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Farm Production Expenditures 2003 Summary

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Farm Production Expenditures up 3.0 Percent in 2003

U.S. farm production expenditures totaled \$198.9 billion in 2003, up 3.0 percent from the revised 2002 total of \$193.1 billion. The largest contributors to the increase were farm improvements and construction up, 43.8 percent; feed, up 8.4 percent; trucks and autos, up 7.1 percent and other farm machinery up, 5.4 percent. These increases were partially offset by decreases in interest, down 11.4 percent; farm supplies and repairs, down 9.8 percent; and labor, down 1.4 percent. The largest two expenditure categories were feed, which accounted for 13.6 percent of the U.S. total production expenses, and farm services which accounted for 13.5 percent of the U.S. total production expenses. 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 2003 were \$93,785 compared to \$89,722 as revised for 2002. On the average, U.S. farm operations in 2003 spent \$12,731 on feed; \$12,637 on farm services; \$9,996 on labor; \$8,959 on livestock and poultry purchases; and \$7,733 on rent. Revised estimates for 2002 indicated U.S. farms spent an average of \$11,570 on feed; \$12,452 on farm services; \$9,990 on labor; \$8,503 on livestock and poultry purchases; and \$7,527 on rent.

The Farm Production Region (as defined on page 33) contributing most to the total 2003 U.S. farm production expenditures was the Corn Belt, with expenses of \$35.8 billion, 18.0 percent of the U.S. total. Expenditures in the Corn Belt were up 1.6 percent from the 2002 level of \$35.2 billion. In total expenditures, the Corn Belt was followed by the Pacific Region at \$32.3 billion (2002 - \$32.0 billion); Northern Plains at \$26.1 billion (2002 - \$24.2 billion); Lake States at \$19.3 billion (2002 - \$19.1 billion); and the Southern Plains at \$17.2 billion (2002 - \$14.5 billion).

The U.S. Economic Class (as defined on page 1) contributing most to the 2003 U.S. farm production expenditures was the \$1,000,000 and Over class, with expenses of \$67.6 billion, 34.0 percent of the U.S. total. Expenditures in the \$1,000,000 and Over class were up 13.4 percent from the 2002 level of \$59.6 billion. In total expenditures, the \$1,000,000 and Over class was followed by the \$500,000 - \$999,999 class at \$32.0 billion (2002 - \$30.2 billion); \$250,000 - \$499,999 class at \$29.9 billion (2002 - \$33.1 billion).

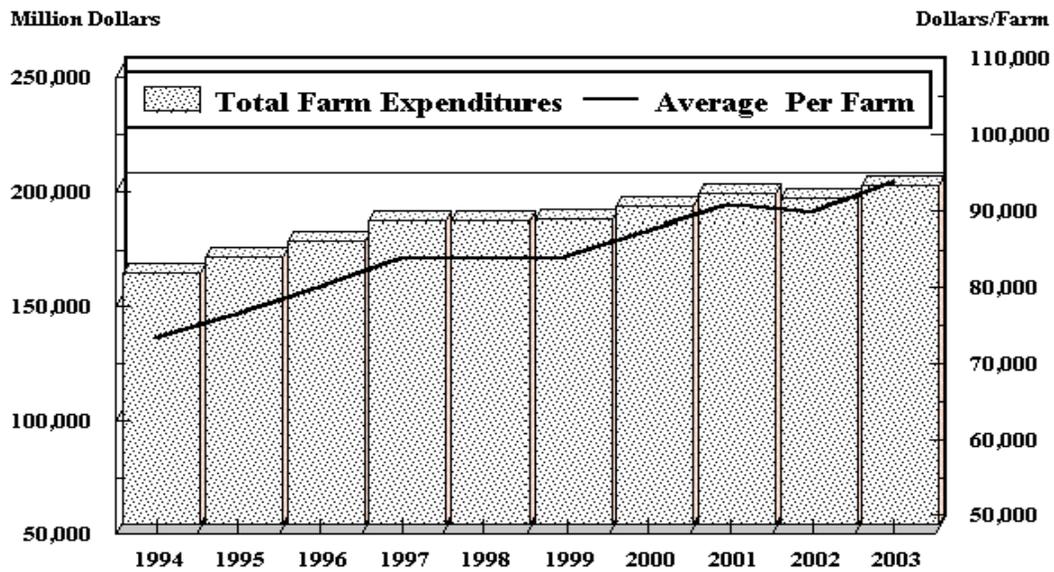
The 2003 Farm Production Expenditures report has two significant changes from prior years:

- The farm improvements and construction expenditure category now includes expenses for the operator's dwelling provided the dwelling is owned by the operation. This inclusion started with the 2003 data series and provides more comprehensive information on farm improvements and construction expenses.
- Detailed fuels expenditure sub-components are published for the first time for the different domains that are estimated. The sub-components of the fuels expenditure category include the following items: diesel, gas, LP gas, and other gas.

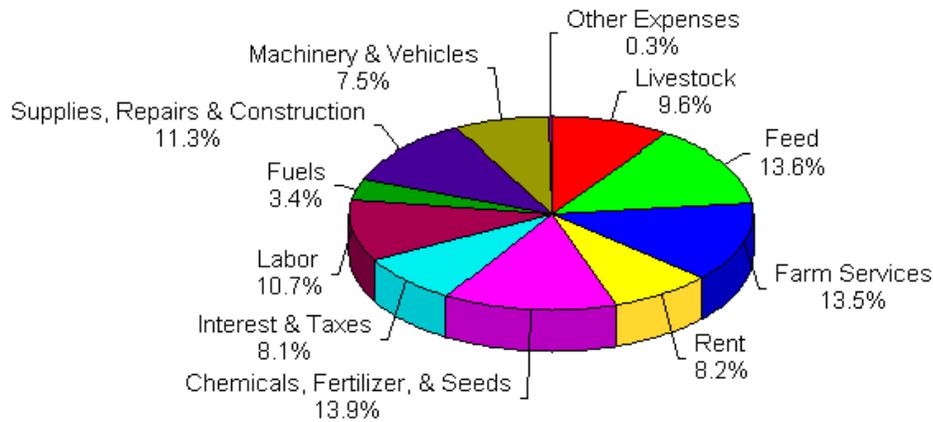
Farm Production Expenditures up 3.0 Percent in 2003 (cont)

Expenditure estimates by Type of Farm reveal that Crop Farms, with expenses of \$102.6 billion, contributed 51.6 percent of the 2003 U.S. farm production expenditures. Expenditures for Crop Farms were up 2.7 percent from the revised 2002 level of \$99.9 billion. Livestock Farm expenses of \$96.3 billion were up 3.3 percent from the revised 2002 level of \$93.2 billion.

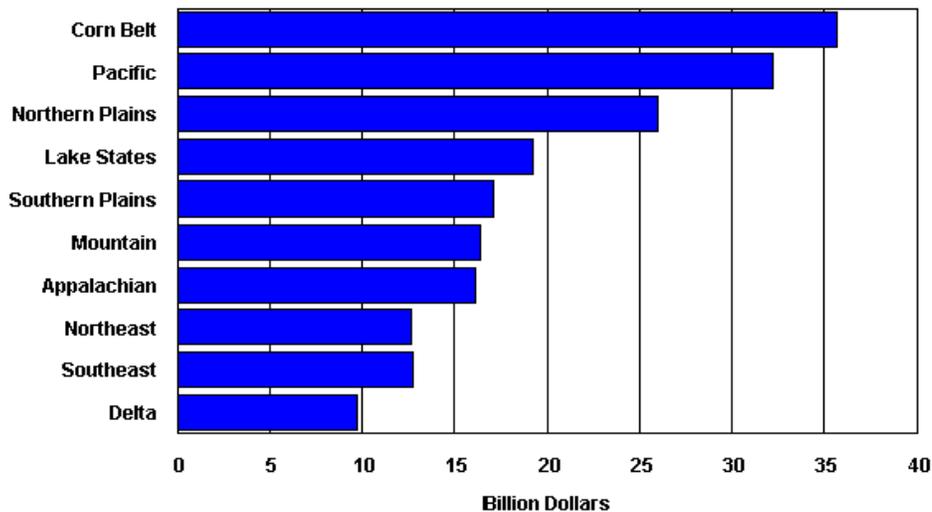
U.S. Farm Production Expenditures Total and Average Per Farm, 1994-03



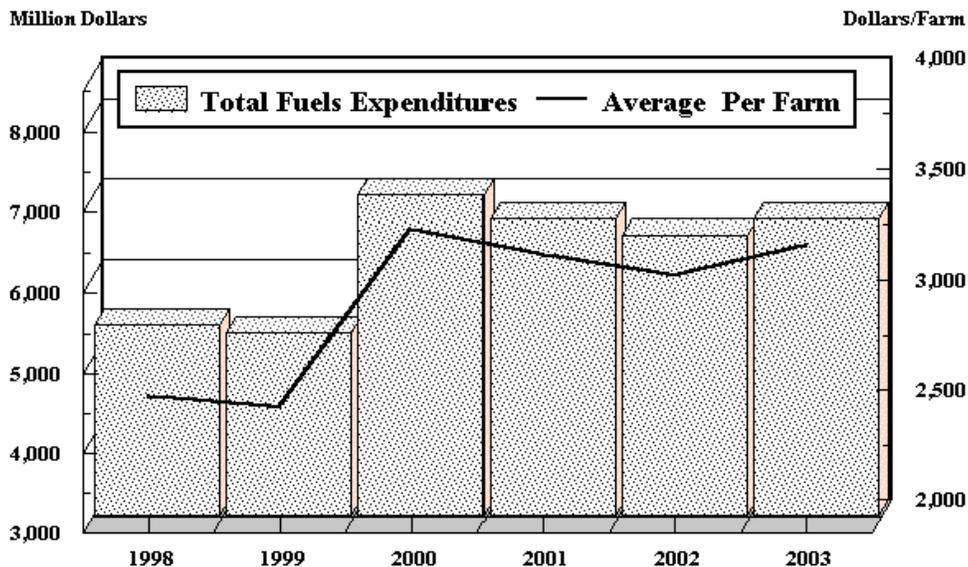
Farm Production Expenditures By Major Input Items, Percent of Total United States, 2003



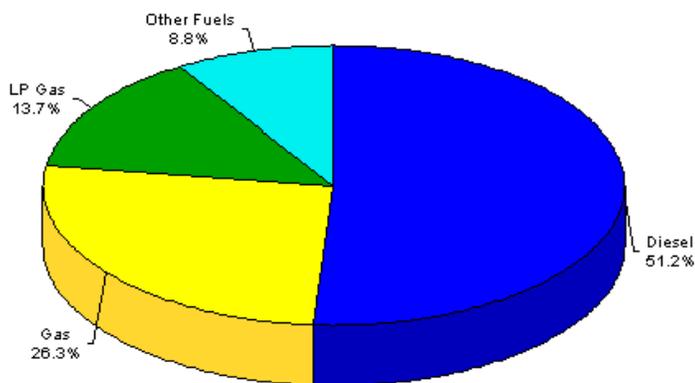
US Farm Production Expenditures By Farm Production Regions, 2003



U.S. Fuels Production Expenditures Total and Average Per Farm, 1998-03



Fuels Production Expenditures By Sub-Components, Percent of Total United States, 2003



**Farm Production Expenditures:
Major Input Items, Total and Percent of Total,
United States, 2002-03 ¹**

Expenditure - Farm Share	2002		2003	
	<i>Million Dollars</i>	<i>Percent</i>	<i>Million Dollars</i>	<i>Percent</i>
Total Farm Production Expenditures ^{2 3}	193,100	100.0	198,900	100.0
Livestock, Poultry & Related Expenses ⁴	18,300	9.5	19,000	9.6
Feed	24,900	12.9	27,000	13.6
Farm Services ⁵	26,800	13.9	26,800	13.5
Rent ⁶	16,200	8.4	16,400	8.2
Agricultural Chemicals ⁷	8,300	4.3	8,400	4.2
Fertilizer, Lime & Soil Conditioners ⁷	9,600	5.0	10,000	5.0
Interest	10,500	5.4	9,300	4.7
Taxes (Real Estate & Property)	6,800	3.5	6,800	3.4
Labor	21,500	11.1	21,200	10.7
Fuels	6,500	3.4	6,700	3.4
Farm Supplies & Repairs ⁸	12,200	6.3	11,000	5.5
Farm Improvements & Construction ^{9 10}	8,000	4.1	11,500	5.8
Tractors and Self-Propelled Farm Machinery	6,200	3.2	6,500	3.3
Other Farm Machinery	3,700	1.9	3,900	2.0
Seeds & Plants ¹¹	8,900	4.6	9,300	4.7
Trucks & Autos	4,200	2.2	4,500	2.3

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
United States, 2002-03¹**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	89,722	93,785	193,100	198,900
Livestock, Poultry & Related Expenses ⁴	31.4	30.5	8,503	8,959	18,300	19,000
Feed	64.0	65.4	11,570	12,731	24,900	27,000
Farm Services ⁵	95.3	95.3	12,452	12,637	26,800	26,800
Rent ⁶	33.7	30.3	7,527	7,733	16,200	16,400
Agricultural Chemicals ⁷	50.6	48.2	3,857	3,961	8,300	8,400
Fertilizer, Lime & Soil Conditioners ⁷	60.9	58.1	4,461	4,715	9,600	10,000
Interest	45.6	42.0	4,879	4,385	10,500	9,300
Taxes (Real Estate & Property)	98.3	98.8	3,160	3,206	6,800	6,800
Labor	36.2	34.3	9,990	9,996	21,500	21,200
Fuels	86.4	84.4	3,020	3,159	6,500	6,700
Farm Supplies & Repairs ⁸	85.3	84.5	5,669	5,187	12,200	11,000
Farm Improvements & Construction ^{9 10}	48.6	57.2	3,717	5,422	8,000	11,500
Tractors and Self-Propelled Farm Machinery	13.4	22.3	2,881	3,065	6,200	6,500
Other Farm Machinery	19.8	27.7	1,719	1,839	3,700	3,900
Seeds & Plants ¹¹	45.7	45.4	4,135	4,385	8,900	9,300
Trucks & Autos	14.9	24.2	1,951	2,122	4,200	4,500

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Crop Farms, United States, 2002-03 ¹**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	110,104	121,569	99,930	102,580
Livestock, Poultry & Related Expenses ⁴	14.3	14.4	1,972	2,145	1,790	1,810
Feed	26.0	27.8	1,730	1,896	1,570	1,600
Farm Services ⁵	92.1	91.9	16,825	18,132	15,270	15,300
Rent ⁶	37.5	34.7	13,751	15,738	12,480	13,280
Agricultural Chemicals ⁷	64.7	61.3	7,834	8,651	7,110	7,300
Fertilizer, Lime & Soil Conditioners ⁷	69.4	68.1	8,142	9,196	7,390	7,760
Interest	48.2	44.7	5,928	5,570	5,380	4,700
Taxes (Real Estate & Property)	98.5	98.8	4,110	4,266	3,730	3,600
Labor	41.4	37.1	16,770	17,777	15,220	15,000
Fuels	84.5	81.0	4,352	4,740	3,950	4,000
Farm Supplies & Repairs ⁸	81.1	81.2	7,735	7,632	7,020	6,440
Farm Improvements & Construction ^{9 10}	42.3	52.5	3,989	6,352	3,620	5,360
Tractors and Self-Propelled Farm Machinery	15.2	24.4	3,878	4,266	3,520	3,600
Other Farm Machinery	20.5	30.4	2,160	2,489	1,960	2,100
Seeds & Plants ¹¹	61.7	64.2	8,528	9,718	7,740	8,200
Trucks & Autos	14.3	27.3	1,972	2,489	1,790	2,100

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Livestock Farms, United States, 2002-03 ¹**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	74,859	75,427	93,170	96,320
Livestock, Poultry & Related Expenses ⁴	43.8	41.2	13,265	13,461	16,510	17,190
Feed	91.3	90.2	18,745	19,890	23,330	25,400
Farm Services ⁵	97.7	97.5	9,264	9,005	11,530	11,500
Rent ⁶	31.0	27.5	2,989	2,443	3,720	3,120
Agricultural Chemicals ⁷	40.5	39.5	956	861	1,190	1,100
Fertilizer, Lime & Soil Conditioners ⁷	54.8	51.5	1,776	1,754	2,210	2,240
Interest	43.8	40.2	4,114	3,602	5,120	4,600
Taxes (Real Estate & Property)	98.2	98.8	2,467	2,506	3,070	3,200
Labor	32.5	32.5	5,046	4,855	6,280	6,200
Fuels	87.7	86.6	2,049	2,114	2,550	2,700
Farm Supplies & Repairs ⁸	88.4	86.6	4,162	3,571	5,180	4,560
Farm Improvements & Construction ^{9 10}	53.1	60.2	3,519	4,808	4,380	6,140
Tractors and Self-Propelled Farm Machinery	12.1	20.9	2,153	2,271	2,680	2,900
Other Farm Machinery	19.3	25.9	1,398	1,410	1,740	1,800
Seeds & Plants ¹¹	34.2	33.0	932	861	1,160	1,100
Trucks & Autos	15.4	22.2	1,936	1,879	2,410	2,400

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Economic Class Gross Sales \$1,000,000 and Over, United States, 2002-03 ¹**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	2,285,057	2,361,888	59,640	67,550
Livestock, Poultry & Related Expenses ⁴	59.1	54.8	305,747	350,699	7,980	10,030
Feed	64.7	62.5	442,912	485,315	11,560	13,880
Farm Services ⁵	100.0	99.9	315,709	289,161	8,240	8,270
Rent ⁶	60.1	65.1	106,897	136,364	2,790	3,900
Agricultural Chemicals ⁷	79.0	83.1	77,011	74,126	2,010	2,120
Fertilizer, Lime & Soil Conditioners ⁷	69.7	72.7	70,498	80,070	1,840	2,290
Interest	86.6	79.0	78,927	62,937	2,060	1,800
Taxes (Real Estate & Property)	97.3	97.2	28,352	31,818	740	910
Labor	89.7	90.6	443,678	417,832	11,580	11,950
Fuels	97.5	98.0	53,640	57,343	1,400	1,640
Farm Supplies & Repairs ⁸	97.6	98.6	116,092	103,147	3,030	2,950
Farm Improvements & Construction ^{9 10}	76.1	85.0	78,927	67,832	2,060	1,940
Tractors and Self-Propelled Farm Machinery	36.5	50.7	29,119	36,014	760	1,030
Other Farm Machinery	36.2	46.6	17,625	26,573	460	760
Seeds & Plants ¹¹	66.0	71.7	97,318	111,888	2,540	3,200
Trucks & Autos	34.0	53.9	13,793	22,378	360	640

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Economic Class Gross Sales \$500,000 - \$999,999, United States, 2002-03 ¹**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	706,542	718,876	30,240	31,990
Livestock, Poultry & Related Expenses ⁴	52.5	47.0	75,000	64,270	3,210	2,860
Feed	60.7	57.3	108,879	100,225	4,660	4,460
Farm Services ⁵	99.3	100.0	92,523	88,539	3,960	3,940
Rent ⁶	70.5	75.1	74,299	78,652	3,180	3,500
Agricultural Chemicals ⁷	82.1	86.7	37,150	40,225	1,590	1,790
Fertilizer, Lime & Soil Conditioners ⁷	78.0	81.6	37,383	41,798	1,600	1,860
Interest	85.8	83.8	33,411	31,236	1,430	1,390
Taxes (Real Estate & Property)	98.5	98.0	15,654	16,629	670	740
Labor	84.2	87.0	71,495	76,854	3,060	3,420
Fuels	97.2	98.2	25,000	27,416	1,070	1,220
Farm Supplies & Repairs ⁸	97.5	99.3	37,617	39,101	1,610	1,740
Farm Improvements & Construction ^{9 10}	75.4	81.3	22,430	28,989	960	1,290
Tractors and Self-Propelled Farm Machinery	33.3	50.7	20,561	21,124	880	940
Other Farm Machinery	40.4	52.5	12,383	14,607	530	650
Seeds & Plants ¹¹	76.5	79.7	33,178	38,427	1,420	1,710
Trucks & Autos	34.5	47.4	8,411	8,764	360	390

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Economic Class Gross Sales \$250,000 - \$499,999, United States, 2002-03 ¹**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	371,380	345,718	33,090	29,870
Livestock, Poultry & Related Expenses ⁴	45.7	42.2	30,864	23,148	2,750	2,000
Feed	58.2	55.7	34,343	32,176	3,060	2,780
Farm Services ⁵	100.0	100.0	47,924	47,454	4,270	4,100
Rent ⁶	81.3	77.5	49,495	46,296	4,410	4,000
Agricultural Chemicals ⁷	88.7	88.3	20,988	20,949	1,870	1,810
Fertilizer, Lime & Soil Conditioners ⁷	90.3	86.8	23,569	24,884	2,100	2,150
Interest	84.1	80.4	19,641	17,708	1,750	1,530
Taxes (Real Estate & Property)	98.3	98.5	11,560	11,227	1,030	970
Labor	82.3	75.8	31,538	28,472	2,810	2,460
Fuels	99.4	96.0	13,692	13,542	1,220	1,170
Farm Supplies & Repairs ⁸	99.0	99.0	24,579	19,676	2,190	1,700
Farm Improvements & Construction ^{9 10}	72.8	77.9	13,692	14,352	1,220	1,240
Tractors and Self-Propelled Farm Machinery	29.5	46.9	13,468	12,037	1,200	1,040
Other Farm Machinery	43.0	52.3	7,969	6,019	710	520
Seeds & Plants ¹¹	86.9	87.9	21,661	20,486	1,930	1,770
Trucks & Autos	28.9	47.4	5,612	6,481	500	560

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Economic Class Gross Sales \$100,000 - \$249,999, United States, 2002-03 ¹**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	171,459	169,880	32,440	28,370
Livestock, Poultry & Related Expenses ⁴	40.1	41.2	11,734	10,958	2,220	1,830
Feed	61.7	61.1	14,588	15,689	2,760	2,620
Farm Services ⁵	100.0	100.0	24,154	24,551	4,570	4,100
Rent ⁶	77.6	73.5	20,455	19,401	3,870	3,240
Agricultural Chemicals ⁷	86.2	85.2	9,249	8,982	1,750	1,500
Fertilizer, Lime & Soil Conditioners ⁷	88.3	86.6	11,311	11,677	2,140	1,950
Interest	78.1	72.6	10,835	9,760	2,050	1,630
Taxes (Real Estate & Property)	97.8	98.3	7,241	6,826	1,370	1,140
Labor	68.4	64.3	12,104	11,437	2,290	1,910
Fuels	98.2	96.8	7,135	7,305	1,350	1,220
Farm Supplies & Repairs ⁸	98.2	98.1	13,161	11,737	2,490	1,960
Farm Improvements & Construction ^{9 10}	61.4	72.4	5,603	8,922	1,060	1,490
Tractors and Self-Propelled Farm Machinery	23.4	34.8	6,237	4,970	1,180	830
Other Farm Machinery	37.2	45.0	3,753	3,832	710	640
Seeds & Plants ¹¹	84.6	84.4	9,778	9,042	1,850	1,510
Trucks & Autos	24.3	40.3	3,753	4,251	710	710

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Economic Class Gross Sales \$50,000 - \$99,999, United States, 2002-03 ¹**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	67,252	70,970	11,870	12,370
Livestock, Poultry & Related Expenses ⁴	36.4	36.5	3,966	4,991	700	870
Feed	61.4	60.5	4,193	5,795	740	1,010
Farm Services ⁵	99.9	99.5	10,538	11,991	1,860	2,090
Rent ⁶	59.5	62.6	6,402	5,737	1,130	1,000
Agricultural Chemicals ⁷	82.0	73.4	3,569	3,614	630	630
Fertilizer, Lime & Soil Conditioners ⁷	83.9	82.3	4,816	4,590	850	800
Interest	64.7	60.5	4,533	4,016	800	700
Taxes (Real Estate & Property)	98.3	98.9	3,626	3,328	640	580
Labor	50.7	48.4	3,796	3,672	670	640
Fuels	95.5	94.6	2,946	2,983	520	520
Farm Supplies & Repairs ⁸	94.8	95.7	5,552	5,164	980	900
Farm Improvements & Construction ^{9 10}	55.2	67.2	2,606	3,614	460	630
Tractors and Self-Propelled Farm Machinery	18.5	27.3	2,833	3,155	500	550
Other Farm Machinery	27.0	40.9	1,700	2,065	300	360
Seeds & Plants ¹¹	77.0	76.7	3,456	3,557	610	620
Trucks & Autos	19.3	30.7	2,550	2,295	450	400

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Economic Class Gross Sales \$10,000 - \$49,999, United States, 2002-03 ¹**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	34,314	37,789	15,750	16,030
Livestock, Poultry & Related Expenses ⁴	35.0	33.1	2,375	2,499	1,090	1,060
Feed	63.3	64.4	2,571	2,452	1,180	1,040
Farm Services ⁵	98.9	98.0	5,076	5,186	2,330	2,200
Rent ⁶	41.4	36.5	1,569	1,603	720	680
Agricultural Chemicals ⁷	58.0	56.0	828	1,037	380	440
Fertilizer, Lime & Soil Conditioners ⁷	70.7	69.1	1,808	1,721	830	730
Interest	47.5	41.4	2,331	2,475	1,070	1,050
Taxes (Real Estate & Property)	98.8	98.6	2,549	2,758	1,170	1,170
Labor	40.5	39.2	1,481	1,273	680	540
Fuels	91.3	90.2	1,416	1,438	650	610
Farm Supplies & Repairs ⁸	91.6	90.1	2,767	2,452	1,270	1,040
Farm Improvements & Construction ^{9 10}	52.6	57.9	2,919	5,823	1,340	2,470
Tractors and Self-Propelled Farm Machinery	13.2	23.0	2,070	2,758	950	1,170
Other Farm Machinery	22.0	30.0	1,220	1,084	560	460
Seeds & Plants ¹¹	53.8	54.4	1,024	990	470	420
Trucks & Autos	16.5	25.1	2,266	2,192	1,040	930

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Economic Class Gross Sales Less Than \$10,000, United States, 2002-03 ¹**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	8,611	10,637	10,070	12,720
Livestock, Poultry & Related Expenses ⁴	25.4	25.3	299	293	350	350
Feed	65.5	68.1	804	1,012	940	1,210
Farm Services ⁵	91.8	92.5	1,343	1,756	1,570	2,100
Rent ⁶	14.1	11.5	86	67	100	80
Agricultural Chemicals ⁷	32.5	31.4	60	92	70	110
Fertilizer, Lime & Soil Conditioners ⁷	46.0	43.4	205	184	240	220
Interest	31.4	30.0	1,146	1,004	1,340	1,200
Taxes (Real Estate & Property)	98.2	99.0	1,009	1,079	1,180	1,290
Labor	20.7	20.0	351	234	410	280
Fuels	79.5	77.5	248	268	290	320
Farm Supplies & Repairs ⁸	77.6	77.0	539	594	630	710
Farm Improvements & Construction ^{9 10}	40.4	50.2	770	2,040	900	2,440
Tractors and Self-Propelled Farm Machinery	8.6	16.1	624	786	730	940
Other Farm Machinery	12.1	19.3	368	426	430	510
Seeds & Plants ¹¹	26.8	27.3	68	59	80	70
Trucks & Autos	10.0	17.4	667	728	780	870

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Northeast Region, 2002-03¹⁴**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	91,168	86,604	13,420	12,800
Livestock, Poultry & Related Expenses ⁴	34.1	36.1	5,435	5,007	800	740
Feed	64.8	67.5	15,285	14,344	2,250	2,120
Farm Services ⁵	96.0	96.4	13,519	11,231	1,990	1,660
Rent ⁶	30.4	23.9	2,446	2,030	360	300
Agricultural Chemicals ⁷	55.2	40.1	2,242	2,030	330	300
Fertilizer, Lime & Soil Conditioners ⁷	57.7	56.1	2,514	2,368	370	350
Interest	46.4	39.3	4,416	3,654	650	540
Taxes (Real Estate & Property)	98.1	98.9	3,533	3,789	520	560
Labor	34.8	32.6	14,674	13,532	2,160	2,000
Fuels	86.6	92.0	2,582	2,639	380	390
Farm Supplies & Repairs ⁸	92.6	92.9	7,133	6,563	1,050	970
Farm Improvements & Construction ^{9 10}	61.4	66.6	4,755	7,037	700	1,040
Tractors and Self-Propelled Farm Machinery	15.6	17.4	3,261	2,909	480	430
Other Farm Machinery	24.0	23.6	2,378	2,436	350	360
Seeds & Plants ¹¹	53.0	42.5	4,620	4,736	680	700
Trucks & Autos	14.2	19.6	1,698	1,962	250	290

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Lake States Region, 2002-03¹⁴**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	91,731	91,945	19,080	19,290
Livestock, Poultry & Related Expenses ⁴	29.6	27.7	5,913	6,435	1,230	1,350
Feed	57.9	60.0	10,144	12,583	2,110	2,640
Farm Services ⁵	91.8	93.0	12,356	11,010	2,570	2,310
Rent ⁶	40.1	35.8	7,596	7,340	1,580	1,540
Agricultural Chemicals ⁷	60.0	52.3	4,279	4,194	890	880
Fertilizer, Lime & Soil Conditioners ⁷	59.7	56.7	4,615	5,100	960	1,070
Interest	52.6	43.5	5,481	4,957	1,140	1,040
Taxes (Real Estate & Property)	99.7	99.7	4,183	4,051	870	850
Labor	34.2	29.2	8,462	7,912	1,760	1,660
Fuels	88.7	79.8	3,269	3,289	680	690
Farm Supplies & Repairs ⁸	87.8	82.6	7,308	6,721	1,520	1,410
Farm Improvements & Construction ^{9 10}	48.2	56.2	4,856	5,052	1,010	1,060
Tractors and Self-Propelled Farm Machinery	18.1	28.1	3,317	3,146	690	660
Other Farm Machinery	26.6	35.4	2,500	2,383	520	500
Seeds & Plants ¹¹	58.4	61.4	5,817	5,767	1,210	1,210
Trucks & Autos	15.1	26.9	1,346	1,573	280	330

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Corn Belt Region, 2002-03 ¹⁴**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	84,586	88,180	35,230	35,810
Livestock, Poultry & Related Expenses ⁴	31.4	28.5	7,491	7,338	3,120	2,980
Feed	60.6	57.4	8,523	10,096	3,550	4,100
Farm Services ⁵	96.4	94.8	8,283	8,889	3,450	3,610
Rent ⁶	40.1	35.7	13,685	13,371	5,700	5,430
Agricultural Chemicals ⁷	58.5	51.4	4,850	4,999	2,020	2,030
Fertilizer, Lime & Soil Conditioners ⁷	65.4	64.7	6,170	6,649	2,570	2,700
Interest	54.3	51.0	5,114	4,457	2,130	1,810
Taxes (Real Estate & Property)	99.5	99.7	3,986	3,989	1,660	1,620
Labor	33.5	28.0	3,457	3,694	1,440	1,500
Fuels	87.0	82.8	2,521	2,684	1,050	1,090
Farm Supplies & Repairs ⁸	85.0	84.0	4,826	4,211	2,010	1,710
Farm Improvements & Construction ^{9 10}	51.0	61.7	3,217	4,826	1,340	1,960
Tractors and Self-Propelled Farm Machinery	15.8	29.1	3,169	2,856	1,320	1,160
Other Farm Machinery	24.5	35.9	2,377	2,068	990	840
Seeds & Plants ¹¹	56.9	57.6	5,210	5,910	2,170	2,400
Trucks & Autos	13.6	28.7	1,633	1,921	680	780

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Northern Plains Region, 2002-03 ¹⁴**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	136,169	149,057	24,170	26,070
Livestock, Poultry & Related Expenses ⁴	34.5	34.0	23,268	27,044	4,130	4,730
Feed	56.1	54.2	13,239	17,038	2,350	2,980
Farm Services ⁵	96.2	92.9	15,775	15,838	2,800	2,770
Rent ⁶	58.1	52.9	16,901	17,553	3,000	3,070
Agricultural Chemicals ⁷	67.6	63.5	6,704	6,861	1,190	1,200
Fertilizer, Lime & Soil Conditioners ⁷	68.3	59.3	7,662	8,176	1,360	1,430
Interest	63.7	60.4	8,113	7,204	1,440	1,260
Taxes (Real Estate & Property)	99.7	98.3	5,915	5,832	1,050	1,020
Labor	36.3	35.9	5,690	5,832	1,010	1,020
Fuels	87.0	82.7	5,521	5,889	980	1,030
Farm Supplies & Repairs ⁸	86.6	81.3	8,563	8,062	1,520	1,410
Farm Improvements & Construction ^{9 10}	47.2	55.5	3,042	6,118	540	1,070
Tractors and Self-Propelled Farm Machinery	12.9	23.3	3,268	4,059	580	710
Other Farm Machinery	26.4	33.2	3,268	3,488	580	610
Seeds & Plants ¹¹	64.8	58.3	6,592	6,861	1,170	1,200
Trucks & Autos	21.6	32.5	2,479	2,916	440	510

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Appalachian Region, 2002-03 ¹⁴**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	52,644	54,936	16,030	16,250
Livestock, Poultry & Related Expenses ⁴	28.5	26.5	5,977	5,747	1,820	1,700
Feed	68.8	74.8	11,363	11,968	3,460	3,540
Farm Services ⁵	96.8	95.2	5,747	6,626	1,750	1,960
Rent ⁶	25.3	19.3	2,332	2,366	710	700
Agricultural Chemicals ⁷	42.9	43.0	1,642	1,724	500	510
Fertilizer, Lime & Soil Conditioners ⁷	66.2	65.1	2,463	2,502	750	740
Interest	34.1	32.0	2,430	2,265	740	670
Taxes (Real Estate & Property)	98.4	98.9	1,314	1,318	400	390
Labor	39.1	38.7	5,287	5,071	1,610	1,500
Fuels	91.1	88.2	1,773	1,792	540	530
Farm Supplies & Repairs ⁸	89.2	86.7	2,956	2,637	900	780
Farm Improvements & Construction ^{9 10}	49.4	58.4	2,332	3,685	710	1,090
Tractors and Self-Propelled Farm Machinery	11.8	16.4	2,069	2,535	630	750
Other Farm Machinery	18.3	27.1	920	1,285	280	380
Seeds & Plants ¹¹	41.6	45.0	1,970	2,096	600	620
Trucks & Autos	13.8	14.6	1,806	1,183	550	350

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Average per Farm, Farms Reporting, and Total,
Southeast Region, 2002-03 ¹⁴**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	73,353	78,980	12,140	12,850
Livestock, Poultry & Related Expenses ⁴	27.6	23.0	5,619	4,733	930	770
Feed	65.5	71.3	14,622	13,706	2,420	2,230
Farm Services ⁵	95.9	97.5	9,849	11,309	1,630	1,840
Rent ⁶	22.2	19.0	1,692	1,844	280	300
Agricultural Chemicals ⁷	44.8	51.3	2,961	3,503	490	570
Fertilizer, Lime & Soil Conditioners ⁷	72.2	70.7	3,927	4,364	650	710
Interest	36.3	32.4	3,021	3,135	500	510
Taxes (Real Estate & Property)	97.6	99.7	1,692	1,905	280	310
Labor	30.9	35.8	11,964	12,293	1,980	2,000
Fuels	89.6	86.6	2,538	2,520	420	410
Farm Supplies & Repairs ⁸	88.3	86.4	4,290	3,688	710	600
Farm Improvements & construction ^{9 10}	42.7	51.0	2,598	4,179	430	680
Tractors and Self-Propelled Farm Machinery	10.1	21.9	2,236	3,688	370	600
Other Farm Machinery	12.1	19.6	785	1,291	130	210
Seeds & Plants ¹¹	35.8	38.5	3,625	3,934	600	640
Trucks & Autos	14.8	22.9	1,631	2,459	270	400

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Delta Region, 2002-03¹⁴**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	79,004	83,830	9,520	9,850
Livestock, Poultry & Related Expenses ⁴	30.3	32.9	6,224	7,064	750	830
Feed	67.8	76.1	12,282	16,340	1,480	1,920
Farm Services ⁵	91.4	92.7	11,618	11,574	1,400	1,360
Rent ⁶	29.6	27.1	6,473	6,468	780	760
Agricultural Chemicals ⁷	40.1	43.9	6,224	6,043	750	710
Fertilizer, Lime & Soil Conditioners ⁷	62.9	59.0	3,983	4,170	480	490
Interest	42.2	34.8	4,149	3,404	500	400
Taxes (Real Estate & Property)	95.5	91.3	1,660	1,532	200	180
Labor	33.9	33.9	5,477	5,447	660	640
Fuels	92.6	82.8	3,734	3,745	450	440
Farm Supplies & Repairs ⁸	82.0	81.8	4,813	4,511	580	530
Farm Improvements & Construction ^{9 10}	42.1	50.5	2,656	2,723	320	320
Tractors and Self-Propelled Farm Machinery	11.5	19.5	2,656	2,979	320	350
Other Farm Machinery	16.9	27.6	1,079	1,787	130	210
Seeds & Plants ¹¹	43.4	35.5	3,568	3,489	430	410
Trucks & Autos	15.9	26.8	2,241	2,298	270	270

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Southern Plains Region, 2002-03 ¹⁴**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	45,804	54,944	14,520	17,170
Livestock, Poultry & Related Expenses ⁴	33.7	39.7	7,571	8,832	2,400	2,760
Feed	78.7	79.2	4,448	6,496	1,410	2,030
Farm Services ⁵	94.0	96.5	6,498	7,840	2,060	2,450
Rent ⁶	29.0	27.1	2,871	3,136	910	980
Agricultural Chemicals ⁷	36.4	39.4	1,293	1,376	410	430
Fertilizer, Lime & Soil Conditioners ⁷	54.0	46.9	2,240	2,432	710	760
Interest	36.6	37.8	2,650	2,688	840	840
Taxes (Real Estate & Property)	96.3	99.4	1,893	2,016	600	630
Labor	33.7	32.5	2,871	3,008	910	940
Fuels	77.9	88.4	2,208	2,400	700	750
Farm Supplies & Repairs ⁸	76.5	83.5	2,587	2,624	820	820
Farm Improvements & Construction ^{9 10}	42.4	51.9	2,208	4,320	700	1,350
Tractors and Self-Propelled Farm Machinery	10.5	21.9	2,492	2,688	790	840
Other Farm Machinery	15.0	20.1	852	1,184	270	370
Seeds & Plants ¹¹	28.3	30.8	1,041	1,216	330	380
Trucks & Autos	13.7	25.4	1,987	2,656	630	830

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Mountain Region, 2002-03¹⁴**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	129,202	118,182	16,990	16,510
Livestock, Poultry & Related Expenses ⁴	40.0	28.9	16,122	14,460	2,120	2,020
Feed	62.3	57.9	19,392	16,535	2,550	2,310
Farm Services ⁵	95.0	96.7	19,544	16,392	2,570	2,290
Rent ⁶	41.0	38.0	7,605	7,874	1,000	1,100
Agricultural Chemicals ⁷	42.2	40.8	3,346	3,078	440	430
Fertilizer, Lime & Soil Conditioners ⁷	40.6	36.2	4,867	4,438	640	620
Interest	46.5	42.3	7,985	6,371	1,050	890
Taxes (Real Estate & Property)	97.3	98.7	3,498	3,150	460	440
Labor	38.4	36.3	14,981	13,386	1,970	1,870
Fuels	81.7	81.3	4,259	4,080	560	570
Farm Supplies & Repairs ⁸	85.3	82.7	8,365	7,087	1,100	990
Farm Improvements & Construction ^{9 10}	56.4	54.9	6,768	11,596	890	1,620
Tractors and Self-Propelled Farm Machinery	15.1	11.4	3,574	2,649	470	370
Other Farm Machinery	18.3	15.9	1,673	1,288	220	180
Seeds & Plants ¹¹	36.0	33.0	4,030	3,508	530	490
Trucks & Autos	18.1	16.2	2,890	1,861	380	260

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Farms Reporting, Average per Farm, and Total,
Pacific Region, 2002-03 ¹⁴**

Expenditure - Farm Share	Farms Reporting ¹²		Average per Farm ¹³		Total Expenditures	
	2002	2003	2002	2003	2002	2003
	<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	195,122	209,740	32,000	32,300
Livestock, Poultry & Related Expenses ⁴	27.0	27.3	6,098	7,273	1,000	1,120
Feed	47.6	51.0	20,244	20,325	3,320	3,130
Farm Services ⁵	97.8	97.8	40,122	42,532	6,580	6,550
Rent ⁶	19.7	24.8	11,463	14,416	1,880	2,220
Agricultural Chemicals ⁷	57.7	59.1	7,805	8,701	1,280	1,340
Fertilizer, Lime & Soil Conditioners ⁷	53.1	58.9	6,768	7,338	1,110	1,130
Interest	44.3	40.6	9,207	8,701	1,510	1,340
Taxes (Real Estate & Property)	99.4	99.1	4,634	5,195	760	800
Labor	52.0	50.2	48,780	52,403	8,000	8,070
Fuels	85.1	75.7	4,512	5,195	740	800
Farm Supplies & Repairs ⁸	84.7	82.7	12,134	11,558	1,990	1,780
Farm Improvements & Construction ^{9 10}	47.4	61.1	8,293	8,506	1,360	1,310
Tractors and Self-Propelled Farm Machinery	12.0	24.5	3,354	4,091	550	630
Other Farm Machinery	10.8	28.8	1,402	1,558	230	240
Seeds & Plants ¹¹	34.6	36.3	7,195	8,117	1,180	1,250
Trucks & Autos	13.4	26.1	2,744	3,117	450	480

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Total,
United States, 1998-2003 ¹**

Expenditure - Farm Share	1998	1999	2000	2001	2002	2003
	<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}	183,150	184,050	189,600	195,200	193,100	198,900
Livestock, Poultry & Related Expenses ⁴	14,500	16,800	18,000	18,500	18,300	19,000
Feed	25,000	24,500	24,500	24,800	24,900	27,000
Farm Services ⁵	25,000	25,700	25,400	26,900	26,800	26,800
Rent ⁶	17,300	15,900	16,100	16,400	16,200	16,400
Agricultural Chemicals ⁷	9,000	8,600	8,500	8,600	8,300	8,400
Fertilizer, Lime & Soil Conditioners ⁷	10,600	9,900	10,000	10,300	9,600	10,000
Interest	10,800	10,700	10,900	11,000	10,500	9,300
Taxes (Real Estate & Property)	6,800	6,800	6,900	6,900	6,800	6,800
Labor	19,000	19,700	20,700	21,700	21,500	21,200
Fuels	5,400	5,300	7,000	6,700	6,500	6,700
Farm Supplies & Repairs ⁸	12,200	12,600	12,400	12,700	12,200	11,000
Farm Improvements & Construction ^{9 10}	6,450	7,100	8,400	7,800	8,000	11,500
Tractors and Self-Propelled Farm Machinery	6,000	5,400	5,400	6,200	6,200	6,500
Other Farm Machinery	3,550	3,500	3,600	3,700	3,700	3,900
Seeds & Plants ¹¹	7,200	7,200	7,500	8,200	8,900	9,300
Trucks & Autos	4,000	3,900	4,000	4,300	4,200	4,500

See footnotes on page 32.

**Farm Production Expenditures:
Major Input Items, Percent of Total,
United States, 1998-2003 ¹**

Expenditure - Farm Share	1998	1999	2000	2001	2002	2003
	<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	7.9	9.1	9.5	9.5	9.5	9.6
Feed	13.7	13.3	12.9	12.7	12.9	13.6
Farm Services ⁵	13.7	14.0	13.4	13.8	13.9	13.5
Rent ⁶	9.4	8.6	8.5	8.4	8.4	8.2
Agricultural Chemicals ⁷	4.9	4.7	4.5	4.4	4.3	4.2
Fertilizer, Lime & Soil Conditioners ⁷	5.8	5.4	5.3	5.3	5.0	5.0
Interest	5.9	5.8	5.7	5.6	5.4	4.7
Taxes (Real Estate & Property)	3.7	3.7	3.6	3.5	3.5	3.4
Labor	10.4	10.7	10.9	11.1	11.1	10.7
Fuels	2.9	2.9	3.7	3.4	3.4	3.4
Farm Supplies & Repairs ⁸	6.7	6.8	6.5	6.5	6.3	5.5
Farm Improvements & Construction ^{9 10}	3.5	3.9	4.4	4.0	4.1	5.8
Tractors and Self-Propelled Farm Machinery	3.3	2.9	2.8	3.2	3.2	3.3
Other Farm Machinery	1.9	1.9	1.9	1.9	1.9	2.0
Seeds & Plants ¹¹	3.9	3.9	4.0	4.2	4.6	4.7
Trucks & Autos	2.2	2.1	2.1	2.2	2.2	2.3

See footnotes on page 32.

**Fuels Production Expenditures:
Sub-Components, Total and Percent of Total,
United States, 2002-03**

Expenditure - Farm Share	2002		2003	
	<i>Million Dollars</i>	<i>Percent</i>	<i>Million Dollars</i>	<i>Percent</i>
Total Fuels Expenditures	6,500	100.0	6,700	100.0
Diesel	3,270	50.3	3,430	51.2
Gas	1,640	25.2	1,760	26.3
LP Gas	860	13.2	920	13.7
Other Fuels ¹	730	11.2	590	8.8

¹ Includes natural gas, coal, fuel oil, kerosene, wood, etc.

**Fuels Production Expenditures:
Sub-Components and Total,
By Type of Farms, United States, 2002-03**

Expenditure - Farm Share	Crop Farms		Livestock Farms	
	2002	2003	2002	2003
	<i>Million Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>	<i>Million Dollars</i>
Total Fuels Expenditures	3,950	4,000	2,550	2,700
Diesel	2,069	2,137	1,201	1,293
Gas	892	907	748	853
LP Gas	417	511	443	409
Other Fuels ¹	572	445	158	145

¹ Includes natural gas, coal, fuel oil, kerosene, wood, etc.

**Fuels Production Expenditures:
Sub-Components and Total,
By Economic Class of Farm, United States, 2002-03**

Expenditure - Farm Share	\$1,000,000 and over		\$500,000 - \$999,999		\$250,000 - \$499,999		\$100,000 - \$249,999	
	2002	2003	2002	2003	2002	2003	2002	2003
	<i>Million Dollars</i>							
Total Fuels Expenditures	1,400	1,640	1,070	1,220	1,220	1,170	1,350	1,220
Diesel	609	747	490	676	662	660	768	697
Gas	258	284	213	238	273	276	351	339
LP Gas	234	301	189	206	166	180	150	122
Other Fuels ¹	299	308	178	100	119	54	81	62

¹ Includes natural gas, coal, fuel oil, kerosene, wood, etc.

**Fuels Production Expenditures:
Sub-Components and Total,
By Economic Class of Farm, United States, 2002-03**

Expenditure - Farm Share	\$50,000 - \$99,999		\$10,000 - \$49,999		Less Than \$10,000	
	2002	2003	2002	2003	2002	2003
	<i>Million Dollars</i>					
Total Fuels Expenditures	520	520	650	610	290	320
Diesel	285	248	332	276	124	126
Gas	158	185	247	278	140	160
LP Gas	50	53	55	42	16	16
Other Fuels ¹	27	34	16	14	10	18

¹ Includes natural gas, coal, fuel oil, kerosene, wood, etc.

**Fuels Production Expenditures:
Sub-Components and Total,
By Farm Production region, United States, 2002-03**

Expenditure - Farm Share	Northeast		Lake States		Corn Belt	
	2002	2003	2002	2003	2002	2003
	<i>Million Dollars</i>					
Total Fuels Expenditures	380	390	680	690	1,050	1,090
Diesel	174	158	340	373	587	564
Gas	92	125	125	139	233	230
LP Gas	50	48	122	134	199	225
Other Fuels ¹	64	59	93	44	31	71

¹ Includes natural gas, coal, fuel oil, kerosene, wood, etc.

**Fuels Production Expenditures:
Sub-Components and Total,
By Farm Production region, United States, 2002-03**

Expenditure - Farm Share	Northern Plains		Appalachian		Southeast	
	2002	2003	2002	2003	2002	2003
	<i>Million Dollars</i>					
Total Fuels Expenditures	980	1,030	540	530	420	410
Diesel	557	603	219	235	189	172
Gas	231	247	141	171	124	97
LP Gas	64	81	144	92	93	111
Other Fuels ¹	128	99	36	32	14	29

¹ Includes natural gas, coal, fuel oil, kerosene, wood, etc.

**Fuels Production Expenditures:
Sub-Components and Total,
By Farm Production region, United States, 2002-03**

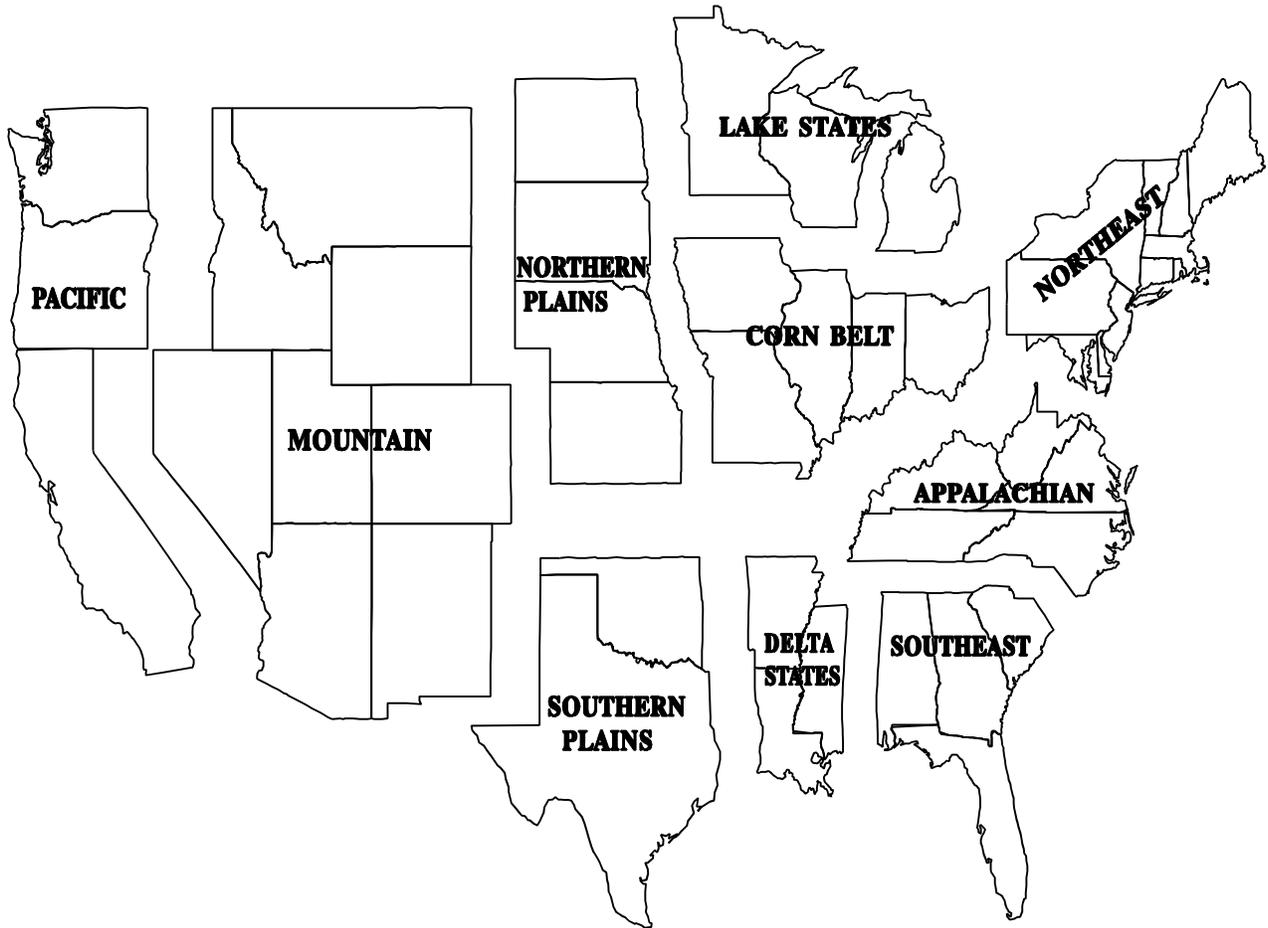
Expenditure - Farm Share	Delta		Southern - Plains		Mountain		Pacific	
	2002	2003	2002	2003	2002	2003	2002	2003
	<i>Million Dollars</i>							
Total Fuels Expenditures	450	440	700	750	560	570	740	800
Diesel	220	251	310	388	276	291	398	395
Gas	86	90	185	213	206	202	217	246
LP Gas	75	78	36	43	40	54	37	54
Other Fuels ¹	69	21	169	106	38	23	88	105

¹ Includes natural gas, coal, fuel oil, kerosene, wood, etc.

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, fences, operator dwelling (if dwelling is owned by operation), and any improvements to physical structures of land.
- ¹⁰ Changed to include operator dwelling expenses (if dwelling is owned by operation) in 2003.
- ¹¹ Excludes bedding plants, nursery stock, and seed purchased for resale. Includes seed treatment.
- ¹² Number of farms reporting item divided by total number of farms.
- ¹³ Total expenditures divided by total number of farms.
- ¹⁴ 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 FCRS and the CPS 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 Classes were 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 Classes to provide an historical reference. The new 7 U.S. Economic 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 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.

In 2003, the farm improvement and construction expenditure items will be changed to include expenses for the operator's dwelling (if the dwelling is owned by the operation). The operator's dwelling is considered to be a part of the operation if any of the following statements are true: it is recorded as an asset in farm record books; can be used as security or collateral for a farm loan; and can be deeded as part of the farm.

Also in 2003, fuels expense sub-components will be published for the first time for the different domains that are estimated. Significant variations in energy prices over the last four years have made energy usage an important issue for all consumers.

Survey Procedures: The farm production expenditure data contained in this publication are the result of a sample survey of approximately 33,861 farms and ranches contacted January through April of 2004 in all States except Alaska and Hawaii. The Agricultural Resource Management Survey 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 Survey 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 Survey 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 2002 and 2003 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. Fuels expenditure sub-components will be published for the first time in 2003. Expenditures for the 7 Economic Sales Classes are only available for 2001 - 2003 survey years.

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 2003 total expenditures, the relative sampling errors were as follows for the different domains estimated: at the U.S. level 1.7 percent; from 2.0 to 11.2 percent at the Regional level; from 2.9 to 5.4 percent at the U.S. Economic Sales Class level; 2.4 percent for Crop Farms; and 3.4 percent for Livestock Farms. 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; and 2.5 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 15, 2004, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, U.S. Department of Agriculture. For information on *Farm Production Expenditures 2003 Summary* call Scott Cox at 202-690-3347 or Gerald Tillman at 202-690-1052, office hours 7:30 a.m. to 4:00 p.m. ET.

The next *Farm Production Expenditures 2004 Summary* report will be released in July 2005.

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