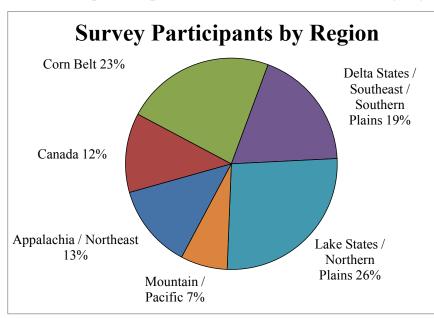
Ag Equipment Intelligence

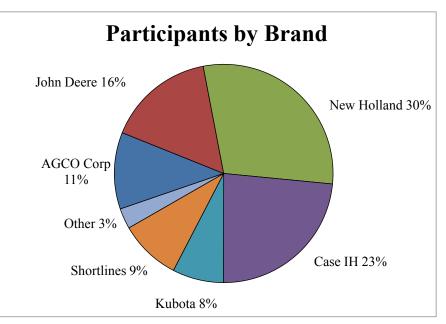
August 2017 Dealer Sentiments & Business Conditions Update

Monthly Ag Equipment Intelligence North American Dealer Survey

Background:

- We are pleased to announce the results of the July 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 July survey had ~160 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: Ag Equipment Intelligence

Highlights / Summary Thoughts

- Sales Average dealer sales were reported down 3% y/y in July, below the 2% declines in June. A net 19% of dealers missed their sales budgets in July, worse than the 3% that missed last month. Commercial and consumer lawn equipment and GPS / Precision ag sales showed strength, while large equipment demand remains weak.
- Outlook The 2017 sales growth forecast was reported down 3%, inline with the YTD average of down 3%, but below flat in June. A net 11% of dealers were less optimistic in July vs the net 4% more optimistic in June. The initial 2018 forecast is for flat growth- a net 26% of contacts expect growth in 2018 vs the 19% that expect declines in 2017.
- **Inventory** A net 32% of dealers reported new equipment inventories too high, worse than the 25% in June. Used equipment inventories remained elevated as a net 27% of dealers reported used inventory as too high, inline with the 26% last month. Overall, inventories have come down from 2016 levels.
- **Pricing** Dealers reported relatively flat new equipment pricing as OEM price increases have been offset by discounting at the dealer level. Used equipment values were mixed in the month with large tractors reported down 4% y/y, an improvement from the 5% decline reported in June. Combine pricing was inline with June at down 6% y/y.

Monthly Sales Growth

- Average dealer sales were reported down 3% y/y in July, below the 2% declines in June, but an improvement from the 4% average YTD. A net 19% of dealers missed their sales budgets in July vs the 3% that missed last month.
- A net 11% of dealers reported they are less optimistic, worse than the 4% reporting more optimism in June.

			N. Ame	erican Fa	rm Equip	ment Dea	ler Surv	ey - Avera	ge Deale	r Sales G	rowth					
% Change y/y	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
AGCO	-4%	-1%	-19%	-7%	-22%	-12%	-12%	-12%	-5%	-13%	-4%	-11%	-2%	-13%	-1%	-3%
John Deere	-11%	-6%	-8%	-16%	-17%	-4%	-9%	-11%	-6%	-1%	-7%	-1%	-4%	-1%	-1%	-2%
New Holland	-16%	2%	-3%	-8%	-11%	-12%	-14%	-9%	-15%	-7%	2%	-12%	-13%	-4%	-1%	-6%
Case IH	-9%	-19%	-8%	-5%	-11%	-8%	-11%	-11%	-14%	-8%	-4%	-5%	-3%	-16%	-2%	-5%
Kubota	2%	6%	2%	8%	1%	4%	1%	-1%	5%	-5%	2%	7%	2%	1%	0%	8%
Shortlines/Other	-6%	-7%	-4%	8%	-22%	-22%	-11%	-7%	-14%	-9%	5%	4%	-9%	-1%	-1%	-1%
Total	-10%	-6%	-9%	-8%	-11%	-7%	-10%	-10%	-9%	-6%	-5%	-5%	-5%	-5%	-2%	-3%

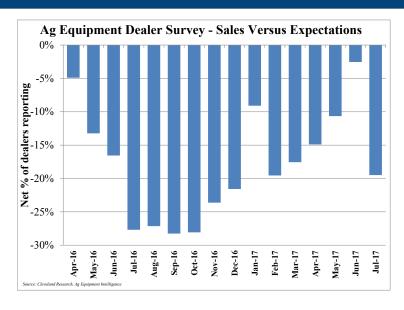
Source: Cleveland Research, Ag Equipment Intelligence

			N. An	nerican F	arm Equi	pment De	aler Sur	vey - Sale	s Versus	Expectat	ions					
% of Dealers Reporting	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
Better than expected	24%	21%	22%	15%	14%	14%	16%	8%	11%	16%	11%	12%	16%	19%	16%	16%
In line with expectations	48%	46%	40%	43%	44%	44%	40%	61%	57%	59%	58%	58%	54%	52%	65%	48%
Worse than expected	29%	34%	38%	42%	41%	42%	44%	31%	32%	25%	31%	30%	30%	30%	19%	36%
Net % (Better - Worse)	-5%	-13%	-17%	-28%	-27%	-28%	-28%	-24%	-22%	-9%	-20%	-18%	-15%	-11%	-3%	-19%

Source: Cleveland Research, Ag Equipment Intelligence

Monthly Sales Growth Continued





		N	American	Farm Eo	uipment	Dealer S	urvey - A	verage De	ealer Rev	enue Gro	wth Tren	ds				
% of Dealers Reporting	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
Positive Sales Growth	27%	29%	27%	20%	19%	22%	18%	20%	26%	27%	25%	32%	34%	39%	37%	33%
Flat Sales	23%	16%	23%	21%	19%	22%	15%	23%	17%	22%	31%	23%	19%	18%	32%	19%
Negative Sales Growth	50%	55%	50%	59%	62%	56%	67%	58%	58%	52%	45%	45%	47%	43%	32%	48%
Net % Reporting Growth	-23%	-26%	-23%	-39%	-43%	-33%	-48%	-38%	-32%	-25%	-20%	-13%	-13%	-4%	5%	-15%
Average % Change y/y	-10%	-6%	-9%	-8%	-11%	-7%	-10%	-10%	-9%	-6%	-5%	-5%	-5%	-5%	-2%	-3%

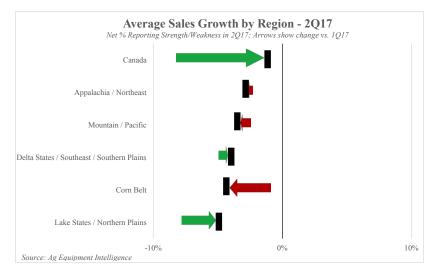
Source: Cleveland Research

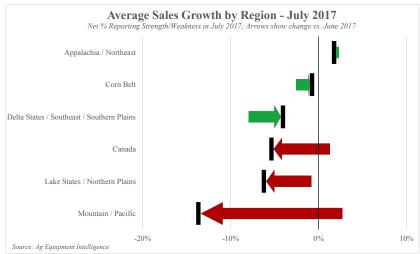
					Optir	nism/Sen	timent vs	. Last Mo	onth							
% of Dealers Reporting	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
More Optimistic	15%	22%	11%	16%	11%	14%	13%	15%	17%	31%	21%	26%	17%	19%	23%	21%
Same	59%	51%	60%	44%	52%	49%	53%	60%	58%	48%	60%	47%	53%	61%	58%	47%
Less Optimistic	26%	27%	30%	40%	36%	38%	34%	25%	26%	20%	19%	27%	30%	20%	19%	32%
Net % Dealer Optimism	-11%	-4%	-19%	-24%	-25%	-24%	-21%	-10%	-9%	11%	1%	-1%	-13%	-2%	4%	-11%

Source: Cleveland Research

Monthly Sales Growth by Region

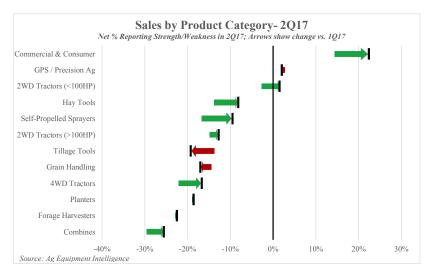
• Sales trends by region were mixed in the month. Trends in the Mountain Pacific region saw the greatest deterioration from June, while the Corn Belt region saw sequential improvement, consistent with prior trend. Sales growth by region in 2Q improved from 1Q with forecasts in the down 5% to down 1% range vs the down 8% to down 1% range in 1Q.

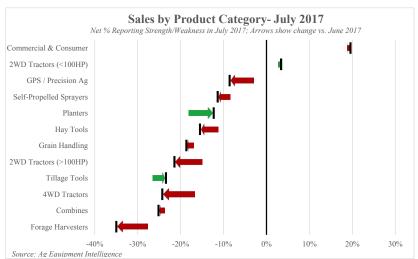




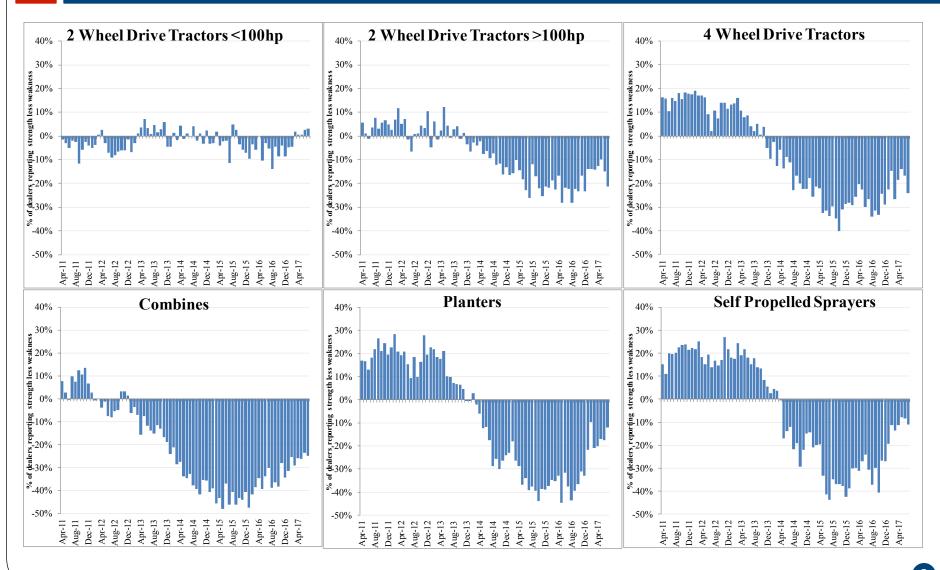
Equipment Category Sales Trends

• Commercial and consumer lawn equipment and GPS / Precision ag sales showed strength, while large equipment demand remains weak. Sequentially, the bulk of equipment category sales softened in July, with planters showing the greatest improvement from June. In 2Q, nine of twelve categories saw sequential improvement from 1Q compared to eleven categories improving from 4Q to 1Q.

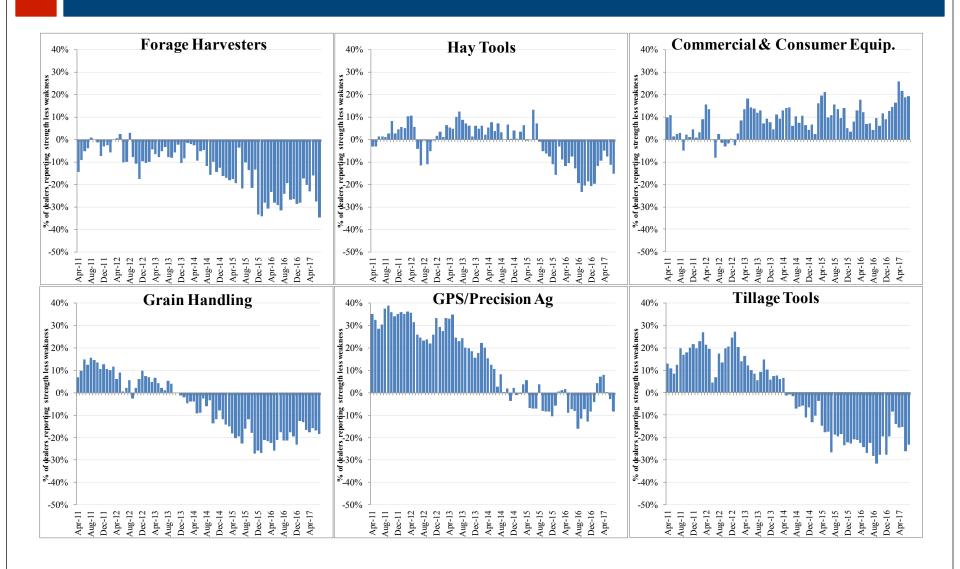




Equipment Category Sales Trends



Equipment Category Sales Trends (Continued)



Average Dealer Sales Outlook

- The 2017 sales growth forecast was reported down 3%, inline with the YTD average of down 3%, but below flat in June. Dealers are optimistic as inventory levels and farmer optimism have shown improvement, but remain cautious on commodity prices following a weaker than expected August WASDE report. The initial 2018 forecast is for flat growth, with a net 26% of contacts expecting growth in the year.
- The bottom table details the 2017 industry outlooks from Deere, CNHI, and AGCO. N. America industry forecasts are down 5-10% on average.

			N. Amo	erican Farı	n Equipmer	ıt Dealer Sı	ırvey - 2017	Sales Fore	ecast				
% change y/y	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
AGCO	-1%	-2%	-20%	-10%	-8%	-2%	-1%	2%	-5%	-3%	-6%	-4%	-6%
John Deere	-11%	-4%	-15%	-1%	-6%	-5%	-3%	-3%	-3%	0%	0%	3%	-4%
New Holland	-4%	-3%	-21%	-3%	-5%	-4%	-6%	-3%	-5%	-11%	-4%	0%	-2%
Case IH	-14%	-6%	-20%	-12%	2%	-13%	-7%	-3%	-6%	-4%	-3%	-6%	-6%
Kubota	6%	-24%	4%	-3%	-6%	-2%	-8%	3%	4%	1%	1%	3%	11%
Shortlines/Other	-3%	-5%	-19%	-2%	0%	-10%	1%	-2%	-6%	-10%	2%	0%	-3%
Overall	-8%	-7%	-8%	-5%	-4%	-4%	-4%	-2%	-4%	-4%	-2%	0%	-3%

Source: Cleveland Research, Ag Equipment Intelligence

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

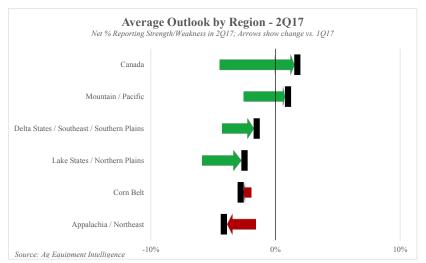
Source: Company reports, CRC estimates

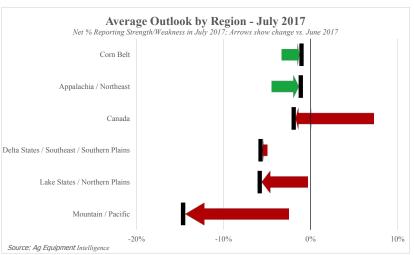
Most Interesting Commentary - Monthly Sales and Outlook

- Used equipment sales were a big driver to our sales growth in the month. Service and parts sales missed budget in the month.
- Our customers continue to be conservative buyers as commodity prices remain weak.
- We believe the lease return issue will persist despite what some may say. There are still a lot of low hour lease returns that we are dealing with.
- We expect new equipment sales to pick up as the equipment begins to age. We still expect a good portion of new buyers to go after low hour lease return deals rather than buying equipment.
- Our manufacturer continues to pull back on programs for used equipment. Our manufacturer cut back a three year warranty/ unlimited hours program to a two year/1500 hour limit.
- We are still struggling to move our used HHP tractors, combines, and sprayers. Our levels are still high, but are significantly lower than last year.
- Small tractor and lawnmower sales continue to be very strong into the consumer segment.
- Large tillage equipment and planters are still hard to move. We have sold a lot of inventory at a huge loss.
- We believe the economy will turn around in 2018- we haven't see much of a turnaround in 2017.
- Our used equipment values have continued to deteriorate, and we had hoped they would improve as inventory levels come down.
- Our used inventory continues to be a problem. There are quite a few dealers selling at auction lately.
- Our used hay tool inventory levels are too high while our tractor inventories are too low.

2017 Sales Outlook

• The 2017 outlook in July was mixed with improvement in the Corn Belt and Appalachia / Northeast regions. The Mountain / Pacific region saw the largest sequential decline in the month, consistent with prior trend. Sales outlook by region in 2Q improved from 1Q with forecasts in the down 4% to up 2% range vs the down 5% to down 2% range in 1Q. Dealers believe customer activity is sustainable through the 2H17 despite weak commodity prices.

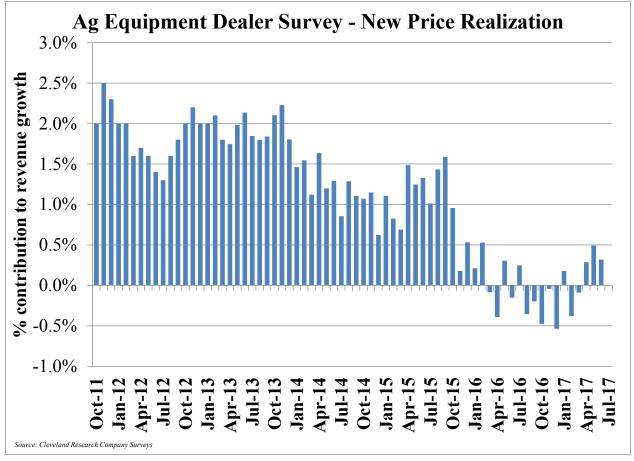




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Pricing Trends

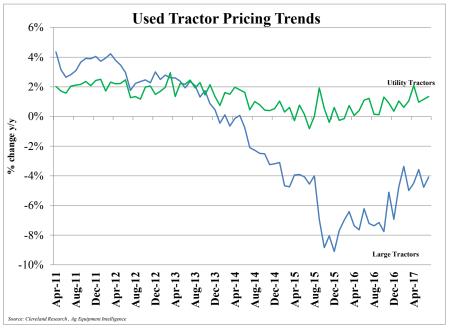
• Dealers reported relatively flat pricing over the last year as incentive programs have more than offset list price increases. Pricing fell to flat in the month following sequential improvement over the prior 5 months. Commentary in the month suggests an absence of OEM incentive programs, but dealers are optimistic incentives could pick up in 2H17.

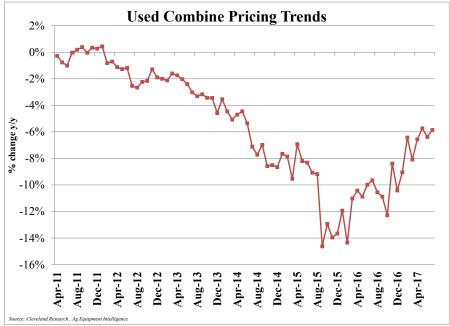


Used Equipment Pricing

• Pricing trends were mixed in the month. Large tractors were reported down 4% y/y, an improvement from the 5% decline reported in June. Combine pricing was inline with June at down 6% y/y.

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

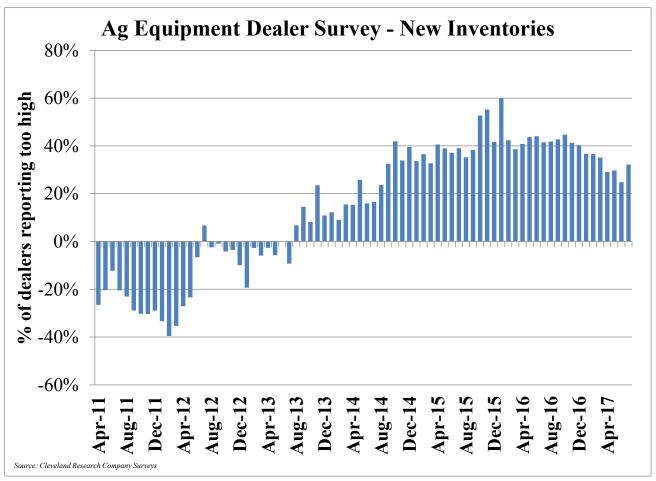




Source: Ag Equipment Intelligence

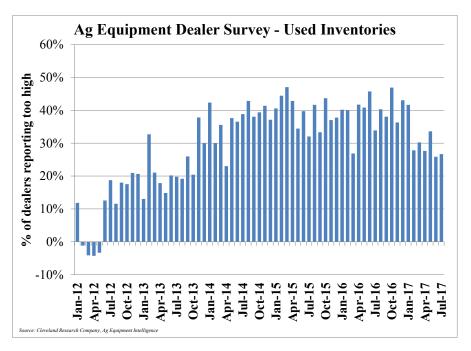
New Equipment Inventory Levels

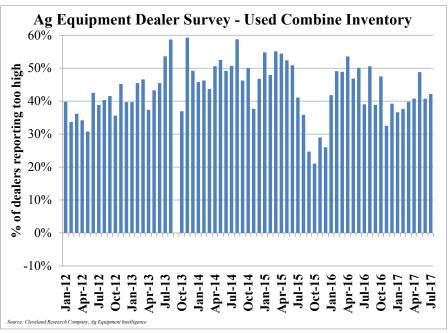
• A net 32% of dealers reported new equipment inventories too high (49% too high, 35% about right, 17% too low), worse than the 25% in June. New inventory levels have been elevated for over 3 years, but have come down over the past 9 months.



Used Equipment Inventory Levels

• A net 27% of dealers reported used equipment inventory as too high (38% too high, 50% about right, 12% too low), relatively inline with the 26% reporting heightened inventory in June (35% too high, 55% about right, 9% too low). Used combine inventory levels were reported as too high by a net 42% of dealers in July, inline with in June.





North American Farm Equipment Industry Retail Sales

				N	ORTH AN	MERICAN I	FARM EQUI	PMENT RE	TAIL SAI	ES				
				Units						% chai	ige year-ov	er-year		
					Total	Row Crop	1					Total	Row Crop	
	< 40 HP	Utility	Row Crop	4-Wheel	Tractor	& 4WD	Combines	<40 HP	Utility	Row Crop	4-Wheel	Tractor	& 4WD	Combines
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	5,110	1,905	258	19,726	2,163	346	28%	6%	-25%	-48%	12%	-29%	-26%
Apr-16	17,726	5,578	2,539	336	26,179	2,875	464	7%	-14%	-19%	-22%	-2%	-19%	-30%
May-16	17,191	5,617	1,969	234	25,011	2,203	332	7%	0%	-1%	-10%	5%	-2%	-40%
Jun-16	16,094	6,273	1,966	247	24,580	2,213	565	3%	-4%	-18%	-18%	-1%	-18%	13%
Jul-16	13,342	5,494	1,875	152	20,863	2,027	619	-7%	-22%	-24%	-43%	-14%	-26%	-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%
Mar-17	13,950	5,328	1,790	338	21,406	2,128	457	12%	4%	-6%	31%	9%	-2%	32%
Apr-17	19,473	5,595	2,425	441	27,934	2,866	504	10%	0%	-4%	31%	7%	0%	9%
May-17	19,588	5,825	1,606	254	27,273	1,860	372	14%	4%	-18%	9%	9%	-16%	12%
Jun-17	18,107	6,313	1,590	191	26,201	1,781	595	13%	1%	-19%	-23%	7%	-20%	5%
Jul-17	13,806	5,583	1,443	136	20,968	1,579	656	3%	2%	-23%	-11%	1%	-22%	6%

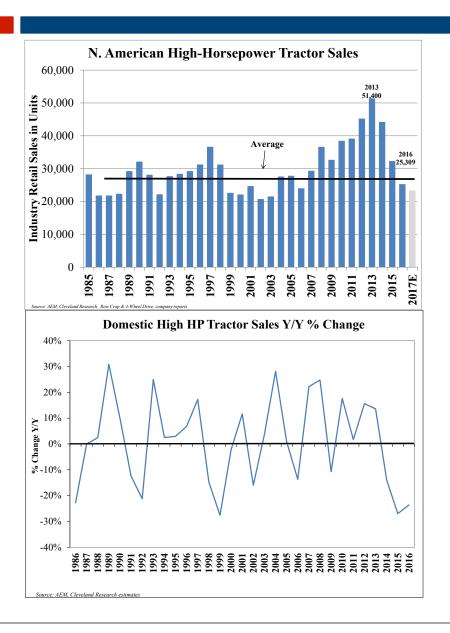
Source: AEM; Cleveland Research Company estimates. High hp tractors are row crop & 4-wheel drive.

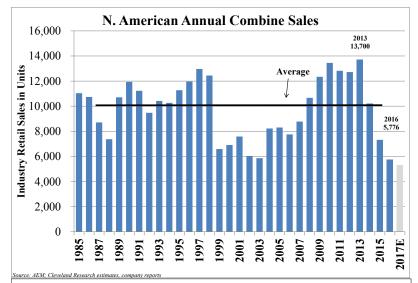
North American Farm Equipment Industry Inventory

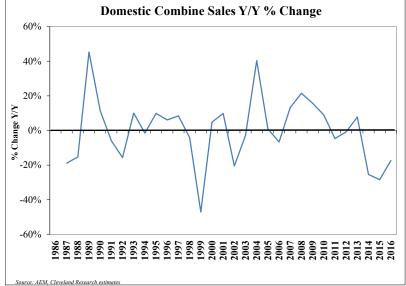
				1	NORTH A	MERICAN	FARM EQU	IPMENT IN	VENTORY	<i>l</i>				
			Inv	entory (Uni	ts)					Invento	ory to 12-m	o. Sales		
					Total	Row Crop)					Total	Row Crop	
	<40 HP	Utility	Row Crop	4-Wheel	Tractor	& 4WD	Combines	<40HP	Util	RC	4-WD	Tractor	& 4WD	Comb
May-14	66,364	34,755	13,505	2,255	116,879	15,760	2,734	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%	27%	60%	50%	24%
Aug-16	79,823 78,438	41,683 41,007	12,962 12,671	998	135,466 133,219	13,960 13,774	1,671 1,428	57%	66% 65%	55% 54%	30% 34%	59% 58%	52% 52%	26% 23%
Sep-16 Oct-16	78,438 77,609			1,103	133,219	13,774	1,428	56% 55%	62%	50%	30%	56%	32% 47%	25% 19%
Nov-16	80,250	39,058 39,972	11,417 12,075	1,013 1,059	129,097	13,134	1,118	56%	63%	53%	30%	57%	50%	19%
	81,456	39,339	11,955	985	133,735	12,940	1,082	56%	62%	54%	31%	57% 57%	51%	19%
Dec-16 Jan-17	83,153	39,339		1,024	135,733	12,940	1,082	57%	63%	55%	34%	58%	52%	20%
Feb-17	83,133 84,464	39,659	11,838 11,692	1,024	136,920	12,862	1,099	57% 57%	63%	55% 54%	34% 37%	58% 58%	52% 52%	24%
reb-17 Mar-17	84,464 83,854	39,639 41,907		1,105	,	-	1,345	5/% 56%	63% 67%		37% 35%	58% 58%		25%
	83,854	38,000	11,428 10,705	980	138,261 129,924	12,500 11,685	1,432	53%	60%	53% 50%	35% 31%	58% 55%	50% 47%	25% 25%
Apr-17 May-17	79,064	37,377	10,703	980 985	129,924	11,348	1,427	52%	59%	30% 49%	31%	53%	47%	28%
Jun-17	77,022	36,209	10,363	983	124,527	11,348	1,731	50%	57%	50%	29%	51%	47%	30%
Juli-1 /	11,022	30,209	10,572	924	124,327	11,290	1,/31	3070	3/70	30%	2970	3170	4/70	3070

Source: AEM; Cleveland Research Company estimates

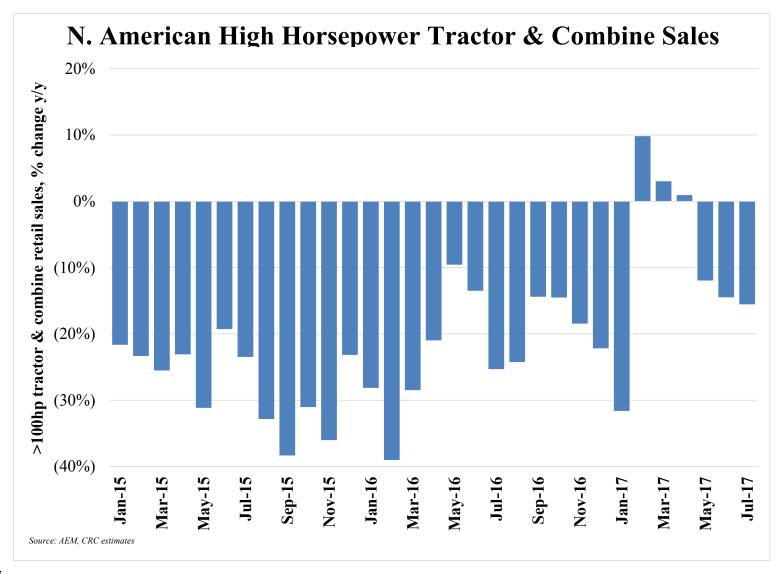
Annual Agricultural Equipment Industry Sales (1985 - 2016)







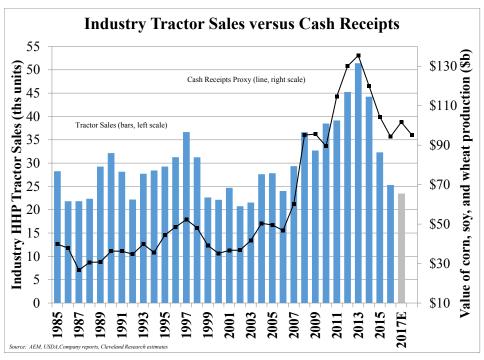
North America Large Ag Equipment Sales



Commodity Prices – Cash Receipts vs. Next Year Equipment Sales

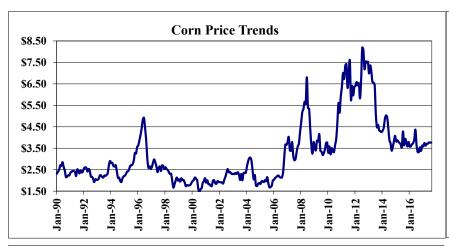
USDA's August WASDE Update Highlights – The following chart illustrates the historical relationship between the value of production of corn, soybeans, and wheat in the U.S. compared to annual industry sales of high horsepower tractors.

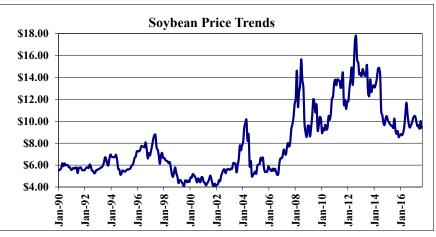
USDA's August crop report was similar to July with cash receipts proxy forecast down 6% y/y in 2017/18. Wheat cash receipt forecasts fell slightly to down 7% y/y vs down 6% in July, soybean forecasts improved to down 1% from down 3%, while corn cash receipt forecasts were unchanged at down 9%. Corn yield forecasts were higher than expected and were only reduced slightly from July.

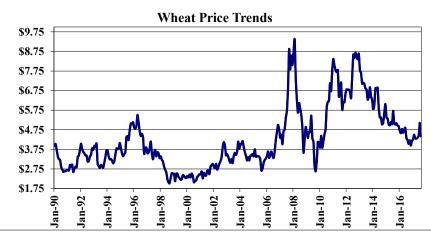


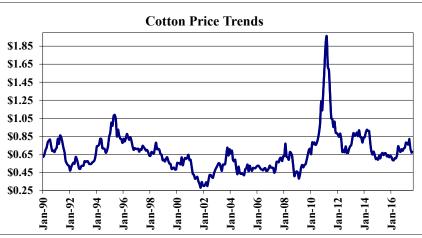
21

Long Term Commodity Price Trends









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Commodity Trends – Long Run Supply and Demand Projections

	Term Forecast	(Feb 2017)												
Millions of bushels		2014/15		2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/2023
Planted	95	91	88	94	91	90	90	89	88	88	87	87	87	8
Harvested	88	83	81	87	84	82	82	81	80	80	79	79	79	7
Yield (bu/acre)	158	171	168	175	171	173	175	177	179	181	183	185	187	18
Beginning Stocks (MM bu)	821	1.232	1.731	1.737	2,370	2,298	2,213	2,193	2,104	2.033	2.023	1.933	1.923	1,89
Production (MM bu)	13,829	14,216	13,601	15,148	14,153	14,135	14,300	14,285	14,360	14,520	14,495	14,655	14,719	14,78
Imports (MM bu)	36	32	67	55	50	50	50	50	50	50	50	50	50	5
Total Supply (MM bu)	14,686	15,480	15,399	16,940	16,573	16,483	16,563	16,528	16,514	16,603	16,568	16,638	16,692	16,73
Feed & Residual (MM Bu)	5,036	5,315	5,130	5,500	5,450	5,500	5,600	5,625	5,700	5,800	5,850	5,950	6,025	6,07
Food, Seed, & Industrial Total	6,501	6,568	6,635	6,920	7,000	6,795	6,770	6,775	6,730	6,705	6,685	6,640	6,620	6,59
Ethanol & By-Products	5,134	5,209	5,206	5.450	5,500	5.350	5.325	5,325	5.275	5.250	5,225	5,175	5,150	5,12
Domestic Use	11,537	11,883	11,765	12,420	12,450	12,295	12,370	12,400	12,430	12,505	12,535	12,590	12,645	12,67
Exports	1.917	1,864	1.898	2,225	1,850	1,975	2,000	2.025	2.050	2.075	2,100	2,125	2,150	2,17
Total Use	13,454	13,747	13,663	14,645	14,300	14,270	14,370	14,425	14,480	14,580	14,635	14,715	14,795	14,84
Ending Stocks	1,232	1,731	1,738	2,295	2,273	2,213	2,193	2,104	2,033	2,023	1,933	1,923	1,896	1,88
Ending Stocks/Use	9.2%	12.6%	12.7%	15.7%	15.9%	15.5%	15.3%	14.6%	14.0%	13.9%	13.2%	13.1%	12.8%	12.79
Weeks Carryover	4.8	6.5	6.6	8.1	8.3	8.1	7.9	7.6	7.3	7.2	6.9	6.8	6.7	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	\$3.7
Value of Production	\$61,677	\$52,599	\$49,100	\$51,503	\$46,705	\$47,352	\$47,905	\$49,283	\$50,260	\$51,546	\$52,182	\$53,491	\$53,724	\$54,70
% change y/y	-17%	-15%	-7%	5%	-9%	1%	1%	3%	2%	3%	1%	3%	0%	29
U.S. Soybean Balance Sheet - USDA Lo Millions of bushels	2013/14	2014/15	2015/16								2023/24		2025/26	2026/202
Millions of bushels Planted	2013/14 77	2014/15 83	2015/16 83	83	90	85	85	85	85	85	85	85	85	2026/202 8
Millions of bushels Planted Harvested	2013/14 77 76	2014/15 83 83	2015/16 83 82	83 83	90 89	85 84	85 84	85 84	85 84	85 84	85 84	85 84	85 84	2026/202 8
Millions of bushels Planted	2013/14 77	2014/15 83	2015/16 83	83	90	85	85	85	85	85	85	85	85	2026/202 8
Millions of bushels Planted Harvested	2013/14 77 76	2014/15 83 83	2015/16 83 82	83 83	90 89	85 84	85 84	85 84	85 84	85 84	85 84	85 84	85 84	2026/202 8 8
Millions of bushels Planted Harvested Yield Per Harvested Acre (Bushels)	2013/14 77 76 44	2014/15 83 83 48	2015/16 83 82 48	83 83 52	90 89 49	85 84 48	85 84 49	85 84 49	85 84 50	85 84 50	85 84 51	85 84 51	85 84 52	2026/202 8 8 5
Millions of bushels Planted Harvested Yield Per Harvested Acre (Bushels) Beginning Stocks	2013/14 77 76 44 141	2014/15 83 83 48 92	2015/16 83 82 48 191	83 83 52 197	90 89 49 370	85 84 48 396	85 84 49 326	85 84 49 306	85 84 50 291	85 84 50 300	85 84 51 309	85 84 51 317	85 84 52 330	2026/202 8 8 5 33 4,40
Millions of bushels Planted Harvested Yield Per Harvested Acre (Bushels) Beginning Stocks Production	2013/14 77 76 44 141 3,358	2014/15 83 83 48 92 3,927	2015/16 83 82 48 191 3,926	83 83 52 197 4,307	90 89 49 370 4,381	85 84 48 396 4,070	85 84 49 326 4,090	85 84 49 306 4,130	85 84 50 291 4,195	85 84 50 300 4,240	85 84 51 309 4,280	85 84 51 317 4,325	85 84 52 330 4,365	2026/202 8
Millions of bushels Planted Harvested Yield Per Harvested Acre (Bushels) Beginning Stocks Production Imports	2013/14 77 76 44 141 3,358 72	2014/15 83 83 48 92 3,927 33	2015/16 83 82 48 191 3,926 24	83 83 52 197 4,307 25	90 89 49 370 4,381 25	85 84 48 396 4,070 30	85 84 49 326 4,090 30	85 84 49 306 4,130 30	85 84 50 291 4,195 30	85 84 50 300 4,240 30	85 84 51 309 4,280 30	85 84 51 317 4,325 30	85 84 52 330 4,365 30	2026/202 8 8 5 33 4,40 3 4,77
Millions of bushels Planted Harvested Yield Per Harvested Acre (Bushels) Beginning Stocks Production Imports Total Supplies	2013/14 77 76 44 141 3,358 72 3,571	2014/15 83 83 48 92 3,927 33 4,052	2015/16 83 82 48 191 3,926 24 4,141	83 83 52 197 4,307 25 4,528	90 89 49 370 4,381 25 4,777	85 84 48 396 4,070 30 4,496	85 84 49 326 4,090 30 4,446	85 84 49 306 4,130 30 4,466	85 84 50 291 4,195 30 4,516	85 84 50 300 4,240 30 4,570	85 84 51 309 4,280 30 4,619	85 84 51 317 4,325 30 4,672	85 84 52 330 4,365 30 4,725	2026/202
Millions of bushels Planted Harvested Yield Per Harvested Acre (Bushels) Beginning Stocks Production Imports Total Supplies Crush Exports	2013/14 77 76 44 141 3,358 72 3,571 1,734 1,647	83 83 48 92 3,927 33 4,052 1,873 1,843	2015/16 83 82 48 191 3,926 24 4,141 1,886 1,936	83 83 52 197 4,307 25 4,528 1,925 2,050	90 89 49 370 4,381 25 4,777 1,940 2,225	85 84 48 396 4,070 30 4,496 1,955 2,085	85 84 49 326 4,090 30 4,446 1,970 2,040	85 84 49 306 4,130 30 4,466 1,990 2,055	85 84 50 291 4,195 30 4,516 2,015 2,070	85 84 50 300 4,240 30 4,570 2,040 2,090	85 84 51 309 4,280 30 4,619 2,060 2,110	85 84 51 317 4,325 30 4,672 2,085 2,125	85 84 52 330 4,365 30 4,725 2,105 2,150	2026/202
Millions of bushels Planted Harvested Yield Per Harvested Acre (Bushels) Beginning Stocks Production Imports Total Supplies Crush	2013/14 77 76 44 141 3,358 72 3,571 1,734	83 83 48 92 3,927 33 4,052 1,873 1,843	2015/16 83 82 48 191 3,926 24 4,141 1,886 1,936	83 83 52 197 4,307 25 4,528 1,925 2,050	90 89 49 370 4,381 25 4,777 1,940 2,225	85 84 48 396 4,070 30 4,496 1,955 2,085	85 84 49 326 4,090 30 4,446 1,970 2,040	85 84 49 306 4,130 30 4,466 1,990	85 84 50 291 4,195 30 4,516 2,015 2,070	85 84 50 300 4,240 30 4,570 2,040 2,090	85 84 51 309 4,280 30 4,619 2,060 2,110	85 84 51 317 4,325 30 4,672 2,085 2,125	85 84 52 330 4,365 30 4,725 2,105 2,150	2026/202
Millions of bushels Planted Harvested Yield Per Harvested Acre (Bushels) Beginning Stocks Production Imports Total Supplies Crush Exports Seed & Residual Total Use	2013/14 77 76 44 141 3,358 72 3,571 1,734 1,647 98 3,479	2014/15 83 83 48 92 3,927 33 4,052 1,873 1,843 145 3,861	2015/16 83 82 48 191 3,926 24 4,141 1,886 1,936	83 83 52 197 4,307 25 4,528 1,925 2,050 128 4,093	90 89 49 370 4,381 25 4,777 1,940 2,225 128 4,301	85 84 48 396 4,070 30 4,496 1,955 2,085 129 4,169	85 84 49 326 4,090 30 4,446 1,970 2,040 130 4,140	85 84 49 306 4,130 30 4,466 1,990 2,055 130 4,175	85 84 50 291 4,195 30 4,516 2,015 2,070	85 84 50 300 4,240 30 4,570 2,040 2,090	85 84 51 309 4,280 30 4,619 2,060 2,110	85 84 51 317 4,325 30 4,672 2,085 2,125	85 84 52 330 4,365 30 4,725 2,105 2,150 132 4,387	2026/202
Millions of bushels Planted Harvested Yield Per Harvested Acre (Bushels) Beginning Stocks Production Imports Total Supplies Crush Exports Seed & Residual	2013/14 77 76 44 141 3,358 72 3,571 1,734 1,647	2014/15 83 83 48 92 3,927 33 4,052 1,873 1,843 145 3,861 191	2015/16 83 82 48 191 3,926 24 4,141 1,886 1,936 121 3,943 197	83 83 52 197 4,307 25 4,528 1,925 2,050	90 89 49 370 4,381 25 4,777 1,940 2,225	85 84 48 396 4,070 30 4,496 1,955 2,085	85 84 49 326 4,090 30 4,446 1,970 2,040	85 84 49 306 4,130 30 4,466 1,990 2,055	85 84 50 291 4,195 30 4,516 2,015 2,070	85 84 50 300 4,240 30 4,570 2,040 2,090 131 4,261 309	85 84 51 309 4,280 30 4,619 2,060 2,110 132 4,302 317	85 84 51 317 4,325 30 4,672 2,085 2,125	85 84 52 330 4,365 30 4,725 2,105 2,150 132 4,387 338	2026/202 8 8 5 33 4,40 3 4,77 2,13 2,15 13 4,41 36
Millions of bushels Planted Harvested Yield Per Harvested Acre (Bushels) Beginning Stocks Production Imports Total Supplies Crush Exports Seed & Residual Total Use Ending Stocks Stocks/Use	2013/14 77 76 44 141 3,358 72 3,571 1,734 1,647 98 3,479 92 2.7%	2014/15 83 83 48 92 3,927 33 4,052 1,873 1,843 145 3,861 191 4,9%	2015/16 83 82 48 191 3,926 24 4,141 1,886 1,936 121 3,943 197 5.0%	83 83 52 197 4,307 25 4,528 1,925 2,050 128 4,093 435 10.6%	90 89 49 370 4,381 25 4,777 1,940 2,225 128 4,301 475 11.0%	85 84 48 396 4,070 30 4,496 1,955 2,085 129 4,169 326 7.8%	85 84 49 326 4,090 30 4,446 1,970 2,040 130 4,140 306 7,4%	85 84 49 306 4,130 30 4,466 1,990 2,055 130 4,175 291 7.0%	85 84 50 291 4,195 30 4,516 2,015 2,070 131 4,216 300 7,11%	85 84 50 300 4,240 30 4,570 2,040 2,090 131 4,261 309 7.2%	85 84 51 309 4,280 30 4,619 2,060 2,110 132 4,302 317 7.4%	85 84 51 317 4,325 30 4,672 2,085 2,125 132 4,342 330 7.6%	85 84 52 330 4,365 30 4,725 2,105 2,150 132 4,387 338 7.7%	2026/202 8 8 8 5 33 4,40 3 4,77 2,13 2,15 13 4,41 36 8,29
Millions of bushels Planted Harvested Yield Per Harvested Acre (Bushels) Beginning Stocks Production Imports Total Supplies Crush Exports Seed & Residual Total Use Ending Stocks	2013/14 77 76 44 141 3,358 72 3,571 1,734 1,647 98 3,479 92	2014/15 83 83 48 92 3,927 33 4,052 1,873 1,843 145 3,861 191	2015/16 83 82 48 191 3,926 24 4,141 1,886 1,936 121 3,943 197	83 83 52 197 4,307 25 4,528 1,925 2,050 128 4,093 435	90 89 49 370 4,381 25 4,777 1,940 2,225 128 4,301 475	85 84 48 396 4,070 30 4,496 1,955 2,085 129 4,169 326	85 84 49 326 4,090 30 4,446 1,970 2,040 130 4,140 306	85 84 49 306 4,130 30 4,466 1,990 2,055 130 4,175 291	85 84 50 291 4,195 30 4,516 2,015 2,070 131 4,216 300	85 84 50 300 4,240 30 4,570 2,040 2,090 131 4,261 309	85 84 51 309 4,280 30 4,619 2,060 2,110 132 4,302 317	85 84 51 317 4,325 30 4,672 2,085 2,125 132 4,342 330	85 84 52 330 4,365 30 4,725 2,105 2,150 132 4,387 338	2026/202

Source: USDA CRC estimates

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 (con	tinued)				
U.S. Wheat Balance Sheet - USDA Long	Term Foreca	ast (Feb 201	7)											
Millions of bushels	•	2014/15	,	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/202
Planted	56	57	55	50	46	49	50	50	50	50	50	50	50	4
Harvested	45	46	47	44	38	42	42	42	42	42	42	42	42	۷
Yield Per Harvested Acre (Bushels)	47	44	44	53	46	48	48	48	49	49	50	50	50	5
Beginning Stocks	718	590	752	976	1,184	993	892	832	784	742	707	679	658	65
Production	2,134	2,026	2,062	2,310	1,739	1,976	2,012	2,029	2,045	2,062	2,079	2,096	2,113	2,12
Imports	169	144	113	115	150	125	125	125	130	135	140	145	150	15
Total Supplies	3,021	2,760	2,927	3,400	3,074	3,094	3,029	2,986	2,959	2,939	2,926	2,920	2,921	2,93
Food	955	960	957	955	950	970	975	980	985	990	995	1,000	1,005	1,01
Seed	77	81	67	61	66	67	67	67	67	67	67	67	67	ϵ
Feed&residual	223	111	152	190	150	190	180	170	170	170	170	170	170	1
Exports	1,176	855	775	1,035	975	975	975	985	995	1,005	1,015	1,025	1,025	1,03
Total Use	2,431	2,007	1,952	2,241	2,141	2,202	2,197	2,202	2,217	2,232	2,247	2,262	2,267	2,28
Ending Stocks	590	753	976	1,159	933	892	832	784	742	707	679	658	654	65
Stocks/Use	24.3%	37.5%	50.0%	51.7%	43.6%	40.5%	37.9%	35.6%	33.5%	31.7%	30.2%	29.1%	28.9%	28.89
Average Price (\$/bu)	\$6.87	\$5.99	\$4.89	\$3.90	\$4.80	\$4.30	\$4.50	\$4.70	\$4.70	\$4.80	\$4.90	\$5.00	\$5.00	\$5.0
Value of Production	\$14,661	\$12,136	\$10,083	\$9,009	\$8,347	\$8,497	\$9,054	\$9,536	\$9,612	\$9,898	\$10,187	\$10,480	\$10,565	\$10,64
% change y/y	-16%	-17%	-17%	-11%	-7%	2%	7%	5%	1%	3%	3%	3%	1%	19
Total	Acreage and \	Value of U.S	S. Corn. So	v and Whe	at Product	tion - USD	A Februar	rv 2017 P	rojection					
Total Corn, Soy, Wheat	2013/14		2015/16				2019/20	•	•	2022/23	2023/24	2024/25	2025/26	2026/202
Planted (mm acres)	228	231	226	228	226	224	224	223	223	223	222	222	221	22
Harvested (mm acres)	209	212	210	213	210	208	207	206	206	206	205	205	205	20
Yield (bu/acre)	92	95	93	102	96	97	98	99	100	101	102	103	103	10
Production	19,321	20,169	19,589	21,765	20,273	20,181	20,402	20,444	20,600	20,822	20,854	21,076	21,197	21,31
Average Price (\$/bu)	\$6.21	\$5.18	\$4.81	\$4.67	\$4.73	\$4.66	\$4.68	\$4.79	\$4.83	\$4.89	\$4.95	\$4.99	\$5.00	\$5.0
Value of Production	\$119,992	\$104,398	\$94,320	\$101,644	\$95,795	\$94,107	\$95,405	\$97,848	\$99,514	\$101,724	\$103,243	\$105,275	\$105,975	\$107,41
% change v/v	-11%	-13%	-10%	8%	-6%	-2%	1%	3%	2%	2%	1%	2%	1%	19

Source: USDA, Cleveland Research estimates

U.S. Acreage Planted Per Crop Year

