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# Farm Production Expenditures 2017 Summary

## August 2018

# USDA





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## 2017 United States Total Farm Production Expenditure Highlights

**Farm production expenditures in the United States** are estimated at \$359.8 billion for 2017, up from \$346.9 billion in 2016. The 2017 total farm production expenditures are up 3.7 percent compared with 2016 total farm production expenditures. For the 17 line items, 13 showed an increase from previous year, while the rest showed a decrease.

The four largest expenditures at the United States level total \$176.2 billion and account for 49.0 percent of total expenditures in 2017. These include feed, 15.3 percent, farm services, 12.2 percent, livestock, poultry, and related expenses, 11.7 percent, and labor, 9.8 percent.

In 2017, the United States total farm expenditure average per farm is \$176,352, up 4.3 percent from \$169,035 in 2016. On average, United States farm operations spent \$27,056 on feed, \$20,635 on livestock, poultry, and related expenses, \$21,468 on farm services, and \$17,204 on labor. For 2016, United States farms spent an average of \$27,092 on feed, \$20,319 on farm services, \$19,491 on livestock, poultry, and related expenses, and \$16,616 on labor.

Total fuel expense is \$12.0 billion. Diesel, the largest sub component, is \$7.6 billion, accounting for 63.3 percent. Diesel expenditures are up 2.7 percent from the previous year. Gasoline is \$2.2 billion, up 4.8 percent. LP gas is \$1.4 billion, up 22.4 percent. Other fuel is \$780 million, up 21.9 percent.

The United States economic sales class contributing most to the 2017 United States total expenditures is the \$1,000,000 - \$4,999,999 class, with expenses of \$114.9 billion, 31.9 percent of the United States total, up 1.7 percent from the 2016 level of \$113.0 billion. The next highest is the \$5,000,000 and over class with \$84.2 billion, up from \$80.6 billion in 2016.

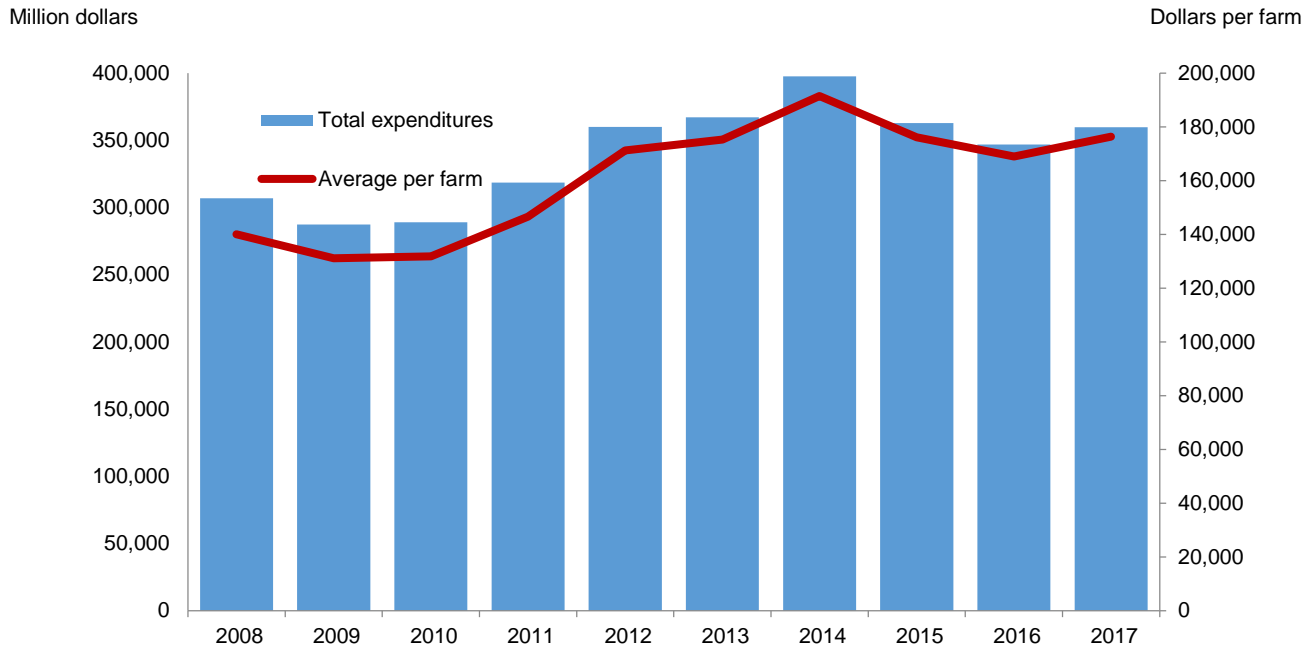
In 2017, crop farms expenditures increased to \$183.9 billion, up 3.9 percent, while livestock farms expenditures also increased to \$175.9 billion, up 3.5 percent. The largest expenditures for crop farms are labor at \$25.4 billion (13.8 percent), rent at \$24.9 billion (13.5 percent of total), and farm services at \$24.4 billion (13.3 percent). Combined crop inputs (chemicals, fertilizers, and seeds) are \$51.8 billion, accounting for 28.2 percent of crop farms total expenses. The largest expenditures for livestock farms are feed at \$53.4 billion (30.4 percent of total), livestock, poultry and related expenses at \$40.1 billion (22.8 percent), and farm services at \$19.4 billion (11.0 percent). Together, these line items account for 64.2 percent of livestock farms total expenses. The average total expenditure for a crop farm is \$210,081 compared to \$151,005 per livestock farm.

The Midwest region contributed the most to United States total expenditures with expenses of \$109.1 billion (30.3 percent), up from \$108.9 billion in 2016. Other regions, ranked by total expenditures, are the Plains at \$93.7 billion (26.0 percent), West at \$77.7 billion (21.6 percent), Atlantic at \$43.1 billion (12.0 percent), and South at \$36.2 billion (10.1 percent). The West increased \$6.34 billion from 2016, which is the largest regional increase.

Combined total expenditures for the 15 estimate states is \$238.3 billion in 2017 (66.22 percent of the United States total expenditures) and \$228.0 billion in 2016 (65.7 percent). California contributed most to the 2017 United States total expenditures, with expenses of \$37.4 billion, (10.4 percent). California expenditures are up 9.3 percent from the 2016 estimate of \$34.2 billion. Iowa, the next leading state, has \$26.4 billion in expenses, (7.3 percent). Other states with more than \$20 billion in total expenditures are Texas with \$25.9 billion and Nebraska with \$22.6 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: 2008-2017



## Farm Production Expenditures by Expenditure Category and Percent of Total – United States: 2016 and 2017

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

Expenditure	2016		2017	
	(million dollars)	(percent)	(million dollars)	(percent)
Livestock, poultry, and related expenses .....	40,000	11.5	42,100	11.7
Feed .....	55,600	16.0	55,200	15.3
Farm services .....	41,700	12.0	43,800	12.2
Rent .....	29,800	8.6	29,700	8.3
Agricultural chemicals .....	15,200	4.4	15,500	4.3
Fertilizer, lime, and soil conditioners .....	23,500	6.8	22,000	6.1
Interest .....	9,100	2.6	9,900	2.8
Taxes .....	11,900	3.4	13,000	3.6
Labor .....	34,100	9.8	35,100	9.8
Fuel .....	11,300	3.3	12,000	3.3
Farm supplies and repairs .....	17,600	5.1	18,300	5.1
Farm improvements and construction .....	14,500	4.2	16,400	4.6
Tractors and self-propelled farm machinery .....	10,600	3.1	12,600	3.5
Other farm machinery .....	5,000	1.4	5,900	1.6
Seeds and plants .....	21,800	6.3	22,200	6.2
Trucks and autos .....	4,400	1.3	5,500	1.5
Miscellaneous capital expenses .....	800	0.2	600	0.2
Total farm production expenditures .....	346,900	100.0	359,800	100.0

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – United States: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	25.7	27.7	19,491	20,635	40,000	42,100
Feed .....	57.3	56.7	27,092	27,056	55,600	55,200
Farm services .....	91.1	91.5	20,319	21,468	41,700	43,800
Rent .....	30.0	27.2	14,521	14,557	29,800	29,700
Agricultural chemicals .....	45.4	40.8	7,407	7,597	15,200	15,500
Fertilizer, lime, and soil conditioners .....	50.4	47.8	11,451	10,783	23,500	22,000
Interest .....	32.0	32.8	4,434	4,852	9,100	9,900
Taxes .....	99.5	99.6	5,799	6,372	11,900	13,000
Labor .....	25.8	24.0	16,616	17,204	34,100	35,100
Fuel .....	83.6	84.4	5,506	5,882	11,300	12,000
Farm supplies and repairs .....	80.4	81.2	8,576	8,970	17,600	18,300
Farm improvements and construction .....	48.8	49.6	7,065	8,038	14,500	16,400
Tractors and self-propelled farm machinery .....	13.0	13.3	5,165	6,176	10,600	12,600
Other farm machinery .....	15.1	15.2	2,436	2,892	5,000	5,900
Seeds and plants .....	36.3	38.5	10,623	10,881	21,800	22,200
Trucks and autos .....	11.6	13.9	2,144	2,696	4,400	5,500
Miscellaneous capital expenses .....	5.2	4.8	390	294	800	600
Total farm production expenditures .....	100.0	100.0	169,035	176,352	346,900	359,800

## Farm Production Expenditures by Year – United States: 2013-2017

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

Expenditure	2013	2014	2015	2016	2017
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	34,200	45,100	45,400	40,000	42,100
Feed .....	62,400	63,700	58,500	55,600	55,200
Farm services .....	39,000	45,300	41,600	41,700	43,800
Rent .....	31,400	32,600	31,000	29,800	29,700
Agricultural chemicals .....	14,600	15,800	14,600	15,200	15,500
Fertilizer, lime, and soil conditioners .....	28,300	28,000	25,500	23,500	22,000
Interest .....	8,700	9,700	9,500	9,100	9,900
Taxes .....	11,700	13,600	12,800	11,900	13,000
Labor .....	32,000	34,200	31,800	34,100	35,100
Fuel .....	16,400	16,700	12,300	11,300	12,000
Farm supplies and repairs .....	18,700	19,900	18,700	17,600	18,300
Farm improvements and construction .....	16,600	18,200	16,100	14,500	16,400
Tractors and self-propelled farm machinery .....	17,100	16,900	11,900	10,600	12,600
Other farm machinery .....	8,800	9,000	6,100	5,000	5,900
Seeds and plants .....	21,900	22,100	21,300	21,800	22,200
Trucks and autos .....	4,990	6,200	5,000	4,400	5,500
Miscellaneous capital expenses .....	480	600	700	800	600
Total farm production expenditures .....	367,270	397,600	362,800	346,900	359,800

## Farm Production Expenditures by Percent of Total – United States: 2013-2017

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

Expenditure	2013	2014	2015	2016	2017
	(percent)	(percent)	(percent)	(percent)	(percent)
Livestock, poultry, and related expenses .....	9.3	11.3	12.5	11.5	11.7
Feed .....	17.0	16.0	16.1	16.0	15.3
Farm services .....	10.6	11.4	11.5	12.0	12.2
Rent .....	8.5	8.2	8.5	8.6	8.3
Agricultural chemicals .....	4.0	4.0	4.0	4.4	4.3
Fertilizer, lime, and soil conditioners .....	7.7	7.0	7.0	6.8	6.1
Interest .....	2.4	2.4	2.6	2.6	2.8
Taxes .....	3.2	3.4	3.5	3.4	3.6
Labor .....	8.7	8.6	8.8	9.8	9.8
Fuel .....	4.5	4.2	3.4	3.3	3.3
Farm supplies and repairs .....	5.1	5.0	5.2	5.1	5.1
Farm improvements and construction .....	4.5	4.6	4.4	4.2	4.6
Tractors and self-propelled farm machinery .....	4.7	4.3	3.3	3.1	3.5
Other farm machinery .....	2.4	2.3	1.7	1.4	1.6
Seeds and plants .....	6.0	5.6	5.9	6.3	6.2
Trucks and autos .....	1.4	1.6	1.4	1.3	1.5
Miscellaneous capital expenses .....	0.1	0.2	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: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	9.2	11.3	2,018	2,285	1,900	2,000
Feed .....	21.8	19.5	1,593	2,056	1,500	1,800
Farm services .....	87.6	89.9	24,316	27,874	22,900	24,400
Rent .....	32.4	33.2	26,334	28,445	24,800	24,900
Agricultural chemicals .....	54.4	56.0	14,494	15,765	13,650	13,800
Fertilizer, lime, and soil conditioners .....	59.3	60.6	21,025	21,134	19,800	18,500
Interest .....	32.7	36.0	5,033	6,283	4,740	5,500
Taxes .....	99.6	99.9	7,858	9,139	7,400	8,000
Labor .....	27.4	27.5	26,122	29,016	24,600	25,400
Fuel .....	78.8	82.8	7,539	8,511	7,100	7,450
Farm supplies and repairs .....	75.5	78.9	11,149	12,452	10,500	10,900
Farm improvements and construction .....	44.8	45.9	7,114	8,111	6,700	7,100
Tractors and self-propelled farm machinery .....	12.9	14.1	6,902	9,139	6,500	8,000
Other farm machinery .....	15.5	17.3	3,398	4,227	3,200	3,700
Seeds and plants .....	50.7	56.5	20,494	22,276	19,300	19,500
Trucks and autos .....	11.6	13.7	2,177	3,096	2,050	2,710
Miscellaneous capital expenses .....	4.7	4.4	382	274	360	240
Total farm production expenditures .....	100.0	100.0	187,948	210,081	177,000	183,900

## Livestock Farms Production Expenditures by Farms Reporting, Average per Farm, and Total – United States: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	39.6	40.0	34,309	34,425	38,100	40,100
Feed .....	87.4	84.7	48,717	45,842	54,100	53,400
Farm services .....	94.1	92.6	16,929	16,654	18,800	19,400
Rent .....	28.0	22.7	4,503	4,121	5,000	4,800
Agricultural chemicals .....	37.7	29.4	1,396	1,459	1,550	1,700
Fertilizer, lime, and soil conditioners .....	42.9	38.2	3,332	3,005	3,700	3,500
Interest .....	31.4	30.4	3,926	3,777	4,360	4,400
Taxes .....	99.3	99.3	4,052	4,292	4,500	5,000
Labor .....	24.4	21.3	8,555	8,327	9,500	9,700
Fuel .....	87.6	85.5	3,782	3,906	4,200	4,550
Farm supplies and repairs .....	84.6	82.9	6,394	6,353	7,100	7,400
Farm improvements and construction .....	52.3	52.4	7,024	7,984	7,800	9,300
Tractors and self-propelled farm machinery .....	13.1	12.7	3,692	3,949	4,100	4,600
Other farm machinery .....	14.8	13.6	1,621	1,889	1,800	2,200
Seeds and plants .....	24.2	24.9	2,251	2,318	2,500	2,700
Trucks and autos .....	11.6	14.1	2,116	2,395	2,350	2,790
Miscellaneous capital expenses .....	5.7	5.0	396	309	440	360
Total farm production expenditures .....	100.0	100.0	152,995	151,005	169,900	175,900

**Farm Production Expenditures, Economic Class Gross Sales, by Percent of Total, Average per Farm, and Total – United States: 2016 and 2017**

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

Economic Class	Percent of total		Average per farm		Total expenditures	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Less than \$10,000 .....	4.1	4.5	13,746	16,005	14,120	16,290
\$10,000 - \$49,999 .....	4.6	4.7	35,726	37,579	16,120	16,780
\$50,000 - \$99,999 .....	4.1	4.3	85,587	92,077	14,270	15,550
\$100,000 - \$249,999 .....	6.8	6.9	162,482	171,020	23,490	24,750
\$250,000 - \$499,999 .....	9.6	9.6	339,800	353,007	33,280	34,450
\$500,000 - \$999,999 .....	15.0	14.7	635,288	643,614	52,100	52,860
\$1,000,000 - \$4,999,999 .....	32.6	31.9	1,528,687	1,557,106	112,970	114,930
\$5,000,000 and over .....	23.2	23.4	9,258,621	9,567,045	80,550	84,190
Total farm production expenditures .....	100.0	100.0	169,035	176,352	346,900	359,800

**Farm Production Expenditures, Economic Class Gross Sales of Less than \$10,000 by Farms Reporting, Average per Farm, and Total – United States: 2016 and 2017**

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	17.9	21.2	516	472	530	480
Feed .....	57.5	57.9	1,285	1,572	1,320	1,600
Farm services .....	85.0	85.1	2,015	2,132	2,070	2,170
Rent .....	11.3	7.4	243	177	250	180
Agricultural chemicals .....	23.5	18.8	97	108	100	110
Fertilizer, lime, and soil conditioners .....	29.7	27.0	350	334	360	340
Interest .....	16.8	18.7	711	855	730	870
Taxes .....	99.2	99.3	1,898	2,211	1,950	2,250
Labor .....	12.4	10.8	389	481	400	490
Fuel .....	73.6	74.8	652	648	670	660
Farm supplies and repairs .....	69.2	70.5	974	1,199	1,000	1,220
Farm improvements and construction .....	36.6	38.7	1,947	2,555	2,000	2,600
Tractors and self-propelled farm machinery .....	9.0	8.4	1,178	1,405	1,210	1,430
Other farm machinery .....	8.4	7.7	273	442	280	450
Seeds and plants .....	15.5	16.9	146	187	150	190
Trucks and autos .....	7.5	8.7	837	1,081	860	1,100
Miscellaneous capital expenses .....	3.9	2.9	234	147	240	150
Total farm production expenditures .....	100.0	100.0	13,746	16,005	14,120	16,290

## Farm Production Expenditures, Economic Class Gross Sales of \$10,000-\$49,999 by Farms Reporting, Average per Farm, and Total – United States: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	28.5	28.7	1,839	1,792	830	800
Feed .....	62.1	59.0	3,103	2,956	1,400	1,320
Farm services .....	94.2	95.3	5,363	5,330	2,420	2,380
Rent .....	26.5	24.3	1,285	1,411	580	630
Agricultural chemicals .....	48.2	42.0	731	694	330	310
Fertilizer, lime, and soil conditioners .....	58.2	51.7	1,906	1,769	860	790
Interest .....	29.1	27.5	1,529	1,568	690	700
Taxes .....	99.5	99.6	3,302	3,471	1,490	1,550
Labor .....	24.7	21.4	1,773	1,680	800	750
Fuel .....	88.6	89.2	1,817	1,881	820	840
Farm supplies and repairs .....	85.4	85.8	2,837	2,956	1,280	1,320
Farm improvements and construction .....	51.3	52.6	3,546	3,807	1,600	1,700
Tractors and self-propelled farm machinery .....	13.2	15.4	2,615	3,359	1,180	1,500
Other farm machinery .....	14.1	14.4	997	1,120	450	500
Seeds and plants .....	35.3	39.4	1,130	1,232	510	550
Trucks and autos .....	10.5	14.2	1,574	2,239	710	1,000
Miscellaneous capital expenses .....	5.3	5.3	377	314	170	140
Total farm production expenditures .....	100.0	100.0	35,726	37,579	16,120	16,780

## Farm Production Expenditures, Economic Class Gross Sales of \$50,000-\$99,999 by Farms Reporting, Average per Farm, and Total – United States: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	33.6	32.9	4,918	5,211	820	880
Feed .....	59.5	56.6	6,478	5,921	1,080	1,000
Farm services .....	99.3	99.4	11,995	13,619	2,000	2,300
Rent .....	51.2	48.8	6,118	5,625	1,020	950
Agricultural chemicals .....	71.8	67.7	2,939	3,553	490	600
Fertilizer, lime, and soil conditioners .....	72.8	74.7	6,597	6,395	1,100	1,080
Interest .....	43.5	45.2	3,359	3,375	560	570
Taxes .....	99.8	100.0	5,518	6,217	920	1,050
Labor .....	36.2	33.2	4,498	4,796	750	810
Fuel .....	94.6	95.2	4,078	4,619	680	780
Farm supplies and repairs .....	93.7	94.0	6,118	7,402	1,020	1,250
Farm improvements and construction .....	61.9	58.8	7,797	7,224	1,300	1,220
Tractors and self-propelled farm machinery .....	14.6	14.9	4,918	5,329	820	900
Other farm machinery .....	20.9	22.4	1,979	2,842	330	480
Seeds and plants .....	59.3	64.5	4,978	5,625	830	950
Trucks and autos .....	15.1	21.0	2,939	3,908	490	660
Miscellaneous capital expenses .....	5.8	6.5	360	414	60	70
Total farm production expenditures .....	100.0	100.0	85,587	92,077	14,270	15,550

**Farm Production Expenditures, Economic Class Gross Sales of \$100,000-\$249,999 by Farms Reporting, Average per Farm, and Total – United States: 2016 and 2017**

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	31.3	34.3	7,885	8,845	1,140	1,280
Feed .....	50.7	50.2	11,621	11,401	1,680	1,650
Farm services .....	99.8	99.8	22,480	24,185	3,250	3,500
Rent .....	67.1	60.7	16,186	15,616	2,340	2,260
Agricultural chemicals .....	81.3	78.2	8,992	9,190	1,300	1,330
Fertilizer, lime, and soil conditioners .....	84.2	83.2	15,494	14,787	2,240	2,140
Interest .....	58.0	55.4	5,880	5,735	850	830
Taxes .....	100.0	100.0	8,093	9,605	1,170	1,390
Labor .....	39.6	39.7	10,376	11,747	1,500	1,700
Fuel .....	97.5	97.1	6,986	8,085	1,010	1,170
Farm supplies and repairs .....	97.1	95.8	10,929	12,438	1,580	1,800
Farm improvements and construction .....	65.7	62.2	7,816	9,190	1,130	1,330
Tractors and self-propelled farm machinery .....	17.1	16.1	8,370	7,946	1,210	1,150
Other farm machinery .....	22.7	24.8	3,735	4,146	540	600
Seeds and plants .....	74.9	77.0	13,834	13,889	2,000	2,010
Trucks and autos .....	16.0	18.6	3,251	3,800	470	550
Miscellaneous capital expenses .....	6.7	7.7	553	415	80	60
Total farm production expenditures .....	100.0	100.0	162,482	171,020	23,490	24,750

**Farm Production Expenditures, Economic Class Gross Sales of \$250,000-\$499,999 by Farms Reporting, Average per Farm, and Total – United States: 2016 and 2017**

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	38.2	37.7	21,748	17,215	2,130	1,680
Feed .....	47.9	50.3	26,241	29,204	2,570	2,850
Farm services .....	99.5	100.0	43,598	45,599	4,270	4,450
Rent .....	75.9	77.8	41,658	42,832	4,080	4,180
Agricultural chemicals .....	90.6	88.6	20,216	21,519	1,980	2,100
Fertilizer, lime, and soil conditioners .....	88.5	89.2	33,184	31,561	3,250	3,080
Interest .....	71.4	68.6	11,333	11,579	1,110	1,130
Taxes .....	99.9	100.0	14,294	15,883	1,400	1,550
Labor .....	51.9	54.9	24,505	23,056	2,400	2,250
Fuel .....	99.0	99.6	13,273	14,346	1,300	1,400
Farm supplies and repairs .....	98.1	98.5	21,442	21,826	2,100	2,130
Farm improvements and construction .....	68.6	71.1	13,784	13,526	1,350	1,320
Tractors and self-propelled farm machinery .....	20.1	25.1	12,763	18,649	1,250	1,820
Other farm machinery .....	30.9	35.8	6,943	8,710	680	850
Seeds and plants .....	85.2	84.8	29,610	31,766	2,900	3,100
Trucks and autos .....	21.6	23.4	4,595	5,226	450	510
Miscellaneous capital expenses .....	8.7	6.8	613	512	60	50
Total farm production expenditures .....	100.0	100.0	339,800	353,007	33,280	34,450

## Farm Production Expenditures, Economic Class Gross Sales of \$500,000-\$999,999 by Farms Reporting, Average per Farm, and Total – United States: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	39.5	40.0	49,994	44,807	4,100	3,680
Feed .....	46.6	46.3	62,797	54,548	5,150	4,480
Farm services .....	100.0	100.0	73,650	75,490	6,040	6,200
Rent .....	78.4	78.3	82,917	85,231	6,800	7,000
Agricultural chemicals .....	89.7	87.3	41,093	38,963	3,370	3,200
Fertilizer, lime, and soil conditioners .....	87.4	88.2	60,968	58,444	5,000	4,800
Interest .....	75.3	79.2	18,047	20,577	1,480	1,690
Taxes .....	100.0	100.0	20,119	23,743	1,650	1,950
Labor .....	65.5	64.2	46,945	48,703	3,850	4,000
Fuel .....	99.6	98.3	22,924	24,352	1,880	2,000
Farm supplies and repairs .....	97.7	98.8	35,605	36,527	2,920	3,000
Farm improvements and construction .....	75.7	72.7	22,558	25,934	1,850	2,130
Tractors and self-propelled farm machinery .....	28.9	23.5	21,705	24,595	1,780	2,020
Other farm machinery .....	35.1	34.4	10,974	13,759	900	1,130
Seeds and plants .....	85.1	84.6	58,042	59,053	4,760	4,850
Trucks and autos .....	24.6	26.1	6,097	8,280	500	680
Miscellaneous capital expenses .....	8.9	8.9	854	609	70	50
Total farm production expenditures .....	100.0	100.0	635,288	643,614	52,100	52,860

## Farm Production Expenditures, Economic Class Gross Sales of \$1,000,000-\$4,999,999 by Farms Reporting, Average per Farm, and Total – United States: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	52.5	56.1	165,765	186,967	12,250	13,800
Feed .....	56.8	58.3	297,023	299,417	21,950	22,100
Farm services .....	100.0	100.0	179,296	185,612	13,250	13,700
Rent .....	73.3	72.4	154,939	150,386	11,450	11,100
Agricultural chemicals .....	88.4	82.9	75,237	75,870	5,560	5,600
Fertilizer, lime, and soil conditioners .....	79.7	78.3	108,931	98,225	8,050	7,250
Interest .....	78.0	80.6	34,641	38,206	2,560	2,820
Taxes .....	100.0	99.9	33,559	33,193	2,480	2,450
Labor .....	80.8	75.7	155,616	151,741	11,500	11,200
Fuel .....	99.7	99.6	45,196	47,419	3,340	3,500
Farm supplies and repairs .....	99.1	99.1	66,982	65,032	4,950	4,800
Farm improvements and construction .....	80.9	78.0	41,678	50,129	3,080	3,700
Tractors and self-propelled farm machinery .....	25.8	29.0	33,153	42,000	2,450	3,100
Other farm machinery .....	39.8	37.2	19,621	19,510	1,450	1,440
Seeds and plants .....	80.1	77.0	106,225	102,290	7,850	7,550
Trucks and autos .....	27.3	29.9	9,743	10,161	720	750
Miscellaneous capital expenses .....	9.8	9.0	1,083	948	80	70
Total farm production expenditures .....	100.0	100.0	1,528,687	1,557,106	112,970	114,930

## Farm Production Expenditures, Economic Class Gross Sales of \$5,000,000 and Over by Farms Reporting, Average per Farm, and Total – United States: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	57.7	60.0	2,091,954	2,215,909	18,200	19,500
Feed .....	64.7	66.1	2,350,575	2,295,455	20,450	20,200
Farm services .....	100.0	100.0	965,517	1,034,091	8,400	9,100
Rent .....	66.2	67.2	377,011	386,364	3,280	3,400
Agricultural chemicals .....	87.6	84.1	237,931	255,682	2,070	2,250
Fertilizer, lime, and soil conditioners .....	81.9	79.8	303,448	286,364	2,640	2,520
Interest .....	84.2	83.3	128,736	146,591	1,120	1,290
Taxes .....	100.0	100.0	96,552	92,045	840	810
Labor .....	94.5	90.1	1,482,759	1,579,545	12,900	13,900
Fuel .....	99.9	99.1	183,908	187,500	1,600	1,650
Farm supplies and repairs .....	99.4	99.1	316,092	315,909	2,750	2,780
Farm improvements and construction .....	89.5	86.3	251,724	272,727	2,190	2,400
Tractors and self-propelled farm machinery .....	41.0	40.6	80,460	77,273	700	680
Other farm machinery .....	45.6	34.0	42,529	51,136	370	450
Seeds and plants .....	83.4	78.6	321,839	340,909	2,800	3,000
Trucks and autos .....	42.0	41.5	22,989	28,409	200	250
Miscellaneous capital expenses .....	12.8	10.4	4,598	1,136	40	10
Total farm production expenditures .....	100.0	100.0	9,258,621	9,567,045	80,550	84,190

## Fuel Production Expenditure Sub-Components by Type of Farm, Economic Class, and Region – United States: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017	2016	2017	2016	2017
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Crop farms .....	7,100	7,450	4,900	5,000	1,200	1,220	540	710	460	520
Livestock farms .....	4,200	4,550	2,500	2,600	900	980	620	710	180	260

Economic class	Fuel Production Expenditure									
	Total		Diesel		Gasoline		LP gas		Other fuel	
	2016	2017	2016	2017	2016	2017	2016	2017	2016	2017
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Less than \$10,000 .....	670	660	390	350	220	240	40	50	20	20
\$10,000 - \$49,999 .....	820	840	510	530	250	230	40	60	20	20
\$50,000 - \$99,999 .....	680	780	440	500	180	190	50	70	10	20
\$100,000 - \$249,999 .....	1,010	1,170	680	740	210	270	80	110	40	50
\$250,000 - \$499,999 .....	1,300	1,400	900	930	240	250	110	140	50	80
\$500,000 - \$999,999 .....	1,880	2,000	1,300	1,360	290	320	190	230	100	90
\$1,000,000 - \$4,999,999 .....	3,340	3,500	2,130	2,200	470	480	500	590	240	230
\$5,000,000 and over .....	1,600	1,650	1,050	990	240	220	150	170	160	270

Region	Fuel Production Expenditure									
	Total		Diesel		Gasoline		LP gas		Other fuel	
	2016	2017	2016	2017	2016	2017	2016	2017	2016	2017
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Atlantic .....	1,390	1,590	830	890	290	310	170	250	100	140
South .....	1,480	1,460	940	930	270	260	200	200	70	70
Midwest .....	3,220	3,500	2,100	2,200	470	510	520	640	130	150
Plains .....	2,770	3,020	1,860	1,980	530	580	150	180	230	280
West .....	2,440	2,430	1,670	1,600	540	540	120	150	110	140
United States .....	11,300	12,000	7,400	7,600	2,100	2,200	1,160	1,420	640	780

## Farm Production Expenditures – Region, State, and United States: 2016 and 2017

[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			
	2016	2017	2016	2017	2016	2017
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent of total)	(percent of total)
<b>Atlantic</b>						
North Carolina .....	10,340	11,140	1,930	2,360	18.7	21.2
Other States .....	31,770	31,990	1,850	1,840	5.8	5.8
Total .....	42,110	43,130	3,780	4,200	9.0	9.7
<b>South</b>						
Arkansas .....	8,105	8,190	750	810	9.3	9.9
Florida .....	5,900	6,135	120	90	2.0	1.5
Georgia .....	7,120	7,090	840	950	11.8	13.4
Other States .....	14,395	14,815	1,480	1,330	10.3	9.0
Total .....	35,520	36,230	3,190	3,180	9.0	8.8
<b>Midwest</b>						
Illinois .....	15,815	16,760	640	730	4.0	4.4
Indiana .....	10,235	10,285	630	620	6.2	6.0
Iowa .....	26,345	26,400	3,780	4,310	14.3	16.3
Minnesota .....	17,205	16,690	1,520	1,480	8.8	8.9
Missouri .....	10,375	10,480	1,190	1,130	11.5	10.8
Wisconsin .....	10,910	11,555	460	510	4.2	4.4
Other States .....	17,965	16,900	970	1,070	5.4	6.3
Total .....	108,850	109,070	9,190	9,850	8.4	9.0
<b>Plains</b>						
Kansas .....	17,700	19,205	6,000	6,680	33.9	34.8
Nebraska .....	21,720	22,575	6,170	6,370	28.4	28.2
Texas .....	23,900	25,890	5,670	5,410	23.7	20.9
Other States .....	25,730	25,990	3,050	3,000	11.9	11.5
Total .....	89,050	93,660	20,890	21,460	23.5	22.9
<b>West</b>						
California .....	34,200	37,380	740	750	2.2	2.0
Washington .....	8,105	8,500	100	530	1.2	6.2
Other States .....	29,065	31,830	2,110	2,130	7.3	6.7
Total .....	71,370	77,710	2,950	3,410	4.1	4.4
<b>United States .....</b>	<b>346,900</b>	<b>359,800</b>	<b>40,000</b>	<b>42,100</b>	<b>11.5</b>	<b>11.7</b>

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## Farm Production Expenditures – Region, State, and United States: 2016 and 2017 (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			
	2016	2017	2016	2017	2016	2017	2016	2017
	(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 .....	3,440	3,520	33.3	31.6	1,010	980	9.8	8.8
Other States .....	5,990	6,010	18.9	18.8	4,090	4,040	12.9	12.6
Total .....	9,430	9,530	22.4	22.1	5,100	5,020	12.1	11.6
<b>South</b>								
Arkansas .....	2,080	2,160	25.7	26.4	850	960	10.5	11.7
Florida .....	440	500	7.5	8.1	760	860	12.9	14.0
Georgia .....	2,180	2,120	30.6	29.9	840	740	11.8	10.4
Other States .....	3,920	3,790	27.2	25.6	1,750	1,850	12.2	12.5
Total .....	8,620	8,570	24.3	23.7	4,200	4,410	11.8	12.2
<b>Midwest</b>								
Illinois .....	930	1,060	5.9	6.3	1,560	1,570	9.9	9.4
Indiana .....	1,450	1,180	14.2	11.5	1,060	1,080	10.4	10.5
Iowa .....	5,210	4,400	19.8	16.7	2,610	2,670	9.9	10.1
Minnesota .....	2,700	2,400	15.7	14.4	1,920	2,010	11.2	12.0
Missouri .....	1,600	1,750	15.4	16.7	1,100	1,050	10.6	10.0
Wisconsin .....	1,950	1,890	17.9	16.4	1,550	1,630	14.2	14.1
Other States .....	2,860	2,520	15.9	14.9	2,100	2,140	11.7	12.7
Total .....	16,700	15,200	15.3	13.9	11,900	12,150	10.9	11.1
<b>Plains</b>								
Kansas .....	2,500	2,700	14.1	14.1	1,420	1,400	8.0	7.3
Nebraska .....	2,470	2,830	11.4	12.5	1,980	2,020	9.1	8.9
Texas .....	4,560	4,400	19.1	17.0	2,750	3,120	11.5	12.1
Other States .....	1,870	2,100	7.3	8.1	3,100	2,950	12.0	11.4
Total .....	11,400	12,030	12.8	12.8	9,250	9,490	10.4	10.1
<b>West</b>								
California .....	3,930	3,550	11.5	9.5	5,750	6,650	16.8	17.8
Washington .....	830	1,150	10.2	13.5	1,420	1,330	17.5	15.6
Other States .....	4,690	5,170	16.1	16.2	4,080	4,750	14.0	14.9
Total .....	9,450	9,870	13.2	12.7	11,250	12,730	15.8	16.4
<b>United States .....</b>	<b>55,600</b>	<b>55,200</b>	<b>16.0</b>	<b>15.3</b>	<b>41,700</b>	<b>43,800</b>	<b>12.0</b>	<b>12.2</b>

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## Farm Production Expenditures – Region, State, and United States: 2016 and 2017 (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			
	2016	2017	2016	2017	2016	2017	2016	2017
	(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 .....	260	270	2.5	2.4	300	310	2.9	2.8
Other States .....	1,480	1,340	4.7	4.2	860	830	2.7	2.6
Total .....	1,740	1,610	4.1	3.7	1,160	1,140	2.8	2.6
<b>South</b>								
Arkansas .....	700	720	8.6	8.8	450	440	5.6	5.4
Florida .....	120	140	2.0	2.3	420	410	7.1	6.7
Georgia .....	200	210	2.8	3.0	340	330	4.8	4.7
Other States .....	780	790	5.4	5.3	750	740	5.2	5.0
Total .....	1,800	1,860	5.1	5.1	1,960	1,920	5.5	5.3
<b>Midwest</b>								
Illinois .....	3,570	3,560	22.6	21.2	1,130	1,120	7.1	6.7
Indiana .....	1,580	1,490	15.4	14.5	560	550	5.5	5.3
Iowa .....	3,570	3,640	13.6	13.8	1,130	1,120	4.3	4.2
Minnesota .....	2,120	1,850	12.3	11.1	710	790	4.1	4.7
Missouri .....	990	1,000	9.5	9.5	510	570	4.9	5.4
Wisconsin .....	590	600	5.4	5.2	330	360	3.0	3.1
Other States .....	1,330	1,300	7.4	7.7	720	740	4.0	4.4
Total .....	13,750	13,440	12.6	12.3	5,090	5,250	4.7	4.8
<b>Plains</b>								
Kansas .....	1,540	1,450	8.7	7.6	770	790	4.4	4.1
Nebraska .....	2,560	2,430	11.8	10.8	790	830	3.6	3.7
Texas .....	1,040	1,130	4.4	4.4	600	700	2.5	2.7
Other States .....	3,070	3,140	11.9	12.1	1,510	1,500	5.9	5.8
Total .....	8,210	8,150	9.2	8.7	3,670	3,820	4.1	4.1
<b>West</b>								
California .....	1,890	2,100	5.5	5.6	1,840	1,830	5.4	4.9
Washington .....	580	550	7.2	6.5	440	470	5.4	5.5
Other States .....	1,830	1,990	6.3	6.3	1,040	1,070	3.6	3.4
Total .....	4,300	4,640	6.0	6.0	3,320	3,370	4.7	4.3
<b>United States .....</b>	<b>29,800</b>	<b>29,700</b>	<b>8.6</b>	<b>8.3</b>	<b>15,200</b>	<b>15,500</b>	<b>4.4</b>	<b>4.3</b>

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## Farm Production Expenditures – Region, State, and United States: 2016 and 2017 (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			
	2016 (million dollars)	2017 (million dollars)	2016 (percent of total)	2017 (percent of total)	2016 (million dollars)	2017 (million dollars)	2016 (percent of total)	2017 (percent of total)
<b>Atlantic</b>								
North Carolina .....	420	440	4.1	3.9	150	160	1.5	1.4
Other States .....	1,770	1,580	5.6	4.9	800	900	2.5	2.8
Total .....	2,190	2,020	5.2	4.7	950	1,060	2.3	2.5
<b>South</b>								
Arkansas .....	500	440	6.2	5.4	180	200	2.2	2.4
Florida .....	490	470	8.3	7.7	90	130	1.5	2.1
Georgia .....	420	360	5.9	5.1	120	140	1.7	2.0
Other States .....	830	780	5.8	5.3	300	310	2.1	2.1
Total .....	2,240	2,050	6.3	5.7	690	780	1.9	2.2
<b>Midwest</b>								
Illinois .....	1,870	1,740	11.8	10.4	420	460	2.7	2.7
Indiana .....	1,060	970	10.4	9.4	320	360	3.1	3.5
Iowa .....	1,880	1,810	7.1	6.9	750	840	2.8	3.2
Minnesota .....	1,440	1,340	8.4	8.0	580	620	3.4	3.7
Missouri .....	790	840	7.6	8.0	390	330	3.8	3.1
Wisconsin .....	710	720	6.5	6.2	420	470	3.8	4.1
Other States .....	1,340	1,160	7.5	6.9	540	530	3.0	3.1
Total .....	9,090	8,580	8.4	7.9	3,420	3,610	3.1	3.3
<b>Plains</b>								
Kansas .....	980	970	5.5	5.1	350	410	2.0	2.1
Nebraska .....	1,360	1,270	6.3	5.6	560	550	2.6	2.4
Texas .....	910	1,030	3.8	4.0	420	410	1.8	1.6
Other States .....	2,480	2,080	9.6	8.0	940	1,040	3.7	4.0
Total .....	5,730	5,350	6.4	5.7	2,270	2,410	2.5	2.6
<b>West</b>								
California .....	2,150	1,860	6.3	5.0	610	920	1.8	2.5
Washington .....	500	410	6.2	4.8	200	170	2.5	2.0
Other States .....	1,600	1,730	5.5	5.4	960	950	3.3	3.0
Total .....	4,250	4,000	6.0	5.1	1,770	2,040	2.5	2.6
<b>United States .....</b>	<b>23,500</b>	<b>22,000</b>	<b>6.8</b>	<b>6.1</b>	<b>9,100</b>	<b>9,900</b>	<b>2.6</b>	<b>2.8</b>

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## Farm Production Expenditures – Region, State, and United States: 2016 and 2017 (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			
	2016	2017	2016	2017	2016	2017	2016	2017
	(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	230	2.0	2.1	840	890	8.1	8.0
Other States .....	1,390	1,490	4.4	4.7	3,720	3,460	11.7	10.8
Total .....	1,600	1,720	3.8	4.0	4,560	4,350	10.8	10.1
<b>South</b>								
Arkansas .....	180	170	2.2	2.1	360	330	4.4	4.0
Florida .....	200	180	3.4	2.9	1,770	1,710	30.0	27.9
Georgia .....	160	170	2.2	2.4	520	530	7.3	7.5
Other States .....	340	350	2.4	2.4	750	760	5.2	5.1
Total .....	880	870	2.5	2.4	3,400	3,330	9.6	9.2
<b>Midwest</b>								
Illinois .....	460	520	2.9	3.1	590	550	3.7	3.3
Indiana .....	410	440	4.0	4.3	450	440	4.4	4.3
Iowa .....	840	830	3.2	3.1	760	900	2.9	3.4
Minnesota .....	670	640	3.9	3.8	750	730	4.4	4.4
Missouri .....	260	280	2.5	2.7	390	370	3.8	3.5
Wisconsin .....	380	410	3.5	3.5	1,070	1,030	9.8	8.9
Other States .....	770	830	4.3	4.9	1,880	1,250	10.5	7.4
Total .....	3,790	3,950	3.5	3.6	5,890	5,270	5.4	4.8
<b>Plains</b>								
Kansas .....	560	630	3.2	3.3	650	610	3.7	3.2
Nebraska .....	1,110	1,320	5.1	5.8	700	720	3.2	3.2
Texas .....	940	1,040	3.9	4.0	1,840	2,020	7.7	7.8
Other States .....	870	1,200	3.4	4.6	810	800	3.1	3.1
Total .....	3,480	4,190	3.9	4.5	4,000	4,150	4.5	4.4
<b>West</b>								
California .....	1,020	1,180	3.0	3.2	9,880	11,360	28.9	30.4
Washington .....	240	210	3.0	2.5	2,070	2,040	25.5	24.0
Other States .....	890	880	3.1	2.8	4,300	4,600	14.8	14.5
Total .....	2,150	2,270	3.0	2.9	16,250	18,000	22.8	23.2
<b>United States .....</b>	<b>11,900</b>	<b>13,000</b>	<b>3.4</b>	<b>3.6</b>	<b>34,100</b>	<b>35,100</b>	<b>9.8</b>	<b>9.8</b>

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## Farm Production Expenditures – Region, State, and United States: 2016 and 2017 (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			
	2016 (million dollars)	2017 (million dollars)	2016 (percent of total)	2017 (percent of total)	2016 (million dollars)	2017 (million dollars)	2016 (percent of total)	2017 (percent of total)
<b>Atlantic</b>								
North Carolina .....	290	330	2.8	3.0	370	400	3.6	3.6
Other States .....	1,100	1,260	3.5	3.9	2,180	2,220	6.9	6.9
<b>Total .....</b>	<b>1,390</b>	<b>1,590</b>	<b>3.3</b>	<b>3.7</b>	<b>2,550</b>	<b>2,620</b>	<b>6.1</b>	<b>6.1</b>
<b>South</b>								
Arkansas .....	400	380	4.9	4.6	360	320	4.4	3.9
Florida .....	230	210	3.9	3.4	330	360	5.6	5.9
Georgia .....	250	230	3.5	3.2	260	290	3.7	4.1
Other States .....	600	640	4.2	4.3	680	670	4.7	4.5
<b>Total .....</b>	<b>1,480</b>	<b>1,460</b>	<b>4.2</b>	<b>4.0</b>	<b>1,630</b>	<b>1,640</b>	<b>4.6</b>	<b>4.5</b>
<b>Midwest</b>								
Illinois .....	480	520	3.0	3.1	700	740	4.4	4.4
Indiana .....	300	360	2.9	3.5	460	520	4.5	5.1
Iowa .....	660	640	2.5	2.4	1,040	980	3.9	3.7
Minnesota .....	530	620	3.1	3.7	920	910	5.3	5.5
Missouri .....	340	390	3.3	3.7	520	530	5.0	5.1
Wisconsin .....	330	380	3.0	3.3	840	830	7.7	7.2
Other States .....	580	590	3.2	3.5	1,080	1,030	6.0	6.1
<b>Total .....</b>	<b>3,220</b>	<b>3,500</b>	<b>3.0</b>	<b>3.2</b>	<b>5,560</b>	<b>5,540</b>	<b>5.1</b>	<b>5.1</b>
<b>Plains</b>								
Kansas .....	450	540	2.5	2.8	630	720	3.6	3.7
Nebraska .....	550	570	2.5	2.5	850	870	3.9	3.9
Texas .....	790	900	3.3	3.5	930	1,080	3.9	4.2
Other States .....	980	1,010	3.8	3.9	1,360	1,430	5.3	5.5
<b>Total .....</b>	<b>2,770</b>	<b>3,020</b>	<b>3.1</b>	<b>3.2</b>	<b>3,770</b>	<b>4,100</b>	<b>4.2</b>	<b>4.4</b>
<b>West</b>								
California .....	1,120	1,000	3.3	2.7	1,580	1,840	4.6	4.9
Washington .....	230	190	2.8	2.2	520	440	6.4	5.2
Other States .....	1,090	1,240	3.8	3.9	1,990	2,120	6.8	6.7
<b>Total .....</b>	<b>2,440</b>	<b>2,430</b>	<b>3.4</b>	<b>3.1</b>	<b>4,090</b>	<b>4,400</b>	<b>5.7</b>	<b>5.7</b>
<b>United States .....</b>	<b>11,300</b>	<b>12,000</b>	<b>3.3</b>	<b>3.3</b>	<b>17,600</b>	<b>18,300</b>	<b>5.1</b>	<b>5.1</b>

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## Farm Production Expenditures – Region, State, and United States: 2016 and 2017 (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			
	2016 (million dollars)	2017 (million dollars)	2016 (percent of total)	2017 (percent of total)	2016 (million dollars)	2017 (million dollars)	2016 (percent of total)	2017 (percent of total)
<b>Atlantic</b>								
North Carolina .....	300	350	2.9	3.1	230	270	2.2	2.4
Other States .....	2,140	2,430	6.7	7.6	1,280	1,250	4.0	3.9
Total .....	2,440	2,780	5.8	6.4	1,510	1,520	3.6	3.5
<b>South</b>								
Arkansas .....	270	170	3.3	2.1	280	320	3.5	3.9
Florida .....	220	270	3.7	4.4	110	130	1.9	2.1
Georgia .....	200	220	2.8	3.1	270	290	3.8	4.1
Other States .....	570	750	4.0	5.1	470	750	3.3	5.1
Total .....	1,260	1,410	3.5	3.9	1,130	1,490	3.2	4.1
<b>Midwest</b>								
Illinois .....	430	640	2.7	3.8	640	860	4.0	5.1
Indiana .....	360	510	3.5	5.0	320	430	3.1	4.2
Iowa .....	890	900	3.4	3.4	620	610	2.4	2.3
Minnesota .....	740	700	4.3	4.2	510	550	3.0	3.3
Missouri .....	520	490	5.0	4.7	570	540	5.5	5.2
Wisconsin .....	910	1,020	8.3	8.8	360	460	3.3	4.0
Other States .....	890	1,000	5.0	5.9	530	630	3.0	3.7
Total .....	4,740	5,260	4.4	4.8	3,550	4,080	3.3	3.7
<b>Plains</b>								
Kansas .....	360	480	2.0	2.5	400	530	2.3	2.8
Nebraska .....	430	580	2.0	2.6	430	530	2.0	2.3
Texas .....	840	1,290	3.5	5.0	920	1,370	3.8	5.3
Other States .....	1,280	1,260	5.0	4.8	1,300	1,150	5.1	4.4
Total .....	2,910	3,610	3.3	3.9	3,050	3,580	3.4	3.8
<b>West</b>								
California .....	1,210	1,400	3.5	3.7	330	550	1.0	1.5
Washington .....	310	320	3.8	3.8	150	210	1.9	2.5
Other States .....	1,630	1,620	5.6	5.1	880	1,170	3.0	3.7
Total .....	3,150	3,340	4.4	4.3	1,360	1,930	1.9	2.5
<b>United States .....</b>	<b>14,500</b>	<b>16,400</b>	<b>4.2</b>	<b>4.6</b>	<b>10,600</b>	<b>12,600</b>	<b>3.1</b>	<b>3.5</b>

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## Farm Production Expenditures – Region, State, and United States: 2016 and 2017 (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			
	2016	2017	2016	2017	2016	2017	2016	2017
	(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 .....	80	70	0.8	0.6	370	440	3.6	3.9
Other States .....	620	730	2.0	2.3	1,830	1,810	5.8	5.7
Total .....	700	800	1.7	1.9	2,200	2,250	5.2	5.2
<b>South</b>								
Arkansas .....	90	110	1.1	1.3	520	470	6.4	5.7
Florida .....	30	50	0.5	0.8	480	530	8.1	8.6
Georgia .....	70	90	1.0	1.3	330	320	4.6	4.5
Other States .....	160	220	1.1	1.5	750	780	5.2	5.3
Total .....	350	470	1.0	1.3	2,080	2,100	5.9	5.8
<b>Midwest</b>								
Illinois .....	360	430	2.3	2.6	1,860	2,020	11.8	12.1
Indiana .....	160	210	1.6	2.0	960	1,000	9.4	9.7
Iowa .....	370	360	1.4	1.4	2,030	2,120	7.7	8.0
Minnesota .....	310	380	1.8	2.3	1,600	1,500	9.3	9.0
Missouri .....	220	230	2.1	2.2	690	710	6.7	6.8
Wisconsin .....	250	350	2.3	3.0	650	710	6.0	6.1
Other States .....	410	440	2.3	2.6	1,680	1,340	9.4	7.9
Total .....	2,080	2,400	1.9	2.2	9,470	9,400	8.7	8.6
<b>Plains</b>								
Kansas .....	200	260	1.1	1.4	720	830	4.1	4.3
Nebraska .....	290	280	1.3	1.2	1,260	1,210	5.8	5.4
Texas .....	220	320	0.9	1.2	890	950	3.7	3.7
Other States .....	450	540	1.7	2.1	2,140	2,110	8.3	8.1
Total .....	1,160	1,400	1.3	1.5	5,010	5,100	5.6	5.4
<b>West</b>								
California .....	180	230	0.5	0.6	1,750	1,870	5.1	5.0
Washington .....	100	90	1.2	1.1	310	300	3.8	3.5
Other States .....	430	510	1.5	1.6	980	1,180	3.4	3.7
Total .....	710	830	1.0	1.1	3,040	3,350	4.3	4.3
<b>United States .....</b>	<b>5,000</b>	<b>5,900</b>	<b>1.4</b>	<b>1.6</b>	<b>21,800</b>	<b>22,200</b>	<b>6.3</b>	<b>6.2</b>

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## Farm Production Expenditures – Region, State, and United States: 2016 and 2017 (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			
	2016	2017	2016	2017	2016	2017	2016	2017
	(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 .....	120	110	1.2	1.0	20	10	0.2	0.1
Other States .....	590	730	1.9	2.3	80	70	0.3	0.2
Total .....	710	840	1.7	1.9	100	80	0.2	0.2
<b>South</b>								
Arkansas .....	120	180	1.5	2.2	15	10	0.2	0.1
Florida .....	80	90	1.4	1.5	10	5	0.2	0.1
Georgia .....	100	90	1.4	1.3	20	10	0.3	0.1
Other States .....	250	280	1.7	1.9	15	25	0.1	0.2
Total .....	550	640	1.5	1.8	60	50	0.2	0.1
<b>Midwest</b>								
Illinois .....	140	210	0.9	1.3	35	30	0.2	0.2
Indiana .....	120	110	1.2	1.1	35	15	0.3	0.1
Iowa .....	160	240	0.6	0.9	45	30	0.2	0.1
Minnesota .....	160	150	0.9	0.9	25	20	0.1	0.1
Missouri .....	250	230	2.4	2.2	45	40	0.4	0.4
Wisconsin .....	100	160	0.9	1.4	10	25	0.1	0.2
Other States .....	240	300	1.3	1.8	45	30	0.3	0.2
Total .....	1,170	1,400	1.1	1.3	240	190	0.2	0.2
<b>Plains</b>								
Kansas .....	140	190	0.8	1.0	30	15	0.2	0.1
Nebraska .....	180	170	0.8	0.8	30	25	0.1	0.1
Texas .....	500	630	2.1	2.4	80	90	0.3	0.3
Other States .....	440	630	1.7	2.4	80	50	0.3	0.2
Total .....	1,260	1,620	1.4	1.7	220	180	0.2	0.2
<b>West</b>								
California .....	190	280	0.6	0.7	30	10	0.1	(Z)
Washington .....	90	80	1.1	0.9	15	10	0.2	0.1
Other States .....	430	640	1.5	2.0	135	80	0.5	0.3
Total .....	710	1,000	1.0	1.3	180	100	0.3	0.1
<b>United States .....</b>	<b>4,400</b>	<b>5,500</b>	<b>1.3</b>	<b>1.5</b>	<b>800</b>	<b>600</b>	<b>0.2</b>	<b>0.2</b>

(Z) Less than half of the unit shown.



## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Atlantic Region: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	30.2	32.2	9,252	10,334	3,780	4,200
Feed .....	69.0	61.5	23,082	23,447	9,430	9,530
Farm services .....	95.0	91.3	12,483	12,351	5,100	5,020
Rent .....	27.9	19.8	4,259	3,961	1,740	1,610
Agricultural chemicals .....	42.5	33.5	2,839	2,805	1,160	1,140
Fertilizer, lime, and soil conditioners .....	59.2	50.7	5,361	4,970	2,190	2,020
Interest .....	26.1	32.8	2,325	2,608	950	1,060
Taxes .....	100.0	100.0	3,916	4,232	1,600	1,720
Labor .....	25.0	20.9	11,162	10,703	4,560	4,350
Fuel .....	91.4	91.7	3,402	3,912	1,390	1,590
Farm supplies and repairs .....	87.9	87.6	6,242	6,446	2,550	2,620
Farm improvements and construction .....	50.3	52.7	5,972	6,840	2,440	2,780
Tractors and self-propelled farm machinery .....	13.1	13.2	3,696	3,740	1,510	1,520
Other farm machinery .....	14.4	16.1	1,713	1,968	700	800
Seeds and plants .....	34.4	35.6	5,385	5,536	2,200	2,250
Trucks and autos .....	8.6	12.3	1,738	2,067	710	840
Miscellaneous capital expenses .....	5.5	3.7	245	197	100	80
Total farm production expenditures .....	100.0	100.0	103,074	106,117	42,110	43,130

## Farm Production Expenditures Total by Year – Atlantic Region: 2013-2017

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

Expenditure	2013	2014	2015	2016	2017
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	4,300	4,600	4,150	3,780	4,200
Feed .....	10,810	10,630	10,050	9,430	9,530
Farm services .....	4,400	5,290	4,820	5,100	5,020
Rent .....	1,550	1,810	1,730	1,740	1,610
Agricultural chemicals .....	1,250	1,320	1,190	1,160	1,140
Fertilizer, lime, and soil conditioners .....	2,610	2,620	2,290	2,190	2,020
Interest .....	910	1,120	1,080	950	1,060
Taxes .....	1,510	1,970	1,700	1,600	1,720
Labor .....	4,660	4,510	4,160	4,560	4,350
Fuel .....	2,200	2,190	1,650	1,390	1,590
Farm supplies and repairs .....	2,720	3,000	2,910	2,550	2,620
Farm improvements and construction .....	2,460	2,700	2,420	2,440	2,780
Tractors and self-propelled farm machinery .....	2,220	2,120	2,120	1,510	1,520
Other farm machinery .....	1,050	1,190	880	700	800
Seeds and plants .....	1,990	2,190	2,020	2,200	2,250
Trucks and autos .....	700	860	910	710	840
Miscellaneous capital expenses .....	80	70	110	100	80
Total farm production expenditures .....	45,420	48,190	44,190	42,110	43,130

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – North Carolina: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	28.6	33.6	40,208	49,372	1,930	2,360
Feed .....	60.8	63.2	71,667	73,640	3,440	3,520
Farm services .....	96.1	93.6	21,042	20,502	1,010	980
Rent .....	30.6	31.4	5,417	5,649	260	270
Agricultural chemicals .....	51.5	51.7	6,250	6,485	300	310
Fertilizer, lime, and soil conditioners .....	61.5	65.9	8,750	9,205	420	440
Interest .....	29.0	30.4	3,125	3,347	150	160
Taxes .....	100.0	100.0	4,375	4,812	210	230
Labor .....	24.6	30.8	17,500	18,619	840	890
Fuel .....	91.7	93.1	6,042	6,904	290	330
Farm supplies and repairs .....	86.8	86.6	7,708	8,368	370	400
Farm improvements and construction .....	53.1	47.8	6,250	7,322	300	350
Tractors and self-propelled farm machinery .....	13.3	16.3	4,792	5,649	230	270
Other farm machinery .....	14.8	11.1	1,667	1,464	80	70
Seeds and plants .....	38.5	42.8	7,708	9,205	370	440
Trucks and autos .....	12.0	12.1	2,500	2,301	120	110
Miscellaneous capital expenses .....	6.2	4.2	417	209	20	10
Total farm production expenditures .....	100.0	100.0	215,417	233,054	10,340	11,140

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – All Other States, Atlantic Region: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	30.5	32.0	5,131	5,130	1,850	1,840
Feed .....	70.1	61.3	16,614	16,758	5,990	6,010
Farm services .....	94.9	91.0	11,344	11,265	4,090	4,040
Rent .....	27.5	18.3	4,105	3,736	1,480	1,340
Agricultural chemicals .....	41.3	31.0	2,385	2,314	860	830
Fertilizer, lime, and soil conditioners .....	58.8	48.7	4,909	4,406	1,770	1,580
Interest .....	25.7	33.1	2,219	2,509	800	900
Taxes .....	100.0	100.0	3,855	4,155	1,390	1,490
Labor .....	25.1	19.6	10,318	9,648	3,720	3,460
Fuel .....	91.3	91.5	3,051	3,513	1,100	1,260
Farm supplies and repairs .....	88.1	87.8	6,046	6,190	2,180	2,220
Farm improvements and construction .....	49.9	53.3	5,936	6,776	2,140	2,430
Tractors and self-propelled farm machinery .....	13.1	12.8	3,550	3,485	1,280	1,250
Other farm machinery .....	14.4	16.7	1,720	2,035	620	730
Seeds and plants .....	33.9	34.6	5,076	5,047	1,830	1,810
Trucks and autos .....	8.2	12.3	1,636	2,035	590	730
Miscellaneous capital expenses .....	5.4	3.7	222	195	80	70
Total farm production expenditures .....	100.0	100.0	88,118	89,198	31,770	31,990

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – South Region: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	23.1	24.3	12,106	12,212	3,190	3,180
Feed .....	62.9	60.2	32,713	32,911	8,620	8,570
Farm services .....	89.9	91.6	15,939	16,935	4,200	4,410
Rent .....	23.6	20.4	6,831	7,143	1,800	1,860
Agricultural chemicals .....	47.2	39.9	7,438	7,373	1,960	1,920
Fertilizer, lime, and soil conditioners .....	54.0	52.7	8,501	7,873	2,240	2,050
Interest .....	23.0	22.5	2,619	2,995	690	780
Taxes .....	99.3	99.5	3,340	3,341	880	870
Labor .....	24.0	21.1	12,903	12,788	3,400	3,330
Fuel .....	87.2	86.9	5,617	5,607	1,480	1,460
Farm supplies and repairs .....	81.6	78.6	6,186	6,298	1,630	1,640
Farm improvements and construction .....	44.9	43.9	4,782	5,415	1,260	1,410
Tractors and self-propelled farm machinery .....	10.7	13.8	4,288	5,722	1,130	1,490
Other farm machinery .....	11.9	11.1	1,328	1,805	350	470
Seeds and plants .....	32.1	32.8	7,894	8,065	2,080	2,100
Trucks and autos .....	10.9	12.6	2,087	2,458	550	640
Miscellaneous capital expenses .....	3.2	3.7	228	192	60	50
Total farm production expenditures .....	100.0	100.0	134,801	139,132	35,520	36,230

## Farm Production Expenditures Total by Year – South Region: 2013-2017

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

Expenditure	2013	2014	2015	2016	2017
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	2,990	3,750	3,180	3,190	3,180
Feed .....	10,310	9,990	8,750	8,620	8,570
Farm services .....	4,000	4,430	4,180	4,200	4,410
Rent .....	2,150	2,080	2,070	1,800	1,860
Agricultural chemicals .....	1,930	2,210	1,840	1,960	1,920
Fertilizer, lime, and soil conditioners .....	2,760	2,600	2,420	2,240	2,050
Interest .....	660	760	790	690	780
Taxes .....	750	900	900	880	870
Labor .....	3,460	3,460	3,550	3,400	3,330
Fuel .....	1,860	1,970	1,560	1,480	1,460
Farm supplies and repairs .....	1,690	1,840	1,820	1,630	1,640
Farm improvements and construction .....	1,230	1,290	1,330	1,260	1,410
Tractors and self-propelled farm machinery .....	1,690	1,800	1,380	1,130	1,490
Other farm machinery .....	490	510	510	350	470
Seeds and plants .....	2,100	2,160	2,190	2,080	2,100
Trucks and autos .....	570	730	570	550	640
Miscellaneous capital expenses .....	30	20	40	60	50
Total farm production expenditures .....	38,670	40,500	37,080	35,520	36,230

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Arkansas: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	33.7	26.7	17,442	19,149	750	810
Feed .....	71.5	69.0	48,372	51,064	2,080	2,160
Farm services .....	94.0	94.5	19,767	22,695	850	960
Rent .....	32.1	23.4	16,279	17,021	700	720
Agricultural chemicals .....	44.5	32.9	10,465	10,402	450	440
Fertilizer, lime, and soil conditioners .....	46.2	39.7	11,628	10,402	500	440
Interest .....	33.3	30.7	4,186	4,728	180	200
Taxes .....	99.5	98.9	4,186	4,019	180	170
Labor .....	24.5	18.7	8,372	7,801	360	330
Fuel .....	87.5	89.8	9,302	8,983	400	380
Farm supplies and repairs .....	84.5	78.1	8,372	7,565	360	320
Farm improvements and construction .....	50.4	39.9	6,279	4,019	270	170
Tractors and self-propelled farm machinery .....	17.1	17.5	6,512	7,565	280	320
Other farm machinery .....	15.5	12.5	2,093	2,600	90	110
Seeds and plants .....	23.5	19.7	12,093	11,111	520	470
Trucks and autos .....	14.3	22.6	2,791	4,255	120	180
Miscellaneous capital expenses .....	6.0	4.1	349	236	15	10
Total farm production expenditures .....	100.0	100.0	188,488	193,617	8,105	8,190

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Florida: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	25.5	16.3	2,548	1,915	120	90
Feed .....	60.0	62.5	9,342	10,638	440	500
Farm services .....	92.9	91.5	16,136	18,298	760	860
Rent .....	14.1	14.9	2,548	2,979	120	140
Agricultural chemicals .....	40.6	35.0	8,917	8,723	420	410
Fertilizer, lime, and soil conditioners .....	47.1	43.9	10,403	10,000	490	470
Interest .....	15.7	20.5	1,911	2,766	90	130
Taxes .....	100.0	100.0	4,246	3,830	200	180
Labor .....	28.4	25.0	37,580	36,383	1,770	1,710
Fuel .....	81.0	80.9	4,883	4,468	230	210
Farm supplies and repairs .....	76.3	74.7	7,006	7,660	330	360
Farm improvements and construction .....	47.4	51.0	4,671	5,745	220	270
Tractors and self-propelled farm machinery .....	9.4	11.7	2,335	2,766	110	130
Other farm machinery .....	8.5	7.7	637	1,064	30	50
Seeds and plants .....	24.3	22.0	10,191	11,277	480	530
Trucks and autos .....	7.7	10.4	1,699	1,915	80	90
Miscellaneous capital expenses .....	2.7	2.6	212	106	10	5
Total farm production expenditures .....	100.0	100.0	125,265	130,532	5,900	6,135

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Georgia: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	22.3	23.0	20,096	23,227	840	950
Feed .....	53.3	53.5	52,153	51,834	2,180	2,120
Farm services .....	85.1	89.9	20,096	18,093	840	740
Rent .....	23.5	21.9	4,785	5,134	200	210
Agricultural chemicals .....	50.8	44.7	8,134	8,068	340	330
Fertilizer, lime, and soil conditioners .....	57.8	61.2	10,048	8,802	420	360
Interest .....	29.2	25.0	2,871	3,423	120	140
Taxes .....	100.0	100.0	3,828	4,156	160	170
Labor .....	29.4	25.9	12,440	12,958	520	530
Fuel .....	85.0	89.0	5,981	5,623	250	230
Farm supplies and repairs .....	76.2	82.6	6,220	7,090	260	290
Farm improvements and construction .....	43.9	44.2	4,785	5,379	200	220
Tractors and self-propelled farm machinery .....	11.2	13.8	6,459	7,090	270	290
Other farm machinery .....	9.5	12.5	1,675	2,200	70	90
Seeds and plants .....	43.6	35.2	7,895	7,824	330	320
Trucks and autos .....	11.1	10.6	2,392	2,200	100	90
Miscellaneous capital expenses .....	4.9	4.3	478	244	20	10
Total farm production expenditures .....	100.0	100.0	170,335	173,350	7,120	7,090

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – All Other States, South Region: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	19.0	26.8	11,246	10,215	1,480	1,330
Feed .....	64.2	58.6	29,787	29,109	3,920	3,790
Farm services .....	88.9	91.2	13,298	14,209	1,750	1,850
Rent .....	24.2	20.9	5,927	6,068	780	790
Agricultural chemicals .....	49.4	42.4	5,699	5,684	750	740
Fertilizer, lime, & soil conditioners .....	57.8	57.5	6,307	5,991	830	780
Interest .....	20.3	19.8	2,280	2,381	300	310
Taxes .....	98.8	99.3	2,584	2,688	340	350
Labor .....	20.5	19.1	5,699	5,837	750	760
Fuel .....	90.1	87.4	4,559	4,916	600	640
Farm supplies and repairs .....	84.4	78.8	5,167	5,146	680	670
Farm improvements and construction .....	42.5	42.6	4,331	5,760	570	750
Tractors and self-propelled farm machinery .....	9.0	13.4	3,571	5,760	470	750
Other farm machinery .....	12.6	11.4	1,216	1,690	160	220
Seeds and plants .....	34.1	40.1	5,699	5,991	750	780
Trucks and autos .....	10.8	10.7	1,900	2,151	250	280
Miscellaneous capital expenses .....	2.0	3.7	114	192	15	25
Total farm production expenditures .....	100.0	100.0	109,384	113,786	14,395	14,815

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Midwest Region: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	24.7	24.9	15,807	17,036	9,190	9,850
Feed .....	43.2	47.5	28,724	26,288	16,700	15,200
Farm services .....	89.9	93.3	20,468	21,013	11,900	12,150
Rent .....	35.2	34.4	23,650	23,245	13,750	13,440
Agricultural chemicals .....	51.1	49.0	8,755	9,080	5,090	5,250
Fertilizer, lime, and soil conditioners .....	55.5	54.8	15,635	14,839	9,090	8,580
Interest .....	44.0	41.7	5,882	6,244	3,420	3,610
Taxes .....	100.0	100.0	6,519	6,832	3,790	3,950
Labor .....	22.6	21.4	10,131	9,114	5,890	5,270
Fuel .....	80.0	84.8	5,538	6,053	3,220	3,500
Farm supplies and repairs .....	78.6	82.9	9,563	9,581	5,560	5,540
Farm improvements and construction .....	50.9	54.7	8,153	9,097	4,740	5,260
Tractors and self-propelled farm machinery .....	13.2	14.2	6,106	7,056	3,550	4,080
Other farm machinery .....	18.8	20.1	3,578	4,151	2,080	2,400
Seeds and plants .....	50.9	52.8	16,288	16,257	9,470	9,400
Trucks and autos .....	11.7	13.4	2,012	2,421	1,170	1,400
Miscellaneous capital expenses .....	4.1	4.8	413	329	240	190
Total farm production expenditures .....	100.0	100.0	187,221	188,637	108,850	109,070

## Farm Production Expenditures Total by Year – Midwest Region: 2013-2017

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

Expenditure	2013	2014	2015	2016	2017
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	8,500	10,600	10,850	9,190	9,850
Feed .....	16,330	17,560	16,950	16,700	15,200
Farm services .....	10,530	11,830	11,470	11,900	12,150
Rent .....	15,360	15,710	14,380	13,750	13,440
Agricultural chemicals .....	5,170	5,080	4,840	5,090	5,250
Fertilizer, lime, and soil conditioners .....	11,990	10,860	10,310	9,090	8,580
Interest .....	3,250	3,450	3,410	3,420	3,610
Taxes .....	3,740	4,760	4,270	3,790	3,950
Labor .....	5,000	5,590	5,320	5,890	5,270
Fuel .....	4,900	5,100	3,660	3,220	3,500
Farm supplies and repairs .....	5,700	5,780	5,540	5,560	5,540
Farm improvements and construction .....	5,570	6,560	5,390	4,740	5,260
Tractors and self-propelled farm machinery .....	6,570	5,790	3,540	3,550	4,080
Other farm machinery .....	3,990	3,800	2,250	2,080	2,400
Seeds and plants .....	10,110	9,830	9,550	9,470	9,400
Trucks and autos .....	1,540	1,530	1,150	1,170	1,400
Miscellaneous capital expenses .....	150	200	200	240	190
Total farm production expenditures .....	118,400	124,030	113,080	108,850	109,070

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Illinois: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	13.4	16.2	8,864	10,282	640	730
Feed .....	23.4	31.0	12,881	14,930	930	1,060
Farm services .....	80.9	89.7	21,607	22,113	1,560	1,570
Rent .....	41.9	44.0	49,446	50,141	3,570	3,560
Agricultural chemicals .....	60.3	60.8	15,651	15,775	1,130	1,120
Fertilizer, lime, and soil conditioners .....	61.3	63.6	25,900	24,507	1,870	1,740
Interest .....	36.9	40.5	5,817	6,479	420	460
Taxes .....	100.0	100.0	6,371	7,324	460	520
Labor .....	24.2	18.2	8,172	7,746	590	550
Fuel .....	73.7	79.8	6,648	7,324	480	520
Farm supplies and repairs .....	67.7	79.4	9,695	10,423	700	740
Farm improvements and construction .....	42.9	47.2	5,956	9,014	430	640
Tractors and self-propelled farm machinery .....	12.4	17.2	8,864	12,113	640	860
Other farm machinery .....	15.7	21.5	4,986	6,056	360	430
Seeds and plants .....	60.0	63.6	25,762	28,451	1,860	2,020
Trucks and autos .....	10.3	16.0	1,939	2,958	140	210
Miscellaneous capital expenses .....	3.3	5.0	485	423	35	30
Total farm production expenditures .....	100.0	100.0	219,044	236,056	15,815	16,760

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Indiana: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	28.1	28.3	10,957	10,915	630	620
Feed .....	43.8	52.6	25,217	20,775	1,450	1,180
Farm services .....	85.1	94.7	18,435	19,014	1,060	1,080
Rent .....	33.3	34.0	27,478	26,232	1,580	1,490
Agricultural chemicals .....	51.1	47.6	9,739	9,683	560	550
Fertilizer, lime, and soil conditioners .....	53.4	55.0	18,435	17,077	1,060	970
Interest .....	38.7	44.6	5,565	6,338	320	360
Taxes .....	100.0	100.0	7,130	7,746	410	440
Labor .....	18.1	21.6	7,826	7,746	450	440
Fuel .....	79.6	80.9	5,217	6,338	300	360
Farm supplies and repairs .....	77.7	85.0	8,000	9,155	460	520
Farm improvements and construction .....	41.3	53.4	6,261	8,979	360	510
Tractors and self-propelled farm machinery .....	10.9	14.5	5,565	7,570	320	430
Other farm machinery .....	16.3	18.4	2,783	3,697	160	210
Seeds and plants .....	51.5	50.7	16,696	17,606	960	1,000
Trucks and autos .....	10.0	10.8	2,087	1,937	120	110
Miscellaneous capital expenses .....	3.9	3.8	609	264	35	15
Total farm production expenditures .....	100.0	100.0	178,000	181,074	10,235	10,285

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Iowa: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	28.3	27.4	43,448	49,597	3,780	4,310
Feed .....	38.0	42.0	59,885	50,633	5,210	4,400
Farm services .....	95.0	97.1	30,000	30,725	2,610	2,670
Rent .....	44.6	43.9	41,034	41,887	3,570	3,640
Agricultural chemicals .....	63.9	60.1	12,989	12,888	1,130	1,120
Fertilizer, lime, and soil conditioners .....	60.4	61.0	21,609	20,829	1,880	1,810
Interest .....	50.1	49.6	8,621	9,666	750	840
Taxes .....	100.0	100.0	9,655	9,551	840	830
Labor .....	29.0	29.1	8,736	10,357	760	900
Fuel .....	74.6	81.6	7,586	7,365	660	640
Farm supplies and repairs .....	73.7	77.9	11,954	11,277	1,040	980
Farm improvements and construction .....	54.2	57.8	10,230	10,357	890	900
Tractors and self-propelled farm machinery .....	13.3	15.5	7,126	7,020	620	610
Other farm machinery .....	19.7	19.0	4,253	4,143	370	360
Seeds and plants .....	60.4	62.7	23,333	24,396	2,030	2,120
Trucks and autos .....	12.0	15.9	1,839	2,762	160	240
Miscellaneous capital expenses .....	5.5	5.6	517	345	45	30
Total farm production expenditures .....	100.0	100.0	302,816	303,797	26,345	26,400

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Minnesota: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	24.5	23.0	20,737	20,219	1,520	1,480
Feed .....	43.3	39.8	36,835	32,787	2,700	2,400
Farm services .....	94.9	95.9	26,194	27,459	1,920	2,010
Rent .....	41.6	42.9	28,922	25,273	2,120	1,850
Agricultural chemicals .....	55.4	55.0	9,686	10,792	710	790
Fertilizer, lime, and soil conditioners .....	54.3	54.0	19,645	18,306	1,440	1,340
Interest .....	47.8	49.3	7,913	8,470	580	620
Taxes .....	100.0	100.0	9,141	8,743	670	640
Labor .....	28.3	23.4	10,232	9,973	750	730
Fuel .....	80.3	85.8	7,231	8,470	530	620
Farm supplies and repairs .....	78.8	81.1	12,551	12,432	920	910
Farm improvements and construction .....	55.2	53.4	10,095	9,563	740	700
Tractors and self-propelled farm machinery .....	14.3	14.0	6,958	7,514	510	550
Other farm machinery .....	21.1	22.3	4,229	5,191	310	380
Seeds and plants .....	55.1	56.3	21,828	20,492	1,600	1,500
Trucks and autos .....	13.5	14.4	2,183	2,049	160	150
Miscellaneous capital expenses .....	4.2	4.9	341	273	25	20
Total farm production expenditures .....	100.0	100.0	234,720	228,005	17,205	16,690



## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Missouri: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	33.7	29.0	12,293	11,614	1,190	1,130
Feed .....	58.7	66.6	16,529	17,986	1,600	1,750
Farm services .....	91.2	89.5	11,364	10,791	1,100	1,050
Rent .....	25.8	23.3	10,227	10,277	990	1,000
Agricultural chemicals .....	40.9	37.8	5,269	5,858	510	570
Fertilizer, lime, and soil conditioners .....	62.3	51.4	8,161	8,633	790	840
Interest .....	39.8	34.4	4,029	3,392	390	330
Taxes .....	100.0	100.0	2,686	2,878	260	280
Labor .....	22.1	18.5	4,029	3,803	390	370
Fuel .....	86.2	86.0	3,512	4,008	340	390
Farm supplies and repairs .....	85.3	81.4	5,372	5,447	520	530
Farm improvements and construction .....	52.1	52.5	5,372	5,036	520	490
Tractors and self-propelled farm machinery .....	17.6	12.3	5,888	5,550	570	540
Other farm machinery .....	18.4	15.6	2,273	2,364	220	230
Seeds and plants .....	33.0	32.9	7,128	7,297	690	710
Trucks and autos .....	15.8	15.0	2,583	2,364	250	230
Miscellaneous capital expenses .....	6.7	5.6	465	411	45	40
Total farm production expenditures .....	100.0	100.0	107,180	107,708	10,375	10,480

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Wisconsin: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	27.3	31.1	6,696	7,445	460	510
Feed .....	55.4	56.2	28,384	27,591	1,950	1,890
Farm services .....	94.5	95.8	22,562	23,796	1,550	1,630
Rent .....	33.9	34.7	8,588	8,759	590	600
Agricultural chemicals .....	51.5	50.3	4,803	5,255	330	360
Fertilizer, lime, and soil conditioners .....	54.7	54.2	10,335	10,511	710	720
Interest .....	48.4	44.4	6,114	6,861	420	470
Taxes .....	100.0	100.0	5,531	5,985	380	410
Labor .....	22.6	24.2	15,575	15,036	1,070	1,030
Fuel .....	83.5	84.9	4,803	5,547	330	380
Farm supplies and repairs .....	87.4	86.0	12,227	12,117	840	830
Farm improvements and construction .....	61.4	58.5	13,246	14,891	910	1,020
Tractors and self-propelled farm machinery .....	11.0	18.3	5,240	6,715	360	460
Other farm machinery .....	23.3	24.1	3,639	5,109	250	350
Seeds and plants .....	56.7	56.2	9,461	10,365	650	710
Trucks and autos .....	11.0	14.7	1,456	2,336	100	160
Miscellaneous capital expenses .....	1.6	6.3	146	365	10	25
Total farm production expenditures .....	100.0	100.0	158,806	168,686	10,910	11,555

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – All Other States, Midwest Region: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	19.0	21.2	7,705	8,594	970	1,070
Feed .....	39.1	43.5	22,716	20,241	2,860	2,520
Farm services .....	87.3	92.1	16,680	17,189	2,100	2,140
Rent .....	29.8	26.0	10,564	10,442	1,330	1,300
Agricultural chemicals .....	42.2	39.5	5,719	5,944	720	740
Fertilizer, lime, and soil conditioners .....	45.5	48.8	10,643	9,317	1,340	1,160
Interest .....	45.1	35.4	4,289	4,257	540	530
Taxes .....	100.0	100.0	6,116	6,667	770	830
Labor .....	16.4	17.2	14,932	10,040	1,880	1,250
Fuel .....	80.8	90.1	4,607	4,739	580	590
Farm supplies and repairs .....	78.6	87.9	8,578	8,273	1,080	1,030
Farm improvements and construction .....	48.6	57.8	7,069	8,032	890	1,000
Tractors and self-propelled farm machinery .....	11.7	10.9	4,210	5,060	530	630
Other farm machinery .....	17.5	20.7	3,257	3,534	410	440
Seeds and plants .....	47.0	52.3	13,344	10,763	1,680	1,340
Trucks and autos .....	9.4	9.0	1,906	2,410	240	300
Miscellaneous capital expenses .....	2.8	3.2	357	241	45	30
Total farm production expenditures .....	100.0	100.0	142,693	135,743	17,965	16,900

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Plains Region: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	25.5	29.6	42,772	44,238	20,890	21,460
Feed .....	65.7	63.6	23,342	24,799	11,400	12,030
Farm services .....	91.0	89.4	18,939	19,563	9,250	9,490
Rent .....	33.2	30.4	16,810	16,801	8,210	8,150
Agricultural chemicals .....	43.8	38.9	7,514	7,875	3,670	3,820
Fertilizer, lime, and soil conditioners .....	42.5	40.9	11,732	11,029	5,730	5,350
Interest .....	31.7	31.0	4,648	4,968	2,270	2,410
Taxes .....	100.0	100.0	7,125	8,637	3,480	4,190
Labor .....	26.3	26.4	8,190	8,555	4,000	4,150
Fuel .....	82.4	81.1	5,672	6,226	2,770	3,020
Farm supplies and repairs .....	78.7	78.0	7,719	8,452	3,770	4,100
Farm improvements and construction .....	48.3	46.6	5,958	7,442	2,910	3,610
Tractors and self-propelled farm machinery .....	13.6	12.6	6,245	7,380	3,050	3,580
Other farm machinery .....	15.1	12.3	2,375	2,886	1,160	1,400
Seeds and plants .....	29.3	32.9	10,258	10,513	5,010	5,100
Trucks and autos .....	14.1	15.4	2,580	3,340	1,260	1,620
Miscellaneous capital expenses .....	6.1	5.9	450	371	220	180
Total farm production expenditures .....	100.0	100.0	182,330	193,074	89,050	93,660

## Farm Production Expenditures Total by Year – Plains Region: 2013-2017

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

Expenditure	2013	2014	2015	2016	2017
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	14,980	21,680	23,260	20,890	21,460
Feed .....	12,180	12,950	12,150	11,400	12,030
Farm services .....	8,350	9,230	9,130	9,250	9,490
Rent .....	7,820	8,260	8,080	8,210	8,150
Agricultural chemicals .....	3,240	3,540	3,650	3,670	3,820
Fertilizer, lime, and soil conditioners .....	6,550	6,940	6,000	5,730	5,350
Interest .....	2,000	2,290	2,260	2,270	2,410
Taxes .....	3,530	3,530	3,650	3,480	4,190
Labor .....	3,780	4,470	4,070	4,000	4,150
Fuel .....	4,220	4,100	2,950	2,770	3,020
Farm supplies and repairs .....	4,030	4,260	4,110	3,770	4,100
Farm improvements and construction .....	3,720	3,630	3,150	2,910	3,610
Tractors and self-propelled farm machinery .....	4,860	5,180	3,040	3,050	3,580
Other farm machinery .....	2,460	2,500	1,600	1,160	1,400
Seeds and plants .....	4,540	5,000	4,790	5,010	5,100
Trucks and autos .....	1,370	1,940	1,490	1,260	1,620
Miscellaneous capital expenses .....	60	120	150	220	180
Total farm production expenditures .....	87,690	99,620	93,530	89,050	93,660

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Kansas: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	29.9	23.7	100,671	112,081	6,000	6,680
Feed .....	52.3	45.7	41,946	45,302	2,500	2,700
Farm services .....	89.5	88.6	23,826	23,490	1,420	1,400
Rent .....	46.9	44.1	25,839	24,329	1,540	1,450
Agricultural chemicals .....	62.0	56.0	12,919	13,255	770	790
Fertilizer, lime, and soil conditioners .....	59.0	57.5	16,443	16,275	980	970
Interest .....	42.3	40.8	5,872	6,879	350	410
Taxes .....	100.0	100.0	9,396	10,570	560	630
Labor .....	26.7	21.0	10,906	10,235	650	610
Fuel .....	80.8	76.4	7,550	9,060	450	540
Farm supplies and repairs .....	75.8	74.4	10,570	12,081	630	720
Farm improvements and construction .....	48.0	46.5	6,040	8,054	360	480
Tractors and self-propelled farm machinery .....	10.1	13.1	6,711	8,893	400	530
Other farm machinery .....	13.0	18.4	3,356	4,362	200	260
Seeds and plants .....	45.1	49.9	12,081	13,926	720	830
Trucks and autos .....	13.5	14.9	2,349	3,188	140	190
Miscellaneous capital expenses .....	5.0	3.9	503	252	30	15
Total farm production expenditures .....	100.0	100.0	296,980	322,232	17,700	19,205

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Nebraska: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	29.2	29.6	127,479	134,388	6,170	6,370
Feed .....	46.4	44.0	51,033	59,705	2,470	2,830
Farm services .....	90.3	94.8	40,909	42,616	1,980	2,020
Rent .....	53.9	53.6	52,893	51,266	2,560	2,430
Agricultural chemicals .....	64.3	62.9	16,322	17,511	790	830
Fertilizer, lime, and soil conditioners .....	60.6	62.4	28,099	26,793	1,360	1,270
Interest .....	53.4	56.0	11,570	11,603	560	550
Taxes .....	100.0	100.0	22,934	27,848	1,110	1,320
Labor .....	29.4	31.5	14,463	15,190	700	720
Fuel .....	79.5	85.2	11,364	12,025	550	570
Farm supplies and repairs .....	80.9	84.6	17,562	18,354	850	870
Farm improvements and construction .....	46.2	49.9	8,884	12,236	430	580
Tractors and self-propelled farm machinery .....	13.4	15.1	8,884	11,181	430	530
Other farm machinery .....	23.1	20.2	5,992	5,907	290	280
Seeds and plants .....	59.9	61.5	26,033	25,527	1,260	1,210
Trucks and autos .....	18.8	18.2	3,719	3,586	180	170
Miscellaneous capital expenses .....	9.4	8.8	620	527	30	25
Total farm production expenditures .....	100.0	100.0	448,760	476,266	21,720	22,575

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Texas: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	22.0	27.3	23,478	22,542	5,670	5,410
Feed .....	78.2	71.5	18,882	18,333	4,560	4,400
Farm services .....	90.0	86.4	11,387	13,000	2,750	3,120
Rent .....	22.3	19.7	4,306	4,708	1,040	1,130
Agricultural chemicals .....	33.9	26.7	2,484	2,917	600	700
Fertilizer, lime, and soil conditioners .....	34.3	32.8	3,768	4,292	910	1,030
Interest .....	17.4	16.6	1,739	1,708	420	410
Taxes .....	100.0	100.0	3,892	4,333	940	1,040
Labor .....	25.4	26.9	7,619	8,417	1,840	2,020
Fuel .....	83.8	79.5	3,271	3,750	790	900
Farm supplies and repairs .....	78.1	73.6	3,851	4,500	930	1,080
Farm improvements and construction .....	42.7	40.9	3,478	5,375	840	1,290
Tractors and self-propelled farm machinery .....	11.5	12.1	3,810	5,708	920	1,370
Other farm machinery .....	12.1	7.8	911	1,333	220	320
Seeds and plants .....	17.6	20.8	3,685	3,958	890	950
Trucks and autos .....	9.3	11.5	2,070	2,625	500	630
Miscellaneous capital expenses .....	4.3	4.5	331	375	80	90
Total farm production expenditures .....	100.0	100.0	98,965	107,875	23,900	25,890

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – All Other States, Plains Region: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	28.2	36.0	21,958	21,723	3,050	3,000
Feed .....	56.4	64.3	13,463	15,206	1,870	2,100
Farm services .....	93.5	93.0	22,318	21,361	3,100	2,950
Rent .....	39.0	35.1	22,102	22,737	3,070	3,140
Agricultural chemicals .....	46.2	44.4	10,871	10,862	1,510	1,500
Fertilizer, lime, & soil conditioners .....	43.2	40.5	17,855	15,062	2,480	2,080
Interest .....	44.6	43.2	6,767	7,531	940	1,040
Taxes .....	100.0	100.0	6,263	8,689	870	1,200
Labor .....	26.5	26.2	5,832	5,793	810	800
Fuel .....	81.6	84.5	7,055	7,314	980	1,010
Farm supplies and repairs .....	80.3	84.8	9,791	10,355	1,360	1,430
Farm improvements and construction .....	59.0	55.6	9,215	9,124	1,280	1,260
Tractors and self-propelled farm machinery .....	18.8	12.6	9,359	8,327	1,300	1,150
Other farm machinery .....	18.4	14.7	3,240	3,910	450	540
Seeds and plants .....	32.2	37.0	15,407	15,279	2,140	2,110
Trucks and autos .....	21.1	21.3	3,168	4,562	440	630
Miscellaneous capital expenses .....	8.5	8.1	576	362	80	50
Total farm production expenditures .....	100.0	100.0	185,241	188,197	25,730	25,990

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – West Region: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	24.0	27.0	9,504	10,996	2,950	3,410
Feed .....	50.4	53.7	30,445	31,828	9,450	9,870
Farm services .....	89.5	91.4	36,244	41,051	11,250	12,730
Rent .....	23.7	24.0	13,853	14,963	4,300	4,640
Agricultural chemicals .....	39.2	39.3	10,696	10,867	3,320	3,370
Fertilizer, lime, and soil conditioners .....	39.0	37.9	13,692	12,899	4,250	4,000
Interest .....	25.4	27.6	5,702	6,579	1,770	2,040
Taxes .....	97.0	97.7	6,927	7,320	2,150	2,270
Labor .....	33.5	31.3	52,352	58,046	16,250	18,000
Fuel .....	78.8	76.9	7,861	7,836	2,440	2,430
Farm supplies and repairs .....	75.7	76.9	13,177	14,189	4,090	4,400
Farm improvements and construction .....	47.3	45.7	10,148	10,771	3,150	3,340
Tractors and self-propelled farm machinery .....	13.6	12.3	4,381	6,224	1,360	1,930
Other farm machinery .....	11.8	12.9	2,287	2,677	710	830
Seeds and plants .....	26.3	28.9	9,794	10,803	3,040	3,350
Trucks and autos .....	11.8	15.9	2,287	3,225	710	1,000
Miscellaneous capital expenses .....	7.5	5.1	580	322	180	100
Total farm production expenditures .....	100.0	100.0	229,929	250,597	71,370	77,710

## Farm Production Expenditures Total by Year – West Region: 2013-2017

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

Expenditure	2013	2014	2015	2016	2017
	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	3,430	4,470	3,960	2,950	3,410
Feed .....	12,770	12,570	10,600	9,450	9,870
Farm services .....	11,720	14,520	12,000	11,250	12,730
Rent .....	4,520	4,740	4,740	4,300	4,640
Agricultural chemicals .....	3,010	3,650	3,080	3,320	3,370
Fertilizer, lime, and soil conditioners .....	4,390	4,980	4,480	4,250	4,000
Interest .....	1,880	2,080	1,960	1,770	2,040
Taxes .....	2,170	2,440	2,280	2,150	2,270
Labor .....	15,100	16,170	14,700	16,250	18,000
Fuel .....	3,220	3,340	2,480	2,440	2,430
Farm supplies and repairs .....	4,560	5,020	4,320	4,090	4,400
Farm improvements and construction .....	3,620	4,020	3,810	3,150	3,340
Tractors and self-propelled farm machinery .....	1,760	2,010	1,820	1,360	1,930
Other farm machinery .....	810	1,000	860	710	830
Seeds and plants .....	3,160	2,920	2,750	3,040	3,350
Trucks and autos .....	810	1,140	880	710	1,000
Miscellaneous capital expenses .....	160	190	200	180	100
Total farm production expenditures .....	77,090	85,260	74,920	71,370	77,710

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – California: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	18.1	24.1	9,648	9,728	740	750
Feed .....	28.2	32.5	51,239	46,044	3,930	3,550
Farm services .....	95.2	96.8	74,967	86,252	5,750	6,650
Rent .....	17.4	18.0	24,641	27,237	1,890	2,100
Agricultural chemicals .....	55.9	51.9	23,990	23,735	1,840	1,830
Fertilizer, lime, and soil conditioners .....	59.1	49.7	28,031	24,125	2,150	1,860
Interest .....	22.3	29.4	7,953	11,933	610	920
Taxes .....	100.0	100.0	13,299	15,305	1,020	1,180
Labor .....	57.1	46.6	128,814	147,341	9,880	11,360
Fuel .....	82.1	73.0	14,602	12,970	1,120	1,000
Farm supplies and repairs .....	80.4	76.1	20,600	23,865	1,580	1,840
Farm improvements and construction .....	38.8	43.4	15,776	18,158	1,210	1,400
Tractors and self-propelled farm machinery .....	8.4	11.4	4,302	7,134	330	550
Other farm machinery .....	8.3	10.0	2,347	2,983	180	230
Seeds and plants .....	33.3	34.5	22,816	24,254	1,750	1,870
Trucks and autos .....	9.1	12.2	2,477	3,632	190	280
Miscellaneous capital expenses .....	4.2	2.8	391	130	30	10
Total farm production expenditures .....	100.0	100.0	445,893	484,825	34,200	37,380

## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – Washington: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	27.0	21.4	2,786	14,846	100	530
Feed .....	54.6	54.5	23,120	32,213	830	1,150
Farm services .....	86.4	82.2	39,554	37,255	1,420	1,330
Rent .....	22.6	18.6	16,156	15,406	580	550
Agricultural chemicals .....	38.2	34.8	12,256	13,165	440	470
Fertilizer, lime, and soil conditioners .....	42.3	35.7	13,928	11,485	500	410
Interest .....	27.8	30.4	5,571	4,762	200	170
Taxes .....	100.0	100.0	6,685	5,882	240	210
Labor .....	30.7	27.3	57,660	57,143	2,070	2,040
Fuel .....	81.0	75.1	6,407	5,322	230	190
Farm supplies and repairs .....	79.9	79.6	14,485	12,325	520	440
Farm improvements and construction .....	49.4	50.1	8,635	8,964	310	320
Tractors and self-propelled farm machinery .....	11.4	12.1	4,178	5,882	150	210
Other farm machinery .....	16.0	13.1	2,786	2,521	100	90
Seeds and plants .....	28.0	25.6	8,635	8,403	310	300
Trucks and autos .....	11.9	11.2	2,507	2,241	90	80
Miscellaneous capital expenses .....	5.4	2.6	418	280	15	10
Total farm production expenditures .....	100.0	100.0	225,766	238,095	8,105	8,500

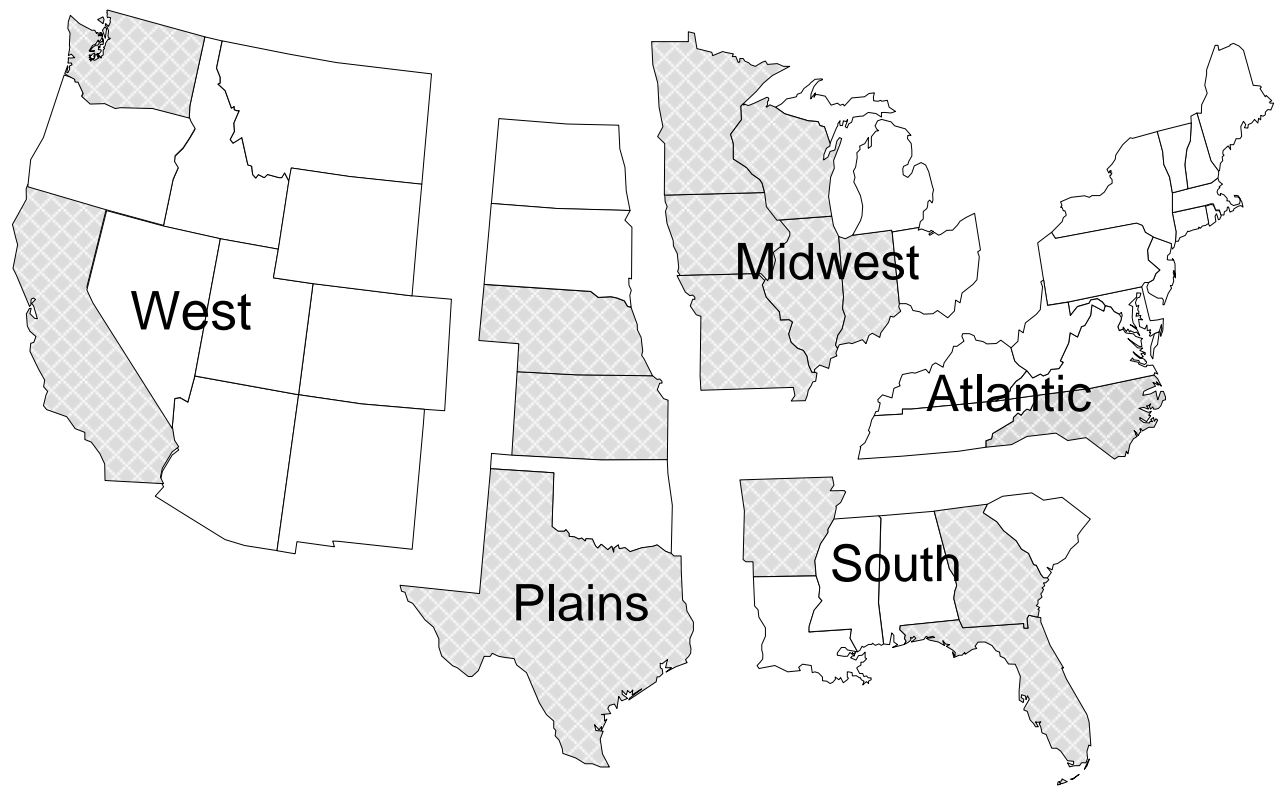
## Farm Production Expenditures by Farms Reporting, Average per Farm, and Total – All Other States, West Region: 2016 and 2017

[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	
	2016	2017	2016	2017	2016	2017
	(percent)	(percent)	(dollars)	(dollars)	(million dollars)	(million dollars)
Livestock, poultry, and related expenses .....	25.8	29.1	10,667	10,796	2,110	2,130
Feed .....	58.2	61.8	23,711	26,204	4,690	5,170
Farm services .....	87.8	91.0	20,627	24,075	4,080	4,750
Rent .....	26.4	27.3	9,252	10,086	1,830	1,990
Agricultural chemicals .....	32.9	35.1	5,258	5,423	1,040	1,070
Fertilizer, lime, & soil conditioners .....	30.6	33.7	8,089	8,768	1,600	1,730
Interest .....	26.1	26.4	4,853	4,815	960	950
Taxes .....	95.4	96.3	4,499	4,460	890	880
Labor .....	24.9	26.1	21,739	23,315	4,300	4,600
Fuel .....	77.2	78.7	5,511	6,285	1,090	1,240
Farm supplies and repairs .....	73.1	76.7	10,061	10,745	1,990	2,120
Farm improvements and construction .....	50.1	45.8	8,241	8,211	1,630	1,620
Tractors and self-propelled farm machinery .....	16.0	12.7	4,449	5,930	880	1,170
Other farm machinery .....	12.4	14.0	2,174	2,585	430	510
Seeds and plants .....	23.2	27.3	4,954	5,981	980	1,180
Trucks and autos .....	12.9	18.2	2,174	3,244	430	640
Miscellaneous capital expenses .....	9.2	6.5	683	405	135	80
Total farm production expenditures .....	100.0	100.0	146,941	161,328	29,065	31,830



# 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 3 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 Phase 2 - 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 around 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 which allows 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 2017 Agricultural Resource Management Survey

**Publication:** *Farm Production Expenditures 2017 Summary* was released on August 2, 2018. This publication is released early in August each year.

**Data Collection:** The Agricultural Resource Management Survey (ARMS Phase 3) was conducted January through April of 2018.

**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 2017 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 2017 sample was 34,598 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 2017, there was only one COP commodity: Wheat. The States involved for this year were:

**Wheat:** Arizona, California, Colorado, Idaho, Illinois, Kansas, Michigan, Minnesota, Missouri, Montana, Nebraska, North Dakota, Ohio, Oklahoma, Oregon, South Dakota, Texas, Washington

## 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

For your convenience, you may access NASS reports and products the following ways:

- 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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