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Farm Production Expenditures 2002 Summary

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Farm Production Expenditures down 1.9 Percent in 2002

U.S. farm production expenditures totaled \$191.4 billion in 2002, down 1.9 percent from the revised 2001 total of \$195.2 billion. The largest contributors to the decrease were fertilizer, lime & soil conditioners down 7.8 percent; fuels down 6.0 percent; agricultural chemicals down 4.7 percent; farm supplies & repairs down 3.9 percent; rent down 2.4 percent; and livestock and poultry purchases down 2.2 percent. The only expenditure categories that showed increases were farm improvements & construction up 2.6 percent, and seeds & plants up 2.4 percent. The largest two expenditure categories were farm services, which accounted for 14.0 percent of the U.S. total production expenses, and feed, which accounted for 12.8 percent of the U.S. total. The farm services category includes expense items such as custom work, utilities, marketing charges, veterinary services, transportation costs, and miscellaneous business expenses.

The average expenditures per U.S. farm in 2002 were \$88,932, compared to \$90,711 as revised for 2001. On the average, U.S. farm operations in 2002 spent \$12,452 on farm services; \$11,384 on feed; \$9,990 on labor; \$8,410 on livestock and poultry purchases; and \$7,434 on rent. Revised estimates for 2001 indicated that U.S. farms spent an average of \$12,501 on farm services; \$11,525 on feed; \$10,084 on labor; \$8,597 on livestock and poultry purchases; and \$7,621 on rent.

Expenditures by Farm Production Region (as defined on page 29) reveal that fertilizer and fuels expenditure categories were down in each region, while the other expenditure categories showed more variation across regions. The Farm Production Region contributing most to the total 2002 U.S. farm production expenditures was the Corn Belt, with expenses of \$35.3 billion, 18.5 percent of the U.S. total. Expenditures in the Corn Belt were down 2.4 percent from the 2001 level of \$36.2 billion. In total expenditures, the Corn Belt was followed by the Pacific Region at \$32.1 billion (2001 - \$33.3 billion); Northern Plains at \$24.5 billion (2001 - \$25.7 billion); Lake States at \$20.0 billion (2001 - \$20.4 billion); and the Southern Plains at \$15.8 billion (2001 - \$16.5 billion).

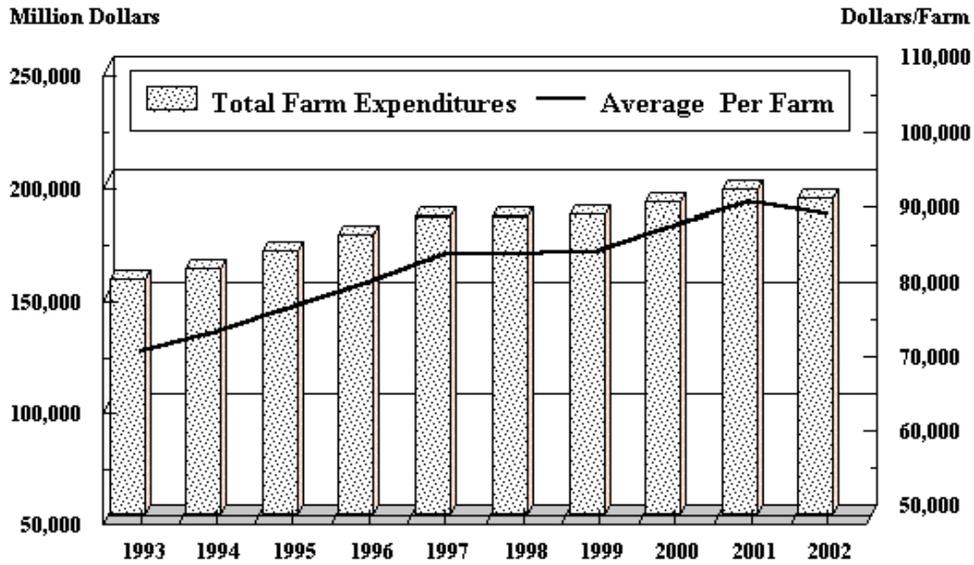
The U.S. Economic Sales Classes were updated to be consistent with other NASS economic publications and to give a more in-depth look at expenditures by gross value of sales (for more information on the new classes see Program History on page 30). Also, the 2001 expenditure estimates were updated using the new Economic Sales classes to provide an historical reference.

The U.S. Economic Sales Class (as defined in the table of contents on page 1) contributing most to the 2002 U.S. farm production expenditures was the \$1,000,000 and Over Sales Class, with expenses of \$55.8 billion, 29.2 percent of the U.S. total. Expenditures in the \$1,000,000 and Over Sales Class were down 6.8 percent from the 2001 level of \$59.9 billion. In total expenditures, the \$1,000,000 and Over Sales Class was followed by the \$250,000 - \$499,999 Sales Class at \$30.9 billion (2001 - \$30.6 billion); and the \$500,000 - \$999,999 Sales Class at \$25.7 billion (2001 - \$26.1 billion).

Farm Production Expenditures down 1.9 Percent in 2002 (cont)

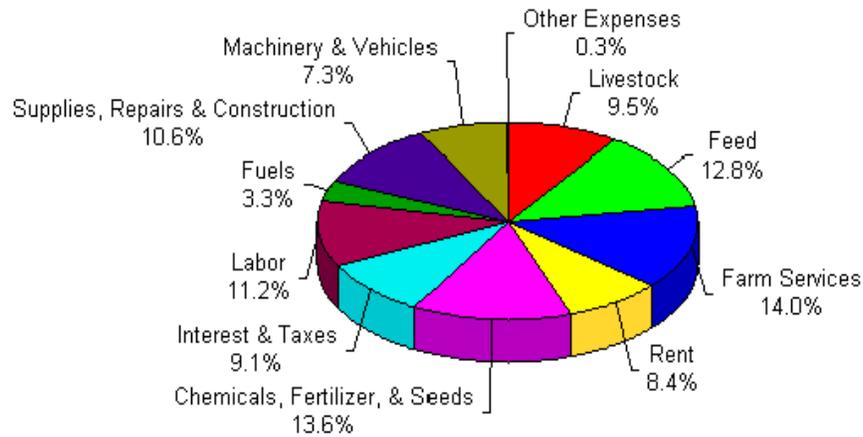
Expenditure estimates by Type of Farm reveals that Crop Farms, with expenses of \$100.0 billion, contributed 52.3 percent of the 2002 U.S. farm production expenditures. Expenditures for Crop Farms were down 3.3 percent from the 2001 level of \$103.5 billion. Livestock Farm expenses of \$91.4 billion were down 0.4 percent from the 2001 level of \$91.8 billion.

U.S. Farm Production Expenditures Total and Average Per Farm, 1993-02

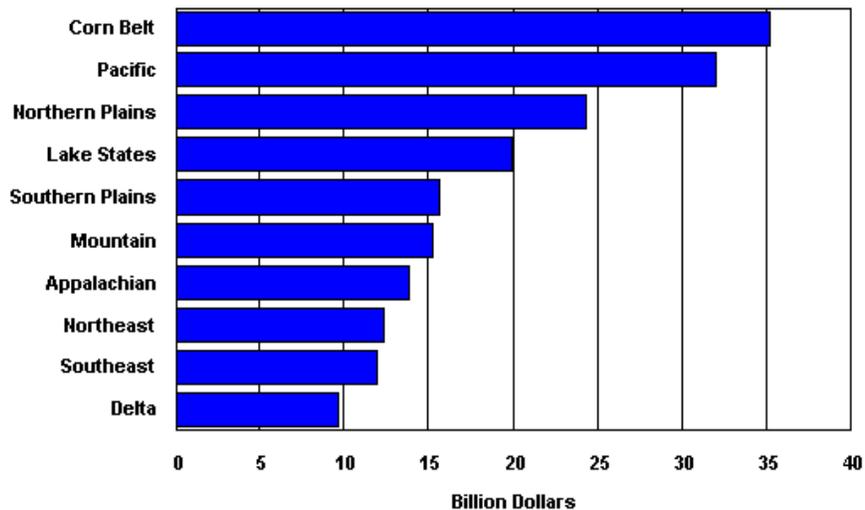


Farm Production Expenditures

Major Input Items By Percent of Total United States, 2002



US Farm Production Expenditures Farm Production Regions, 2002



**Farm Production Expenditures:
Major Input Items, Total and Percent of Total,
United States, 2001-02 ¹**

Expenditure - Farm Share	2001		2002	
	<i>Million Dollars</i>	<i>Percent</i>	<i>Million Dollars</i>	<i>Percent</i>
Total Farm Production Expenditures ^{2 3}	195,200	100.0	191,400	100.0
Livestock, Poultry & Related Expenses ⁴	18,500	9.5	18,100	9.5
Feed	24,800	12.7	24,500	12.8
Farm Services ⁵	26,900	13.8	26,800	14.0
Rent ⁶	16,400	8.4	16,000	8.4
Agricultural Chemicals ⁷	8,600	4.4	8,200	4.3
Fertilizer, Lime & Soil Conditioners ⁷	10,300	5.3	9,500	5.0
Interest	11,000	5.6	10,500	5.5
Taxes (Real Estate & Property)	6,900	3.5	6,900	3.6
Labor	21,700	11.1	21,500	11.2
Fuels	6,700	3.4	6,300	3.3
Farm Supplies & Repairs ⁸	12,700	6.5	12,200	6.4
Farm Improvements & Construction ⁹	7,800	4.0	8,000	4.2
Tractors and Self-Propelled Farm Machinery	6,200	3.2	6,200	3.2
Other Farm Machinery	3,700	1.9	3,700	1.9
Seeds & Plants ¹⁰	8,200	4.2	8,400	4.4
Trucks & Autos	4,300	2.2	4,100	2.1

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
United States, 2001-02¹**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	90,711	88,932	195,200	191,400
Livestock, Poultry & Related Expenses ⁴	30.9	31.4	8,597	8,410	18,500	18,100
Feed	63.7	64.0	11,525	11,384	24,800	24,500
Farm Services ⁵	94.2	95.3	12,501	12,452	26,900	26,800
Rent ⁶	35.2	33.7	7,621	7,434	16,400	16,000
Agricultural Chemicals ⁷	52.1	50.6	3,996	3,810	8,600	8,200
Fertilizer, Lime & Soil Conditioners ⁷	62.5	60.9	4,786	4,414	10,300	9,500
Interest	45.1	45.6	5,112	4,879	11,000	10,500
Taxes (Real Estate & Property)	99.0	98.3	3,206	3,206	6,900	6,900
Labor	39.2	36.2	10,084	9,990	21,700	21,500
Fuels	85.9	86.4	3,114	2,927	6,700	6,300
Farm Supplies & Repairs ⁸	84.8	85.3	5,902	5,669	12,700	12,200
Farm Improvements & Construction ⁹	50.7	48.6	3,625	3,717	7,800	8,000
Tractors and Self-Propelled Farm Machinery	14.8	13.4	2,881	2,881	6,200	6,200
Other Farm Machinery	24.3	19.8	1,719	1,719	3,700	3,700
Seeds & Plants ¹⁰	49.6	45.7	3,811	3,903	8,200	8,400
Trucks & Autos	17.8	14.9	1,998	1,905	4,300	4,100

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Crop Farms, United States, 2001-02 ¹**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	112,544	110,214	103,450	100,030
Livestock, Poultry & Related Expenses ⁴	13.3	14.3	2,023	1,994	1,860	1,810
Feed	28.8	26.0	1,632	1,587	1,500	1,440
Farm Services ⁵	91.9	92.1	17,211	16,968	15,820	15,400
Rent ⁶	39.7	37.5	13,914	13,773	12,790	12,500
Agricultural Chemicals ⁷	65.5	64.7	8,170	7,812	7,510	7,090
Fertilizer, Lime & Soil Conditioners ⁷	70.0	69.4	8,518	7,834	7,830	7,110
Interest	47.3	48.2	6,310	5,972	5,800	5,420
Taxes (Real Estate & Property)	99.3	98.5	4,460	4,440	4,100	4,030
Labor	42.7	41.4	16,960	16,747	15,590	15,200
Fuels	81.0	84.5	4,689	4,374	4,310	3,970
Farm Supplies & Repairs ⁸	78.7	81.1	8,301	7,823	7,630	7,100
Farm Improvements & Construction ⁹	43.8	42.3	3,808	3,944	3,500	3,580
Tractors and Self-Propelled Farm Machinery	16.9	15.2	4,091	4,077	3,760	3,700
Other Farm Machinery	23.1	20.5	2,165	2,281	1,990	2,070
Seeds & Plants ¹⁰	64.3	61.7	7,637	7,966	7,020	7,230
Trucks & Autos	17.6	14.3	2,285	2,204	2,100	2,000

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Livestock Farms, United States, 2001-02 ¹**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	74,430	73,413	91,750	91,370
Livestock, Poultry & Related Expenses ⁴	44.1	43.8	13,499	13,089	16,640	16,290
Feed	89.7	91.3	18,902	18,528	23,300	23,060
Farm Services ⁵	95.9	97.7	8,988	9,160	11,080	11,400
Rent ⁶	31.8	31.0	2,929	2,812	3,610	3,500
Agricultural Chemicals ⁷	42.2	40.5	884	892	1,090	1,110
Fertilizer, Lime & Soil Conditioners ⁷	57.0	54.8	2,004	1,920	2,470	2,390
Interest	43.4	43.8	4,218	4,082	5,200	5,080
Taxes (Real Estate & Property)	98.7	98.2	2,271	2,306	2,800	2,870
Labor	36.6	32.5	4,957	5,062	6,110	6,300
Fuels	89.6	87.7	1,939	1,872	2,390	2,330
Farm Supplies & Repairs ⁸	89.3	88.4	4,113	4,098	5,070	5,100
Farm Improvements & Construction ⁹	55.8	53.1	3,488	3,551	4,300	4,420
Tractors and Self-Propelled Farm Machinery	13.3	12.1	1,979	2,009	2,440	2,500
Other Farm Machinery	25.1	19.3	1,387	1,310	1,710	1,630
Seeds & Plants ¹⁰	38.7	34.2	957	940	1,180	1,170
Trucks & Autos	17.9	15.4	1,785	1,687	2,200	2,100

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Economic Class Gross Sales \$1,000,000 and Over, United States, 2001-02 ¹**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	2,294,636	2,137,931	59,890	55,800
Livestock, Poultry & Related Expenses ⁴	59.2	59.1	352,490	307,280	9,200	8,020
Feed	62.1	64.7	463,218	430,651	12,090	11,240
Farm Services ⁵	100.0	100.0	293,870	286,973	7,670	7,490
Rent ⁶	70.5	60.1	109,195	96,169	2,850	2,510
Agricultural Chemicals ⁷	83.5	79.0	80,077	66,284	2,090	1,730
Fertilizer, Lime & Soil Conditioners ⁷	76.6	69.7	69,732	58,238	1,820	1,520
Interest	86.2	86.6	81,992	75,096	2,140	1,960
Taxes (Real Estate & Property)	98.7	97.3	34,866	34,100	910	890
Labor	94.8	89.7	407,663	401,533	10,640	10,480
Fuels	99.3	97.5	50,575	46,743	1,320	1,220
Farm Supplies & Repairs ⁸	99.7	97.6	126,437	114,943	3,300	3,000
Farm Improvements & Construction ⁹	84.1	76.1	71,648	74,330	1,870	1,940
Tractors and Self-Propelled Farm Machinery	40.4	36.5	27,969	26,820	730	700
Other Farm Machinery	44.0	36.2	11,494	11,111	300	290
Seeds & Plants ¹⁰	74.6	66.0	94,253	88,889	2,460	2,320
Trucks & Autos	41.9	34.0	11,877	11,111	310	290

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Economic Class Gross Sales \$500,000 - \$999,999, United States, 2001-02 ¹**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	610,773	599,766	26,080	25,670
Livestock, Poultry & Related Expenses ⁴	50.0	52.5	60,890	64,252	2,600	2,750
Feed	58.2	60.7	74,005	84,112	3,160	3,600
Farm Services ⁵	100.0	99.3	84,075	81,075	3,590	3,470
Rent ⁶	79.4	70.5	70,258	65,421	3,000	2,800
Agricultural Chemicals ⁷	88.8	82.1	33,958	32,477	1,450	1,390
Fertilizer, Lime & Soil Conditioners ⁷	85.3	78.0	37,237	32,710	1,590	1,400
Interest	82.2	85.8	28,806	26,402	1,230	1,130
Taxes (Real Estate & Property)	99.1	98.5	16,159	15,654	690	670
Labor	84.7	84.2	66,276	65,654	2,830	2,810
Fuels	99.4	97.2	21,077	20,093	900	860
Farm Supplies & Repairs ⁸	99.2	97.5	32,084	30,607	1,370	1,310
Farm Improvements & Construction ⁹	78.6	75.4	20,609	19,159	880	820
Tractors and Self-Propelled Farm Machinery	37.1	33.3	20,843	19,860	890	850
Other Farm Machinery	49.7	40.4	9,836	9,813	420	420
Seeds & Plants ¹⁰	83.7	76.5	24,824	23,832	1,060	1,020
Trucks & Autos	40.3	34.5	8,899	7,710	380	330

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Economic Class Gross Sales \$250,000 - \$499,999, United States, 2001-02 ¹**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	347,279	346,577	30,630	30,880
Livestock, Poultry & Related Expenses ⁴	45.1	45.7	26,077	29,181	2,300	2,600
Feed	59.5	58.2	36,735	34,792	3,240	3,100
Farm Services ⁵	100.0	100.0	47,506	45,455	4,190	4,050
Rent ⁶	82.4	81.3	43,991	44,893	3,880	4,000
Agricultural Chemicals ⁷	88.7	88.7	19,955	19,641	1,760	1,750
Fertilizer, Lime & Soil Conditioners ⁷	86.3	90.3	23,016	22,222	2,030	1,980
Interest	83.9	84.1	19,501	17,733	1,720	1,580
Taxes (Real Estate & Property)	98.3	98.3	9,864	9,764	870	870
Labor	83.8	82.3	32,766	33,221	2,890	2,960
Fuels	97.4	99.4	12,472	11,560	1,100	1,030
Farm Supplies & Repairs ⁸	98.7	99.0	20,862	21,100	1,840	1,880
Farm Improvements & Construction ⁹	73.1	72.8	9,637	10,774	850	960
Tractors and Self-Propelled Farm Machinery	32.5	29.5	13,492	12,682	1,190	1,130
Other Farm Machinery	46.1	43.0	9,524	9,652	840	860
Seeds & Plants ¹⁰	86.1	86.9	14,739	17,396	1,300	1,550
Trucks & Autos	37.8	28.9	6,463	5,836	570	520

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Economic Class Gross Sales \$100,000 - \$249,999, United States, 2001-02 ¹**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	176,449	179,070	33,790	33,880
Livestock, Poultry & Related Expenses ⁴	42.8	40.1	10,235	11,628	1,960	2,200
Feed	59.5	61.7	14,935	15,328	2,860	2,900
Farm Services ⁵	100.0	100.0	24,125	24,841	4,620	4,700
Rent ⁶	76.1	77.6	21,149	21,564	4,050	4,080
Agricultural Chemicals ⁷	88.3	86.2	9,608	9,778	1,840	1,850
Fertilizer, Lime & Soil Conditioners ⁷	85.8	88.3	12,324	11,628	2,360	2,200
Interest	78.8	78.1	11,697	11,099	2,240	2,100
Taxes (Real Estate & Property)	98.5	97.8	7,206	7,347	1,380	1,390
Labor	69.5	68.4	13,629	13,848	2,610	2,620
Fuels	99.0	98.2	7,520	6,871	1,440	1,300
Farm Supplies & Repairs ⁸	99.2	98.2	13,003	12,791	2,490	2,420
Farm Improvements & Construction ⁹	70.2	61.4	5,744	5,655	1,100	1,070
Tractors and Self-Propelled Farm Machinery	25.1	23.4	6,841	7,452	1,310	1,410
Other Farm Machinery	45.1	37.2	4,230	4,228	810	800
Seeds & Plants ¹⁰	85.8	84.6	9,817	10,465	1,880	1,980
Trucks & Autos	24.3	24.3	3,812	4,017	730	760

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Economic Class Gross Sales \$50,000 - \$99,999, United States, 2001-02 ¹**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	82,043	83,909	14,620	14,810
Livestock, Poultry & Related Expenses ⁴	36.2	36.4	4,882	4,986	870	880
Feed	58.0	61.4	5,724	6,119	1,020	1,080
Farm Services ⁵	100.0	99.9	12,065	13,031	2,150	2,300
Rent ⁶	65.1	59.5	7,295	7,705	1,300	1,360
Agricultural Chemicals ⁷	82.2	82.0	4,349	4,476	775	790
Fertilizer, Lime & Soil Conditioners ⁷	84.3	83.9	5,584	5,722	995	1,010
Interest	67.0	64.7	5,275	5,666	940	1,000
Taxes (Real Estate & Property)	98.9	98.3	4,040	4,136	720	730
Labor	53.6	50.7	6,229	5,666	1,110	1,000
Fuels	98.5	95.5	3,591	3,683	640	650
Farm Supplies & Repairs ⁸	98.2	94.8	6,846	6,686	1,220	1,180
Farm Improvements & Construction ⁹	56.9	55.2	3,648	3,739	650	660
Tractors and Self-Propelled Farm Machinery	21.2	18.5	3,704	3,513	660	620
Other Farm Machinery	34.9	27.0	2,076	2,040	370	360
Seeds & Plants ¹⁰	79.1	77.0	4,097	4,193	730	740
Trucks & Autos	27.3	19.3	2,469	2,380	440	420

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Economic Class Gross Sales \$10,000 - \$49,999, United States, 2001-02 ¹**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	37,144	36,710	17,250	16,850
Livestock, Poultry & Related Expenses ⁴	33.9	35.0	2,137	2,288	990	1,050
Feed	65.5	63.3	2,699	2,832	990	1,300
Farm Services ⁵	98.4	98.9	5,484	5,577	2,540	2,560
Rent ⁶	46.0	41.4	2,310	2,157	1,070	990
Agricultural Chemicals ⁷	58.2	58.0	1,144	1,155	530	530
Fertilizer, Lime & Soil Conditioners ⁷	70.0	70.7	2,278	2,026	1,055	930
Interest	48.9	47.5	2,936	2,680	1,360	1,230
Taxes (Real Estate & Property)	98.7	98.8	2,396	2,440	1,110	1,120
Labor	42.2	40.5	2,310	2,200	1,070	1,010
Fuels	89.8	91.3	1,727	1,590	800	730
Farm Supplies & Repairs ⁸	89.9	91.6	3,152	3,050	1,460	1,400
Farm Improvements & Construction ⁹	52.6	52.6	2,483	2,593	1,150	1,190
Tractors and Self-Propelled Farm Machinery	13.2	13.2	1,684	1,786	780	820
Other Farm Machinery	24.7	22.0	1,166	1,155	540	530
Seeds & Plants ¹⁰	58.4	53.8	1,231	1,264	570	580
Trucks & Autos	19.6	16.5	1,900	1,830	880	840

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Economic Class Gross Sales Less Than \$10,000, United States, 2001-02 ¹**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	11,175	11,553	12,985	13,510
Livestock, Poultry & Related Expenses ⁴	24.5	25.4	499	513	580	600
Feed	65.0	65.5	1,015	1,095	1,180	1,280
Farm Services ⁵	89.9	91.8	1,842	1,907	2,140	2,230
Rent ⁶	13.4	14.1	215	222	250	260
Agricultural Chemicals ⁷	34.3	32.5	133	137	155	160
Fertilizer, Lime & Soil Conditioners ⁷	49.4	46.0	387	393	450	460
Interest	29.4	31.4	1,179	1,283	1,370	1,500
Taxes (Real Estate & Property)	99.2	98.2	1,050	1,052	1,220	1,230
Labor	24.4	20.7	473	530	550	620
Fuels	78.6	79.5	430	436	500	510
Farm Supplies & Repairs ⁸	76.3	77.6	878	864	1,020	1,010
Farm Improvements & Construction ⁹	42.1	40.4	1,119	1,163	1,300	1,360
Tractors and Self-Propelled Farm Machinery	10.1	8.6	551	573	640	670
Other Farm Machinery	16.0	12.1	361	376	420	440
Seeds & Plants ¹⁰	31.0	26.8	172	180	200	210
Trucks & Autos	11.6	10.0	852	804	990	940

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Northeast Region, 2001-02¹³**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	83,446	84,851	12,350	12,490
Livestock, Poultry & Related Expenses ⁴	40.7	34.1	4,730	4,688	700	690
Feed	68.2	64.8	15,068	15,082	2,230	2,220
Farm Services ⁵	98.1	96.0	11,824	12,568	1,750	1,850
Rent ⁶	28.7	30.4	1,959	2,106	290	310
Agricultural Chemicals ⁷	51.3	55.2	2,095	2,174	310	320
Fertilizer, Lime & Soil Conditioners ⁷	65.9	57.7	2,973	2,649	440	390
Interest	42.4	46.4	3,986	4,076	590	600
Taxes (Real Estate & Property)	98.0	98.1	4,054	3,940	600	580
Labor	45.2	34.8	11,216	11,685	1,660	1,720
Fuels	93.9	86.6	2,770	2,649	410	390
Farm Supplies & Repairs ⁸	92.8	92.6	6,959	7,201	1,030	1,060
Farm Improvements & Construction ⁹	65.0	61.4	5,878	5,639	870	830
Tractors and Self-Propelled Farm Machinery	17.1	15.6	2,095	2,242	310	330
Other Farm Machinery	31.6	24.0	2,297	2,310	340	340
Seeds & Plants ¹⁰	54.4	53.0	3,514	3,804	520	560
Trucks & Autos	17.6	14.2	1,757	1,698	260	250

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Lake States Region, 2001-02¹³**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	97,933	96,106	20,370	19,990
Livestock, Poultry & Related Expenses ⁴	38.0	29.6	6,490	6,394	1,350	1,330
Feed	65.9	57.9	11,250	11,394	2,340	2,370
Farm Services ⁵	98.1	91.8	12,981	12,933	2,700	2,690
Rent ⁶	42.2	40.1	7,452	7,212	1,550	1,500
Agricultural Chemicals ⁷	53.7	60.0	4,231	4,327	880	900
Fertilizer, Lime & Soil Conditioners ⁷	65.1	59.7	5,000	4,615	1,040	960
Interest	65.9	52.6	6,731	6,250	1,400	1,300
Taxes (Real Estate & Property)	99.8	99.7	4,567	4,471	950	930
Labor	34.6	34.2	8,798	8,606	1,830	1,790
Fuels	92.2	88.7	3,413	3,221	710	670
Farm Supplies & Repairs ⁸	94.1	87.8	7,933	7,452	1,650	1,550
Farm Improvements & Construction ⁹	56.0	48.2	4,423	4,904	920	1,020
Tractors and Self-Propelled Farm Machinery	16.1	18.1	4,038	3,798	840	790
Other Farm Machinery	42.4	26.6	3,029	2,885	630	600
Seeds & Plants ¹⁰	70.0	58.4	5,433	5,673	1,130	1,180
Trucks & Autos	14.8	15.1	1,827	1,635	380	340

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Corn Belt Region, 2001-02 ¹³**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	86,523	84,826	36,210	35,330
Livestock, Poultry & Related Expenses ⁴	27.9	31.4	7,168	7,179	3,000	2,990
Feed	56.2	60.6	9,319	9,196	3,900	3,830
Farm Services ⁵	81.5	96.4	8,602	8,547	3,600	3,560
Rent ⁶	41.2	40.1	14,289	13,854	5,980	5,770
Agricultural Chemicals ⁷	53.2	58.5	5,257	4,994	2,200	2,080
Fertilizer, Lime & Soil Conditioners ⁷	60.3	65.4	6,858	6,218	2,870	2,590
Interest	47.9	54.3	5,114	4,874	2,140	2,030
Taxes (Real Estate & Property)	99.4	99.5	3,799	3,866	1,590	1,610
Labor	30.4	33.5	3,536	3,457	1,480	1,440
Fuels	86.8	87.0	2,628	2,449	1,100	1,020
Farm Supplies & Repairs ⁸	86.0	85.0	4,779	4,730	2,000	1,970
Farm Improvements & Construction ⁹	45.7	51.0	2,987	3,145	1,250	1,310
Tractors and Self-Propelled Farm Machinery	12.6	15.8	3,154	3,313	1,320	1,380
Other Farm Machinery	23.8	24.5	1,697	1,873	710	780
Seeds & Plants ¹⁰	57.3	56.9	5,400	5,354	2,260	2,230
Trucks & Autos	18.7	13.6	1,840	1,681	770	700

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Northern Plains Region, 2001-02 ¹³**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	143,400	137,746	25,640	24,450
Livestock, Poultry & Related Expenses ⁴	32.4	34.5	26,902	25,634	4,810	4,550
Feed	52.8	56.1	12,752	12,169	2,280	2,160
Farm Services ⁵	94.2	96.2	16,443	15,887	2,940	2,820
Rent ⁶	57.4	58.1	16,946	16,620	3,030	2,950
Agricultural Chemicals ⁷	67.3	67.6	6,376	6,085	1,140	1,080
Fertilizer, Lime & Soil Conditioners ⁷	62.3	68.3	8,277	7,718	1,480	1,370
Interest	63.9	63.7	8,445	7,944	1,510	1,410
Taxes (Real Estate & Property)	99.8	99.7	5,705	5,746	1,020	1,020
Labor	40.1	36.3	5,984	5,746	1,070	1,020
Fuels	85.2	87.0	5,872	5,465	1,050	970
Farm Supplies & Repairs ⁸	86.0	86.6	9,060	8,451	1,620	1,500
Farm Improvements & Construction ⁹	49.3	47.2	3,523	3,437	630	610
Tractors and Self-Propelled Farm Machinery	19.6	12.9	4,754	4,451	850	790
Other Farm Machinery	33.7	26.4	3,356	3,324	600	590
Seeds & Plants ¹⁰	66.9	64.8	6,040	6,310	1,080	1,120
Trucks & Autos	26.9	21.6	2,796	2,592	500	460

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Appalachian Region, 2001-02 ¹³**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	45,386	45,977	13,820	14,000
Livestock, Poultry & Related Expenses ⁴	27.0	28.5	4,893	4,729	1,490	1,440
Feed	63.1	68.8	8,998	9,031	2,740	2,750
Farm Services ⁵	94.7	96.8	5,353	5,517	1,630	1,680
Rent ⁶	24.1	25.3	2,463	2,496	750	760
Agricultural Chemicals ⁷	48.1	42.9	1,544	1,511	470	460
Fertilizer, Lime & Soil Conditioners ⁷	76.2	66.2	2,397	2,332	730	710
Interest	26.4	34.1	2,069	2,102	630	640
Taxes (Real Estate & Property)	99.7	98.4	1,215	1,248	370	380
Labor	43.5	39.1	4,138	4,302	1,260	1,310
Fuels	84.3	91.1	1,642	1,609	500	490
Farm Supplies & Repairs ⁸	82.9	89.2	2,562	2,627	780	800
Farm Improvements & Construction ⁹	50.9	49.4	2,102	2,135	640	650
Tractors and Self-Propelled Farm Machinery	14.3	11.8	1,970	2,069	600	630
Other Farm Machinery	20.1	18.3	985	1,018	300	310
Seeds & Plants ¹⁰	42.1	41.6	1,346	1,478	410	450
Trucks & Autos	14.1	13.8	1,576	1,609	480	490

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Average per Farm, Farms Reporting, and Total,
Southeast Region, 2001-02 ¹³**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	73,091	73,112	12,060	12,100
Livestock, Poultry & Related Expenses ⁴	25.0	27.6	4,364	4,411	720	730
Feed	63.4	65.5	14,000	14,199	2,310	2,350
Farm Services ⁵	98.9	95.9	10,242	10,574	1,690	1,750
Rent ⁶	19.5	22.2	1,818	1,873	300	310
Agricultural Chemicals ⁷	45.6	44.8	3,818	3,505	630	580
Fertilizer, Lime & Soil Conditioners ⁷	72.5	72.2	3,758	3,625	620	600
Interest	34.4	36.3	3,273	3,202	540	530
Taxes (Real Estate & Property)	98.4	97.6	1,939	1,873	320	310
Labor	36.8	30.9	11,697	11,964	1,930	1,980
Fuels	90.1	89.6	2,424	2,356	400	390
Farm Supplies & Repairs ⁸	87.1	88.3	4,182	4,230	690	700
Farm Improvements & construction ⁹	53.3	42.7	3,152	2,961	520	490
Tractors and Self-Propelled Farm Machinery	12.2	10.1	2,242	2,175	370	360
Other Farm Machinery	17.7	12.1	1,030	967	170	160
Seeds & Plants ¹⁰	39.0	35.8	2,848	3,082	470	510
Trucks & Autos	17.1	14.8	1,879	1,692	310	280

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Delta Region, 2001-02¹³**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	82,731	80,830	9,845	9,740
Livestock, Poultry & Related Expenses ⁴	38.5	30.3	6,639	6,390	790	770
Feed	74.8	67.8	14,538	14,108	1,730	1,700
Farm Services ⁵	97.4	91.4	12,017	11,784	1,430	1,420
Rent ⁶	31.9	29.6	6,555	6,307	780	760
Agricultural Chemicals ⁷	51.7	40.1	6,050	5,809	720	700
Fertilizer, Lime & Soil Conditioners ⁷	64.2	62.9	4,370	4,232	520	510
Interest	50.0	42.2	3,529	3,568	420	430
Taxes (Real Estate & Property)	97.1	95.5	1,387	1,411	165	170
Labor	40.2	33.9	5,714	5,560	680	670
Fuels	90.9	92.6	3,613	3,402	430	410
Farm Supplies & Repairs ⁸	91.9	82.0	5,462	5,145	650	620
Farm Improvements & Construction ⁹	48.0	42.1	2,773	2,988	330	360
Tractors and Self-Propelled Farm Machinery	14.8	11.5	3,193	2,988	380	360
Other Farm Machinery	29.1	16.9	1,597	1,660	190	200
Seeds & Plants ¹⁰	51.3	43.4	2,941	3,154	350	380
Trucks & Autos	17.0	15.9	2,101	2,158	250	260

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Southern Plains Region, 2001-02 ¹³**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	52,684	49,874	16,490	15,810
Livestock, Poultry & Related Expenses ⁴	33.9	33.7	8,371	8,328	2,620	2,640
Feed	78.9	78.7	6,965	6,467	2,180	2,050
Farm Services ⁵	97.9	94.0	7,668	7,129	2,400	2,260
Rent ⁶	34.0	29.0	3,099	2,871	970	910
Agricultural Chemicals ⁷	52.5	36.4	1,406	1,293	440	410
Fertilizer, Lime & Soil Conditioners ⁷	58.4	54.0	2,492	2,208	780	700
Interest	34.9	36.6	3,131	2,871	980	910
Taxes (Real Estate & Property)	98.8	96.3	1,853	1,893	580	600
Labor	38.6	33.7	3,994	3,754	1,250	1,190
Fuels	75.4	77.9	2,300	2,114	720	670
Farm Supplies & Repairs ⁸	70.9	76.5	3,035	2,744	950	870
Farm Improvements & Construction ⁹	45.2	42.4	2,236	2,271	700	720
Tractors and Self-Propelled Farm Machinery	17.8	10.5	1,757	1,830	550	580
Other Farm Machinery	16.2	15.0	895	820	280	260
Seeds & Plants ¹⁰	42.1	28.3	1,310	1,262	410	400
Trucks & Autos	19.3	13.7	2,013	1,893	630	600

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Mountain Region, 2001-02¹³**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	116,026	116,806	15,095	15,360
Livestock, Poultry & Related Expenses ⁴	29.8	40.0	14,374	14,297	1,870	1,880
Feed	62.7	62.3	14,143	14,221	1,840	1,870
Farm Services ⁵	98.9	95.0	17,679	18,403	2,300	2,420
Rent ⁶	43.4	41.0	7,917	7,985	1,030	1,050
Agricultural Chemicals ⁷	37.6	42.2	3,151	3,118	410	410
Fertilizer, Lime & Soil Conditioners ⁷	39.8	40.6	4,535	4,411	590	580
Interest	58.1	46.5	8,378	8,061	1,090	1,060
Taxes (Real Estate & Property)	98.5	97.3	3,344	3,422	435	450
Labor	40.7	38.4	13,759	13,992	1,790	1,840
Fuels	85.3	81.7	4,766	4,487	620	590
Farm Supplies & Repairs ⁸	79.4	85.3	7,456	7,681	970	1,010
Farm Improvements & Construction ⁹	56.1	56.4	5,150	5,247	670	690
Tractors and Self-Propelled Farm Machinery	13.9	15.1	3,536	3,574	460	470
Other Farm Machinery	16.1	18.3	1,845	1,749	240	230
Seeds & Plants ¹⁰	32.1	36.0	2,844	3,118	370	410
Trucks & Autos	20.8	18.1	2,921	2,814	380	370

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Pacific Region, 2001-02 ¹³**

Expenditure - Farm Share	Farms Reporting ¹¹		Average per Farm ¹²		Total Expenditures	
	2001	2002	2001	2002	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Dollars</i>	<i>Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	199,521	195,915	33,320	32,130
Livestock, Poultry & Related Expenses ⁴	22.5	27.0	6,886	6,585	1,150	1,080
Feed	53.1	47.6	19,461	19,512	3,250	3,200
Farm Services ⁵	99.5	97.8	38,683	38,720	6,460	6,350
Rent ⁶	26.9	19.7	10,299	10,244	1,720	1,680
Agricultural Chemicals ⁷	56.7	57.7	8,383	7,683	1,400	1,260
Fertilizer, Lime & Soil Conditioners ⁷	51.5	53.1	7,365	6,646	1,230	1,090
Interest	44.5	44.3	10,180	9,695	1,700	1,590
Taxes (Real Estate & Property)	98.0	99.4	5,210	5,183	870	850
Labor	54.8	52.0	52,395	52,073	8,750	8,540
Fuels	84.9	85.1	4,551	4,268	760	700
Farm Supplies & Repairs ⁸	87.9	84.7	14,132	12,927	2,360	2,120
Farm Improvements & Construction ⁹	50.3	47.4	7,605	8,049	1,270	1,320
Tractors and Self-Propelled Farm Machinery	10.4	12.0	3,114	3,110	520	510
Other Farm Machinery	18.9	10.8	1,437	1,402	240	230
Seeds & Plants ¹⁰	33.1	34.6	7,186	7,073	1,200	1,160
Trucks & Autos	12.4	13.4	2,036	2,134	340	350

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Total,
United States, 1997-2002 ¹**

Expenditure - Farm Share	1997	1998	1999	2000	2001	2002
	<i>Million Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Farm Production Expenditures ^{2 3}	183,180	183,150	184,050	189,600	195,200	191,400
Livestock, Poultry & Related Expenses ⁴	14,200	14,500	16,800	18,000	18,500	18,100
Feed	26,300	25,000	24,500	24,500	24,800	24,500
Farm Services ⁵	24,700	25,000	25,700	25,400	26,900	26,800
Rent ⁶	18,470	17,300	15,900	16,100	16,400	16,000
Agricultural Chemicals ⁷	9,000	9,000	8,600	8,500	8,600	8,200
Fertilizer, Lime & Soil Conditioners ⁷	10,900	10,600	9,900	10,000	10,300	9,500
Interest	10,500	10,800	10,700	10,900	11,000	10,500
Taxes (Real Estate & Property)	6,650	6,800	6,800	6,900	6,900	6,900
Labor	18,300	19,000	19,700	20,700	21,700	21,500
Fuels	6,000	5,400	5,300	7,000	6,700	6,300
Farm Supplies & Repairs ⁸	12,300	12,200	12,600	12,400	12,700	12,200
Farm Improvements & Construction ⁹	6,100	6,450	7,100	8,400	7,800	8,000
Tractors and Self-Propelled Farm Machinery	5,400	6,000	5,400	5,400	6,200	6,200
Other Farm Machinery	3,410	3,550	3,500	3,600	3,700	3,700
Seeds & Plants ¹⁰	6,700	7,200	7,200	7,500	8,200	8,400
Trucks & Autos	3,800	4,000	3,900	4,000	4,300	4,100

See footnotes on page 28.

**Farm Production Expenditures:
Major Input Items, Percent of Total,
United States, 1997-2002 ¹**

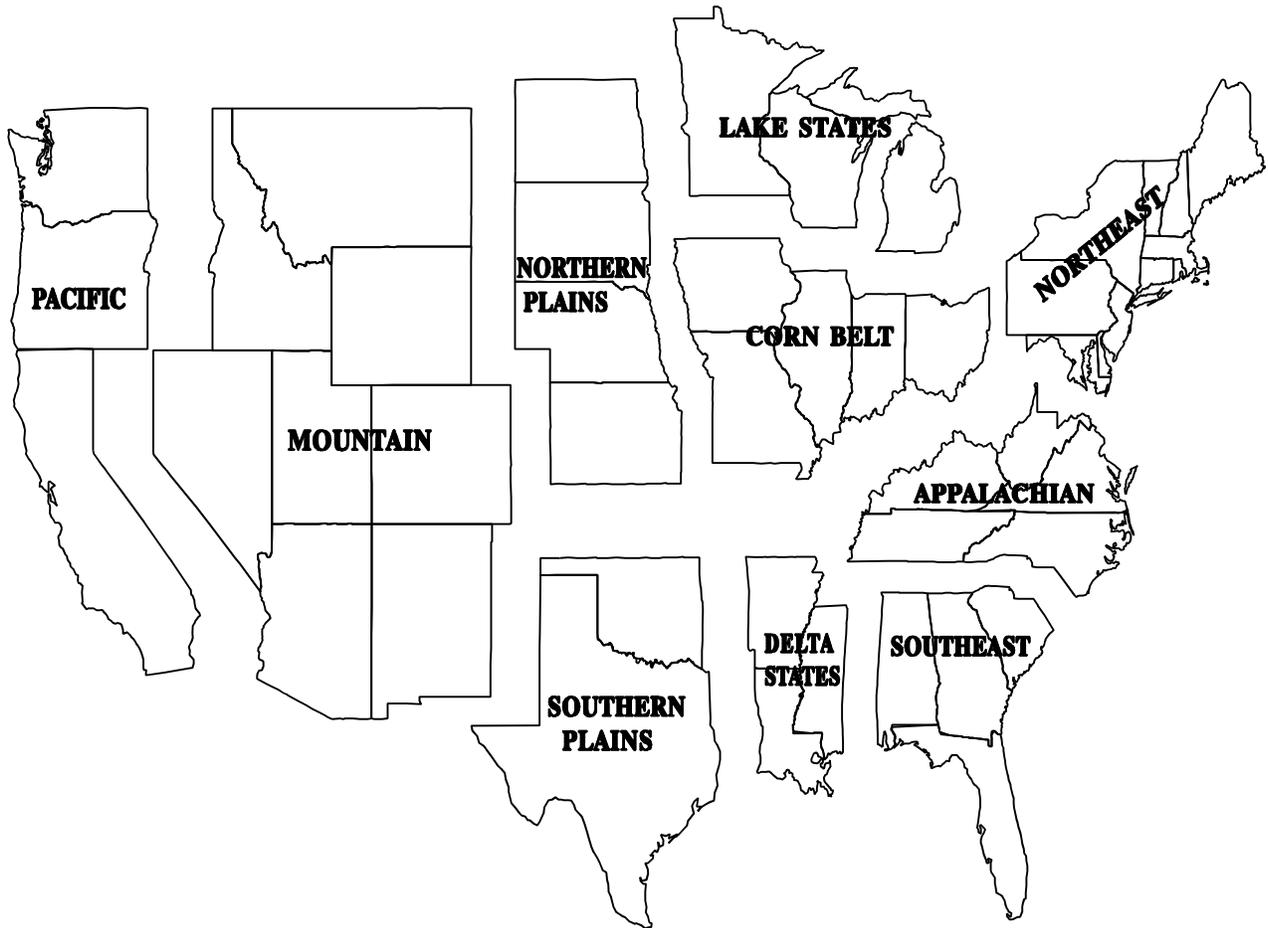
Expenditure - Farm Share	1997	1998	1999	2000	2001	2002
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Total Farm Production Expenditures ^{2 3}	100.0	100.0	100.0	100.0	100.0	100.0
Livestock, Poultry & Related Expenses ⁴	7.8	7.9	9.1	9.5	9.5	9.5
Feed	14.4	13.7	13.3	12.9	12.7	12.8
Farm Services ⁵	13.5	13.7	14.0	13.4	13.8	14.0
Rent ⁶	10.1	9.4	8.6	8.5	8.4	8.4
Agricultural Chemicals ⁷	4.9	4.9	4.7	4.5	4.4	4.3
Fertilizer, Lime & Soil Conditioners ⁷	6.0	5.8	5.4	5.3	5.3	5.0
Interest	5.7	5.9	5.8	5.7	5.6	5.5
Taxes (Real Estate & Property)	3.6	3.7	3.7	3.6	3.5	3.6
Labor	10.0	10.4	10.7	10.9	11.1	11.2
Fuels	3.3	2.9	2.9	3.7	3.4	3.3
Farm Supplies & Repairs ⁸	6.7	6.7	6.8	6.5	6.5	6.4
Farm Improvements & Construction ⁹	3.3	3.5	3.9	4.4	4.0	4.2
Tractors and Self-Propelled Farm Machinery	2.9	3.3	2.9	2.8	3.2	3.2
Other Farm Machinery	1.9	1.9	1.9	1.9	1.9	1.9
Seeds & Plants ¹⁰	3.7	3.9	3.9	4.0	4.2	4.4
Trucks & Autos	2.1	2.2	2.1	2.1	2.2	2.1

See footnotes on page 28.

Footnotes

- ¹ Excludes AK and HI.
- ² Total includes production costs not allocated to any of the 16 expense categories published.
- ³ Includes landlord and contractor share of farm production expenses.
- ⁴ Includes purchases and leasing of livestock and poultry.
- ⁵ Includes all crop custom work, veterinary services, custom feeding, transportation costs, marketing charges, insurance, leasing of machinery and equipment, miscellaneous business expenses, and utilities.
- ⁶ Includes public and private grazing fees.
- ⁷ Includes material and application costs.
- ⁸ Includes bedding and litter, marketing containers, power farm shop equipment, miscellaneous non-capital equipment and supplies, repairs and maintenance of livestock and poultry equipment, and capital equipment for livestock and poultry.
- ⁹ Includes all expenditures related to new construction or repairs of buildings and fences, and any improvements to physical structures of land.
- ¹⁰ Excludes bedding plants, nursery stock, and seed purchased for resale. Includes seed treatment.
- ¹¹ Number of farms reporting item divided by total number of farms.
- ¹² Total expenditures divided by total number of farms.
- ¹³ Regions consist of the following States:
 - Northeast: CT, DE, ME, MD, MA, NH, NJ, NY, PA, RI, VT;
 - Lake States: MI, MN, WI;
 - Corn Belt: IL, IN, IA, MO, OH;
 - Northern Plains: KS, NE, ND, SD;
 - Appalachian: KY, NC, TN, VA, WV;
 - Southeast: AL, FL, GA, SC;
 - Delta: AR, LA, MS;
 - Southern Plains: OK, TX;
 - Mountain: AZ, CO, ID, MT, NV, NM, UT, WY;
 - Pacific: CA, OR, WA.See next page for regional map.

Farm Production Expenditure Regions



Program History, Procedures, and Reliability

Program History: The National Agricultural Statistics Service (NASS) initiated an estimation program in calendar year 1993 for farm production expenditures. Farm Production Expenditure publications for prior years included only survey indications for expenditures at the U.S. level and other geographic, size, and type of farm levels. Currently estimates are published based on survey indications and other check data for major groupings of farm production expenses for the U.S., 10 Farm Production Regions, 7 U.S. Economic Sales Classes, and U.S. Crop and Livestock Farms. Previous year's data are subject to revision as additional survey indications and check data become available.

One of the primary uses of farm production expenditure data is for weighting in the construction of Prices Paid Indexes. In early 1995, NASS completed a revision of the indexes which included changes in the structure of components estimated and subsequently, the relative weights used in the construction of the indexes. Changes were made in an effort to simplify updating component items and also to establish more appropriate weights for the series. In a combined effort to facilitate this process, changes were made in component items estimated in this publication. The changes include: 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 the category Building and Fencing along with Farm and Land Improvements were combined into one category called Farm Improvements and Construction. Estimates for these levels were revised back to 1990 at the U.S. level to provide a more useful series for data users.

In 1996, the Agricultural Resource Management Study (ARMS) was developed by combining the previous Farm Costs and Returns Survey (FCRS) and the Cropping Practice Survey (CPS). The initiative to combine these surveys came from a growing interest in tying the resources used in agricultural production and the farm financial information to the relationships between various production practices and farm financial conditions; and the need to improve the efficiency of data collection by combining identical information collected in both the CPS and the FCRS into one survey. Because of the variety of issues needing to be addressed with ARMS, it was designed with a flexible structure that allowed different questionnaire versions to focus more specifically on topics of interest. The ARMS is conducted in three phases. Survey phases one and two screens for farms with specific commodities of interest and collect agricultural production, resource use, and cost of production information. The third phase of the survey collects farm production expenditure data similar to the earlier FCRS.

In 2002, the U.S. Economic Sales Classes have been updated to be consistent with other NASS economic publications and to provide a more in-depth look at expenditures estimates by gross value of sales. The 2001 expenditure estimates have been updated using the new Economic Sales Classes to provide an historical reference. The new 7 U.S. Economic Sales Classes are as follows: Gross Value of Sales, \$1,000,000 and Over; Gross Value of Sales, \$500,000 - \$999,999; Gross Value of Sales, \$250,000 - \$499,999; Gross Value of Sales, \$100,000 - \$249,999; Gross Value of Sales, \$50,000 - \$99,999; Gross Value of Sales, \$10,000 - \$49,999; Gross Value of Sales, Less Than \$10,000. The 5 U.S. Economic Sales Classes used in previous reports were as follows: Gross Value of Sales, \$250,000 and Over; Gross Value of Sales, \$100,000 - \$249,999; Gross Value of Sales, \$40,000 - \$99,999; Gross Value of Sales, \$10,000 - \$39,999; Gross Value of Sales, Less Than \$10,000.

Survey Procedures: The farm production expenditure data contained in this publication are the result of a sample survey of approximately 18,219 farms and ranches contacted in February through April 2003 in all States except Alaska and Hawaii. The Agricultural Resource Management Study covers the population of farms in the 48 contiguous States defined as "all establishments which sold or would normally have sold at least \$1,000 of agricultural products during the previous year". These establishments include not only traditional agricultural operations such as grain farms and ranching operations, but also specialty farms such as orchards, nurseries, and those producing fish in captivity.

The Agricultural Resource Management Study is a multiple frame survey which utilizes a list frame and a complementary area frame. 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 smaller 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 be certain that an operation is only included in the data expansions once. These multiple frame expansions are unbiased and provide more precise expansions than could be obtained by using the area frame alone.

Special training occurs prior to the Agricultural Resource Management Study period to ensure consistent and proper execution of survey procedures in farm determination, data collection, and editing of detailed expense and income data.

Field and office staff edit data using hand and machine edit procedures. Questionnaires are reviewed for consistency, data relationships, and completeness. Past analysis has shown approximately half of the edits simply correct for data misplacement errors. In cases where respondents are unable or unwilling to report data for any item on the questionnaire, the field enumerators or survey statisticians can impute a value. For income, related debt/asset data, and a few expense items statisticians are allowed to enter a (-1) to indicate a missing value and an algorithm within the edit will compute and input the missing value based on similar size and type of operations. The computer generated imputation has not been implemented for all expenditure data because NASS analysis has shown there are significantly fewer missing data cells on expenses than on income. Missing values for expense items, where no data are reported, are edited to a positive value based on other reported values from similar operations by the survey statistician.

Data Comparability: This publication includes estimates for 2001 and 2002 farm production expenditures for the U.S., 10 Farm Production Expenditure Regions, 7 Economic Sales Classes, and Crop and Livestock Farms. Total expenditures and expenses for major input items at the U.S. level are provided back through 1997 to provide data users a comparable data series. Expenditures for the 7 Economic Sales Classes are only available for 2001 and 2002.

Some of the expenditure estimates published in this report will differ from production expense estimates published in the Economic Research Service's "Farm Business Economics Report". The Economic Research Service (ERS), the agency responsible for estimates of farm income, treats agriculture as a sector in the U.S. economy while the National Agricultural Statistics Service is interested in annual production expenditures as a cash outlay to farming operations.

In most cases, items that would be considered cash farm operating expenditures are estimated the same by both agencies (NASS and ERS) with the estimates established by a joint national board. This would include production inputs such as feed, seed, fertilizer, chemicals, and labor. There is a major difference in accounting between NASS and ERS for reporting capital expenditures. NASS considers capital expenditures such as purchases of vehicles and construction of buildings as a cash outlay for the farming operation while ERS recognizes the contribution of the expenditure as a depreciable asset to the farm sector. NASS interest expense includes the reported farm share of the household and excludes landlord interest expenditures. ERS excludes the nonfarm share of interest expense but includes landlord interest expense. An additional difference in methodology exists for livestock & poultry expenditures. ERS does not include farm to farm sales of livestock as this would not be a cost to the sector account -- only an expense to the farm making the purchase and income to the farm making the sale.

Data Reliability: Two types of errors, sampling and nonsampling, are possible in an estimate based on a sample survey. Both types affect the "precision" of the estimates. Sampling error occurs because a complete census is not taken. The sampling error measures the variation in estimates from the average of all possible samples. An estimate of 100 with a sampling error of 1 would mean that chances are 19 out of 20 that the estimates from all possible samples averaged together would be between 98 and 102, which is the survey estimate plus or minus two times the sampling error. The sampling error expressed as a percent of the estimate is called the relative sampling error.

For 2002 total expenditures, the relative sampling errors were as follows for the different domains estimated: at the U.S. level 1.5 percent; from 2.7 to 8.5 percent at the Regional level; from 2.5 to 4.7 percent at the U.S. Economic Sales Class level; 2.1 percent for Crop Farms; 2.5 percent for Livestock Farms. For 2001 total expenditures, the relative sampling errors were as follows for the different domains estimated: at the U.S. level 2.2 percent; from 3.2 to 8.4 percent at the Regional level; from 1.4 to 6.7 percent at the U.S. Economic Sales Class level; 3.0 percent for Crop Farms; 3.8 percent for Livestock Farms. The relative sampling errors for major expense items at the U.S. level typically range from 3.3 to 10.5 percent.

Data from sample surveys are also influenced by non-sampling errors which are not always measurable or known. Non-sampling errors may be introduced by enumerators, respondents, questionnaire design, or field and office procedures. Efforts are made to minimize these errors and maintain survey accuracy through proper training of all individuals involved with the survey, detailed review and verification of data, and analysis of data for comparability and consistency.

Released July 17, 2003, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, U.S. Department of Agriculture. For information on "*Farm Production Expenditures 2002 Summary*" call Scott Cox at 202-690-3347, office hours 7:30 a.m. to 4:00 p.m. ET.

The next "*Farm Production Expenditures 2003 Summary*" report will be released in July 2004.

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