Ag Equipment Intelligence

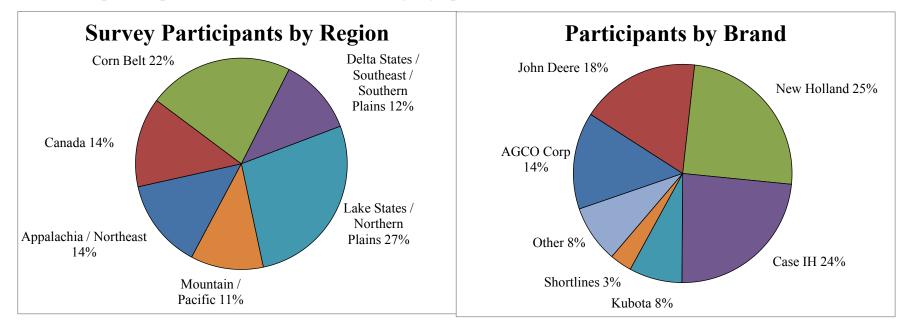
March 2017 Dealer Sentiments & Business Conditions Update

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Monthly Ag Equipment Intelligence North American Dealer Survey

Background:

- We are pleased to announce the results of the February Ag Equipment Intelligence survey conducted in partnership with Cleveland Research Company. We hope this monthly survey will provide valuable and timely insight into industry trends and fundamentals.
- The February survey had ~140 respondents representing combined annual revenues of roughly \$5 billion. Participants represent a broad cross section of geographies and brands are summarized in the charts below.



Appalachia / Northeast – CT, DE, KY, MA, MD, ME, NC, NH, NY, NJ, PA, RI, TI, TN, VA, VT, WV, Corn Belt – IL, IN, IA, MO, OH, Delta States / Southeast / Southern Plains – AL, AR, FL, GA, LA, MS, OK, SC, TX, Lake States / Northern Plains – KS, MI, MN, NE, ND, SD, WI, Mountain / Pacific – AK, AZ, CA, CO, HI, ID, MT, NM, NV, OR, UT, WA, WY. Note AGCO represents Massey Ferguson and Challenger brands.

Source: Farm Equipment Magazine Survey

Highlights / Summary Thoughts

- Sales Average dealer sales were reported down 5% y/y in February, an improvement from January, as a net 20% of dealers missed their sales budget vs the 9% that missed last month. A net 20% of dealers reported a sales decline in the month, better than the net 25% citing a decline in January. Commercial and consumer lawn equipment sales continue to show strength, while large equipment demand remains weak.
- **Outlook** –The 2017 sales forecast improved to down 2%, better than the 4% declines forecast over the past several months. Cash receipt forecasts improved slightly and sentiment has grown more optimistic over the last ~4 months.
- **Inventory** A net 37% of dealers reported new equipment inventories as too high, inline with January. Used equipment inventories were better than expected as a net 28% of dealers reported used inventory as too high, much better than the 42% last month.
- **Pricing** Dealers reported relatively flat new equipment pricing as OEM price increases have been offset by greater discounting at the dealer level. Used equipment values improved in the month with large tractor pricing reported down ~3% y/y, better than the down 5% reported in January. Used combine pricing was down 6% y/y vs down 9% in January.

Monthly Sales Growth

- Average dealer sales were reported down 5% y/y in February, an improvement from the 6% declines in January. A net 20% of dealers missed their sales budgets in February, compared to the 9% that missed last month.
- We have seen an improvement in sentiment over the past few months with a net 1% of dealers reporting they are more optimistic about overall business conditions.

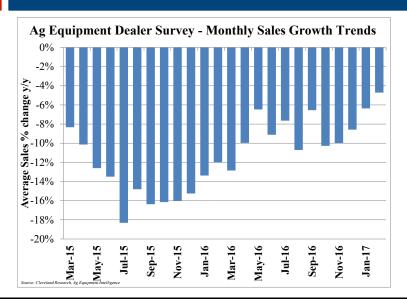
							N. Am	erican Fa	rm Equip	ment Deal	er Survey	- Average	e Dealer S	ales Grov	wth									
% Change y/y	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17
AGCO	-8%	-1%	4%	-12%	-24%	-13%	-14%	-22%	-27%	-9%	0%	-7%	-18%	-4%	-1%	-19%	-7%	-22%	-12%	-12%	-12%	-5%	-13%	-4%
John Deere	-8%	-11%	-15%	-14%	-19%	-14%	-15%	-16%	-12%	-16%	-11%	-11%	-13%	-11%	-6%	-8%	-16%	-17%	-4%	-9%	-11%	-6%	-1%	-7%
New Holland	-3%	-2%	-7%	-5%	-17%	-12%	-23%	-14%	-13%	-15%	-11%	-10%	-15%	-16%	2%	-3%	-8%	-11%	-12%	-14%	-9%	-15%	-7%	2%
Case IH	-13%	-16%	-19%	-19%	-17%	-19%	-20%	-19%	-22%	-18%	-18%	-20%	-15%	-9%	-19%	-8%	-5%	-11%	-8%	-11%	-11%	-14%	-8%	-4%
Kubota	-4%	-1%	0%	0%	0%	-3%	-2%	2%	-5%	-13%	-8%	0%	8%	2%	6%	2%	8%	1%	4%	1%	-1%	5%	-5%	2%
Shortlines/Other	-18%	-8%	-6%	-16%	-7%	-38%	-7%	-9%	-8%	-8%	-9%	-1%	-4%	-6%	-7%	-4%	8%	-22%	-22%	-11%	-7%	-14%	-9%	5%
Total	-8%	-10%	-13%	-13%	-18%	-15%	-16%	-16%	-16%	-15%	-13%	-12%	-13%	-10%	-6%	-9%	-8%	-11%	-7%	-10%	-10%	-9%	-6%	-5%

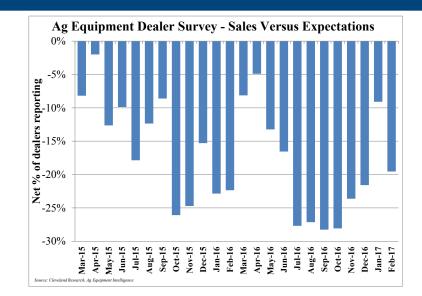
Source: Cleveland Research, Ag Equipment Intelligence

							N.A	merican F	arm Equi	pment Dea	aler Surv	ey - Sales	Versus Ex	spectation	15									
% of Dealers Reporting	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17
Better than expected	20%	27%	23%	21%	18%	16%	19%	15%	12%	19%	12%	15%	20%	24%	21%	22%	15%	14%	14%	16%	8%	11%	16%	11%
In line with expectations	50%	44%	39%	48%	45%	56%	53%	43%	51%	47%	52%	47%	52%	48%	46%	40%	43%	44%	44%	40%	61%	57%	59%	58%
Worse than expected	28%	29%	36%	31%	36%	28%	28%	41%	37%	34%	35%	38%	28%	29%	34%	38%	42%	41%	42%	44%	31%	32%	25%	31%
Net % (Better - Worse)	-8%	-2%	-13%	-10%	-18%	-12%	-9%	-26%	-25%	-15%	-23%	-22%	-8%	-5%	-13%	-17%	-28%	-27%	-28%	-28%	-24%	-22%	-9%	-20%

Source: Cleveland Research, Ag Equipment Intelligence

Monthly Sales Growth Continued





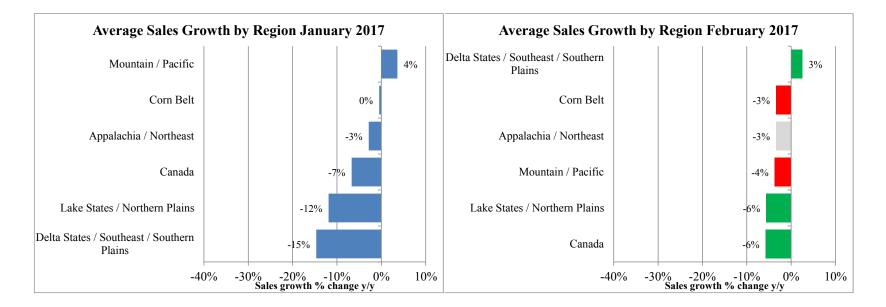
						N.	America	n Farm E	quipment	Dealer Su	rvey - Ave	rage Dea	ler Reven	ue Growth	ı Trends									
% of Dealers Reporting	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17
Positive Sales Growth	20%	27%	29%	26%	20%	19%	24%	20%	16%	18%	14%	20%	23%	27%	29%	27%	20%	19%	22%	18%	20%	26%	27%	25%
Flat Sales	50%	11%	17%	11%	16%	16%	16%	15%	17%	10%	22%	20%	17%	23%	16%	23%	21%	19%	22%	15%	23%	17%	22%	31%
Negative Sales Growth	28%	62%	54%	63%	64%	65%	60%	65%	67%	72%	64%	60%	60%	50%	55%	50%	59%	62%	56%	67%	58%	58%	52%	45%
Net % Reporting Growth	-8%	-35%	-25%	-37%	-43%	-46%	-35%	-46%	-52%	-54%	-50%	-40%	-37%	-23%	-26%	-23%	-39%	-43%	-33%	-48%	-38%	-32%	-25%	-20%
Average % Change y/y	-8%	-10%	-13%	-13%	-18%	-15%	-16%	-16%	-16%	-15%	-13%	-12%	-13%	-10%	-6%	-9%	-8%	-11%	-7%	-10%	-10%	-9%	-6%	-5%
Source: Cleveland Research																								

									Ontir	nism/Sent	iment vs.	Last Mon	th											
% of Dealers Reporting	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	-					Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17
More Optimistic	14%	14%	12%	13%	14%	11%	12%	8%	10%	8%	11%	13%	17%	15%	22%	11%	16%	11%	14%	13%	15%	17%	31%	21%
Same	42%	47%	48%	58%	52%	45%	51%	60%	52%	48%	46%	51%	55%	59%	51%	60%	44%	52%	49%	53%	60%	58%	48%	60%
Less Optimistic	43%	40%	40%	30%	35%	43%	37%	33%	38%	44%	43%	36%	28%	26%	27%	30%	40%	36%	38%	34%	25%	26%	20%	19%
Net % Dealer Optimism	-29%	-26%	-26%	-18%	-21%	-32%	-26%	-25%	-28%	-35%	-31%	-24%	-11%	-11%	-4%	-19%	-24%	-25%	-24%	-21%	-10%	-9%	11%	1%

Source: Cleveland Research

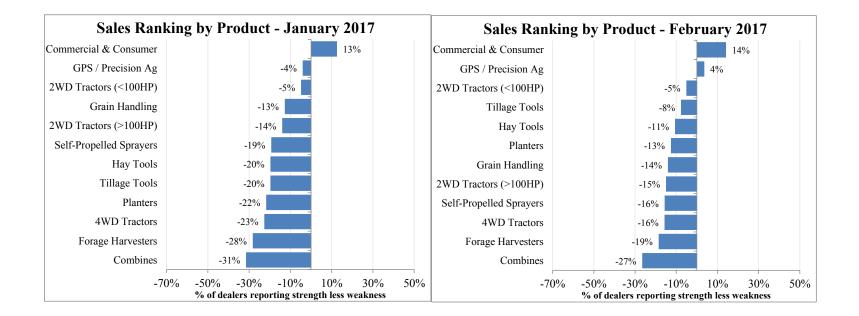
Monthly Sales Growth by Region

 Sales trends by region were mixed in the month. The Delta States/ Southeast/ Southern Plains, Lake States/ Northern Plains, and Canada regions improved from January's reading, as the Delta States/ Southeast/ Southern Plains region achieved growth for the first time in ~1 year. The Mountain/Pacific and Corn Belt regions saw some weakness from prior trend.

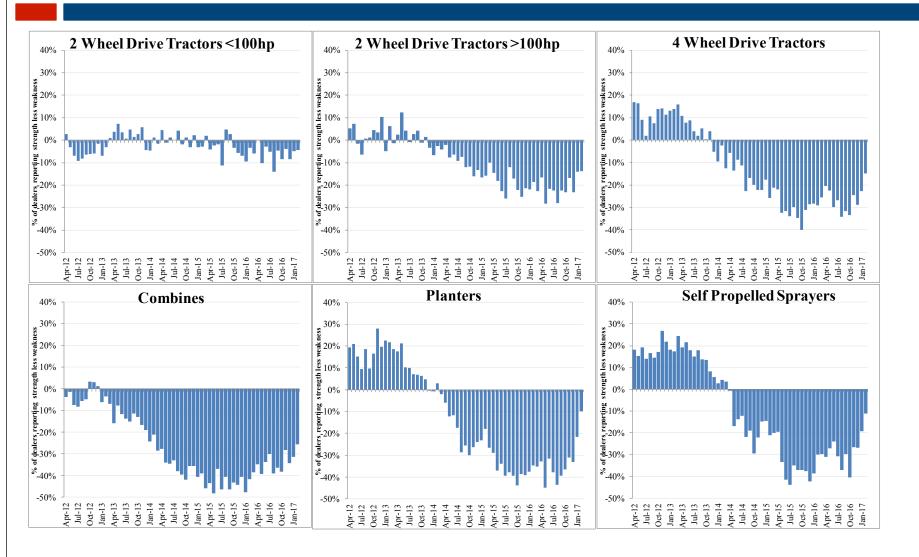


Equipment Category Sales Trends

Equipment saw an overall improvement as commercial & consumer lawn equipment continues to show strength in contrast to declines in other categories (planters, combines, sprayers, and harvesters in particular). While GPS / Precision AG sales trends deteriorated in 2H16, the category saw growth for the first time in 10 months. We have seen sequential improvement in large equipment sales over the last 2 months.

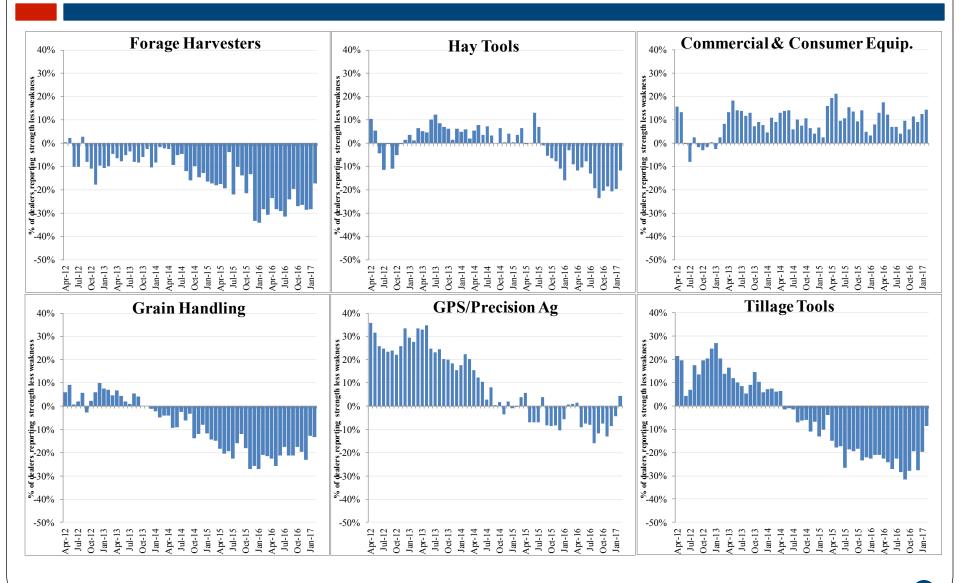


Equipment Category Sales Trends



Source: Ag Equipment Intelligence

Equipment Category Sales Trends (Continued)



Source: Ag Equipment Intelligence

Average Dealer Sales Outlook

- The 2017 sales growth forecast was reported at down 2%, better than last month's forecast following improvements in cash receipt forecasts over the past 3-4 months.
- The bottom table details the 2017 industry outlooks from Deere, CNHI, and AGCO. N. America industry forecasts are down 5-10% on average.

	N. American	Farm Equip	pment Deale	er Survey -	2017 Sales	s Forecast		
% change y/y	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17
AGCO	-1%	-2%	-20%	-10%	-8%	-2%	-1%	2%
John Deere	-11%	-4%	-15%	-1%	-6%	-5%	-3%	-3%
New Holland	-4%	-3%	-21%	-3%	-5%	-4%	-6%	-3%
Case IH	-14%	-6%	-20%	-12%	2%	-13%	-7%	-3%
Kubota	6%	-24%	4%	-3%	-6%	-2%	-8%	3%
Shortlines/Other	-3%	-5%	-19%	-2%	0%	-10%	1%	-2%
Overall	-8%	-7%	-8%	-5%	-4%	-4%	-4%	-2%

Source: Cleveland Research, Ag Equipment Intelligence

	2017 Ag	Equipment Industry Sales Outlook (units)	
Geography	Deere	CNH Industrial	AGCO Corp.
N. America	Down 5-10%	Tractors (5-10%), Combines (5-10%)	Down 5-10%; HHP Down 10%
Western Europe	Down~5%	Tractors (5%), Combines (5%)	Flat to Down 5%
Latin America	Up 15-20%	Tractors 15%, Combines 15%	Up 10%
CIS or ROW	na	na	na
Asia	Flat to up Slightly	Tractors 0-5%, Combines Flat	na

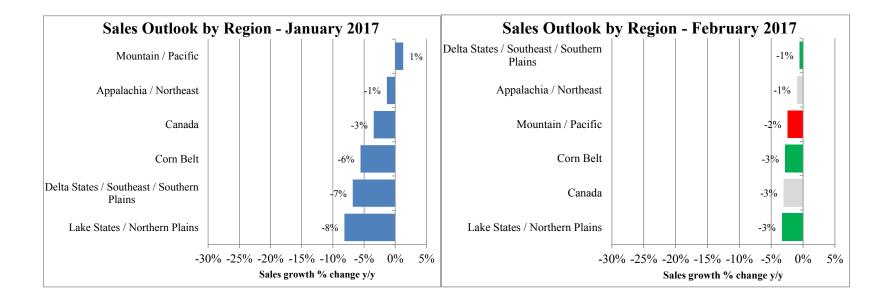
Source: Company reports, CRC estimates

Most Interesting Commentary - Monthly Sales and Outlook

- The strength seen at the end of 2016 has persisted through February. Our tractor and planter sales were strong this month.
- Depressed crop pricing across the farm economy continue to be a headwind, but lower hp used equipment is strong.
- Our new equipment sales were down y/y in February but parts and service revenue was up.
- We saw customers buying parts ahead of the spring season, but we are not seeing interest in whole goods just yet.
- The unseasonably warm weather in February led to increased traffic and quoting activity, but it hasn't translated to sales.
- Our manufacturer took away incentives, and our sales have suffered as a result.
- Local competitors are coming in at very low prices that are hard to match.
- Interest rates and residual values are increasing, while incentive programs are decreasing.
- Slight improvements in the dairy markets may spur hay tools sales in 2017.
- Large, high horsepower equipment inventory remains elevated particularly for tractors, combines, tillage tools, and harvesters.
- *Our 100hp tractor inventory is too low, but our total inventory is in good shape.*
- Our used inventory is too high attributed to softness in 4WD tractors, combines, and self-propelled sprayers.
- Reconditioning is at an all time high due to the amount of long-lease equipment returns coming in.
- Our margins on used equipment have improved and we expect that trend to continue for the balance of the year.
- Our backlog is very strong. Farmers were placing orders even if we didn't have what they wanted on the floor.
- Our tractor and hay tool sales were strong in February, and we expect to see growth rates accelerate in the spring.
- The pullback in manufacturer programs, higher interest rates, and lower commodity prices have left us less optimistic on 2017.
- Customers have grown accustomed to leasing programs and it will take some time for customers to choose buying over leasing.
- The few new equipment purchases we have seen so far in 2017 have been made out of necessity, similar to 2016.

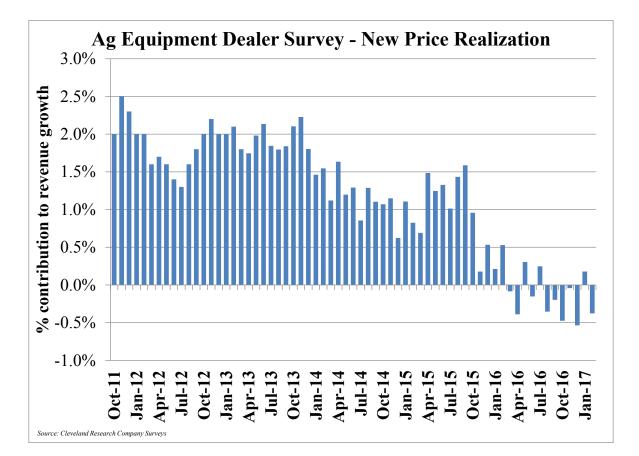
2017 Sales Outlook

• The 2017 outlook in February was similar to January with forecasts in the range of down 1% to down 3%. The Delta States / Southeast/ Southern Plains, Lake States/ Northern Plains, and Corn Belt regions forecasts improved in the month while the Mountain/ Pacific region forecast declined from last month. Dealers noted increased optimism with customers, but remain cautious as farmer income remains weak.



Pricing Trends

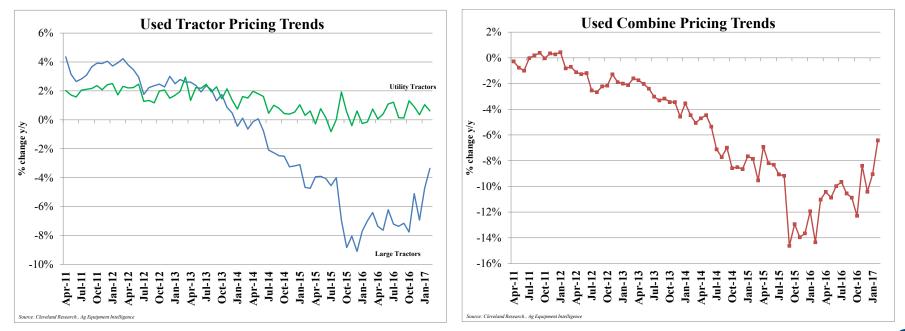
• Dealers reported relatively flat pricing over the last few months as incentive programs have more than offset list price increases. Commentary in the month suggests that OEMs are pulling back on incentive programs.



Used Equipment Pricing

• Pricing trends saw an overall improvement in the month. Large tractors were reported down 3% y/y, better than the 5% decline reported in January. Combine pricing also saw improvement with values reported down 6% y/y, vs the 9% decline in January.

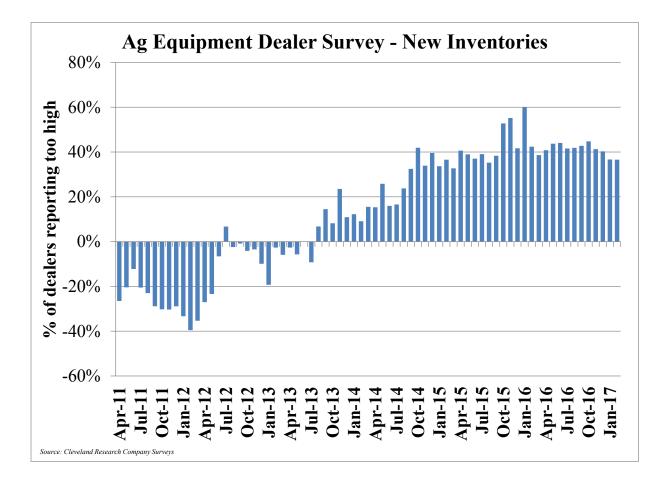
							Used Tra	actor and Co	mbine Valu	es (Y/Y)								
	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17
Compact (<40HP)	2%	1%	(1%)	0%	(1%)	0%	1%	0%	1%	2%	2%	1%	1%	2%	2%	1%	1%	1%
Utility (40-100HP)	2%	0%	(0%)	1%	0%	(1%)	0%	0%	0%	1%	1%	(0%)	(0%)	1%	0%	0%	1%	0%
Row Crop (100HP+)	(4%)	(6%)	(7%)	(7%)	(6%)	(5%)	(5%)	(6%)	(7%)	(5%)	(6%)	(6%)	(6%)	(6%)	(4%)	(5%)	(3%)	(2%)
4WD Tractors	(9%)	(11%)	(9%)	(11%)	(10%)	(9%)	(8%)	(8%)	(9%)	(8%)	(8%)	(9%)	(8%)	(10%)	(7%)	(9%)	(6%)	(4%)
Combines	(15%)	(13%)	(14%)	(14%)	(12%)	(14%)	(11%)	(10%)	(11%)	(10%)	(10%)	(11%)	(11%)	(12%)	(8%)	(10%)	(9%)	(6%)



Source: Ag Equipment Intelligence

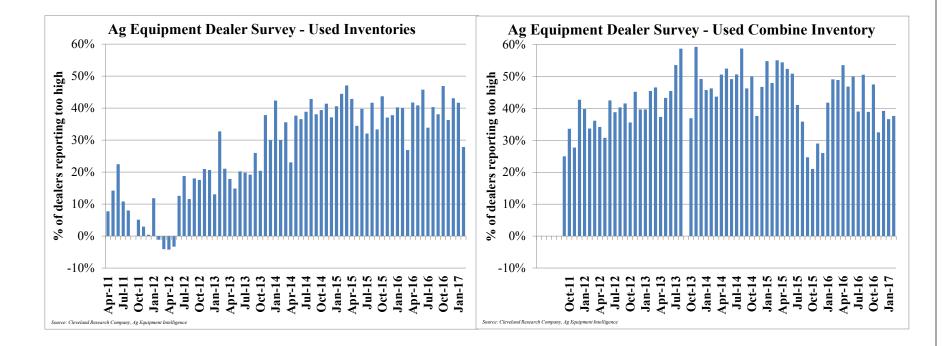
New Equipment Inventory Levels

• A net 37% of dealers reported new equipment inventories too high (40% too high, 57% about right, 3% too low), inline with January. New inventory levels have been elevated for over 3 years.



Used Equipment Inventory Levels

• A net 28% of dealers reported used equipment inventory as too high (38% too high, 51% about right, 11% too low), a notable improvement from the 42% reporting heightened inventory in January (52% too high, 39% about right, 10% too low), and the best reading since March 2016. Used combine inventory levels were reported as too high by a net 38% of dealers in February, compared to January's reading of 37%.



North American Farm Equipment Industry Retail Sales

					OKIHA	MERICAN	FARM EQUI	PMENT RE	I AIL SAL					
				Units						% char	ige year-ov	ær-year		
					Total	Row Crop						Total	Row Crop	
	<40 HP	Utility	Row Crop	4-Wheel	Tractor	& 4WD	Combines	<40 HP	Utility	Row Crop	4-Wheel	Tractor	& 4WD	Combines
Jan-14	4,755	4,152	3,303	631	12,841	3,934	824	1%	2%	12%	-7%	3%	8%	33%
Feb-14	5,308	3,745	2,423	575	12,051	2,998	526	4%	1%	-6%	-14%	0%	-8%	-15%
Mar-14	10,108	5,110	3,155	655	19,028	3,810	899	22%	3%	-9%	-7%	9%	-9%	-25%
Apr-14	14,191	6,010	3,752	745	24,698	4,497	996	2%	7%	-13%	-12%	0%	-13%	-13%
May-14	16,828	6,586	2,928	474	26,816	3,402	669	-2%	6%	-16%	-14%	-2%	-16%	-24%
Jun-14	15,245	6,488	2,733	408	24,874	3,141	837	13%	2%	-16%	-25%	5%	-18%	-25%
Jul-14	11,245	5,934	3,206	389	20,774	3,595	1,034	5%	7%	1%	-21%	4%	-2%	-30%
Aug-14	9,691	5,444	2,575	371	18,081	2,946	946	4%	9%	-9%	-37%	2%	-14%	-24%
Sep-14	11,333	6,193	3,276	492	21,294	3,768	1,142	32%	28%	-2%	-14%	23%	-4%	-11%
Oct-14	10,950	7,085	4,920	733	23,688	5,653	983	14%	6%	-17%	-40%	1%	-21%	-41%
Nov-14	5,857	4,177	1,891	354	12,279	2,245	450	4%	8%	-29%	-45%	-4%	-32%	-50%
Dec-14	8,089	7,473	3,730	512	19,804	4,242	920	6%	8%	-24%	-47%	-3%	-28%	-40%
Jan-15	5,382	4,506	3,124	220	13,232	3,344	384	13%	9%	-5%	-65%	3%	-15%	-53%
Feb-15	5,305	3,250	1,955	348	10,858	2,303	399	0%	-13%	-19%	-39%	-10%	-23%	-24%
Mar-15	9,702	4,799	2,539	499	17,539	3,038	470	-4%	-6%	-20%	-24%	-8%	-20%	-48%
Apr-15	16,624	6,461	3,131	430	26,646	3,561	664	17%	8%	-17%	-42%	8%	-21%	-33%
May-15	16,028	5,643	1,994	260	23,925	2,254	549	-5%	-14%	-32%	-45%	-11%	-34%	-18%
Jun-15	15,679	6,526	2,409	300	24,914	2,709	502	3%	1%	-12%	-26%	0%	-14%	-40%
Jul-15	14,372	7,039	2,469	268	24,148	2,737	806	28%	19%	-23%	-31%	16%	-24%	-22%
Aug-15	9,800	5,087	1,768	167	16,822	1,935	679	1%	-7%	-31%	-55%	-7%	-34%	-28%
Sep-15	10,917	5,348	1,934	249	18,448	2,183	845	-4%	-14%	-41%	-49%	-13%	-42%	-26%
Oct-15	12,897	6,792	3,266	515	23,470	3,781	796	18%	-4%	-34%	-30%	-1%	-33%	-19%
Nov-15	6,112	3,728	1,159	222	11,221	1,381	343	4%	-11%	-39%	-37%	-9%	-38%	-24%
Dec-15	8,755	6,376	2,567	516	18,214	3,083	883	8%	-15%	-31%	1%	-8%	-27%	-4%
Jan-16	5,946	4,250	1,981	243	12,420	2,224	455	10%	-6%	-37%	10%	-6%	-33%	18%
Feb-16	6,429	3,372	1,185	222	11,208	1,407	241	21%	4%	-39%	-36%	3%	-39%	-40%
Mar-16	12,453	5,136	1,909	259	19,757	2,168	350	28%	7%	-25%	-48%	13%	-29%	-26%
Apr-16	17,713	5,586	2,548	337	26,184	2,885	465	7%	-14%	-19%	-22%	-2%	-19%	-30%
May-16	17,201	5,634	1,976	234	25,045	2,210	333	7%	0%	-1%	-10%	5%	-2%	-39%
Jun-16	15,794	6,594	1,974	223	24,585	2,197	567	1%	1%	-18%	-26%	-1%	-19%	13%
Jul-16	13,344	5,418	1,833	152	20,747	1,985	619	-7%	-23%	-26%	-43%	-14%	-27%	-23%
Aug-16	11,600	5,068	1,315	102	18,085	1,417	563	18%	0%	-26%	-39%	8%	-27%	-17%
Sep-16	12,632	5,491	1,768	203	20,094	1,971	621	16%	3%	-9%	-18%	9%	-10%	-27%
Oct-16	13,850	6,819	2,722	612	24,003	3,334	579	7%	0%	-17%	19%	2%	-12%	-27%
Nov-16	7,382	3,656	907	205	12,150	1,112	294	21%	-2%	-22%	-8%	8%	-19%	-14%
Dec-16	10,343	6,326	2,071	328	19,068	2,399	687	18%	-1%	-19%	-36%	5%	-22%	-22%
Jan-17	6,821	3,854	1,396	147	12,218	1,543	289	15%	-9%	-30%	-40%	-2%	-31%	-36%
Feb-17	7,868	3,319	1,335	199	12,721	1,534	276	22%	-2%	13%	-10%	13%	9%	15%

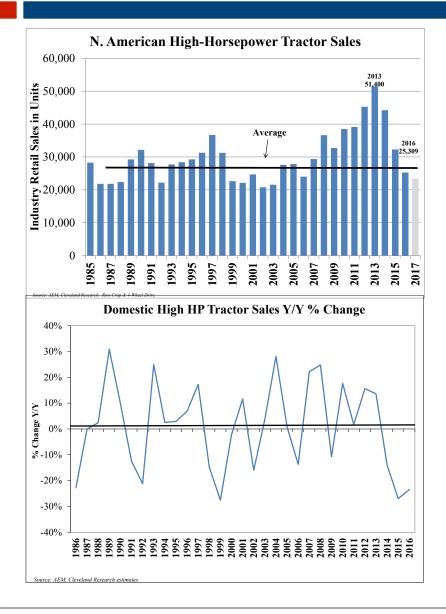
Source: AEM; Cleveland Research Company estimates. High hp tractors are row crop & 4-wheel drive.

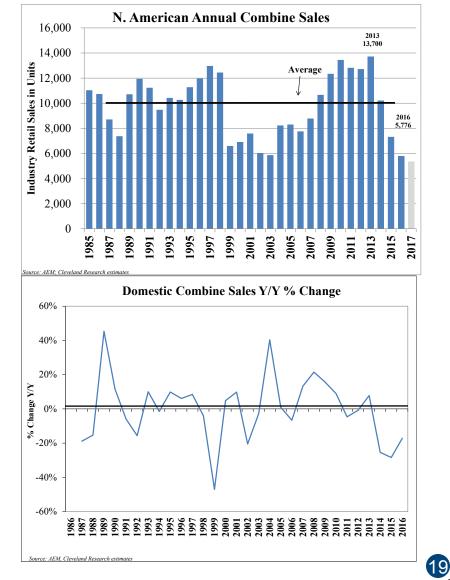
North American Farm Equipment Industry Inventory

			Inv	entory (Uni	ts)					Invento	ory to 12-m	o. Sales		
				j (Total	Row Crop						Total	Row Crop	
	<40 HP	Utility	Row Crop	4-Wheel	Tractor		Combines	<40HP	Util	RC	4-WD	Tractor	& 4WD	Comb
Dec-13	67,863	32,028	13,318	2,049	115,258	15,367	2,083	59%	50%	31%	24%	50%	30%	15%
Jan-14	69,111	33,240	12,620	2,028	116,999	14,648	1,681	60%	52%	29%	24%	51%	28%	12%
Feb-14	71,514	34,326	13,267	2,046	121,153	15,313	2,063	62%	54%	31%	25%	53%	30%	15%
Mar-14	71,249	35,256	14,058	2,218	122,781	16,276	2,456	61%	55%	33%	27%	53%	32%	18%
Apr-14	69,986	35,615	13,298	2,117	121,016	15,415	2,467	60%	55%	31%	26%	52%	31%	18%
May-14	66,364	34,755	13,505	2,255	116,879	15,760	2,734	57%	54%	32%	28%	51%	32%	21%
Jun-14	62,025	34,004	14,531	2,294	112,854	16,825	3,101	53%	52%	35%	29%	49%	34%	24%
Jul-14	61,829	34,393	14,836	2,159	113,217	16,995	3,144	52%	53%	36%	27%	49%	35%	25%
Aug-14	62,466	35,692	15,060	2,193	115,411	17,253	3,360	53%	54%	37%	29%	49%	36%	28%
Sep-14	61,811	35,926	16,185	2,399	116,321	18,584	2,891	51%	54%	40%	32%	49%	38%	24%
Oct-14	63,713	35,965	14,640	1,802	116,120	16,442	2,187	52%	53%	37%	25%	49%	35%	19%
Nov-14	67,691	37,110	14,840	1,652	121,293	16,492	2,046	55%	55%	38%	24%	51%	36%	19%
Dec-14	69,876	35,550	14,638	1,426	121,490	16,064	1,674	57%	52%	39%	22%	51%	36%	16%
Jan-15	73,716	35,405	13,934	1,439	124,494	15,373	1,713	59%	51%	37%	24%	53%	35%	18%
Feb-15	78,177	36,676	13,981	1,436	130,270	15,417	1,820	63%	54%	38%	25%	55%	36%	19%
Mar-15	81,662	37,881	14,179	1,346	135,068	15,525	2,040	66%	56%	39%	24%	58%	37%	22%
Apr-15	80,348	37,047	13,193	1,353	131,941	14,546	2,116	64%	54%	37%	26%	56%	35%	24%
May-15	78,880	37,037	13,177	1,400	130,494	14,577	2,058	63%	55%	38%	28%	56%	36%	23%
Jun-15	76,286	36,584	13,006	1,416	127,292	14,422	2,276	61%	54%	37%	29%	55%	36%	27%
Jul-15	72,876	35,232	12,507	1,354	121,969	13,861	2,218	56%	51%	37%	28%	52%	36%	27%
Aug-15	74,247	36,442	12,555	1,343	124,587	13,898	2,232	58%	53%	38%	29%	53%	37%	28%
Sep-15	65,844	37,545	12,551	1,374	117,314	13,925	2,001	51%	56%	39%	32%	51%	38%	26%
Oct-15	75,042	37,885	11,906	1,266	126,099	13,172	1,504	57%	56%	39%	31%	54%	38%	20%
Nov-15	79,228	39,911	12,983	1,317	133,439	14,300	1,492	61%	60%	44%	33%	58%	43%	20%
Dec-15	82,737	41,363	13,140	1,189	138,429	14,329	1,277	63%	63%	46%	30%	60%	44%	17%
Jan-16	86,618	42,352	12,727	1,129	142,826	13,856	1,169	66%	65%	47%	28%	62%	44%	16%
Feb-16	92,071	44,704	13,298	1,097	151,170	14,395	1,281	69%	68%	50%	28%	66%	48%	18%
Mar-16	93,703	45,127	13,327	1,131	153,288	14,458	1,281	69%	69%	52%	31%	66%	49%	18%
Apr-16	90,381	44,499	13,136	1,115	149,131	14,251	1,312	66%	69%	52%	31%	65%	50%	19%
May-16	86,451	43,931	13,015	1,152	144,549	14,167	1,492	63%	68%	52%	33%	62%	49%	22%
Jun-16	82,264	42,688	12,928	1,005	138,885	13,933	1,593	59%	66%	52%	29%	60%	49%	24%
Jul-16	81,046	41,621	12,765	920	136,352	13,685	1,580	59%	66%	53%	28%	60%	50%	24%
Aug-16	79,823	41,683	12,962	998	135,466	13,960	1,671	57%	66%	55%	30%	59%	52%	26%
Sep-16	78,438	41,007	12,671	1,103	133,219	13,774	1,428	56%	65%	54%	34%	58%	52%	23%
Oct-16	77,609	39,058	11,417	1,013	129,097	12,430	1,118	55%	62%	50%	30%	56%	47%	19%
Nov-16	80,250	39,972	12,075	1,059	133,356	13,134	1,105	56%	63%	53%	32%	57%	51%	19%
Dec-16	81,456	39,339	11,955	985	133,735	12,940	1,082	56%	62%	54%	32%	57%	51%	19%
Jan-17	83,153	39,248	11,838	1,024	135,263	12,862	1,099	57%	62%	55%	34%	58%	52%	20%

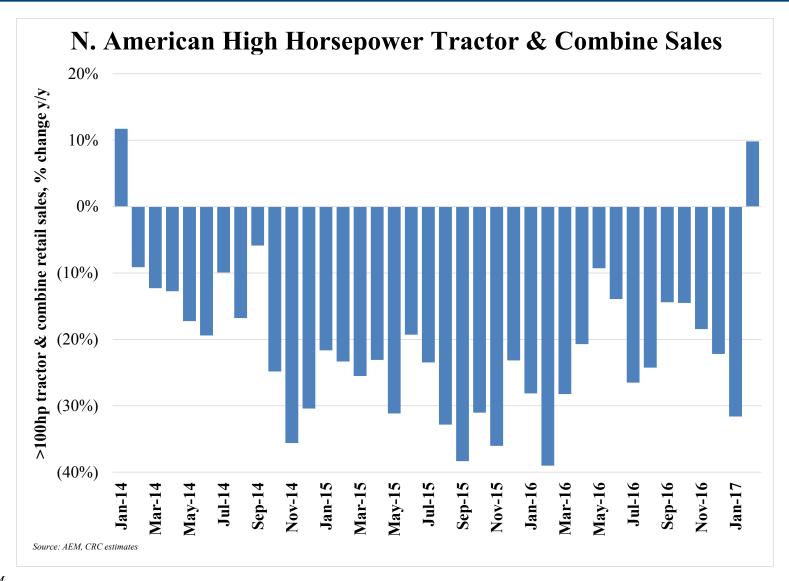
Source: AEM; Cleveland Research Company estimates

Annual Agricultural Equipment Industry Sales (1985 - 2016)





North America Large Ag Equipment Sales



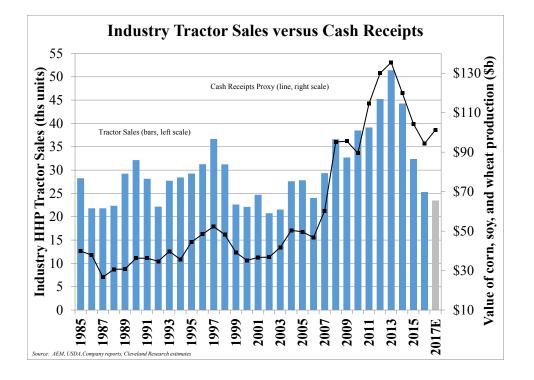
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Source: AEM

Commodity Prices – Cash Receipts vs. Next Year Equipment Sales

USDA's March WASDE Update Highlights – The following chart illustrates the historical relationship between the value of production of corn, soybeans, and wheat in the U.S. compared to annual industry sales of high horsepower tractors.

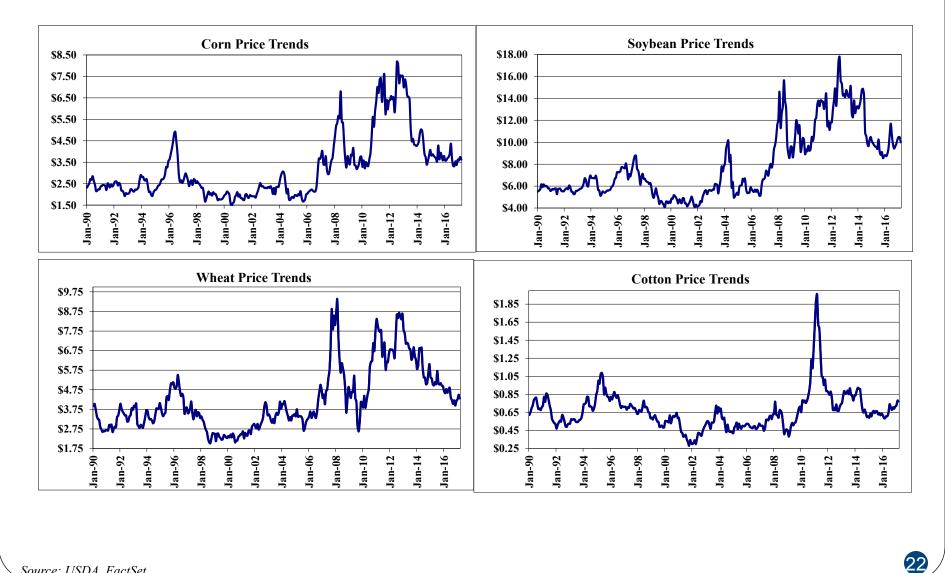
USDA's March crop report improved from February, with cash receipts proxy forecast up 8% y/y in 2016/2017. Soybean average pricing estimates were raised 1% from last month.



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Source: USDA, CRC estimates

Long Term Commodity Price Trends



Commodity Trends – Long Run Supply and Demand Projections

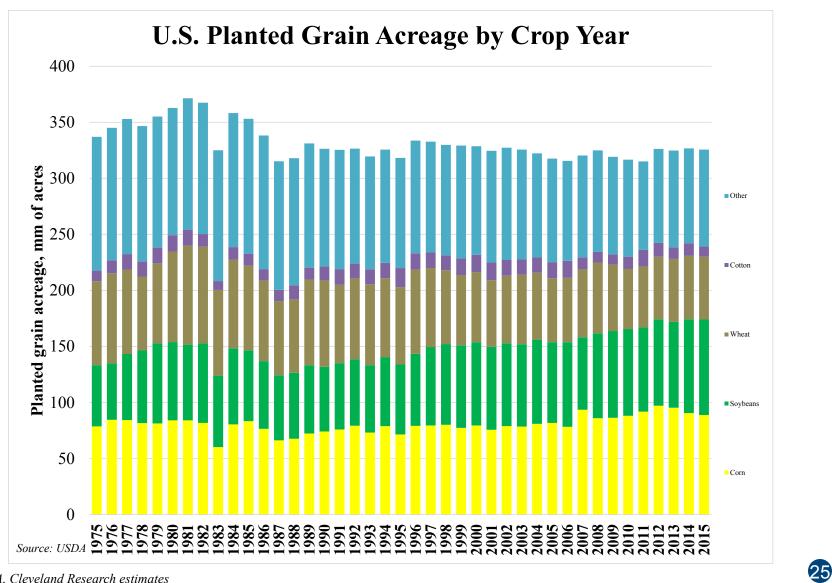
		US Corn,	Soy, and W	heat Suppl	y and Der	nand - Lor	ng Term A	nnual For	ecast 2017	7				
US Corn Balance Sheet - USDA Long T	erm Forecast	(Feb 2017)			-									
Millions of bushels	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/2027
Planted	95	91	88	94	90				88	88	87	87	87	
Harvested	88	83	81	87	82				80	80	79	79	79	
Yield (bu/acre)	158	171	168	175	171	173	175	177	179	181	183	185	187	189
Beginning Stocks (MM bu)	821	1,232	1,731	1,737	2,403	2,298	2,213	2,193	2,104	2,033	2,023	1,933	1,923	1,896
Production (MM bu)	13,829	14,216	13,601	15,148	14,060	14,135	14,300	14,285	14,360	14,520	14,495	14,655	14,719	14,784
Imports (MM bu)	36	32	67	55	50	50	50	50	50	50	50	50	50	50
Total Supply (MM bu)	14,686	15,480	15,399	16,940	16,513	16,483	16,563	16,528	16,514	16,603	16,568	16,638	16,692	16,730
Feed & Residual (MM Bu)	5,036	5,315	5,130	5,550	5,500	5,500	5,600	5,625	5,700	5,800	5,850	5,950	6,025	6,075
Food, Seed, & Industrial Total	6,501	6,568	6,635	6,845	6,765	6,795	6,770	6,775	6,730	6,705	6,685	6,640	6,620	6,595
Ethanol & By-Products	5,134	5,209	5,206	5,400	5,325	5,350	5,325	5,325	5,275	5,250	5,225	5,175	5,150	5,125
Domestic Use	11,537	11,883	11,765	12,395	12,265	12,295	12,370	12,400	12,430	12,505	12,535	12,590	12,645	12,670
Exports	1,917	1,864	1,898	2,225	1,950	1,975	2,000	2,025	2,050	2,075	2,100	2,125	2,150	2,175
Total Use	13,454	13,747	13,663	14,620	14,215	14,270	14,370	14,425	14,480	14,580	14,635	14,715	14,795	14,845
Ending Stocks	1,232	1,731	1,738	2,320	2,298	2,213	2,193	2,104	2,033	2,023	1,933	1,923	1,896	1,885
Ending Stocks/Use	9.2%	12.6%	12.7%	15.9%	16.2%	15.5%	15.3%	14.6%	14.0%	13.9%	13.2%	13.1%	12.8%	12.7%
Weeks Carryover	4.8	6.5	6.6	8.3	8.4	8.1	7.9	7.6	7.3	7.2	6.9	6.8	6.7	6.6
Average Farm Price (\$/bu)	\$4.46	\$3.70	\$3.61	\$3.40	\$3.30	\$3.35	\$3.35	\$3.45	\$3.50	\$3.55	\$3.60	\$3.65	\$3.65	\$3.70
Value of Production	\$61,677	\$52,599	\$49,100	\$51,503	\$46,398	\$47,352	\$47,905	\$49,283	\$50,260	\$51,546	\$52,182	\$53,491	\$53,724	\$54,701
% change y/y	-17%	-15%	-7%	5%	-10%	2%	1%	3%	2%	3%	1%	3%	0%	2%
U.S. Soybean Balance Sheet - USDA Lo Millions of bushels	2013/14	2014/15	2015/16				2019/20			2022/23	2023/24	2024/25		2026/2027
Planted	77	83	83	83	86					85	85	85	85	
Harvested	76	83	82	83	85				84	84	84	84	84	
Yield Per Harvested Acre (Bushels)	44	48	48	52	48	48	49	49	50	50	51	51	52	52
Beginning Stocks	141	92	191	197	480	396	326	306	291	300	309	317	330	338
Production	3,358	3,927	3,926	4,307	4,050	4,070	4,090	4,130	4,195	4,240	4,280	4,325	4,365	4,405
Imports	72	33	24	25	30	30	30	30	30	30	30	30	30	30
Total Supplies	3,571	4,052	4,141	4,528	4,560	4,496	4,446	4,466	4,516	4,570	4,619	4,672	4,725	4,773
Crush	1,734	1,873	1,886	1,940	1,935	1,955	1,970	1,990	2,015	2,040	2,060	2,085	2,105	2,130
Exports	1,647	1,843	1,936	2,025	2,100	2,085	2,040	2,055	2,070	2,090	2,110	2,125	2,150	2,150
Seed & Residual	98	145	121	128	130	129	130	130	131	131	132	132	132	132
Total Use	3,479	3,861	3.943	4,093	4.165	-	4,140	4,175	4,216	4.261	4,302	4,342	4,387	4,412
Ending Stocks	3,479 92	3,001 191	3,943 197	4,095	4,103	,		,	4,210	4,201 309	4,302 317	4,34 2 330	4,387	,
Stocks/Use	2.7%	4.9%	5.0%	10.6%	9.5%			7.0%	7.1%	7.2%	7.4%	7.6%	7.7%	8.2%
Average Price (\$/bu)	\$13.00	\$10.10	\$8.95	\$9.60	9.3% \$9.35		\$9.40	\$9.45	\$9.45	\$9.50	\$9.55	\$9.55	\$9.55	<u>8.2%</u> \$9.55
Value of Production		\$39,663	\$35,138		\$37,868					\$40,280	\$40,874	\$41,304	\$9.55	
value of Production	\$43,654	\$39,003	\$35,138	\$41,347	\$\$7,868	\$\$\$,258	\$\$\$,446	\$39,029	\$39,043	\$40,280	\$40,874	\$41,504	541,080	\$42,068
% change y/y	0%	-9%	-11%	18%	-8%	1%	0%	2%	2%	2%	1%	1%	1%	1%

Commodity Trends – Long Run Supply and Demand Projections (Cont.)

	US C	Corn, Soy, a	nd Wheat S	Supply and	Demand -	Long Ter	m Annual	Forecast	2017 (cont	tinued)				
U.S. Wheat Balance Sheet - USDA Long	Term Foreca	nst (Feb 201	7)											
Millions of bushels	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/2027
Planted	56	57	55	50	49	49	50	50	50	50	50	50	50	50
Harvested	45	46	47	44	41	42	42	42	42	42	42	42	42	42
Yield Per Harvested Acre (Bushels)	47	44	44	53	47	48	48	48	49	49	50	50	50	51
Beginning Stocks	718	590	752	976	1,143	993	892	832	784	742	707	679	658	654
Production	2,134	2,026	2,062	2,310	1,936	1,976	2,012	2,029	2,045	2,062	2,079	2,096	2,113	2,129
Imports	169	144	113	115	120	125	125	125	130	135	140	145	150	155
Total Supplies	3,021	2,760	2,927	3,400	3,199	3,094	3,029	2,986	2,959	2,939	2,926	2,920	2,921	2,938
Food	955	960	957	960	965	970	975	980	985	990	995	1,000	1,005	1,010
Seed	77	81	67	61	66	67	67	67	67	67	67	67	67	67
Feed&residual	223	111	152	225	200	190	180	170	170	170	170	170	170	170
Exports	1,176	855	775	1,025	975	975	975	985	995	1,005	1,015	1,025	1,025	1,035
Total Use	2,431	2,007	1,952	2,271	2,206	2,202	2,197	2,202	2,217	2,232	2,247	2,262	2,267	2,282
Ending Stocks	590	753	976	1,129	993	892	832	784	742	707	679	658	654	656
Stocks/Use	24.3%	37.5%	50.0%	49.7%	45.0%	40.5%	37.9%	35.6%	33.5%	31.7%	30.2%	29.1%	28.9%	28.8%
Average Price (\$/bu)	\$6.87	\$5.99	\$4.89	\$3.85	\$4.00	\$4.30	\$4.50	\$4.70	\$4.70	\$4.80	\$4.90	\$5.00	\$5.00	\$5.00
Value of Production	\$14,661	\$12,136	\$10,083	\$8,894	\$7,744	\$8,497	\$9,054	\$9,536	\$9,612	\$9,898	\$10,187	\$10,480	\$10,565	\$10,645
% change y/y	-16%	-17%	-17%	-12%	-13%	10%	7%	5%	1%	3%	3%	3%	1%	1%
Total A	creage and V	Value of U.S	. Corn. So	v and Whe	at Product	ion - USD	A Februa	v 2017 P	roiection					
Total Corn, Soy, Wheat	2013/14	2014/15		2016/17				e e	,	2022/23	2023/24	2024/25	2025/26	2026/2027
Planted (mm acres)	228	231	226	228	224	224	224	223	223	223	222	222	221	221
Harvested (mm acres)	209	212	210	213	208	208	207	206	206	206	205	205	205	204
Yield (bu/acre)	92	95	93	102	96	97	98	99	100	101	102	103	103	104
Production	19,321	20,169	19,589	21,765	20,046	20,181	20,402	20,444	20,600	20,822	20,854	21,076	21,197	21,318
Average Price (\$/bu)	\$6.21	\$5.18	\$4.81	\$4.67	\$4.59	\$4.66	\$4.68	\$4.79	\$4.83	\$4.89	\$4.95	\$4.99	\$5.00	\$5.04
Value of Production	\$119,992	\$104,398	\$94,320	\$101,744	\$92,010	\$94,107	\$95,405	\$97,848	\$99,514	\$101,724	\$103,243	\$105,275	\$105,975	\$107,414
% change y/y	-11%	-13%	-10%	8%	-10%	2%	1%	3%	2%	2%	1%	2%	1%	1%

Source: USDA, Cleveland Research estimates

U.S. Acreage Planted Per Crop Year



Source: USDA, Cleveland Research estimates