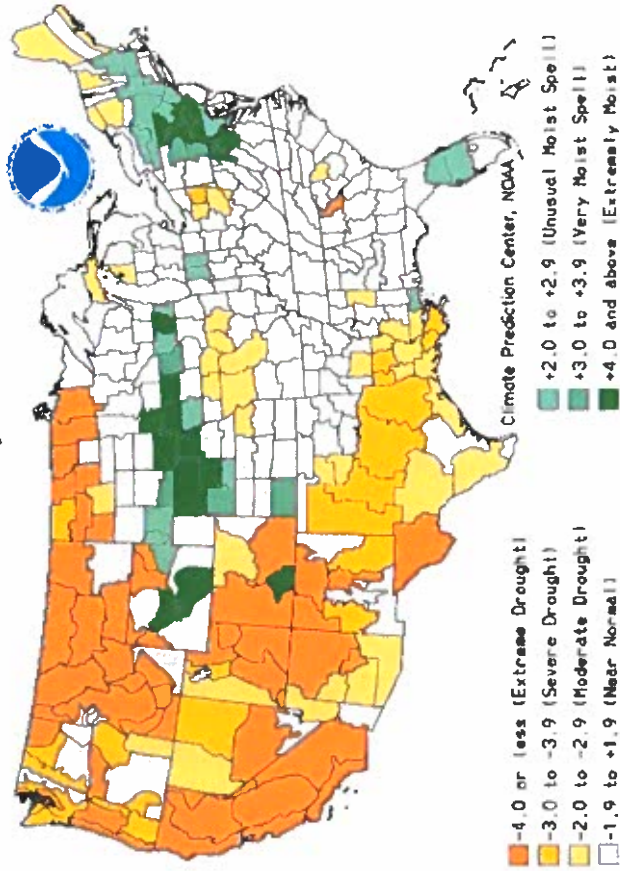
	2016	2017	2018
Planted (Min Acres)	83.4	90.1	89.6
Harvested	82.7	89.5	88.9
Busshels / Acre	51.9	49.1	51.6
Carry-In(Min Bu)	197	302	430
Production	4,296	4,392	4,586
Imports	22	22	25
Total Supply	4,515	4,716	5,041
Crush	1,901	2,040	2,060
Exports	2,174	2,110	2,060
Seed Res	139	136	136
Total Use	4,214	4,286	4,256
Carry-out	302	430	785

Soybean Ending Stocks as % of Demand

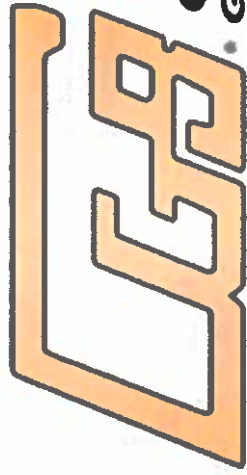


US Drought Severity Index

Drought Severity Index by Division
Weekly Value for Period Ending AUG 25, 2018
Long Term Palmer



National Grain Car Council



**CONSOLIDATED
GRAIN AND BARGE CO.**

Charlie Threlkeld
9/13/2018



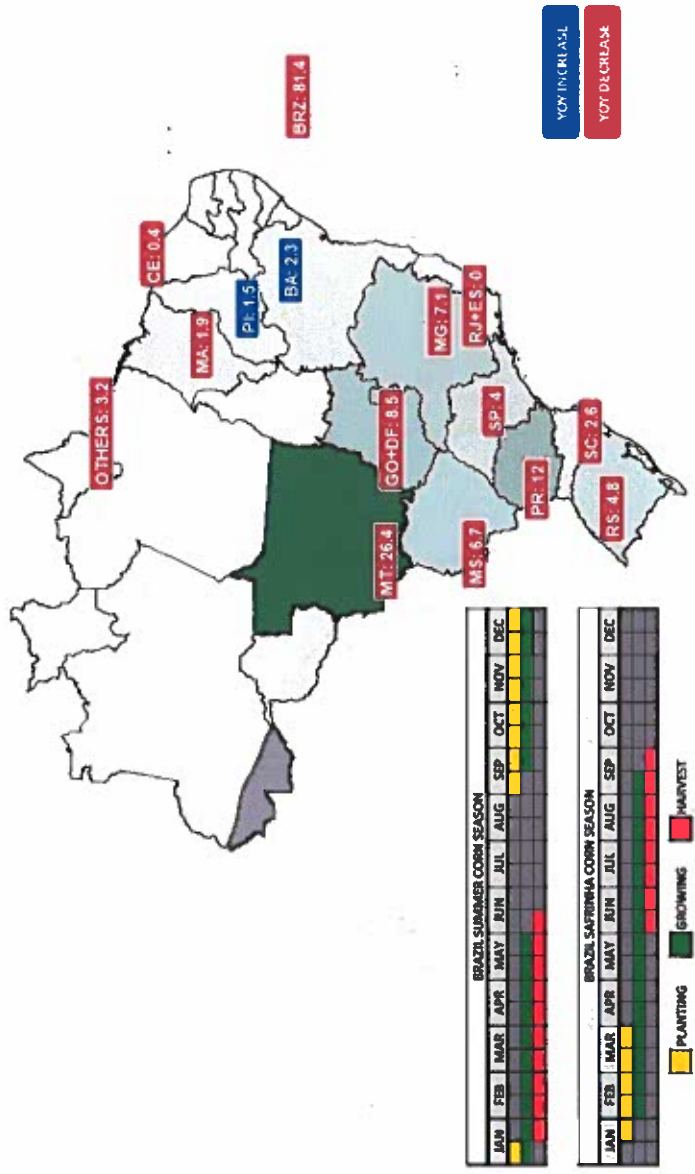


2018-19 Corn crop estimate unchanged at 81.4 mln mt.

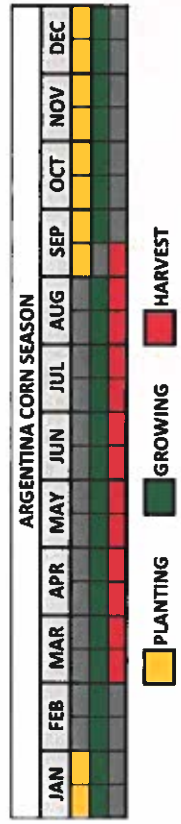
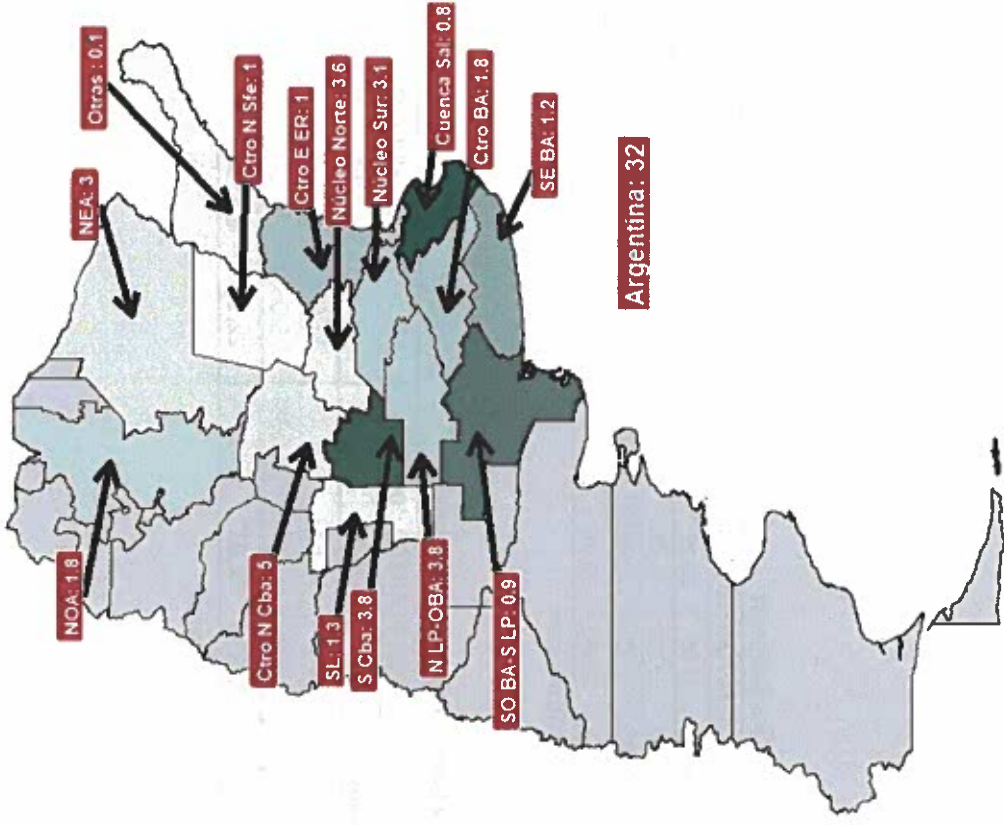
2018-19 BRAZILIAN CORN CROP ESTIMATE

STATE REGION	Harvesting (% of area)				VAR
	HIST	L Year	Prev Wk	This Wk	
PR	99%	99%	97%	99%	-0.0%
- 1st	100%	100%	100%	100%	0.0%
- 2nd	98%	99%	97%	99%	0.0%
RS	100%	100%	100%	100%	0.0%
SC	100%	100%	100%	100%	0.0%
S	99%	99%	98%	99%	-0.0%
MG	99%	100%	100%	100%	0.0%
- 1st	100%	100%	100%	100%	0.0%
- 2nd	96%	100%	100%	100%	0.0%
SP	99%	100%	100%	100%	0.0%
- 1st	100%	100%	100%	100%	0.0%
- 2nd	97%	100%	100%	100%	0.0%
RJ+ES	100%	100%	100%	100%	0.0%
SE	99%	100%	100%	100%	0.0%
MT	100%	100%	100%	100%	0.0%
- 1st	100%	100%	100%	100%	0.0%
- 2nd	100%	100%	100%	100%	0.0%
MS	99%	100%	98%	100%	0.0%
- 1st	100%	100%	100%	100%	0.0%
- 2nd	99%	100%	98%	100%	0.0%
GO+DF	100%	100%	100%	100%	0.0%
- 1st	100%	100%	100%	100%	0.0%
- 2nd	100%	100%	100%	100%	0.0%
CW	100%	100%	100%	100%	0.0%
N/NE	94%	95%	88%	95%	0.4%
- 1st	100%	100%	100%	100%	0.0%
- 2nd	97%	98%	96%	98%	0.1%
BRZ	98%	99%	97%	99%	0.0%

BRAZIL CORN PRODUCTION: 18/19



2018-19 Corn crop estimate: unchanged at 32 mln mt. Harvesting is over.





2018-19 SAM Corn crop estimate: unchanged at 113.4 mln mt, huge reduction from initial estimate.

2018-19 SAM CORN CROP FORECAST

UPDATE: 14-Sep

STATE	AREA PLANTED ('000 ha)			AREA HARVESTED ('000 ha)			YIELD (kg/ha)			CROP ('000 mt)			VAR K tons	
	16-17	17-18	18-19	16-17	17-18	18-19	16-17	17-18	18-19	16-17	17-18	18-19		VAR
Brazil	15,923	17,592	16,637	15,923	17,592	16,637	4,178	5,562	4,890	-12.1%	66,531	97,843	81,355	-16,488
Argentina	3,850	5,100	5,400	3,710	4,866	5,150	8,122	8,015	6,214	-22.5%	30,135	39,000	32,000	-7,000
Total/Avg	19,773	22,692	22,037	19,633	22,458	21,786	4,924	6,093	5,203	-14.6%	96,666	136,843	113,355	-23,488

Source: Conab, ACA, ZGC research

2018-19 SAM CORN CROP FORECAST

UPDATE: 14-Sep

STATE REGION	AREA PLANTED ('000 ha)			AREA HARVESTED ('000 ha)			YIELD (kg/ha)			CROP ('000 mt)			VAR K tons
	Initial	Current	VAR	Initial	Current	VAR	Initial	Current	VAR	Initial	Current	VAR	
Brazil	17,039	16,637	-2.4%	17,039	16,637	-2.4%	5,282	4,890	-7.4%	90,000	81,355	-9.6%	-8,645
Argentina	5,330	5,400	1.3%	5,063	5,150	1.7%	8,098	6,214	-23.3%	41,000	32,000	-22.0%	-9,000
Total/Avg	22,369	22,037	-1.5%	22,102	21,786	-1.4%	5,927	5,203	-12.2%	131,000	113,355	-13.5%	-17,645

Source: ACA/ZGC research



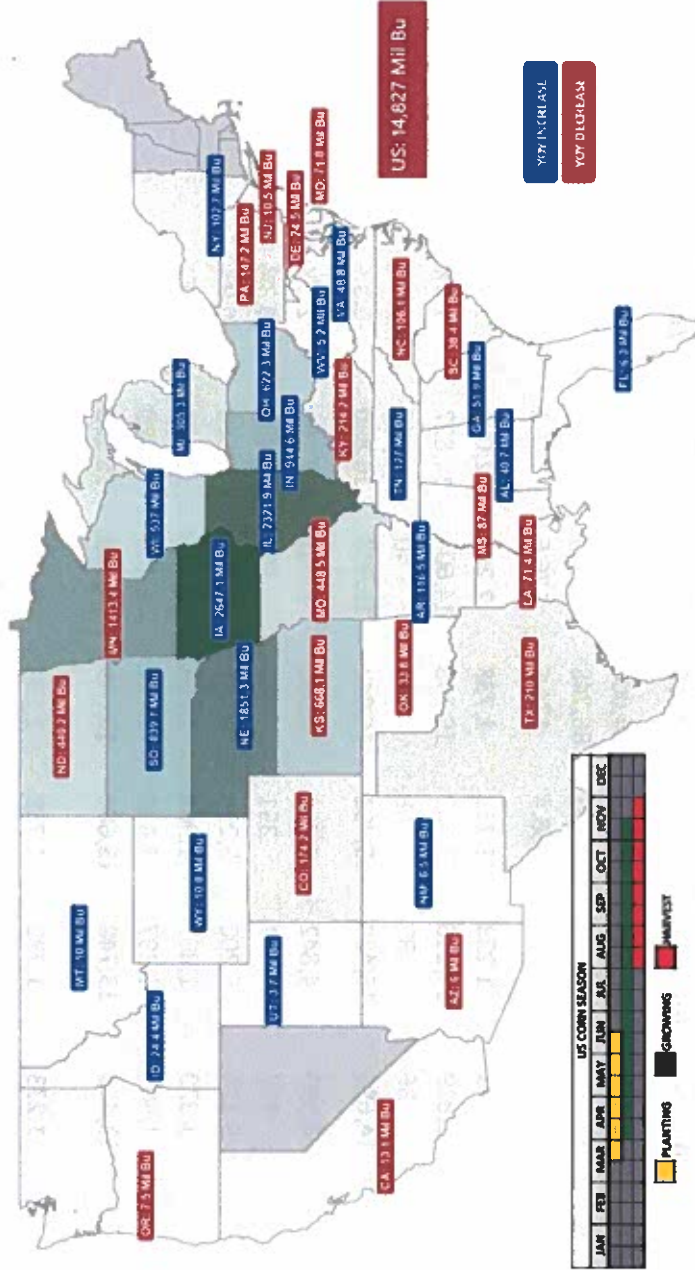


18/19 Corn Crop: following USDA at 14,827 million bushels. Yield record at 181.3 bushels/acre.

2018-19 US CORN CROP ESTIMATE

STATE REGION	HIST	Harvesting (% of area)			VAR
		Last year	Prev Week	This Week	
MIN	0%	0%	0%	0%	0.0%
SD	2%	0%	0%	0%	0.0%
WI	0%	0%	0%	0%	0.0%
ND	1%	0%	0%	0%	0.0%
MI	1%	3%	0%	3%	0.0%
NORTH	1%	0%	0%	0%	0.0%
IA	2%	1%	0%	1%	0.0%
IL	8%	5%	4%	7%	2.0%
IN	6%	5%	2%	4%	-1.0%
MO	22%	21%	12%	22%	1.0%
CENTRAL	6%	5%	3%	6%	1.0%
MS	90%	91%	74%	91%	0.0%
AR	85%	78%	51%	72%	-6.0%
LA	98%	99%	98%	99%	0.0%
SOUTH	90%	89%	71%	85%	-4.0%
KY	33%	29%	24%	36%	7.0%
TN	45%	46%	23%	37%	-9.0%
Other SE	85%	88%	77%	91%	3.0%
SOUTHEAST	52%	51%	40%	54%	3.0%
OH	2%	1%	0%	1%	0.0%
PA	9%	4%	1%	2%	-2.0%
NC	72%	68%	43%	59%	-9.0%
Other E	19%	16%	7%	11%	-5.0%
EAST	16%	14%	7%	11%	-3.0%
NE	3%	2%	1%	2%	0.0%
KS	21%	19%	9%	12%	-7.0%
TX	64%	67%	63%	73%	6.0%
CO	1%	2%	0%	2%	0.0%
Other W	20%	16%	7%	15%	-1.0%
WEST	15%	15%	10%	13%	-2.0%
US	11%	10%	7%	10%	0.0%

US CORN PRODUCTION: 18/19





Despite by yield, corn carry-out projected to reduce.

US CORN S&D - SEPTEMBER-AUGUST USDA (million bushels)

INPUTS	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	VAR
Planted area (k acres)	95,365	90,597	88,019	94,004	90,167	89,128	-1.2%
Harvested area (k acres)	87,451	83,136	80,753	86,748	82,703	81,770	-1.1%
Yield (bushel/acre)	158.1	171.0	168.4	174.6	176.6	181.3	2.7%
Beginning Stocks	821	1,233	1,732	1,738	2,294	2,003	-12.7%
Production	13,829	14,216	13,602	15,148	14,604	14,827	1.5%
Imports	36	32	68	57	40	50	25.0%
Total Supply	14,686	15,480	15,402	16,943	16,938	16,880	-0.3%
Feed	4,590	4,842	4,764	4,990	5,061	5,185	2.5%
Residual	412	442	351	482	389	390	0.3%
Ethanol	5,124	5,200	5,224	5,432	5,600	5,650	0.9%
Exports	1,920	1,867	1,901	2,293	2,425	2,400	-1.0%
Seed/losses	1,407	1,397	1,424	1,451	1,460	1,480	1.4%
Total Demand	13,453	13,748	13,664	14,649	14,935	15,105	1.1%
Ending Stoks	1,233	1,732	1,738	2,294	2,003	1,775	-11.4%
Stock (% of demand)	9.2%	12.6%	12.7%	15.7%	13.4%	11.8%	-1.7%





US All Wheat Balance Sheet – US stocks projected down 15% YOY.

US ALL WHEAT S&D - JUNE-MAY (million bushels)						
INPUTS	2014-15	2015-16	2016-17	2017-18	2018-19	VAR
Planted area (k acres)	56,841	54,999	50,119	46,012	47,821	3.9%
Harvested area (k acres)	46,385	47,318	43,850	37,586	39,600	5.4%
Yield (bu/acre)	43.7	43.6	52.7	46.3	47.4	2.3%
Beginning Stocks	591	756	977	1,182	1,100	-6.9%
Production	2,026	2,062	2,309	1,741	1,876	7.8%
Imports	153	112	118	156	135	-13.5%
Total Supply	2,770	2,930	3,403	3,078	3,111	1.1%
Feed & Residual	113	150	157	136	142	4.4%
Food	958	957	949	897	944	5.2%
Seed	79	69	60	66	66	0.6%
Exports	864	777	1,055	879	1,025	16.6%
Total Demand	2,014	1,953	2,222	1,978	2,177	10.0%
Ending Stoks	756	977	1,182	1,100	934	-15.1%
Stock (% of demand)	37.5%	50.0%	53.2%	55.6%	42.9%	-12.7%





World Wheat Balance – Major exporter stocks projected down 22% YOY.

BIG 7 MAJOR EXPORTERS WHEAT S&D (000 MT)						
INPUTS	2014-15	2015-16	2016-17	2017-18	2018-19	VAR
Planted area (kha)	106,581	106,564	107,237	105,741	105,823	0.1%
Harvested area (kha)	102,350	103,455	104,700	102,331	102,496	0.2%
Yield (kg/ha)	3,547	3,539	3,724	3,718	3,678	-1.1%
Beginning Stocks	52,316	61,803	60,942	68,527	67,883	-0.9%
Production	363,007	366,138	389,882	380,426	376,957	-0.9%
Imports	11,233	11,498	9,686	10,851	10,359	-4.5%
Total Supply	426,555	439,439	460,510	459,804	455,200	-1.0%
Feed & Residual	83,144	88,900	90,695	94,851	91,865	-3.1%
Food	140,342	141,089	141,064	140,538	141,181	0.5%
Seed	2,162	1,865	1,638	1,796	1,807	0.6%
Exports	139,105	146,643	158,586	154,735	167,402	8.2%
Total Demand	364,753	378,497	391,983	391,920	402,255	2.6%
Ending Stoks	61,803	60,942	68,527	67,883	52,945	-22.0%
Stock (% of demand)	16.9%	16.1%	17.5%	17.3%	13.2%	-4.2%





World Wheat Balance – Major importer stocks increasing nearly 6%. All stock increases in China

BIG MAJOR 13 WHEAT IMPORTERS S&D (000 MT)

INPUTS	2014-15	2015-16	2016-17	2017-18	2018-19	VAR
Planted area (kha)	66,134	67,461	64,134	65,439	64,502	-1.4%
Harvested area (kha)	66,134	67,461	64,134	65,439	64,502	-1.4%
Yield (kg/ha)	3,747	3,656	3,752	3,906	3,985	2.0%
Beginning Stocks	104,393	113,296	136,450	143,952	162,992	13.2%
Production	247,819	246,624	240,617	255,575	257,042	0.6%
Imports	62,334	71,797	80,024	75,577	73,300	-3.0%
Total Supply	414,546	431,717	457,091	475,104	493,334	3.8%
Feed & Residual	29,805	27,554	34,620	31,417	33,990	8.2%
Food	263,630	262,715	274,540	276,654	282,410	2.1%
Seed	-	-	-	-	-	0.0%
Exports	7,815	4,998	3,979	4,041	4,255	5.3%
Total Demand	301,250	295,267	313,139	312,112	320,655	2.7%
Ending Stoks	113,296	136,450	143,952	162,992	172,679	5.9%
Stock (% of demand)	37.6%	46.2%	46.0%	52.2%	53.9%	1.6%





Major Exporter/Importer Balance Sheet Excluding China. Ending stocks decreasing nearly 14% YOY.

GLOBAL WHEAT S&D (000 MT) - EXCLUDING CHINA						
INPUTS	2014-15	2015-16	2016-17	2017-18	2018-19	VAR
Planted area (kha)	148,646	149,885	147,184	147,190	146,425	-0.5%
Harvested area (kha)	144,415	146,776	144,647	143,780	143,098	-0.5%
Yield (kg/ha)	3,356	3,288	3,468	3,521	3,536	0.4%
Beginning Stocks	91,435	98,994	100,350	101,430	104,056	2.6%
Production	484,618	482,572	501,654	506,231	505,999	-0.0%
Imports	71,641	79,819	85,300	82,428	79,159	-4.0%
Total Supply	647,693	661,385	687,304	690,089	689,215	-0.1%
Feed & Residual	96,949	105,954	108,815	112,768	108,855	-3.5%
Food	303,472	302,304	313,604	313,692	318,591	1.6%
Seed	2,162	1,865	1,638	1,796	1,807	0.6%
Exports	146,117	150,912	161,817	157,776	170,457	8.0%
Total Demand	548,700	561,035	585,874	586,032	599,710	2.3%
Ending Stoks	98,994	100,350	101,430	104,056	89,505	-14.0%
Stock (% of demand)	18.0%	17.9%	17.3%	17.8%	14.9%	-2.8%





Spot St. Louis Barge Freight

