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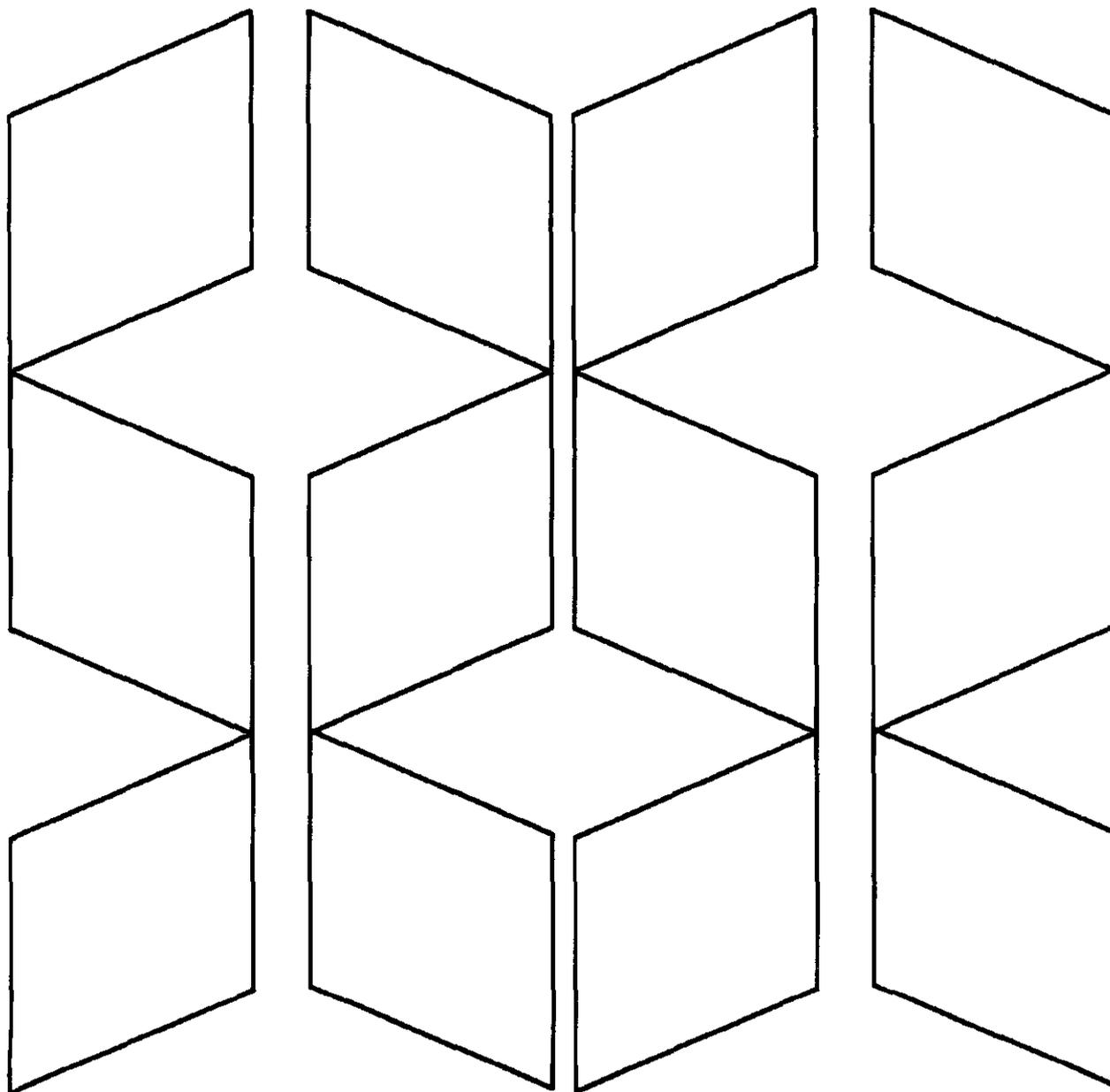
Washington, D.C.



July 1994  
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# Farm Production Expenditures

## 1993 Summary



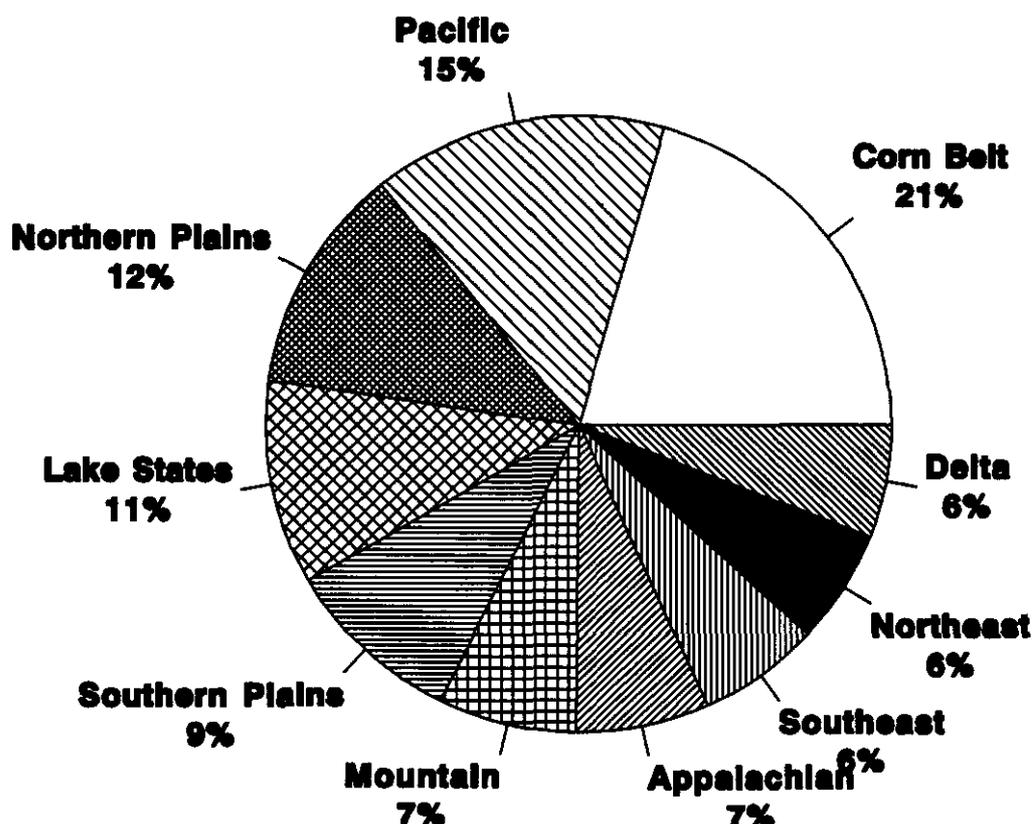
### Production Expenditures Up 7 Percent in 1993

U.S. farm production expenditures totaled \$154.9 billion in 1993, up 7.0 percent from the revised 1992 total of \$144.8 billion. The largest contributors to the increase were farm service expenditures (up 16.4 percent), livestock and poultry purchases (up 14.1 percent), labor (up 7.3 percent), and feed (up 6.5 percent). Feed and farm service expenditures each accounted for 13.8 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 1993 were \$75,064 compared to \$69,259, as revised for 1992. On the average, U.S. farm operations in 1993 spent \$10,372 on feed; \$10,323 on farm services; \$7,852 on livestock and poultry purchases; and \$7,125 on labor. Revised estimates for 1992 indicated that U.S. farms spent an average of \$9,614 on feed, \$8,753 on farm services; \$6,792 on livestock and poultry purchases; and \$6,553 for labor.

The Farm Production Region (as defined on page 22) contributing most to the total 1993 U.S. farm production expenditures was the Corn Belt with expenses of \$32.0 billion, 20.7 percent of the U.S. total. Expenditures in the Corn Belt were up 1.9 percent over the revised 1992 level of \$31.4 billion. In total expenditures, the Corn Belt was followed by the Pacific Region at \$23.5 billion (1992 - \$21.1 b); Northern Plains \$18.4 billion (1992 - \$17.4 b); Lake States \$16.4 billion (1992 - \$15.5 b); and the Southern Plains at \$14.5 billion (1992 - \$13.3 b).

### Farm Production Regions Percent of Total U.S. Expenditures - 1993



Farm Production Expenditures: Major Input Items by Value  
and Percent of Total, United States, 1992-93 1/

Expenditure - Farm Share	1992		1993	
	Million Dollars	Percent	Million Dollars	Percent
Total Farm Production Expenditures <u>2/ 3/</u>	144,800	100.0	154,880	100.0
Livestock, Poultry & Related Expenses <u>4/</u>	14,200	9.8	16,200	10.5
Feed	20,100	13.9	21,400	13.8
Farm Services, excluding Rent <u>5/</u>	18,300	12.6	21,300	13.8
Rent	14,600	10.1	14,500	9.4
Agricultural Chemicals <u>6/</u>	6,450	4.5	6,700	4.3
Fertilizer, Lime & Soil Conditioners <u>6/</u>	8,300	5.7	8,370	5.4
Interest	9,600	6.6	9,300	6.0
Taxes (Real Estate & Property)	5,490	3.8	5,900	3.8
Labor	13,700	9.5	14,700	9.5
Fuels & Lubricants	5,460	3.8	5,540	3.6
Farm Supplies <u>7/</u>	2,950	2.0	3,080	2.0
Building & Fencing	2,950	2.0	3,200	2.1
Farm & Land Improvements	1,350	0.9	2,200	1.4
Tractors and Self-Propelled Farm Machinery	4,180	2.9	4,440	2.9
Other Farm Machinery <u>8/</u>	9,700	6.7	10,200	6.6
Seeds & Plants <u>9/</u>	4,900	3.4	5,150	3.3
Trucks & Autos	2,300	1.6	2,500	1.6

See footnotes on page 21 of publication.

Production Expenditures: Major Input Items, Average  
per Farm and Total, United States, 1992-93 1/

Expenditure - Farm Share	Farms Reporting <u>10/</u>		Average per Farm <u>11/</u>		Total Expenditure <u>2/</u>	
	1992	1993	1992	1993	1992	1993
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/ 3/</u>	100.0	100.0	69,259	75,064	144,800	154,880
Livestock, Poultry & Related Expenses <u>4/</u>	39.6	41.0	6,792	7,852	14,200	16,200
Feed	70.5	66.1	9,614	10,372	20,100	21,400
Farm Services, excluding Rent <u>5/</u>	95.1	96.8	8,753	10,323	18,300	21,300
Rent	37.8	37.9	6,983	7,028	14,600	14,500
Agricultural Chemicals <u>6/</u>	63.7	57.2	3,085	3,247	6,450	6,700
Fertilizer, Lime & Soil Conditioners <u>6/</u>	66.9	66.6	3,970	4,057	8,300	8,370
Interest	49.1	53.1	4,592	4,507	9,600	9,300
Taxes (Real Estate & Property)	94.7	97.5	2,626	2,859	5,490	5,900
Labor	38.6	40.2	6,553	7,125	13,700	14,700
Fuels & Lubricants	89.5	90.3	2,612	2,685	5,460	5,540
Farm Supplies <u>7/</u>	68.4	64.1	1,411	1,493	2,950	3,080
Building & Fencing	52.4	52.7	1,411	1,551	2,950	3,200
Farm & Land Improvements	34.0	36.4	646	1,066	1,350	2,200
Tractors and Self-Propelled Farm Machinery	12.0	14.8	1,999	2,152	4,180	4,440
Other Farm Machinery <u>8/</u>	77.9	78.3	4,640	4,944	9,700	10,200
Seeds & Plants <u>9/</u>	59.6	59.1	2,344	2,496	4,900	5,150
Trucks & Autos	15.0	14.8	1,100	1,212	2,300	2,500

See footnotes on page 21 of publication.

Production Expenditures: Major Input Items, Crop Farms,  
Average per Farm and Total, United States, 1992-93 1/

Expenditure - Farm Share	Farms		Average		Total	
	Reporting <u>10/</u>	1993	per Farm <u>11/</u>	1993	Expenditure <u>2/</u>	1993
	1992	1993	1992	1993	1992	1993
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/ 3/</u>	100.0	100.0	81,109	87,962	71,230	75,146
Livestock, Poultry & Related Expenses <u>4/</u>	19.7	17.6	1,534	1,686	1,347	1,440
Feed	34.4	28.1	1,358	1,491	1,193	1,274
Farm Services, excluding Rent <u>5/</u>	94.0	93.5	10,810	13,059	9,494	11,156
Rent	43.9	41.6	12,469	12,656	10,950	10,812
Agricultural Chemicals <u>6/</u>	72.4	70.1	5,919	6,306	5,198	5,387
Fertilizer, Lime & Soil Conditioners <u>6/</u>	75.9	75.1	6,757	7,006	5,934	5,985
Interest	52.2	55.1	5,770	5,714	5,067	4,881
Taxes (Real Estate & Property)	94.7	98.2	3,492	3,868	3,067	3,305
Labor	43.9	46.0	10,823	11,966	9,505	10,223
Fuels & Lubricants	89.0	85.7	3,671	3,795	3,224	3,242
Farm Supplies <u>7/</u>	68.6	63.8	1,934	2,046	1,699	1,748
Building & Fencing	34.5	33.3	1,204	1,330	1,058	1,136
Farm & Land Improvements	29.3	30.5	808	1,339	710	1,144
Tractors and Self-Propelled Farm Machinery	16.2	17.3	2,781	3,023	2,442	2,583
Other Farm Machinery <u>8/</u>	79.2	76.2	6,027	6,477	5,293	5,533
Seeds & Plants <u>9/</u>	75.6	71.8	4,285	4,634	3,763	3,959
Trucks & Autos	17.0	16.2	1,253	1,409	1,100	1,204

See footnotes on page 21 of publication.

Production Expenditures: Major Input Items, Livestock Farms,  
Average per Farm and Total, United States, 1992-93 1/

Expenditure - Farm Share	Farms		Average		Total	
	Reporting <u>10/</u>	1993	per Farm <u>11/</u>	1993	Expenditure <u>2/</u>	1993
	1992	1993	1992	1993	1992	1993
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/ 3/</u>	100.0	100.0	60,676	65,950	73,570	79,734
Livestock, Poultry & Related Expenses <u>4/</u>	54.0	57.5	10,600	12,208	12,853	14,760
Feed	96.7	93.0	15,593	16,647	18,907	20,127
Farm Services, excluding Rent <u>5/</u>	96.0	99.1	7,263	8,390	8,806	10,144
Rent	33.4	35.2	3,010	3,051	3,650	3,688
Agricultural Chemicals <u>6/</u>	57.3	48.1	1,032	1,086	1,252	1,313
Fertilizer, Lime & Soil Conditioners <u>6/</u>	60.4	60.7	1,952	1,973	2,366	2,385
Interest	46.8	51.7	3,739	3,655	4,533	4,419
Taxes (Real Estate & Property)	94.7	97.0	1,998	2,147	2,423	2,595
Labor	34.7	36.2	3,460	3,703	4,195	4,478
Fuels & Lubricants	89.8	93.6	1,844	1,901	2,236	2,298
Farm Supplies <u>7/</u>	68.3	64.3	1,032	1,102	1,251	1,332
Building & Fencing	65.5	66.4	1,561	1,707	1,892	2,064
Farm & Land Improvements	37.5	40.6	528	874	640	1,056
Tractors and Self-Propelled Farm Machinery	12.7	13.0	1,433	1,536	1,738	1,857
Other Farm Machinery <u>8/</u>	74.5	79.7	3,635	3,860	4,407	4,667
Seeds & Plants <u>9/</u>	48.0	50.2	938	985	1,137	1,191
Trucks & Autos	13.6	13.7	989	1,072	1,200	1,296

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Production Expenditures: Major Input Items, Economic Class Gross  
Sales \$250,000 and Over, United States, 1992-93 1/

Expenditure - Farm Share	Farms		Average		Total	
	Reporting 10/ 1992	1993	per Farm 11/ 1992	1993	Expenditure 2/ 1992	1993
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/ 3/</u>	100.0	100.0	618,182	638,176	64,600	73,837
Livestock, Poultry & Related Expenses <u>4/</u>	54.7	54.8	76,703	85,742	8,016	9,920
Feed	67.0	66.0	97,481	102,522	10,187	11,862
Farm Services, excluding Rent <u>5/</u>	100.0	100.0	75,223	84,024	7,861	9,722
Rent	78.7	79.6	55,187	53,425	5,767	6,181
Agricultural Chemicals <u>6/</u>	92.3	88.0	28,919	27,901	3,022	3,228
Fertilizer, Lime & Soil Conditioners <u>6/</u>	85.7	86.1	31,465	30,146	3,288	3,488
Interest	85.4	89.0	32,558	30,116	3,402	3,484
Taxes (Real Estate & Property)	98.4	99.6	14,502	14,547	1,516	1,683
Labor	87.3	88.5	89,841	89,400	9,388	10,344
Fuels & Lubricants	99.1	99.3	18,425	17,909	1,925	2,072
Farm Supplies <u>7/</u>	92.9	89.8	13,055	12,741	1,364	1,474
Building & Fencing	65.0	62.7	9,643	10,150	1,008	1,174
Farm & Land Improvements	61.4	59.7	5,572	8,552	582	990
Tractors and Self-Propelled Farm Machinery	34.3	38.4	13,033	13,476	1,362	1,559
Other Farm Machinery <u>8/</u>	97.7	95.4	30,970	31,567	3,236	3,652
Seeds & Plants <u>9/</u>	84.5	86.8	19,490	19,908	2,037	2,303
Trucks & Autos	35.3	32.7	4,878	5,162	510	597

See footnotes on page 21 of publication.

Production Expenditures: Major Input Items, Economic Class Gross  
Sales \$100,000 - \$249,999, United States, 1992-93 1/

Expenditure - Farm Share	Farms		Average		Total	
	Reporting <u>10/</u> 1992	1993	per Farm <u>11/</u> 1992	1993	Expenditure <u>2/</u> 1992	1993
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/ 3/</u>	100.0	100.0	160,538	163,465	35,238	36,518
Livestock, Poultry & Related Expenses <u>4/</u>	48.9	48.8	11,321	11,283	2,485	2,521
Feed	67.6	66.6	20,217	20,303	4,438	4,536
Farm Services, excluding Rent <u>5/</u>	100.0	99.7	19,652	21,816	4,314	4,874
Rent	77.0	79.9	22,199	21,211	4,873	4,739
Agricultural Chemicals <u>6/</u>	93.6	91.4	8,364	8,719	1,836	1,948
Fertilizer, Lime & Soil Conditioners <u>6/</u>	89.3	93.0	10,903	10,709	2,393	2,392
Interest	80.7	86.5	11,068	10,478	2,429	2,341
Taxes (Real Estate & Property)	97.2	99.3	5,965	6,576	1,309	1,469
Labor	73.5	74.6	11,061	10,861	2,428	2,426
Fuels & Lubricants	99.3	99.4	6,671	6,643	1,464	1,484
Farm Supplies <u>7/</u>	91.4	88.4	2,747	2,871	603	641
Building & Fencing	56.9	55.5	2,743	2,820	602	630
Farm & Land Improvements	49.4	49.7	1,238	1,975	272	441
Tractors and Self-Propelled Farm Machinery	28.1	27.6	5,558	5,624	1,220	1,257
Other Farm Machinery <u>8/</u>	98.2	96.8	12,010	12,637	2,636	2,823
Seeds & Plants <u>9/</u>	88.4	91.9	6,463	6,451	1,419	1,441
Trucks & Autos	21.0	23.9	2,126	2,331	467	521

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Production Expenditures: Major Input Items, Economic Class Gross  
Sales \$40,000 - \$99,999, United States, 1992-93 1/

Expenditure - Farm Share	Farms		Average		Total	
	Reporting <u>10/</u> 1992	1993	per Farm <u>11/</u> 1992	1993	Expenditure <u>2/</u> 1992	1993
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/ 3/</u>	100.0	100.0	76,906	79,765	23,318	22,055
Livestock, Poultry & Related Expenses <u>4/</u>	51.2	44.9	6,342	6,452	1,923	1,784
Feed	70.7	65.3	10,178	9,945	3,086	2,750
Farm Services, excluding Rent <u>5/</u>	99.8	99.8	10,214	11,576	3,097	3,201
Rent	67.1	63.0	8,980	8,609	2,723	2,380
Agricultural Chemicals <u>6/</u>	86.7	81.2	3,384	3,528	1,026	976
Fertilizer, Lime & Soil Conditioners <u>6/</u>	84.9	83.0	4,805	4,867	1,457	1,346
Interest	69.7	70.9	5,355	5,193	1,624	1,436
Taxes (Real Estate & Property)	98.5	98.9	3,465	3,894	1,051	1,077
Labor	53.7	58.9	3,477	3,858	1,054	1,067
Fuels & Lubricants	98.8	97.1	3,511	3,673	1,064	1,016
Farm Supplies <u>7/</u>	87.3	81.3	1,560	1,655	473	458
Building & Fencing	53.7	56.0	1,515	1,562	459	432
Farm & Land Improvements	42.2	43.7	611	1,051	185	291
Tractors and Self-Propelled Farm Machinery	18.4	18.2	2,307	2,376	700	657
Other Farm Machinery <u>8/</u>	95.4	94.0	6,684	6,742	2,027	1,864
Seeds & Plants <u>9/</u>	82.3	83.7	2,944	3,159	893	874
Trucks & Autos	20.8	20.8	1,447	1,529	439	423

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Production Expenditures: Major Input Items, Economic Class Gross  
Sales \$10,000 - \$39,999, United States, 1992-93 1/

Expenditure - Farm Share	Farms		Average		Total	
	Reporting <u>10/</u> 1992	1993	per Farm <u>11/</u> 1992	1993	Expenditure <u>2/</u> 1992	1993
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/ 3/</u>	100.0	100.0	27,111	29,036	12,639	13,162
Livestock, Poultry & Related Expenses <u>4/</u>	40.8	42.8	2,365	2,734	1,103	1,239
Feed	69.1	67.5	3,041	2,954	1,418	1,339
Farm Services, excluding Rent <u>5/</u>	98.6	97.6	3,746	4,508	1,746	2,043
Rent	43.3	37.9	2,058	2,036	960	923
Agricultural Chemicals <u>6/</u>	71.7	62.4	940	941	438	427
Fertilizer, Lime & Soil Conditioners <u>6/</u>	75.7	72.5	1,693	1,674	789	759
Interest	48.4	51.6	2,055	2,116	958	959
Taxes (Real Estate & Property)	96.4	97.8	1,581	1,736	737	787
Labor	42.7	42.8	1,127	1,224	525	555
Fuels & Lubricants	95.2	94.0	1,360	1,355	634	614
Farm Supplies <u>7/</u>	72.8	70.1	675	692	315	314
Building & Fencing	55.1	52.6	802	970	374	440
Farm & Land Improvements	32.5	39.4	302	506	141	229
Tractors and Self-Propelled Farm Machinery	13.2	14.7	1,079	1,151	503	522
Other Farm Machinery <u>8/</u>	86.9	87.2	2,366	2,474	1,103	1,121
Seeds & Plants <u>9/</u>	70.6	64.6	882	869	411	394
Trucks & Autos	17.4	15.0	979	1,054	456	478

See footnotes on page 21 of publication.

Production Expenditures: Major Input Items, Economic Class Gross  
Sales Less Than \$10,000, United States, 1992-93 1/

Expenditure - Farm Share	Farms		Average		Total	
	Reporting <u>10/</u>	1993	per Farm <u>11/</u>	1993	Expenditure <u>2/</u>	1993
	1992	1993	1992	1993	1992	1993
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/ 3/</u>	100.0	100.0	9,029	9,360	9,005	9,308
Livestock, Poultry & Related Expenses <u>4/</u>	31.9	35.7	676	740	674	736
Feed	72.0	65.6	975	919	972	914
Farm Services, excluding Rent <u>5/</u>	90.5	94.6	1,286	1,469	1,282	1,461
Rent	13.6	16.5	279	279	278	277
Agricultural Chemicals <u>6/</u>	43.5	36.8	128	123	128	122
Fertilizer, Lime & Soil Conditioners <u>6/</u>	50.6	51.2	374	387	373	385
Interest	32.5	37.1	1,190	1,086	1,187	1,080
Taxes (Real Estate & Property)	91.9	96.3	880	889	878	884
Labor	19.4	20.5	305	311	304	309
Fuels & Lubricants	80.9	83.7	373	356	372	354
Farm Supplies <u>7/</u>	53.0	48.1	196	194	195	193
Building & Fencing	48.5	50.0	508	527	507	524
Farm & Land Improvements	26.0	27.4	171	251	170	249
Tractors and Self-Propelled Farm Machinery	8.2	8.2	397	448	396	446
Other Farm Machinery <u>8/</u>	59.0	63.7	699	743	698	739
Seeds & Plants <u>9/</u>	38.8	39.2	141	139	141	138
Trucks & Autos	8.7	8.8	430	484	429	482

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Production Expenditures: Major Input Items, Average per Farm  
and Total, Northeast Region, 1992-93 12/

Expenditure - Farm Share	Farms		Average		Total	
	Reporting <u>10/</u> 1992	1993	per Farm <u>11/</u> 1992	1993	Expenditure <u>2/</u> 1992	1993
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/ 3/</u>	100.0	100.0	63,946	65,913	9,285	9,419
Livestock, Poultry & Related Expenses <u>4/</u>	39.0	37.6	3,724	4,148	541	593
Feed	68.2	63.8	13,364	13,639	1,941	1,949
Farm Services, excluding Rent <u>5/</u>	96.8	97.0	8,405	9,573	1,220	1,368
Rent	33.0	31.3	1,960	1,855	285	265
Agricultural Chemicals <u>6/</u>	64.3	54.6	1,672	1,584	243	226
Fertilizer, Lime & Soil Conditioners <u>6/</u>	70.0	62.7	2,848	2,564	414	366
Interest	43.9	48.3	3,220	3,213	468	459
Taxes (Real Estate & Property)	97.9	97.8	3,550	3,662	515	523
Labor	35.0	34.6	8,258	8,863	1,199	1,267
Fuels & Lubricants	91.6	95.7	2,151	2,272	312	325
Farm Supplies <u>7/</u>	82.0	68.0	2,102	2,109	305	301
Building & Fencing	52.3	59.6	2,595	2,502	377	358
Farm & Land Improvements	36.6	36.8	528	831	77	119
Tractors and Self-Propelled Farm Machinery	12.0	15.8	1,565	1,518	227	217
Other Farm Machinery <u>8/</u>	77.9	84.4	5,101	4,710	741	673
Seeds & Plants <u>9/</u>	67.3	60.9	1,899	1,936	276	277
Trucks & Autos	13.4	9.4	857	832	124	119

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Production Expenditures: Major Input Items, Average per Farm  
and Total, Lake States Region, 1992-93 12/

Expenditure - Farm Share	Farms		Average		Total	
	Reporting <u>10/</u> 1992	1993	per Farm <u>11/</u> 1992	1993	Expenditure <u>2/</u> 1992	1993
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/ 3/</u>	100.0	100.0	70,104	75,115	15,493	16,375
Livestock, Poultry & Related Expenses <u>4/</u>	35.8	42.0	4,151	4,926	917	1,074
Feed	60.6	60.9	8,918	9,593	1,971	2,091
Farm Services, excluding Rent <u>5/</u>	92.5	95.2	8,754	10,075	1,935	2,196
Rent	40.7	40.3	5,424	5,872	1,199	1,280
Agricultural Chemicals <u>6/</u>	66.6	62.5	3,016	3,323	667	725
Fertilizer, Lime & Soil Conditioners <u>6/</u>	66.9	61.3	4,078	4,230	901	922
Interest	59.2	66.1	5,798	5,492	1,281	1,197
Taxes (Real Estate & Property)	98.0	99.9	4,062	4,256	898	928
Labor	40.1	38.3	5,681	5,861	1,256	1,278
Fuels & Lubricants	85.5	88.1	2,667	2,793	589	609
Farm Supplies <u>7/</u>	76.2	71.0	1,888	1,859	417	405
Building & Fencing	45.6	42.8	1,767	1,843	390	402
Farm & Land Improvements	37.2	37.2	481	794	106	173
Tractors and Self-Propelled Farm Machinery	21.4	14.9	2,764	2,824	611	616
Other Farm Machinery <u>8/</u>	79.0	76.4	6,095	6,562	1,347	1,431
Seeds & Plants <u>9/</u>	69.2	69.0	3,174	3,454	701	753
Trucks & Autos	14.4	13.7	1,169	1,203	258	262

See footnotes on page 21 of publication.

Production Expenditures: Major Input Items, Average per Farm  
and Total, Corn Belt Region, 1992-93 12/

Expenditure - Farm Share	Farms		Average		Total	
	Reporting <u>10/</u> 1992	1993	per Farm <u>11/</u> 1992	1993	Expenditure <u>2/</u> 1992	1993
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/ 3/</u>	100.0	100.0	72,566	75,292	31,421	31,999
Livestock, Poultry & Related Expenses <u>4/</u>	40.9	35.6	5,926	6,189	2,566	2,630
Feed	67.0	56.7	9,603	9,788	4,158	4,160
Farm Services, excluding Rent <u>5/</u>	96.4	96.5	6,158	7,396	2,666	3,143
Rent	44.0	44.3	13,530	12,805	5,858	5,442
Agricultural Chemicals <u>6/</u>	71.6	60.5	3,809	4,000	1,649	1,700
Fertilizer, Lime & Soil Conditioners <u>6/</u>	73.0	66.2	5,599	5,622	2,424	2,389
Interest	58.3	63.4	5,035	4,778	2,180	2,031
Taxes (Real Estate & Property)	97.5	99.9	3,131	3,275	1,356	1,392
Labor	37.0	36.5	3,024	3,254	1,310	1,383
Fuels & Lubricants	90.7	85.4	2,531	2,646	1,096	1,125
Farm Supplies <u>7/</u>	70.7	69.2	972	999	421	424
Building & Fencing	50.5	47.4	1,313	1,495	568	635
Farm & Land Improvements	38.6	39.1	629	990	273	421
Tractors and Self-Propelled Farm Machinery	16.0	15.3	2,170	2,348	939	998
Other Farm Machinery <u>8/</u>	80.0	79.5	4,805	5,075	2,080	2,157
Seeds & Plants <u>9/</u>	72.5	65.6	3,338	3,606	1,445	1,533
Trucks & Autos	13.9	16.1	876	941	379	400

See footnotes on page 21 of publication.

Production Expenditures: Major Input Items, Average per Farm  
and Total, Northern Plains Region, 1992-93 12/

Expenditure - Farm Share	Farms		Average		Total	
	Reporting <u>10/</u> 1992	1993	per Farm <u>11/</u> 1992	1993	Expenditure <u>2/</u> 1992	1993
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/</u> <u>3/</u>	100.0	100.0	90,901	98,021	17,362	18,379
Livestock, Poultry & Related Expenses <u>4/</u>	46.8	53.3	17,190	18,662	3,283	3,499
Feed	67.8	71.4	9,676	10,125	1,848	1,899
Farm Services, excluding Rent <u>5/</u>	97.5	96.7	9,609	10,908	1,835	2,045
Rent	56.5	63.8	11,740	12,516	2,242	2,347
Agricultural Chemicals <u>6/</u>	73.8	71.1	3,533	3,643	675	683
Fertilizer, Lime & Soil Conditioners <u>6/</u>	68.5	60.5	4,705	4,917	899	922
Interest	63.7	66.7	6,335	6,002	1,210	1,125
Taxes (Real Estate & Property)	95.0	97.5	3,967	4,528	758	849
Labor	36.9	41.4	2,945	3,218	562	603
Fuels & Lubricants	92.4	94.2	4,208	4,119	804	772
Farm Supplies <u>7/</u>	74.3	68.5	1,434	1,429	274	268
Building & Fencing	46.6	50.6	1,065	1,152	204	216
Farm & Land Improvements	34.9	40.8	539	894	103	168
Tractors and Self-Propelled Farm Machinery	18.1	20.7	2,673	3,106	511	582
Other Farm Machinery <u>8/</u>	88.7	85.7	7,170	8,279	1,369	1,552
Seeds & Plants <u>9/</u>	71.0	67.5	2,640	2,835	504	532
Trucks & Autos	22.6	20.7	1,423	1,648	272	309

See footnotes on page 21 of publication.

Production Expenditures: Major Input Items, Average per Farm  
and Total, Appalachian Region, 1992-93 12/

Expenditure - Farm Share	Farms		Average		Total	
	Reporting <u>10/</u> 1992	1993	per Farm <u>11/</u> 1992	1993	Expenditure <u>2/</u> 1992	1993
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/ 3/</u>	100.0	100.0	32,409	35,258	9,820	10,542
Livestock, Poultry & Related Expenses <u>4/</u>	32.4	38.2	3,112	3,412	943	1,020
Feed	76.7	74.7	5,103	5,745	1,546	1,718
Farm Services, excluding Rent <u>5/</u>	93.5	97.5	3,814	4,446	1,156	1,329
Rent	26.4	26.3	2,540	2,528	770	756
Agricultural Chemicals <u>6/</u>	62.0	65.9	1,202	1,298	364	388
Fertilizer, Lime & Soil Conditioners <u>6/</u>	72.6	80.1	2,063	2,144	625	641
Interest	33.0	38.4	1,815	1,864	550	557
Taxes (Real Estate & Property)	94.2	96.7	913	1,017	277	304
Labor	41.7	44.4	3,076	3,266	932	977
Fuels & Lubricants	89.3	93.3	1,327	1,357	402	406
Farm Supplies <u>7/</u>	61.7	64.1	703	728	213	218
Building & Fencing	53.5	62.7	1,024	1,178	310	352
Farm & Land Improvements	27.9	30.5	269	459	81	137
Tractors and Self-Propelled Farm Machinery	11.6	13.0	1,236	1,301	375	389
Other Farm Machinery <u>8/</u>	67.8	78.6	2,632	2,781	797	832
Seeds & Plants <u>9/</u>	56.3	64.8	840	886	255	265
Trucks & Autos	11.5	13.0	688	810	208	242

See footnotes on page 21 of publication.

Production Expenditures: Major Input Items, Average per Farm  
and Total, Southeast Region, 1992-93 12/

Expenditure - Farm Share	Farms Reporting <u>10/</u> 1992 : 1993		Average per Farm <u>11/</u> 1992 : 1993		Total Expenditure <u>2/</u> 1992 : 1993	
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/ 3/</u>	100.0	100.0	58,746	66,149	9,135	10,273
Livestock, Poultry & Related Expenses <u>4/</u>	31.3	33.0	3,518	3,929	547	610
Feed	71.6	66.4	10,510	11,457	1,634	1,779
Farm Services, excluding Rent <u>5/</u>	93.0	94.9	6,916	8,431	1,075	1,309
Rent	27.4	33.6	2,464	2,683	383	417
Agricultural Chemicals <u>6/</u>	54.4	54.3	3,487	4,099	542	637
Fertilizer, Lime & Soil Conditioners <u>6/</u>	76.1	79.5	4,423	4,726	688	734
Interest	34.5	36.1	3,064	2,968	477	461
Taxes (Real Estate & Property)	87.5	96.0	1,531	1,864	238	290
Labor	34.4	38.0	8,338	9,723	1,297	1,510
Fuels & Lubricants	85.4	84.3	2,207	2,247	343	349
Farm Supplies <u>7/</u>	55.0	52.6	1,570	1,902	244	295
Building & Fencing	52.4	54.5	1,511	1,620	235	252
Farm & Land Improvements	23.2	27.7	604	936	94	145
Tractors and Self-Propelled Farm Machinery	14.5	12.6	1,653	1,951	257	303
Other Farm Machinery <u>8/</u>	70.6	70.4	3,109	3,663	483	569
Seeds & Plants <u>9/</u>	50.2	53.3	2,448	2,572	381	399
Trucks & Autos	12.6	11.4	1,080	1,147	168	178

See footnotes on page 21 of publication.

Production Expenditures: Major Input Items, Average per Farm  
and Total, Delta States Region, 1992-93 12/

Expenditure - Farm Share	Farms		Average		Total	
	Reporting <u>10/</u>	1993	per Farm <u>11/</u>	1993	Expenditure <u>2/</u>	1993
	1992	1993	1992	1993	1992	1993
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/ 3/</u>	100.0	100.0	70,754	78,535	8,066	8,953
Livestock, Poultry & Related Expenses <u>4/</u>	42.3	46.8	6,220	8,039	709	916
Feed	78.2	73.0	13,996	16,607	1,596	1,893
Farm Services, excluding Rent <u>5/</u>	86.5	93.3	9,600	11,303	1,094	1,289
Rent	31.7	28.0	6,664	6,863	760	782
Agricultural Chemicals <u>6/</u>	49.9	48.5	5,754	5,533	656	631
Fertilizer, Lime & Soil Conditioners <u>6/</u>	63.0	70.9	3,789	3,691	432	421
Interest	36.8	35.6	3,142	3,044	358	347
Taxes (Real Estate & Property)	76.4	86.2	1,018	1,181	116	135
Labor	37.5	35.4	5,248	5,547	598	632
Fuels & Lubricants	87.8	93.6	2,791	2,839	318	324
Farm Supplies <u>7/</u>	57.5	52.7	879	967	100	110
Building & Fencing	62.0	59.3	939	1,253	107	143
Farm & Land Improvements	31.3	33.7	395	663	45	76
Tractors and Self-Propelled Farm Machinery	10.8	15.9	2,615	2,779	298	317
Other Farm Machinery <u>8/</u>	64.6	77.7	4,464	4,790	509	546
Seeds & Plants <u>9/</u>	49.0	59.8	1,870	1,864	213	213
Trucks & Autos	14.8	14.1	1,233	1,452	141	166

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Production Expenditures: Major Input Items, Average per Farm  
and Total, Southern Plains Region, 1992-93 12/

Expenditure - Farm Share	Farms		Average		Total	
	Reporting <u>10/</u> 1992	1993	per Farm <u>11/</u> 1992	1993	Expenditure <u>2/</u> 1992	1993
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/ 3/</u>	100.0	100.0	52,429	56,793	13,317	14,539
Livestock, Poultry & Related Expenses <u>4/</u>	47.0	50.6	9,282	11,661	2,358	2,985
Feed	86.0	84.6	7,800	7,782	1,981	1,992
Farm Services, excluding Rent <u>5/</u>	97.7	98.2	7,759	8,553	1,971	2,190
Rent	38.5	35.2	3,898	3,838	990	983
Agricultural Chemicals <u>6/</u>	58.0	34.0	1,528	1,472	388	377
Fertilizer, Lime & Soil Conditioners <u>6/</u>	60.3	61.5	2,482	2,550	631	653
Interest	43.8	49.4	2,980	3,076	757	787
Taxes (Real Estate & Property)	98.7	97.9	1,494	1,627	380	416
Labor	37.8	35.6	3,715	3,779	944	967
Fuels & Lubricants	91.7	93.0	2,276	2,385	578	611
Farm Supplies <u>7/</u>	61.0	51.2	713	809	181	207
Building & Fencing	59.2	62.8	951	1,157	242	296
Farm & Land Improvements	30.8	39.2	545	893	138	229
Tractors and Self-Propelled Farm Machinery	10.5	11.6	1,415	1,546	360	396
Other Farm Machinery <u>8/</u>	76.8	74.0	3,043	3,116	773	798
Seeds & Plants <u>9/</u>	46.5	41.6	1,131	1,105	287	283
Trucks & Autos	16.2	14.6	1,356	1,397	345	358

See footnotes on page 21 of publication.

Production Expenditures: Major Input Items, Average per Farm  
and Total, Mountain Region, 1992-93 12/

Expenditure - Farm Share	Farms Reporting <u>10/</u>		Average per Farm <u>11/</u>		Total Expenditure <u>2/</u>	
	1992	1993	1992	1993	1992	1993
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/ 3/</u>	100.0	100.0	83,098	93,902	9,764	10,949
Livestock, Poultry & Related Expenses <u>4/</u>	48.8	46.2	10,521	13,215	1,236	1,541
Feed	71.0	64.9	10,139	10,738	1,191	1,252
Farm Services, excluding Rent <u>5/</u>	97.3	99.1	13,953	16,527	1,640	1,927
Rent	41.5	38.5	6,011	6,566	706	766
Agricultural Chemicals <u>6/</u>	56.7	51.2	2,174	2,413	256	281
Fertilizer, Lime & Soil Conditioners <u>6/</u>	46.2	52.6	3,450	3,716	405	433
Interest	58.8	66.0	7,228	7,288	849	850
Taxes (Real Estate & Property)	93.5	96.3	2,765	3,087	325	360
Labor	43.4	45.2	7,414	9,032	871	1,053
Fuels & Lubricants	89.5	90.7	3,585	3,539	421	413
Farm Supplies <u>7/</u>	76.2	71.9	1,785	2,071	210	242
Building & Fencing	61.5	44.2	1,464	1,548	172	181
Farm & Land Improvements	41.0	41.1	1,030	1,679	121	196
Tractors and Self-Propelled Farm Machinery	12.0	14.2	2,289	2,409	269	281
Other Farm Machinery <u>8/</u>	80.6	83.7	5,537	5,889	651	687
Seeds & Plants <u>9/</u>	47.6	52.0	2,174	2,340	255	273
Trucks & Autos	20.5	18.9	1,454	1,732	171	202

See footnotes on page 21 of publication.

Production Expenditures: Major Input Items, Average per Farm  
and Total, Pacific Region, 1992-93 12/

Expenditure - Farm Share	Farms		Average		Total	
	Reporting <u>10/</u>	1993	per Farm <u>11/</u>	1993	Expenditure <u>2/</u>	1993
	Percent		Dollars		Million Dollars	
Total Farm Production Expenditures <u>2/ 3/</u>	100.0	100.0	135,061	157,396	21,137	23,452
Livestock, Poultry & Related Expenses <u>4/</u>	33.9	31.5	7,027	8,931	1,100	1,331
Feed	54.7	42.6	14,272	17,898	2,234	2,667
Farm Services, excluding Rent <u>5/</u>	96.3	99.0	23,688	30,225	3,707	4,504
Rent	31.0	28.9	8,991	9,816	1,407	1,463
Agricultural Chemicals <u>6/</u>	61.7	61.7	6,457	7,064	1,011	1,053
Fertilizer, Lime & Soil Conditioners <u>6/</u>	54.5	63.1	5,633	5,959	882	888
Interest	52.5	49.0	9,394	9,967	1,470	1,485
Taxes (Real Estate & Property)	95.2	99.0	4,015	4,723	628	704
Labor	42.9	59.5	30,236	33,758	4,732	5,030
Fuels & Lubricants	88.0	90.7	3,806	4,081	596	608
Farm Supplies <u>7/</u>	71.6	67.1	3,736	4,087	585	609
Building & Fencing	47.9	40.2	2,205	2,458	345	366
Farm & Land Improvements	38.1	36.7	1,992	3,605	312	537
Tractors and Self-Propelled Farm Machinery	11.1	15.6	2,132	2,293	334	342
Other Farm Machinery <u>8/</u>	74.8	73.3	6,067	6,417	950	956
Seeds & Plants <u>9/</u>	43.2	44.1	3,721	4,186	582	624
Trucks & Autos	14.7	14.7	1,494	1,776	234	265

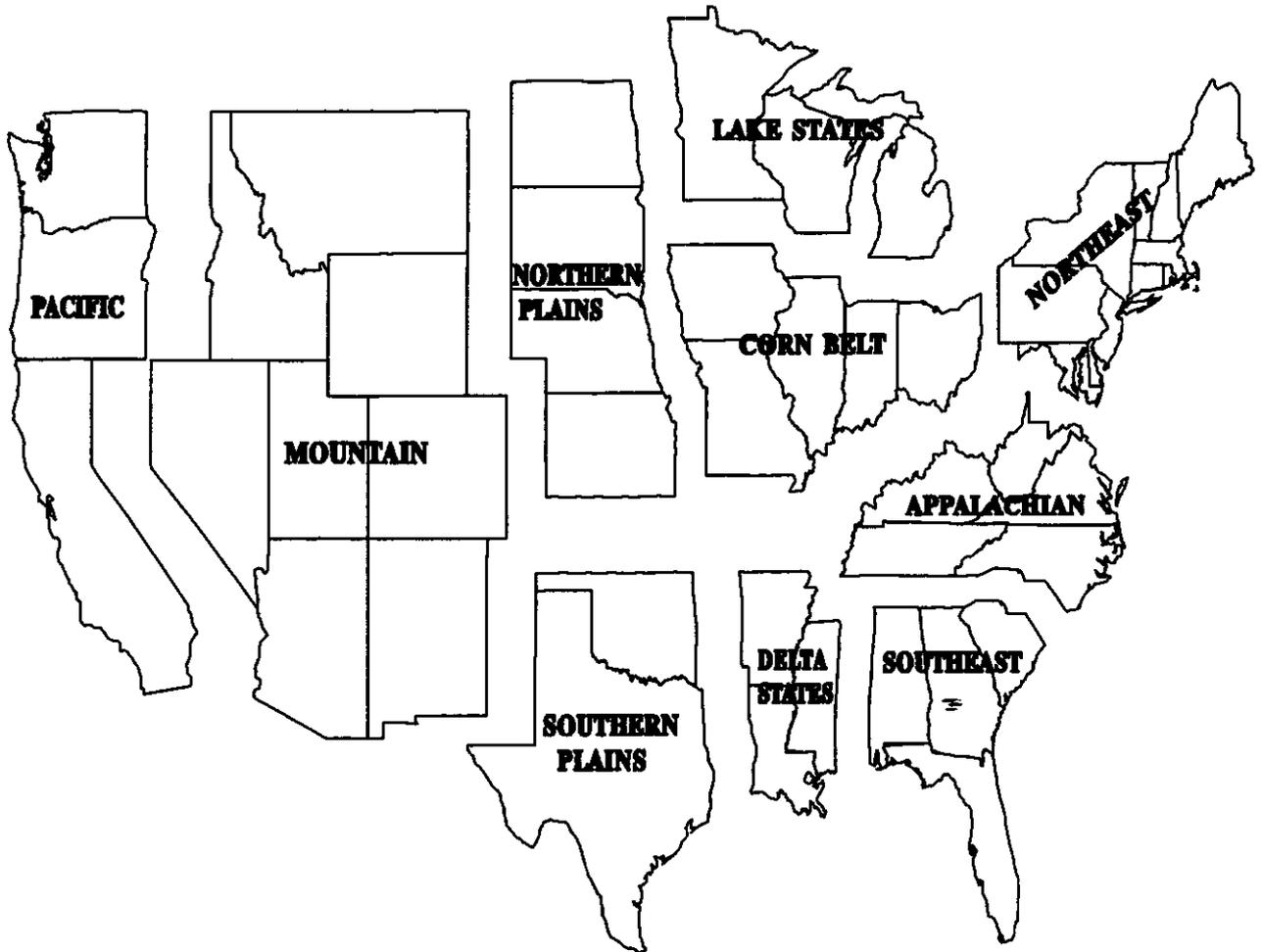
See footnotes on page 21 of publication.

## Footnotes

- 1/ Excludes AK and HI.
- 2/ Total includes production costs not allocated to any of the 17 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 and grazing fees, transportation costs, marketing charges, insurance, leasing of machinery and equipment, miscellaneous business expenses, and utilities.
- 6/ Includes materials and applications cost.
- 7/ Includes bedding and litter, miscellaneous non-capital equipment and supplies, and power farm shop equipment.
- 8/ Includes repairs and maintenance of livestock and poultry equipment and purchases of capital equipment for livestock and poultry.
- 9/ Excludes bedding plants, nursery stock, and seed purchased for resale. Includes seed treatment.
- 10/ Number of farms reporting item divided by total number of farms.
- 11/ Total expenditures divided by total number of farms.
- 12/ 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 Expenditures Regions



Northeast  
 Lake States  
 Corn Belt  
 Northern Plains  
 Appalachian  
 Southeast  
 Delta States  
 Southern Plains  
 Mountain  
 Pacific

CT. DE. ME. MD. MA. NH. NJ. NY. PA. RI. VT.  
 MI. MN. WI.  
 IL. IN. IA. MO. OH.  
 KS. NE. ND. SD.  
 KY. NC. TN. VA. WV.  
 AL. FL. GA. SC.  
 AR. LA. MS.  
 OK. TX.  
 AZ. CO. ID. MT. NV. NM. UT. WY.  
 CA. OR. WA.

## Estimating Procedures and Reliability

**Program Changes:** The National Agricultural Statistics Service (NASS) initiated an estimation program in calendar year 1993 for farm production expenditures. Prior year's Farm Production Expenditure publications included only survey indications for expenditures at the U.S. level and other geographic, size, and type of farm levels. Estimates are now published based on survey indications and other check data for major groupings of farm production expenses for the U.S., 10 Farm Production Regions, 5 U.S. Economic Sales Classes, and U.S. Crop and Livestock Farms. Previous year's data are subject to revision as additional indications and check data are available.

Research completed by NASS in 1992 identified a downward bias in the data adjustment procedures for survey nonresponse. Also, further analysis of the Farm Costs and Returns Survey (FCRS) data indicated that the survey procedures were not providing total coverage of the farm population, especially smaller farms with less than \$20,000 in annual gross sales. After evaluating data from the nonresponse research and materials related to farm coverage, the decision was made to incorporate both a new nonresponse adjustment and an undercoverage adjustment. The new nonresponse adjustments assume that nonrespondents, namely refusals and inaccessibles, represent actual farms with positive data and should be adjusted for as such. Field interviewers verify that refusals and inaccessibles have positive farm data. The undercoverage adjustment involves adjusting the FCRS expanded number of farms to the official Board number of farms published in the Farms Numbers and Land in Farms release. The coverage adjustment expands number of farms by sales class in each of the 10 economic production regions. The new method of adjusting for nonresponse tends to increase data expansions for major expenditure items by an additional 5 to 8 percent compared with the previous nonresponse adjustment.

This year the definition of the estimate for labor expenditures has been revised to more accurately reflect actual outlays to farm labor. In prior years, the estimates included only wages paid to farm operators which may well have included "draws" from the operation. Wages paid to farm operators are included if the operation is a cooperative or non-family corporation. Estimates for this item have been revised back to 1989 at the U.S. level to provide data users a more useful data series.

Also for the 1993 survey, a machine imputation procedure was implemented for marketing expenses, a component of farm services, and landlord paid taxes. These expenditure items have the highest incidence of missing values. An imputation procedure has been utilized for selected income data cells for some time. Missing data are imputed by computing mean values for operations reporting a positive value for the item and then grouping the positive records by selected operating characteristics (e.g. sales class, farm type, and state).

**Survey Procedures:** The farm production expenditure data contained in this publication are the result of a sample survey of over 14,000 farms and ranches contacted in February and March of 1994 in all States except Alaska and Hawaii. The Farm Costs and Returns 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 are not only traditional

agricultural operations such as grain farms and dairy operations, but also specialty farms such as orchards, nurseries, and those producing fish in captivity.

The Farm Costs and Returns 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 Farm Costs and Returns Survey period to insure 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. The computer generated imputation has not been implemented for all expenditure data because NASS analysis has shown that 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 1992 and 1993 farm production expenditures for the U.S., 10 Farm Production Expenditure Regions, 5 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 1989 to provide data users a comparable data series.

Some of the expenditure estimates published in this report will differ from production expense estimates published in the Economic Research Service's "Economic Indicators of the Farm Sector". 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). 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.

**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 1993 total expenditures, the relative sampling errors were as follows for the different domains estimated: at the U.S. level 2.7 percent; from 3.7 to 12.3 percent at the Regional level; from 3.6 to 6.3 percent at the U.S. Economic Sales Class level; 3.1 percent for Crop Farms; and 4.5 percent for Livestock Farms. For 1992 total expenditures, the relative sampling errors were as follows for the different domains estimated: at the U.S. level 2.4 percent; from 5.2 to 10.3 percent at the Regional level; from 4.0 to 4.7 percent at the U.S. Economic Sales Class level; 3.0 percent for Crop Farms; and 3.8 percent for Livestock Farms. The relative sampling errors for major expense items at the U.S. level typically range from 2.0 to 6.0 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.

Farm Production Expenditures: Major Input Items by Value,  
United States, 1989-93 1/

Expenditure - Farm Share	1989	1990	1991	1992	1993
	Million Dollars				
Total Farm Production Expenditures <u>2/ 3/</u>	134,340	145,240	146,170	144,800	154,880
Livestock, Poultry & Related Expenses <u>4/</u>	14,320	15,480	14,300	14,200	16,200
Feed	20,700	20,400	19,300	20,100	21,400
Farm Services, excluding Rent <u>5/</u>	16,400	17,650	18,800	18,300	21,300
Rent	12,340	13,480	14,200	14,600	14,500
Agricultural Chemicals <u>6/</u>	5,020	5,370	6,300	6,450	6,700
Fertilizer, Lime & Soil Conditioners <u>6/</u>	8,180	8,210	8,630	8,300	8,370
Interest	9,100	10,490	10,400	9,600	9,300
Taxes (Real Estate & Property)	4,540	5,300	5,280	5,490	5,900
Labor	11,600	13,800	13,600	13,700	14,700
Fuels & Lubricants	4,820	5,810	5,750	5,460	5,540
Farm Supplies <u>7/</u>	2,360	3,030	3,150	2,950	3,080
Building & Fencing	2,490	2,990	2,930	2,950	3,200
Farm & Land Improvements	970	1,270	1,300	1,350	2,200
Tractors and Self-Propelled Farm Machinery	4,300	4,340	4,120	4,180	4,440
Other Farm Machinery <u>8/</u>	9,760	10,390	10,300	9,700	10,200
Seeds & Plants <u>9/</u>	4,400	4,500	5,100	4,900	5,150
Trucks & Autos	2,360	2,550	2,400	2,300	2,500

See footnotes on page 21 of publication.

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The next "Farm Production Expenditures" report will be released in July 1995.

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