Corn Market Outlook & Strategies for 2018

Kansas Corn School

Hesston, Kansas

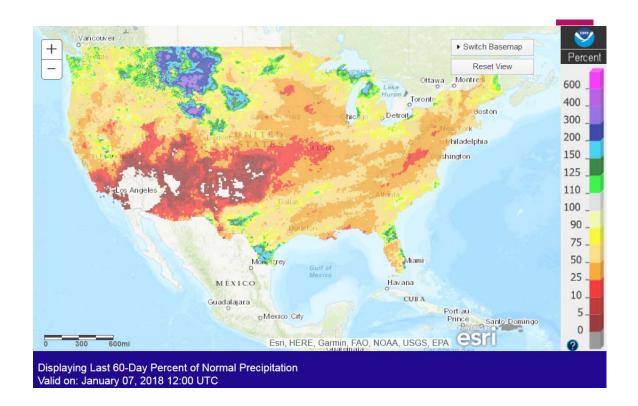
DANIEL O'BRIEN

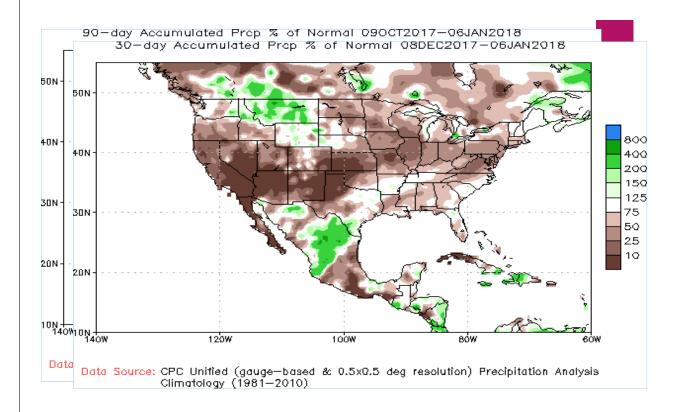
EXTENSION AGRICULTURAL ECONOMIST

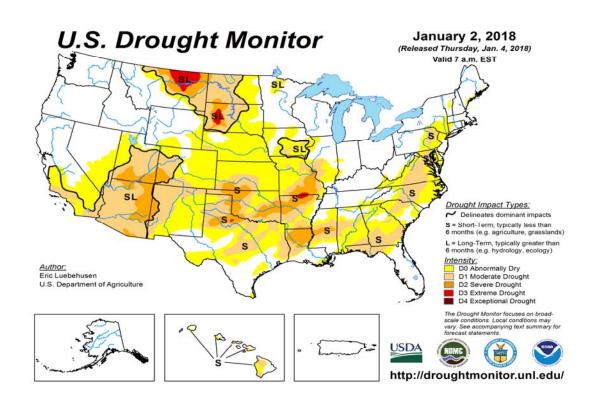


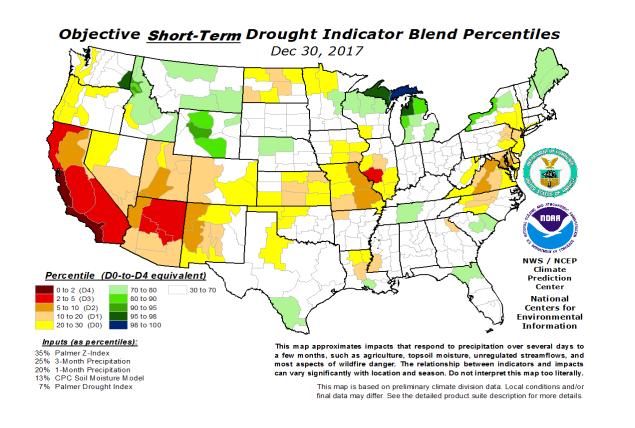
Department of Agricultural Economics













U.S. Corn Supply-Use

- Large Supplies & Stocks are limiting Feedgrain Price\$'s
- Low Price\$'s are supporting Corn Use

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• Livestock Feed ^{2017/18} = 5.575 bln bu (10 year high - vs 5.858 bb in 2007/08)
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o Ethanol ^{2017/18} = 5.525 bln bu (Record high - vs 5.439 bb last year)
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- o Other FSI $^{2017/18}$ = 1.460 bln bu (Record high vs 1.452 bb in 2016/17)
- o Exports $^{2017/18}$ = 1.925 bln bu (vs 2.293 bb in '16/17 & 1.901 in '15/16)

Karmas Sparre

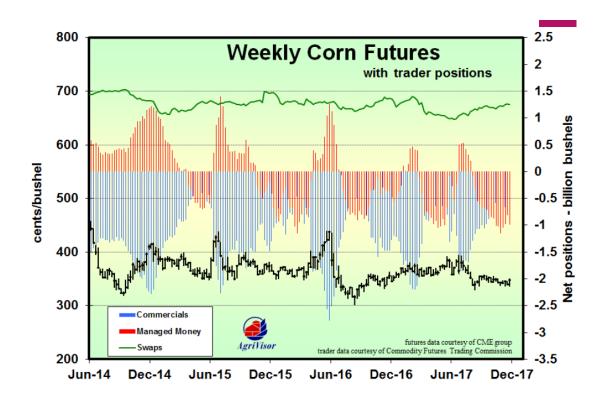
U.S. Corn Stocks & % Stocks/Use

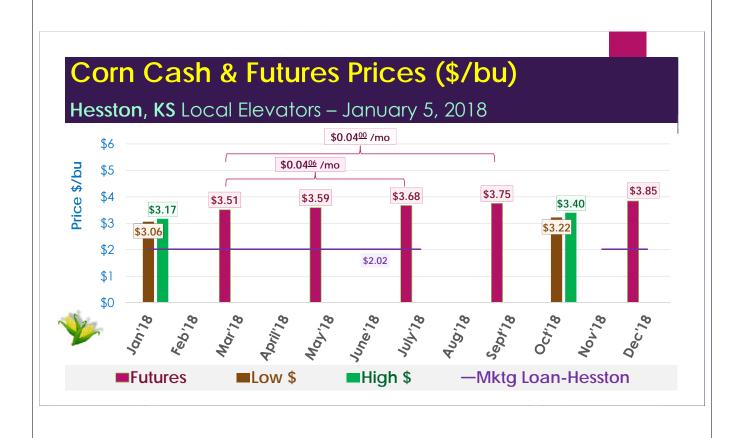
- Corn: "Large" Stocks & % Stx/Use
 - End Stocks $^{2017/18}$ \Rightarrow 2.437 bln bu (2nd highest since 1987/88)
 - o **% Stocks/Use** ^{2017/18} ⇒ 16.8% S/U (Highest since 2005/06)

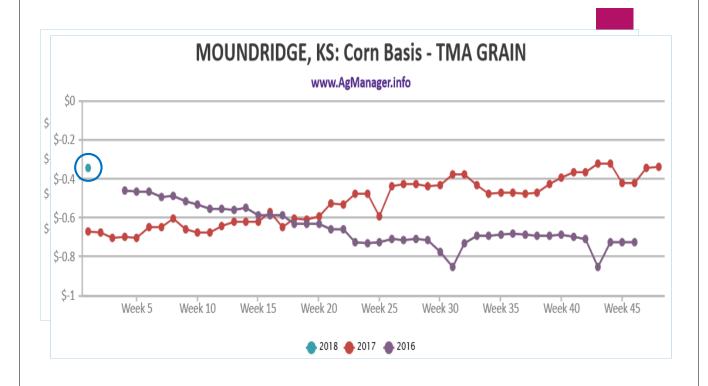
KANDAR STATE

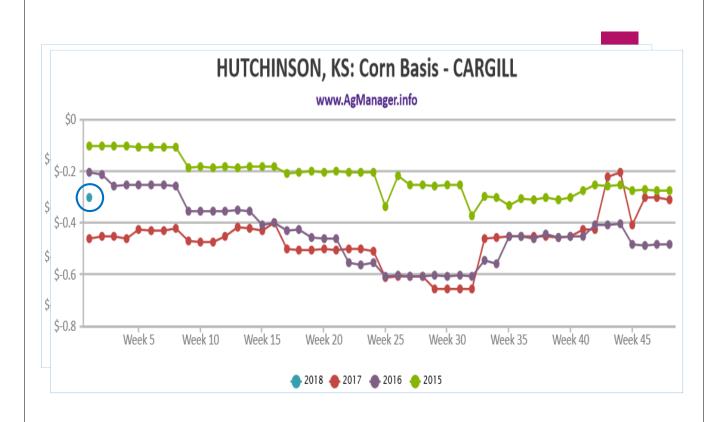


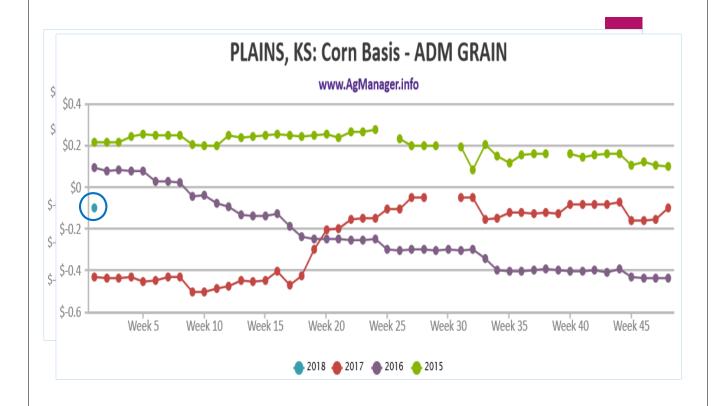


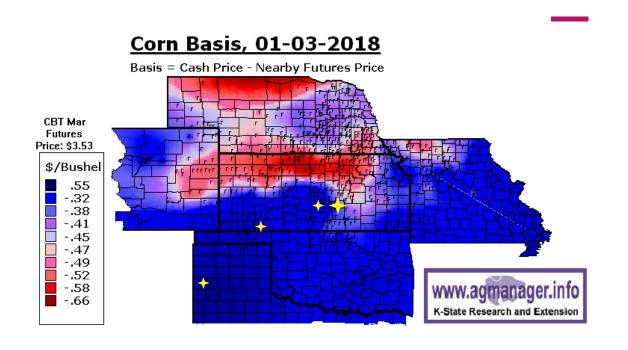




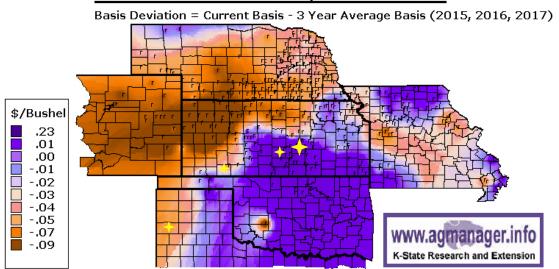








Corn Basis Deviation, 01-03-2018



Kansas Corn Seasonal Cash \$ Index

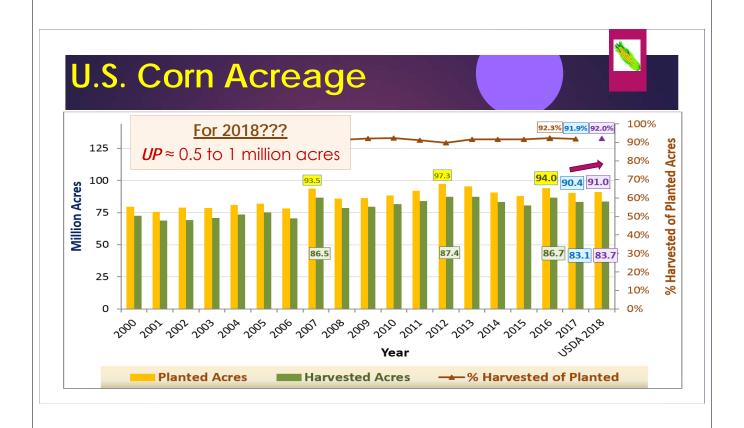
Monthly: Long Term Average & "New Crop" MY 2017/18 Forecast

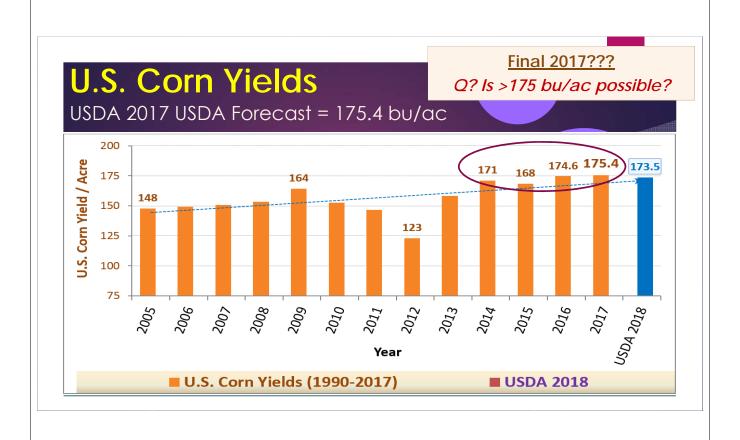


U.S. Corn Supply and Demand

			Change		
	2016/17	2017/18	from	Change from	
	estimate	forecast	November 9	2016/17	
Planted area (million acres)	94.0	90.4		-3.6	
Harvested area (million acres)	86.7	83.1		-3.6	
Yield (bushels per acre)	174.6	175.4		0.8	♣ Crop
		Millio	n bushels	L	-
Beginning stocks	1,737	2,295		558	BUT still
Production	15,148	14,578		-571	Large Supply
Imports	57	50		-7	9
Total supply	16,942	16,922		-20	
Feed and residual	5,463	5,575		112	
Food, seed, and industrial	6,891	6,985	50	94	
Ethanol	5,439	5,525	50	86	☆ Domestic Use
Domestic use	12,354	12,560	50	206	. &
Exports	2,293	1,925		-368	
Total use	14,647	14,485	50	-162	7 2/100/10
Ending stocks	2,295	2,437	-50	143	
		Pe	ercent	7	A 0/ Chaples/Upo
Stocks to use ratio	15.7	16.8	-0.4	1.2	企 % Stocks/Use
		Dollars	per bushel	}	- &
Average market price	3.36	2.85/3.55		-0.16	♣ Prices



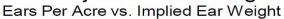


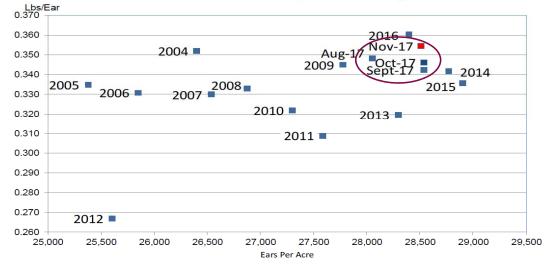






Corn Objective Yield Region



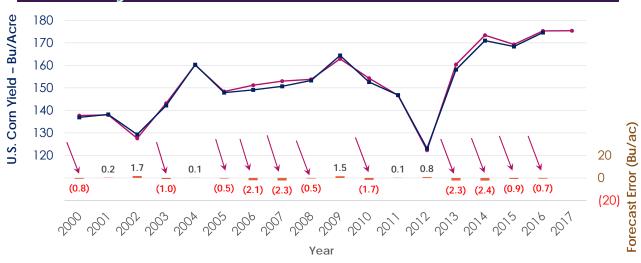


Implied Ear Weight = (Published Yield * 56) / Ears

USDA-NASS 11-9-17

U.S. Corn Yields: 2000-2017

Accuracy of November 1st USDA Forecasts



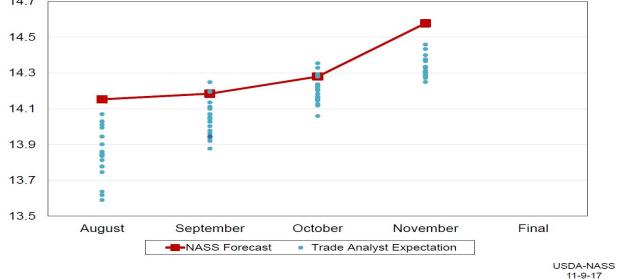
■Difference (bu/ac)

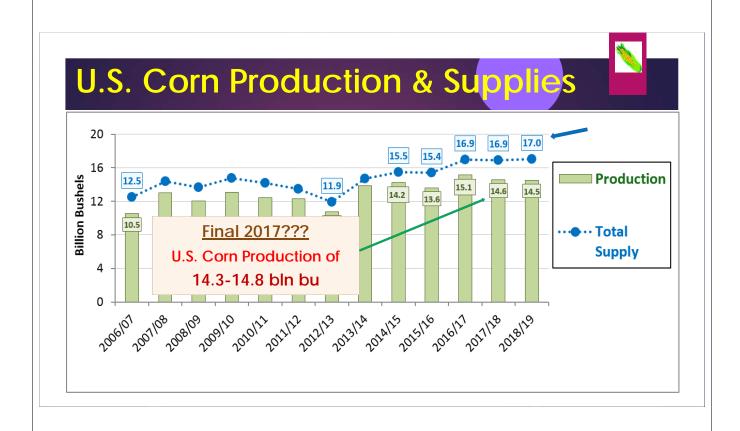
→November 1 USDA Forecast

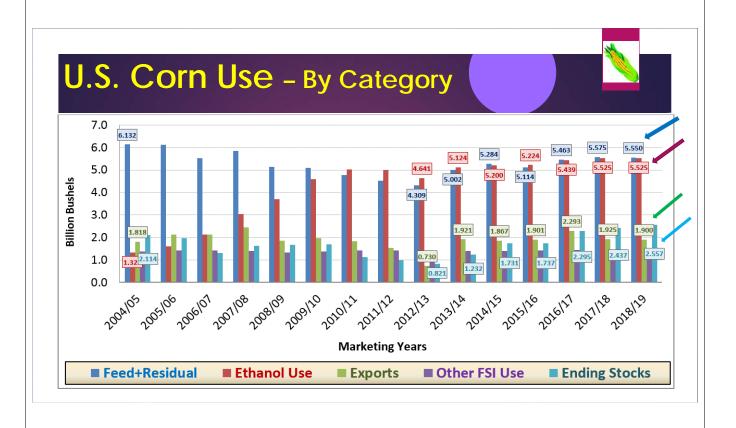
-Final Yield



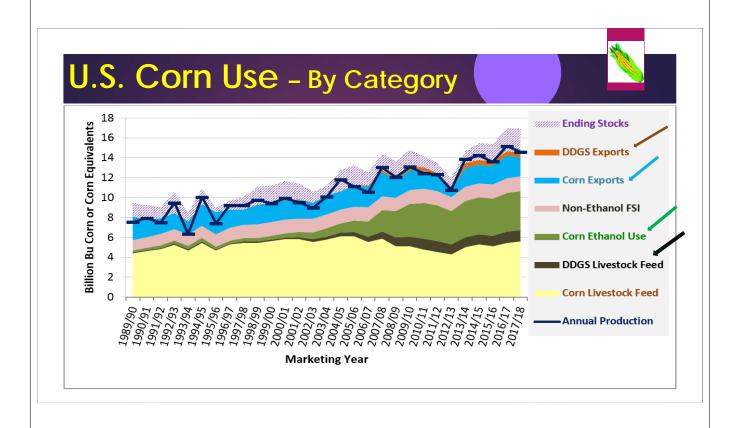






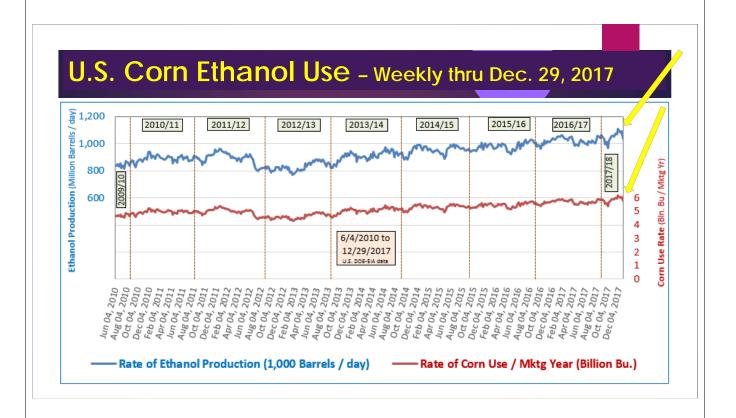


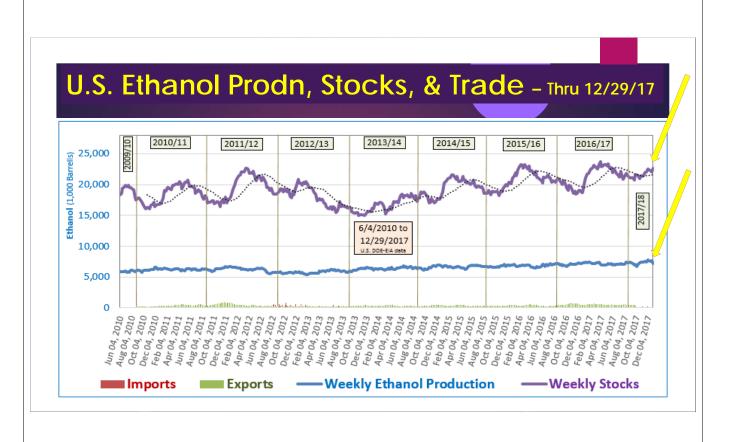


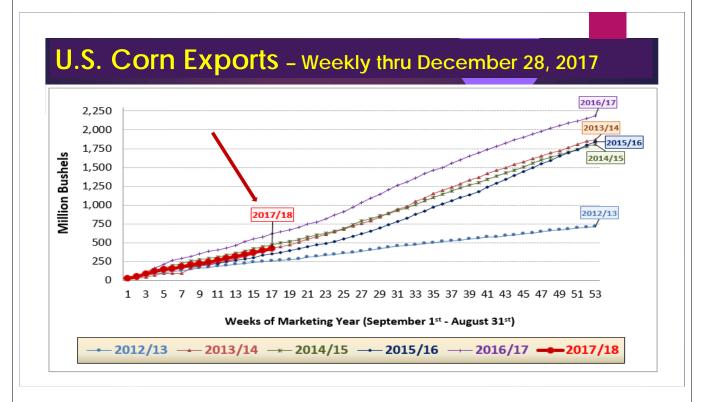


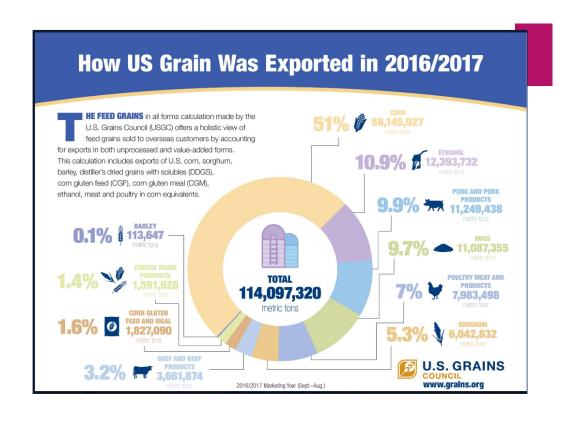
U.S. Meat Production and Prices

			2018		
	2017	2018	Change from	Change from	1
	forecast	forecast	November 9	2017	
Production		Billion poun	ıds		
Beef	26.30	27.59	-0.03	1.29	+4.9%
Pork	25.56	26.92	-0.01	1.36	+5.3%
Broilers	41.54	42.28		0.73	+1.8%
Turkey	6.00	6.03		0.03	+0.5%
Total meat	100.16	103.57	-0.04	3.42	
				+	3.4%
Prices		Dollars/cw	rt		
Steers	121.42	117.25		-4.17	
Hogs	50.38	47.50	2.50	-2.88	Pri
_		Cents/lb			⊢ t ded
Broilers	93.4	88.5		-4.9	J
Turkey	95.7	96.3	-3.0	0.5	



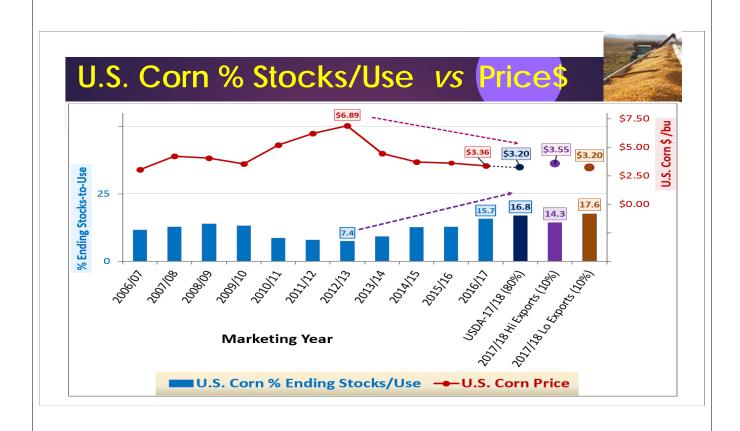


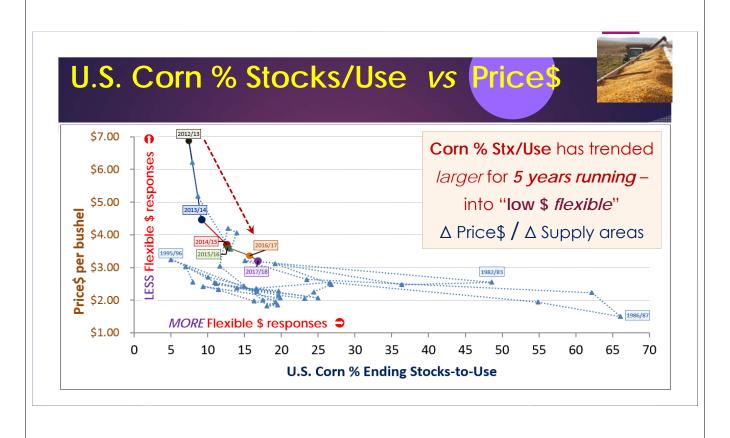


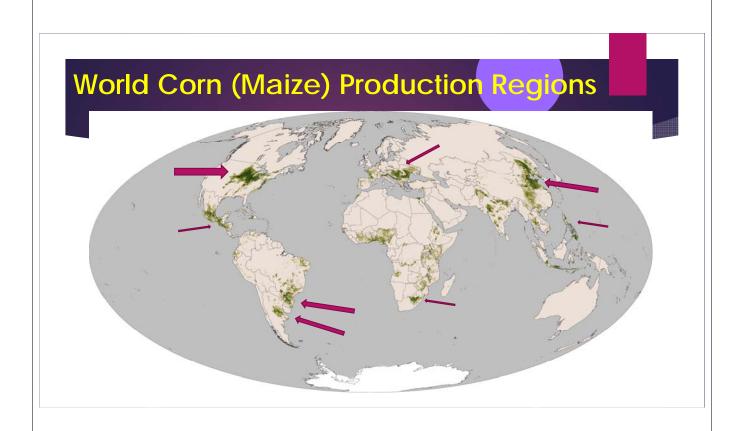


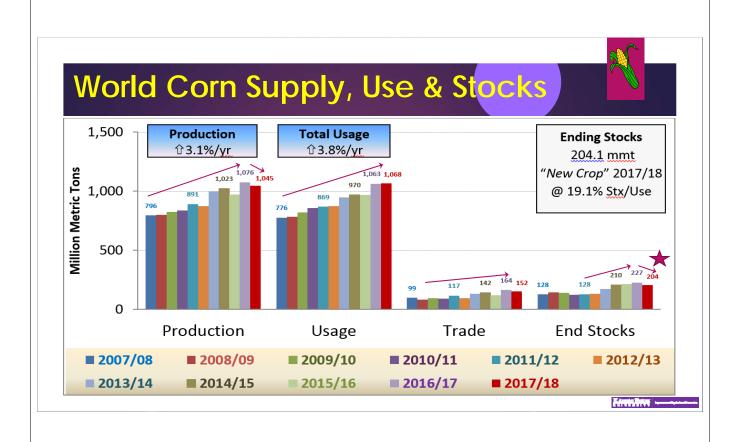






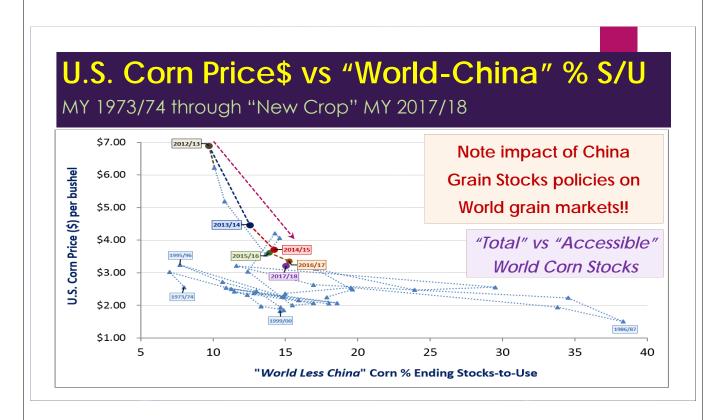






World Corn Production

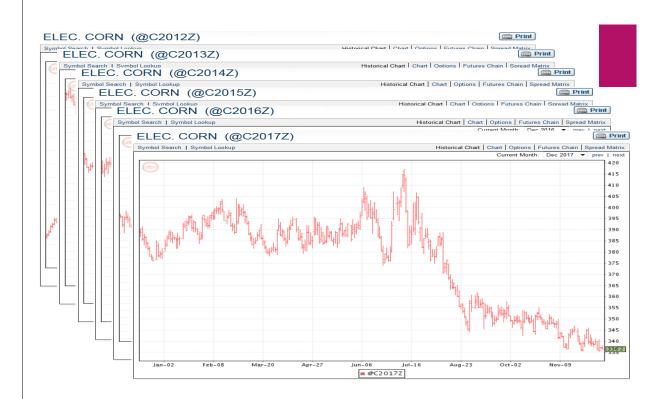
	2016/15	2017/10	Change	CI C	
Country or	2016/17	2017/18	from	Change from	
Region	estimate	forecast	November 9	2016/17	
		Mi	illion Tons		
World	1,075.5	1,044.7	0.85	-30.8	-
United States	384.8	370.3		-14.5	BUT still
Foreign	690.8	674.5	0.85	-16.3	<i>Large</i> Supply
Argentina	41.0	42.0		1.0	
Brazil	98.5	95.0		-3.5	China
Mexico	27.6	26.2		-1.4	₽ EU
Canada	13.2	14.1		0.9	<i> </i>
European Union	61.5	60.1	0.51	-1.4	
Serbia	7.6	4.0		-3.6	<i>↓ FSU-12</i>
FSU-12	47.3	43.2	-1.00	-4.0	
Ukraine	28.0	25.0		-3.0	<i> </i>
Russia	15.3	14.0	-1.00	-1.3	
South Africa	17.5	12.5		-5.0	
China	219.6	215.9	0.89	-3.7	☆ Canada
India	26.3	25.0		-1.3	



Probability of <u>Corn Futures</u> Trends

Examining 1990-2017 (Last 28 years)

- ► Likelihood of *Level-Higher* DEC Corn Futures??
 - o Trends through Spring-Summer (June-July)?
 - ⇒ Spring-Summer Price 1 occurred 28/28 Years (100%)
 - o Which direction did prices move by <u>Fall</u> (Nov-Dec)??
 - ⇒Price moving sideways / higher = 9/28 Years (32%)
 - ⇒Price moving <u>lower</u> = 19/28 Years (68%)



ELEC. CORN (Jul 2018) [10 Minute Delay]



Last	Change	%Chg	Open	High	Low	Previous	Volume	Exchange	Trade Time
367'4	0'0	0	367'0	367'4	366'6	367'4	18710	CBOT	01/07/18 19:55

Symbol: @CN18 Go Symbol Search | Symbol Lookup Strike Range: Near-the-Money ▼ Chart | Options | Futures Chain

Mar 2018 | May 2018 | Jul 2018 | Sep 2018 | Dec 2018 | Mar 2019 | May 2019 | Jul 2019 | Dec 2019 | Dec 2020 Jul 2018

Jul 2018 Options

Days l	Intil Expiration: 10	66																
			(Calls						Puts								
	Symbol	Price	Chg	Open	High	Low	Volume	Open Int	Strike		Symbol	Price	Chg	Open	High	Low	Volume	Open Int
	@CN18C3200	48'0s	-0'1				0	116	3200	2	@CN18P3200	0'5s	0'0				94	2088
	@CN18C3300	38'6	0'1	38'6	38'6	38'6	0	195	3300		@CN18P3300	1'3s	0'0	1'3	1'3	1'3	1012	3882
	@CN18C3400	30'3s	-0'2				0	112	3400		@CN18P3400	3'0s	0'0	3'1	3'1	3'1	76	4446
	@CN18C3500	23'4s	-0'2	23'4	23'4	23'4	20	530	3500	2	@CN18P3500	6'0s	-0'1	5'5	6'0	5'5	148	10350
	@CN18C3600	18'1s	-0'1	18'0	18'0	17'7	11	2522	3600		@CN18P3600	10'5s	0'1	10'6	10'7	10'0	490	8764
	@CN18C3700	14'0s	-0'1	14'2	14'2	13'7	804	12490	3700	❷	@CN18P3700	16'4s	0'2	16'4	16'4	16'2	722	6520
2	@CN18C3800	10'7	0'0	10'7	10'7	10'7	180	13784	3800		@CN18P3800	23'2s	0'1	23'3	23'3	22'7	369	6978
2	@CN18C3900	8'3s	-0'1	8'5	8'6	8'1	361	6882	3900		@CN18P3900	30'6s	0'1	30'5	30'5	30'3	213	3004
2	@CN18C4000	6'4	0.0	6'4	6'4	6'4	513	12540	4000		@CN18P4000	38'6s	0'1	37'2	38'6	36'6	440	2760
/	@CN18C4100	5'0s	0.0	5'3	5'3	4'7	57	6009	4100	2	@CN18P4100	47'2s	0'2				2	1723
∠	@CN18C4200	4'0s	0'1	3'7	3'7	3'7	1182	7131	4200	Z	@CN18P4200	56'2s	0'3				0	853

In the money At the money

Quotes generated on: Sun, Jan 7, 2018 8:15 PM CST

ELEC. CORN (Dec 2018) [10 Minute Delay]



Last	Last Change		%Chg Open High		Low	Previous	Volume	Exchange	Trade Time			
384'2	-0'2	-0'2 -0.07 383'6 384'4 383'6 384'4		384'4	7982	CBOT	01/07/18 19:54					
Symbol: @	CZ18 Go	Symbol S	Search Sym	bol Lookup	Strike	Range: Near-th	e-Money 🔻		Chart Options Futures Chain			

Mar 2018 | May 2018 | Jul 2018 | Sep 2018 | Dec 2018 | Mar 2019 | May 2019 | Jul 2019 | Dec 2019 | Dec 2020 Dec 2018 ▼

Dec 2018 Options

Days l	Jntil Expiration: 3	20																
					ı	Puts												
	Symbol	Price	Chg	Open	High	Low	Volume	Open Int	Strike		Symbol	Price	Chg	Open	High	Low	Volume	Open Int
	@CZ18C3300	56'3s	0.0				0	20	3300	2	@CZ18P3300	2'3s	0'0				0	2812
2	@CZ18C3400	48'0s	0'0				0	5	3400	2	@CZ18P3400	4'0s	0.0	4'1	4'1	4'1	118	3090
2	@CZ18C3500	40'6s	0.0				0	772	3500	2	@CZ18P3500	6'5s	0.0	6'5	6'5	6'5	43	13911
2	@CZ18C3600	34'6s	0.0	34'4	34'4	34'4	10	413	3600	2	@CZ18P3600	10'4s	0.0				145	13828
2	@CZ18C3700	29'4s	0.0				0	816	3700	2	@CZ18P3700	15'1s	0.0	15'1	15'3	15'1	101	8089
2	@CZ18C3800	25'3s	0'0	25'2	25'4	25'2	115	1934	3800	⊘	@CZ18P3800	20'7s	0'0	21'0	21'0	20'4	71	5999
1	@CZ18C3900	21'6s	0'0	20'7	22'0	20'7	140	6550	3900	2	@CZ18P3900	27'2s	0'0	27'4	27'4	27'2	45	8497
1	@CZ18C4000	18'4s	0'0	18'5	18'7	18'1	77	12772	4000	∠	@CZ18P4000	33'7s	0'0	33'4	33'4	33'4	2	5317
1	@CZ18C4100	15'7s	0'0	16'0	16'0	15'5	152	3389	4100	∠	@CZ18P4100	41'1s	0'0				0	2020
1	@CZ18C4200	13'2	-0'3	13'2	13'2	13'2	259	11554	4200	∠	@CZ18P4200	48'6s	0'0				0	1026
<u>~</u>	@CZ18C4300	11'5s	0'0	12'0	12'0	11'4	54	7519	4300	Z	@CZ18P4300	56'5s	0'0				0	1622

In the money At the money

Quotes generated on: Sun, Jan 7, 2018 8:16 PM CST

What "Old Crop" Corn Marketing Strategies are Likely to Work Best in 2018?

- ► For "Old Crop" 2017 Feedgrains
 - On-Farm Storage ⇒ Yes, <u>but</u> not until spring-summer 2018
 - Off-Farm Storage

 ⇒ Maybe, <u>but</u> will need larger 2018 rallies
 - Storage Hedge / Fwd Contract ⇒ Maybe ⇒ futures have "carry"!
 - Buy Puts or Marketing Loan ⇒ No Mktg Loans (Watch ♥ put costs)
 - Sell Cash & Buy Call Options
 ⇒ Watch narrower Basis (Yes post sales*)

What "New Crop" Corn Marketing Strategies are Likely to Work Best in 2018?

- ► For "New Crop" 2018 Feedgrains
 - Futures Hedge (HTA) ⇒ Yes, <u>but</u> not until spring-summer 2017

 - Buy Puts
 ⇒ Maybe @ spring/summer rallies
 - Marketing Loans
 ⇒ Be aware of Mktg Loan\$ vs Net Put\$
 - Fwrd Contract + Buy Calls ⇒ No if wide Basis (+ rally protection)

