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# Farm Production Expenditures 2016 Summary

## August 2017

# USDA





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## 2016 United States Total Farm Production Expenditure Highlights

**Farm Production Expenditures in the United States** are estimated at \$346.9 billion for 2016, down from \$362.8 billion in 2015. The 2016 total farm production expenditures are down 4.4 percent compared with 2015 total farm production expenditures. For the 17 line items, 5 showed an increase from previous year, while the rest showed a decrease.

The four largest expenditures at the United States level total \$171.4 billion and account for 49.3 percent of total expenditures in 2016. These include feed, 16.0 percent, farm services, 12.0 percent, livestock, poultry and related expenses, 11.5 percent, and labor, 9.8 percent.

In 2016, the United States total farm expenditure average per farm is \$169,035, down 4.1 percent from \$176,181 in 2015. On average, United States farm operations spent \$27,092 on feed, \$19,491 on livestock, poultry and related expenses, \$20,319 on farm services, and \$16,616 on labor. For 2015, United States farms spent an average of \$28,408 on feed, \$20,202 on farm services, \$22,047 on livestock, poultry and related expenses, and \$15,443 on labor.

Total fuel expense is \$11.3 billion. Diesel, the largest sub component, is \$7.4 billion, accounting for 65.5 percent. Diesel expenditures are down 7.5 percent from the previous year. Gasoline is \$2.1 billion, down 8.7 percent. LP gas is \$1.2 billion, down 14.1 percent. Other fuel is \$640 million, down 1.5 percent.

The United States economic sales class contributing most to the 2016 United States total expenditures is the \$1,000,000 - \$4,999,999 class, with expenses of \$113.0 billion, 32.6 percent of the United States total, down 5.2 percent from the 2015 level of \$119.2 billion. The next highest is the \$5,000,000 and Over class with \$80.6 billion, down from \$81.3 billion in 2015.

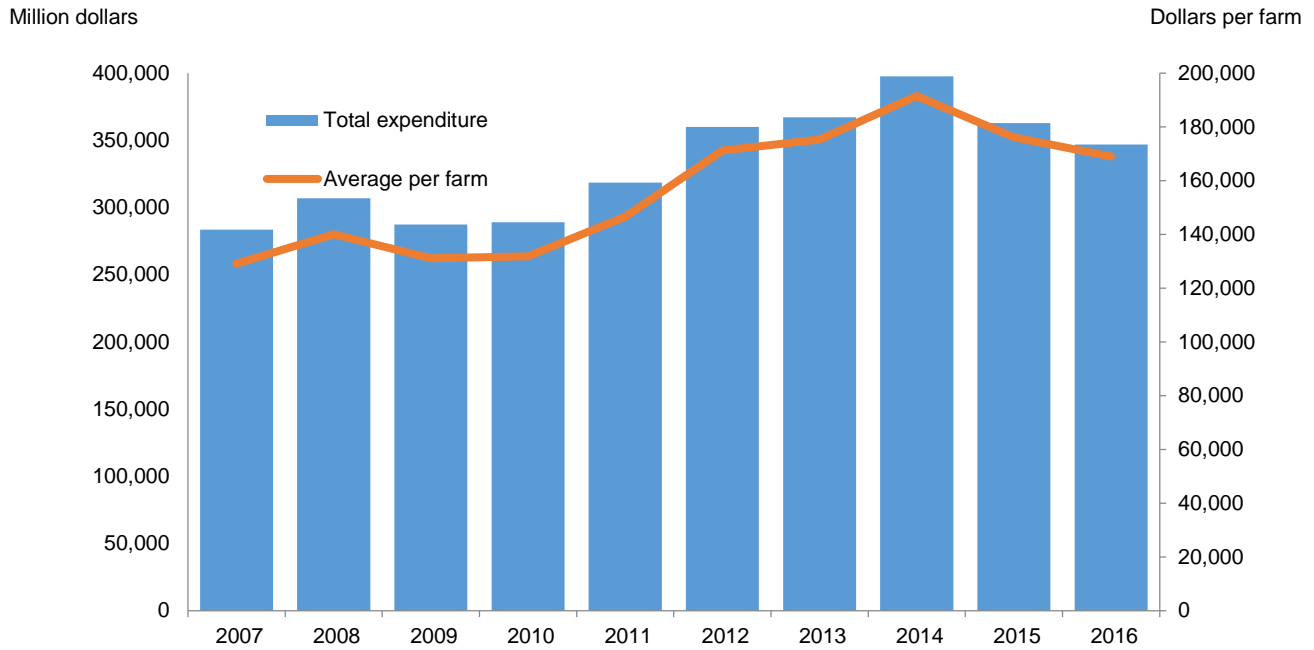
In 2016, crop farms expenditures decreased to \$177.0 billion, down 1.8 percent, while livestock farms expenditures decreased to \$169.9 billion, down 6.9 percent. The largest expenditures for crop farms are rent at \$24.8 billion (14.0 percent of total), labor at \$24.6 billion (13.9 percent), and farm services at \$22.9 billion (12.9 percent). Combined crop inputs (chemicals, fertilizers, and seeds) are \$52.8 billion, accounting for 29.8 percent of crop farms total expenses. The largest expenditures for livestock farms are feed at \$54.1 billion (31.8 percent of total), livestock, poultry and related expenses at \$38.1 billion (22.4 percent), and farm services at \$18.8 billion (11.1 percent). Together, these line items account for 65.3 percent of livestock farms total expenses. The average total expenditure for a crop farm is \$187,948 compared to \$152,995 per livestock farm.

The Midwest region contributed the most to United States total expenditures with expenses of \$108.9 billion (31.4 percent), down from \$113.1 billion in 2015. Other regions, ranked by total expenditures, are the Plains at \$89.0 billion (25.7 percent), West at \$71.4 billion (20.6 percent), Atlantic at \$42.1 billion (12.1 percent), and South at \$35.5 billion (10.2 percent). The Plains decreased \$4.52 billion from 2015, which is the largest regional decrease.

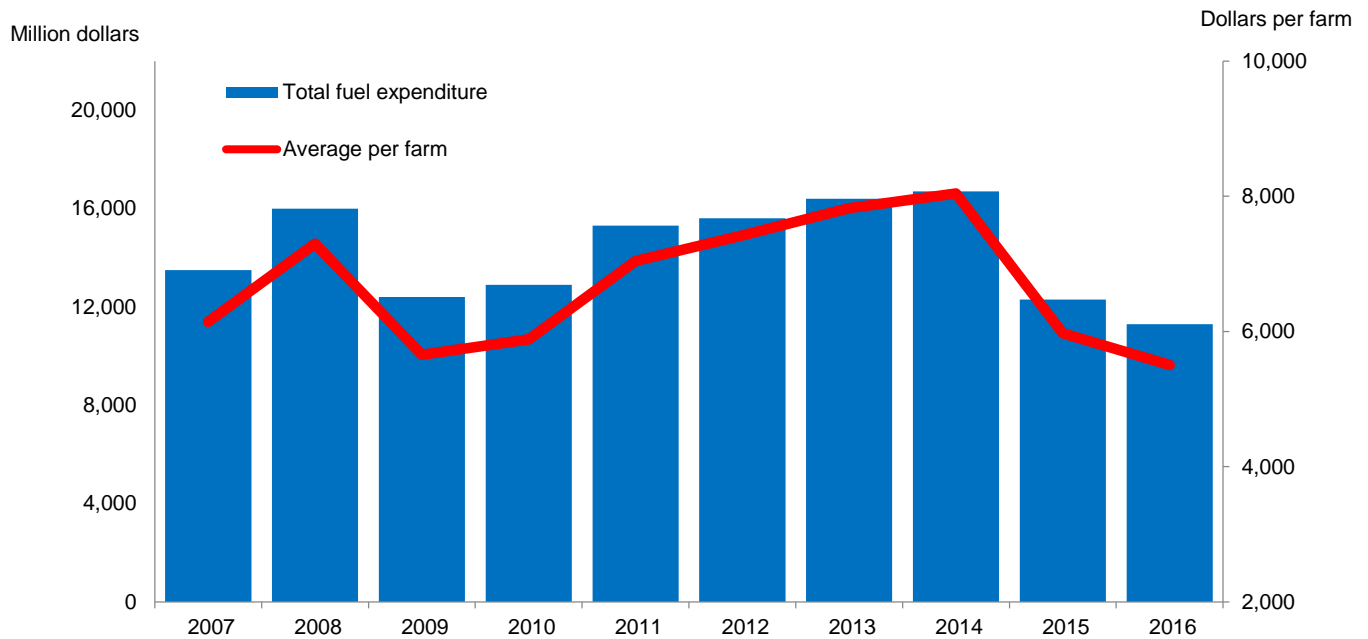
Combined total expenditures for the 15 estimate states is \$228.0 billion in 2016 (65.7 percent of the United States total expenditures) and \$238.0 billion in 2015 (65.6 percent). California contributed most to the 2016 United States total expenditures, with expenses of \$34.2 billion, (9.9 percent). California expenditures are down 3.8 percent from the 2015 estimate of \$35.5 billion. Iowa, the next leading state, has \$26.3 billion in expenses, (7.6 percent). Other states with more than \$20 billion in total expenditures are Texas with \$23.9 billion and Nebraska with \$21.7 billion.

For further information on USDA farm expenditures, please visit [http://www.nass.usda.gov/Statistics\\_by\\_Subject/index.php](http://www.nass.usda.gov/Statistics_by_Subject/index.php).

## Farm Production Expenditures, Total and Average Per Farm by Year - United States: 2007-2016



## Fuel Expenditure, Total and Average Per Farm by Year – United States: 2007-2016



## Farm Production Expenditures by Expenditure Category and Percent of Total – United States: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Expenditure	2015		2016	
	(million dollars)	(percent)	(million dollars)	(percent)
Livestock, poultry and related expenses .....	45,400	12.5	40,000	11.5
Feed .....	58,500	16.1	55,600	16.0
Farm services .....	41,600	11.5	41,700	12.0
Rent .....	31,000	8.5	29,800	8.6
Agricultural chemicals .....	14,600	4.0	15,200	4.4
Fertilizer, lime and soil conditioners .....	25,500	7.0	23,500	6.8
Interest .....	9,500	2.6	9,100	2.6
Taxes .....	12,800	3.5	11,900	3.4
Labor .....	31,800	8.8	34,100	9.8
Fuel .....	12,300	3.4	11,300	3.3
Farm supplies and repairs .....	18,700	5.2	17,600	5.1
Farm improvements and construction .....	16,100	4.4	14,500	4.2
Tractors and self-propelled farm machinery .....	11,900	3.3	10,600	3.1
Other farm machinery .....	6,100	1.7	5,000	1.4
Seeds and plants .....	21,300	5.9	21,800	6.3
Trucks and autos .....	5,000	1.4	4,400	1.3
Miscellaneous capital expenses .....	700	0.2	800	0.2
Total farm production expenditures .....	362,800	100.0	346,900	100.0

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – United States: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	25.3	25.7	22,047	19,491	45,400	40,000
Feed .....	56.8	57.3	28,408	27,092	58,500	55,600
Farm services .....	92.3	91.1	20,202	20,319	41,600	41,700
Rent .....	29.4	30.0	15,054	14,521	31,000	29,800
Agricultural chemicals .....	41.6	45.4	7,090	7,407	14,600	15,200
Fertilizer, lime and soil conditioners .....	51.4	50.4	12,383	11,451	25,500	23,500
Interest .....	32.7	32.0	4,613	4,434	9,500	9,100
Taxes .....	99.5	99.5	6,216	5,799	12,800	11,900
Labor .....	27.4	25.8	15,443	16,616	31,800	34,100
Fuel .....	85.1	83.6	5,973	5,506	12,300	11,300
Farm supplies and repairs .....	80.7	80.4	9,081	8,576	18,700	17,600
Farm improvements and construction .....	50.9	48.8	7,818	7,065	16,100	14,500
Tractors and self-propelled farm machinery .....	14.5	13.0	5,779	5,165	11,900	10,600
Other farm machinery .....	16.3	15.1	2,962	2,436	6,100	5,000
Seeds and plants .....	39.2	36.3	10,344	10,623	21,300	21,800
Trucks and autos .....	13.3	11.6	2,428	2,144	5,000	4,400
Miscellaneous capital expenses .....	4.9	5.2	340	390	700	800
Total farm production expenditures .....	100.0	100.0	176,181	169,035	362,800	346,900

## Farm Production Expenditures by Year – United States: 2012-2016

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii]

Expenditure	2012	2013	2014	2015	2016
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	33,500	34,200	45,100	45,400	40,000
Feed .....	60,500	62,400	63,700	58,500	55,600
Farm services .....	41,100	39,000	45,300	41,600	41,700
Rent .....	29,700	31,400	32,600	31,000	29,800
Agricultural chemicals .....	14,000	14,600	15,800	14,600	15,200
Fertilizer, lime and soil conditioners .....	28,800	28,300	28,000	25,500	23,500
Interest .....	8,400	8,700	9,700	9,500	9,100
Taxes .....	11,500	11,700	13,600	12,800	11,900
Labor .....	31,800	32,000	34,200	31,800	34,100
Fuel .....	15,600	16,400	16,700	12,300	11,300
Farm supplies and repairs .....	18,200	18,700	19,900	18,700	17,600
Farm improvements and construction .....	15,600	16,600	18,200	16,100	14,500
Tractors and self-propelled farm machinery .....	17,000	17,100	16,900	11,900	10,600
Other farm machinery .....	8,000	8,800	9,000	6,100	5,000
Seeds and plants .....	20,900	21,900	22,100	21,300	21,800
Trucks and autos .....	5,000	4,990	6,200	5,000	4,400
Miscellaneous capital expenses .....	500	480	600	700	800
Total farm production expenditures .....	360,100	367,270	397,600	362,800	346,900

## Farm Production Expenditures by Percent of Total – United States: 2012-2016

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii]

Expenditure	2012	2013	2014	2015	2016
	(percent)	(percent)	(percent)	(percent)	(percent)
Livestock, poultry and related expenses .....	9.3	9.3	11.3	12.5	11.5
Feed .....	16.8	17.0	16.0	16.1	16.0
Farm services .....	11.4	10.6	11.4	11.5	12.0
Rent .....	8.2	8.5	8.2	8.5	8.6
Agricultural chemicals .....	3.9	4.0	4.0	4.0	4.4
Fertilizer, lime and soil conditioners .....	8.0	7.7	7.0	7.0	6.8
Interest .....	2.3	2.4	2.4	2.6	2.6
Taxes .....	3.2	3.2	3.4	3.5	3.4
Labor .....	8.8	8.7	8.6	8.8	9.8
Fuel .....	4.3	4.5	4.2	3.4	3.3
Farm supplies and repairs .....	5.1	5.1	5.0	5.2	5.1
Farm improvements and construction .....	4.3	4.5	4.6	4.4	4.2
Tractors and self-propelled farm machinery .....	4.7	4.7	4.3	3.3	3.1
Other farm machinery .....	2.2	2.4	2.3	1.7	1.4
Seeds and plants .....	5.8	6.0	5.6	5.9	6.3
Trucks and autos .....	1.4	1.4	1.6	1.4	1.3
Miscellaneous capital expenses .....	0.1	0.1	0.2	0.2	0.2
Total farm production expenditures .....	100.0	100.0	100.0	100.0	100.0



## Crop Farms Production Expenditures by Farms Reporting, Average per Farm, and Total – United States: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	9.5	9.2	2,315	2,018	2,200	1,900
Feed .....	20.9	21.8	1,473	1,593	1,400	1,500
Farm services .....	89.1	87.6	25,154	24,316	23,900	22,900
Rent .....	31.8	32.4	26,733	26,334	25,400	24,800
Agricultural chemicals .....	53.6	54.4	13,630	14,494	12,950	13,650
Fertilizer, lime and soil conditioners .....	60.7	59.3	22,418	21,025	21,300	19,800
Interest .....	35.0	32.7	5,420	5,033	5,150	4,740
Taxes .....	99.8	99.6	8,420	7,858	8,000	7,400
Labor .....	30.5	27.4	23,786	26,122	22,600	24,600
Fuel .....	80.4	78.8	7,894	7,539	7,500	7,100
Farm supplies and repairs .....	75.9	75.5	11,472	11,149	10,900	10,500
Farm improvements and construction .....	46.7	44.8	7,999	7,114	7,600	6,700
Tractors and self-propelled farm machinery .....	13.6	12.9	7,157	6,902	6,800	6,500
Other farm machinery .....	15.5	15.5	3,842	3,398	3,650	3,200
Seeds and plants .....	51.9	50.7	19,471	20,494	18,500	19,300
Trucks and autos .....	12.2	11.6	2,263	2,177	2,150	2,050
Miscellaneous capital expenses .....	4.1	4.7	316	382	300	360
Total farm production expenditures .....	100.0	100.0	189,762	187,948	180,300	177,000

## Livestock Farms Production Expenditures by Farms Reporting, Average per Farm, and Total – United States: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	38.7	39.6	38,950	34,309	43,200	38,100
Feed .....	87.6	87.4	51,483	48,717	57,100	54,100
Farm services .....	95.0	94.1	15,959	16,929	17,700	18,800
Rent .....	27.4	28.0	5,049	4,503	5,600	5,000
Agricultural chemicals .....	31.2	37.7	1,488	1,396	1,650	1,550
Fertilizer, lime and soil conditioners .....	43.4	42.9	3,787	3,332	4,200	3,700
Interest .....	30.7	31.4	3,922	3,926	4,350	4,360
Taxes .....	99.3	99.3	4,328	4,052	4,800	4,500
Labor .....	24.6	24.4	8,295	8,555	9,200	9,500
Fuel .....	89.1	87.6	4,328	3,782	4,800	4,200
Farm supplies and repairs .....	84.9	84.6	7,033	6,394	7,800	7,100
Farm improvements and construction .....	54.4	52.3	7,664	7,024	8,500	7,800
Tractors and self-propelled farm machinery .....	15.2	13.1	4,598	3,692	5,100	4,100
Other farm machinery .....	16.9	14.8	2,209	1,621	2,450	1,800
Seeds and plants .....	28.3	24.2	2,525	2,251	2,800	2,500
Trucks and autos .....	14.2	11.6	2,570	2,116	2,850	2,350
Miscellaneous capital expenses .....	5.7	5.7	361	396	400	440
Total farm production expenditures .....	100.0	100.0	164,546	152,995	182,500	169,900

## Farm Production Expenditures, Economic Class Gross Sales, by Percent of Total, Average per Farm, and Total – United States: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Expenditure	Percent of total		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Less than \$10,000 .....	4.3	4.1	15,180	13,756	15,650	14,130
\$10,000 - \$49,999 .....	4.5	4.6	36,542	35,726	16,470	16,120
\$50,000 - \$99,999 .....	4.2	4.1	89,761	85,587	15,210	14,270
\$100,000 - \$249,999 .....	7.1	6.8	178,330	162,413	25,840	23,480
\$250,000 - \$499,999 .....	9.5	9.6	354,090	339,800	34,630	33,280
\$500,000 - \$999,999 .....	15.0	15.0	663,264	635,288	54,580	52,100
\$1,000,000 - \$4,999,999 .....	32.8	32.6	1,600,967	1,528,687	119,160	112,970
\$5,000,000 and over .....	22.4	23.2	9,308,133	9,258,621	81,260	80,550
Total farm production expenditures .....	100.0	100.0	176,181	169,035	362,800	346,900

## Farm Production Expenditures, Economic Class Gross Sales of Less than \$10,000 by Farms Reporting, Average per Farm, and Total – United States: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	17.5	17.9	456	516	470	530
Feed .....	56.7	57.5	1,484	1,285	1,530	1,320
Farm services .....	86.9	85.0	2,047	2,015	2,110	2,070
Rent .....	10.2	11.3	223	243	230	250
Agricultural chemicals .....	22.3	23.5	116	107	120	110
Fertilizer, lime and soil conditioners .....	32.3	29.7	446	350	460	360
Interest .....	18.1	16.8	892	711	920	730
Taxes .....	99.3	99.2	2,018	1,898	2,080	1,950
Labor .....	14.8	12.4	466	389	480	400
Fuel .....	76.2	73.6	660	652	680	670
Farm supplies and repairs .....	69.7	69.2	1,009	974	1,040	1,000
Farm improvements and construction .....	39.1	36.6	2,279	1,947	2,350	2,000
Tractors and self-propelled farm machinery .....	10.4	9.0	1,416	1,178	1,460	1,210
Other farm machinery .....	8.4	8.4	349	273	360	280
Seeds and plants .....	18.9	15.5	165	146	170	150
Trucks and autos .....	8.9	7.5	999	837	1,030	860
Miscellaneous capital expenses .....	2.8	3.9	155	234	160	240
Total farm production expenditures .....	100.0	100.0	15,180	13,756	15,650	14,130

## Farm Production Expenditures, Economic Class Gross Sales of \$10,000-\$49,999 by Farms Reporting, Average per Farm, and Total – United States: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	25.0	28.5	2,063	1,839	930	830
Feed .....	60.6	62.1	2,951	3,103	1,330	1,400
Farm services .....	95.4	94.2	5,081	5,363	2,290	2,420
Rent .....	28.7	26.5	1,265	1,285	570	580
Agricultural chemicals .....	40.5	48.2	710	731	320	330
Fertilizer, lime and soil conditioners .....	56.0	58.2	2,108	1,906	950	860
Interest .....	27.1	29.1	1,509	1,529	680	690
Taxes .....	99.4	99.5	3,284	3,302	1,480	1,490
Labor .....	24.2	24.7	1,620	1,773	730	800
Fuel .....	89.1	88.6	1,997	1,817	900	820
Farm supplies and repairs .....	85.0	85.4	3,151	2,837	1,420	1,280
Farm improvements and construction .....	54.2	51.3	3,439	3,546	1,550	1,600
Tractors and self-propelled farm machinery .....	13.1	13.2	2,995	2,615	1,350	1,180
Other farm machinery .....	14.1	14.1	976	997	440	450
Seeds and plants .....	40.3	35.3	1,087	1,130	490	510
Trucks and autos .....	12.8	10.5	1,997	1,574	900	710
Miscellaneous capital expenses .....	5.8	5.3	311	377	140	170
Total farm production expenditures .....	100.0	100.0	36,542	35,726	16,470	16,120

## Farm Production Expenditures, Economic Class Gross Sales of \$50,000-\$99,999 by Farms Reporting, Average per Farm, and Total – United States: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	31.3	33.6	5,724	4,918	970	820
Feed .....	54.9	59.5	5,016	6,478	850	1,080
Farm services .....	99.0	99.3	11,626	11,995	1,970	2,000
Rent .....	47.0	51.2	6,315	6,118	1,070	1,020
Agricultural chemicals .....	61.0	71.8	2,951	2,939	500	490
Fertilizer, lime and soil conditioners .....	73.7	72.8	7,554	6,597	1,280	1,100
Interest .....	45.0	43.5	3,246	3,359	550	560
Taxes .....	99.8	99.8	5,842	5,518	990	920
Labor .....	38.0	36.2	4,898	4,498	830	750
Fuel .....	94.9	94.6	4,603	4,078	780	680
Farm supplies and repairs .....	93.4	93.7	6,610	6,118	1,120	1,020
Farm improvements and construction .....	62.1	61.9	7,436	7,797	1,260	1,300
Tractors and self-propelled farm machinery .....	17.1	14.6	5,960	4,918	1,010	820
Other farm machinery .....	23.0	20.9	2,833	1,979	480	330
Seeds and plants .....	60.3	59.3	5,901	4,978	1,000	830
Trucks and autos .....	17.6	15.1	2,715	2,939	460	490
Miscellaneous capital expenses .....	7.4	5.8	531	360	90	60
Total farm production expenditures .....	100.0	100.0	89,761	85,587	15,210	14,270

**Farm Production Expenditures, Economic Class Gross Sales of \$100,000-\$249,999 by Farms Reporting, Average per Farm, and Total – United States: 2015 and 2016**

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	36.0	31.3	9,938	7,885	1,440	1,140
Feed .....	51.8	50.7	10,904	11,621	1,580	1,680
Farm services .....	99.7	99.8	22,774	22,480	3,300	3,250
Rent .....	64.2	67.1	16,425	16,186	2,380	2,340
Agricultural chemicals .....	77.1	81.3	9,248	8,923	1,340	1,290
Fertilizer, lime and soil conditioners .....	86.9	84.2	18,081	15,494	2,620	2,240
Interest .....	59.5	58.0	5,728	5,880	830	850
Taxes .....	99.8	100.0	9,179	8,093	1,330	1,170
Labor .....	43.9	39.6	12,560	10,376	1,820	1,500
Fuel .....	97.8	97.5	7,937	6,986	1,150	1,010
Farm supplies and repairs .....	97.5	97.1	12,422	10,929	1,800	1,580
Farm improvements and construction .....	66.2	65.7	9,248	7,816	1,340	1,130
Tractors and self-propelled farm machinery .....	19.5	17.1	9,317	8,370	1,350	1,210
Other farm machinery .....	31.1	22.7	5,659	3,735	820	540
Seeds and plants .....	79.7	74.9	14,493	13,834	2,100	2,000
Trucks and autos .....	18.4	16.0	3,934	3,251	570	470
Miscellaneous capital expenses .....	7.0	6.7	483	553	70	80
Total farm production expenditures .....	100.0	100.0	178,330	162,413	25,840	23,480

**Farm Production Expenditures, Economic Class Gross Sales of \$250,000-\$499,999 by Farms Reporting, Average per Farm, and Total – United States: 2015 and 2016**

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	41.8	38.2	29,652	21,748	2,900	2,130
Feed .....	54.5	47.9	29,141	26,241	2,850	2,570
Farm services .....	100.0	99.5	43,456	43,598	4,250	4,270
Rent .....	76.6	75.9	40,389	41,658	3,950	4,080
Agricultural chemicals .....	85.3	90.6	19,121	20,216	1,870	1,980
Fertilizer, lime and soil conditioners .....	86.7	88.5	34,867	33,184	3,410	3,250
Interest .....	69.5	71.4	11,452	11,333	1,120	1,110
Taxes .....	99.9	99.9	16,155	14,294	1,580	1,400
Labor .....	54.3	51.9	23,006	24,505	2,250	2,400
Fuel .....	99.7	99.0	14,110	13,273	1,380	1,300
Farm supplies and repairs .....	98.9	98.1	21,268	21,442	2,080	2,100
Farm improvements and construction .....	70.4	68.6	13,497	13,784	1,320	1,350
Tractors and self-propelled farm machinery .....	22.5	20.1	14,519	12,763	1,420	1,250
Other farm machinery .....	34.6	30.9	8,589	6,943	840	680
Seeds and plants .....	81.9	85.2	28,937	29,610	2,830	2,900
Trucks and autos .....	21.6	21.6	5,215	4,595	510	450
Miscellaneous capital expenses .....	8.2	8.7	716	613	70	60
Total farm production expenditures .....	100.0	100.0	354,090	339,800	34,630	33,280

## Farm Production Expenditures, Economic Class Gross Sales of \$500,000-\$999,999 by Farms Reporting, Average per Farm, and Total – United States: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	41.6	39.5	57,844	49,994	4,760	4,100
Feed .....	49.9	46.6	62,705	62,797	5,160	5,150
Farm services .....	100.0	100.0	75,951	73,650	6,250	6,040
Rent .....	78.0	78.4	87,131	82,917	7,170	6,800
Agricultural chemicals .....	88.8	89.7	37,550	41,093	3,090	3,370
Fertilizer, lime and soil conditioners .....	88.8	87.4	65,379	60,968	5,380	5,000
Interest .....	81.0	75.3	18,228	18,047	1,500	1,480
Taxes .....	100.0	100.0	21,874	20,119	1,800	1,650
Labor .....	66.9	65.5	48,973	46,945	4,030	3,850
Fuel .....	99.7	99.6	25,884	22,924	2,130	1,880
Farm supplies and repairs .....	99.5	97.7	36,943	35,605	3,040	2,920
Farm improvements and construction .....	74.6	75.7	25,884	22,558	2,130	1,850
Tractors and self-propelled farm machinery .....	29.6	28.9	21,995	21,705	1,810	1,780
Other farm machinery .....	38.6	35.1	13,124	10,974	1,080	900
Seeds and plants .....	83.6	85.1	56,143	58,042	4,620	4,760
Trucks and autos .....	26.2	24.6	6,927	6,097	570	500
Miscellaneous capital expenses .....	9.5	8.9	729	854	60	70
Total farm production expenditures .....	100.0	100.0	663,264	635,288	54,580	52,100

## Farm Production Expenditures, Economic Class Gross Sales of \$1,000,000-\$4,999,999 by Farms Reporting, Average per Farm, and Total – United States: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	57.1	52.5	188,231	165,765	14,010	12,250
Feed .....	60.8	56.8	327,825	297,023	24,400	21,950
Farm services .....	100.0	100.0	180,035	179,296	13,400	13,250
Rent .....	73.2	73.3	163,912	154,939	12,200	11,450
Agricultural chemicals .....	86.8	88.4	72,014	75,237	5,360	5,560
Fertilizer, lime and soil conditioners .....	77.7	79.7	118,232	108,931	8,800	8,050
Interest .....	80.2	78.0	37,619	34,641	2,800	2,560
Taxes .....	100.0	100.0	35,201	33,559	2,620	2,480
Labor .....	77.2	80.8	137,042	155,616	10,200	11,500
Fuel .....	99.4	99.7	49,577	45,196	3,690	3,340
Farm supplies and repairs .....	99.4	99.1	67,983	66,982	5,060	4,950
Farm improvements and construction .....	82.4	80.9	51,055	41,678	3,800	3,080
Tractors and self-propelled farm machinery .....	33.6	25.8	37,754	33,153	2,810	2,450
Other farm machinery .....	41.4	39.8	22,303	19,621	1,660	1,450
Seeds and plants .....	77.0	80.1	101,438	106,225	7,550	7,850
Trucks and autos .....	28.2	27.3	9,539	9,743	710	720
Miscellaneous capital expenses .....	9.0	9.8	1,209	1,083	90	80
Total farm production expenditures .....	100.0	100.0	1,600,967	1,528,687	119,160	112,970

## Farm Production Expenditures, Economic Class Gross Sales of \$5,000,000 and Over by Farms Reporting, Average per Farm, and Total – United States: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	53.1	57.7	2,281,787	2,091,954	19,920	18,200
Feed .....	61.1	64.7	2,382,589	2,350,575	20,800	20,450
Farm services .....	100.0	100.0	919,817	965,517	8,030	8,400
Rent .....	70.9	66.2	392,898	377,011	3,430	3,280
Agricultural chemicals .....	81.9	87.6	229,095	237,931	2,000	2,070
Fertilizer, lime and soil conditioners .....	75.3	81.9	297,824	303,448	2,600	2,640
Interest .....	77.9	84.2	126,002	128,736	1,100	1,120
Taxes .....	100.0	100.0	105,384	96,552	920	840
Labor .....	95.2	94.5	1,312,715	1,482,759	11,460	12,900
Fuel .....	99.6	99.9	182,131	183,908	1,590	1,600
Farm supplies and repairs .....	99.9	99.4	359,679	316,092	3,140	2,750
Farm improvements and construction .....	86.9	89.5	269,187	251,724	2,350	2,190
Tractors and self-propelled farm machinery .....	38.5	41.0	79,038	80,460	690	700
Other farm machinery .....	40.8	45.6	48,110	42,529	420	370
Seeds and plants .....	74.5	83.4	290,951	321,839	2,540	2,800
Trucks and autos .....	42.5	42.0	28,637	22,989	250	200
Miscellaneous capital expenses .....	9.5	12.8	2,291	4,598	20	40
Total farm production expenditures .....	100.0	100.0	9,308,133	9,258,621	81,260	80,550

## Fuel Production Expenditure Sub-Components by Type of Farm, Economic Class, and Region – United States: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii]

Type of farm	Fuel Production Expenditure									
	Total		Diesel		Gasoline		LP gas		Other fuel	
	2015	2016	2015	2016	2015	2016	2015	2016	2015	2016
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Crop farms .....	7,500	7,100	5,200	4,900	1,250	1,200	580	540	470	460
Livestock farms .....	4,800	4,200	2,800	2,500	1,050	900	770	620	180	180

Economic class	Fuel Production Expenditure									
	Total		Diesel		Gasoline		LP gas		Other fuel	
	2015	2016	2015	2016	2015	2016	2015	2016	2015	2016
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Less than \$10,000 .....	680	670	380	390	240	220	40	40	20	20
\$10,000 - \$49,999 .....	900	820	550	510	280	250	50	40	20	20
\$50,000 - \$99,999 .....	780	680	500	440	200	180	50	50	30	10
\$100,000 - \$249,999 .....	1,150	1,010	770	680	250	210	90	80	40	40
\$250,000 - \$499,999 .....	1,380	1,300	970	900	250	240	120	110	40	50
\$500,000 - \$999,999 .....	2,130	1,880	1,500	1,300	320	290	240	190	70	100
\$1,000,000 - \$4,999,999 .....	3,690	3,340	2,310	2,130	540	470	590	500	250	240
\$5,000,000 and over .....	1,590	1,600	1,020	1,050	220	240	170	150	180	160

Region	Fuel Production Expenditure									
	Total		Diesel		Gasoline		LP gas		Other fuel	
	2015	2016	2015	2016	2015	2016	2015	2016	2015	2016
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Atlantic .....	1,650	1,390	980	830	320	290	230	170	120	100
South .....	1,560	1,480	990	940	290	270	230	200	50	70
Midwest .....	3,660	3,220	2,390	2,100	530	470	570	520	170	130
Plains .....	2,950	2,770	2,000	1,860	600	530	160	150	190	230
West .....	2,480	2,440	1,640	1,670	560	540	160	120	120	110
United States .....	12,300	11,300	8,000	7,400	2,300	2,100	1,350	1,160	650	640

## Farm Production Expenditures – Region, State, and United States: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Region and state	Total farm production expenditures		Livestock, poultry, and related expenses			
	2015	2016	2015	2016	2015	2016
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent of total)	(percent of total)
<b>Atlantic</b>						
North Carolina .....	10,520	10,330	2,090	1,930	19.9	18.7
Other States .....	33,670	31,780	2,060	1,850	6.1	5.8
Total .....	44,190	42,110	4,150	3,780	9.4	9.0
<b>South</b>						
Arkansas .....	8,230	8,105	740	750	9.0	9.3
Florida .....	5,790	5,900	140	120	2.4	2.0
Georgia .....	7,590	7,130	870	840	11.5	11.8
Other States .....	15,470	14,385	1,430	1,480	9.2	10.3
Total .....	37,080	35,520	3,180	3,190	8.6	9.0
<b>Midwest</b>						
Illinois .....	17,860	15,815	870	640	4.9	4.0
Indiana .....	10,400	10,235	570	630	5.5	6.2
Iowa .....	27,750	26,345	5,120	3,780	18.5	14.3
Minnesota .....	17,330	17,205	1,650	1,520	9.5	8.8
Missouri .....	10,600	10,375	1,210	1,190	11.4	11.5
Wisconsin .....	10,910	10,910	450	460	4.1	4.2
Other States .....	18,230	18,005	980	1,010	5.4	5.6
Total .....	113,080	108,890	10,850	9,230	9.6	8.5
<b>Plains</b>						
Kansas .....	20,230	17,700	7,770	6,000	38.4	33.9
Nebraska .....	22,740	21,720	6,770	6,170	29.8	28.4
Texas .....	24,130	23,900	5,720	5,670	23.7	23.7
Other States .....	26,430	25,690	3,000	3,010	11.4	11.7
Total .....	93,530	89,010	23,260	20,850	24.9	23.4
<b>West</b>						
California .....	35,540	34,200	730	740	2.1	2.2
Washington .....	8,420	8,105	180	100	2.1	1.2
Other States .....	30,960	29,065	3,050	2,110	9.9	7.3
Total .....	74,920	71,370	3,960	2,950	5.3	4.1
<b>United States .....</b>	<b>362,800</b>	<b>346,900</b>	<b>45,400</b>	<b>40,000</b>	<b>12.5</b>	<b>11.5</b>

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## Farm Production Expenditures – Region, State, and United States: 2015 and 2016 (Continued)

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Region and state	Feed				Farm services			
	2015	2016	2015	2016	2015	2016	2015	2016
	(million dollars)	(million dollars)	(percent of total)	(percent of total)	(million dollars)	(million dollars)	(percent of total)	(percent of total)
<b>Atlantic</b>								
North Carolina .....	3,470	3,440	33.0	33.3	890	1,010	8.5	9.8
Other States .....	6,580	5,990	19.5	18.8	3,930	4,090	11.7	12.9
Total .....	10,050	9,430	22.7	22.4	4,820	5,100	10.9	12.1
<b>South</b>								
Arkansas .....	2,260	2,080	27.5	25.7	810	850	9.8	10.5
Florida .....	410	440	7.1	7.5	700	760	12.1	12.9
Georgia .....	2,270	2,180	29.9	30.6	860	840	11.3	11.8
Other States .....	3,810	3,920	24.6	27.3	1,810	1,750	11.7	12.2
Total .....	8,750	8,620	23.6	24.3	4,180	4,200	11.3	11.8
<b>Midwest</b>								
Illinois .....	1,370	930	7.7	5.9	1,710	1,560	9.6	9.9
Indiana .....	1,410	1,450	13.6	14.2	1,030	1,060	9.9	10.4
Iowa .....	5,190	5,210	18.7	19.8	2,310	2,610	8.3	9.9
Minnesota .....	2,640	2,700	15.2	15.7	1,790	1,920	10.3	11.2
Missouri .....	1,620	1,600	15.3	15.4	990	1,100	9.3	10.6
Wisconsin .....	1,880	1,950	17.2	17.9	1,530	1,550	14.0	14.2
Other States .....	2,840	2,860	15.6	15.9	2,110	2,100	11.6	11.7
Total .....	16,950	16,700	15.0	15.3	11,470	11,900	10.1	10.9
<b>Plains</b>								
Kansas .....	3,250	2,500	16.1	14.1	1,400	1,420	6.9	8.0
Nebraska .....	2,650	2,470	11.7	11.4	1,910	1,980	8.4	9.1
Texas .....	4,460	4,560	18.5	19.1	2,670	2,750	11.1	11.5
Other States .....	1,790	1,870	6.8	7.3	3,150	3,100	11.9	12.1
Total .....	12,150	11,400	13.0	12.8	9,130	9,250	9.8	10.4
<b>West</b>								
California .....	4,050	3,930	11.4	11.5	6,490	5,750	18.3	16.8
Washington .....	750	830	8.9	10.2	1,590	1,420	18.9	17.5
Other States .....	5,800	4,690	18.7	16.1	3,920	4,080	12.7	14.0
Total .....	10,600	9,450	14.1	13.2	12,000	11,250	16.0	15.8
<b>United States .....</b>	<b>58,500</b>	<b>55,600</b>	<b>16.1</b>	<b>16.0</b>	<b>41,600</b>	<b>41,700</b>	<b>11.5</b>	<b>12.0</b>

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## Farm Production Expenditures – Region, State, and United States: 2015 and 2016 (Continued)

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Region and state	Rent				Agricultural chemicals			
	2015	2016	2015	2016	2015	2016	2015	2016
	(million dollars)	(million dollars)	(percent of total)	(percent of total)	(million dollars)	(million dollars)	(percent of total)	(percent of total)
<b>Atlantic</b>								
North Carolina .....	270	260	2.6	2.5	320	300	3.0	2.9
Other States .....	1,460	1,480	4.3	4.7	870	860	2.6	2.7
Total .....	1,730	1,740	3.9	4.1	1,190	1,160	2.7	2.8
<b>South</b>								
Arkansas .....	730	700	8.9	8.6	400	450	4.9	5.6
Florida .....	150	120	2.6	2.0	360	420	6.2	7.1
Georgia .....	240	200	3.2	2.8	320	340	4.2	4.8
Other States .....	950	780	6.1	5.4	760	750	4.9	5.2
Total .....	2,070	1,800	5.6	5.1	1,840	1,960	5.0	5.5
<b>Midwest</b>								
Illinois .....	3,810	3,570	21.3	22.6	1,110	1,130	6.2	7.1
Indiana .....	1,540	1,580	14.8	15.4	500	560	4.8	5.5
Iowa .....	3,970	3,570	14.3	13.6	990	1,130	3.6	4.3
Minnesota .....	2,110	2,120	12.2	12.3	690	710	4.0	4.1
Missouri .....	1,090	990	10.3	9.5	500	510	4.7	4.9
Wisconsin .....	590	590	5.4	5.4	320	330	2.9	3.0
Other States .....	1,270	1,330	7.0	7.4	730	720	4.0	4.0
Total .....	14,380	13,750	12.7	12.6	4,840	5,090	4.3	4.7
<b>Plains</b>								
Kansas .....	1,470	1,540	7.3	8.7	730	770	3.6	4.4
Nebraska .....	2,590	2,560	11.4	11.8	770	790	3.4	3.6
Texas .....	1,020	1,040	4.2	4.4	590	600	2.4	2.5
Other States .....	3,000	3,070	11.4	12.0	1,560	1,510	5.9	5.9
Total .....	8,080	8,210	8.6	9.2	3,650	3,670	3.9	4.1
<b>West</b>								
California .....	2,120	1,890	6.0	5.5	1,650	1,840	4.6	5.4
Washington .....	670	580	8.0	7.2	450	440	5.3	5.4
Other States .....	1,950	1,830	6.3	6.3	980	1,040	3.2	3.6
Total .....	4,740	4,300	6.3	6.0	3,080	3,320	4.1	4.7
<b>United States .....</b>	<b>31,000</b>	<b>29,800</b>	<b>8.5</b>	<b>8.6</b>	<b>14,600</b>	<b>15,200</b>	<b>4.0</b>	<b>4.4</b>

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## Farm Production Expenditures – Region, State, and United States: 2015 and 2016 (Continued)

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Region and state	Fertilizer, lime and soil conditioners				Interest			
	2015 (million dollars)	2016 (million dollars)	2015 (percent of total)	2016 (percent of total)	2015 (million dollars)	2016 (million dollars)	2015 (percent of total)	2016 (percent of total)
<b>Atlantic</b>								
North Carolina .....	470	420	4.5	4.1	160	150	1.5	1.5
Other States .....	1,820	1,770	5.4	5.6	920	800	2.7	2.5
Total .....	2,290	2,190	5.2	5.2	1,080	950	2.4	2.3
<b>South</b>								
Arkansas .....	480	500	5.8	6.2	200	180	2.4	2.2
Florida .....	480	490	8.3	8.3	120	90	2.1	1.5
Georgia .....	470	420	6.2	5.9	180	120	2.4	1.7
Other States .....	990	830	6.4	5.8	290	300	1.9	2.1
Total .....	2,420	2,240	6.5	6.3	790	690	2.1	1.9
<b>Midwest</b>								
Illinois .....	2,210	1,870	12.4	11.8	460	420	2.6	2.7
Indiana .....	1,200	1,060	11.5	10.4	330	320	3.2	3.1
Iowa .....	2,040	1,880	7.4	7.1	740	750	2.7	2.8
Minnesota .....	1,650	1,440	9.5	8.4	570	580	3.3	3.4
Missouri .....	930	790	8.8	7.6	350	390	3.3	3.8
Wisconsin .....	780	710	7.1	6.5	430	420	3.9	3.8
Other States .....	1,500	1,340	8.2	7.4	530	540	2.9	3.0
Total .....	10,310	9,090	9.1	8.3	3,410	3,420	3.0	3.1
<b>Plains</b>								
Kansas .....	1,030	980	5.1	5.5	380	350	1.9	2.0
Nebraska .....	1,430	1,360	6.3	6.3	480	560	2.1	2.6
Texas .....	940	910	3.9	3.8	410	420	1.7	1.8
Other States .....	2,600	2,480	9.8	9.7	990	940	3.7	3.7
Total .....	6,000	5,730	6.4	6.4	2,260	2,270	2.4	2.6
<b>West</b>								
California .....	2,060	2,150	5.8	6.3	830	610	2.3	1.8
Washington .....	560	500	6.7	6.2	260	200	3.1	2.5
Other States .....	1,860	1,600	6.0	5.5	870	960	2.8	3.3
Total .....	4,480	4,250	6.0	6.0	1,960	1,770	2.6	2.5
<b>United States .....</b>	<b>25,500</b>	<b>23,500</b>	<b>7.0</b>	<b>6.8</b>	<b>9,500</b>	<b>9,100</b>	<b>2.6</b>	<b>2.6</b>

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## Farm Production Expenditures – Region, State, and United States: 2015 and 2016 (Continued)

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Region and state	Taxes				Labor			
	2015	2016	2015	2016	2015	2016	2015	2016
	(million dollars)	(million dollars)	(percent of total)	(percent of total)	(million dollars)	(million dollars)	(percent of total)	(percent of total)
<b>Atlantic</b>								
North Carolina .....	210	210	2.0	2.0	750	840	7.1	8.1
Other States .....	1,490	1,390	4.4	4.4	3,410	3,720	10.1	11.7
Total .....	1,700	1,600	3.8	3.8	4,160	4,560	9.4	10.8
<b>South</b>								
Arkansas .....	160	180	1.9	2.2	380	360	4.6	4.4
Florida .....	210	200	3.6	3.4	1,710	1,770	29.5	30.0
Georgia .....	180	170	2.4	2.4	540	520	7.1	7.3
Other States .....	350	330	2.3	2.3	920	750	5.9	5.2
Total .....	900	880	2.4	2.5	3,550	3,400	9.6	9.6
<b>Midwest</b>								
Illinois .....	610	460	3.4	2.9	600	590	3.4	3.7
Indiana .....	480	410	4.6	4.0	410	450	3.9	4.4
Iowa .....	830	840	3.0	3.2	700	760	2.5	2.9
Minnesota .....	690	670	4.0	3.9	660	750	3.8	4.4
Missouri .....	310	260	2.9	2.5	350	390	3.3	3.8
Wisconsin .....	450	380	4.1	3.5	880	1,070	8.1	9.8
Other States .....	900	770	4.9	4.3	1,720	1,880	9.4	10.4
Total .....	4,270	3,790	3.8	3.5	5,320	5,890	4.7	5.4
<b>Plains</b>								
Kansas .....	600	560	3.0	3.2	580	650	2.9	3.7
Nebraska .....	1,210	1,110	5.3	5.1	710	700	3.1	3.2
Texas .....	930	940	3.9	3.9	2,060	1,840	8.5	7.7
Other States .....	910	870	3.4	3.4	720	810	2.7	3.2
Total .....	3,650	3,480	3.9	3.9	4,070	4,000	4.4	4.5
<b>West</b>								
California .....	1,080	1,020	3.0	3.0	9,240	9,880	26.0	28.9
Washington .....	230	240	2.7	3.0	1,840	2,070	21.9	25.5
Other States .....	970	890	3.1	3.1	3,620	4,300	11.7	14.8
Total .....	2,280	2,150	3.0	3.0	14,700	16,250	19.6	22.8
<b>United States .....</b>	<b>12,800</b>	<b>11,900</b>	<b>3.5</b>	<b>3.4</b>	<b>31,800</b>	<b>34,100</b>	<b>8.8</b>	<b>9.8</b>

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## Farm Production Expenditures – Region, State, and United States: 2015 and 2016 (Continued)

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Region and state	Fuel				Farm supplies and repairs			
	2015 (million dollars)	2016 (million dollars)	2015 (percent of total)	2016 (percent of total)	2015 (million dollars)	2016 (million dollars)	2015 (percent of total)	2016 (percent of total)
<b>Atlantic</b>								
North Carolina .....	340	290	3.2	2.8	360	370	3.4	3.6
Other States .....	1,310	1,100	3.9	3.5	2,550	2,180	7.6	6.9
Total .....	1,650	1,390	3.7	3.3	2,910	2,550	6.6	6.1
<b>South</b>								
Arkansas .....	410	400	5.0	4.9	350	360	4.3	4.4
Florida .....	210	230	3.6	3.9	350	330	6.0	5.6
Georgia .....	290	250	3.8	3.5	290	260	3.8	3.6
Other States .....	650	600	4.2	4.2	830	680	5.4	4.7
Total .....	1,560	1,480	4.2	4.2	1,820	1,630	4.9	4.6
<b>Midwest</b>								
Illinois .....	580	480	3.2	3.0	760	700	4.3	4.4
Indiana .....	340	300	3.3	2.9	500	460	4.8	4.5
Iowa .....	690	660	2.5	2.5	1,050	1,040	3.8	3.9
Minnesota .....	600	530	3.5	3.1	870	920	5.0	5.3
Missouri .....	390	340	3.7	3.3	530	520	5.0	5.0
Wisconsin .....	380	330	3.5	3.0	800	840	7.3	7.7
Other States .....	680	580	3.7	3.2	1,030	1,080	5.7	6.0
Total .....	3,660	3,220	3.2	3.0	5,540	5,560	4.9	5.1
<b>Plains</b>								
Kansas .....	470	450	2.3	2.5	620	630	3.1	3.6
Nebraska .....	540	550	2.4	2.5	820	850	3.6	3.9
Texas .....	800	790	3.3	3.3	1,050	930	4.4	3.9
Other States .....	1,140	980	4.3	3.8	1,620	1,360	6.1	5.3
Total .....	2,950	2,770	3.2	3.1	4,110	3,770	4.4	4.2
<b>West</b>								
California .....	1,140	1,120	3.2	3.3	1,780	1,580	5.0	4.6
Washington .....	220	230	2.6	2.8	510	520	6.1	6.4
Other States .....	1,120	1,090	3.6	3.8	2,030	1,990	6.6	6.8
Total .....	2,480	2,440	3.3	3.4	4,320	4,090	5.8	5.7
<b>United States .....</b>	<b>12,300</b>	<b>11,300</b>	<b>3.4</b>	<b>3.3</b>	<b>18,700</b>	<b>17,600</b>	<b>5.2</b>	<b>5.1</b>

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## Farm Production Expenditures – Region, State, and United States: 2015 and 2016 (Continued)

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Region and state	Farm improvements and construction				Tractors and self-propelled farm machinery			
	2015 (million dollars)	2016 (million dollars)	2015 (percent of total)	2016 (percent of total)	2015 (million dollars)	2016 (million dollars)	2015 (percent of total)	2016 (percent of total)
<b>Atlantic</b>								
North Carolina .....	290	300	2.8	2.9	310	230	2.9	2.2
Other States .....	2,130	2,140	6.3	6.7	1,810	1,280	5.4	4.0
Total .....	2,420	2,440	5.5	5.8	2,120	1,510	4.8	3.6
<b>South</b>								
Arkansas .....	260	270	3.2	3.3	300	280	3.6	3.5
Florida .....	210	220	3.6	3.7	100	110	1.7	1.9
Georgia .....	230	200	3.0	2.8	250	270	3.3	3.8
Other States .....	630	570	4.1	4.0	730	470	4.7	3.3
Total .....	1,330	1,260	3.6	3.5	1,380	1,130	3.7	3.2
<b>Midwest</b>								
Illinois .....	620	430	3.5	2.7	600	640	3.4	4.0
Indiana .....	520	360	5.0	3.5	300	320	2.9	3.1
Iowa .....	880	890	3.2	3.4	610	620	2.2	2.4
Minnesota .....	730	740	4.2	4.3	530	510	3.1	3.0
Missouri .....	560	520	5.3	5.0	560	570	5.3	5.5
Wisconsin .....	900	910	8.2	8.3	400	360	3.7	3.3
Other States .....	1,180	890	6.5	4.9	540	530	3.0	2.9
Total .....	5,390	4,740	4.8	4.4	3,540	3,550	3.1	3.3
<b>Plains</b>								
Kansas .....	340	360	1.7	2.0	390	400	1.9	2.3
Nebraska .....	530	430	2.3	2.0	450	430	2.0	2.0
Texas .....	830	840	3.4	3.5	960	920	4.0	3.8
Other States .....	1,450	1,280	5.5	5.0	1,240	1,300	4.7	5.1
Total .....	3,150	2,910	3.4	3.3	3,040	3,050	3.3	3.4
<b>West</b>								
California .....	1,830	1,210	5.1	3.5	520	330	1.5	1.0
Washington .....	360	310	4.3	3.8	210	150	2.5	1.9
Other States .....	1,620	1,630	5.2	5.6	1,090	880	3.5	3.0
Total .....	3,810	3,150	5.1	4.4	1,820	1,360	2.4	1.9
<b>United States .....</b>	<b>16,100</b>	<b>14,500</b>	<b>4.4</b>	<b>4.2</b>	<b>11,900</b>	<b>10,600</b>	<b>3.3</b>	<b>3.1</b>

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## Farm Production Expenditures – Region, State, and United States: 2015 and 2016 (Continued)

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Region and state	Other farm machinery				Seeds and plants			
	2015	2016	2015	2016	2015	2016	2015	2016
	(million dollars)	(million dollars)	(percent of total)	(percent of total)	(million dollars)	(million dollars)	(percent of total)	(percent of total)
<b>Atlantic</b>								
North Carolina .....	90	70	0.9	0.7	380	370	3.6	3.6
Other States .....	790	630	2.3	2.0	1,640	1,830	4.9	5.8
Total .....	880	700	2.0	1.7	2,020	2,200	4.6	5.2
<b>South</b>								
Arkansas .....	120	90	1.5	1.1	490	520	6.0	6.4
Florida .....	50	30	0.9	0.5	490	480	8.5	8.1
Georgia .....	100	70	1.3	1.0	410	330	5.4	4.6
Other States .....	240	160	1.6	1.1	800	750	5.2	5.2
Total .....	510	350	1.4	1.0	2,190	2,080	5.9	5.9
<b>Midwest</b>								
Illinois .....	330	360	1.8	2.3	2,030	1,860	11.4	11.8
Indiana .....	190	160	1.8	1.6	950	960	9.1	9.4
Iowa .....	380	370	1.4	1.4	2,010	2,030	7.2	7.7
Minnesota .....	350	310	2.0	1.8	1,610	1,600	9.3	9.3
Missouri .....	290	220	2.7	2.1	660	690	6.2	6.7
Wisconsin .....	310	250	2.8	2.3	670	650	6.1	6.0
Other States .....	400	410	2.2	2.3	1,620	1,680	8.9	9.3
Total .....	2,250	2,080	2.0	1.9	9,550	9,470	8.4	8.7
<b>Plains</b>								
Kansas .....	290	200	1.4	1.1	700	720	3.5	4.1
Nebraska .....	420	290	1.8	1.3	1,230	1,260	5.4	5.8
Texas .....	330	220	1.4	0.9	830	890	3.4	3.7
Other States .....	560	450	2.1	1.8	2,030	2,140	7.7	8.3
Total .....	1,600	1,160	1.7	1.3	4,790	5,010	5.1	5.6
<b>West</b>								
California .....	210	180	0.6	0.5	1,530	1,750	4.3	5.1
Washington .....	120	100	1.4	1.2	360	310	4.3	3.8
Other States .....	530	430	1.7	1.5	860	980	2.8	3.4
Total .....	860	710	1.1	1.0	2,750	3,040	3.7	4.3
<b>United States .....</b>	<b>6,100</b>	<b>5,000</b>	<b>1.7</b>	<b>1.4</b>	<b>21,300</b>	<b>21,800</b>	<b>5.9</b>	<b>6.3</b>

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## Farm Production Expenditures – Region, State, and United States: 2015 and 2016 (Continued)

[For definitions of terms used in this table, see Terms and Definitions. Excluding Alaska and Hawaii. Totals may not add due to rounding]

Region and state	Trucks and autos				Miscellaneous capital expenses			
	2015	2016	2015	2016	2015	2016	2015	2016
	(million dollars)	(million dollars)	(percent of total)	(percent of total)	(million dollars)	(million dollars)	(percent of total)	(percent of total)
<b>Atlantic</b>								
North Carolina .....	110	120	1.0	1.2	10	20	0.1	0.2
Other States .....	800	590	2.4	1.9	100	80	0.3	0.3
Total .....	910	710	2.1	1.7	110	100	0.2	0.2
<b>South</b>								
Arkansas .....	130	120	1.6	1.5	10	15	0.1	0.2
Florida .....	90	80	1.6	1.4	10	10	0.2	0.2
Georgia .....	85	100	1.1	1.4	5	20	0.1	0.3
Other States .....	265	250	1.7	1.7	15	15	0.1	0.1
Total .....	570	550	1.5	1.5	40	60	0.1	0.2
<b>Midwest</b>								
Illinois .....	160	140	0.9	0.9	30	35	0.2	0.2
Indiana .....	115	120	1.1	1.2	15	35	0.1	0.3
Iowa .....	210	160	0.8	0.6	30	45	0.1	0.2
Minnesota .....	170	160	1.0	0.9	20	25	0.1	0.1
Missouri .....	210	250	2.0	2.4	50	45	0.5	0.4
Wisconsin .....	120	100	1.1	0.9	20	10	0.2	0.1
Other States .....	165	240	0.9	1.3	35	45	0.2	0.2
Total .....	1,150	1,170	1.0	1.1	200	240	0.2	0.2
<b>Plains</b>								
Kansas .....	190	140	0.9	0.8	20	30	0.1	0.2
Nebraska .....	200	180	0.9	0.8	30	30	0.1	0.1
Texas .....	490	500	2.0	2.1	40	80	0.2	0.3
Other States .....	610	440	2.3	1.7	60	80	0.2	0.3
Total .....	1,490	1,260	1.6	1.4	150	220	0.2	0.2
<b>West</b>								
California .....	240	190	0.7	0.6	40	30	0.1	0.1
Washington .....	100	90	1.2	1.1	10	15	0.1	0.2
Other States .....	540	430	1.7	1.5	150	135	0.5	0.5
Total .....	880	710	1.2	1.0	200	180	0.3	0.3
<b>United States .....</b>	<b>5,000</b>	<b>4,400</b>	<b>1.4</b>	<b>1.3</b>	<b>700</b>	<b>800</b>	<b>0.2</b>	<b>0.2</b>



## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Atlantic Region: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	23.5	30.2	10,116	9,252	4,150	3,780
Feed .....	66.0	69.0	24,497	23,082	10,050	9,430
Farm services .....	94.6	95.0	11,749	12,483	4,820	5,100
Rent .....	19.4	27.9	4,217	4,259	1,730	1,740
Agricultural chemicals .....	33.9	42.5	2,901	2,839	1,190	1,160
Fertilizer, lime and soil conditioners .....	51.1	59.2	5,582	5,361	2,290	2,190
Interest .....	28.1	26.1	2,633	2,325	1,080	950
Taxes .....	100.0	100.0	4,144	3,916	1,700	1,600
Labor .....	25.6	25.0	10,140	11,162	4,160	4,560
Fuel .....	94.1	91.4	4,022	3,402	1,650	1,390
Farm supplies and repairs .....	90.1	87.9	7,093	6,242	2,910	2,550
Farm improvements and construction .....	51.9	50.3	5,899	5,972	2,420	2,440
Tractors and self-propelled farm machinery .....	16.8	13.1	5,168	3,696	2,120	1,510
Other farm machinery .....	15.7	14.4	2,145	1,713	880	700
Seeds and plants .....	34.7	34.4	4,924	5,385	2,020	2,200
Trucks and autos .....	13.1	8.6	2,218	1,738	910	710
Miscellaneous capital expenses .....	4.4	5.5	268	245	110	100
Total farm production expenditures .....	100.0	100.0	107,715	103,074	44,190	42,110

## Farm Production Expenditures Total by Year – Atlantic Region: 2012-2016

[For definitions of terms used in this table, see Terms and Definitions]

Expenditure	2012	2013	2014	2015	2016
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	3,970	4,300	4,600	4,150	3,780
Feed .....	10,000	10,810	10,630	10,050	9,430
Farm services .....	4,870	4,400	5,290	4,820	5,100
Rent .....	1,580	1,550	1,810	1,730	1,740
Agricultural chemicals .....	1,230	1,250	1,320	1,190	1,160
Fertilizer, lime and soil conditioners .....	2,470	2,610	2,620	2,290	2,190
Interest .....	980	910	1,120	1,080	950
Taxes .....	1,580	1,510	1,970	1,700	1,600
Labor .....	4,290	4,660	4,510	4,160	4,560
Fuel .....	2,060	2,200	2,190	1,650	1,390
Farm supplies and repairs .....	2,670	2,720	3,000	2,910	2,550
Farm improvements and construction .....	2,470	2,460	2,700	2,420	2,440
Tractors and self-propelled farm machinery .....	1,900	2,220	2,120	2,120	1,510
Other farm machinery .....	890	1,050	1,190	880	700
Seeds and plants .....	1,920	1,990	2,190	2,020	2,200
Trucks and autos .....	580	700	860	910	710
Miscellaneous capital expenses .....	80	80	70	110	100
Total farm production expenditures .....	43,540	45,420	48,190	44,190	42,110

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – North Carolina: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	24.8	28.6	42,828	40,208	2,090	1,930
Feed .....	60.6	60.8	71,107	71,667	3,470	3,440
Farm services .....	93.7	96.1	18,238	21,042	890	1,010
Rent .....	29.3	30.6	5,533	5,417	270	260
Agricultural chemicals .....	48.1	51.5	6,557	6,250	320	300
Fertilizer, lime and soil conditioners .....	62.3	61.5	9,631	8,750	470	420
Interest .....	28.0	29.0	3,279	3,125	160	150
Taxes .....	100.0	100.0	4,303	4,375	210	210
Labor .....	31.2	24.6	15,369	17,500	750	840
Fuel .....	92.5	91.7	6,967	6,042	340	290
Farm supplies and repairs .....	89.5	86.8	7,377	7,708	360	370
Farm improvements and construction .....	55.8	53.1	5,943	6,250	290	300
Tractors and self-propelled farm machinery .....	16.3	13.3	6,352	4,792	310	230
Other farm machinery .....	14.0	14.8	1,844	1,458	90	70
Seeds and plants .....	46.7	38.5	7,787	7,708	380	370
Trucks and autos .....	13.3	12.0	2,254	2,500	110	120
Miscellaneous capital expenses .....	1.8	6.2	205	417	10	20
Total farm production expenditures .....	100.0	100.0	215,574	215,208	10,520	10,330

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – All Other States, Atlantic Region: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	23.3	30.5	5,699	5,131	2,060	1,850
Feed .....	66.8	70.1	18,204	16,614	6,580	5,990
Farm services .....	94.7	94.9	10,873	11,344	3,930	4,090
Rent .....	18.1	27.5	4,039	4,105	1,460	1,480
Agricultural chemicals .....	31.9	41.3	2,407	2,385	870	860
Fertilizer, lime and soil conditioners .....	49.6	58.8	5,035	4,909	1,820	1,770
Interest .....	28.2	25.7	2,545	2,219	920	800
Taxes .....	100.0	100.0	4,122	3,855	1,490	1,390
Labor .....	24.8	25.1	9,434	10,318	3,410	3,720
Fuel .....	94.3	91.3	3,624	3,051	1,310	1,100
Farm supplies and repairs .....	90.2	88.1	7,055	6,046	2,550	2,180
Farm improvements and construction .....	51.4	49.9	5,893	5,936	2,130	2,140
Tractors and self-propelled farm machinery .....	16.8	13.1	5,008	3,550	1,810	1,280
Other farm machinery .....	15.9	14.4	2,186	1,747	790	630
Seeds and plants .....	33.1	33.9	4,537	5,076	1,640	1,830
Trucks and autos .....	13.1	8.2	2,213	1,636	800	590
Miscellaneous capital expenses .....	4.7	5.4	277	222	100	80
Total farm production expenditures .....	100.0	100.0	93,153	88,146	33,670	31,780

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – South Region: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	26.1	23.1	12,137	12,106	3,180	3,190
Feed .....	65.3	62.9	33,397	32,713	8,750	8,620
Farm services .....	94.0	89.9	15,954	15,939	4,180	4,200
Rent .....	24.5	23.6	7,901	6,831	2,070	1,800
Agricultural chemicals .....	42.8	47.2	7,023	7,438	1,840	1,960
Fertilizer, lime and soil conditioners .....	59.5	54.0	9,237	8,501	2,420	2,240
Interest .....	25.5	23.0	3,015	2,619	790	690
Taxes .....	98.7	99.3	3,435	3,340	900	880
Labor .....	26.4	24.0	13,550	12,903	3,550	3,400
Fuel .....	90.2	87.2	5,954	5,617	1,560	1,480
Farm supplies and repairs .....	84.7	81.6	6,947	6,186	1,820	1,630
Farm improvements and construction .....	48.3	44.9	5,076	4,782	1,330	1,260
Tractors and self-propelled farm machinery .....	15.1	10.7	5,267	4,288	1,380	1,130
Other farm machinery .....	15.7	11.9	1,947	1,328	510	350
Seeds and plants .....	35.2	32.1	8,359	7,894	2,190	2,080
Trucks and autos .....	14.6	10.9	2,176	2,087	570	550
Miscellaneous capital expenses .....	3.3	3.2	153	228	40	60
Total farm production expenditures .....	100.0	100.0	141,527	134,801	37,080	35,520

## Farm Production Expenditures Total by Year – South Region: 2012-2016

[For definitions of terms used in this table, see Terms and Definitions]

Expenditure	2012	2013	2014	2015	2016
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	2,800	2,990	3,750	3,180	3,190
Feed .....	10,090	10,310	9,990	8,750	8,620
Farm services .....	4,490	4,000	4,430	4,180	4,200
Rent .....	1,970	2,150	2,080	2,070	1,800
Agricultural chemicals .....	2,020	1,930	2,210	1,840	1,960
Fertilizer, lime and soil conditioners .....	2,860	2,760	2,600	2,420	2,240
Interest .....	660	660	760	790	690
Taxes .....	830	750	900	900	880
Labor .....	3,630	3,460	3,460	3,550	3,400
Fuel .....	1,900	1,860	1,970	1,560	1,480
Farm supplies and repairs .....	1,700	1,690	1,840	1,820	1,630
Farm improvements and construction .....	1,260	1,230	1,290	1,330	1,260
Tractors and self-propelled farm machinery .....	1,910	1,690	1,800	1,380	1,130
Other farm machinery .....	520	490	510	510	350
Seeds and plants .....	2,050	2,100	2,160	2,190	2,080
Trucks and autos .....	610	570	730	570	550
Miscellaneous capital expenses .....	30	30	20	40	60
Total farm production expenditures .....	39,330	38,670	40,500	37,080	35,520

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Arkansas: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	25.8	33.7	17,011	17,442	740	750
Feed .....	65.7	71.5	51,954	48,372	2,260	2,080
Farm services .....	92.1	94.0	18,621	19,767	810	850
Rent .....	26.1	32.1	16,782	16,279	730	700
Agricultural chemicals .....	37.5	44.5	9,195	10,465	400	450
Fertilizer, lime and soil conditioners .....	45.8	46.2	11,034	11,628	480	500
Interest .....	32.4	33.3	4,598	4,186	200	180
Taxes .....	99.2	99.5	3,678	4,186	160	180
Labor .....	25.5	24.5	8,736	8,372	380	360
Fuel .....	88.4	87.5	9,425	9,302	410	400
Farm supplies and repairs .....	81.7	84.5	8,046	8,372	350	360
Farm improvements and construction .....	47.9	50.4	5,977	6,279	260	270
Tractors and self-propelled farm machinery .....	16.0	17.1	6,897	6,512	300	280
Other farm machinery .....	15.2	15.5	2,759	2,093	120	90
Seeds and plants .....	24.7	23.5	11,264	12,093	490	520
Trucks and autos .....	17.0	14.3	2,989	2,791	130	120
Miscellaneous capital expenses .....	4.5	6.0	230	349	10	15
Total farm production expenditures .....	100.0	100.0	189,195	188,488	8,230	8,105

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Florida: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	24.0	25.5	2,960	2,548	140	120
Feed .....	63.3	60.0	8,668	9,342	410	440
Farm services .....	92.9	92.9	14,799	16,136	700	760
Rent .....	13.6	14.1	3,171	2,548	150	120
Agricultural chemicals .....	39.4	40.6	7,611	8,917	360	420
Fertilizer, lime and soil conditioners .....	60.1	47.1	10,148	10,403	480	490
Interest .....	18.8	15.7	2,537	1,911	120	90
Taxes .....	100.0	100.0	4,440	4,246	210	200
Labor .....	33.0	28.4	36,152	37,580	1,710	1,770
Fuel .....	84.5	81.0	4,440	4,883	210	230
Farm supplies and repairs .....	81.6	76.3	7,400	7,006	350	330
Farm improvements and construction .....	50.9	47.4	4,440	4,671	210	220
Tractors and self-propelled farm machinery .....	9.7	9.4	2,114	2,335	100	110
Other farm machinery .....	7.2	8.5	1,057	637	50	30
Seeds and plants .....	28.9	24.3	10,359	10,191	490	480
Trucks and autos .....	9.7	7.7	1,903	1,699	90	80
Miscellaneous capital expenses .....	2.6	2.7	211	212	10	10
Total farm production expenditures .....	100.0	100.0	122,410	125,265	5,790	5,900

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Georgia: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	27.6	22.3	21,481	20,096	870	840
Feed .....	61.7	53.3	56,049	52,153	2,270	2,180
Farm services .....	89.5	85.1	21,235	20,096	860	840
Rent .....	24.3	23.5	5,926	4,785	240	200
Agricultural chemicals .....	49.6	50.8	7,901	8,134	320	340
Fertilizer, lime and soil conditioners .....	60.3	57.8	11,605	10,048	470	420
Interest .....	30.4	29.2	4,444	2,871	180	120
Taxes .....	100.0	100.0	4,444	4,067	180	170
Labor .....	33.8	29.4	13,333	12,440	540	520
Fuel .....	91.7	85.0	7,160	5,981	290	250
Farm supplies and repairs .....	84.1	76.2	7,160	6,220	290	260
Farm improvements and construction .....	43.5	43.9	5,679	4,785	230	200
Tractors and self-propelled farm machinery .....	13.9	11.2	6,173	6,459	250	270
Other farm machinery .....	13.4	9.5	2,469	1,675	100	70
Seeds and plants .....	34.2	43.6	10,123	7,895	410	330
Trucks and autos .....	7.8	11.1	2,099	2,392	85	100
Miscellaneous capital expenses .....	1.5	4.9	123	478	5	20
Total farm production expenditures .....	100.0	100.0	187,407	170,574	7,590	7,130

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – All Other States, South Region: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	26.6	19.0	10,941	11,246	1,430	1,480
Feed .....	67.0	64.2	29,151	29,787	3,810	3,920
Farm services .....	96.4	88.9	13,849	13,298	1,810	1,750
Rent .....	28.0	24.2	7,269	5,927	950	780
Agricultural chemicals .....	43.8	49.4	5,815	5,699	760	750
Fertilizer, lime & soil conditioners .....	63.6	57.8	7,575	6,307	990	830
Interest .....	24.1	20.3	2,219	2,280	290	300
Taxes .....	97.7	98.8	2,678	2,508	350	330
Labor .....	21.9	20.5	7,039	5,699	920	750
Fuel .....	92.4	90.1	4,973	4,559	650	600
Farm supplies and repairs .....	86.9	84.4	6,350	5,167	830	680
Farm improvements and construction .....	48.9	42.5	4,820	4,331	630	570
Tractors and self-propelled farm machinery .....	17.2	9.0	5,585	3,571	730	470
Other farm machinery .....	19.6	12.6	1,836	1,216	240	160
Seeds and plants .....	41.2	34.1	6,121	5,699	800	750
Trucks and autos .....	17.8	10.8	2,028	1,900	265	250
Miscellaneous capital expenses .....	3.6	2.0	115	114	15	15
Total farm production expenditures .....	100.0	100.0	118,363	109,309	15,470	14,385

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Midwest Region: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	22.7	24.7	18,569	15,875	10,850	9,230
Feed .....	44.3	43.2	29,009	28,724	16,950	16,700
Farm services .....	91.4	89.9	19,630	20,468	11,470	11,900
Rent .....	36.7	35.2	24,611	23,650	14,380	13,750
Agricultural chemicals .....	48.7	51.1	8,283	8,755	4,840	5,090
Fertilizer, lime and soil conditioners .....	58.0	55.5	17,645	15,635	10,310	9,090
Interest .....	41.8	44.0	5,836	5,882	3,410	3,420
Taxes .....	100.0	100.0	7,308	6,519	4,270	3,790
Labor .....	21.8	22.6	9,105	10,131	5,320	5,890
Fuel .....	82.1	80.0	6,264	5,538	3,660	3,220
Farm supplies and repairs .....	79.7	78.6	9,481	9,563	5,540	5,560
Farm improvements and construction .....	53.4	50.9	9,225	8,153	5,390	4,740
Tractors and self-propelled farm machinery .....	14.0	13.2	6,059	6,106	3,540	3,550
Other farm machinery .....	19.1	18.8	3,851	3,578	2,250	2,080
Seeds and plants .....	53.6	50.9	16,344	16,288	9,550	9,470
Trucks and autos .....	11.5	11.7	1,968	2,012	1,150	1,170
Miscellaneous capital expenses .....	4.4	4.1	342	413	200	240
Total farm production expenditures .....	100.0	100.0	193,531	187,289	113,080	108,890

## Farm Production Expenditures Total by Year – Midwest Region: 2012-2016

[For definitions of terms used in this table, see Terms and Definitions]

Expenditure	2012	2013	2014	2015	2016
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	8,070	8,500	10,600	10,850	9,230
Feed .....	15,220	16,330	17,560	16,950	16,700
Farm services .....	10,630	10,530	11,830	11,470	11,900
Rent .....	14,240	15,360	15,710	14,380	13,750
Agricultural chemicals .....	4,700	5,170	5,080	4,840	5,090
Fertilizer, lime and soil conditioners .....	12,240	11,990	10,860	10,310	9,090
Interest .....	3,070	3,250	3,450	3,410	3,420
Taxes .....	3,830	3,740	4,760	4,270	3,790
Labor .....	5,760	5,000	5,590	5,320	5,890
Fuel .....	4,620	4,900	5,100	3,660	3,220
Farm supplies and repairs .....	5,590	5,700	5,780	5,540	5,560
Farm improvements and construction .....	5,410	5,570	6,560	5,390	4,740
Tractors and self-propelled farm machinery .....	6,570	6,570	5,790	3,540	3,550
Other farm machinery .....	3,510	3,990	3,800	2,250	2,080
Seeds and plants .....	9,720	10,110	9,830	9,550	9,470
Trucks and autos .....	1,460	1,540	1,530	1,150	1,170
Miscellaneous capital expenses .....	155	150	200	200	240
Total farm production expenditures .....	114,795	118,400	124,030	113,080	108,890

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Illinois: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	13.4	13.4	11,821	8,864	870	640
Feed .....	28.6	23.4	18,614	12,881	1,370	930
Farm services .....	88.5	80.9	23,234	21,607	1,710	1,560
Rent .....	43.0	41.9	51,766	49,446	3,810	3,570
Agricultural chemicals .....	58.6	60.3	15,082	15,651	1,110	1,130
Fertilizer, lime and soil conditioners .....	61.8	61.3	30,027	25,900	2,210	1,870
Interest .....	40.2	36.9	6,250	5,817	460	420
Taxes .....	100.0	100.0	8,288	6,371	610	460
Labor .....	21.5	24.2	8,152	8,172	600	590
Fuel .....	79.6	73.7	7,880	6,648	580	480
Farm supplies and repairs .....	77.3	67.7	10,326	9,695	760	700
Farm improvements and construction .....	49.3	42.9	8,424	5,956	620	430
Tractors and self-propelled farm machinery .....	15.1	12.4	8,152	8,864	600	640
Other farm machinery .....	18.8	15.7	4,484	4,986	330	360
Seeds and plants .....	62.3	60.0	27,582	25,762	2,030	1,860
Trucks and autos .....	12.1	10.3	2,174	1,939	160	140
Miscellaneous capital expenses .....	4.1	3.3	408	485	30	35
Total farm production expenditures .....	100.0	100.0	242,663	219,044	17,860	15,815

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Indiana: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	20.4	28.1	9,879	10,957	570	630
Feed .....	45.2	43.8	24,437	25,217	1,410	1,450
Farm services .....	88.4	85.1	17,851	18,435	1,030	1,060
Rent .....	32.7	33.3	26,690	27,478	1,540	1,580
Agricultural chemicals .....	44.0	51.1	8,666	9,739	500	560
Fertilizer, lime and soil conditioners .....	58.2	53.4	20,797	18,435	1,200	1,060
Interest .....	48.7	38.7	5,719	5,565	330	320
Taxes .....	100.0	100.0	8,319	7,130	480	410
Labor .....	22.6	18.1	7,106	7,826	410	450
Fuel .....	82.0	79.6	5,893	5,217	340	300
Farm supplies and repairs .....	78.5	77.7	8,666	8,000	500	460
Farm improvements and construction .....	54.9	41.3	9,012	6,261	520	360
Tractors and self-propelled farm machinery .....	12.0	10.9	5,199	5,565	300	320
Other farm machinery .....	15.7	16.3	3,293	2,783	190	160
Seeds and plants .....	52.7	51.5	16,464	16,696	950	960
Trucks and autos .....	11.0	10.0	1,993	2,087	115	120
Miscellaneous capital expenses .....	3.1	3.9	260	609	15	35
Total farm production expenditures .....	100.0	100.0	180,243	178,000	10,400	10,235

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Iowa: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	27.4	28.3	58,514	43,448	5,120	3,780
Feed .....	39.2	38.0	59,314	59,885	5,190	5,210
Farm services .....	98.7	95.0	26,400	30,000	2,310	2,610
Rent .....	46.8	44.6	45,371	41,034	3,970	3,570
Agricultural chemicals .....	61.8	63.9	11,314	12,989	990	1,130
Fertilizer, lime and soil conditioners .....	63.4	60.4	23,314	21,609	2,040	1,880
Interest .....	48.3	50.1	8,457	8,621	740	750
Taxes .....	100.0	100.0	9,486	9,655	830	840
Labor .....	27.2	29.0	8,000	8,736	700	760
Fuel .....	78.0	74.6	7,886	7,586	690	660
Farm supplies and repairs .....	75.9	73.7	12,000	11,954	1,050	1,040
Farm improvements and construction .....	55.4	54.2	10,057	10,230	880	890
Tractors and self-propelled farm machinery .....	14.3	13.3	6,971	7,126	610	620
Other farm machinery .....	19.1	19.7	4,343	4,253	380	370
Seeds and plants .....	64.2	60.4	22,971	23,333	2,010	2,030
Trucks and autos .....	13.6	12.0	2,400	1,839	210	160
Miscellaneous capital expenses .....	4.3	5.5	343	517	30	45
Total farm production expenditures .....	100.0	100.0	317,143	302,816	27,750	26,345

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Minnesota: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	25.3	24.5	22,418	20,737	1,650	1,520
Feed .....	40.6	43.3	35,870	36,835	2,640	2,700
Farm services .....	96.0	94.9	24,321	26,194	1,790	1,920
Rent .....	41.0	41.6	28,668	28,922	2,110	2,120
Agricultural chemicals .....	54.7	55.4	9,375	9,686	690	710
Fertilizer, lime and soil conditioners .....	56.7	54.3	22,418	19,645	1,650	1,440
Interest .....	43.1	47.8	7,745	7,913	570	580
Taxes .....	100.0	100.0	9,375	9,141	690	670
Labor .....	25.1	28.3	8,967	10,232	660	750
Fuel .....	79.9	80.3	8,152	7,231	600	530
Farm supplies and repairs .....	78.3	78.8	11,821	12,551	870	920
Farm improvements and construction .....	59.1	55.2	9,918	10,095	730	740
Tractors and self-propelled farm machinery .....	14.7	14.3	7,201	6,958	530	510
Other farm machinery .....	23.2	21.1	4,755	4,229	350	310
Seeds and plants .....	58.9	55.1	21,875	21,828	1,610	1,600
Trucks and autos .....	14.2	13.5	2,310	2,183	170	160
Miscellaneous capital expenses .....	4.5	4.2	272	341	20	25
Total farm production expenditures .....	100.0	100.0	235,462	234,720	17,330	17,205



## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Missouri: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	27.6	33.7	12,461	12,293	1,210	1,190
Feed .....	60.6	58.7	16,684	16,529	1,620	1,600
Farm services .....	90.3	91.2	10,196	11,364	990	1,100
Rent .....	27.5	25.8	11,226	10,227	1,090	990
Agricultural chemicals .....	35.8	40.9	5,149	5,269	500	510
Fertilizer, lime and soil conditioners .....	55.1	62.3	9,578	8,161	930	790
Interest .....	37.1	39.8	3,605	4,029	350	390
Taxes .....	100.0	100.0	3,193	2,686	310	260
Labor .....	17.2	22.1	3,605	4,029	350	390
Fuel .....	81.1	86.2	4,016	3,512	390	340
Farm supplies and repairs .....	80.7	85.3	5,458	5,372	530	520
Farm improvements and construction .....	50.1	52.1	5,767	5,372	560	520
Tractors and self-propelled farm machinery .....	13.3	17.6	5,767	5,888	560	570
Other farm machinery .....	16.4	18.4	2,987	2,273	290	220
Seeds and plants .....	34.8	33.0	6,797	7,128	660	690
Trucks and autos .....	12.8	15.8	2,163	2,583	210	250
Miscellaneous capital expenses .....	6.9	6.7	515	465	50	45
Total farm production expenditures .....	100.0	100.0	109,166	107,180	10,600	10,375

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Wisconsin: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	27.3	27.3	6,531	6,696	450	460
Feed .....	51.5	55.4	27,286	28,384	1,880	1,950
Farm services .....	93.9	94.5	22,206	22,562	1,530	1,550
Rent .....	34.1	33.9	8,563	8,588	590	590
Agricultural chemicals .....	50.6	51.5	4,644	4,803	320	330
Fertilizer, lime and soil conditioners .....	59.5	54.7	11,321	10,335	780	710
Interest .....	41.1	48.4	6,241	6,114	430	420
Taxes .....	100.0	100.0	6,531	5,531	450	380
Labor .....	19.7	22.6	12,772	15,575	880	1,070
Fuel .....	88.5	83.5	5,515	4,803	380	330
Farm supplies and repairs .....	82.8	87.4	11,611	12,227	800	840
Farm improvements and construction .....	52.9	61.4	13,062	13,246	900	910
Tractors and self-propelled farm machinery .....	15.5	11.0	5,806	5,240	400	360
Other farm machinery .....	21.4	23.3	4,499	3,639	310	250
Seeds and plants .....	58.1	56.7	9,724	9,461	670	650
Trucks and autos .....	11.9	11.0	1,742	1,456	120	100
Miscellaneous capital expenses .....	5.3	1.6	290	146	20	10
Total farm production expenditures .....	100.0	100.0	158,345	158,806	10,910	10,910

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – All Other States, Midwest Region: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	18.1	19.0	7,784	8,022	980	1,010
Feed .....	42.1	39.1	22,558	22,716	2,840	2,860
Farm services .....	86.1	87.3	16,759	16,680	2,110	2,100
Rent .....	33.6	29.8	10,087	10,564	1,270	1,330
Agricultural chemicals .....	41.4	42.2	5,798	5,719	730	720
Fertilizer, lime and soil conditioners .....	54.3	45.5	11,914	10,643	1,500	1,340
Interest .....	38.4	45.1	4,210	4,289	530	540
Taxes .....	100.0	100.0	7,149	6,116	900	770
Labor .....	20.5	16.4	13,662	14,932	1,720	1,880
Fuel .....	85.0	80.8	5,401	4,607	680	580
Farm supplies and repairs .....	82.7	78.6	8,181	8,578	1,030	1,080
Farm improvements and construction .....	53.2	48.6	9,373	7,069	1,180	890
Tractors and self-propelled farm machinery .....	13.5	11.7	4,289	4,210	540	530
Other farm machinery .....	19.2	17.5	3,177	3,257	400	410
Seeds and plants .....	50.4	47.0	12,867	13,344	1,620	1,680
Trucks and autos .....	7.2	9.4	1,311	1,906	165	240
Miscellaneous capital expenses .....	2.7	2.8	278	357	35	45
Total farm production expenditures .....	100.0	100.0	144,797	143,010	18,230	18,005

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Plains Region: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	27.9	25.5	47,431	42,690	23,260	20,850
Feed .....	62.7	65.7	24,776	23,342	12,150	11,400
Farm services .....	90.0	91.0	18,617	18,939	9,130	9,250
Rent .....	34.6	33.2	16,476	16,810	8,080	8,210
Agricultural chemicals .....	42.1	43.8	7,443	7,514	3,650	3,670
Fertilizer, lime and soil conditioners .....	45.3	42.5	12,235	11,732	6,000	5,730
Interest .....	31.4	31.7	4,608	4,648	2,260	2,270
Taxes .....	100.0	100.0	7,443	7,125	3,650	3,480
Labor .....	29.5	26.3	8,299	8,190	4,070	4,000
Fuel .....	80.7	82.4	6,015	5,672	2,950	2,770
Farm supplies and repairs .....	75.6	78.7	8,381	7,719	4,110	3,770
Farm improvements and construction .....	49.2	48.3	6,423	5,958	3,150	2,910
Tractors and self-propelled farm machinery .....	14.9	13.6	6,199	6,245	3,040	3,050
Other farm machinery .....	16.4	15.1	3,263	2,375	1,600	1,160
Seeds and plants .....	34.9	29.3	9,768	10,258	4,790	5,010
Trucks and autos .....	15.3	14.1	3,038	2,580	1,490	1,260
Miscellaneous capital expenses .....	5.4	6.1	306	450	150	220
Total farm production expenditures .....	100.0	100.0	190,722	182,248	93,530	89,010

## Farm Production Expenditures Total by Year – Plains Region: 2012-2016

[For definitions of terms used in this table, see Terms and Definitions]

Expenditure	2012	2013	2014	2015	2016
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	15,610	14,980	21,680	23,260	20,850
Feed .....	13,110	12,180	12,950	12,150	11,400
Farm services .....	9,090	8,350	9,230	9,130	9,250
Rent .....	7,430	7,820	8,260	8,080	8,210
Agricultural chemicals .....	3,170	3,240	3,540	3,650	3,670
Fertilizer, lime and soil conditioners .....	6,930	6,550	6,940	6,000	5,730
Interest .....	1,910	2,000	2,290	2,260	2,270
Taxes .....	3,000	3,530	3,530	3,650	3,480
Labor .....	4,100	3,780	4,470	4,070	4,000
Fuel .....	3,900	4,220	4,100	2,950	2,770
Farm supplies and repairs .....	4,090	4,030	4,260	4,110	3,770
Farm improvements and construction .....	3,630	3,720	3,630	3,150	2,910
Tractors and self-propelled farm machinery .....	4,600	4,860	5,180	3,040	3,050
Other farm machinery .....	2,260	2,460	2,500	1,600	1,160
Seeds and plants .....	4,550	4,540	5,000	4,790	5,010
Trucks and autos .....	1,570	1,370	1,940	1,490	1,260
Miscellaneous capital expenses .....	65	60	120	150	220
Total farm production expenditures .....	89,015	87,690	99,620	93,530	89,010

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Kansas: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	24.6	29.9	128,642	100,671	7,770	6,000
Feed .....	45.7	52.3	53,808	41,946	3,250	2,500
Farm services .....	79.8	89.5	23,179	23,826	1,400	1,420
Rent .....	45.2	46.9	24,338	25,839	1,470	1,540
Agricultural chemicals .....	61.7	62.0	12,086	12,919	730	770
Fertilizer, lime and soil conditioners .....	52.6	59.0	17,053	16,443	1,030	980
Interest .....	36.8	42.3	6,291	5,872	380	350
Taxes .....	100.0	100.0	9,934	9,396	600	560
Labor .....	24.8	26.7	9,603	10,906	580	650
Fuel .....	69.8	80.8	7,781	7,550	470	450
Farm supplies and repairs .....	64.4	75.8	10,265	10,570	620	630
Farm improvements and construction .....	39.0	48.0	5,629	6,040	340	360
Tractors and self-propelled farm machinery .....	10.5	10.1	6,457	6,711	390	400
Other farm machinery .....	16.5	13.0	4,801	3,356	290	200
Seeds and plants .....	44.0	45.1	11,589	12,081	700	720
Trucks and autos .....	15.6	13.5	3,146	2,349	190	140
Miscellaneous capital expenses .....	4.0	5.0	331	503	20	30
Total farm production expenditures .....	100.0	100.0	334,934	296,980	20,230	17,700

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Nebraska: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	28.8	29.2	139,014	127,479	6,770	6,170
Feed .....	43.6	46.4	54,415	51,033	2,650	2,470
Farm services .....	92.5	90.3	39,220	40,909	1,910	1,980
Rent .....	55.3	53.9	53,183	52,893	2,590	2,560
Agricultural chemicals .....	63.1	64.3	15,811	16,322	770	790
Fertilizer, lime and soil conditioners .....	62.1	60.6	29,363	28,099	1,430	1,360
Interest .....	50.8	53.4	9,856	11,570	480	560
Taxes .....	100.0	100.0	24,846	22,934	1,210	1,110
Labor .....	30.7	29.4	14,579	14,463	710	700
Fuel .....	80.0	79.5	11,088	11,364	540	550
Farm supplies and repairs .....	79.9	80.9	16,838	17,562	820	850
Farm improvements and construction .....	48.6	46.2	10,883	8,884	530	430
Tractors and self-propelled farm machinery .....	11.3	13.4	9,240	8,884	450	430
Other farm machinery .....	20.5	23.1	8,624	5,992	420	290
Seeds and plants .....	64.5	59.9	25,257	26,033	1,230	1,260
Trucks and autos .....	19.1	18.8	4,107	3,719	200	180
Miscellaneous capital expenses .....	6.8	9.4	616	620	30	30
Total farm production expenditures .....	100.0	100.0	466,940	448,760	22,740	21,720

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Texas: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	24.2	22.0	23,636	23,478	5,720	5,670
Feed .....	72.8	78.2	18,430	18,882	4,460	4,560
Farm services .....	93.2	90.0	11,033	11,387	2,670	2,750
Rent .....	24.1	22.3	4,215	4,306	1,020	1,040
Agricultural chemicals .....	29.3	33.9	2,438	2,484	590	600
Fertilizer, lime and soil conditioners .....	41.4	34.3	3,884	3,768	940	910
Interest .....	16.7	17.4	1,694	1,739	410	420
Taxes .....	100.0	100.0	3,843	3,892	930	940
Labor .....	28.9	25.4	8,512	7,619	2,060	1,840
Fuel .....	84.2	83.8	3,306	3,271	800	790
Farm supplies and repairs .....	78.7	78.1	4,339	3,851	1,050	930
Farm improvements and construction .....	46.1	42.7	3,430	3,478	830	840
Tractors and self-propelled farm machinery .....	14.2	11.5	3,967	3,810	960	920
Other farm machinery .....	10.5	12.1	1,364	911	330	220
Seeds and plants .....	25.4	17.6	3,430	3,685	830	890
Trucks and autos .....	9.4	9.3	2,025	2,070	490	500
Miscellaneous capital expenses .....	4.4	4.3	165	331	40	80
Total farm production expenditures .....	100.0	100.0	99,711	98,965	24,130	23,900

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – All Other States, Plains Region: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	35.6	28.2	21,536	21,670	3,000	3,010
Feed .....	59.2	56.4	12,850	13,463	1,790	1,870
Farm services .....	88.1	93.5	22,613	22,318	3,150	3,100
Rent .....	40.9	39.0	21,536	22,102	3,000	3,070
Agricultural chemicals .....	48.6	46.2	11,199	10,871	1,560	1,510
Fertilizer, lime & soil conditioners .....	43.1	43.2	18,665	17,855	2,600	2,480
Interest .....	48.0	44.6	7,107	6,767	990	940
Taxes .....	100.0	100.0	6,533	6,263	910	870
Labor .....	32.1	26.5	5,169	5,832	720	810
Fuel .....	79.7	81.6	8,184	7,055	1,140	980
Farm supplies and repairs .....	73.7	80.3	11,630	9,791	1,620	1,360
Farm improvements and construction .....	59.4	59.0	10,409	9,215	1,450	1,280
Tractors and self-propelled farm machinery .....	19.3	18.8	8,902	9,359	1,240	1,300
Other farm machinery .....	25.1	18.4	4,020	3,240	560	450
Seeds and plants .....	36.9	32.2	14,573	15,407	2,030	2,140
Trucks and autos .....	24.2	21.1	4,379	3,168	610	440
Miscellaneous capital expenses .....	7.4	8.5	431	576	60	80
Total farm production expenditures .....	100.0	100.0	189,734	184,953	26,430	25,690

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – West Region: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	27.5	24.0	12,680	9,504	3,960	2,950
Feed .....	52.0	50.4	33,942	30,445	10,600	9,450
Farm services .....	93.3	89.5	38,425	36,244	12,000	11,250
Rent .....	25.2	23.7	15,178	13,853	4,740	4,300
Agricultural chemicals .....	36.2	39.2	9,862	10,696	3,080	3,320
Fertilizer, lime and soil conditioners .....	42.0	39.0	14,345	13,692	4,480	4,250
Interest .....	29.4	25.4	6,276	5,702	1,960	1,770
Taxes .....	97.8	97.0	7,301	6,927	2,280	2,150
Labor .....	37.7	33.5	47,070	52,352	14,700	16,250
Fuel .....	81.3	78.8	7,941	7,861	2,480	2,440
Farm supplies and repairs .....	75.0	75.7	13,833	13,177	4,320	4,090
Farm improvements and construction .....	49.6	47.3	12,200	10,148	3,810	3,150
Tractors and self-propelled farm machinery .....	11.1	13.6	5,828	4,381	1,820	1,360
Other farm machinery .....	12.0	11.8	2,754	2,287	860	710
Seeds and plants .....	28.3	26.3	8,806	9,794	2,750	3,040
Trucks and autos .....	12.3	11.8	2,818	2,287	880	710
Miscellaneous capital expenses .....	7.2	7.5	640	580	200	180
Total farm production expenditures .....	100.0	100.0	239,898	229,929	74,920	71,370

## Farm Production Expenditures Total by Year – West Region: 2012-2016

[For definitions of terms used in this table, see Terms and Definitions]

Expenditure	2012	2013	2014	2015	2016
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	3,050	3,430	4,470	3,960	2,950
Feed .....	12,080	12,770	12,570	10,600	9,450
Farm services .....	12,020	11,720	14,520	12,000	11,250
Rent .....	4,480	4,520	4,740	4,740	4,300
Agricultural chemicals .....	2,880	3,010	3,650	3,080	3,320
Fertilizer, lime and soil conditioners .....	4,300	4,390	4,980	4,480	4,250
Interest .....	1,780	1,880	2,080	1,960	1,770
Taxes .....	2,260	2,170	2,440	2,280	2,150
Labor .....	14,020	15,100	16,170	14,700	16,250
Fuel .....	3,120	3,220	3,340	2,480	2,440
Farm supplies and repairs .....	4,150	4,560	5,020	4,320	4,090
Farm improvements and construction .....	2,830	3,620	4,020	3,810	3,150
Tractors and self-propelled farm machinery .....	2,020	1,760	2,010	1,820	1,360
Other farm machinery .....	820	810	1,000	860	710
Seeds and plants .....	2,660	3,160	2,920	2,750	3,040
Trucks and autos .....	780	810	1,140	880	710
Miscellaneous capital expenses .....	170	160	190	200	180
Total farm production expenditures .....	73,420	77,090	85,260	74,920	71,370

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – California: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	17.6	18.1	9,419	9,648	730	740
Feed .....	30.2	28.2	52,258	51,239	4,050	3,930
Farm services .....	97.6	95.2	83,742	74,967	6,490	5,750
Rent .....	19.4	17.4	27,355	24,641	2,120	1,890
Agricultural chemicals .....	50.9	55.9	21,290	23,990	1,650	1,840
Fertilizer, lime and soil conditioners .....	60.2	59.1	26,581	28,031	2,060	2,150
Interest .....	24.4	22.3	10,710	7,953	830	610
Taxes .....	100.0	100.0	13,935	13,299	1,080	1,020
Labor .....	59.5	57.1	119,226	128,814	9,240	9,880
Fuel .....	83.4	82.1	14,710	14,602	1,140	1,120
Farm supplies and repairs .....	83.2	80.4	22,968	20,600	1,780	1,580
Farm improvements and construction .....	53.4	38.8	23,613	15,776	1,830	1,210
Tractors and self-propelled farm machinery .....	11.1	8.4	6,710	4,302	520	330
Other farm machinery .....	8.5	8.3	2,710	2,347	210	180
Seeds and plants .....	33.0	33.3	19,742	22,816	1,530	1,750
Trucks and autos .....	9.3	9.1	3,097	2,477	240	190
Miscellaneous capital expenses .....	5.3	4.2	516	391	40	30
Total farm production expenditures .....	100.0	100.0	458,581	445,893	35,540	34,200

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Washington: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	27.6	27.0	5,000	2,786	180	100
Feed .....	45.3	54.6	20,833	23,120	750	830
Farm services .....	86.2	86.4	44,167	39,554	1,590	1,420
Rent .....	19.9	22.6	18,611	16,156	670	580
Agricultural chemicals .....	37.1	38.2	12,500	12,256	450	440
Fertilizer, lime and soil conditioners .....	43.2	42.3	15,556	13,928	560	500
Interest .....	33.1	27.8	7,222	5,571	260	200
Taxes .....	100.0	100.0	6,389	6,685	230	240
Labor .....	28.9	30.7	51,111	57,660	1,840	2,070
Fuel .....	74.1	81.0	6,111	6,407	220	230
Farm supplies and repairs .....	75.4	79.9	14,167	14,485	510	520
Farm improvements and construction .....	45.5	49.4	10,000	8,635	360	310
Tractors and self-propelled farm machinery .....	10.3	11.4	5,833	4,178	210	150
Other farm machinery .....	14.0	16.0	3,333	2,786	120	100
Seeds and plants .....	30.4	28.0	10,000	8,635	360	310
Trucks and autos .....	11.7	11.9	2,778	2,507	100	90
Miscellaneous capital expenses .....	4.9	5.4	278	418	10	15
Total farm production expenditures .....	100.0	100.0	233,889	225,766	8,420	8,105

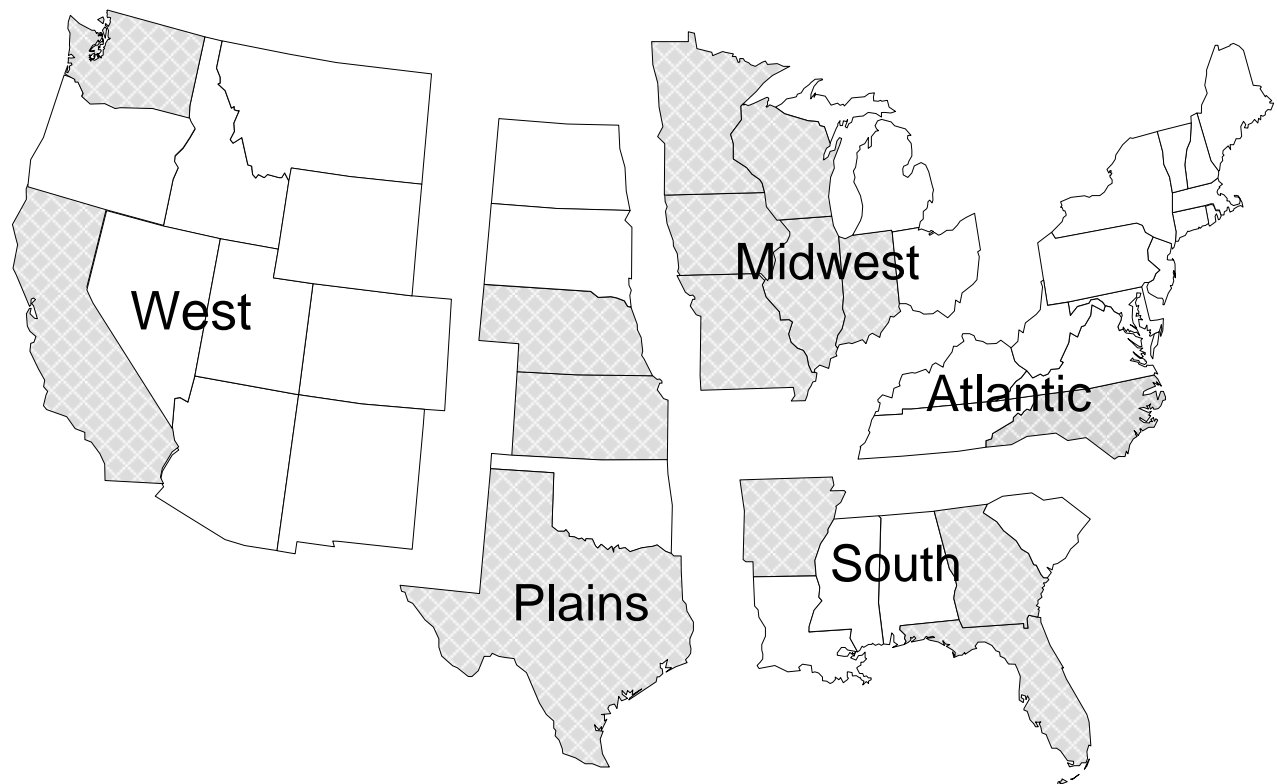
## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – All Other States, West Region: 2015 and 2016

[For definitions of terms used in this table, see Terms and Definitions. Totals may not add due to rounding]

Expenditure	Farms reporting		Average per farm		Total expenditures	
	2015	2016	2015	2016	2015	2016
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry and related expenses .....	31.3	25.8	15,342	10,667	3,050	2,110
Feed .....	61.7	58.2	29,175	23,711	5,800	4,690
Farm services .....	92.9	87.8	19,718	20,627	3,920	4,080
Rent .....	28.5	26.4	9,809	9,252	1,950	1,830
Agricultural chemicals .....	30.3	32.9	4,930	5,258	980	1,040
Fertilizer, lime & soil conditioners .....	34.7	30.6	9,356	8,089	1,860	1,600
Interest .....	30.7	26.1	4,376	4,853	870	960
Taxes .....	96.5	95.4	4,879	4,499	970	890
Labor .....	30.8	24.9	18,209	21,739	3,620	4,300
Fuel .....	81.9	77.2	5,634	5,511	1,120	1,090
Farm supplies and repairs .....	71.8	73.1	10,211	10,061	2,030	1,990
Farm improvements and construction .....	48.8	50.1	8,149	8,241	1,620	1,630
Tractors and self-propelled farm machinery .....	11.2	16.0	5,483	4,449	1,090	880
Other farm machinery .....	13.0	12.4	2,666	2,174	530	430
Seeds and plants .....	26.2	23.2	4,326	4,954	860	980
Trucks and autos .....	13.5	12.9	2,716	2,174	540	430
Miscellaneous capital expenses .....	8.4	9.2	755	683	150	135
Total farm production expenditures .....	100.0	100.0	155,734	146,941	30,960	29,065



# Farm Production Expenditure Regions



**Atlantic:** Connecticut, Delaware, Kentucky, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina<sup>1</sup>, Pennsylvania, Rhode Island, Tennessee, Vermont, Virginia, West Virginia

**South:** Alabama, Arkansas<sup>1</sup>, Florida<sup>1</sup>, Georgia<sup>1</sup>, Louisiana, Mississippi, South Carolina

**Midwest:** Illinois<sup>1</sup>, Indiana<sup>1</sup>, Iowa<sup>1</sup>, Michigan, Minnesota<sup>1</sup>, Missouri<sup>1</sup>, Ohio, Wisconsin<sup>1</sup>

**Plains:** Kansas<sup>1</sup>, Nebraska<sup>1</sup>, North Dakota, Oklahoma, South Dakota, Texas<sup>1</sup>

**West:** Arizona, California<sup>1</sup>, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington<sup>1</sup>, Wyoming

<sup>1</sup> Estimate State (shaded on map)

## Program History

The National Agricultural Statistics Service (NASS) has conducted periodic surveys of farm production expenditures since 1956, and annually since 1971. In 1973, Congress required USDA to provide Cost of Production estimates on an annual basis for wheat, feed grains, cotton, and dairy. Since then, other commodities were added to the Cost of Production program. The Farm Production Expenditure Survey and the Cost of Production Survey were combined and called the Farm Costs and Returns Survey (FCRS) beginning in 1985. The Agricultural Resource Management Survey (ARMS) replaced the former Cropping Practices Survey (CPS) and the FCRS in 1996, which improved the efficiency of data collection. The initiative to combine these surveys came from a growing need for more data to perform detailed comparisons of the relationship between various production practices (such as chemical and tillage use) and farm financial conditions.

NASS initiated an estimation program in calendar year 1993 for Farm Production Expenditures. For earlier years, Farm Production Expenditure publications included only survey indications for expenditures at the United States, regional, size and type of farm levels. Currently, estimates are published for major groupings of farm production expenses for the United States, five Farm Production Regions, eight United States Economic Sales Classes, two farm types, the 15 Leading Cash Receipts States, and five Other State groupings.

In 1993, due to increased demand for quality production input data, NASS and the Economic Research Service (ERS) began jointly setting estimates for production input costs. This change in procedure was facilitated by the adoption of new summary adjustments for non-response and farm coverage. The Agricultural Statistics Board establishes estimates for major expenditure items for the current year and considers revisions for the previous year's preliminary data. Formal release of expense data occurs before, but in coordination with, release of related ERS statistics such as net farm income.

One of the primary NASS uses of farm-production expenditure data is for weighting of Prices Paid Indexes. In early 1995, NASS completed a revision of the indexes. To facilitate this process, changes were made in component items estimated in this publication. Grazing fees were moved from the Farm Services category to Rent; Oils and Lubricants were moved from Fuels to Farm supplies and repairs; repairs and maintenance expenditures were moved from Other farm machinery to Farm supplies and repairs; and Building and fencing materials were combined with Farm and land improvements to make the Farm improvements and construction category. Estimates for these levels were revised back to 1990, at the United States level, to provide a more useful series for data users.

The uses of financial and demographic data collected in ARMS Phase III has widespread and significant impact on the agriculture industry. The data collected allows ERS to develop estimates that include farm income, cost of production for selected commodities, farm business balance sheets, farm productivity indicators, and analysis of farm financial and household characteristics. In addition, Congress, USDA, Bureau of Economic Analysis (BEA), researchers, Agricultural Extension, and agribusinesses utilize data to develop forecasts, conduct research projects, and establish and review farm policy. The demand for quality farm expenditure and income data continues to increase, as the agricultural community becomes increasingly more complex and integrated.

Economic classification has been revised over time. Before 2002, five United States Economic Classes for Gross Value of Sales were used in previous reports (see table below). In 2002, the United States Economic Classes were updated to be consistent with other NASS economic publications and seven United States Economic Classes for Gross Value of Sales were used. In 2007, a change was made to divide the largest economic class. See table below for historic economic class publication methods.

Prior to 2002	2002 to 2006	2007 to present
Less Than \$10,000	Less Than \$10,000	Less Than \$10,000
\$10,000 - \$39,999	\$10,000 - \$49,999	\$10,000 - \$49,999
\$40,000 - \$99,999	\$50,000 - \$99,999	\$50,000 - \$99,999
\$100,000 - \$249,999	\$100,000 - \$249,999	\$100,000 - \$249,999
\$250,000 and Over	\$250,000 - \$499,999	\$250,000 - \$499,999
-	\$500,000 - \$999,999	\$500,000 - \$999,999
-	\$1,000,000 and Over	\$1,000,000 - \$4,999,999
-	-	\$5,000,000 and Over

In 2003, Congress appropriated funding for the restoration and expansion of the ARMS program. The subsequent changes included an increased sample size, recombining of expenditure categories, fuel sub-component estimates, and a fully calibrated summary. ERS funding was used to support ARMS data collection. Sample sizes were increased in the 15 States with the highest cash receipts. The additional samples improved data quality and allowed for the publication of state level estimates the following year. NASS funding restored the ARMS III sample to historical levels, and restored the Field Crops Chemical Use Program and ARMS II - Production Practices Report.

The items included in the Farm improvement and construction expenditure were changed in 2003 to include expenses for the operator's dwelling (if the dwelling is owned by the operation). Fuels expense sub-components (diesel, gasoline, LP gas, and other) were published for the first time in 2003. Significant variations in energy prices over the last few years have made energy usage an important issue for all consumers.

In 2004, the first expenditure estimates were published for the 15 Leading Cash Receipts States. The Farm Production Regions were reduced from 10 to 5 regions. This change was made to allow NASS to publish state-level expenditure estimates without disclosing data for unpublished states. The map on page 41 shows the new distribution of regions and states.

In 2005, the Fuel sub-components sample was increased by adding the sub-component questions to two more questionnaire versions (versions four and five) in 2005 and to all questionnaires in 2006.

In 2006, a separate line item was added to the publication: Miscellaneous capital expenses. Summary inconsistencies with version five (CORE) questionnaires dictated that the former Miscellaneous expense be summarized with General business expense into Farms services expenditure.

In 2008, all eight economic classes were published for Total Farm Production Expenditures. The 2008 summary also included a significant recalibration of the 2007 data and substantial revisions to the 2007 estimates because of farm numbers released in the 2007 Agricultural Census. Similarly, the 2013 summary includes changes to the 2012 data and estimates, due to the farm numbers released in the 2012 Census of Agriculture.

For this survey, item level nonresponse is accounted for by imputing data where there are missing values. Beginning in 2014, item level imputations are now done using a multivariate approach. Prior to the implementation of the multivariate approach, NASS used an un-weighted conditional means imputation system that placed records into homogenous groups and imputed based off of reported data from those groups. The new multivariate approach uses a regression-based technique that allows for flexibility in the selection of conditional models while providing a valid joint distribution. In this procedure, labeled as Iterative Sequential Regression (ISR), parameter estimates and imputations are obtained using a Markov chain Monte Carlo sampling method. Using ISR, we are better able to preserve the relationships within the data and also allow the imputed values to better represent the variability of the data. Records with imputed data are re-edited to ensure the returned value is acceptable. The imputation algorithm delivers an acceptable value more than 99.5 percent of the time and Field Office statisticians are required to manually impute for any missing items.

## Statistical Methodology

**Survey:** The 2016 Agricultural Resource Management Survey

**Publication:** “Farm Production Expenditures 2016 Summary” was released on August 3, 2017. This publication is released early in August each year.

**Data Collection:** The Agricultural Resource Management Survey (ARMS III) was conducted January through April of 2017.

**Sampling:** ARMS III is a multi-frame survey, which utilizes a list frame (OL)/area frame (NOL) design. The list frame typically represents the larger, more specialized operations contributing the greater portion of the data expansions. The area frame provides coverage for the operations that are not available for sampling from the list. Since all of the operators on the list frame are also part of the area frame, rigorous procedures are followed to assure that operations are not double counted. These multiple frame expansions are unbiased and provide more precise expansions than could be obtained by using a single frame approach.

ARMS III covers a population of all farms in the 48 contiguous states (excluding Alaska and Hawaii) that meet the official USDA definition (all establishments that sold or would normally have sold at least \$1,000 of agricultural products during the previous year). These operations include not only traditional agricultural farms such as grain farms and ranching operations, but also specialty farms like orchards, nurseries, and aquaculture.

Sample Design creates an additional stratum (stratum 60) consisting of Farm Value of Sales (FVS) greater than \$5,000,000 in States that meet the threshold for the number of large operations in higher economic classes.

June Area Survey (JAS) area non-overlap tracts for ARMS III with June farm value of sales (FVS) \$1,000 or more, after point determination, were eligible for the 2015 ARMS sample. This includes operations that are determined to have pasture points only.

To ensure consistent and proper execution of survey procedures in farm determination, data collection, and editing of detailed expense, income data, and demographic data, specialized training occurred on the national and state levels prior to the ARMS data collection period. Data are collected using electronic data reporting (EDR), mail return, and personal enumeration.

**Sample:** The 2016 sample was 35,269 farms and ranches.

**Questionnaires:** The ARMS III Cost and Returns Report (CRR) version collects information on general farm finances, farm expenses and income, assets, debt, farm household expenses, off-farm income, and farm operator demographic information. The commodity-specific ARMS III Cost of Production (COP) questionnaires collect the same information as the CRR. Additionally, these versions collect information related to the amount spent for selected expense items so that entire farm costs can be allocated to the targeted crop or livestock enterprise.

In 2016, there were two COP commodities: Corn, and Dairy. The States involved for this year were:

**Corn:** Colorado, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, New York, North Carolina, North Dakota, Ohio, Pennsylvania, South Dakota, Texas, Wisconsin

**Dairy:** Arizona, California, Colorado, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Maine, Michigan, Minnesota, Missouri, New Mexico, New York, Ohio, Oregon, Pennsylvania, South Dakota, Tennessee, Texas, Utah, Virginia, Vermont, Washington, Wisconsin

## Terms and Definitions

**Agricultural chemicals:** This expense line item includes material and application costs.

**Average per farm:** The average per farm is computed by dividing the line-item total expense by the total number of farms at that level (United States, region, type, economic class, or state).

**Expense line items:** All expense line items include the operator, landlord, and contractor shares of farm production expenses.

**Farm improvements and construction:** Includes all expenditures related to new construction or repairs of buildings, fences, operator dwelling (if dwelling is owned by operation), and any improvements to physical structures of land.

**Farm services:** This is a summation of all crop custom work, veterinary custom services, transportation costs, marketing charges, insurance, leasing of machinery and equipment, utilities, general expenses, and miscellaneous business expenses.

**Farm supplies and repairs:** This expense includes bedding/litter, marketing containers, power farm-shop equipment, oils and lubricants, temporary fencing, miscellaneous non-capital equipment and supplies, repairs and maintenance of equipment not depreciated, and other small, non-capital equipment.

**Livestock, poultry, and related expenses:** This line item includes purchases and leasing of livestock and poultry. Intra-state and inter-state transfers of livestock are captured.

**Miscellaneous capital expenses:** Expenditures for depreciable capital purchases that are excluded from the defined expense categories of farm improvements and construction, trucks and autos, tractors and self-propelled equipment, and other farm machinery.

**Other fuels:** Line item includes all other forms of fuel such as natural gas, coal, fuel oil, kerosene, wood, etc., excluding diesel, gasoline, and LP gas.

**Regions:** There are 5 agricultural regions based on geographic farm typology, which you can refer to page 41 for a breakdown of regional boundaries and estimating states.

**Rent:** Rent includes cash rent paid, share rent, plus public and private grazing fees.

**Seeds and plants:** All purchases of seed, plants, or seed treatments for nursery and farming operation are included. Bedding plants, nursery stock, and seed purchased for resale are excluded.

**Taxes:** This expense is the sum of real estate taxes and personal property taxes for operator, landlord, and contractor.

## Statistical Procedures

**Survey Edit:** Data were edited using both manual and automated edit procedures. Questionnaires were reviewed for consistency, data relationships, and completeness. Past analysis has shown approximately half of all changes made by editors were for correcting data recorded in the wrong cell. In cases where respondents were unable or unwilling to report data for any item on the questionnaire, the field enumerators or survey statisticians can impute a value. For income cells, debt/asset data, and a few expense items an imputation algorithm supplied data for any marked missing values based on similar size and type of operations after all records have cleared the edit. For other expense items where no data were reported, cells were edited if appropriate by the survey statistician to a positive value based on other reported values from similar operations, previously reported data, or other administrative sources.

Macro analysis is accomplished using the Interactive Data Analysis System (IDAS). This allows analysts to compare groups of records for outliers or other unusual relationships. Adjustments to the records for keying and reporting errors are often found and corrected at this level.

Commodity Statisticians edit data along with NASS Regional Field Office (RFO) statisticians providing a ground truth understanding of the dataset. IDAS analysis starts early on a national basis before all records are entered into the database and cleaned of errors. Headquarters personnel review outliers, contract pricing, and profitability measures across records. Feedback is provided to RFO editors on specific records and general procedures as record editing progresses.

**Outliers:** Outliers are checked for accurate data and mitigated through a review process by the Agricultural Statistics Board (ASB). This mitigation is usually a reweighting to the median of the economic class by farm type. National expense outliers are treated on an individual basis and weighting actions are approved by the ASB.

**Calibration:** Since 1992, the Direct Expansion (DE) summary has been adjusted for under coverage and total number of farms. In 2003, a second calibrated summary was developed which uses a more robust methodology that adjusts weights based on an increased number of target commodities (31 in 2014). The sources for the targets are official USDA-NASS estimates. Additional targets may be added to control for commodities in the COP questionnaire versions. The sample weights are calibrated to these targets to ensure that farms of all sizes are properly represented in the survey results and that their economic activity is fully representative of the farm population.

**Estimation:** The implementation of the estimates analysis tool Analysis Comments Estimation Review (ACER) was done in 2004. Since 2005, Executive Summaries have been sent to all states electronically. ACER improvements over several years have made it possible to set and revise the 1360 estimates now contained in this publication. The ACER tools provide more administrative data, charting, and sample coverage data to the NASS analysis stats as they complete their review of the summary.

The following states are assigned large enough samples that expenditure estimates are set: Arkansas, California, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Carolina, Texas, Washington, and Wisconsin. As a final estimate step, State expenditure estimates are reviewed and commented on by the 15 Estimate States. All other states are grouped by region and an estimate is set for them. These are used by ERS to develop the value added tables (Income and Expense estimates by state).

After data are summarized, a combined NASS/ERS Board is used for Outlier treatment and confirmation of National Expenditure Estimates. This board procedure is consistent with the procedure used to set estimates for other NASS surveys. Seventeen United States level line items are set first (on rounded indication). After the Farm Production Expenditures Board formally approves the national estimates, NASS and ERS staff set estimates for line items in Regions, 15 States, type of farm, economic class, and fuel subcomponents. NASS publishes the expenditures and ERS staff set USDA estimates for income and demographic data.

**Revision Policy:** Each publication contains the current year preliminary estimates and the previous year final estimates. Farm Production Expenditure estimates are subject to revision one year after their preliminary release. Revisions are made only when additional information becomes available that changes the summarization of survey results. Additional information may become available when the calibration methodologies for production estimates are improved or revisions

occur in farm number estimates by sales class or other official estimates of commodity production. Data are not subject to revision in the five-year census cycle.

For more information concerning methodology and quality measures, see Farm Production Expenditures Methodology and Quality Measures located at [http://www.nass.usda.gov/Publications/Methodology and Data Quality/index.asp](http://www.nass.usda.gov/Publications/Methodology_and_Data_Quality/index.asp).

## Information Contacts

Listed below are the commodity statisticians in the Environmental, Economics, and Demographics Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to [nass@nass.usda.gov](mailto:nass@nass.usda.gov).

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### **Access to NASS Reports**

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- All reports are available electronically, at no cost, on the NASS web site: [www.nass.usda.gov](http://www.nass.usda.gov)
- Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit [www.nass.usda.gov](http://www.nass.usda.gov) and click on “National” or “State” in upper right corner above “search” box to create an account and select the reports you would like to receive.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: [nass@nass.usda.gov](mailto:nass@nass.usda.gov).

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