

Subject: Early Release of Ag Projections to 2027 - tables

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To: pmmcustomers@advance-trading.com;

Date: Tuesday, November 28, 2017 1:20 PM

U.S. corn long-term projections

Item	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28
Area (million acres):												
Planted acres	94.0	90.4	91.0	90.0	90.0	89.5	89.5	88.5	88.5	88.0	87.5	87.5
Harvested acres	86.7	83.1	83.7	82.7	82.7	82.2	82.2	81.2	81.2	80.7	80.2	80.2
Yield:												
Bushels per harvested acre	174.6	175.4	173.5	175.5	177.5	179.5	181.5	183.5	185.5	187.5	189.5	191.5
Supply and use (million bushels):												
Beginning stocks	1,737	2,295	2,487	2,607	2,597	2,637	2,647	2,657	2,617	2,632	2,627	2,607
Production	15,148	14,578	14,520	14,515	14,680	14,755	14,920	14,900	15,065	15,130	15,200	15,360
Imports	57	50	50	50	50	50	50	50	50	50	50	50
Supply	16,942	16,922	17,057	17,172	17,327	17,442	17,617	17,607	17,732	17,812	17,877	18,017
Feed & residual	5,463	5,575	5,550	5,600	5,700	5,750	5,900	5,925	6,000	6,075	6,125	6,250
Food, seed, & industrial	6,891	6,935	7,000	7,025	7,015	7,020	7,010	6,990	7,000	6,985	6,970	6,955
Ethanol and by-products	5,438	5,475	5,525	5,550	5,525	5,525	5,500	5,475	5,475	5,450	5,425	5,400
Domestic use	12,354	12,510	12,550	12,625	12,715	12,770	12,910	12,915	13,000	13,060	13,095	13,205
Exports	2,293	1,925	1,900	1,950	1,975	2,025	2,050	2,075	2,100	2,125	2,175	2,200
Total use	14,647	14,435	14,450	14,575	14,690	14,795	14,960	14,990	15,100	15,185	15,270	15,405
Ending stocks	2,295	2,487	2,607	2,597	2,637	2,647	2,657	2,617	2,632	2,627	2,607	2,612
Stocks/use ratio, percent	15.7	17.2	18.0	17.8	18.0	17.9	17.8	17.5	17.4	17.3	17.1	17.0
Prices (dollars per bushel):												
Farm price	3.36	3.20	3.30	3.35	3.35	3.40	3.40	3.45	3.50	3.50	3.55	3.60
Variable costs of production (dollars):												
Per acre	334	329	336	341	347	348	351	357	362	365	367	370
Returns over variable costs (dollars per acre):												
Net returns	253	232	236	247	248	262	266	276	288	291	306	320

Note: Totals may not add due to rounding. Marketing year beginning September 1 for corn.

U.S. wheat long-term projections

Item	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28
Area (million acres):												
Planted acres	50.1	46.0	45.0	46.0	47.0	47.0	47.0	47.0	48.0	48.0	48.0	48.0
Harvested acres	43.9	37.6	38.3	39.1	40.0	40.0	40.0	40.0	40.8	40.8	40.8	40.8
Yield:												
Bushels per harvested acre	52.7	46.3	47.4	47.8	48.2	48.6	49.0	49.4	49.8	50.2	50.6	50.9
Supply and use (million bushels):												
Beginning stocks	976	1,181	935	813	739	714	690	667	648	650	658	667
Production	2,309	1,741	1,815	1,869	1,928	1,944	1,960	1,976	2,032	2,048	2,064	2,077
Imports	118	150	135	130	130	130	130	130	120	120	120	120
Supply	3,402	3,071	2,885	2,812	2,797	2,788	2,780	2,773	2,800	2,818	2,842	2,864
Food	949	950	950	950	950	955	960	960	965	965	970	975
Seed	61	66	62	63	63	63	63	65	65	65	65	65
Feed & residual	156	120	110	100	110	110	110	110	120	120	130	140
Domestic use	1,167	1,136	1,122	1,113	1,123	1,128	1,133	1,135	1,150	1,150	1,165	1,180
Exports	1,055	1,000	950	960	960	970	980	990	1,000	1,010	1,010	1,010
Total use	2,222	2,136	2,072	2,073	2,083	2,098	2,113	2,125	2,150	2,160	2,175	2,190
Ending stocks	1,181	935	813	739	714	690	667	648	650	658	667	674
Stocks/use ratio, percent	53.1	43.8	39.2	35.6	34.3	32.9	31.6	30.5	30.2	30.5	30.7	30.8
Prices (dollars per bushel):												
Farm price	3.89	4.60	4.60	4.80	4.90	5.00	5.10	5.10	5.10	5.10	5.10	5.20
Variable costs of production (dollars):												
Per acre	116	115	118	119	122	123	124	126	128	130	131	132
Returns over variable costs (dollars per acre):												
Net returns	89	98	100	110	114	120	126	126	126	126	127	132

Note: Marketing year beginning June 1 for wheat.

U.S. soybeans and soybean products long-term projections

Item	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28
Soybeans												
Area (million acres):												
Planted	83.4	90.2	91.0	91.0	91.5	92.0	92.0	92.0	91.5	91.5	91.5	91.5
Harvested	82.7	89.5	90.1	90.1	90.5	91.0	91.0	91.0	90.5	90.5	90.5	90.5
Yield, bushels per harvested acre	52.0	49.5	48.4	48.9	49.5	50.0	50.5	51.0	51.6	52.1	52.6	53.1
Supply (million bushels)												
Beginning stocks, September 1	197	301	425	376	351	324	323	325	328	321	324	331
Production	4,296	4,425	4,360	4,410	4,475	4,550	4,595	4,645	4,665	4,715	4,760	4,810
Imports	22	25	25	25	25	25	25	25	25	25	25	25

Total supply	4,515	4,752	4,810	4,811	4,851	4,899	4,943	4,995	5,018	5,061	5,109	5,166
Use (million bushels)												
Crush	1,899	1,940	1,970	1,985	2,005	2,025	2,050	2,075	2,095	2,120	2,145	2,165
Seed and residual	141	136	140	140	141	142	142	142	142	142	143	143
Exports	2,174	2,250	2,325	2,335	2,380	2,410	2,425	2,450	2,460	2,475	2,490	2,515
Total use	4,214	4,326	4,435	4,460	4,526	4,577	4,617	4,667	4,697	4,737	4,778	4,823
Ending stocks, August 31												
Total ending stocks	301	425	376	351	324	323	325	328	321	324	331	342
Stocks/use ratio, percent	7.2	9.8	8.5	7.9	7.2	7.0	7.0	7.0	6.8	6.8	6.9	7.1
Prices (dollars per bushel)												
Soybean price, farm	9.47	9.30	9.40	9.45	9.45	9.50	9.50	9.60	9.75	9.75	9.80	9.80
Variable costs of production (dollars):												
Per acre	173	173	176	178	181	182	184	187	189	191	192	194
Returns over variable costs (dollars per acre):												
Net returns	320	287	279	284	287	293	296	303	314	317	323	326
Soybean oil (million pounds)												
Beginning stocks, October 1	1,687	1,711	1,616	1,636	1,651	1,621	1,566	1,626	1,721	1,821	1,956	2,156
Production	22,099	22,505	22,870	23,065	23,320	23,570	23,885	24,195	24,450	24,760	25,075	25,330
Imports	319	300	300	300	300	300	300	300	300	300	300	300
Total supply	24,104	24,516	24,786	25,001	25,271	25,491	25,751	26,121	26,471	26,881	27,331	27,786
Domestic disappearance	19,837	20,800	21,050	21,250	21,450	21,650	21,825	22,000	22,175	22,375	22,575	22,775
Biodiesel 1/	6,200	7,000	7,100	7,150	7,200	7,250	7,250	7,250	7,250	7,250	7,250	7,250
Food, feed, and other industrial	13,637	13,800	13,950	14,100	14,250	14,400	14,575	14,750	14,925	15,125	15,325	15,525
Exports	2,556	2,100	2,100	2,100	2,200	2,275	2,300	2,400	2,475	2,550	2,600	2,625
Total use	22,393	22,900	23,150	23,350	23,650	23,925	24,125	24,400	24,650	24,925	25,175	25,400
Ending stocks, September 30	1,711	1,616	1,636	1,651	1,621	1,566	1,626	1,721	1,821	1,956	2,156	2,386
Soybean oil price (dollars per lb)	0.3248	0.3450	0.3497	0.3542	0.3587	0.3632	0.3677	0.3722	0.3772	0.3817	0.3862	0.3922
Soybean meal (thousand short tons)												
Beginning stocks, October 1	264	401	300	300	300	300	300	300	300	300	300	300
Production	44,733	46,099	46,800	47,100	47,600	48,150	48,700	49,250	49,800	50,350	50,900	51,450
Imports	349	300	300	300	300	300	300	300	300	300	300	300
Total supply	45,347	46,800	47,400	47,700	48,200	48,750	49,300	49,850	50,400	50,950	51,500	52,050
Domestic disappearance	33,345	34,300	34,700	35,100	35,600	36,100	36,600	37,100	37,600	38,100	38,600	39,100
Exports	11,601	12,200	12,400	12,300	12,300	12,350	12,400	12,450	12,500	12,550	12,600	12,650
Total use	44,946	46,500	47,100	47,400	47,900	48,450	49,000	49,550	50,100	50,650	51,200	51,750
Ending stocks, September 30	401	300	300	300	300	300	300	300	300	300	300	300
Soybean meal price (dollars per ton)	316.88	315.00	325.00	337.00	337.00	339.00	339.00	343.00	349.00	349.00	350.00	350.00
Crushing yields (pounds per bushel)												
Soybean oil	11.63	11.56	11.57	11.58	11.59	11.60	11.61	11.62	11.63	11.64	11.65	11.66
Soybean meal	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00
Crush margin (dollars per bushel)	1.75	2.09	2.28	2.57	2.63	2.68	2.74	2.79	2.84	2.89	2.92	3.00

Note: Totals may not add due to rounding. Marketing year beginning September 1 for soybeans; October 1 for soybean oil and soybean meal.
1/ Reflects biodiesel made from methyl ester as reported by the U.S. Department of Energy, Energy Information Administration.

Acres for major field crops and Conservation Reserve Program (CRP) assumptions, long-term projections

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
	Million acres											
Planted acreage, eight major crops												
Corn	94.0	90.4	91.0	90.0	90.0	89.5	89.5	88.5	88.5	88.0	87.5	87.5
Sorghum	6.7	5.7	6.7	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
Barley	3.1	2.5	3.0	3.0	3.0	3.0	2.9	2.9	2.9	2.9	2.9	2.9
Oats	2.8	2.6	2.9	2.7	2.7	2.7	2.6	2.6	2.6	2.5	2.5	2.5
Wheat	50.1	46.0	45.0	46.0	47.0	47.0	47.0	48.0	48.0	48.0	48.0	48.0
Rice	3.2	2.5	2.9	2.8	2.8	2.8	2.9	2.9	2.9	2.9	2.9	2.9
Upland cotton	9.9	12.4	11.2	10.5	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4
Soybeans	83.4	90.2	91.0	91.0	91.5	92.0	92.0	92.0	91.5	91.5	91.5	91.5
Total	253.1	252.3	253.7	252.6	254.3	254.4	254.4	253.5	254.1	253.6	253.2	253.3
CRP acreage assumptions												
Total CRP	23.8	23.5	23.9	24.0	24.0	23.9	24.0	24.0	23.9	24.0	23.9	23.9
Total planted plus CRP	276.9	275.8	277.6	276.6	278.3	278.4	278.3	277.4	278.0	277.6	277.2	277.3
Harvested acreage, eight major crops												
Corn	86.7	83.1	83.7	82.7	82.7	82.2	82.2	81.2	81.2	80.7	80.2	80.2
Sorghum	6.2	5.0	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
Barley	2.6	2.0	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.5
Oats	1.0	0.8	1.1	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9
Wheat	43.9	37.6	38.3	39.1	40.0	40.0	40.0	40.0	40.8	40.8	40.8	40.8
Rice	3.1	2.4	2.9	2.8	2.8	2.8	2.8	2.9	2.9	2.9	2.9	2.9
Upland cotton	9.3	11.1	9.8	9.2	9.4	9.5	9.5	9.6	9.7	9.8	9.9	10.0
Soybeans	82.7	89.5	90.1	90.1	90.5	91.0	91.0	91.0	90.5	90.5	90.5	90.5
Total	235.5	231.5	234.2	233.2	234.7	234.8	234.7	233.9	234.3	233.8	233.4	233.5

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Subject: 2018/19 USDA Updated Baseline Acres + Ending Stocks

USDA ESTIMATES 2018/19 U.S. CORN PLANTINGS AT 91.0 MILLION ACRES, CROP AT 14.520 BILLION BUSHELS

USDA ESTIMATES 2018/19 U.S. SOYBEAN PLANTINGS AT 91.0 MILLION ACRES, CROP AT 4.360 BILLION BUSHELS

USDA ESTIMATES 2018/19 U.S. ALL-WHEAT PLANTINGS AT 45.0 MILLION ACRES, CROP AT 1.815 BILLION BUSHELS

USDA FORECASTS 2018/19 U.S. CORN END STOCKS AT 2.607 BILLION BU, SOY END STOCKS AT 376 MILLION BU, WHEAT END STOCKS AT 813 MILLION BU



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