

Form-A-Feed

Risk Assessment and Management

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Drowning in a sea of opportunity as the weather forecast dries out

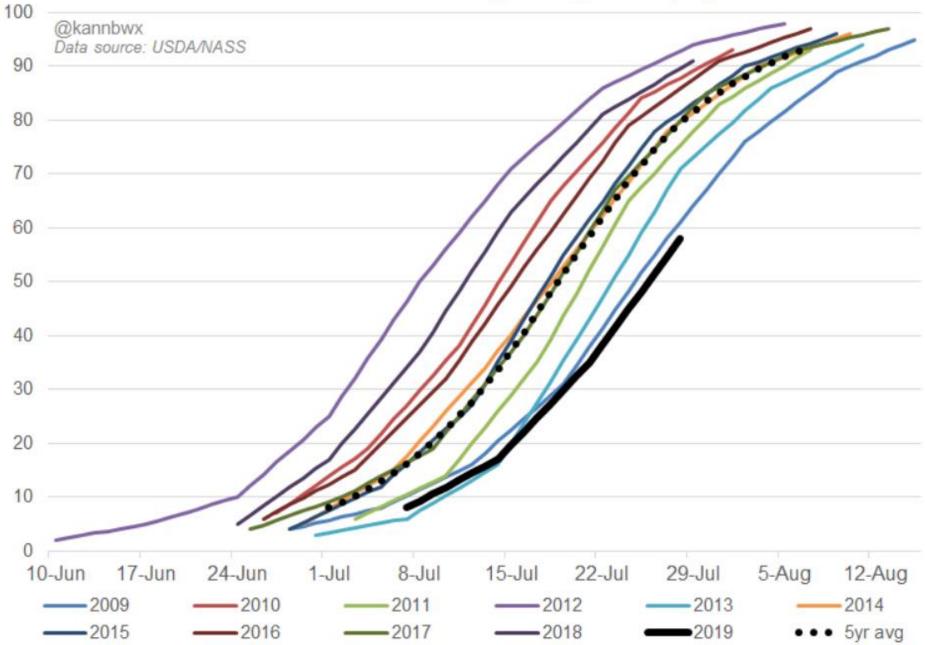
Joseph Kerns

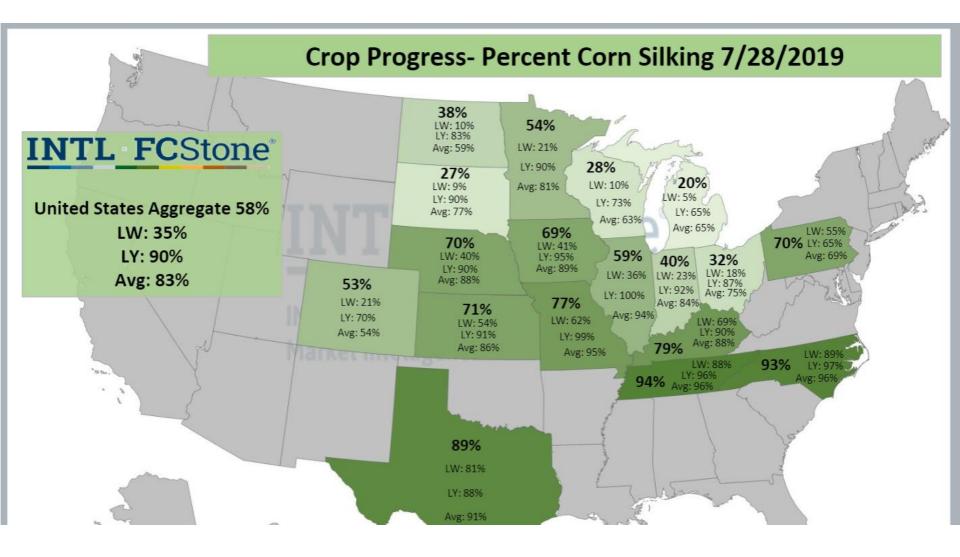
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The legal stuff

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U.S. Corn Silking Progress (%)





	USDA June 1, 2019	Average Estimate	Range of Estimate	INTL FCStone Estimate*	USDA June 1, 2018	USDA Mar 1, 2019
Corn	5.202	5.332	5.174-5.497	5.432	5.305	8.605
Soybeans	1.790	1.861	1.700-1.962	1.921	1.219	2.716
Wheat	1.072	1.100	1.077-1.160	1.105	1.099	1.591

USDA Quarterly Stocks (billion bushels)

USDA Prospective Plantings (million acres)

	USDA June 2019	Average Estimate	Range of Estimate	INTL FCStone Estimate*	USDA March 2019	USDA 2018 Final
Corn	91.7	86.662	82.0-89.8	88.80	92.8	89.1
Soybeans	80.0	84.355	81.0-86.5	86.50	84.6	89.2
All Wheat	45.6	45.654	44.5-46.1	45.38	45.8	47.8
Winter Wheat	31.8	31.577	31.5-32.1	31.50	31.5	32.5
Spring Wheat	12.4	12.595	12.0-13.0	12.23	12.8	13.2
Durum	1.4	1.476	1.30-1.82	1.65	1.42	2.07



June 2019 Reinterview States





Max U.S. Prevent Plant Acres by Crop (2007 – 2018)

-	
310,765	2011
3,616,862	2013
649,963	2015
31,275	2011
521,248	2015
189,139	2011
2,231,881	2015
11,140	2013
347	2010
4,117,096	2011
	3,616,862 649,963 31,275 521,248 189,139 2,231,881 11,140 347

Data source: USDA/FSA

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Total U.S. Prevent Plant Acres: Top 5

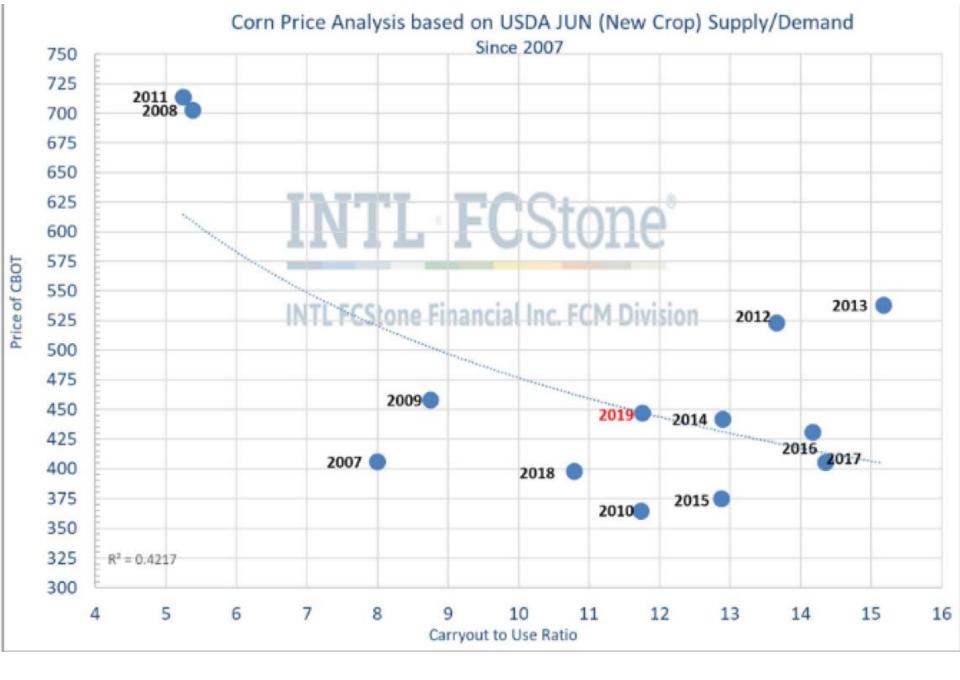
(millions of acres; 2007 - 2018)

	TOTAL	% corn	% soy	% wheat
2011	9.62	31%	15%	43%
2013	8.32	43%	20%	24%
2010	6.89	31%	20%	47%
2015	6.67	35%	33%	11%
2014	4.37	37%	19%	32%
2009	4.18	45%	22%	22%

Data source: USDA/FSA

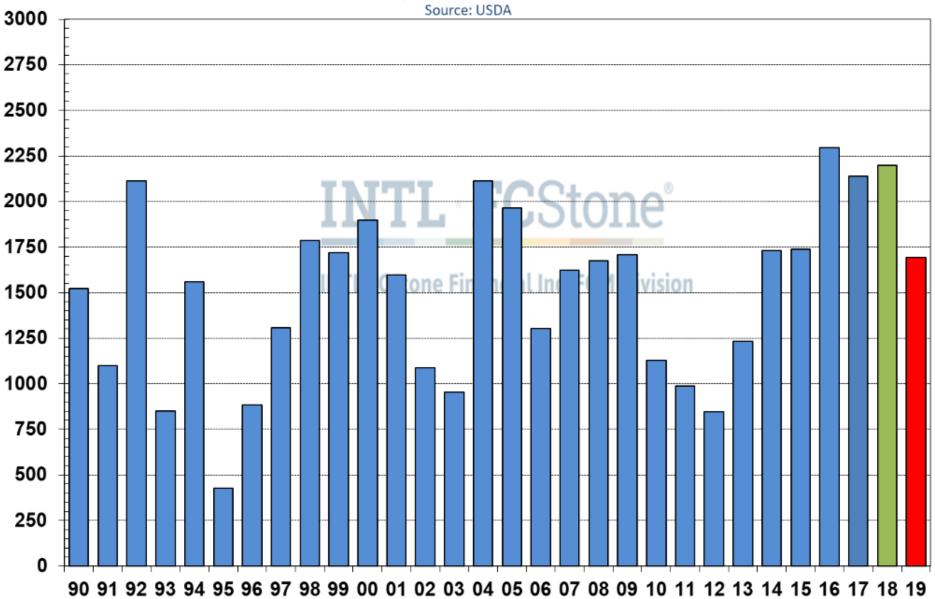
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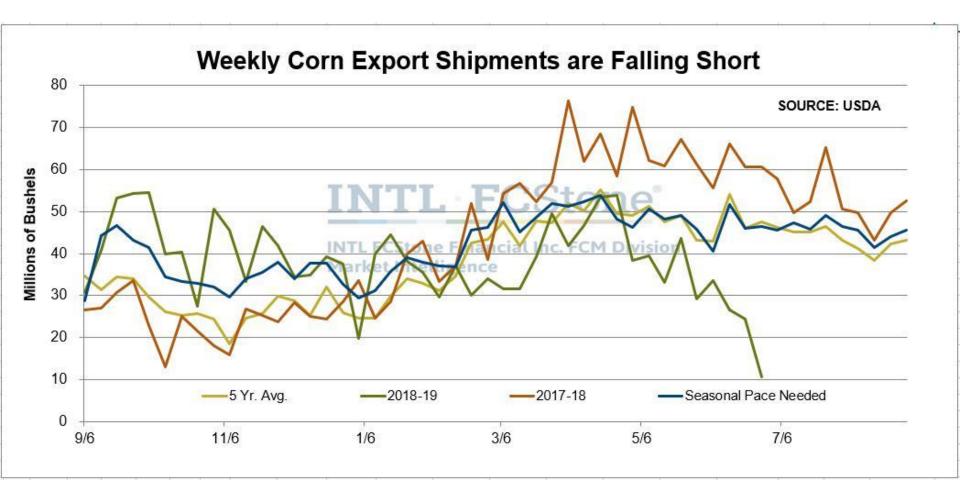
						USDA 19/20	wha	at if?
Millions of Bushels	14/15	15/16	16/17	17/18	18/19	July	19/20	19/20
Area Planted	90.6	88.0	94.0	90.2	89.1	91.7	86.7	84.7
Area Harvested	83.1	80.8	86.7	82.7	81.7	83.6	78.9	77.1
Percent Harvested	92%	92%	92%	92%	92%	91%	91%	91%
Yield Per Acre	171.0	168.4	174.6	176.6	176.4	166.0	160.0	150.0
Beginning Stocks	1,232	1,731	1,737	2,293	2,140	2,340	2,245	2,245
Production	14,216	13,602	15,148	14,609	14,420	13,875	12,624	11,562
Imports	32	68	57	36	35	50	150	200
Total Supply	15,479	15,401	16,942	16,939	16,595	16,265	15,019	14,007
Feed and Residual	5,280	5,114	5,470	5,304	5,275	5,175	5,100	5,000
Food, Seed and Industrial	6,601	6,648	6,885	7,056	6,880	6,930	6,650	6,450
Ethanol Usage	5,200	5,224	5,432	5,605	5,450	5,500	5,200	5,000
Total Domestic	11,881	11,763	12,355	12,360	12,155	12,105	11,750	11,450
Exports	1,867	1,901	2,294	2,438	2,100	2,150	1,600	1,200
Total Demand	13,748	13,664	14,649	14,799	14,255	14,255	13,350	12,650
Ending Stocks	1,731	1,737	2,293	2,140	2,340	2,010	1,609	1,357
Stocks to Usage	12.59%	12.71%	15.65%	14.46%	16.42%	14.10%	12.50%	11.97%
Carry-Out Months of Supply	1.51	1.53	1.88	1.74	1.97	1.69	1.50	1.29
Average Farm Price	\$3.70	\$3.61	\$3.36	\$3.36	\$3.60	\$3.70		



US Corn Carryout (million bushel)

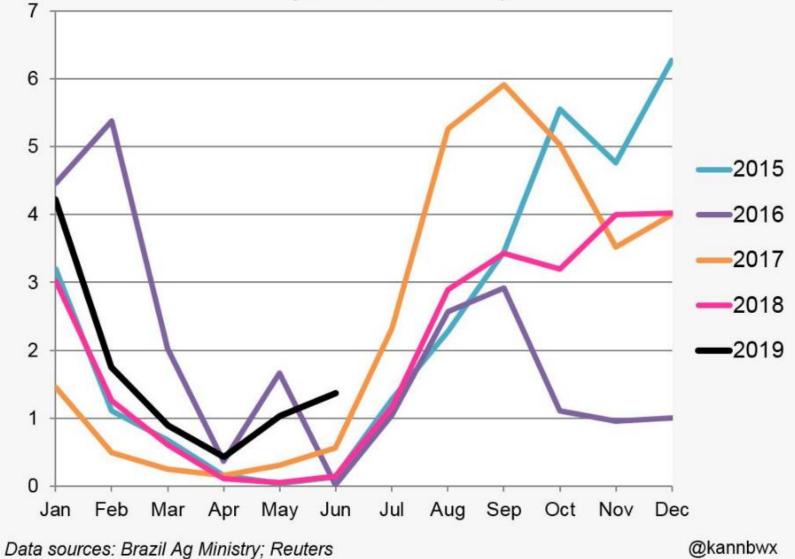
INTL FCStone





Monthly Brazil Corn Exports

(millions of tonnes)



Ukraine Corn Production (mmt)

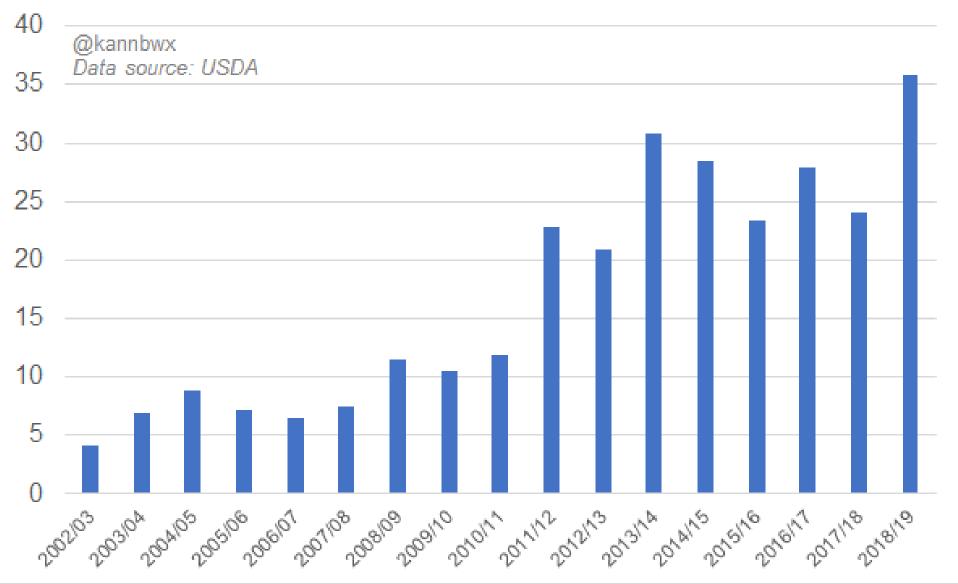
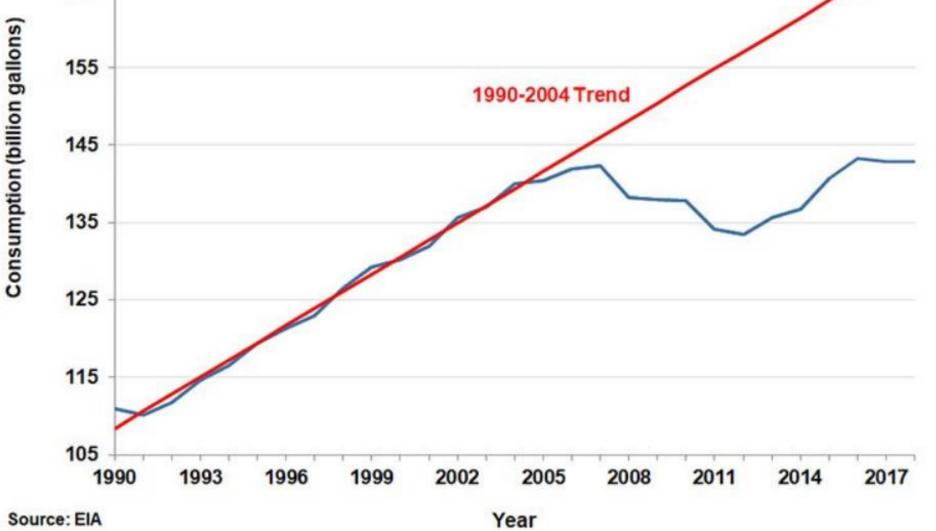
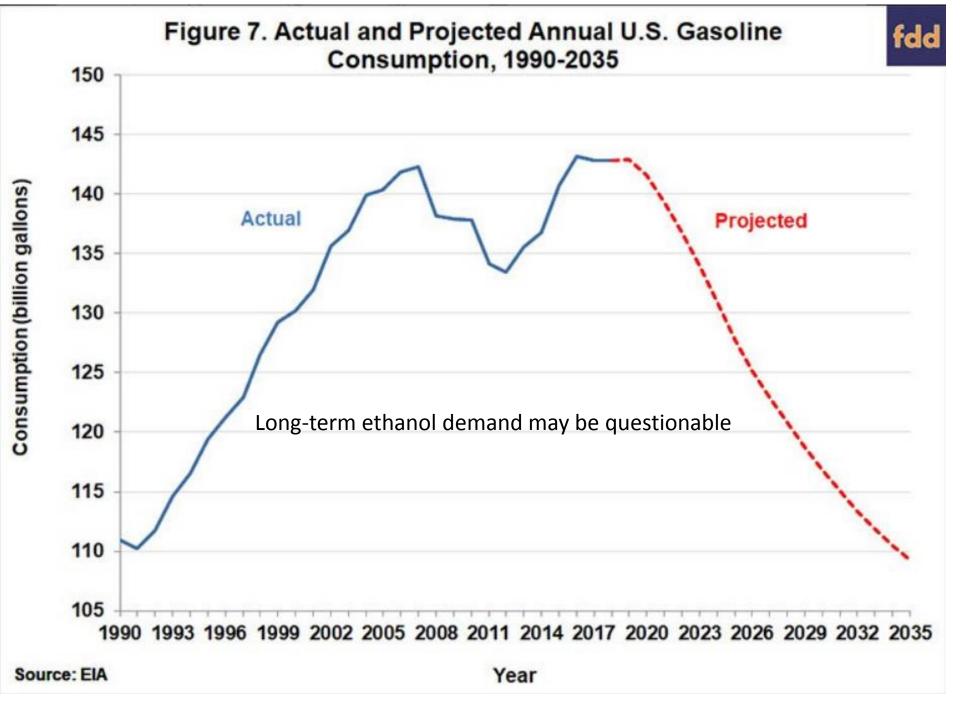


Figure 4. Annual U.S. Gasoline Consumption, 1990-2018 175 165 The reason we have ethanol to begin with...... 155





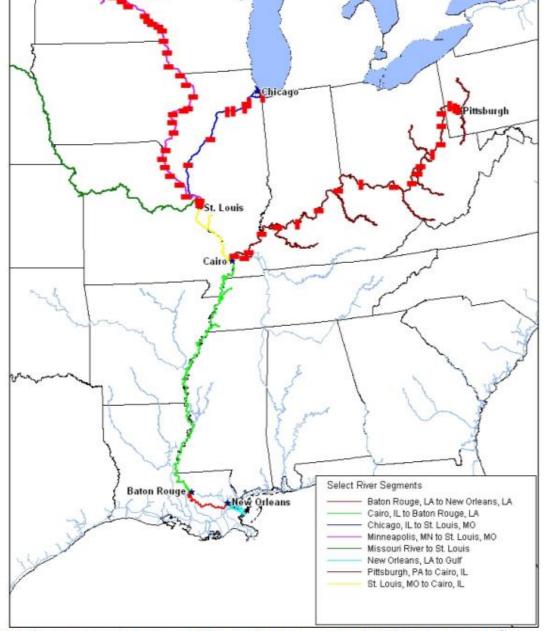


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• Remember, our CME is an export based derivative.

- Importing ٠ country value
- Ocean freight
- Barge freight
- We "back into" Chicago values, then basis does the rest

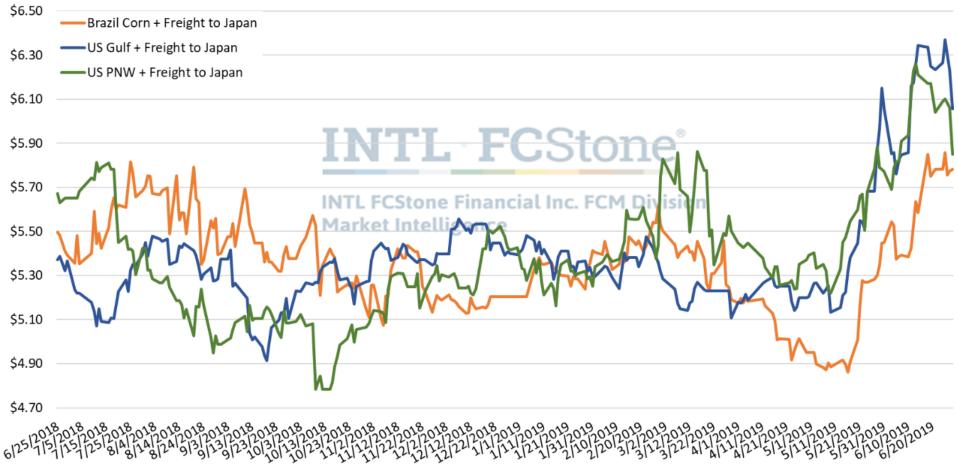




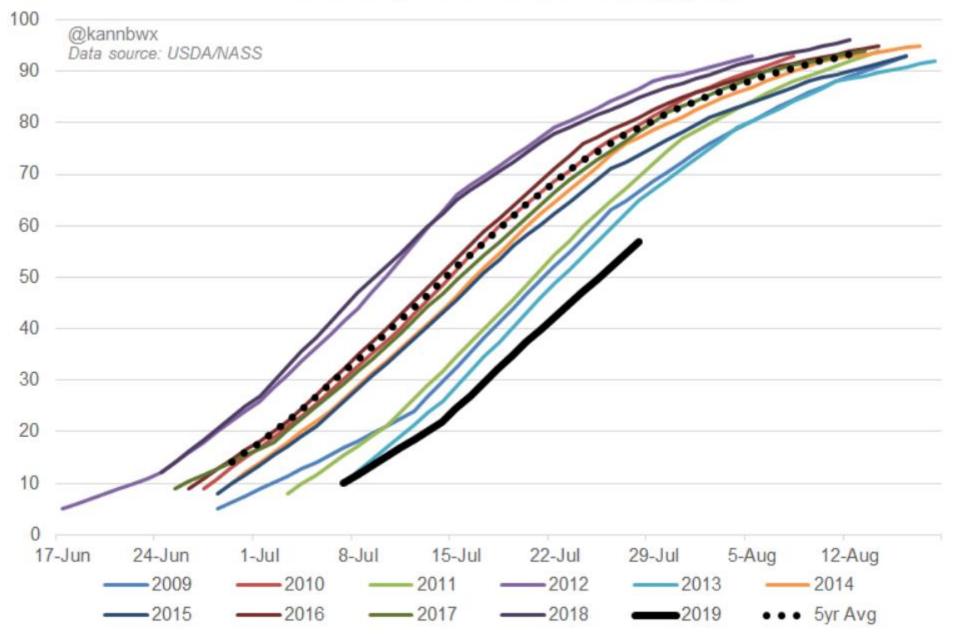
Notes: The eight river segments represent the main areas occupying river transport of corn, soybean and wheat.

US Gulf vs Brazil Corn Delivered to Japan

Source: Bloomberg & INTL FCStone



U.S. Soybeans Blooming (%)



U.S. Soybean Progress 2019

(percent blooming)

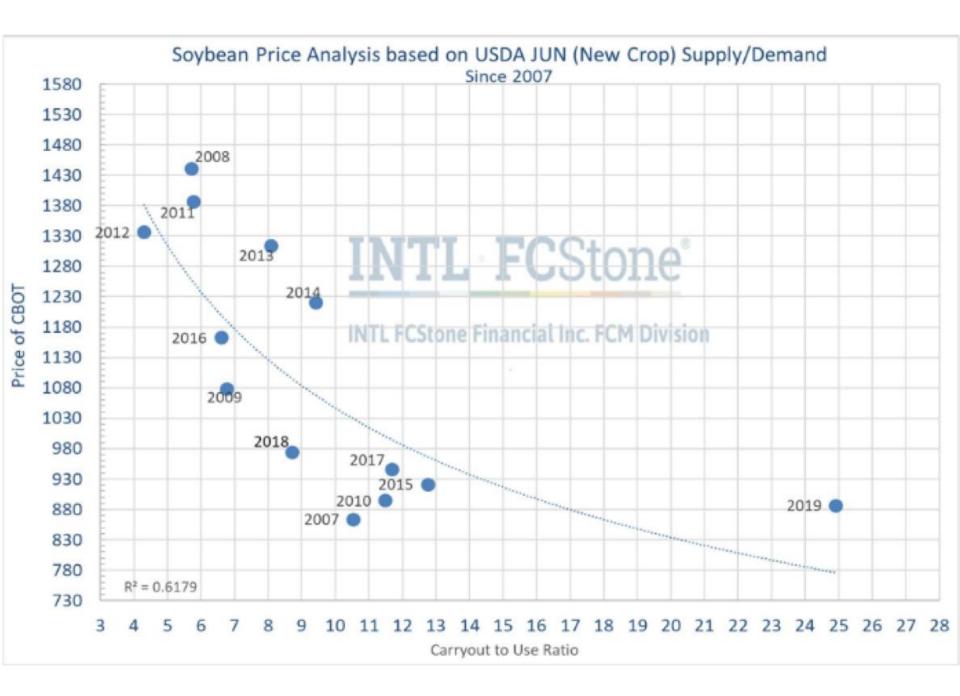
	••			July 14
	July 28	5yr Avg	delta	delta
Arkansas	82	89	-7	-9
Illinois	52	83	-31	-42
Indiana	37	79	-42	-44
lowa	65	84	-19	-26
Kansas	40	66	-26	-20
Kentucky	51	57	-6	-7
Louisiana	95	96	-1	-4
Michigan	42	76	-34	-30
Minnesota	69	85	-16	-34
Mississippi	88	88	0	1
Missouri	38	62	-24	-22
Nebraska	66	83	-17	-26
North Carolina	45	56	-11	-10
North Dakota	71	85	-14	-31
Ohio	41	76	-35	-28
South Dakota	53	80	-27	-18
Tennessee	68	74	-6	-3
Wisconsin	48	75	-27	-33
U.S. TOTAL	57	79	-22	-27

Data source: USDA/NASS

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US Soybean Supply and Demand

Millions of Acres						19/20 USDA Proj
Millions of Bushels	14/15	15/16	16/17	17/18	18/19	July
Acres Planted	83.3	82.7	83.5	90.2	89.2	80.0
Acres Harvested	82.6	81.7	82.7	89.5	88.1	79.3
Percent Harvested	99%	99%	99%	99%	99%	99%
Yield Per Harvested Acre	47.5	48.0	52.0	49.3	51.6	48.5
Beginning Stocks	92	191	197	302	438	1,050
Production	3,927	3,926	4,296	4,412	4,544	3,845
Imports	33	24	22	22	17	20
Total Supply	4,052	4,140	4,515	4,735	4,999	4,914
Crushings	1,873	1,886	1,901	2,055	2,085	2,115
Exports	1,842	1,942	2,166	2,129	1,700	1,875
Seed	96	97	105	104	93	96
Residual	50	18	41	9	72	34
Total Demand	3,862	3,944	4,213	4,297	3,949	4,120
Ending Stocks	191	197	302	438	1,050	795
Average Farm Price	\$10.10	\$8.95	\$9.47	\$9.33	\$8.50	\$8.40
Stocks to Usage	4.95%	4.99%	7.17%	10.20%	26.58%	19.29%



Value of U.S. Agricultural Products Exported to China in 2017

(millions of U.S. dollars)

Soybeans	\$12,253
Forest Products (lumber, logs, etc)	\$3,194
Fish Products (salmon, cod, etc)	\$1,232
Cotton	\$978
Hides & Skins	\$945
Sorghum	\$839
Pork & Pork Products	\$662
Dairy Products (whey, milk, etc)	\$577
Intermediate Products (starch, flour, oils, etc)	\$424
Wheat	\$351
Everything else	\$2,564
GRAND TOTAL	\$24,019

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Value of U.S. Agricultural Products Exported to China in 2018

(millions of U.S. dollars)

Soybeans	\$3,145
Forest Products (lumber, logs, etc)	\$2,868
Fish Products (salmon, cod, etc)	\$1,054
Cotton	\$924
Hides & Skins	\$607
Pork & Pork Products	\$571
Sorghum	\$530
Dairy Products (whey, milk, etc)	\$500
Intermediate Products (starch, flour, oils, etc)	\$473
Tree Nuts	\$328
Everything else	\$2,207
GRAND TOTAL	\$13,208

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U.S. Soybean Exports: Sept to Feb

(Top destinations; 1,000 tonnes)

	2018/19	YOY
China	3,941	-85%
Mexico	2,515	36%
Argentina	2,050	n/a
Netherlands	1,909	74%
Spain	1,733	137%
Egypt	1,675	150%
Indonesia	1,307	20%
Japan	1,280	15%
Taiwan	1,212	27%
Thailand	1,105	-4%
Pakistan	1,008	15%
European Union	6,199	132%
Non-China	23,455	69%
TOTAL	27,396	-31%
Data source: U.S. Census Bureau		@kannbwx

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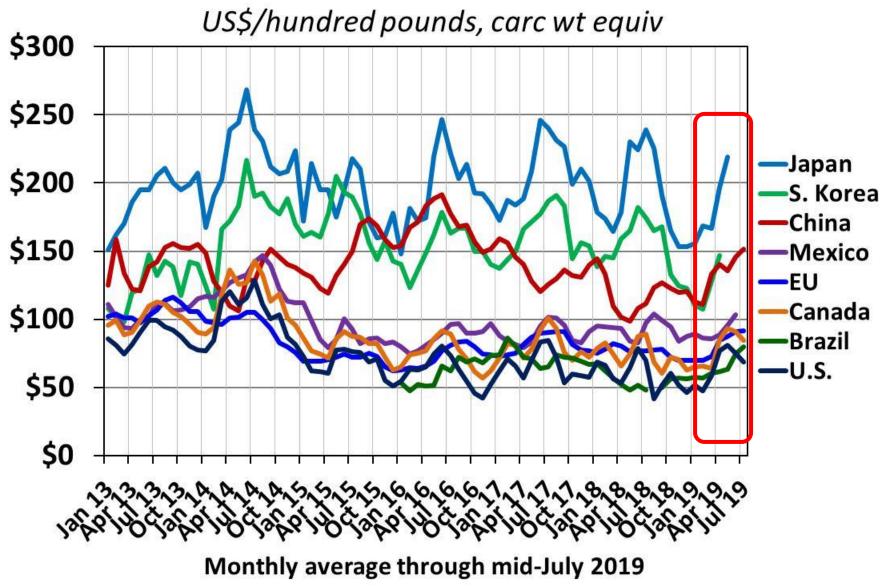
Let's do some cowboy math.....

,000 MMT

Chinese Production	55,000
World Pork Trade	9,000
World Beef Trade	11,000
World Chicken Trade	12,000
Chinese production loss	25% = 14,000
	40% = 22,000
25% of world	8,000
50% of world	16,000
75% of world	24,000

No matter how you allocate trade, it is difficult to solve the Chinese shortfall, I just do not think we have felt it......yet

Global Hog Prices



Source: China MARA, JCI, KMTA, ALIC, BPEX, USDA, Porcimex, Cepea,

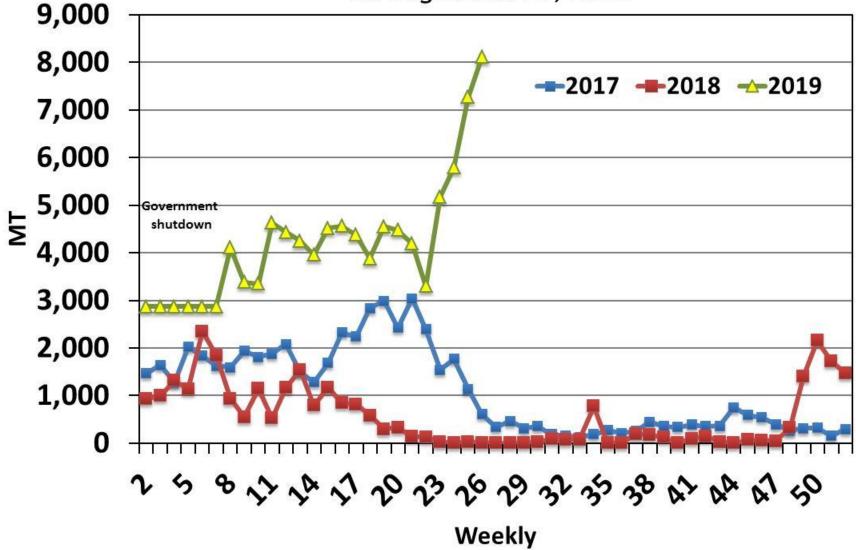
Hogs (Shanghai)



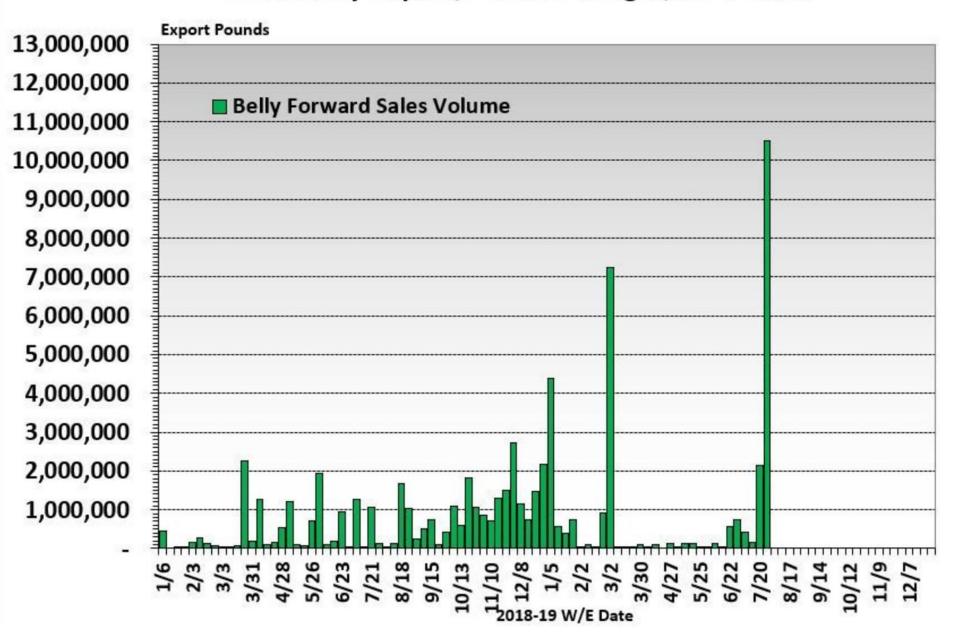


Weekly U.S. Pork Exports to China

through June 27, 2019

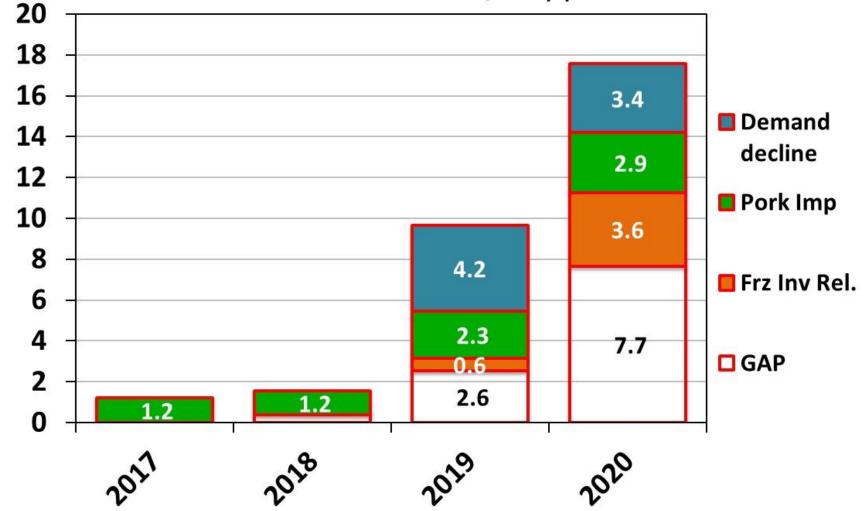


Weekly USA Pork Belly Forward Sales Mandatory Report, Product Weight, 2018-2019

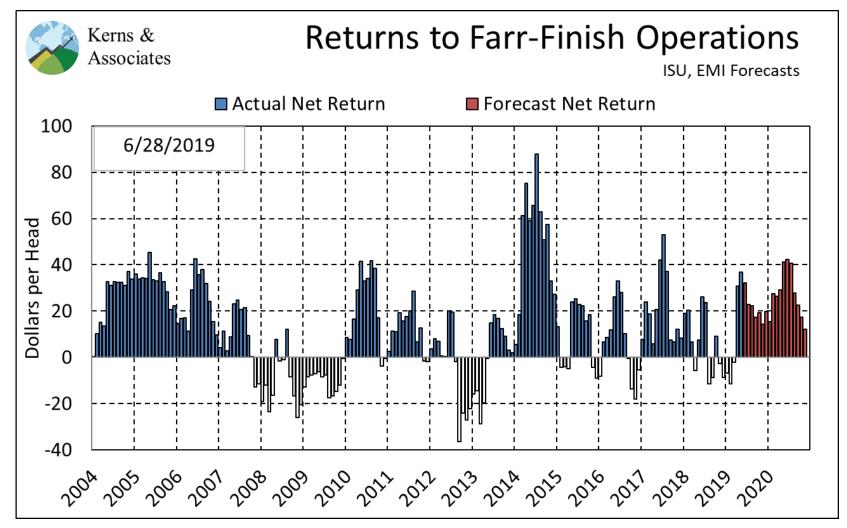


China Pork Production GAP

million metric tons, shipped wt



Are we too greedy? - '19 and '20 total is near \$500; '04-'05 and '14 were ~\$600

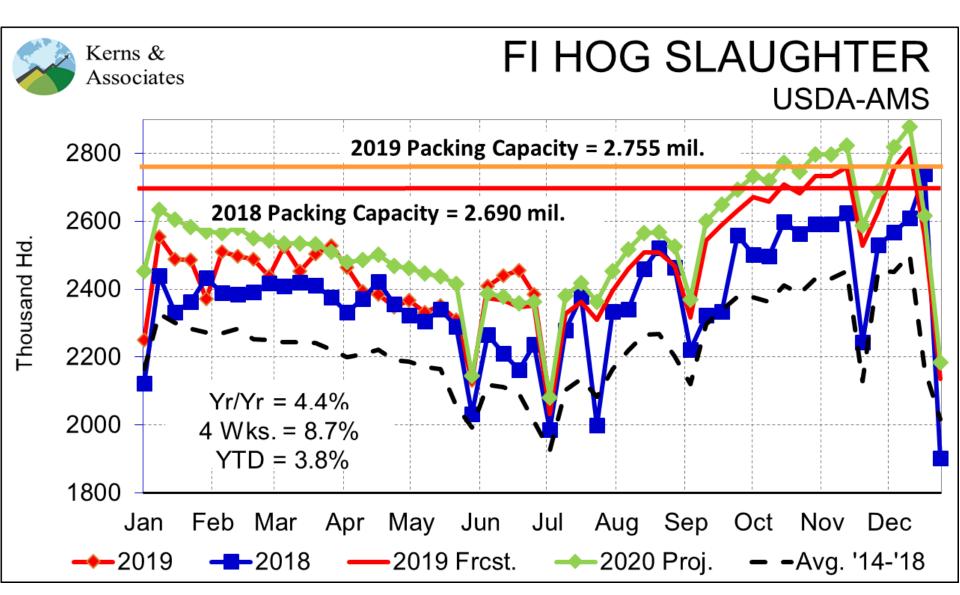


Calculation is based on selling one pig per month each month

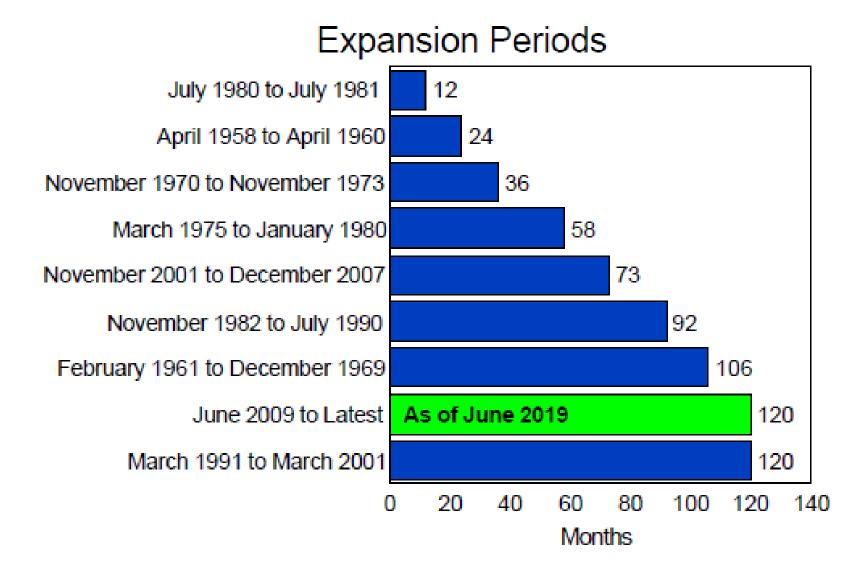
June Hogs & Pigs: USDA apparently caught the anomalies . . .

USDA QUARTERLY HOGS & PIGS REPORT					
June 27, 2019					
Category	2018	2019	'19 as pct of '18	Pre- Report Est's ¹	Actual minus Est.
Inventories on June 1					
All hogs and pigs	72,866	75,520	103.6	103.0	0.6
Kept for breeding	6,320	6,410	101.4	102.1	-0.7
Kept for marketing	66,546	69,111	103.9	103.1	0.8
Under 50 lbs.	21,327	22,019	103.2	102.6	0.6
50-119 lbs.	19,083	19,606	102.7	102.8	-0.1
120-179 lbs.	13,988	14,427	103.1	103.2	-0.1
180 lbs. and over	12,147	13,059	107.5	104.6	2.9
Farrowings					
Mar-May sows farrowed	3,100	3,108	100.3	101.7	-1.4
Jun-Aug Intentions	3,200	3,185	99.5	101.3	-1.8
Sep-Nov Intentions	3,174	3,175	100.0	102.1	-2.1
Mar-May Pig Crop	32,942	34,177	103.7	102.6	1.1
Mar-May pigs saved per litter	10.63	11.00	103.5	100.8	2.7
*Thousand head ** Thousand Litters		¹ Source: Urner Barry			

New packing capacity will "save" us this year and next



THIS RECOVERY: A GOODIE BUT OLDIE!



Keys to success

- Recognize we are in a binary scenario
 - No ASF in the US = happy days
 - ASF in the US = liquidation
- Get on the right pricing matrix
 - NOT the 602
 - not a COP
 - I like the ISM or WCB or basis
 - I like big grids for bigger animals
- Right-size your system
 - ADG will come back into play
 - Racto where you can, alternatives when you can't
 - Saving the marginal pig will be more important
 - Wean pig values firm



Questions?

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