July 2, 2019

Global Corn & DDGS Production, Supply, & Demand

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U.S. Grains Council



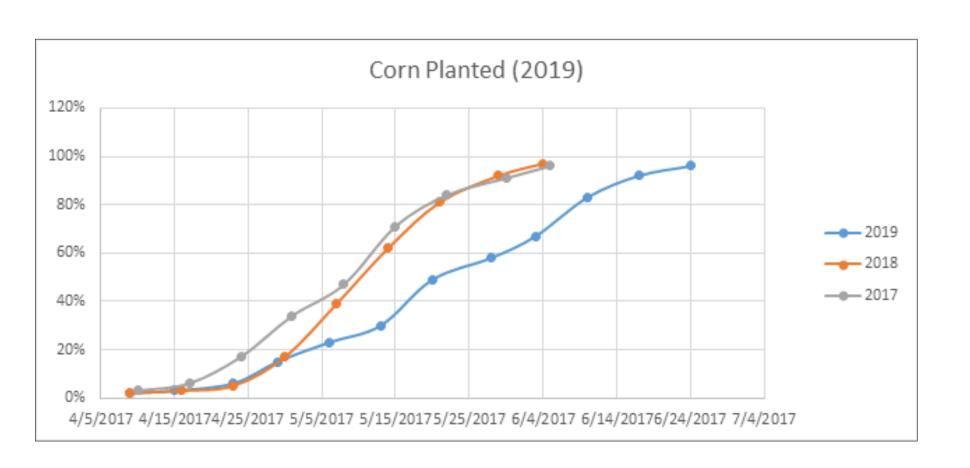
Corn Production, Supply, & Demand





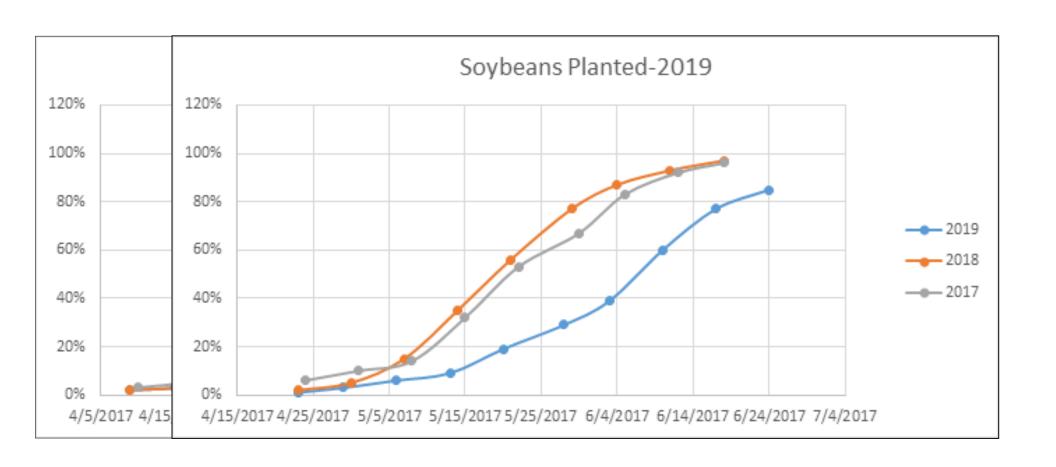
Plantings Down Across The Board





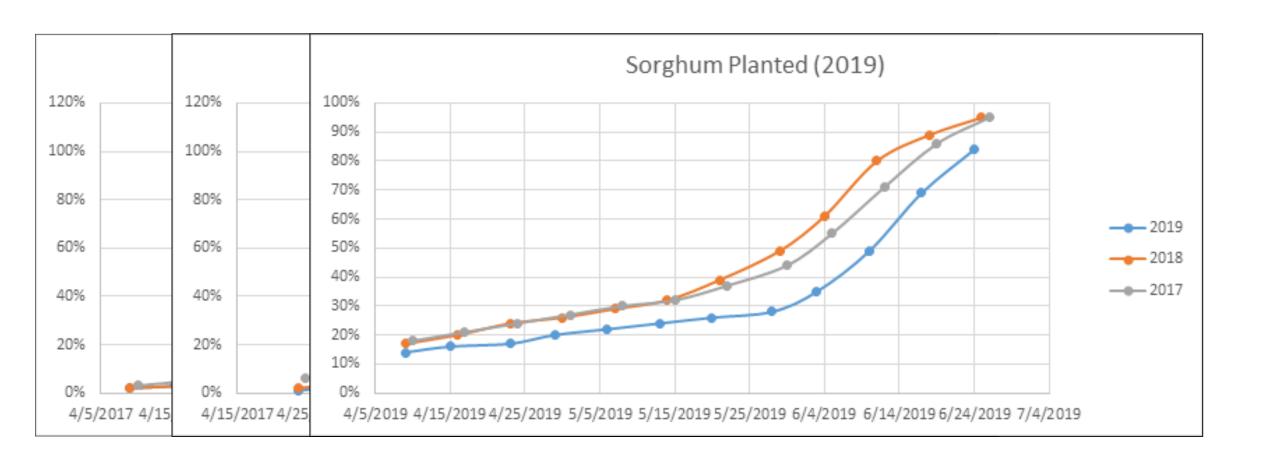
Plantings Down Across The Board





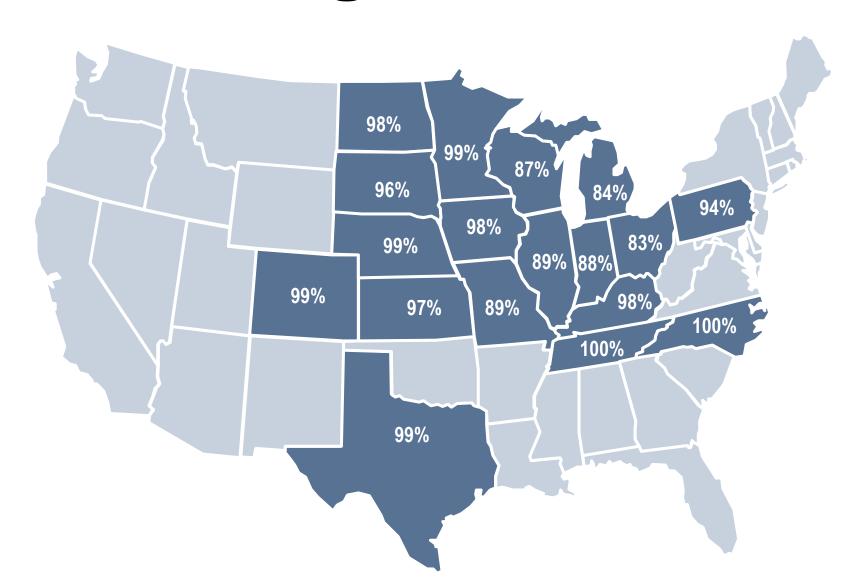
Plantings Down Across The Board





Corn Emerged As Of June 30





NATIONAL:

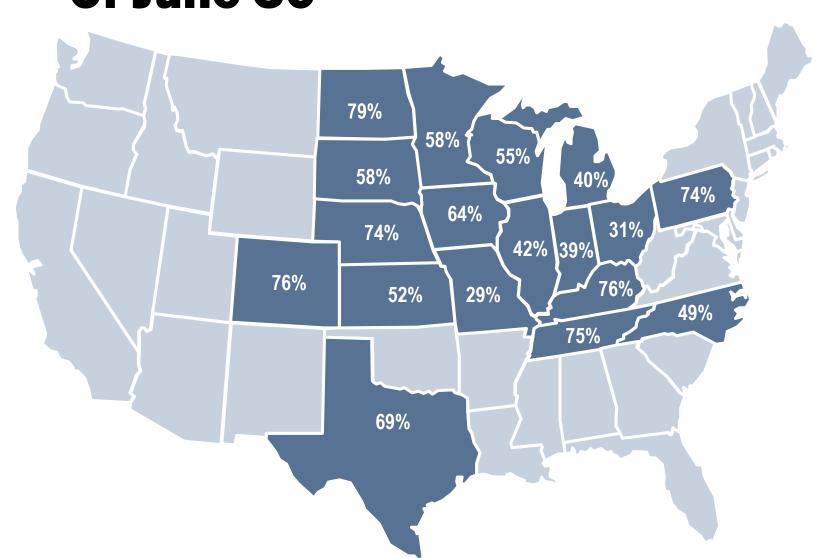
June 30, 2019: **94%**June 30, 2018: **100%**Five-Year Avg: **100%**

Note: These 18 states highlighted represent 92% of U.S. corn acreage in 2018.

Source: USDA, July 1, 2019

Corn in Good/Excellent Condition As Of June 30





NATIONAL:

June 30, 2019: **56%** June 30, 2018: **76%**

Note: These 18 states highlighted represent 92% of U.S. corn acreage in 2018.

Source: USDA, July 1, 2019

Planting Troubles In U.S. Affect Supply U.S. GRAINS

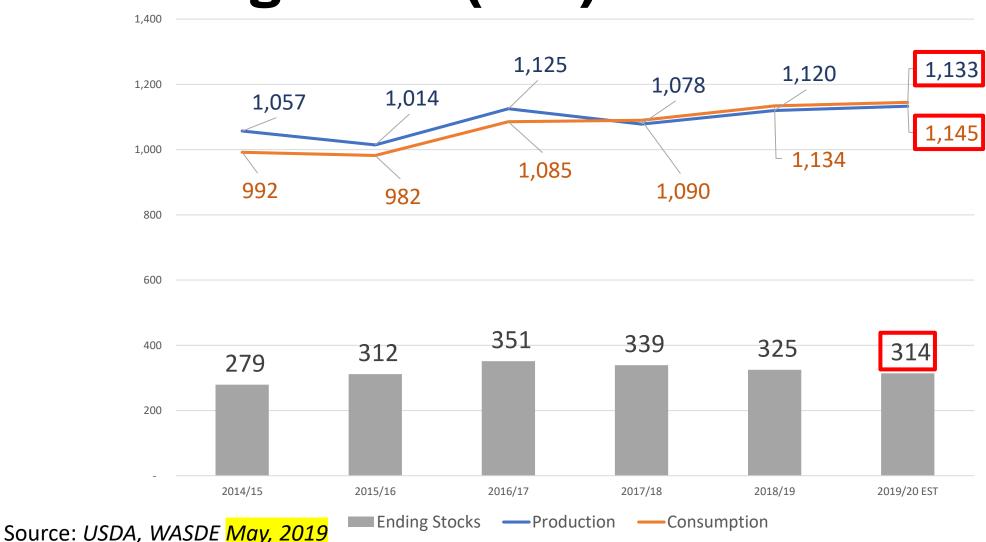


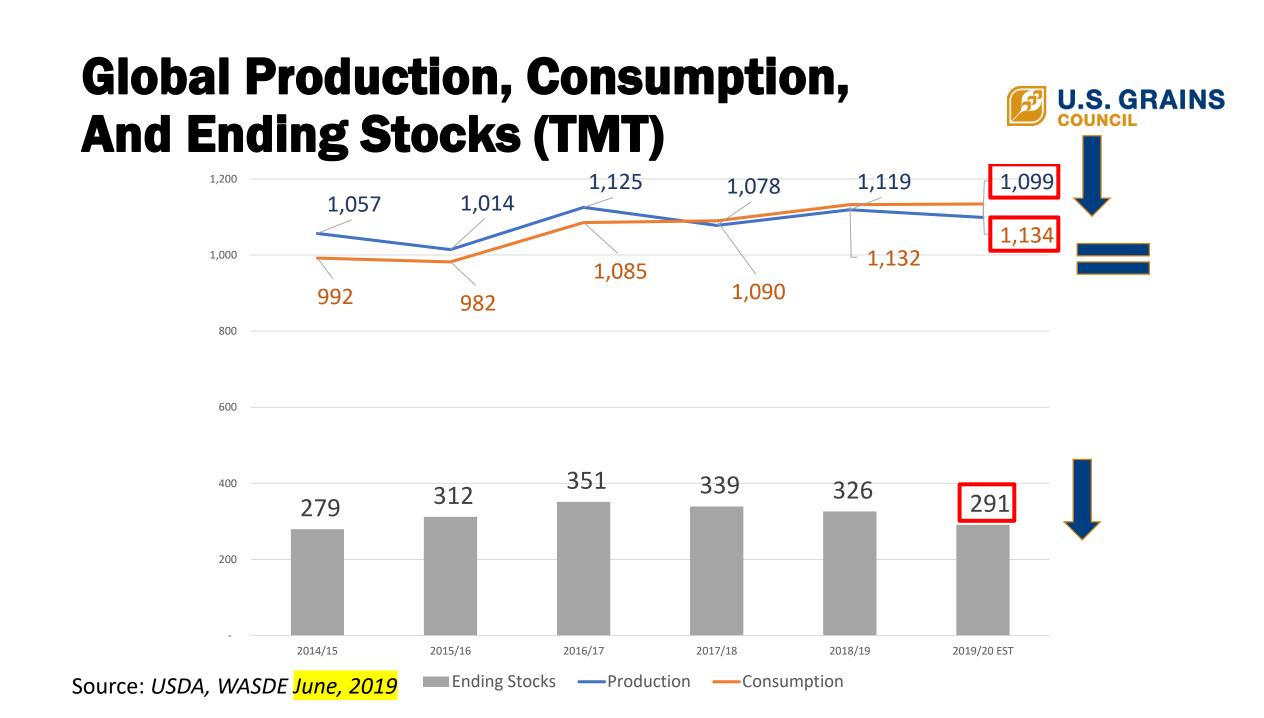
	2017/18	2018/19 Est.	2019/20 Proj.	2019/20 Proj.					
CORN			May	Jun					
		Million Acres							
Area Planted	90.2	89.1	92.8 *	89.8 *					
Area Harvested	82.7	81.7	85.4 *	82.4 *					
		Bushels							
Yield per Harvested Acre	176.6	176.4	176.0 *	166.0 *					
		Million Bushels							
Beginning Stocks	2,293	2,140	2,095	2,195					
Production	14,609	14,420	15,030	13,680					
Imports	36	35	35	50					
Supply, Total	16,939	16,595	17,160	15,925					
Feed and Residual	5,304	5,300	5,450	5,150					
Food, Seed & Industrial 2/	7,056	6,900	6,950	6,950					
Ethanol & by-products 3/	5,605	5,450	5,500	5,500					
Domestic, Total	12,360	12,200	12,400	12,100					
Exports	2,438	2,200	2,275	2,150					
Use, Total	14,799	14,400	14,675	14,250					
Ending Stocks	2,140	2,195	2,485	1,675					
Avg. Farm Price (\$/bu) 4/	3.36	3.60	3.30	3.80					

Source: USDA, WASDE June, 2019

Global Production, Consumption, And Ending Stocks (TMT)



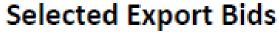


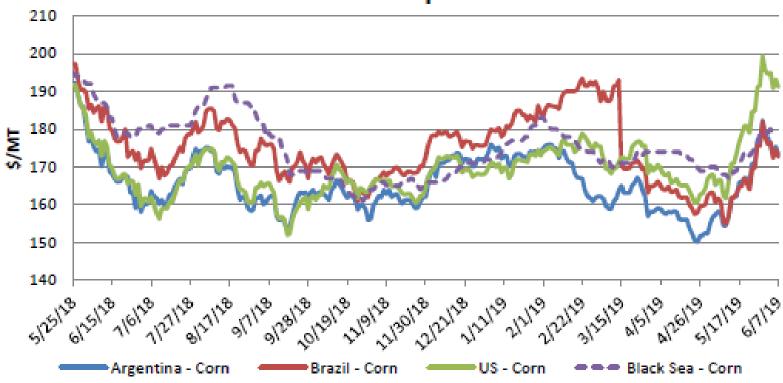


Market Responds To Planting Fears @ U.S. GRAINS



Market Responds To Planting Fears @ U.S. GRAINS





Source: IGC

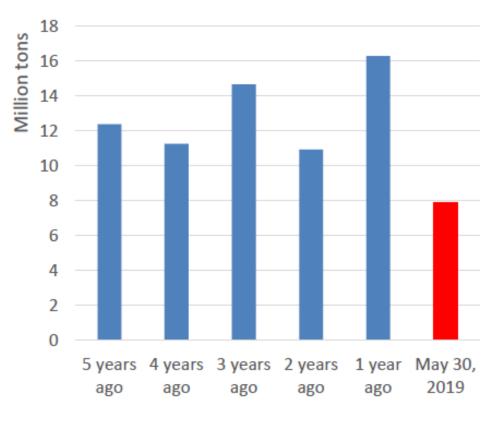
Rationed Exports



TRADE CHANGES IN 2019/20 (1,000 MT)

Country	Commodity	Attribute	Previous	Current	Change	Reason
Argentina	Corn	Exports	32,000	33,500	1,500	Larger exportable supplies
Brazil	Corn	Exports	34,000	35,000	1,000	Reflects strong second crop shipments after September 2019
Russia	Corn	Exports	4,500	5,000	500	Larger crop
United States	Corn	Imports	850	1,300	450	Reflects reported purchases from Brazil for delivery after September 2019
		Exports	58,000	55,000	-3,000	Smaller crop; strong domestic use
Zambia	Corn	Exports	400	150	-250	Smaller crop

U.S. Corn Outstanding Sales



Source: USDA, PS&D June, 2019

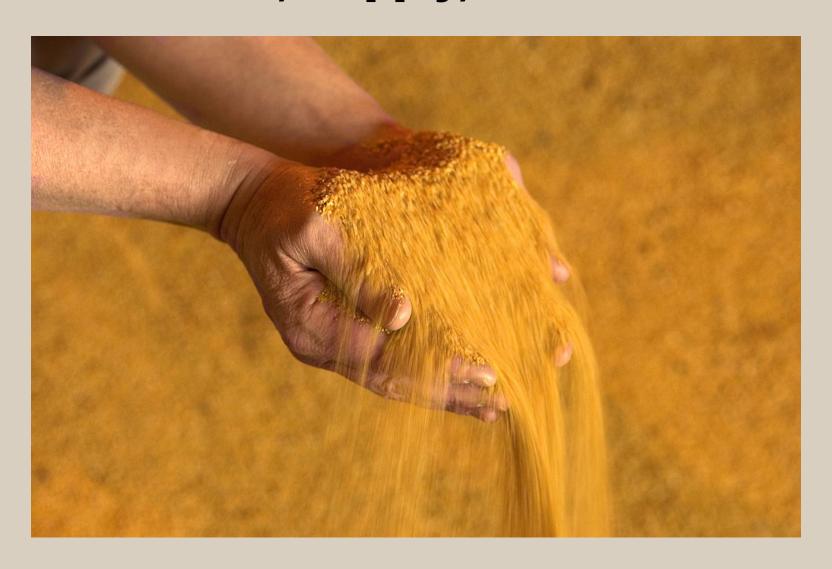
Market Conclusions



- U.S. should see a dip in production this year
 - Planting issues lead to decrease in acreage and yield
 - Will still have plenty of corn domestically due to large carryout from last year
 - Futures prices should hover around 4.50 at current projected stocks/use ratio
 - Futures have increased all countries prices, but the U.S. has gone up more than other countries due to elevated basis levels in an attempt to ration exports to appropriate levels
- Globally, the corn crop is strong
 - Record South American and Ukrainian crops projected
 - While significantly cheaper than U.S. origin today, parity should return once market fears flee U.S. and a clearer idea of PSND is achieved

DDGS Production, Supply, & Demand





DDGS Profile

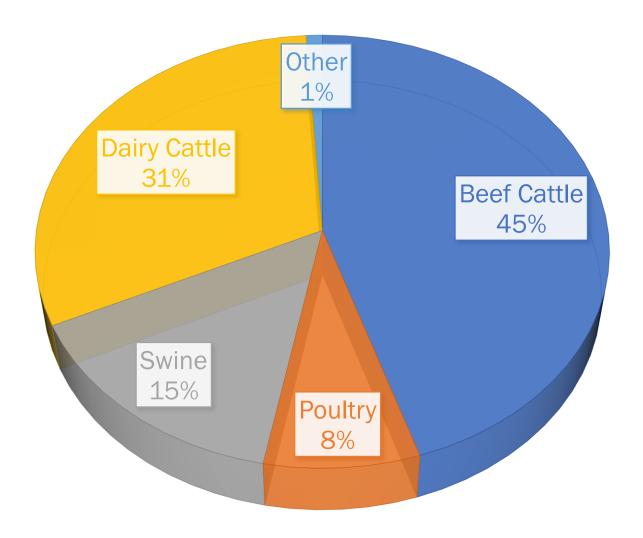


- Traditionally a 35 profat product
 - Straying away from this product, as DDGS becomes more tailored feed
- For the purpose of this presentation, we will be looking at most liquid market, which is for the below specs.

Parameter	Average	Range	DDGS Contract Spec
Humidity %	10.7	8 –14	12 Maximum
Crude Protein %	30.9	27 – 32.9	27 Maximum
Crude Fat %	7	4 – 12	4 Maximum
Crude Fiber %	7.2	5.4 – 10.4	9 Maximum
Sand/Silica %	6	3 – 9.8	8 Maximum

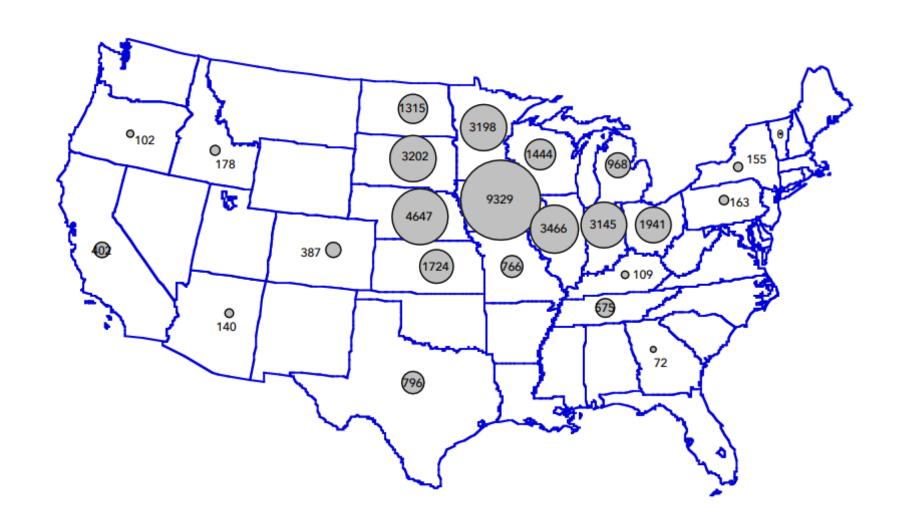
DDGS Consumption By Species





DDGS Production By State

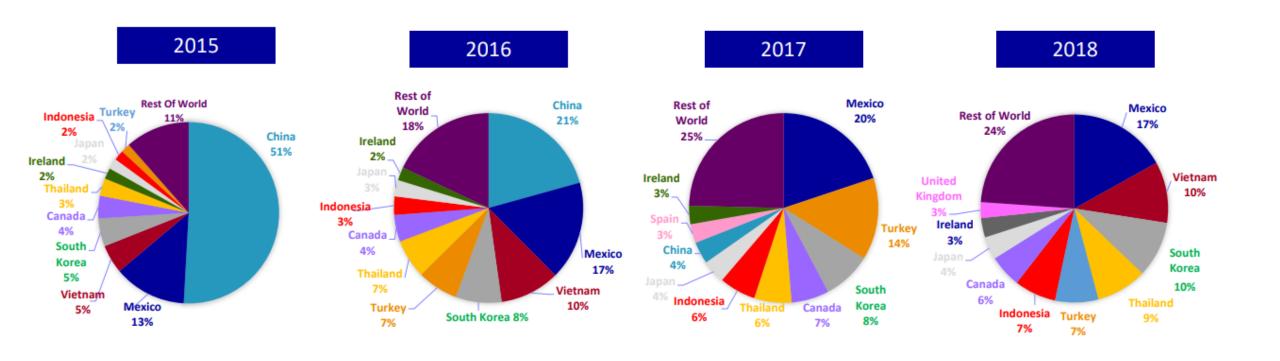




Source: The ProExporter Network

DDGS Historical Export Demand



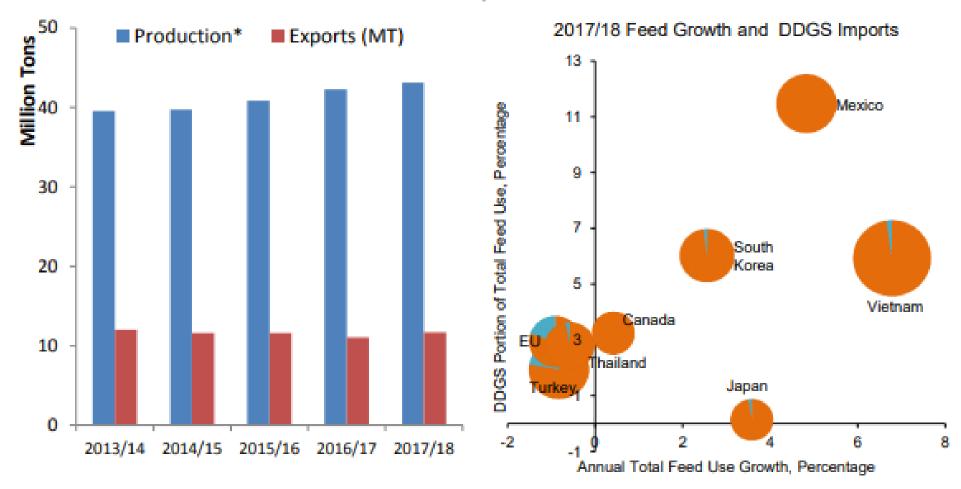


Source: CHS

DDGS Demand Growth Post China



U.S. DDGS, At A Glance

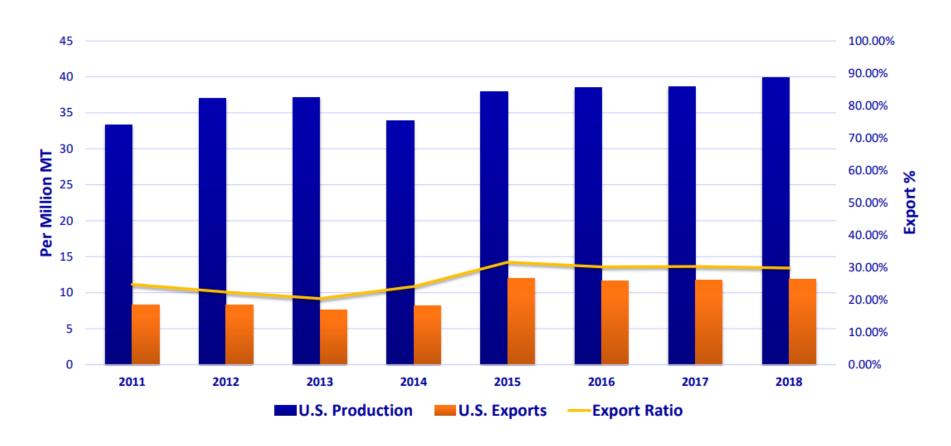


Source: USDA

DDGS Exports Annually



US DDGS Production vs Exports



Source: CHS

DDGS 10 Year Projections



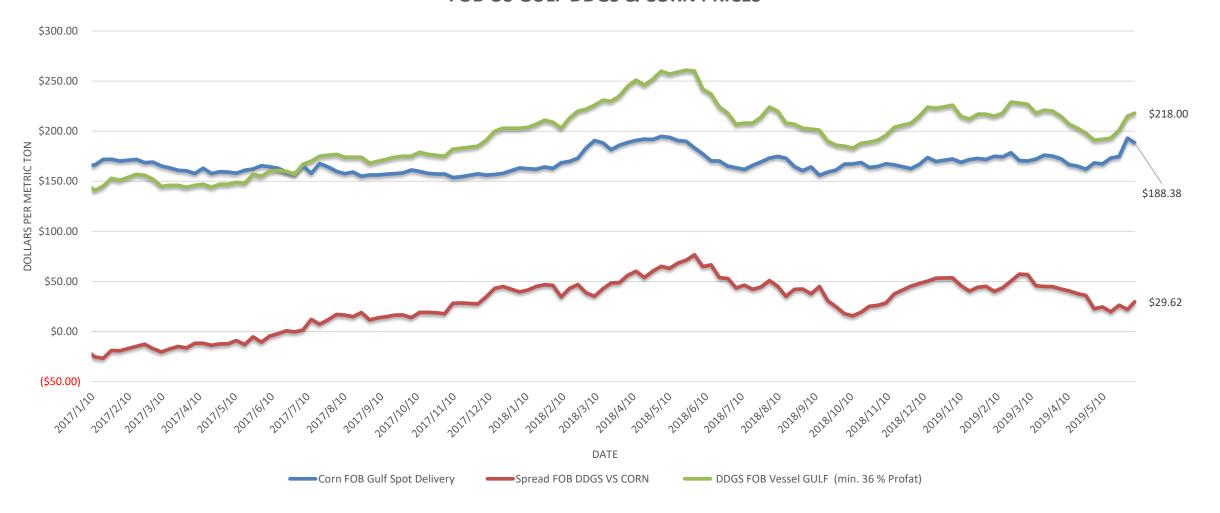
Corn displicd by DDG mil bu 1064 1078 1074 1069 1069 1058 1052 1024 1063 1035 DDG fed to all animals thou mt 28220 28510 28431 28294 28294 28013 27868 27120 28168 27414	Item	Unit	Crop Year									
Area planted thou ac Area harvested 89.1 92.8 93.0 93.0 94.0 94.0 91.0 90.0 93.0 92.0 Area harvested thou ac Yield 81.7 85.2 85.4 85.4 86.3 83.6 82.6 85.4 84.5 Yield bu/ac 176.4 171.3 170.8 171.3 158.7 184.5 189.9 187.3 195.2 197.0 Production mil bu Mil bu 16595 16730 16662 16606 15564 176.86 18195 17952 18947 19357 Carry-out mil bu 16595 16730 16662 16606 15564 17686 18195 17952 18947 19357 Disappearance (Use) mil bu 14501 14668 14693 14753 13812 15728 15788 15686 16243 16500 Feed/Residual Use mil bu 336 626 855 822 689 1055 1222 1065			18-19	19-20	20-21	21-22	22-23	23-24	24-25	25-26	26-27	27-28
Area harvested Yield bu/ac bu/ac 176.4 171.3 170.8 171.3 170.8 171.3 158.7 184.5 189.9 187.3 195.2 197.0 Production mil bu 14420 14595 14590 14627 13701 15924 15868 15476 16670 16644 Supply mil bu 16595 16730 16662 16606 15564 17686 18195 17952 18447 19357 Carry-out mil bu 14501 14668 14693 14753 13812 15370 15728 15866 16243 16500 Feed/Residual Use mil bu 5229 5534 5600 5600 5500 5900 6100 6000 6200 6300 Residual use mil bu 8493 4908 4745 4778 4811 4845 4878 4935 4923 4980 Dairy mil bu 1484 1488 1437 14464 1454 1462 1470 1486 1480 1496 Hogs mil bu 1168 1172 1135 1144 1153 1163 1172 1188 1186 1201 Poultry mil bu 101 101 98 99 99 100 101 101 102 Fuce ethanol, wet mil mil bu 4894 5046 5569 5628 5628 5224 5223 522 522 522 522 522 Fuel ethanol, dry mil mil bu 4894 5046 5106 5106 5106 5224 5283 5341 5398 5456 5513 Total fuel ethanol mil bu 4501 14668 14693 14753 13812 1570 15708 15868 16243 16500 Net Exports to foreign mil bu 14501 14668 14693 14753 13812 15370 15728 15868 16243 16500 Net Exports to foreign mil bu 14501 14668 14693 14753 13812 15370 15728 15686 16243 16500 Net Exports to foreign mil bu 14601 1070 -2000 -2000 -1100 -2200 -2300 -2300 -2600 -2700 Note. DDG Disposition (na until 06-07), with ruminarus 30% ration @ 1.0 feed value of corn; hogs 20% @ 0.8; poultry 50% @ 0.5000 Note. DDG Disposition (na until 06-07), with ruminarus 30% ration @ 1.0 feed value of corn; hogs 20% @ 0.8; poultry 50% @ 0.5000 -2700 Note. DDG Disposition (na until 06-07), with ruminarus 30% ration @ 1.0 feed value of corn; hogs 20% @ 0.8; poultry 50% @ 0.5000 -2700 -2700 -2700 -2700 -2700 -2700 -2700 -2700 -2700 -2700 -2700 -2700 -2700 -	Carry-in	mil bu	2140	2095	2062	1969	1853	1752	2316	2466	2266	2703
Yield bu/ac 176.4 171.3 170.8 171.3 158.7 184.5 189.9 187.3 195.2 197.0 Production mil bu 14420 14595 14590 14627 13701 15924 15868 15476 16670 16644 Supply mil bu 16595 16730 16662 16606 15564 17686 18195 17952 18947 19357 Disappearance (Use) mil bu 14501 14668 14693 14753 13812 15370 15728 15686 16203 16500 Feed/Residual Use mil bu 336 626 855 822 689 1055 1222 1065 1277 1320 Feed use in state mil bu 4893 4908 4745 4778 4811 4845 4878 4935 4923 4980 Dairy mil bu 1484 8148 1437 1446 1454 1462 1470 1486 1480 </td <td>Area planted</td> <td>thou ac</td> <td>89.1</td> <td>92.8</td> <td>93.0</td> <td>93.0</td> <td>94.0</td> <td>94.0</td> <td>91.0</td> <td>90.0</td> <td>93.0</td> <td>92.0</td>	Area planted	thou ac	89.1	92.8	93.0	93.0	94.0	94.0	91.0	90.0	93.0	92.0
Production	Area harvested	thou ac	81.7	85.2	85.4	85.4	86.3	86.3	83.6	82.6	85.4	84.5
Supply mil bu Carry-out 16595 16730 16662 16606 15564 17686 18195 17952 18947 19357 Carry-out mil bu Day 2095 2062 1969 1853 1752 2316 2466 2266 2703 2857 Disappearance (Use) mil bu Day 14501 14668 14693 14753 13812 15370 15728 15686 16243 16500 Feed/Residual Use mil bu May 336 626 855 822 689 1055 1222 1065 1277 1320 Feed use in state mil bu May 4893 4908 4745 4778 4811 4845 4878 4935 4923 4980 Dairy mil bu May 4841 844 815 820 824 829 834 843 840 848 Beef cattle mil bu May 1168 1172 1135 1144 1153 1153 1152 1136	Yield	bu/ac	176.4	171.3	170.8	171.3	158.7	184.5	189.9	187.3	195.2	197.0
Carry-out mil bu 2095 2062 1969 1853 1752 2316 2466 2266 2703 2857 Disappearance (Use) mil bu 14501 14668 14693 14753 13812 15370 15728 15686 16243 16500 Feed/Residual Use mil bu 336 626 855 822 689 1055 1222 1065 1277 1320 Feed use in state mil bu 4893 4908 4745 4778 4811 4845 4878 4935 4923 4980 Dairy mil bu 841 844 815 820 824 829 834 843 840 848 Beef cattle mil bu 1484 1488 1437 1446 1454 1462 1470 1486 1480 1496 Hogs mil bu 1168 1172 1135 1144 1153 1163 1172 1188 1186 1201 Poultry mil bu 1298 1302 1261 1271 1281 1291 1301 1318 1316 1333 Other mil bu 101 101 98 98 99 99 100 101 101 101 202 Processing in state mil bu 6971 7034 7093 7153 7212 7270 7328 7386 7443 7500 Fuel ethanol, dry mill mil bu 522 522 522 522 522 522 522 522 522 52	Production	mil bu	14420	14595	14590	14627	13701	15924	15868	15476	16670	16644
Disappearance (Use) mil bu Feed/Residual Use 14501 14668 14693 14753 13812 15370 15728 15686 16243 16500 Feed/Residual Use mil bu 336 626 855 822 689 1055 1222 1065 1277 1320 Feed use in state mil bu 4893 4908 4745 4778 4811 4845 4878 4935 4923 4980 Dairy mil bu 1484 848 815 820 824 829 834 840 848 Beef cattle mil bu 1484 1488 1437 1446 1454 1462 1470 1486 1490 1496 Hogs mil bu 1168 1172 1135 1144 1153 1163 1172 1188 1186 1201 Poultry mil bu 1298 1302 1261 1271 1281 1291 1301 1318 1316 1333 Other mil bu 101 101 98	Supply	mil bu	16595	16730	16662	16606	15564	17686	18195	17952	18947	19357
Feed/Residual Use mil bu Residual use 5229 5534 5600 5600 5500 5900 6100 6000 6200 6300 Residual use mil bu 336 626 855 822 689 1055 1222 1065 1277 1320 Feed use in state mil bu 4893 4908 4745 4778 4811 4845 4878 4935 4923 4980 Dairy mil bu 1484 1488 1437 1446 1452 1470 1486 1480 1496 Hogs mil bu 1168 1172 1135 1144 1153 1163 1172 1188 1186 1201 Poultry mil bu 1298 1302 1261 1271 1281 1291 1301 1318 1316 1333 Other mil bu 101 101 98 98 99 99 100 101 101 102 Processing in sta	Carry-out	mil bu	2095	2062	1969	1853	1752	2316	2466	2266	2703	2857
Residual use mil bu 336 626 855 822 689 1055 1222 1065 1277 1320 Feed use in state mil bu 4893 4908 4745 4778 4811 4845 4878 4935 4923 4980 Dairy mil bu 841 844 815 820 824 829 834 843 840 848 Beef cattle mil bu 1484 1488 1437 1446 1454 1462 1470 1486 1480 1496 Hogs mil bu 1168 1172 1135 1144 1153 1163 1172 1188 1186 1201 Poultry mil bu 101 101 98 98 99 99 100 101 101 102 Processing in state mil bu 6971 7034 7093 7153 7212 7270 7328 7386 7443 7500 Fuel ethan	Disappearance (Use)	mil bu	14501	14668	14693	14753	13812	15370	15728	15686	16243	16500
Feed use in state mil bu 4893 4908 4745 4778 4811 4845 4878 4935 4923 4980 Dairy mil bu 841 844 815 820 824 829 834 843 840 848 Beef cattle mil bu 1484 1488 1437 1446 1454 1462 1470 1486 1480 1496 Hogs mil bu 1168 1172 1135 1144 1153 1163 1172 1188 1186 1201 Poultry mil bu 1298 1302 1261 1271 1281 1291 1301 1318 1316 1333 Other mil bu 101 101 98 98 99 99 100 101 101 102 Processing in state mil bu 6971 7034 7093 7153 7212 7270 7328 7386 7443 7500 Fuel ethano	Feed/Residual Use	mil bu	5229	5534	5600	5600	5500	5900	6100	6000	6200	6300
Dairy mil bu 841 844 815 820 824 829 834 843 840 848 Beef cattle mil bu 1484 1488 1437 1446 1454 1462 1470 1486 1480 1496 Hogs mil bu 1168 1172 1135 1144 1153 1163 1172 1188 1186 1201 Poultry mil bu 1298 1302 1261 1271 1281 1291 1301 1318 1316 1333 Other mil bu 101 101 98 98 99 99 100 101 101 102 Processing in state mil bu 6971 7034 7093 7153 7212 7270 7328 7386 7443 7500 Fuel ethanol, wet mill mil bu 522 522 522 522 522 522 522 522 522 522 522 522	Residual use	mil bu	336	626	855	822	689	1055	1222	1065	1277	1320
Beef cattle mil bu 1484 1488 1437 1446 1454 1462 1470 1486 1480 1496 Hogs mil bu 1168 1172 1135 1144 1153 1163 1172 1188 1186 1201 Poultry mil bu 1298 1302 1261 1271 1281 1291 1301 1318 1316 1333 Other mil bu 101 101 98 98 99 99 100 101 101 102 Processing in state mil bu 6971 7034 7093 7153 7212 7270 7328 7386 7443 7500 Fuel ethanol, wet mill mil bu 522 <	Feed use in state	mil bu	4893	4908	4745	4778	4811	4845	4878	4935	4923	4980
Hogs	Dairy	mil bu	841	844	815	820	824	829	834	843	840	848
Poultry mil bu 1298 1302 1261 1271 1281 1291 1301 1318 1316 1333 Other mil bu 101 101 98 98 99 99 100 101 101 102 Processing in state mil bu 6971 7034 7093 7153 7212 7270 7328 7386 7443 7500 Fuel ethanol, wet mill mil bu 522 <td>Beef cattle</td> <td>mil bu</td> <td>1484</td> <td>1488</td> <td>1437</td> <td>1446</td> <td>1454</td> <td>1462</td> <td>1470</td> <td>1486</td> <td>1480</td> <td>1496</td>	Beef cattle	mil bu	1484	1488	1437	1446	1454	1462	1470	1486	1480	1496
Other mil bu 101 101 98 98 99 99 100 101 101 102 Processing in state mil bu 6971 7034 7093 7153 7212 7270 7328 7386 7443 7500 Fuel ethanol, wet mill mil bu 522 523 5341	Hogs	mil bu	1168	1172	1135	1144	1153	1163	1172	1188	1186	1201
Processing in state mil bu 6971 7034 7093 7153 7212 7270 7328 7386 7443 7500 Fuel ethanol, wet mill mil bu 522 522 522 522 522 522 522 522 522 52	Poultry	mil bu	1298	1302	1261	1271	1281	1291	1301	1318	1316	1333
Fuel ethanol, wet mill mil bu 522 522 522 522 522 522 522 522 522 52	Other	mil bu	101	101	98	98	99	99	100	101	101	102
Fuel ethanol, dry mill mil bu 4984 5046 5106 5165 5224 5283 5341 5398 5456 5513 Total fuel ethanol mil bu 5506 5569 5628 5688 5747 5805 5863 5921 5978 6035 bil gal 15.9 16.0 16.2 16.5 16.7 16.9 17.2 17.4 17.6 17.8 Total Use mil bu 14501 14668 14693 14753 13812 15370 15728 15686 16243 16500 Net Exports to foreign mil bu -2300 -2100 -2000 -2000 -1100 -2200 -2300 -2300 -2600 -2700 Note. DDG Disposition (na until 06-07), with ruminants 30% ration @ 1.0 feed value of corn; hogs 20% @ 0.8; poultry 5% @ 0.5. DDG production thou mt 38720 39610 40131 40594 40594 41513 41968 42420 42868 43314 Corn displicd by DDG mil bu 1064 1078 1074 1069 1069 1058 1052 1024 1063 1035 DDG fed to all animals thou mt 28220 28510 28431 28294 28294 28013 27868 27120 28168 27414 DDG net exports thou mt 10500 11100 11700 12300 12300 13500 14100 15300 14700 15900 4	Processing in state											
Total fuel ethanol bil gal 15.9 16.0 16.2 16.5 16.7 16.9 17.2 17.4 17.6 17.8 15.9 16.0 16.2 16.5 16.7 16.9 17.2 17.4 17.6 17.8 15.9 16.0 16.2 16.5 16.7 16.9 17.2 17.4 17.6 17.8 15.9 16.0 16.2 16.5 16.7 16.9 17.2 17.4 17.6 17.8 15.9 16.0 16.2 16.5 16.7 16.9 17.2 17.4 17.6 17.8 15.9 16.0 Net Exports to foreign mil bu 14501 14668 14693 14753 13812 15370 15728 15686 16243 16500 Net Exports to foreign mil bu -2300 -2100 -2000 -2000 -1100 -2200 -2300 -2300 -2600 -2700 Note. DDG Disposition (na until 06-07), with ruminants 30% ration @ 1.0 feed value of corn; hogs 20% @ 0.8; poultry 5% @ 0.5. DDG production thou mt 38720 39610 40131 40594 40594 41513 41968 42420 42868 43314 Com displicd by DDG mil bu 1064 1078 1074 1069 1069 1058 1052 1024 1063 1035 DDG fed to all animals thou mt 28220 28510 28431 28294 28294 28013 27868 27120 28168 27414 DDG net exports thou mt 10500 11100 11700 12300 12300 13500 14100 15300 14700 15900 15	Fuel ethanol, wet mill	mil bu	522	522	522	522	522	522	522	522	522	522
bil gal 15.9 16.0 16.2 16.5 16.7 16.9 17.2 17.4 17.6 17.8 10.1 10.2 10.2 10.2 10.2 10.2 10.2 10.2	Fuel ethanol, dry mill			5046	5106	5165		5283	5341			
Total Use mil bu 14501 14668 14693 14753 13812 15370 15728 15686 16243 16500 Net Exports to foreign mil bu -2300 -2100 -2000 -2000 -1100 -2200 -2300 -2300 -2300 -2600 -2700 Note. DDG Disposition (na until 06-07), with ruminants 30% ration @ 1.0 feed value of corn; hogs 20% @ 0.8; poultry 5% @ 0.5. DDG production thou mt 38720 39610 40131 40594 40594 41513 41968 42420 42868 43314 Corn displicd by DDG mil bu 1064 1078 1074 1069 1069 1058 1052 1024 1063 1035 DDG fed to all animals thou mt 28220 28510 28431 28294 28294 28013 27868 27120 28168 27414 DDG net exports thou mt 10500 11100 11700 12300 12300 13500 14100 15300 14700 15900 4000 1500 1400 14	Total fuel ethanol			5569	5628	5688		5805				
Net Exports to foreign mil bu -2300 -2100 -2000 -2000 -1100 -2200 -2300 -2300 -2600 -2700 Note. DDG Disposition (na until 06-07), with ruminants 30% ration @ 1.0 feed value of corn; hogs 20% @ 0.8; poultry 5% @ 0.5. DDG production thou mt 38720 39610 40131 40594 40594 41513 41968 42420 42868 43314 Corn displcd by DDG mil bu 1064 1078 1074 1069 1058 1052 1024 1063 1035 DDG fed to all animals thou mt 28220 28510 28431 28294 28294 28013 27868 27120 28168 27414 DDG net exports thou mt 10500 11100 11700 12300 12300 13500 14100 15300 14700 15900		bil gal	15.9	16.0	16.2	16.5	16.7	16.9	17.2	17.4	17.6	17.8
Note. DDG Disposition (na until 06-07), with ruminants 30% ration @ 1.0 feed value of corn; hogs 20% @ 0.8; poultry 5% @ 0.5. DDG production thou mt 38720 39610 40131 40594 40594 41513 41968 42420 42868 43314 Corn displicd by DDG mil bu 1064 1078 1074 1069 1069 1058 1052 1024 1063 1035 DDG fed to all animals thou mt 28220 28510 28431 28294 28294 28013 27868 27120 28168 27414 DDG net exports thou mt 10500 11100 11700 12300 12300 13500 14100 15300 14700 15900	Total Use	mil bu	14501	14668	14693	14753	13812	15370	15728	15686	16243	16500
DDG production thou mt 38720 39610 40131 40594 40594 41513 41968 42420 42868 43314 Corn displicd by DDG mil bu 1064 1078 1074 1069 1069 1058 1052 1024 1063 1035 DDG fed to all animals thou mt 28220 28510 28431 28294 28294 28013 27868 27120 28168 27414 DDG net exports thou mt 10500 11100 11700 12300 12300 13500 14100 15300 14700 15900	Net Exports to foreign	mil bu	-2300	-2100	-2000	-2000	-1100	-2200	-2300	-2300	-2600	-2700
Com displicd by DDG mil bu 1064 1078 1074 1069 1069 1058 1052 1024 1063 1035 DDG fed to all animals thou mt 28220 28510 28431 28294 28294 28013 27868 27120 28168 27414 DDG net exports thou mt 10500 11100 11700 12300 12300 13500 14100 15300 14700 15900	Note. DDG Disposition (na unt	il 06-07), w	vith rumina	nts 30%	ration @ 1	.0 feed va	alue of cor	n; hogs 2	0% @ 0.8;	; poultry 5	5% @ 0.5.	
Corn displicd by DDG mil bu 1064 1078 1074 1069 1069 1058 1052 1024 1063 1035 DDG fed to all animals thou mt 28220 28510 28431 28294 28294 28013 27868 27120 28168 27414 DDG net exports thou mt 10500 11100 11700 12300 12300 13500 14100 15300 14700 15900	DDG production	thou mt	38720	39610	40131	40594	40594	41513	41968	42420	42868	43314
DDG fed to all animals thou mt 28220 28510 28431 28294 28294 28013 27868 27120 28168 27414 DDG net exports thou mt 10500 11100 11700 12300 12300 13500 14100 15300 14700 15900 (10.10 to 10.10 t	•	mil bu	1064	1078	1074	1069	1069	1058	1052	1024	1063	
			28220	28510	28431	28294	28294	28013	27868	27120	28168	27414
•	DDG net exports	thou mt	10500	11100	11700	12300	12300	13500	14100	15300	14700	15900
	Corn displcd by DDG &CGF	mil bu	1212	1212	1235	1226	1217	1208	1198	1166	1202	1170

Source: The ProExporter Network

How DDGS Is Valued



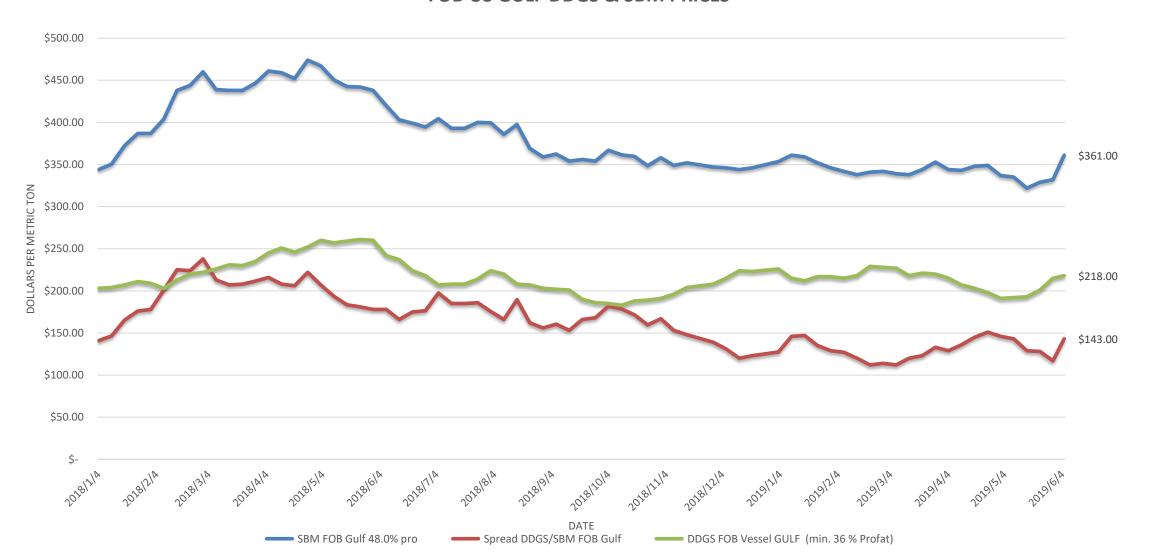
FOB US GULF DDGS & CORN PRICES



How DDGS Is Valued

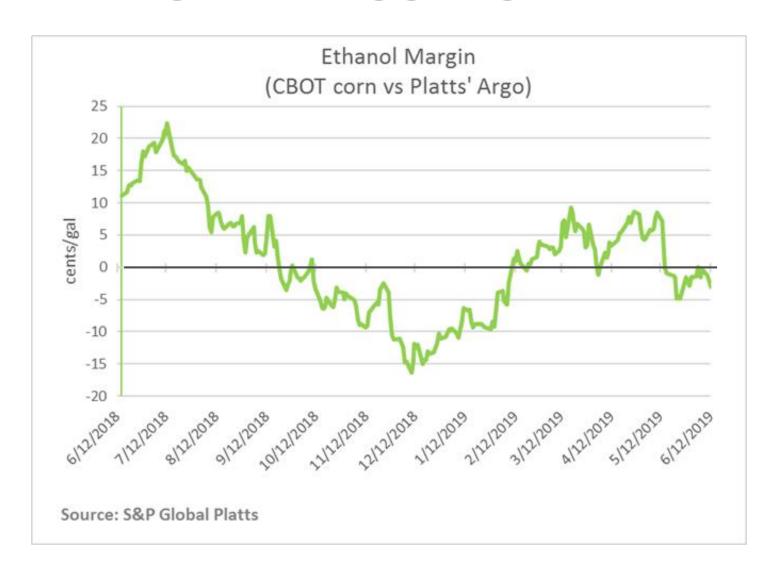


FOB US GULF DDGS & SBM PRICES



Ethanol Margin Struggling





River Issues Causing Rising DDGS Price



DDGS Price Table: May 16, 2019 (USD/MT) (Quantity, availability, payment and delivery terms vary)							
Delivery Point Quality Min. 35% Pro-fat combined	June	July	August				
Barge CIF New Orleans	183	183	182				
FOB Vessel GULF	193	194	195				
Rail delivered PNW	193	193	192				
Rail delivered California	195	195	196				
Mid-Bridge Laredo, TX	195	194	195				
FOB Lethbridge, Alberta	177	176	176				
40 ft. Containers to South Korea (Busan)	210	211	211				
40 ft. Containers to Taiwan (Kaohsiung)	207	208	208				
40 ft. Containers to Philippines (Manila)	222	223	223				
40 ft. Containers to Indonesia (Jakarta)	228	228	228				
40 ft. Containers to Malaysia (Port Kelang)	214	214	215				
40 ft. Containers to Vietnam (HCMC)	221	221	221				
40 ft. Containers to Japan (Yokohama)	225	225	225				
40 ft. containers to Thailand (LCMB)	215	216	216				
40 ft. Containers to China (Shanghai)	209	210	211				
40 ft. Containers to Bangladesh (Chittagong)	248	248	249				
40 ft. Containers to Myanmar (Yangon)	241	241	242				
KC Rail Yard (delivered ramp)	172	172	173				
Elwood, IL Rail Yard (delivered ramp)	167	168	168				

Source: WPI, *Prices are based on offer indications only; terms of delivery, payment and quality may vary from one supplier to another, impacting the actual value of the price.

DDGS Price Table: June 6, 2019 (USD/MT) (Quantity, availability, payment and delivery terms vary)							
Delivery Point	July	August	September				
Quality Min. 35% Pro-fat combined	186	ragaot	Coptombor				
Barge CIF New Orleans	204	204	204				
FOB Vessel GULF	218	220	222				
Rail delivered PNW	207	210	211				
Rail delivered California	214	216	218				
Mid-Bridge Laredo, TX	216	217	217				
FOB Lethbridge, Alberta	193	193	194				
40 ft. Containers to South Korea (Busan)	226	226	226				
40 ft. Containers to Taiwan (Kaohsiung)	222	222	222				
40 ft. Containers to Philippines (Manila)	236	236	236				
40 ft. Containers to Indonesia (Jakarta)	232	232	232				
40 ft. Containers to Malaysia (Port Kelang)	231	231	231				
40 ft. Containers to Vietnam (HCMC)	233	233	233				
40 ft. Containers to Japan (Yokohama)	241	241	241				
40 ft. containers to Thailand (LCMB)	233	233	233				
40 ft. Containers to China (Shanghai)	224	224	224				
40 ft. Containers to Bangladesh (Chittagong)	256	256	256				
40 ft. Containers to Myanmar (Yangon)	256	256	256				
KC Rail Yard (delivered ramp)	183	183	183				
Elwood, IL Rail Yard (delivered ramp)	184	185	185				

Source: WPI, *Prices are based on offer indications only; terms of delivery, payment and quality may vary from one supplier to another, impacting the actual value of the price.

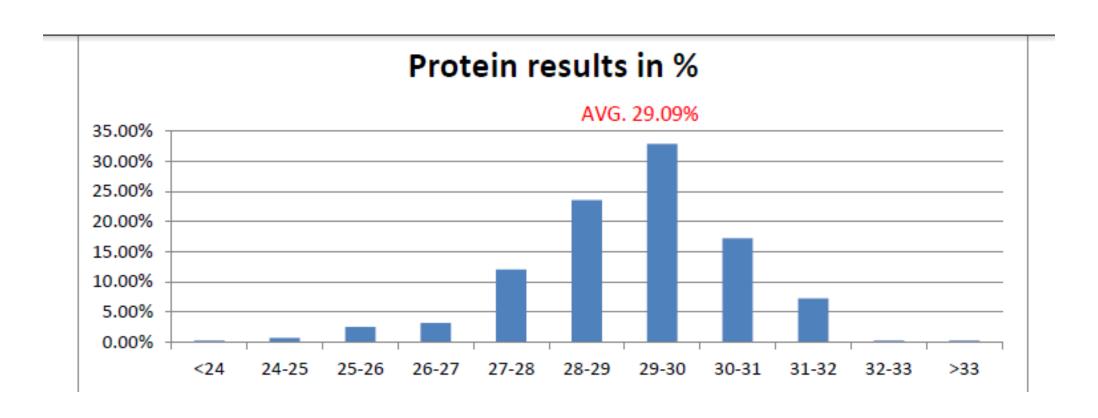
Market Conclusions



- DDGS market has been expanding in other countries since China's departure due to AD/CVD case
- DDGS Exports projected to rise over next ten years
 - Domestic consumption will go down
- Prices are currently inflated due to river logistics
 - Export channel very reliant on river system
- Ethanol plants are experiencing negative profit margin
 - Should change with E15 allowance during summer
 - This should help DDGS prices on a FOB basis, due to increased supply and steady demand

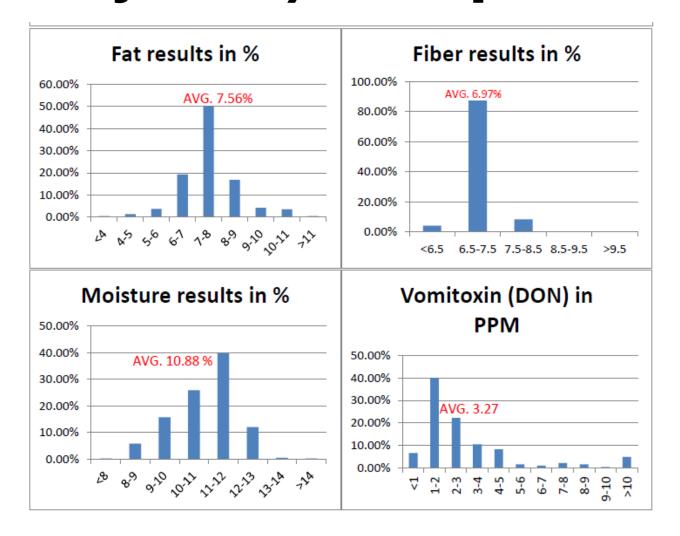
DDGS Quality 2018/19 Exports





DDGS Quality 2018/19 Exports







THANK YOU!

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