

Fields of Uncertainty

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I. A Macro Look



China and the United States Are Talking?!



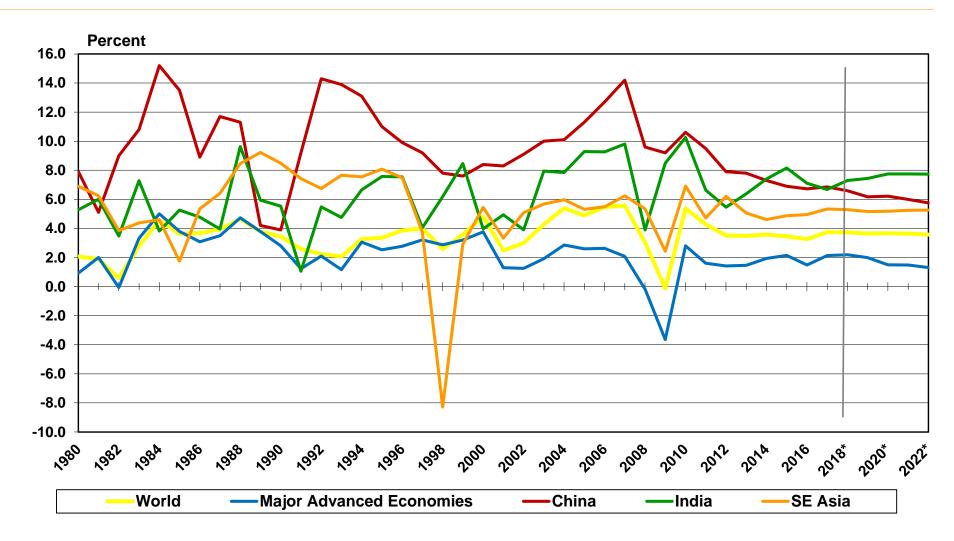
- Current State of Affairs
 - 90 day "cooling off" period ends March 1
 - It appears higher tariffs will be delayed while talks are ongoing.
 - China has purchased U.S. soybeans & has promised to purchase more—YTD: 2.6 MMT versus 24.3 MMT in 2017/18
 - U.S. agriculture remains the biggest loser
 - This will not be solved by March 1.
- U.S. soybeans have been hit the hardest.
 - U.S. soybeans have become more competitive in the world market
 - The supply chain now becomes more expensive and less efficient.
- Other U.S. agricultural products are subject to Chinese tariffs, e.g. wheat, hay, dairy
- U.S. believes they have a strong negotiating position against China.
 - "China has more to lose in a trade war than the U.S."
- Likewise, the Chinese perspective is they have the upper hand and they are settled in for the long haul.
- The issues surrounding intellectual property, copyright, trademark, following WTO rules etc. are being addressed—these issues are the root of longstanding many trade issues with China.



Global Economic Growth Has Been Dialed Back



Trade tensions, market volatility, pullback on QE by Central Banks & increasing rates are likely to slow economic growth further.



Weekly U.S. Dollar Index Expectations U.S. dollar to weaken in 2019, but...

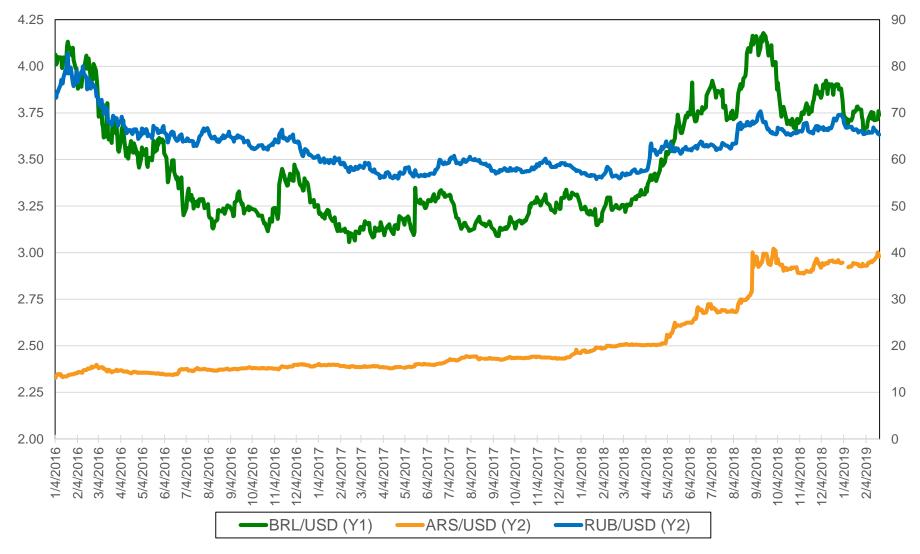




Major AG Export Competitor's Currencies Value vs. USD is Crucial



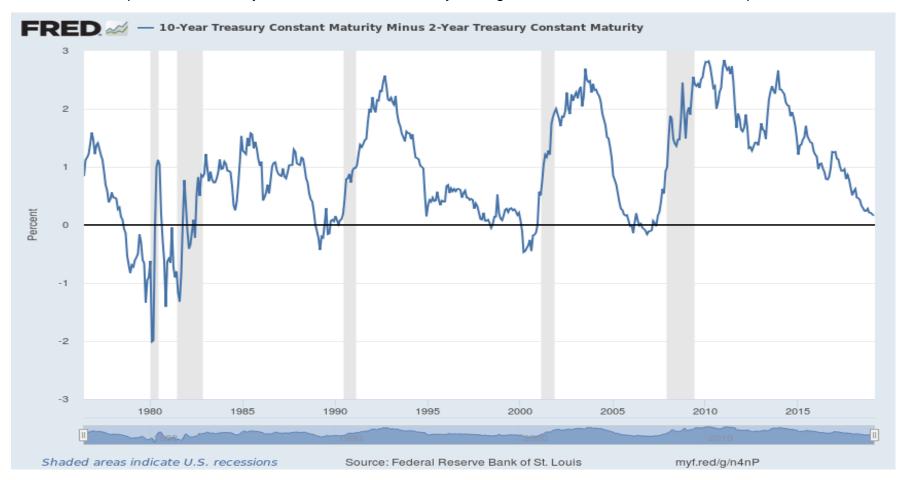
Depreciation against USD due to negative changes in their economies—not favorable to U.S. agricultural exports





Flattening Yield Curve is a Strong Indicator of Coming Recession

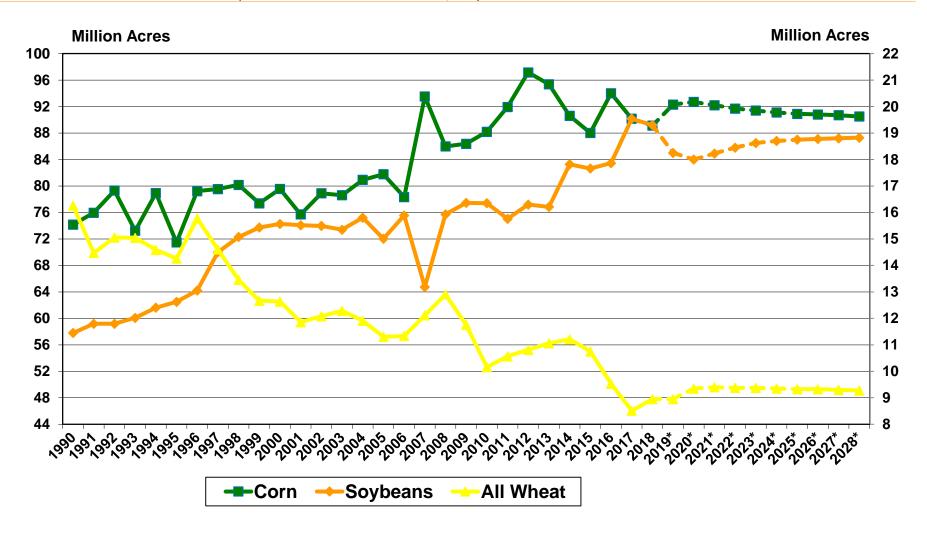
- In the past five recessions, the average time period between the yield curve inverting and the coming recession is 19.6 months. It has ranged between 10-33 months
- The current expansion is over 9 years old and is second only in length to the Mar 1991-Mar 2001 time period



Major U.S. Row Crop Planted Acres



First indication of 2019 U.S. Winter Wheat Plantings showed a 1.245 mln acre decline to 31.29 mln In Feb. estimates USDA is Corn planted acres @ 92.0 mln, soybeans @ 85.0 mln & wheat @ 47.0 mln

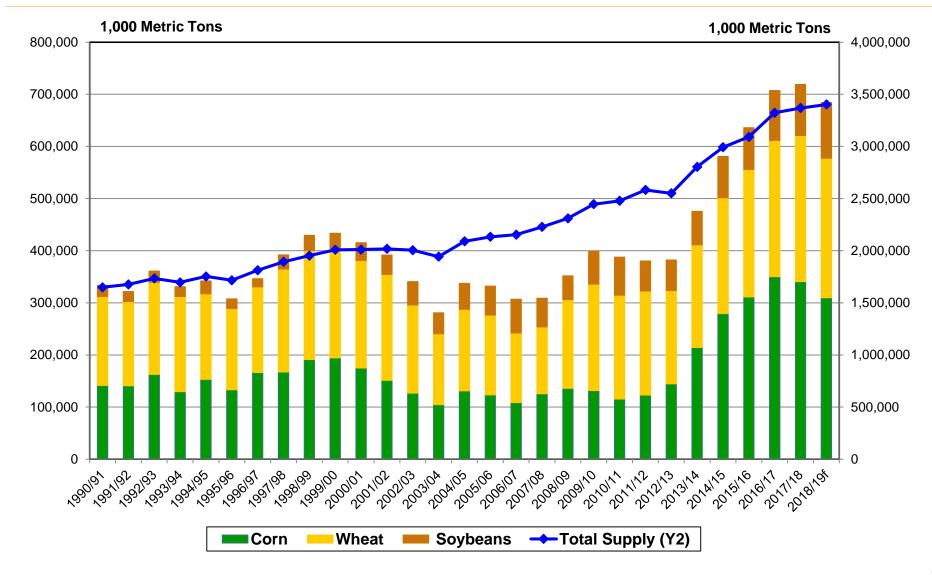


^{*} Rabobank projections Source: USDA, Economic Research Service, Rabobank 2019

Global Grain Supply (corn, soybeans and wheat) at Record Levels

Current projections indicate the third largest global stocks on record





Source: USDA/FAS, Rabobank 2019



II. Corn



Corn--Bulls and Bears



Bullish Factors

- Strong U.S. exports
- U.S. & global corn stocks & stocks-touse ratio declining
- Farmers are holding corn
- Growing livestock numbers
- Solid ethanol exports
- Funds adding to long corn position

Bearish Factors

- Little growth in demand side of balance sheet
- Farmers are holding corn—large stocks in country
- Basis levels remain wide—more than adequate available corn supplies
- Upward revision in Chinese corn stocks
- RFS remains flat & ethanol production declining in near term
- Flat to declining gasoline use

Swing Factors

- Argentine and Brazilian corn crop in 2019
- U.S. Dollar
- U.S. trade policy
- Profitability in domestic livestock sector
- Spread of African Swine Fever
- China export promises

U.S. Corn Balance Sheet

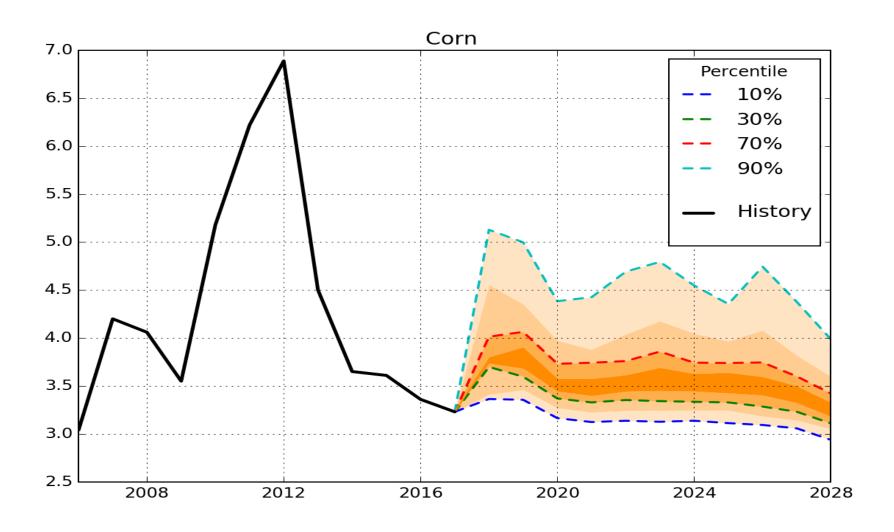




	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	USDA 2018/19*	Rabo 2019/20*
Planted Acres (mln)	88.2	91.9	97.3	95.4	90.6	88.0	94.0	90.2	89.1	92.3
Harvested Acres (mln)	81.4	84.0	87.4	87.5	83.1	80.8	86.7	82.7	81.7	84.8
Yield (bu./acre)	152.6	146.8	123.1	158.1	171.0	168.4	174.6	176.6	176.4	177.7
Supply										
Beginning Stocks (9/1)	1,709	1,127	989	819	1,232	1,731	1,737	2,293	2,141	1,778
Production	12,425	12,314	10,755	13,829	14,216	13,602	15,148	14,609	14,420	15,066
Imports	28	29	160	36	32	68	57	36	40	44
Total Supply	14,161	13,471	11,904	14,686	15,479	15,402	16,942	16,939	16,601	16,888
Disappearance										
Feed	4,770	4,512	4,309	5,001	5,280	5,114	5,470	5,304	5,375	5,683
Food, Seed & Industrial	6,434	6,424	6,044	6,532	6,601	6,648	6,885	7,056	7,040	6,917
Ethanol of Fuel	5,019	5,000	4,641	5,124	5,200	5,224	5,432	5,605	5,575	5,259
Exports	1,831	1,539	730	1,921	1,867	1,901	2,294	2,438	2,450	2,462
Total Disappearance	13,033	12,482	11,083	13,454	13,748	13,664	14,649	14,798	14,865	15,062
Ending Stocks	1,128	989	821	1,232	1,731	1,737	2,293	2,141	1,736	1,826
Stocks-to-Use Ratio (%)	8.5%	7.7%	7.2%	8.7%	12.6%	12.7%	15.7%	14.5%	11.7%	12.1%
Average Farm Price (\$/bu.)	\$5.18	\$6.22	\$6.89	\$4.46	\$3.70	\$3.61	\$3.36	\$3.36	\$3.60	\$3.60

National Average Farm Received Prices 70% probability that prices will be under \$4.00 per bushel





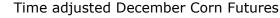
Source: Rabobank 2018

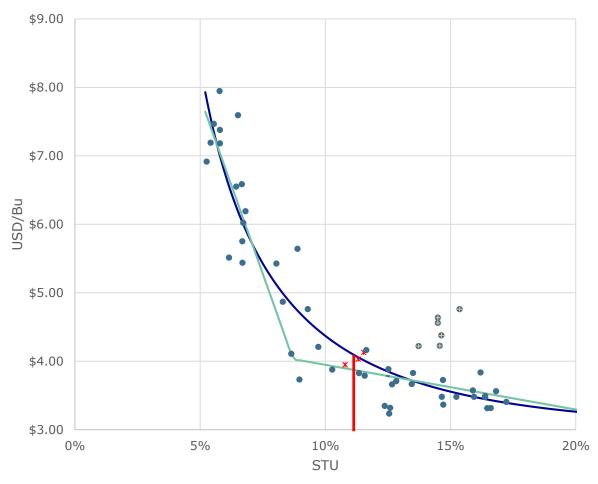
Corn Price Curve Shows Trade's Stock-to-Use Expectations CZ19 fairly trading based on the fundamentals



December 2019 futures (CZ19) trading just around \$4.00 per bushel which corresponds to approximately a 12% Stocks-to Use Ratio.

- Assuming planted corn acres of 92 million and a yield, 176.5 bushels per acre and flat demand results in a 10.6% stocksto-use ratio.
- Assuming the above, CZ19 should be trading around \$4.00 which is where the market it trading.
- With a carry market, that CZ19 @ \$4.00 will erode assuming normal weather.

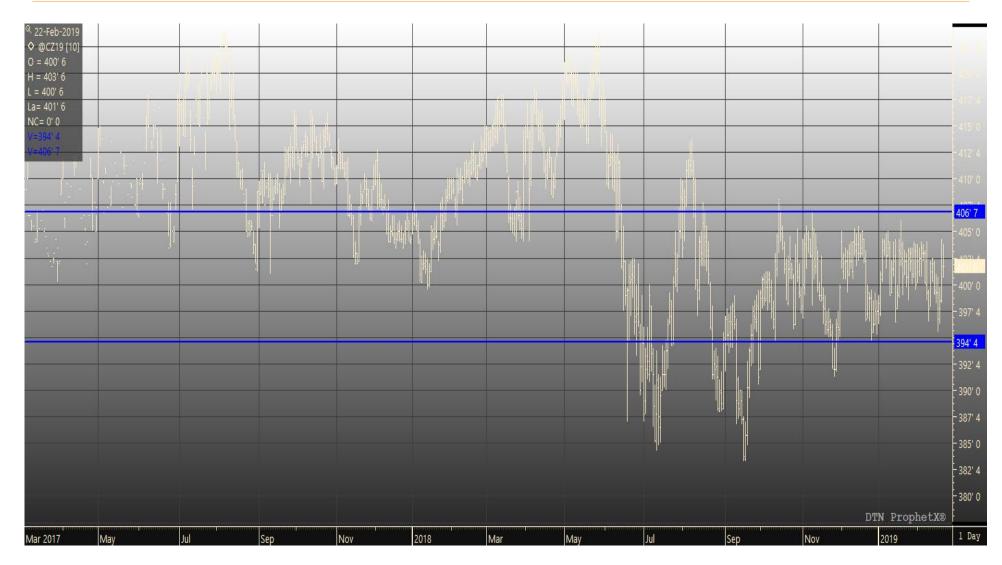




Source: Rabobank 2018



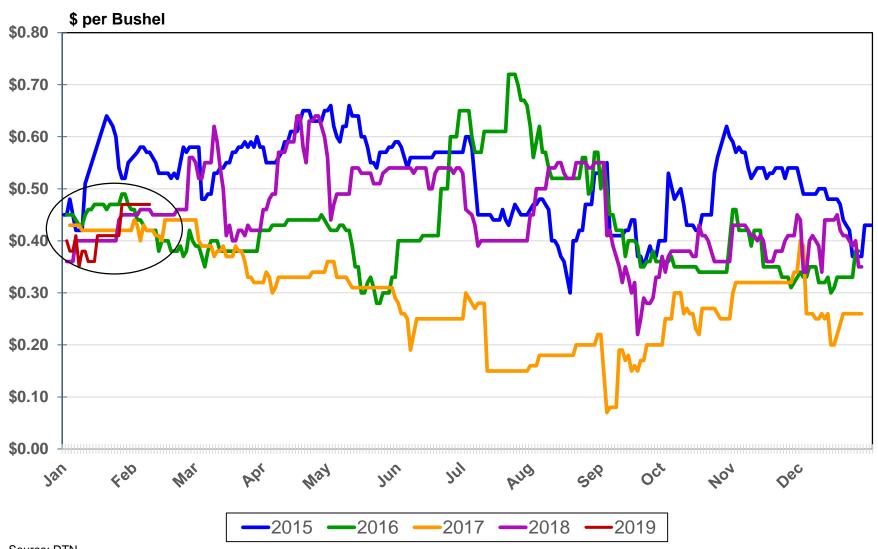
Dec Corn Futures (CZ19) is Range Bound



Gulf CIF Corn Basis

Pickup in U.S. exports have supported CIF values, but more volatile this year and going forward...basis is where the opportunities are going to be.

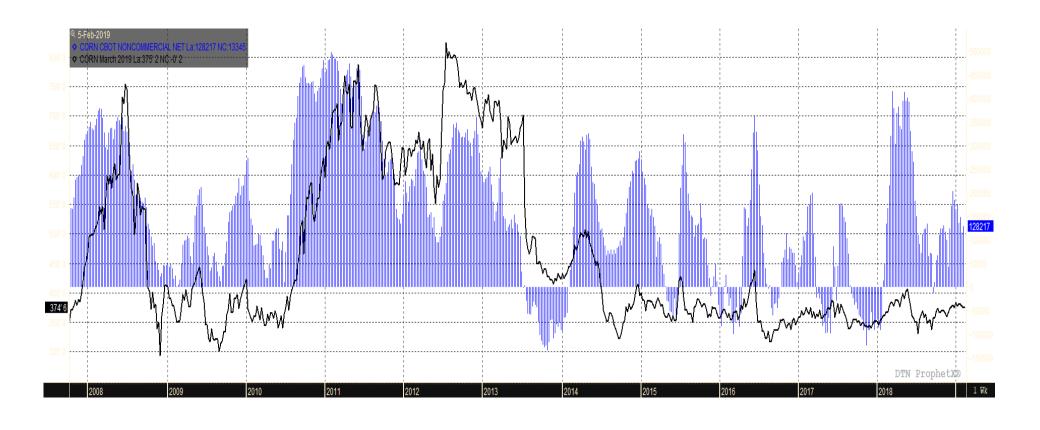




Source: DTN



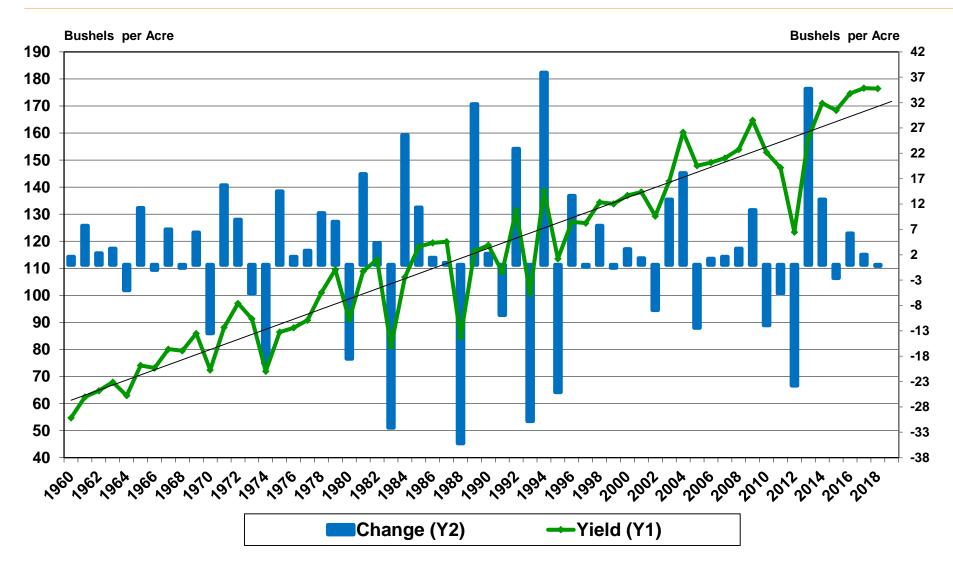
Funds Have Been Adding to Net Long Position



U.S. Corn Yield Most Persistent Trend in Agriculture



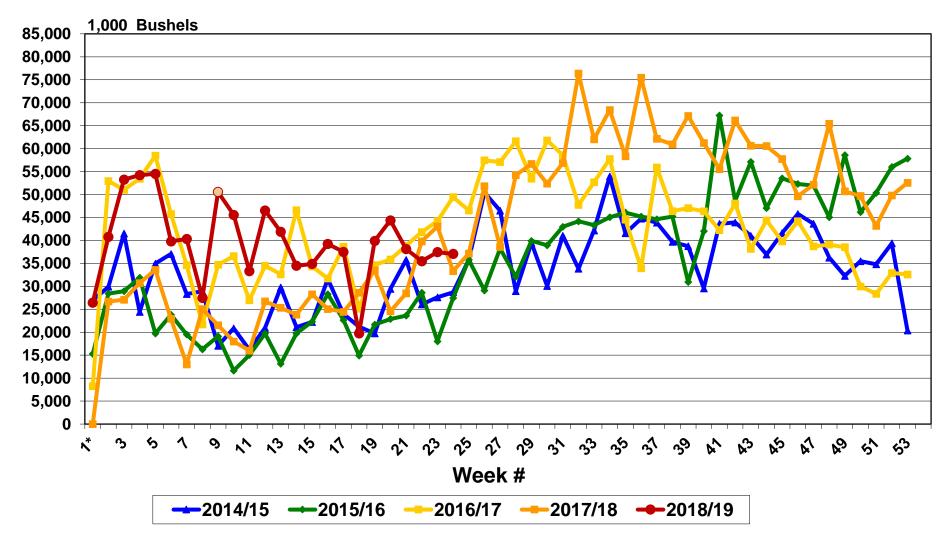
2019 trend yield (1960-2017) is 171.7bu./acre In 2019, will corn yield return to trend after five years of being above trend?



U.S. Corn Export Inspections





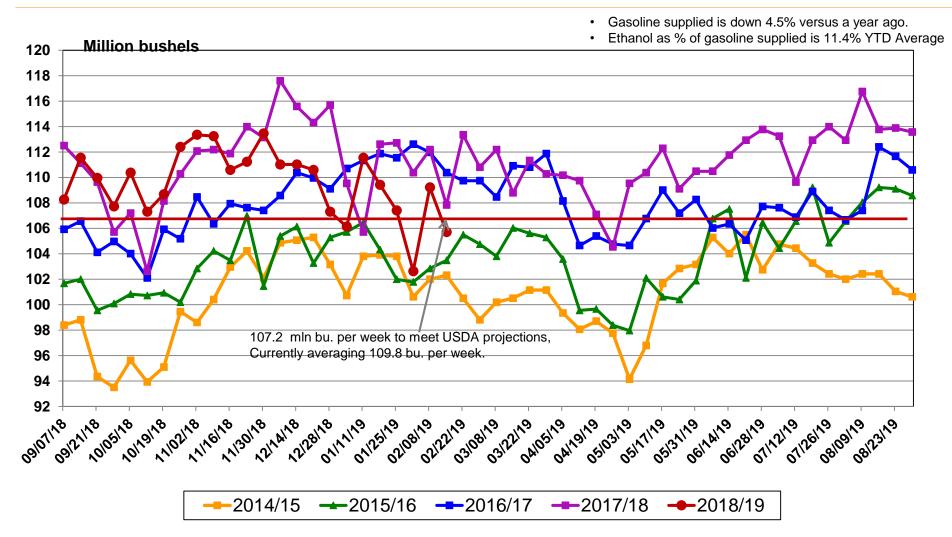


Source: USDA/AMS, Rabobank 2019

Weekly Corn Usage for Ethanol Production



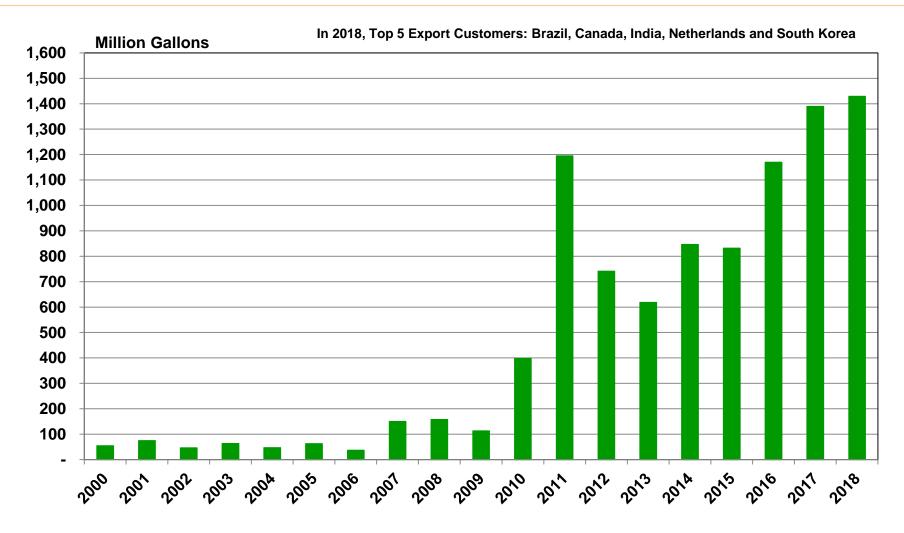
2018/19 ethanol production & corn usage are down -1.3% versus last year



U.S. Ethanol Exports continue to be strong



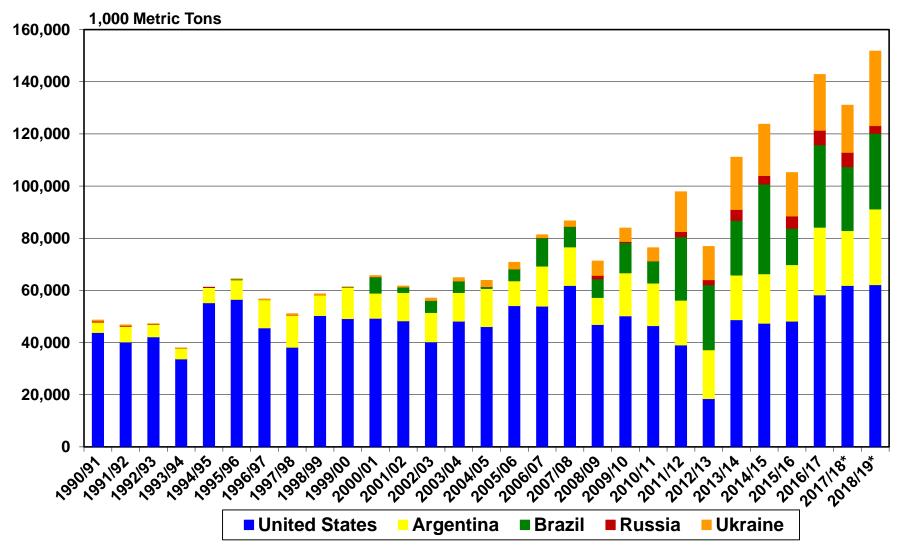
YTD 2018 U.S. ethanol exports for Jan-Nov are 30% ahead of last year



Global Corn Export Competition continues to grow

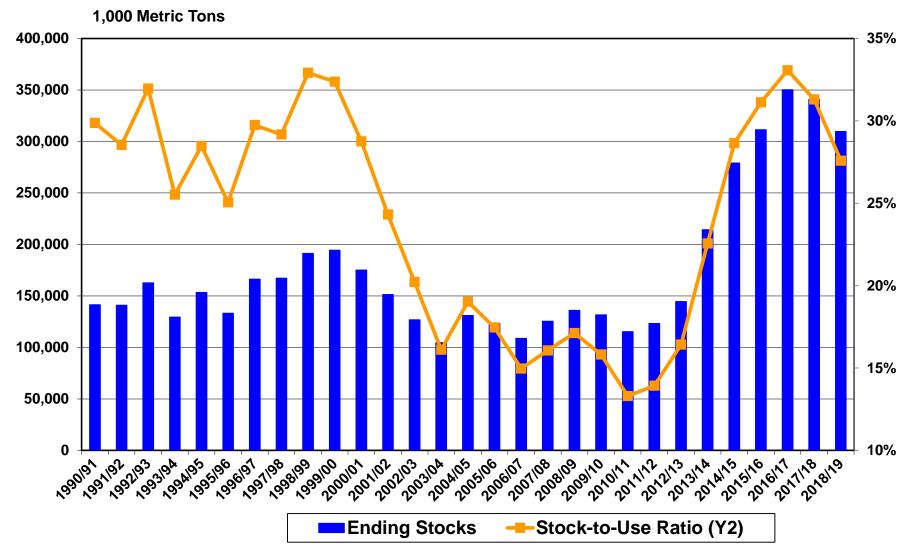


U.S. corn exports remain flat, as competitors' exports grow



Global Corn Stocks Down for 2nd Consecutive Year Still 4th highest stocks and a stock-to-use ratio in upper quartile

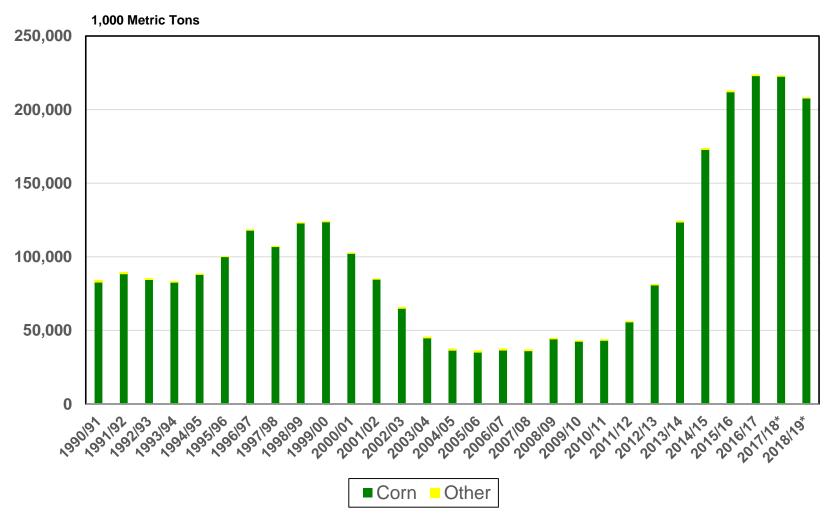




Major Revision in Chinese Corn Stocks



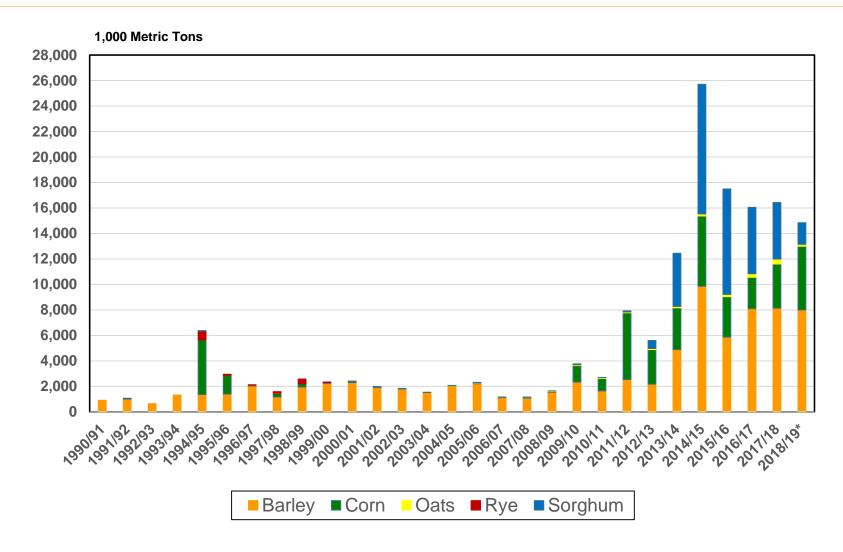
Doubling of previous stocks data—Chinese data has corn stocks higher yet.



Note: Other category includes barley, sorghum, millet, oats Source: USDA-FAS, Rabobank 2019

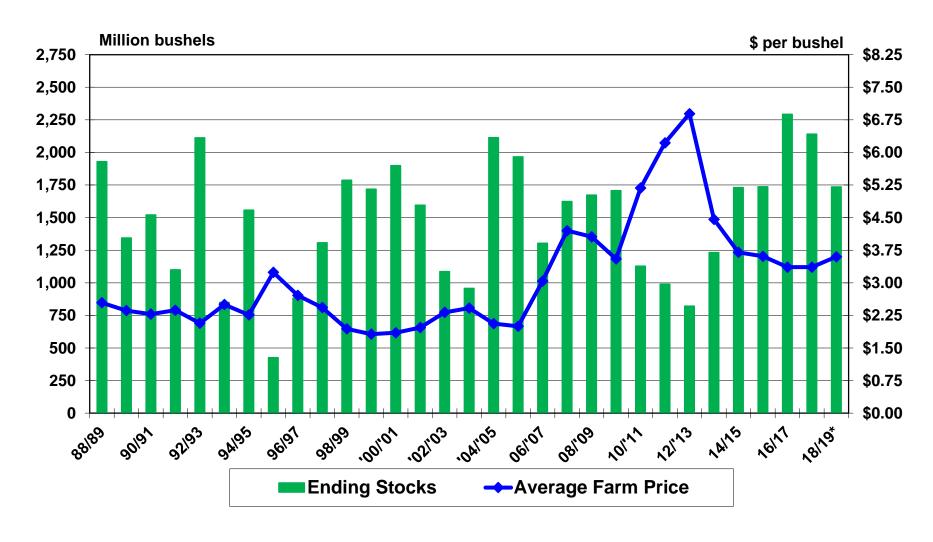
Chinese Corn Import Increasing Slightly... ...stocks revision points to less imports required—total imports flat





US Corn Ending Stocks Remain Healthy





^{*} Rabobank Projection



III. Soybeans



Soybeans--Bulls and Bears



Bullish Factors

- Hog and poultry numbers
- Strong crush margins
- Demand for products, i.e. meal
- Biodiesel production
- Strong soybean meal export
- Increased EU soybean imports

Bearish Factors

- Trade Tensions with China
- Record U.S. soybean stocks
- Record global soybean stocks
- Return of South America in 2019

Swing Factors

- Trade policies—moving from multi-lateral to tariff-based
- Chinese promises & purchases of U.S. soybeans
- Strength of U.S. Dollar
- Brazilian soybean crop



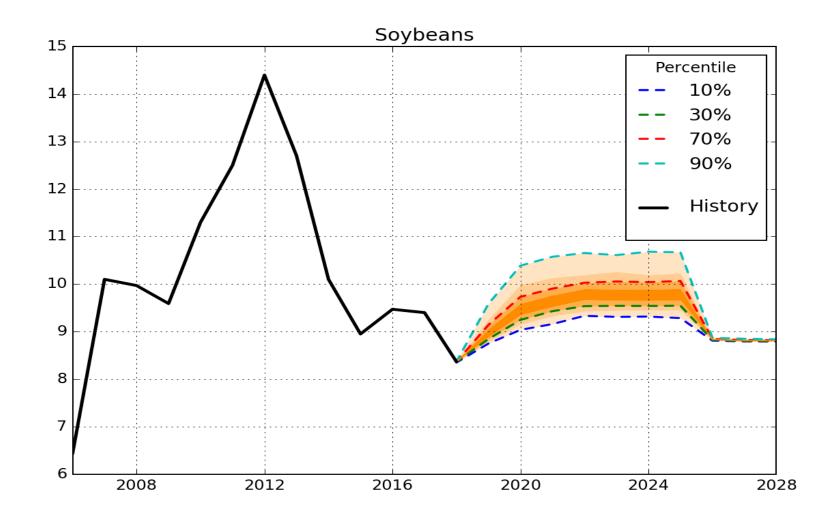
U.S. Soybean Balance Sheet (million bushels)

	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	USDA 2018/19*	Rabo 2019/20*
Planted Acres (mln)	75.0	77.2	76.8	83.3	82.7	83.5	90.2	89.2	85.0
Harvested Acres (mln	73.8	76.1	76.3	82.6	81.7	82.7	89.5	88.1	84.1
Yield (bu./acre)	41.9	40.0	44.0	47.5	48.0	51.9	49.3	51.6	51.2
Supply									
Beginning Stocks (9/1)	215	169	141	92	191	197	302	439	886
Production	3,094	3,042	3,358	3,927	3,926	4,296	4,412	4,544	4,305
Imports	16	41	72	33	24	22	22	20	34
Total Supply	3,325	3,252	3,570	4,052	4,141	4,516	4,735	5,002	5,225
Disappearance									
Crush	1,703	1,689	1,734	1,873	1,886	1,901	2,055	2,090	2,092
Exports	1,365	1,317	1,638	1,842	1,942	2,166	2,129	1,875	2,366
Seed, Feed & Residual	88	105	107	146	115	147	113	127	131
Total Disappearance	3,155	3,111	3,478	3,862	3,943	4,213	4,297	4,092	4,589
Ending Stocks	169	141	92	191	197	302	438	910	636
Stocks-to-Use Ratio (%)	5.3%	4.5%	2.6%	4.9%	5.0%	7.2%	10.2%	22.2%	13.9%
Average Farm Price (\$/bu.)	\$12.50	\$14.40	\$13.00	\$10.10	\$8.95	\$9.47	\$9.33	\$8.60	\$8.90

^{*} Projections

National Average Farm Received Prices 70% probability that prices will be under \$10.00 per bushel

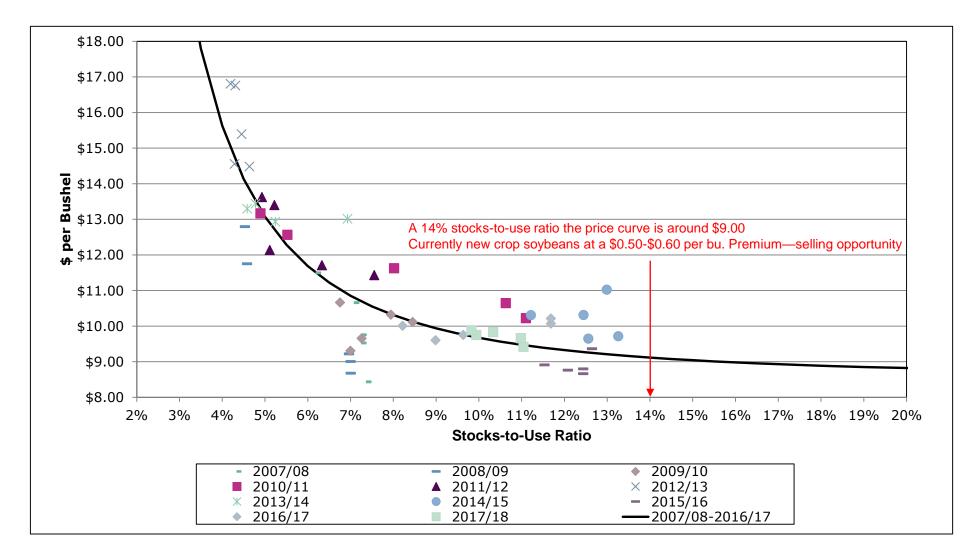




Source: Rabobank 2018

U.S. Soybean Price Curve (Average for Q4 futures) Soybean futures are trading where fundamentals suggest they should be

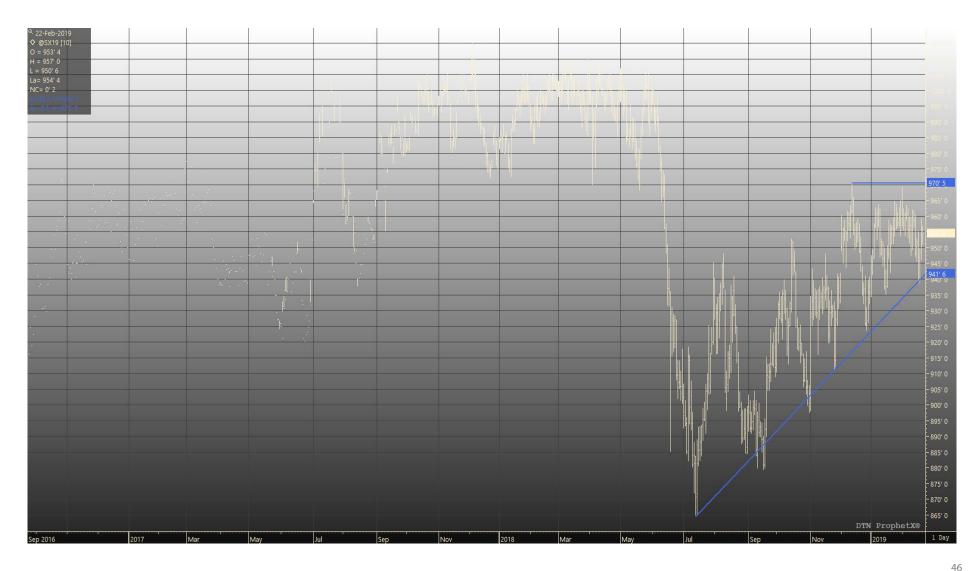




Source: Rabobank 2018

Nov Soybean Futures (SX19) Upside resistance in \$9.70 area

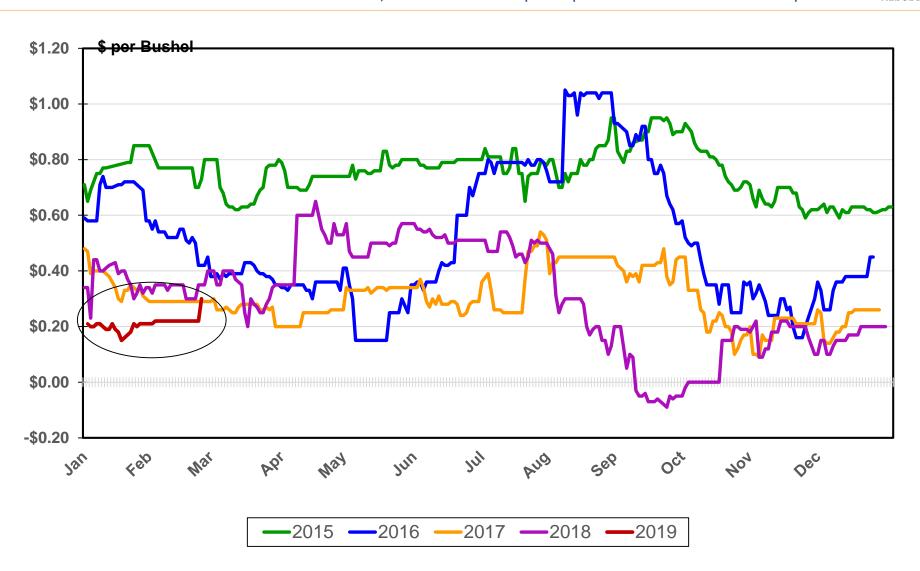




Gulf CIF Soybean Basis Bid



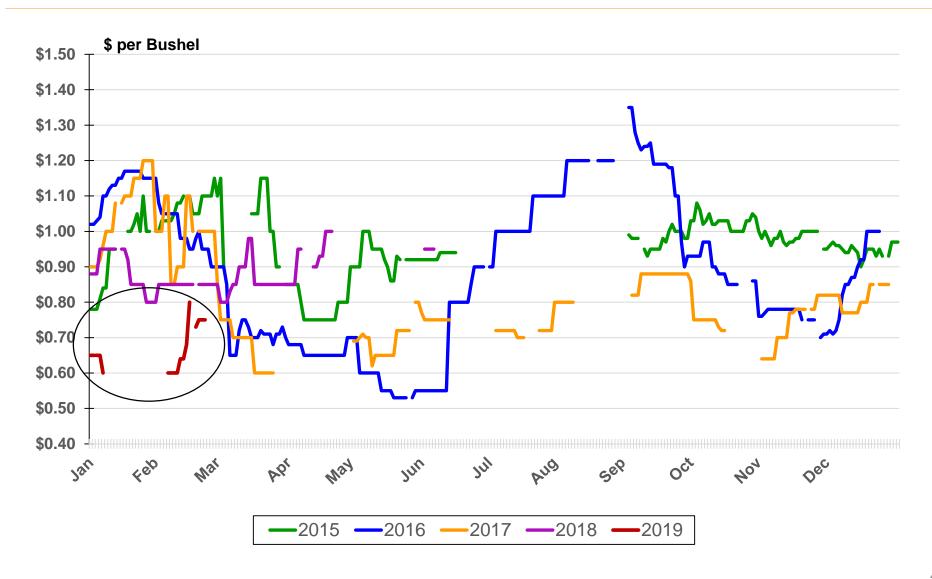
Basis values has rebounded from harvest lows, but have little upside potential with tariffs still in place



Portland-PNW Soybean Basis Bid



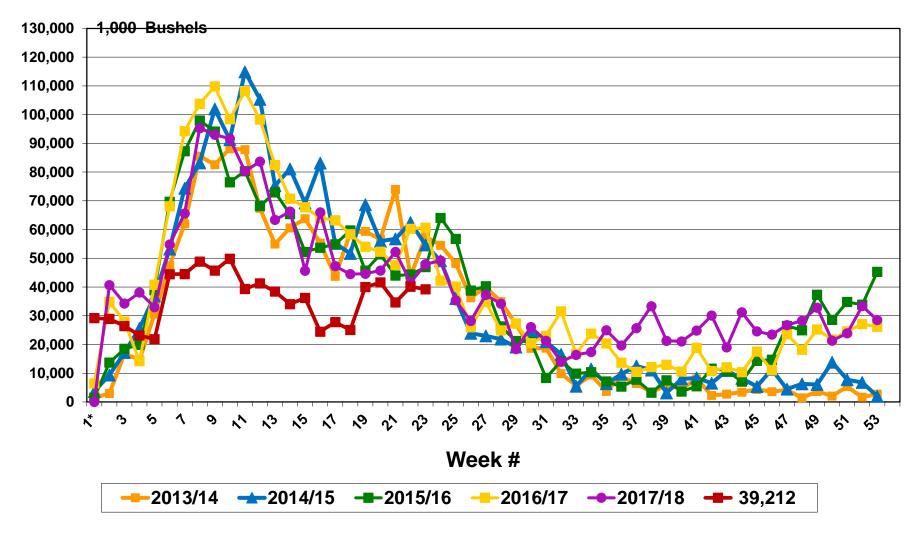
Appreciating basis bid an indicator of Asian buying, but still below previous years



U.S. Soybean Export Inspections



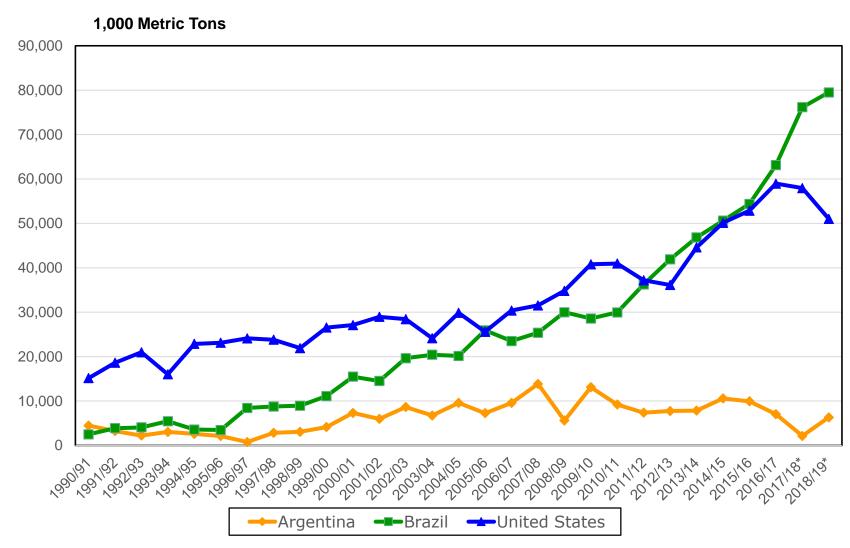




Source: USDA/AMS, Rabobank 2019



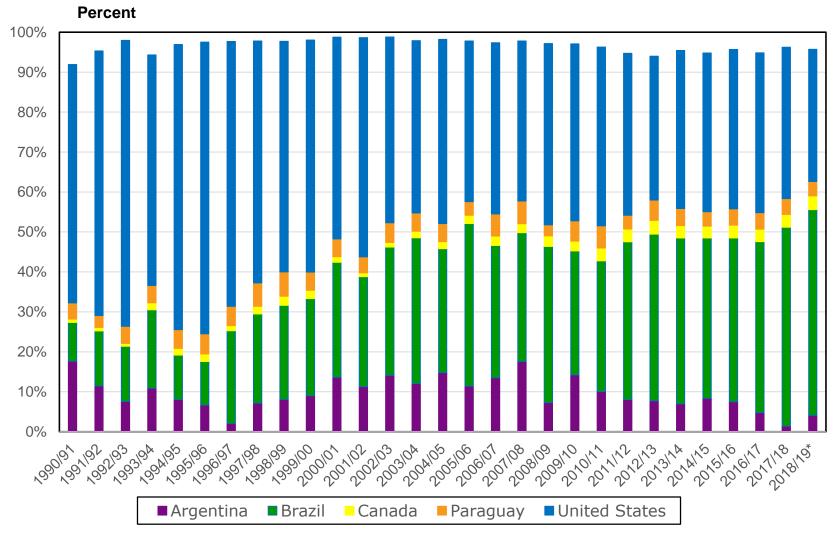
Brazil and U.S. Soybean Export Trend is Diverging



Brazil Has Taken Export Market Share Away from the U.S.

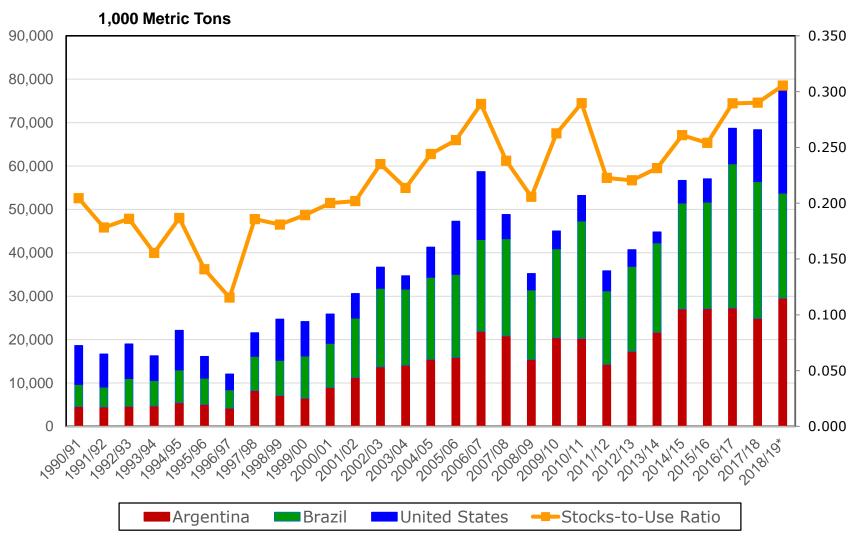


U.S. (33%) continues to lose market share to Brazil (52%)—trade tensions is likely to increase Brazil's market share more rapidly, but there will be a limit.



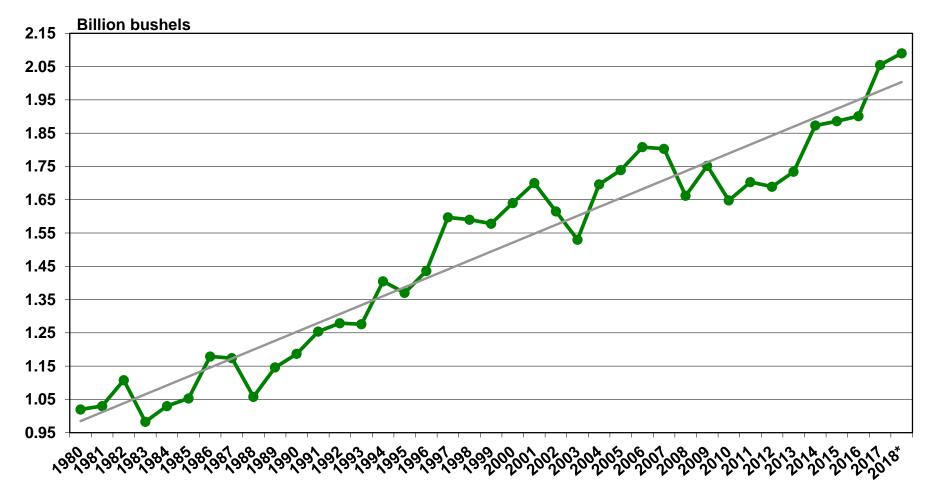
Record Global Soybean Stocks and Stocks-to-Use Ratio This is all despite a lower than expected Brazilian crop of 117 MMT







U.S. Soybean Crush—Topping 2.0 bln bushels



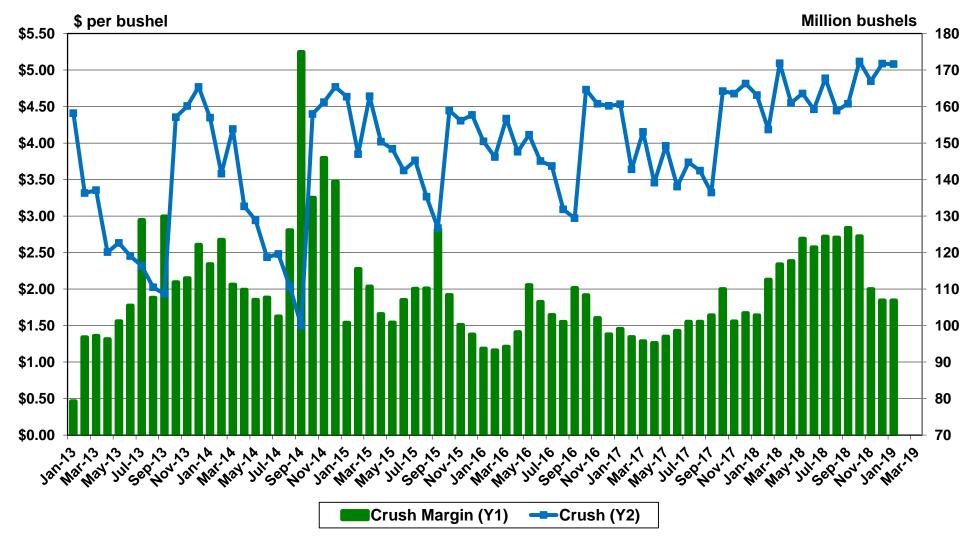
Crop Year beginning with Sept. 1

^{*} Rabobank Projection

U.S. Crush Margins Are Strong



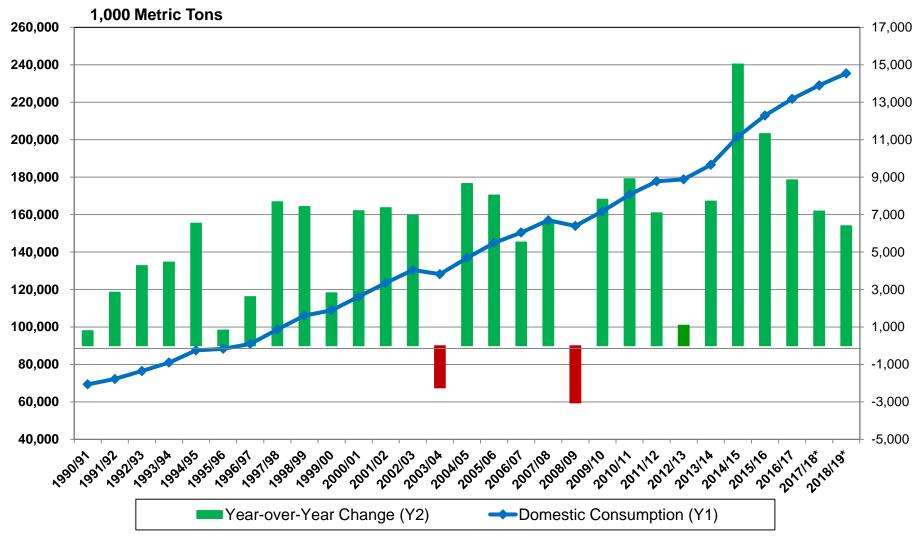
Strong crush margins will keep soybean demand up and crushers crushing



Source: NOPA, Rabobank 2018

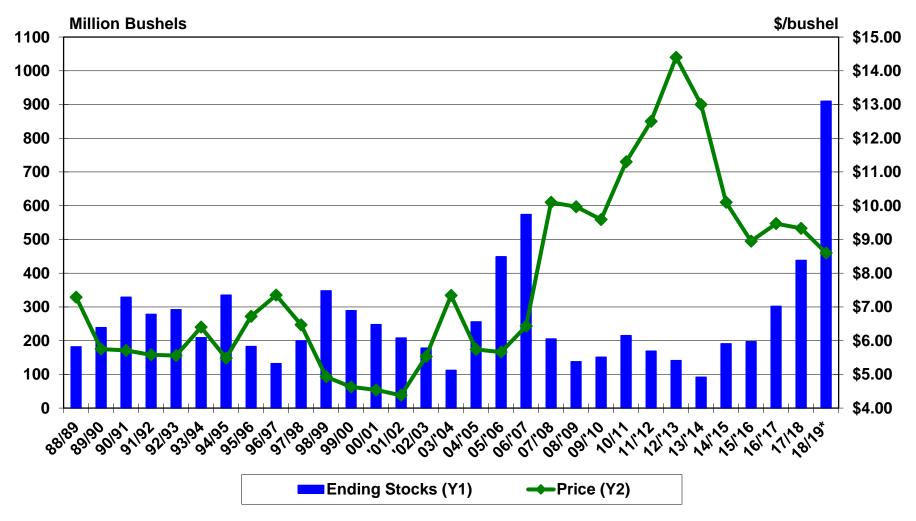
Global Soybean Meal Domestic Consumption Continues to Increase African Swine Fever may change this trajectory—seeing slow down in growth







Record U.S. Soybean Ending Stocks





IV. Vegetable Oils



Vegetable Oil--Bulls and Bears



Bullish Factor

- Strong biodiesel production—crop yearto-date +5.0% vs last crop year
- Global vegetable oil stocks and stocks-touse down
- Funds investing in soybean oil
- Strong U.S. soybean oil exports
- Increasing global biodiesel blends

Bearish Factors

- Record Malaysian palm oil stocks
- Building U.S. soybean oil stocks
- Increasing available of competitive vegetable oils, e.g. canola oil
- Strong crush have keep supplies plentiful
- Increasing supplies out of Argentina in 2019

Swing Factors

- Crude oil prices
- 2019 Argentine soybean and product production
- Global and domestic soybean meal demand
- Palm oil plantations replanting in next several years

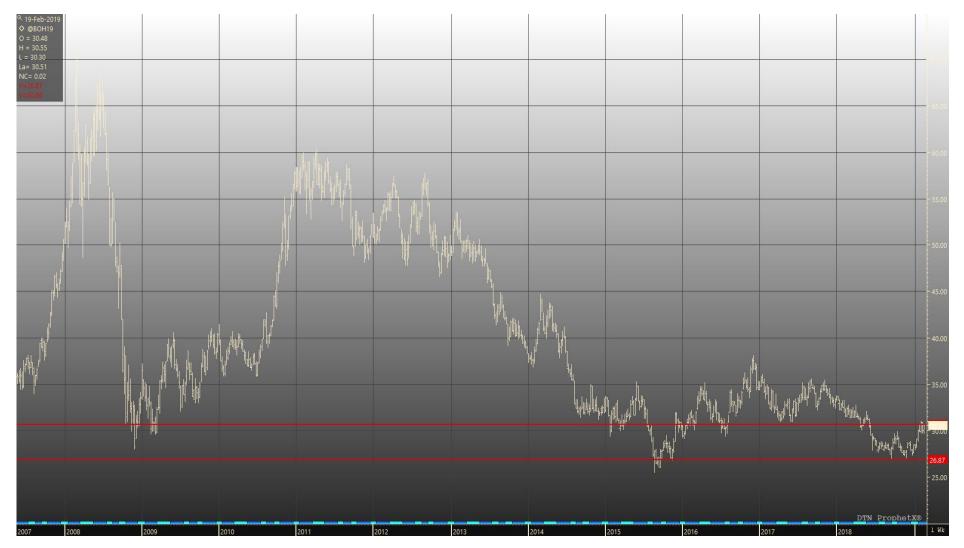


U.S. Soybean Oil Balance Sheet (million pounds)

	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	USDA 2018/19
Supply								
Beginning Stocks (10/1)	2,676	2,591	1,657	1,167	1,857	1,689	1,713	1,992
Production	19,740	19,820	20,130	21,399	21,950	22,123	23,767	24,455
Total Supply	22,565	22,606	21,952	22,830	24,094	24,131	25,815	26,747
Disappearance								
Domestic Use	18,510	18,787	18,908	18,959	20,162	19,862	21,376	22,400
Biodiesel	4,874	4,689	5,010	5,039	5,670	6,200	7,134	8,000
Exports	1,464	2,163	1,877	2,014	2,243	2,556	2,447	2,250
Total Disappearance	19,974	20,949	20,785	20,973	22,405	22,418	23,823	24,650
Ending Stocks	2,591	1,657	1,167	1,857	1,689	1,713	1,992	2,097
Stocks-to-Use Ratio (%)	12.9%	7.9%	5.6%	8.9%	7.5%	7.6%	8.4%	8.5%
Price-Decatur (cents/lb.)	51.90	47.13	38.23	31.60	29.86	32.48	30.04	28.50- 33.50
Crush (mln bushels)	1,703	1,680	1,725	1,903	1,890	1,906	2,079	2,090
Yield (lbs. per bu.)	11.59	11.80	11.67	11.24	11.61	11.61	11.43	11.70

Weekly Soybean Oil Futures (cents per pound) Futures run up against upside resistance around \$0.31

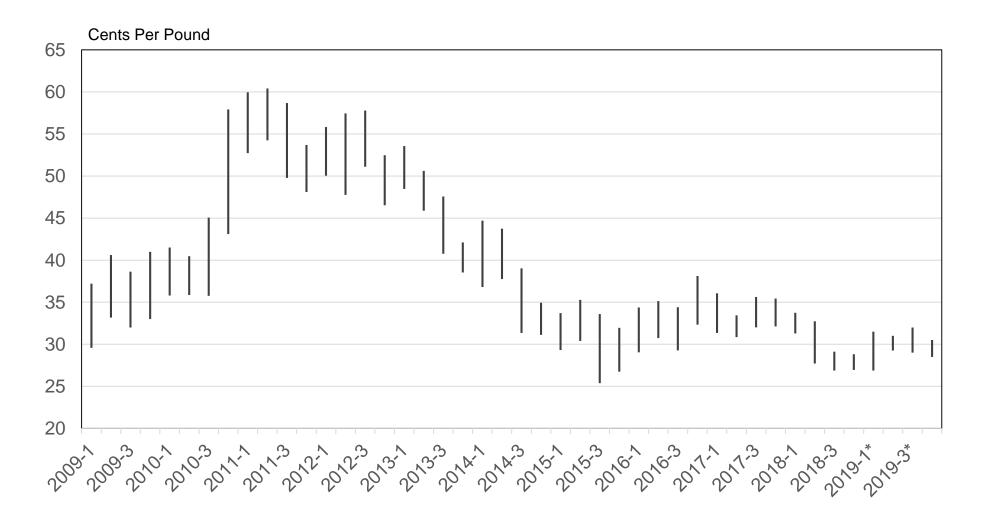




Nearby CBOT Futures Price Forecast for Soybean Oil

2019 futures are expected to remain in narrow trading range





Nearby CBOT Futures Price Forecast for Soybean Oil (cents per pound)

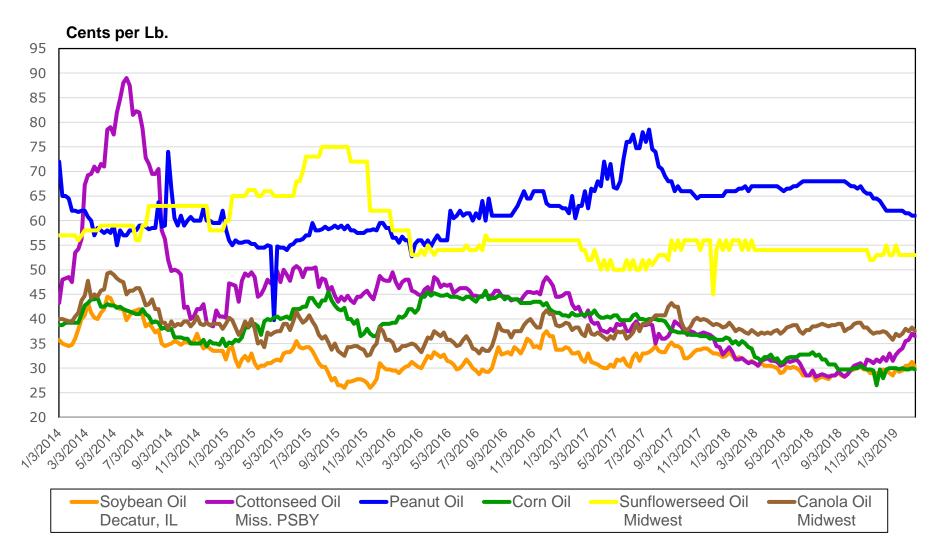


Year	Jan-Feb-Mar	Apr-May-Jun	Jul-Aug-Sep	Oct-Nov-Dec	
2011	\$52.73-\$59.96	\$54.25-\$60.41	\$49.77-\$58.68	\$48.11-\$53.70	
2012	\$50.05-\$55.82	\$47.76-\$57.45	\$51.11-\$57.78	\$46.52-\$52.47	
2013	\$48.46-\$53.57	\$45.88-\$50.61	\$40.76-\$47.57	\$38.54-\$42.12	
2014	\$36.80-\$44.70	\$37.76-\$43.74	\$31.34-\$39.04	\$31.12-\$34.95	
2015	\$29.32-\$33.71	\$30.39-\$35.29	\$25.38-\$33.60	\$26.74-\$31.96	
2016	\$29.04-\$34.37	\$30.74\$-35.14	\$29.28-\$34.41	\$32.33-\$38.11	
2017	\$31.35-\$36.07	\$30.86-\$33.44	\$32.01-\$35.60	\$32.12-\$35.44	
2018	\$31.28-\$33.75	\$27.72-\$32.73	\$26.88-\$29.12	\$26.95-\$28.82	
2019	\$26.88-\$31.50	\$29.25-\$31.00	\$29.00-\$32.00	\$28.50-\$30.50	

^{*}Shaded area indicates Projection



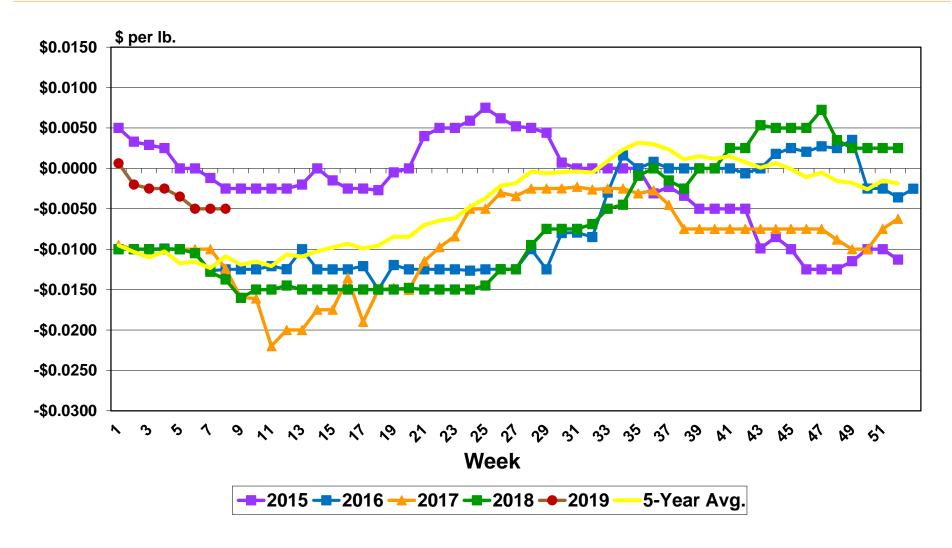




U.S. Soybean Oil Basis---Central Illinois



Basis values have been supported by higher freights costs

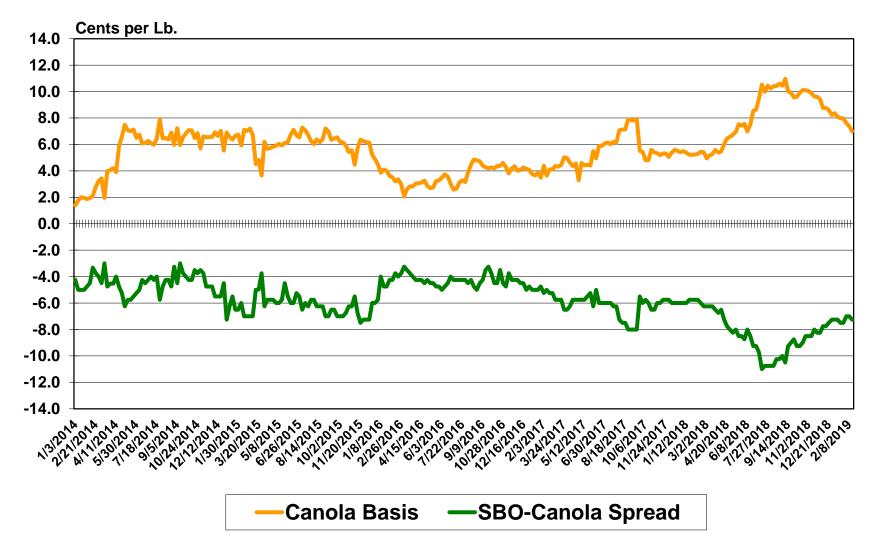


Source: Trade News Service, Rabobank 2019

Canola Oil Basis and Premium to Soybean Oil

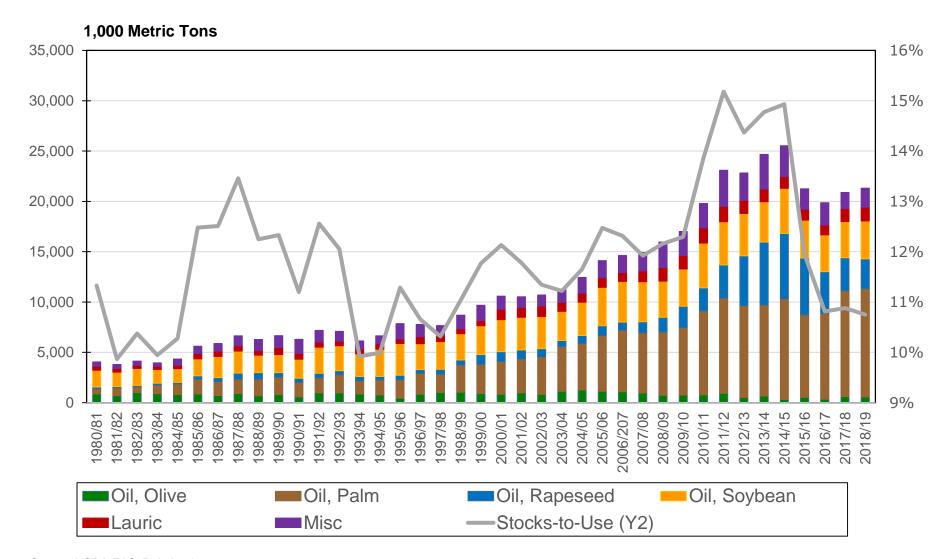


Canola oil basis values are attractive





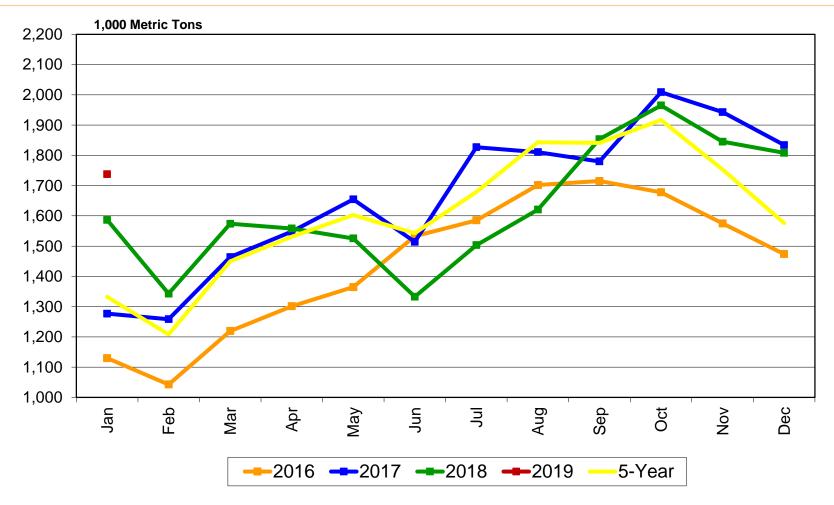
Global Veg. Oil Stocks Increasing—Demand Remains Strong



Malaysia Palm Oil Production Remains High



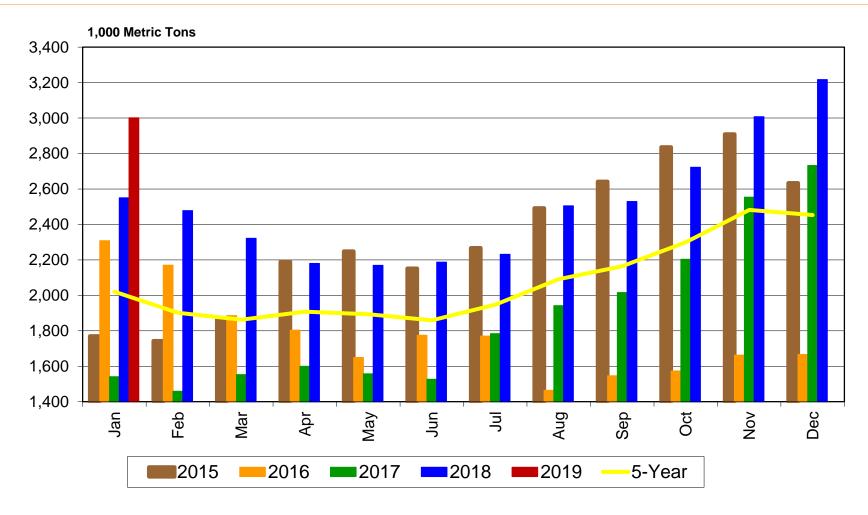
Over next 2-3 years significant numbers of palm tree will need replacing



Source: MPOB, Rabobank 2019

Malaysia Palm Oil Stocks—Reaching Record Levels

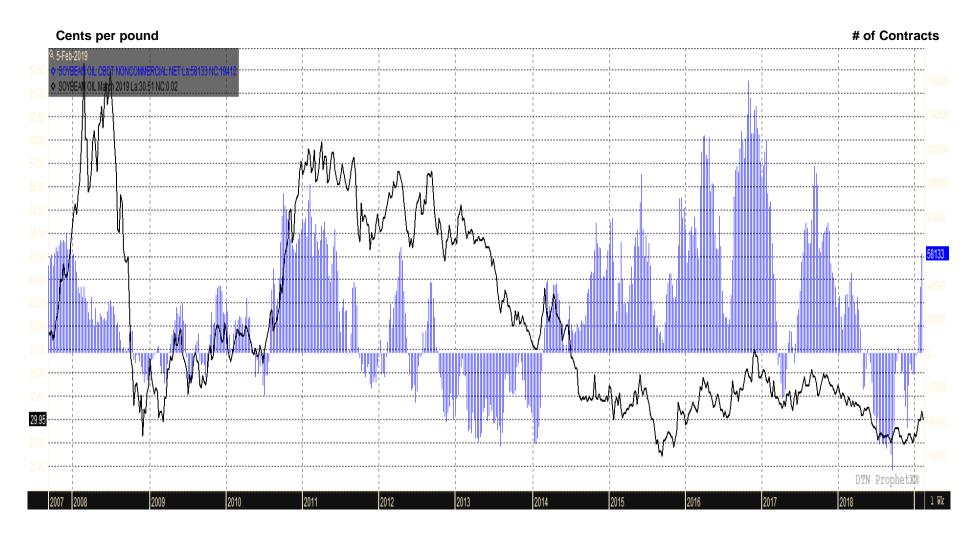




^{*} Source: MPOB, Rabobank 2019

Funds' Net Position and Nearby Soybean Oil Futures Price Funds have been supportive to soybean oil futures

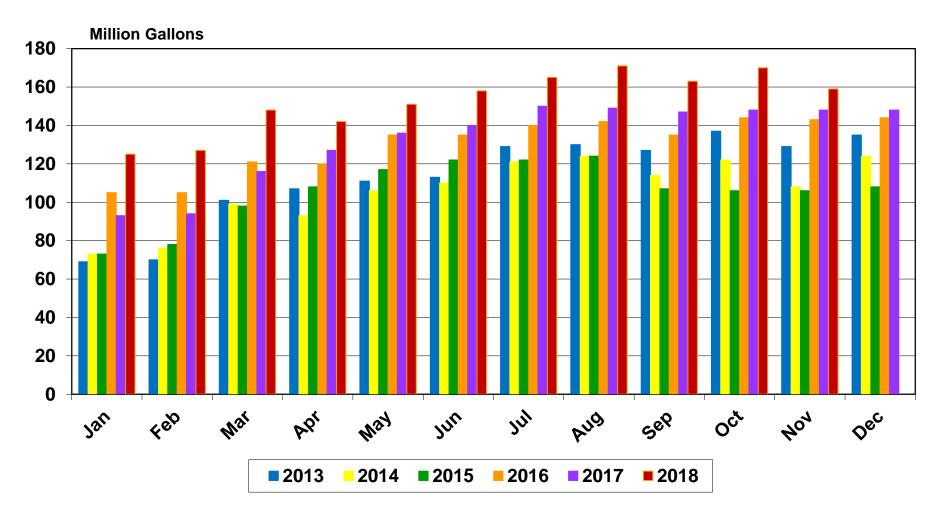




Monthly B-100 Production





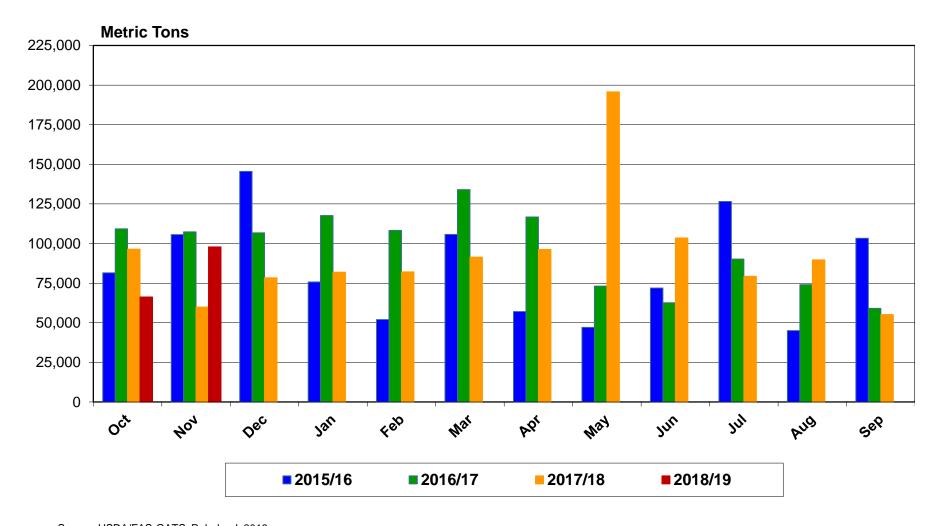


Source: U.S. Energy Information Administration, Rabobank 2019

Monthly U.S. Soybean Oil Exports



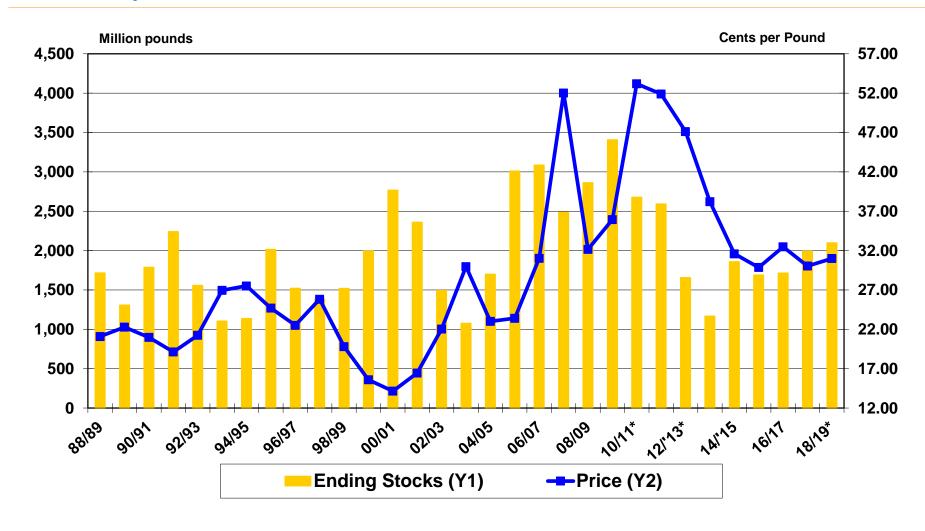




Source: USDA/FAS-GATS, Rabobank 2019

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U.S. Soybean Oil Stocks vs Price





V. Wheat



Wheat--Bulls and Bears



Bullish Factors

- Ongoing drought in eastern Australia
- Lower production in Black Sea region
- Seasonal decline in Black Sea
 Region exports
- Price competitiveness of U.S. wheat

Bearish Factors

- 25% Chinese tariff on U.S. wheat imports
- U.S. and world wheat stocks are more than adequate
- Good moisture in the U.S. Southern Plains
- U.S. losing market share in China, Mexico and Caribbean
- Black Sea remains an aggressive exporter

Swing Factors

- U.S. export pace in LH of marketing year—Black Sea supplies dwindling
- 2019 Wheat Plantings—winter down 1.245 mln acres
- U.S. Dollar
- Trade Tensions
- Currency of export competitors
- U.S. Spring weather

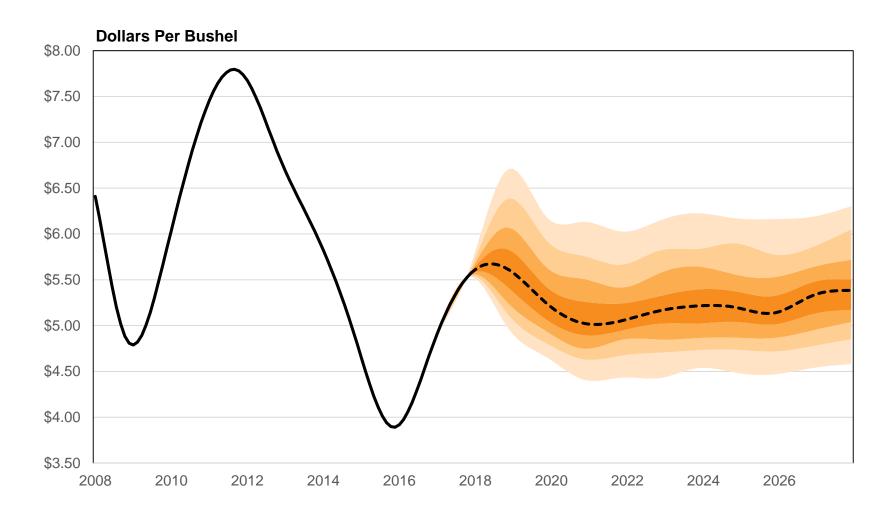


U.S. All-Wheat Balance Sheet (million bushels)

	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	USDA 2018/19	Rabo 2019/20
Planted Acres (mln)	54.3	55.3	56.2	56.8	55.0	50.1	46.1	47.8	47.8
Harvested Acres (mln)	45.7	48.8	45.3	46.4	47.3	43.8	37.6	39.6	39.9
Yield (bu./acre)	43.6	46.2	47.1	43.7	43.6	52.7	46.4	47.6	49.6
Supply									
Beginning Stocks (6/1)	863	743	718	590	752	976	1,181	1,099	971
Production	1,993	2,253	2,135	2,026	2,062	2,309	1,741	1,884	1,980
Imports	112	123	173	151	113	118	157	140	142
Total Supply	2,968	3,118	3,026	2,768	2,927	3,402	3,077	3,123	3,093
Disappearance									
Food	941	945	955	958	957	949	964	970	983
Exports	1,051	1,012	1,176	864	778	1,051	901	1,000	1,009
Seed, Feed & Residual	233	443	305	193	216	221	114	143	172
Total Disappearance	2,226	2,400	2,436	2,015	1,951	2,222	1,980	2,113	2,164
Ending Stocks	743	718	590	752	976	1,181	1,099	1,010	929
Stocks-to-Use Ratio (%)	33.3%	29.9%	24.2%	37.3%	50.0%	53.2%	55.6%	45.3%	42.9%
Average Farm Price (\$/bu.)	\$7.24	\$7.77	\$6.87	\$5.99	\$4.89	\$3.89	\$4.72	\$5.15	\$5.45

All-Wheat Price Probabilities (Average Price Received by Farmer) All-wheat prices will be in \$5.00-\$5.20 area





Source: Rabobank 2018

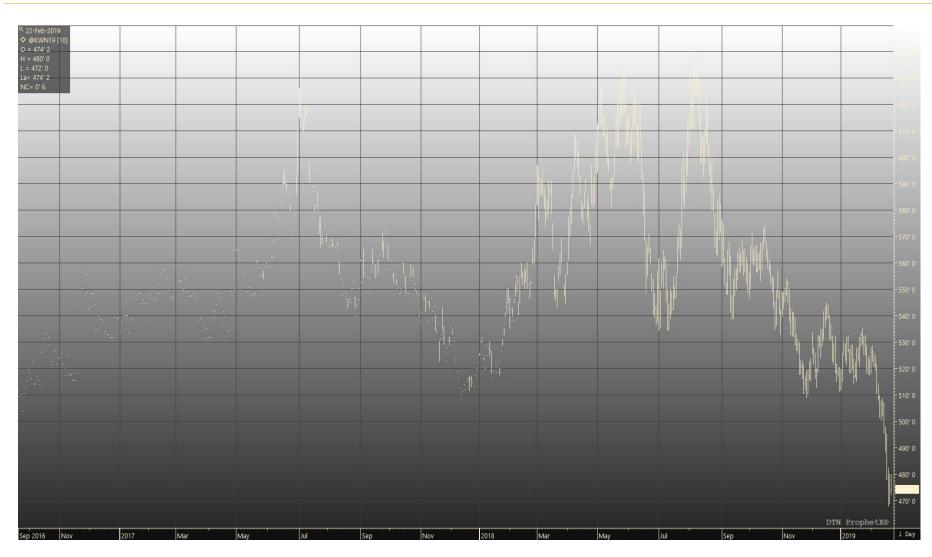


U.S. HRW Balance Sheet (million bushels)

	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	USDA 2018/19
Planted Acres (mln)	28.2	28.5	29.6	29.7	30.5	29.2	26.6	23.4	22.9
Harvested Acres (mln)	23.9	21.5	24.6	20.4	21.9	23.2	21.9	17.6	16.9
Yield (bu./acre)	42.1	36.4	40.6	36.6	33.7	35.8	49.5	42.5	39.1
Supply									
Beginning Stocks (6/1)	385	387	317	343	237	294	446	589	581
Production	1,006	783	998	747	739	830	1,082	750	662
Imports	0	0	18	19	10	6	5	7	5
Total Supply	1,392	1,170	1,333	1,109	985	1,130	1,533	1,346	1,247
Disappearance									
Food	359	404	404	370	370	391	385	392	392
Exports	617	397	382	446	272	227	453	371	320
Seed, Feed & Residual	29	52	204	56	50	67	105	3	45
Total Disappearance	1,005	853	990	872	692	685	943	765	757
Ending Stocks	387	317	343	237	294	446	589	580	490
Stocks-to-Use Ratio (%)	38.5%	37.2%	34.6%	27.1%	42.5%	65.1%	62.4%	75.7%	64.7%
Average Farm Price (\$/bu.)	\$6.49	\$6.92	\$7.56	\$7.03	\$6.02	\$4.68	\$3.37	\$4.18	\$4.65

Kansas City July Wheat Look Like a Buy





Source: DTN

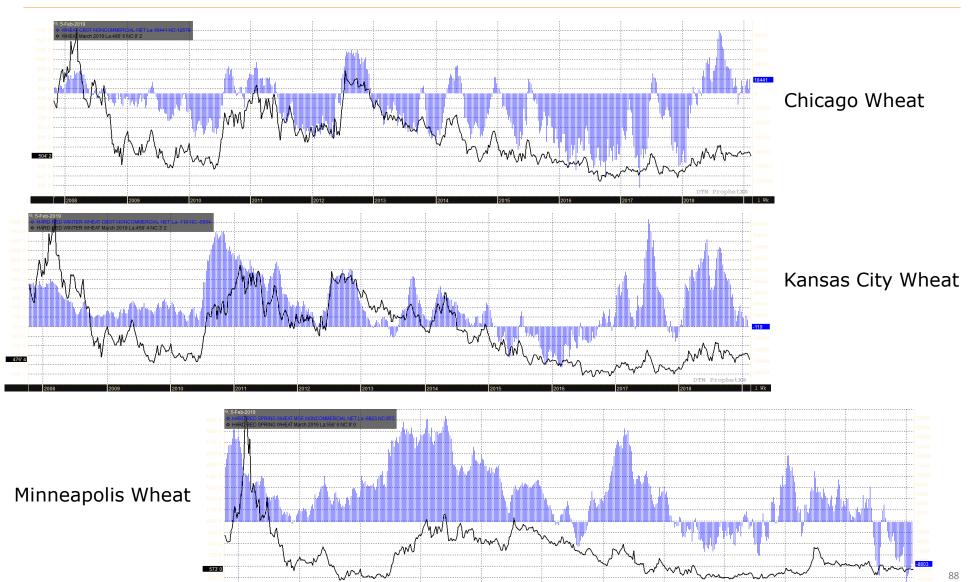


U.S. HRS Balance Sheet (million bushels)

	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	USDA 2018/19*
Planted Acres (mln)	12.8	11.6	11.7	10.9	12.2	12.6	10.9	10.5	12.7
Harvested Acres (mln)	12.5	11.3	11.5	10.7	12.0	12.3	10.6	9.7	12.4
Yield (bu./acre)	45.1	35.2	43.9	45.8	46.3	46.0	46.3	39.8	47.3
Supply									
Beginning Stocks (6/1)	234	185	151	165	169	212	272	235	191
Production	564	396	503	491	556	568	491	384	587
Imports	28	35	44	77	68	62	67	88	72
Total Supply	826	616	698	733	792	842	830	707	850
Disappearance									
Food	247	223	230	267	266	251	250	254	260
Exports	340	243	233	246	274	254	319	228	300
Seed, Feed & Residual	54	0	71	51	40	55	25	34	28
Total Disappearance	641	465	533	564	580	570	595	516	588
Ending Stocks	185	151	165	169	212	272	235	191	262
Stocks-to-Use Ratio (%)	28.9%	32.5%	31.0%	30.0%	36.6%	47.7%	39.5%	37.0%	44.6%
Average Farm Price (\$/bu.)	\$6.54	\$8.38	\$8.27	\$6.73	\$5.73	\$4.75	\$4.60	\$5.83	\$5.00

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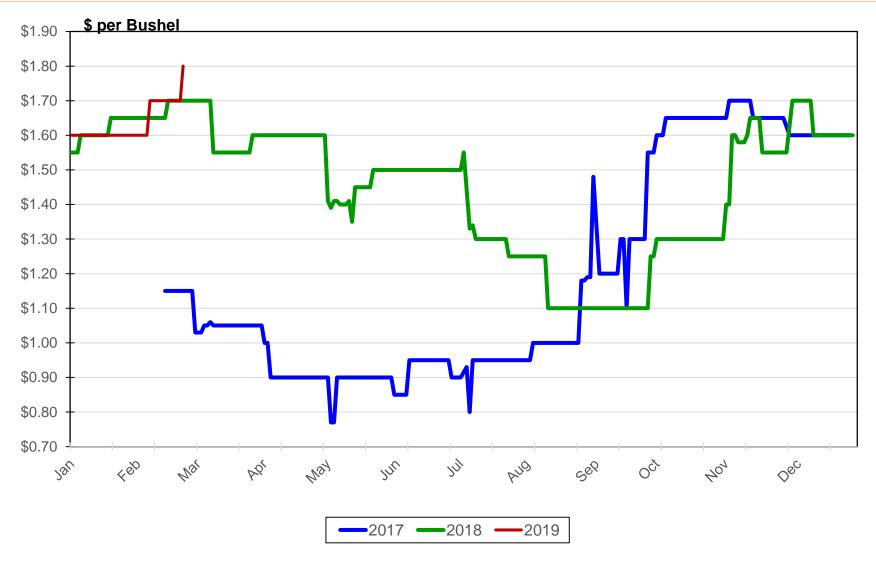
Surprising Funds are out of Wheat Market other than HRS



HRW Portland CIF Basis Bids Reflecting expected increase in export business



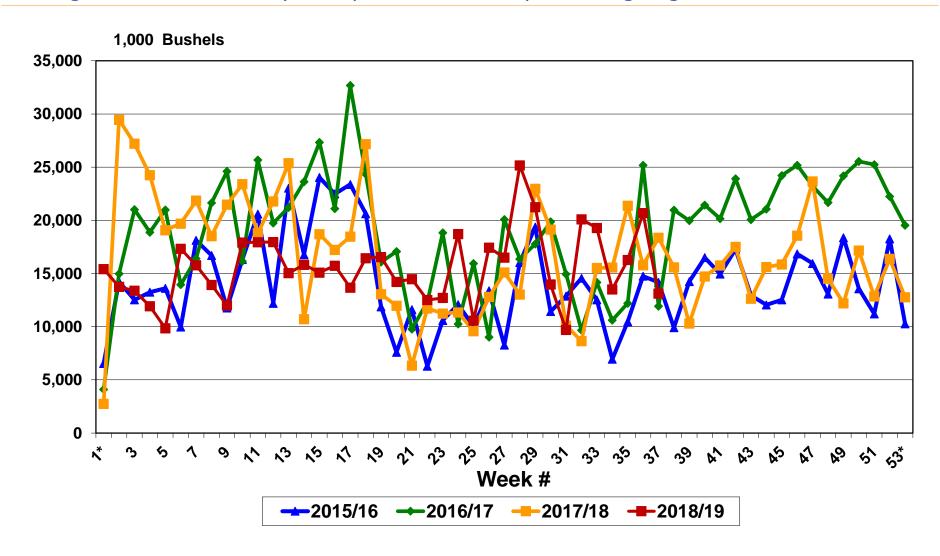
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U.S. Wheat Export Inspections



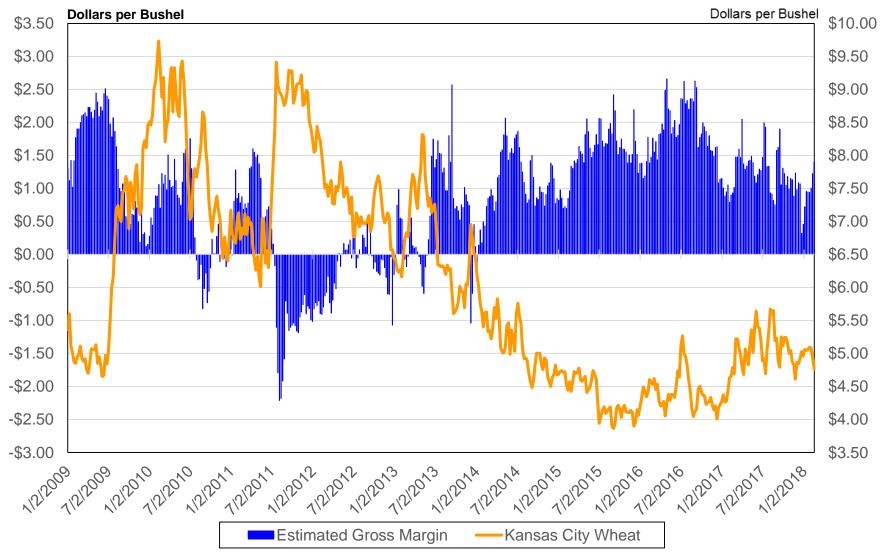
running 8.6% behind last year's pace—trade is optimistic going forward



Calculated Gross Flour Milling Margins

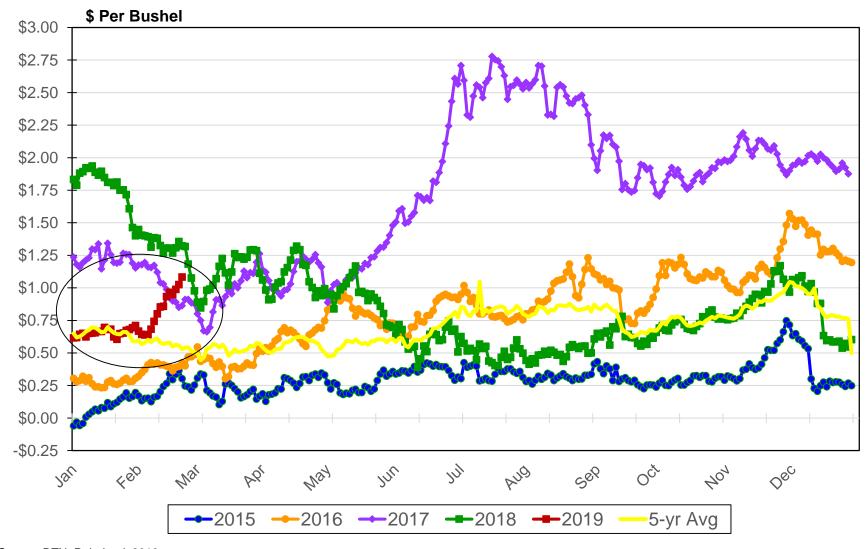


"It is good to be a flour miller"



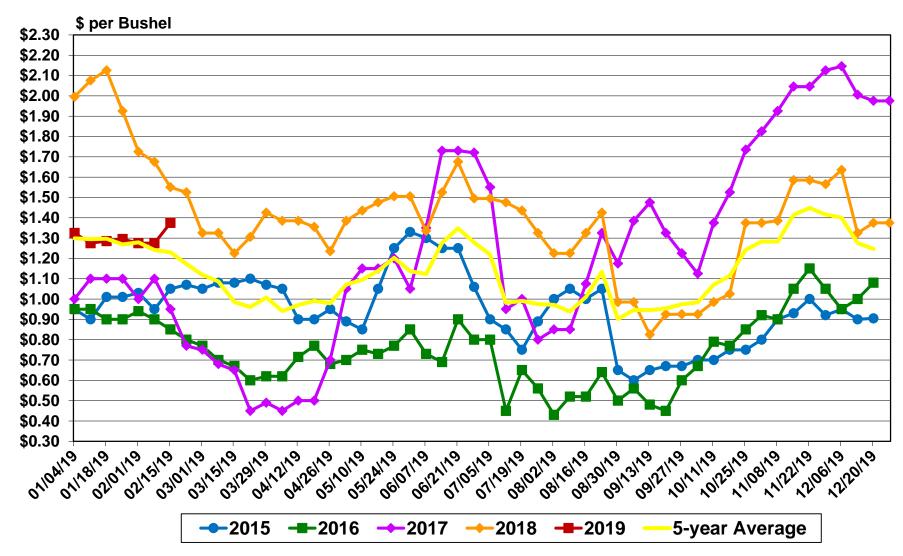
Minneapolis/Kansas City Spread Market has begun to think about protein demand recently





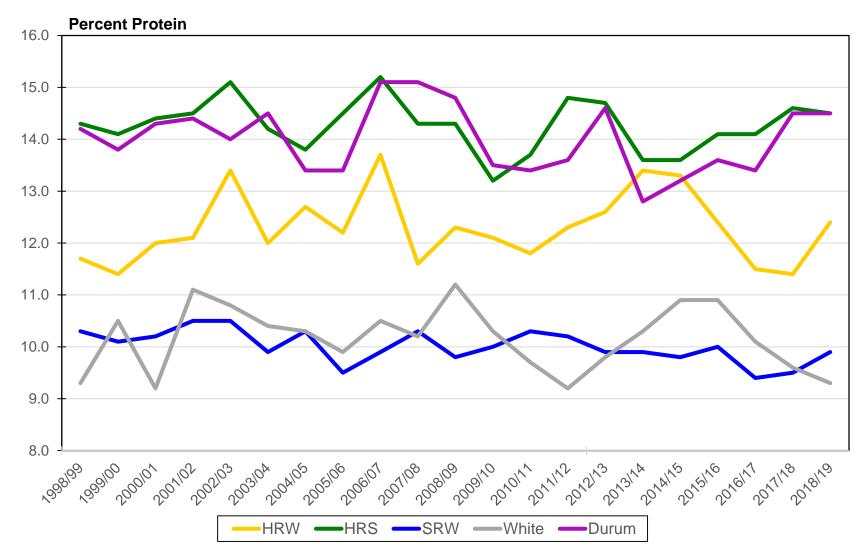
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12% Kansas City Protein Premium—Moving Against Seasonal



U.S. Wheat Crop Protein Percentages Overall protein percent improved in 2018, except white wheat

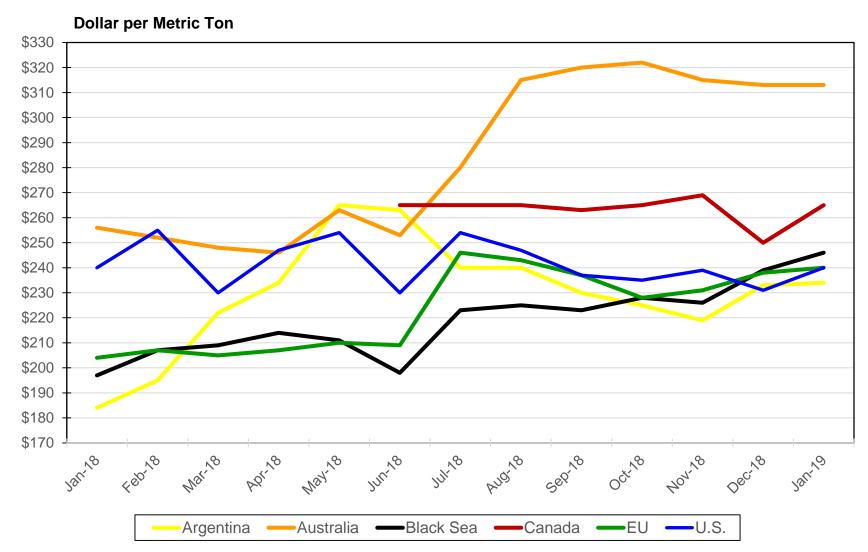






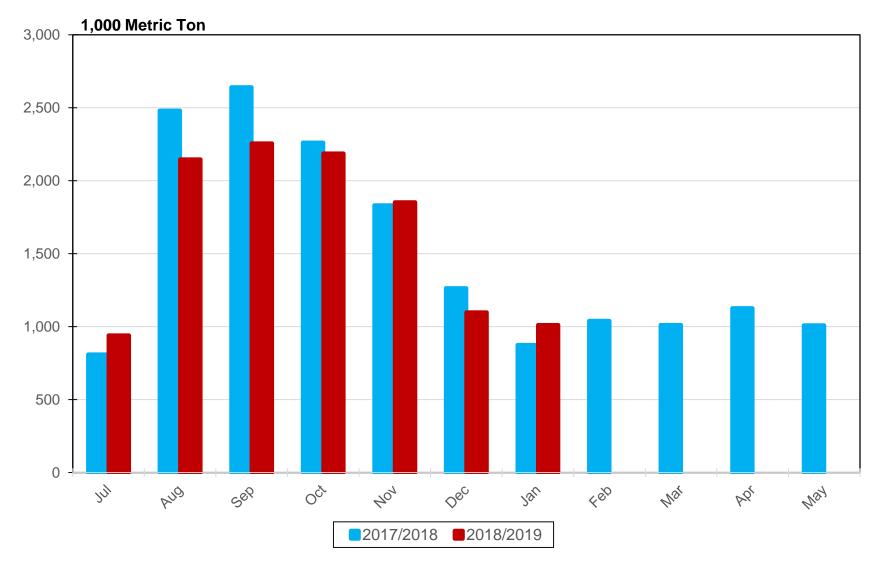
95

U.S. Wheat Export Prices are Competitive in the Global Market



Ukrainian Exports Down 5.5%, despite 7.3% decline in Production Exports dropping off seasonally portend increase in U.S. exports

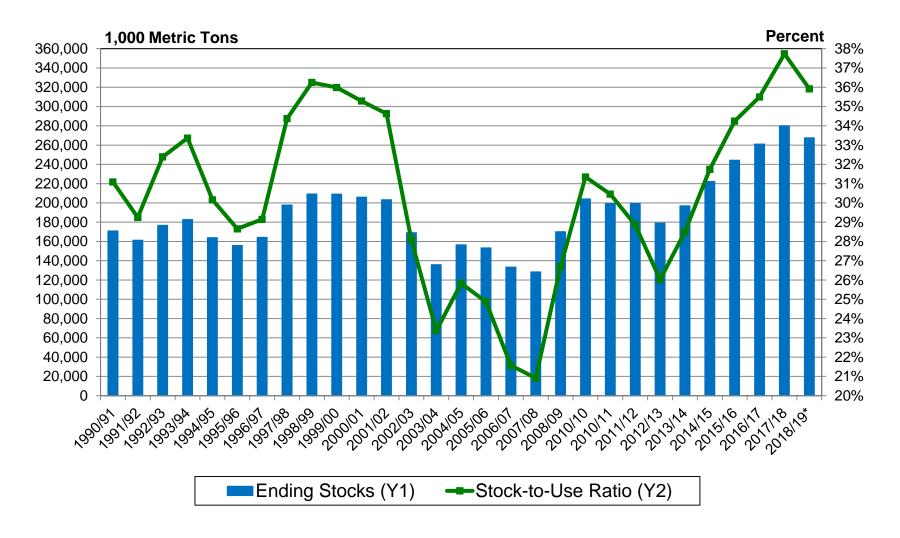




Contracting World Wheat Stocks, But...





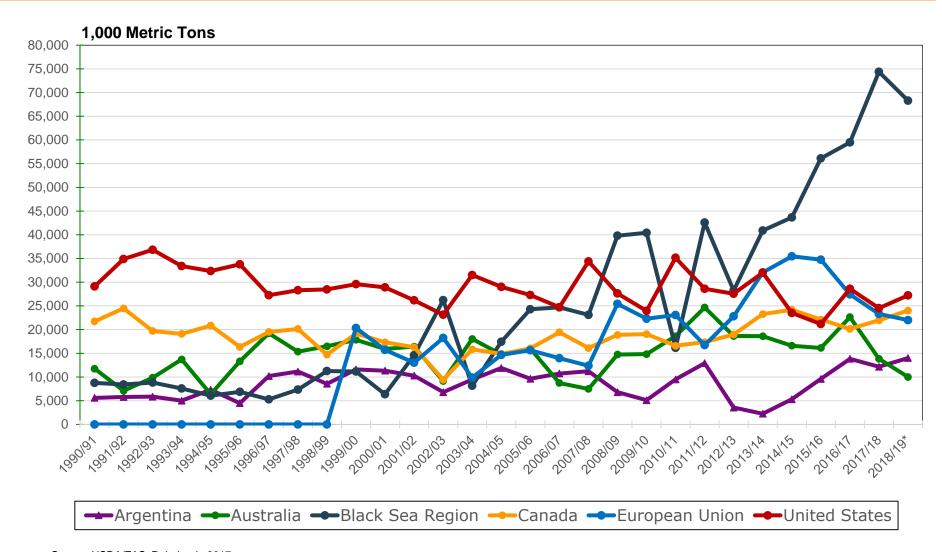


Source: USDA/FAS, Rabobank, 2019

Global Wheat Exports by Country/Region



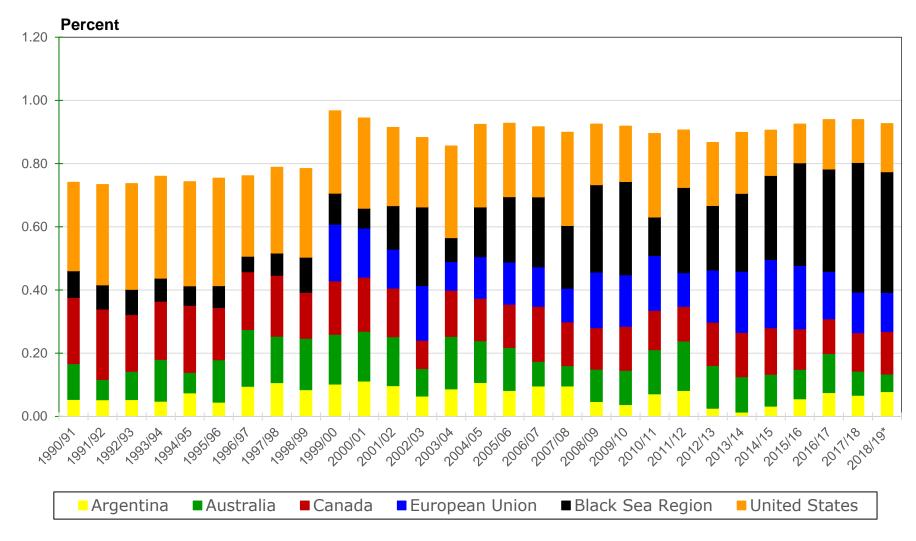
Black Sea forecast is down, but they are off to stronger pace than last year



Global Wheat Exports Market Share

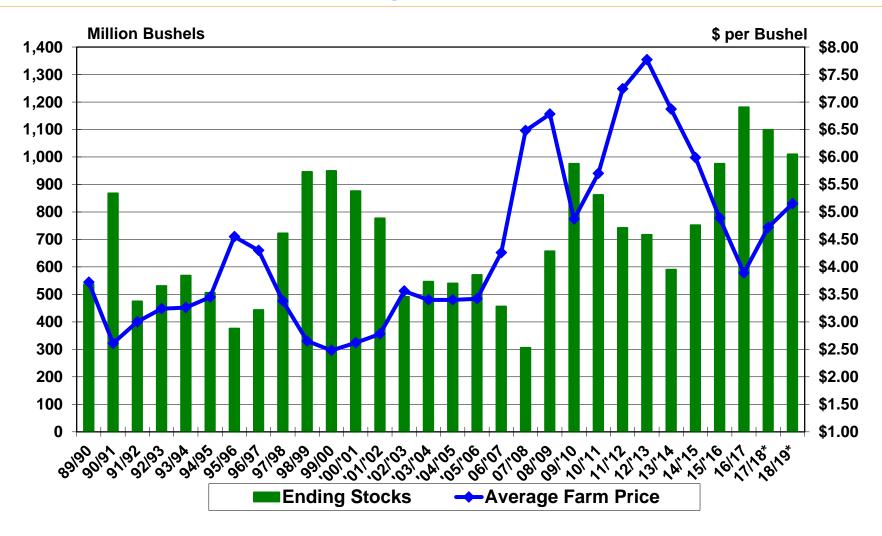


Black Sea expanding its share of world market



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U.S. Wheat Stocks Declining, but still Burdensome



- · Rabobank Projection
- · Source: USDA/WASDE, Rabobank 2018

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Banking & Securities Disclosure



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