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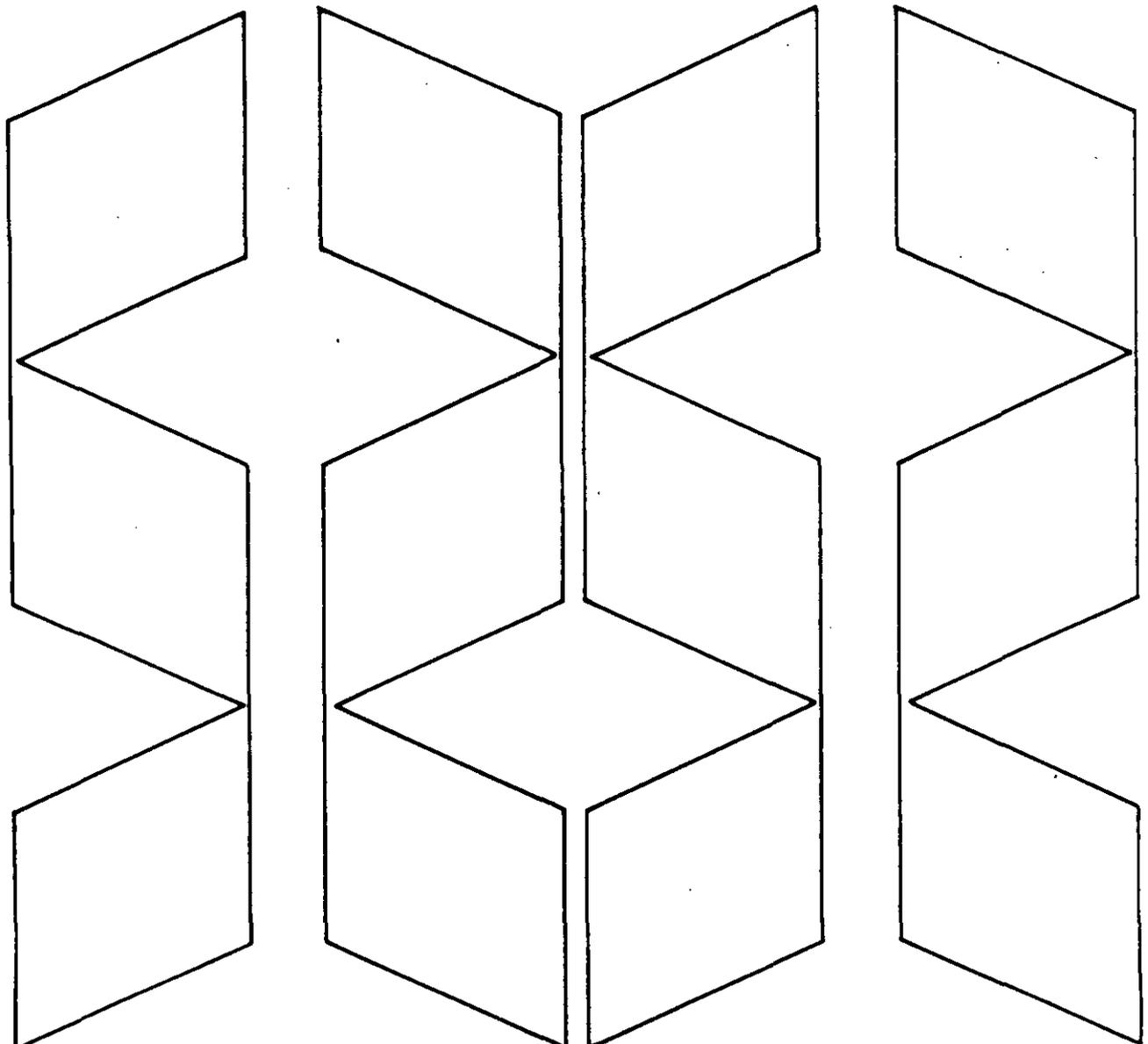


Fact Finding
for Agriculture

January 1990
CrPr 2-1 (90)

Crop Production

1989 Summary



HIGHLIGHTS

CORN FOR GRAIN: Production in 1989 is estimated at 7.53 billion bushels, up 53 percent from the drought reduced crop of 1988. The U.S. yield is 116.2 bushels per acre, up 31.6 bushels from last year, but only 3.6 bushels below the record high yield of 119.8 set in 1987.

SORGHUM FOR GRAIN: Production in 1989 is estimated at 618 million bushels, up 7 percent from 1988. The U.S. yield is 55.4 bushels per acre, down 8.4 bushels from last year and the lowest yield since 1983. A portion of the crop was planted late and did not have the benefit of a full growing season.

OATS: Production of oats in 1989 is estimated at 374 million bushels 72 percent above the drought reduced 1988 crop. Yields averaged 54.4 bushels per acre, up 15.1 bushels from last year's yield of 39.3 bushels.

BARLEY: Production in 1989 is estimated at 403 million bushels, 39 percent above last year's crop of 290 million bushels. Average yield per acre is 48.6 bushels, up 10.6 bushels from the 1988 yield.

ALL HAY: Production of all hay is estimated at 145 million tons, an increase of 15 percent from last year but 1 percent less than in 1987. The increase in production from last year's drought reduced crop came from higher yields which were partially offset by lower acreage.

ALL WHEAT: The 1989 production is estimated at 2.04 billion bushels, up 12 percent from 1988. Yields averaged 35.1 bushels per acre, 4.1 bushels per acre less than in 1988.

RICE: Production of rice in 1989 is estimated at 154 million hundredweight, 3 percent below 1988 but 19 percent above 1987. Yield averaged a record high 5,749 pounds per acre, up 235 pounds from last year.

TOBACCO: All tobacco production totaled 1.41 billion pounds, 3 percent above 1988 and up 19 percent from the 1987 crop. The higher production from a year ago resulted from increased acreage which was partly offset by lower yields.

SOYBEANS: The 1989 soybean production totaled 1.93 billion bushels, 24 percent above the drought stricken 1988 crop, but 1 percent below the 1987 production. The 1989 average yield was 32.4 bushels per acre, 5.4 bushels above the 1988 average and the fourth highest of record.

ALL COTTON: Production of Upland and American-Pima cotton in 1989 is estimated at 12.2 million bales, down 21 percent from 1988. The American-pima production, at 663 thousand bales, is a record high.

PEANUTS: Production of Peanuts in 1989 totaled 4.03 billion pounds, 1 percent above the 1988 crop. Area harvested was up 1 percent from 1988 and yield, at 2,460 pounds, was 15 pounds per acre more than last year.

DRY BEANS: Production of dry edible beans in 1989 is set at 24.1 million cwt, up 24 percent from 1988 but 7 percent below 1987.

ALL POTATOES: U.S. producers harvested 370 million cwt of potatoes during 1989, up 4 percent from the previous year but 5 percent less than two years ago.

UNITED STATES CROP SUMMARY - AREA PLANTED AND HARVESTED
(DOMESTIC UNITS)

CROP	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
ALL CORN	66,200	67,717	72,296	59,505	58,250	64,781
CORN FOR GRAIN				5,994	8,294	6,606
CORN FOR SILAGE						
ALL SORGHUM	11,756	10,343	12,642	10,531	9,042	11,153
SORGHUM FOR GRAIN				429	518	510
SORGHUM FOR SILAGE						
OATS	17,907	13,910	12,080	6,888	5,533	6,874
BARLEY	10,929	9,831	9,175	9,957	7,636	8,303
ALL WHEAT	65,829	65,529	76,615	55,945	53,189	62,149
WINTER	48,806	48,800	55,091	39,332	39,800	41,469
DURUM	3,341	3,336	3,791	3,279	2,847	3,673
OTHER SPRING	13,682	13,393	17,733	13,334	10,542	17,007
RICE	2,356.0	2,933.0	2,731.0	2,333.0	2,900.0	2,687.0
RYE	2,428	2,374	2,014	671	595	479
ALL SOYBEANS	58,180	58,840	60,670	57,172	57,373	59,388
SOYBEANS FOR BEANS				463	226	177
FLAXSEED	470	275	210			
ALL PEANUTS	1,567.4	1,657.4	1,665.7	1,547.4	1,628.4	1,638.5
PEANUTS FOR NUTS				1,775.0	1,921.0	1,826.0
SUNFLOWER	1,805	2,038	1,880	10,030.3	11,948.2	9,489.3
ALL COTTON	10,397.2	12,514.8	10,560.7	9,893.7	11,759.1	9,119.8
UPLAND	10,259.3	12,325.2	10,186.7	136.6	189.1	369.5
AMER-PIMA	137.9	189.6	374.0	60,133	65,055	63,395
ALL HAY				25,435	26,750	25,939
ALFALFA				34,698	38,305	37,456
ALL OTHER				1,665.4	1,353.0	1,689.9
DRY EDIBLE BEANS	1,782.6	1,485.4	1,857.6	161.0	179.0	174.0
DRY EDIBLE PEAS	163.0	181.0	175.0	35.0	10.0	10.2
AUSTRIAN WINTER PEAS	44.0	13.0	12.2	142.0	71.0	92.0
LENTILS	143.0	72.0	94.0			
POTATOES						
WINTER	11.9	12.5	13.1	11.7	12.3	13.1
SPRING	84.6	80.9	92.3	82.8	79.8	88.9
SUMMER	103.5	96.4	96.9	100.5	91.8	93.2
FALL	1,116.6	1,094.9	1,101.8	1,098.4	1,075.4	1,086.4
TOTAL	1,316.6	1,284.7	1,304.1	1,293.4	1,259.3	1,281.6
SWEETPOTATOES	92.3	89.1	88.9	88.9	85.5	85.7
TOBACCO				586.3	634.0	688.6
SUGARBEETS	1,266.7	1,327.2	1,332.8	1,252.4	1,300.7	1,305.3
SUGARCANE FOR SUGAR AND SEED				823.6	845.3	857.7
PEPPERMINT OIL				67.0	80.5	100.8
SPEARMINT OIL				24.0	22.6	26.4
TARO (HAW)				.4	.4	.4
COFFEE (HAW)				2.1	2.2	2.3
HOPS				28.3	33.4	34.5
PRINCIPAL CROPS 1/	304,945	308,170	317,188	289,422	289,846	305,641

1/ CROPS INCLUDED IN PLANTED ACREAGE ARE CORN, SORGHUM, OATS, BARLEY, WHEAT, RICE, RYE, SOYBEANS, FLAXSEED, PEANUTS, SUNFLOWER, COTTON, ALL HAY, DRY EDIBLE BEANS, DRY EDIBLE PEAS, AUSTRIAN WINTER PEAS, LENTILS, POTATOES, SWEETPOTATOES, TOBACCO, SUGARCANE, AND SUGARBEETS; HARVESTED ACREAGE FOR WINTER WHEAT, RYE, ALL HAY, TOBACCO, AND SUGARCANE ARE USED IN COMPUTING TOTAL PLANTED ACREAGE. CROPS INCLUDED IN HARVESTED ACREAGE ARE CORN (FOR GRAIN AND SILAGE), SORGHUM (FOR GRAIN AND SILAGE), OATS, BARLEY, WHEAT, RICE, RYE, SOYBEANS, FLAXSEED, PEANUTS, SUNFLOWER, COTTON, ALL HAY, DRY EDIBLE BEANS, DRY EDIBLE PEAS, AUSTRIAN WINTER PEAS, LENTILS, POTATOES, SWEETPOTATOES, TOBACCO, SUGARCANE, AND SUGARBEETS.

UNITED STATES CROP SUMMARY - YIELD PER ACRE AND PRODUCTION
(DOMESTIC UNITS)

CROP AND UNIT	YIELD PER ACRE			PRODUCTION		
	1987	1988	1989	1987	1988	1989
				1,000		
CORN FOR GRAIN BU	119.8	84.6	116.2	7,131,300	4,928,681	7,527,152
CORN FOR SILAGE TON	14.4	9.5	13.1	86,442	78,791	86,243
SORGHUM FOR GRAIN BU	69.4	63.8	55.4	730,809	576,686	617,860
SORGHUM FOR SILAGE TON	12.4	10.1	10.4	5,307	5,252	5,304
OATS BU	54.3	39.3	54.4	373,713	217,600	373,778
BARLEY "	52.4	38.0	48.6	521,499	289,994	403,443
ALL WHEAT "	37.7	34.1	32.8	2,107,685	1,812,201	2,035,818
WINTER "	39.8	39.2	35.1	1,565,381	1,561,910	1,453,842
DURUM "	28.2	15.7	25.1	92,617	44,831	92,229
OTHER SPRING "	33.7	19.5	28.8	449,687	205,460	489,747
RICE CWT 1/	5,555	5,514	5,749	129,603	159,897	154,487
RYE BU	29.1	24.7	28.1	19,526	14,689	13,482
SOYBEANS FOR BEANS "	33.9	27.0	32.4	1,937,722	1,548,841	1,926,806
FLAXSEED "	16.1	7.1	7.7	7,444	1,615	1,355
PEANUTS FOR NUTS LB	2,337	2,445	2,460	3,616,010	3,980,917	4,030,050
SUNFLOWER "	1,469	933	981	2,608,150	1,791,970	1,791,260
ALL COTTON BALE 1/	706	619	619	14,759.9	15,411.5	12,233.3
UPLAND " 1/	702	615	609	14,475.3	15,077.3	11,570.3
AMER-PIMA " 1/	1,000	848	861	284.6	334.2	663.0
COTTONSEED TON				5,769.2	6,061.8	4,766.2
ALL HAY "	2.45	1.94	2.29	147,457	126,010	145,445
ALFALFA "	3.31	2.59	2.98	84,225	69,304	77,208
ALL OTHER "	1.82	1.48	1.82	63,232	56,706	68,237
DRY EDIBLE BEANS CWT 1/	1,563	1,423	1,440	26,031	19,253	24,333
DRY EDIBLE PEAS " 1/	2,102	2,161	2,232	3,385	3,868	3,883
WRINKLED SEED PEAS "				650	1,017	1,250
AUSTRIAN SEED PEAS " 1/	1,571	1,330	1,627	550	133	166
LENTILS "	1,263	1,259	1,262	1,794	894	1,161
POTATOES						
WINTER CWT	214	213	211	2,501	2,616	2,764
SPRING "	229	252	235	18,988	20,110	20,852
SUMMER "	227	220	236	22,833	20,154	22,002
FALL "	314	292	299	344,998	313,558	324,726
TOTAL "	301	283	289	389,320	356,438	370,344
SWEETPOTATOES	131	128	134	11,611	10,945	11,497
TOBACCO LB	2,028	2,160	2,054	1,188,868	1,369,500	1,414,179
SUGARBEETS TON	22.4	19.1	19.6	28,072	24,810	25,553
SUGARCANE FOR						
SUGAR AND SEED "	35.5	35.4	34.5	29,218	29,904	29,570
PEPPERMINT OIL LB	67	67	66	4,495	5,360	6,652
SPEARMINT OIL "	86	77	70	2,060	1,745	1,846
TARO (HAW) "	15,800	16,200	15,100	6,300	6,800	6,500
COFFEE (HAW) "	878	930	957	1,800	2,000	2,200
HOPS "	1,770	1,638	1,717	50,048.0	54,696.0	59,326.4

UNITED STATES CROP SUMMARY - AREA PLANTED AND HARVESTED
(METRIC UNITS)

CROP	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	HECTARES					
ALL CORN	26,790,500	27,404,400	29,257,300			
CORN FOR GRAIN				24,081,100	23,573,200	26,216,200
CORN FOR SILAGE				2,425,700	3,356,500	2,673,400
ALL SORGHUM	4,757,500	4,185,700	5,116,100			
SORGHUM FOR GRAIN				4,261,800	3,659,200	4,513,500
SORGHUM FOR SILAGE				173,600	209,600	206,400
OATS	7,246,800	5,629,200	4,888,700	2,787,500	2,239,100	2,781,800
BARLEY	4,422,900	3,978,500	3,713,000	4,029,500	3,090,200	3,360,100
ALL WHEAT	26,640,400	26,518,900	31,005,400	22,640,400	21,525,100	25,151,100
WINTER	19,751,300	19,748,900	22,294,800	15,917,300	16,106,700	16,782,100
DURUM	1,352,100	1,350,000	1,534,200	1,327,000	1,152,200	1,486,400
OTHER SPRING	5,537,000	5,420,000	7,176,400	5,396,100	4,266,200	6,882,600
RICE	953,400	1,187,000	1,105,200	944,100	1,173,600	1,087,400
RYE	982,600	960,700	815,000	271,500	240,800	193,800
ALL SOYBEANS	23,544,900	23,812,000	24,552,500			
SOYBEANS FOR BEANS				23,136,900	23,218,300	24,033,700
FLAXSEED	190,200	111,300	85,000	187,400	91,500	71,600
ALL PEANUTS	634,300	670,700	674,100			
PEANUTS FOR NUTS				626,200	659,000	663,100
SUNFLOWER	730,500	824,800	760,800	718,300	777,400	739,000
ALL COTTON	4,207,600	5,064,600	4,273,900	4,059,200	4,835,300	3,840,200
UPLAND	4,151,800	4,987,900	4,122,500	4,003,900	4,758,800	3,690,700
AMER-PIMA	55,800	76,700	151,400	55,300	76,500	149,500
ALL HAY				24,335,200	26,327,200	25,655,400
ALFALFA				10,293,300	10,825,500	10,497,300
ALL OTHER				14,041,900	15,501,700	15,158,100
DRY EDIBLE BEANS	721,400	601,100	751,800	674,000	547,500	683,900
DRY EDIBLE PEAS	66,000	73,200	70,800	65,200	72,400	70,400
AUSTRIAN WINTER PEAS	17,800	5,300	4,900	14,200	4,000	4,100
LENTILS	57,900	29,100	38,000	57,500	28,700	37,200
POTATOES						
WINTER	4,800	5,100	5,300	4,700	5,000	5,300
SPRING	34,200	32,700	37,400	33,500	32,300	36,000
SUMMER	41,900	39,000	39,200	40,700	37,200	37,700
FALL	451,900	443,100	445,900	444,500	435,200	439,700
TOTAL	532,800	519,900	527,800	523,400	509,700	518,700
SWEETPOTATOES	37,400	36,100	36,000	36,000	34,600	34,700
TOBACCO				237,300	256,600	278,700
SUGARBEETS	512,600	537,100	539,400	506,800	526,400	528,200
SUGARCANE FOR SUGAR AND SEED				333,300	342,100	347,100
PEPPERMINT OIL				27,100	32,600	40,800
SPEARMINT OIL				9,700	9,100	10,700
TARO (HAW)				200	200	200
COFFEE (HAW)				800	900	900
HOPS				11,500	13,500	14,000
PRINCIPAL CROPS 1/	123,408,200	124,713,400	128,363,200	117,126,100	117,298,000	123,689,700

1/ CROPS INCLUDED IN PLANTED ACREAGE ARE CORN, SORGHUM, OATS, BARLEY, WHEAT, RICE, RYE, SOYBEANS, FLAXSEED, PEANUTS, SUNFLOWER, COTTON, ALL HAY, DRY EDIBLE BEANS, DRY EDIBLE PEAS, AUSTRIAN WINTER PEAS, LENTILS, POTATOES, SWEETPOTATOES, TOBACCO, SUGARCANE, AND SUGARBEETS; HARVESTED ACREAGE FOR WINTER WHEAT, RYE, ALL HAY, TOBACCO, AND SUGARCANE ARE USED IN COMPUTING TOTAL PLANTED ACREAGE. CROPS INCLUDED IN HARVESTED ACREAGE ARE CORN (FOR GRAIN AND SILAGE), SORGHUM (FOR GRAIN AND SILAGE), OATS, BARLEY, WHEAT, RICE, RYE, SOYBEANS, FLAXSEED, PEANUTS, SUNFLOWER, COTTON, ALL HAY, DRY EDIBLE BEANS, DRY EDIBLE PEAS, AUSTRIAN WINTER PEAS, LENTILS, POTATOES, SWEETPOTATOES, TOBACCO, SUGARCANE, AND SUGARBEETS.

UNITED STATES CROP SUMMARY - YIELD PER HECTARE AND PRODUCTION
(METRIC UNITS)

CROP	YIELD PER HECTARE			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	METRIC TONS					
CORN FOR GRAIN	7.52	5.31	7.29	181,143,360	125,194,260	191,198,470
CORN FOR SILAGE	32.33	21.30	29.27	78,418,860	71,477,990	78,238,330
SORGHUM FOR GRAIN	4.36	4.00	3.48	18,563,400	14,648,500	15,694,370
SORGHUM FOR SILAGE	27.73	22.73	23.31	4,814,430	4,764,530	4,811,710
OATS	1.95	1.41	1.95	5,424,430	3,158,460	5,425,370
BARLEY	2.82	2.04	2.61	11,354,300	6,313,870	8,783,930
ALL WHEAT	2.53	2.29	2.20	57,361,780	49,320,020	55,405,890
WINTER	2.68	2.64	2.36	42,602,690	42,508,220	39,567,100
DURUM	1.90	1.06	1.69	2,520,620	1,220,100	2,510,060
OTHER SPRING	2.27	1.31	1.94	12,238,470	5,591,700	13,328,730
RICE	6.23	6.18	6.44	5,878,690	7,252,810	7,007,410
RYE	1.83	1.55	1.77	495,980	373,120	342,460
SOYBEANS FOR BEANS	2.28	1.82	2.18	52,736,150	42,152,540	52,439,070
FLAXSEED	1.01	.45	.48	189,090	41,020	34,420
PEANUTS FOR NUTS	2.62	2.74	2.76	1,640,190	1,805,710	1,828,000
SUNFLOWER	1.65	1.05	1.10	1,183,040	812,820	812,500
ALL COTTON	.79	.69	.69	3,213,590	3,355,460	2,663,470
UPLAND	.79	.69	.68	3,151,630	3,282,700	2,519,120
AMER-PIMA	1.12	.95	.97	61,960	72,760	144,350
COTTONSEED				5,233,730	5,499,170	4,323,820
ALL HAY	5.50	4.34	5.14	133,770,740	114,314,350	131,945,490
ALFALFA	7.42	5.81	6.67	76,407,630	62,871,530	70,041,920
ALL OTHER	4.09	3.32	4.08	57,363,110	51,442,820	61,903,570
DRY EDIBLE BEANS	1.75	1.60	1.61	1,180,750	873,300	1,103,730
DRY EDIBLE PEAS	2.35	2.42	2.50	153,540	175,450	176,130
WRINKLED SEED PEAS				29,480	46,130	56,700
AUSTRIAN SEED PEAS	1.76	1.51	1.84	24,950	6,030	7,530
LENTILS	1.42	1.41	1.42	81,370	40,550	52,660
POTATOES						
WINTER	24.14	23.73	23.65	113,440	118,660	125,370
SPRING	25.71	28.24	26.27	861,280	912,170	945,830
SUMMER	25.45	24.57	26.47	1,035,690	914,170	997,990
FALL	35.21	32.68	33.50	15,648,850	14,222,750	14,729,320
TOTAL	33.74	31.72	32.39	17,659,260	16,167,750	16,798,510
SWEETPOTATOES	14.63	14.35	15.03	526,670	496,460	521,500
TOBACCO	2.27	2.42	2.30	539,260	621,190	641,460
SUGARBEETS	50.25	42.76	43.89	25,466,490	22,507,250	23,181,290
SUGARCANE FOR						
SUGAR AND SEED	79.53	79.30	77.28	26,506,120	27,128,450	26,825,450
PEPPERMINT OIL	.08	.07	.07	2,040	2,430	3,020
SPEARMINT OIL	.10	.09	.08	930	790	840
TARO (HAW)	14.30	15.40	14.75	2,860	3,080	2,950
COFFEE (HAW)	1.03	1.01	1.11	820	910	1,000
HOPS	1.97	1.84	1.92	22,700	24,810	26,910

AREA HARVESTED, UNITED STATES, 1980-89

YEAR	CORN FOR GRAIN	SORGHUM FOR GRAIN	OATS	BARLEY	FEED GRAINS 1/	WHEAT			
						WINTER	DURUM	OTHER SPRING	
1,000 ACRES									
1980	72,961	12,513	8,657	7,260	101,391	51,635	4,840	14,650	
1981	74,524	13,677	9,407	9,038	106,646	58,476	5,655	16,511	
1982	72,719	14,137	10,258	9,013	106,127	57,633	4,177	16,127	
1983	51,479	10,001	9,062	9,721	80,263	47,584	2,492	11,314	
1984	71,897	15,355	8,163	11,218	106,633	51,513	3,219	12,196	
1985	75,209	16,782	8,147	11,591	111,729	47,923	3,094	13,687	
1986	68,907	13,862	6,840	11,974	101,583	43,170	2,877	14,641	
1987	59,505	10,531	6,888	9,957	86,881	39,332	3,279	13,334	
1988	58,250	9,042	5,533	7,636	80,461	39,800	2,847	10,542	
1989	64,781	11,153	6,874	8,303	91,111	41,469	3,673	17,007	
YEAR	RICE	RYE	FOOD GRAINS 2/	SOYBEANS FOR BEANS	FLAXSEED	CORN		SORGHUM	
						FOR SILAGE	FOR FORAGE	FOR SILAGE	FOR FORAGE
1,000 ACRES									
1980	3,312.0	650	75,087	67,813	663	9,299	584	734	1,412
1981	3,792.0	685	85,119	66,163	577	8,307	361	786	1,024
1982	3,262.0	677	81,876	69,442	735	8,252	307	603	914
1983	2,169.0	892	64,451	62,525	580	7,808	300	639	747
1984	2,802.0	979	70,709	66,113	538	7,535	329	609	679
1985	2,492.0	708	67,904	61,599	584	7,155	306	534	626
1986	2,360.0	661	63,709	58,312	683	6,418		499	
1987	2,333.0	671	58,949	57,172	463	5,994		429	
1988	2,900.0	595	56,684	57,373	226	8,294		518	
1989	2,687.0	479	65,315	59,388	177	6,606		510	
YEAR	PEANUTS FOR NUTS	SUNFLOWER 3/	COTTON	ALL HAY	DRY EDIBLE BEANS	DRY EDIBLE PEAS 4/	AUSTRIAN		LENTILS
							WINTER PEAS 5/		
1,000 ACRES									
1980	1,399.8	3,683	13,214.8	58,870	1,859.0				
1981	1,488.7	3,811	13,841.2	59,599	2,270.0				
1982	1,277.4	4,724	9,733.9	59,812	1,777.0				
1983	1,373.5	3,063	7,347.5	59,694	1,138.7				
1984	1,528.0	3,692	10,379.1	61,414	1,460.3				
1985	1,467.4	2,844	10,229.0	60,461	1,481.4				
1986	1,535.2	1,955	8,468.4	62,334	1,495.0	179.0	31.5	158.0	
1987	1,547.4	1,775	10,030.3	60,133	1,665.4	161.0	35.0	142.0	
1988	1,628.4	1,921	11,948.2	65,055	1,353.0	179.0	10.0	71.0	
1989	1,638.5	1,826	9,489.3	63,395	1,689.9	174.0	10.2	92.0	
YEAR	TARO	COFFEE	HOPS	PEPPERMINT	SPEARMINT				
1,000 ACRES									
1980	.3		1.7	37.1	81.3	31.3			
1981	.3		1.7	43.1	69.5	29.2			
1982	.4		1.9	39.6	60.9	22.8			
1983	.4		1.8	36.9	61.3	26.2			
1984	.4		1.7	30.8	67.2	27.9			
1985	.4		1.7	28.1	66.3	30.3			
1986	.4		2.0	25.0	65.4	28.7			
1987	.4		2.1	28.3	67.0	24.0			
1988	.4		2.2	33.4	80.5	22.6			
1989	.4		2.3	34.5	100.8	26.4			

SEE FOOTNOTE AT END OF TABLE.

CONTINUED

AREA HARVESTED, UNITED STATES, 1980-89 CONTINUED

YEAR	SUGARBEETS	SUGARCANE FOR SUGAR AND SEED	POTATOES	SWEETPOTATOES	TOBACCO
1,000 ACRES					
1980	1,189.5	732.7	1,147.8	102.2	921.0
1981	1,228.1	755.4	1,232.4	109.8	976.6
1982	1,026.8	741.7	1,266.9	115.4	912.7
1983	1,055.8	767.7	1,241.5	102.4	789.2
1984	1,096.3	747.3	1,297.8	102.9	791.7
1985	1,102.5	770.0	1,358.7	103.3	688.0
1986	1,192.2	796.2	1,220.2	90.8	580.6
1987	1,252.4	823.6	1,293.4	88.9	586.3
1988	1,300.7	845.3	1,259.3	85.5	634.0
1989	1,305.3	857.7	1,281.6	85.7	688.6

1/ CORN FOR GRAIN, SORGHUM FOR GRAIN, OATS AND BARLEY. 2/ WHEAT, RYE AND RICE. 3/ MINN, N DAK, S DAK, AND TEX. 4/ NOT AVAILABLE PRIOR TO 1986; IDAHO AND WASH. 5/ NOT AVAILABLE PRIOR TO 1986; IDAHO AND OREG.

PRINCIPAL CROPS AREA PLANTED AND HARVESTED, UNITED STATES, 1980-89

YEAR	PLANTED 1/	HARVESTED 2/
1,000 ACRES		
1980	355,677	340,103
1981	363,167	354,295
1982	358,708	349,644
1983	309,536	293,886
1984	345,110	335,654
1985	342,224	330,942
1986	327,301	311,240
1987	304,945	289,422
1988	308,170	289,846
1989	317,188	305,641

1/ CROP ACREAGES INCLUDED ARE PLANTED FOR CORN, SORGHUM, OATS, BARLEY, DURUM, AND OTHER SPRING WHEAT, RICE, SOYBEANS, FLAXSEED, PEANUTS, SUNFLOWER, COTTON, DRY EDIBLE BEANS, DRY EDIBLE PEAS (BEGINNING 1986), AUSTRIAN WINTER PEAS, (BEGINNING 1986), LENTILS (BEGINNING 1986), POTATOES, SWEETPOTATOES, AND SUGARBEETS; HARVESTED ACREAGE FOR WINTER WHEAT, RYE, ALL HAY, TOBACCO, AND SUGARCANE. 2/ CROP ACREAGES INCLUDED ARE CORN (FOR GRAIN AND SILAGE; FOR ALL CORN PRIOR TO 1984), SORGHUM (FOR GRAIN AND SILAGE; FOR ALL SORGHUM PRIOR TO 1984), OATS, BARLEY, WHEAT, RICE RYE, SOYBEANS, FLAXSEED, PEANUTS, SUNFLOWER, COTTON, ALL HAY, DRY EDIBLE BEANS, DRY EDIBLE PEAS (BEGINNING 1986), AUSTRIAN WINTER PEAS (BEGINNING 1986), LENTILS (BEGINNING 1986), POTATOES, SWEETPOTATOES, TOBACCO, SUGARCANE, AND SUGARBEETS.

CROP YIELDS PER ACRE HARVESTED, UNITED STATES, 1980-89

YEAR	CORN FOR GRAIN	SORGHUM FOR GRAIN	OATS	BARLEY	ALL WHEAT	RICE		
BUSHEL								
1980	91.0	46.3	53.0	49.7	33.5	4,413		
1981	108.9	64.0	54.2	52.4	34.5	4,819		
1982	113.2	59.1	57.8	57.2	35.5	4,710		
1983	81.1	48.7	52.6	52.3	39.4	4,598		
1984	106.7	56.4	58.0	53.3	38.8	4,954		
1985	118.0	66.8	63.6	50.9	37.5	5,414		
1986	119.4	67.7	56.3	50.8	34.4	5,651		
1987	119.8	69.4	54.3	52.4	37.7	5,555		
1988	84.6	63.8	39.3	38.0	34.1	5,514		
1989	116.2	55.4	54.4	48.6	32.8	5,749		
YEAR	RYE	SOYBEANS FOR BEANS	FLAXSEED	PEANUTS FOR NUTS	SUNFLOWER 1/	COTTON		
BUSHEL		POUNDS						
1980	24.6	26.5	11.7	1,645	1,016	404		
1981	26.6	30.1	12.6	2,675	1,177	543		
1982	28.9	31.5	14.0	2,693	1,129	590		
1983	30.3	26.2	11.9	2,399	1,044	508		
1984	33.1	28.1	13.1	2,883	1,014	600		
1985	28.8	34.1	14.2	2,810	1,109	630		
1986	28.8	33.3	16.9	2,408	1,369	552		
1987	29.1	33.9	16.1	2,337	1,469	706		
1988	24.7	27.0	7.1	2,445	933	619		
1989	28.1	32.4	7.7	2,460	981	619		
YEAR	ALL HAY	DRY EDIBLE BEANS	DRY EDIBLE PEAS 2/	AUSTRIAN WINTER PEAS 5/	LENTILS	POTATOES	SWEET-POTATOES	TOBACCO
POUNDS		CWT		POUNDS				
1980	2.22	1,438			265	107	1,939	
1981	2.39	1,443			276	117	2,113	
1982	2.50	1,439			280	129	2,185	
1983	2.36	1,363			269	118	1,811	
1984	2.45	1,443			279	125	2,183	
1985	2.46	1,505			299	141	2,197	
1986	2.49	1,536	1,785	1,429	1,199	296	136	2,001
1987	2.45	1,563	2,102	1,571	1,263	301	131	2,028
1988	1.94	1,423	2,161	1,330	1,259	283	128	2,160
1989	2.29	1,440	2,232	1,627	1,262	289	134	2,054
YEAR	SUGARBEETS	TARO	COFFEE	HOPS	PEPPERMINT	SPEARMINT		
TONS		POUNDS						
1980	19.8	21,300	847	2,040	57	68		
1981	22.4	20,300	1,300	1,840	60	75		
1982	20.3	18,000	521	1,980	60	59		
1983	19.9	14,700	1,556	1,850	63	61		
1984	20.2	19,100	1,029	1,820	64	72		
1985	20.4	17,200	1,121	1,770	66	77		
1986	21.1	16,200	1,500	1,960	67	93		
1987	22.4	15,800	878	1,770	67	86		
1988	19.1	16,200	930	1,638	67	77		
1989	19.6	15,100	957	1,717	66	70		

1/ MINN, N DAK, AND TEX. 2/ NOT AVAILABLE PRIOR TO 1986; IDAHO AND WASH. 3/ NOT AVAILABLE PRIOR TO 1986; IDAHO AND OREG.

CROP PRODUCTION, UNITED STATES, 1980-89

YEAR	CORN	SORGHUM	OATS	BARLEY	FEED	RYE
	FOR GRAIN	FOR GRAIN			GRAINS 1/	
	1,000 BUSHELS				1,000 TONS	1,000 BUSHELS
1980	6,639,396	579,343	458,792	361,135	218,133	15,958
1981	8,118,650	875,835	509,529	473,512	271,362	18,187
1982	8,235,101	835,083	592,630	515,935	275,830	19,533
1983	4,174,251	487,521	476,471	508,269	150,352	27,008
1984	7,672,130	866,241	473,661	598,034	261,006	32,407
1985	8,875,453	1,120,271	518,490	590,213	302,341	20,373
1986	8,225,764	938,869	384,996	608,532	277,374	19,067
1987	7,131,300	730,809	373,713	521,499	238,634	19,526
1988	4,928,681	576,686	217,600	289,994	164,592	14,689
1989	7,527,152	617,860	373,778	403,443	243,723	13,482

YEAR	WHEAT				RICE	FOOD	SOYBEANS
	WINTER	DURUM	OTHER SPRING	ALL		GRAINS 2/	
	1,000 BUSHELS				1,000 CWT	1,000 TONS	1,000 BUSHELS
1980	1,902,011	108,395	370,528	2,380,934	146,150	79,182	1,797,543
1981	2,097,057	183,040	505,260	2,785,357	182,742	93,207	1,989,110
1982	2,073,560	145,863	545,544	2,764,967	153,637	91,178	2,190,297
1983	1,988,304	72,979	358,541	2,419,824	99,720	78,337	1,635,772
1984	2,060,266	103,439	431,072	2,594,777	138,810	85,691	1,860,863
1985	1,826,625	112,510	484,980	2,424,115	134,913	80,040	2,099,056
1986	1,520,433	97,907	472,230	2,090,570	133,356	69,919	1,942,558
1987	1,565,381	92,617	449,687	2,107,685	129,603	70,257	1,937,722
1988	1,561,910	44,831	205,460	1,812,201	159,897	62,772	1,548,841
1989	1,453,842	92,229	489,747	2,035,818	154,487	69,176	1,926,806

YEAR	FLAXSEED	COTTON		ALL HAY	CORN FOR SILAGE	SORGHUM FOR SILAGE	DRY EDIBLE BEANS
		LINT 3/	SEED				
	1,000 BUSHELS	1,000 BALES	1,000 TONS		1,000 TONS		1,000 CWT
1980	7,728	11,122.1	4,471	130,740	111,990	7,003	26,729
1981	7,289	15,645.7	6,397	142,520	117,891	9,447	32,751
1982	10,278	11,962.7	4,744	149,241	117,782	7,403	25,563
1983	6,903	7,771.4	3,076	140,738	96,238	6,572	15,520
1984	7,022	12,981.8	5,149	150,582	104,491	6,472	21,070
1985	8,293	13,432.2	5,279	148,719	102,664	6,566	22,298
1986	11,538	9,731.1	3,801	155,385	90,227	5,878	22,960
1987	7,444	14,759.9	5,769	147,457	86,442	5,307	26,031
1988	1,615	15,411.5	6,062	126,010	78,791	5,252	19,253
1989	1,355	12,233.3	4,766	145,445	86,243	5,304	24,333

CROP PRODUCTION, UNITED STATES, 1980-89 CONTINUED

	DRY EDIBLE PEAS 4/	WRINKLED SEED PEAS 4/	AUSTRIAN WINTER PEAS 5/	LENTILS 4/	PEANUTS HARVESTED FOR NUTS	SUNFLOWER	POTATOES		
1,000 CWT									
1980					2,302,762	3,741,640	303,905		
1981					3,981,850	4,487,410	340,623		
1982					3,440,255	5,332,820	355,131		
1983					3,295,530	3,198,500	333,726		
1984					4,405,945	3,744,530	362,039		
1985					4,122,787	3,153,020	406,609		
1986	3,196	864	450	1,895	3,697,085	2,675,750	361,743		
1987	3,385	650	550	1,794	3,616,010	2,608,150	389,320		
1988	3,868	1,017	133	894	3,980,917	1,791,970	356,438		
1989	3,883	1,250	166	1,161	4,030,050	1,791,260	370,344		
	SWEET- POTATOES	TOBACCO	SUGARBEETS AND SEED	SUGARCANE FOR SUGAR	PEPPERMINT	SPEARMINT	TARO	COFFEE	HOPS
	1,000 CWT	1,000 POUNDS	1,000 TONS				1,000 POUNDS		
1980	10,953	1,786,225	23,502	26,963	4,611	2,139	6,400	1,440	75,560.0
1981	12,799	2,063,589	27,538	27,408	4,191	2,177	6,100	2,210	79,144.0
1982	14,833	1,994,494	20,894	29,770	3,668	1,355	6,460	990	78,588.0
1983	12,083	1,428,969	20,992	28,161	3,867	1,596	5,440	2,800	68,111.0
1984	12,902	1,727,962	22,134	27,340	4,334	2,019	6,310	1,750	56,167.0
1985	14,573	1,511,638	22,529	28,213	4,356	2,323	6,860	1,850	49,713.0
1986	12,368	1,161,940	25,150	30,311	4,376	2,666	6,330	3,000	48,962.0
1987	11,611	1,188,868	28,072	29,218	4,495	2,060	6,300	1,800	50,048.0
1988	10,945	1,369,500	24,810	29,904	5,360	1,745	6,800	2,000	54,696.0
1989	11,497	1,414,179	25,553	29,570	6,652	1,846	6,500	2,200	59,326.4

1/ CORN FOR GRAIN, SORGHUM FOR GRAIN, OATS AND BARLEY. 2/ WHEAT, RYE, AND RICE. 3/ 480-POUND NET WEIGHT BALES. 4/ NOT AVAILABLE PRIOR TO 1986; IDAHO AND WASH. 5/ NOT AVAILABLE PRIOR TO 1986; DAHO AND OREG. 6/ MINN, N DAK, S DAK, AND TEX.

AREA PLANTED AND HARVESTED, PRINCIPAL CROPS BY STATES, 1989
WITH COMPARISONS * 1/

STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	IND 1989	1987	1988	IND 1989
	1,000 ACRES			1,000 ACRES		
ALA	2,439	2,499	2,447	2,358	2,389	2,356
ARIZ	728	788	836	723	784	830
ARK	7,212	7,670	7,752	7,132	7,538	7,595
CALIF	5,391	5,552	5,358	4,950	5,107	4,891
COLORADO	5,883	5,750	5,818	5,634	5,609	5,677
CONN	137	131	134	132	124	128
DEL	525	516	554	514	504	537
FLA	1,140	1,155	1,169	1,108	1,115	1,137
GA	3,727	3,918	4,315	3,601	3,754	4,210
HAW	87	86	80	87	86	80
IDAHO	4,229	4,103	4,413	4,141	4,018	4,333
ILL	22,359	22,949	23,541	20,335	21,581	22,977
IND	11,347	11,507	11,817	10,781	11,082	11,631
IOWA	24,586	24,792	24,927	20,956	23,092	24,097
KANS	20,317	19,502	19,221	19,924	19,191	18,795
KY	5,039	5,103	5,551	4,975	4,968	5,491
LA	3,981	4,479	4,194	3,905	4,308	3,933
MAINE	367	356	373	356	346	364
MD	1,522	1,522	1,642	1,493	1,493	1,603
MASS	166	151	144	158	143	136
MICH	6,267	6,689	6,513	6,124	6,401	6,390
MINN	19,204	20,648	19,384	17,397	18,767	18,661
MISS	5,145	5,364	4,873	5,020	5,149	4,613
MO	12,611	12,878	13,391	12,436	12,684	13,249
MONT	9,673	8,342	9,787	9,242	7,118	9,475
NEBR	16,647	17,349	18,166	15,932	16,765	17,641
NEV	562	553	557	558	549	554
NH	104	101	95	102	99	93
NJ	389	381	390	381	368	380
NMEX	988	965	967	953	936	926
NY	3,700	3,482	3,617	3,628	3,439	3,560
NC	4,321	4,245	4,645	4,155	4,104	4,526
NDAK	20,107	19,808	21,998	19,415	16,216	20,660
OHIO	9,889	10,085	10,341	9,698	9,731	10,259
OKLA	8,510	8,649	9,556	8,353	8,482	9,380
OREG	2,310	2,233	2,402	2,257	2,168	2,339
PA	4,307	4,260	4,254	4,257	4,199	4,199
RI	13	12	10	13	11	10
SC	1,998	2,091	2,364	1,925	2,022	2,283
SDAK	15,017	15,191	16,120	14,601	13,508	15,294
TENN	4,532	4,650	4,641	4,463	4,548	4,564
TEX	17,650	17,988	19,136	16,267	16,527	16,644
UTAH	1,110	1,061	1,027	1,080	1,026	983
VT	477	465	453	465	453	442
VA	2,833	2,773	2,823	2,732	2,708	2,767
WASH	3,975	3,968	4,128	3,902	3,890	4,045
WVA	666	656	669	657	644	664
WIS	8,906	9,017	8,907	8,351	8,430	8,614
WYO	1,853	1,736	1,690	1,796	1,674	1,628
U S	304,945	308,170	317,188	289,422	289,846	305,641

* STATES MAY NOT ADD DUE TO ROUNDING. 1/ CROPS INCLUDED IN PLANTED ACREAGES ARE CORN, SORGHUM, OATS, BARLEY, RICE, RYE, SOYBEANS, FLAXSEED, PEANUTS, SUNFLOWER, COTTON, ALL HAY, DRY EDIBLE BEANS, DRY EDIBLE PEAS, AUSTRIAN WINTER PEAS, LENTILS, POTATOES, SWEETPOTATOES, TOBACCO, SUGARCANE, AND SUGARBEETS; HARVESTED ACREAGES FOR WINTER WHEAT, RYE, ALL HAY, TOBACCO, AND SUGARCANE ARE USED IN COMPUTING TOTAL PLANTED ACREAGE. CROPS INCLUDED IN HARVESTED ACREAGES ARE CORN (FOR GRAIN AND SILAGE), SORGHUM (FOR GRAIN AND SILAGE), OATS, BARLEY, WHEAT, RICE, RYE, SOYBEANS, FLAXSEED, PEANUTS, SUNFLOWER, COTTON, ALL HAY, DRY EDIBLE BEANS, DRY EDIBLE PEAS, AUSTRIAN WINTER PEAS, LENTILS, POTATOES, SWEET POTATOES, TOBACCO, SUGARCANE, AND SUGARBEETS.

CORN: ACREAGE

STATE	AREA PLANTED FOR ALL PURPOSES			AREA HARVESTED FOR GRAIN		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
ALA	300	240	230	250	170	180
ARIZ	23	19	20	15	13	13
ARK	70	65	62	65	60	58
CALIF	423	375	365	221	187	170
COLO	800	910	1,050	690	800	930
CONN	51	50	49	1/	1/	1/
DEL	165	150	140	148	140	133
FLA	140	100	115	105	65	80
GA	680	600	610	610	500	550
IDAHO	110	110	130	50	50	50
ILL	9,350	9,900	10,900	9,200	9,600	10,750
IND	5,000	5,200	5,350	4,880	5,000	5,200
IOWA	10,400	11,300	12,600	10,150	10,700	12,250
KANS	1,350	1,250	1,370	1,230	1,150	1,240
KY	1,300	1,300	1,330	1,140	1,100	1,180
LA	225	145	150	211	125	132
MAINE	37	32	33	1/	1/	1/
MD	560	520	480	460	420	400
MASS	40	39	38	1/	1/	1/
MICH	2,300	2,100	2,300	1,980	1,600	1,970
MINN	5,400	5,700	6,200	4,800	4,700	5,600
MISS	210	200	180	150	150	140
MO	2,250	2,200	2,400	2,150	2,020	2,290
MONT	80	90	80	15	20	4
NEBR	6,500	6,900	7,500	6,200	6,600	7,100
N H	21	19	19	1/	1/	1/
N J	105	95	95	85	79	71
N MEX	68	75	85	49	55	63
N Y	1,150	1,070	1,150	600	540	570
N C	1,250	1,100	1,050	1,100	970	950
N DAK	770	800	880	500	380	465
OHIO	3,300	3,300	3,150	3,100	3,000	2,900
OKLA	90	90	95	66	72	78
OREG	55	50	50	24	19	22
PA	1,550	1,480	1,380	1,090	910	960
R I	3	3	2	1/	1/	1/
S C	420	380	390	375	335	340
S DAK	3,050	3,150	3,400	2,650	2,400	2,650
TENN	730	680	650	580	530	530
TEX	1,300	1,500	1,650	1,250	1,350	1,400
UTAH	70	70	65	20	22	20
VT	89	90	88	1/	1/	1/
VA	575	530	510	325	295	365
WASH	120	120	130	80	80	90
W VA	90	85	85	50	40	46
WIS	3,550	3,450	3,600	2,800	1,950	2,800
WYO	80	85	90	41	53	41
U S	66,200	67,717	72,296	59,505	58,250	64,781

1/ NOT ESTIMATED.

CORN FOR GRAIN: YIELD AND PRODUCTION

STATE	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	BUSHEL			1,000 BUSHEL		
ALA	72.0	44.0	81.0	18,000	7,480	14,580
ARIZ	140.0	155.0	145.0	2,100	2,015	1,885
ARK	115.0	100.0	122.0	7,475	6,000	7,076
CALIF	160.0	145.0	160.0	35,360	27,115	27,200
COLO	155.0	160.0	145.0	106,950	128,000	134,850
DEL	75.0	70.0	100.0	11,100	9,800	13,300
FLA	69.0	58.0	74.0	7,245	3,770	5,920
GA	84.0	62.0	95.0	51,240	31,000	52,250
IDAHO	130.0	130.0	125.0	6,500	6,500	6,250
ILL	132.0	73.0	123.0	1,214,400	700,800	1,322,250
IND	135.0	83.0	133.0	658,800	415,000	691,600
IOWA	130.0	84.0	118.0	1,319,500	898,800	1,445,500
KANS	120.0	125.0	125.0	147,600	143,750	155,000
KY	104.0	73.0	116.0	118,560	80,300	136,880
LA	102.0	95.0	95.0	21,522	11,875	12,540
MD	78.0	65.0	110.0	35,880	27,300	44,000
MICH	97.0	70.0	113.0	192,060	112,000	222,610
MINN	127.0	74.0	125.0	609,600	347,800	700,000
MISS	80.0	60.0	70.0	12,000	9,000	9,800
MO	113.0	76.0	96.0	242,950	153,520	219,840
MONT	105.0	110.0	80.0	1,575	2,200	320
NEBR	131.0	124.0	120.0	812,200	818,400	852,000
N J	104.0	70.0	102.0	8,840	5,530	7,242
N MEX	155.0	155.0	155.0	7,595	8,525	9,765
N Y	109.0	85.0	93.0	65,400	45,900	53,010
N C	68.0	84.0	93.0	74,800	81,480	88,350
N DAK	93.0	58.0	75.0	46,500	22,040	34,875
OHIO	120.0	85.0	118.0	372,000	255,000	342,200
OKLA	107.0	95.0	118.0	7,062	6,840	9,204
OREG	165.0	158.0	160.0	3,960	3,002	3,520
PA	93.0	65.0	103.0	101,370	59,150	98,880
S C	78.0	58.0	91.0	29,250	19,430	30,940
S DAK	83.0	55.0	72.0	219,950	132,000	190,800
TENN	91.0	73.0	107.0	52,780	38,690	56,710
TEX	107.0	96.0	106.0	133,750	129,600	148,400
UTAH	140.0	124.0	132.0	2,800	2,728	2,640
VA	63.0	79.0	110.0	20,475	23,305	40,150
WASH	170.0	170.0	175.0	13,600	13,600	15,750
W VA	72.0	58.0	95.0	3,600	2,320	4,370
WIS	118.0	67.0	111.0	330,400	130,650	310,800
WYO	111.0	122.0	95.0	4,551	6,466	3,895
U S	119.8	84.6	116.2	7,131,300	4,928,681	7,527,152

CORN FOR SILAGE

STATE	AREA HARVESTED			YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
	1,000 ACRES			TONS			1,000	TONS	
ALA	22	20	25	10.0	8.0	10.0	220	160	250
ARIZ	8	6	7	23.0	27.0	27.0	184	162	189
ARK	4	4	3	10.0	8.0	12.0	40	32	36
CALIF	196	182	189	26.0	23.0	24.0	5,096	4,186	4,536
COLO	105	105	115	22.0	23.0	22.0	2,310	2,415	2,530
CONN	46	43	43	18.0	18.0	16.5	828	774	710
DEL	14	8	6	9.0	13.0	16.0	126	104	96
FLA	15	12	22	14.5	13.5	16.0	218	162	352
GA	40	50	40	10.5	8.5	14.5	420	425	580
IDAHO	48	58	78	22.0	23.0	23.5	1,056	1,334	1,833
ILL	140	260	140	15.5	7.5	14.0	2,170	1,950	1,960
IND	110	150	120	18.0	11.5	16.5	1,980	1,725	1,980
IOWA	220	550	340	16.0	9.0	13.5	3,520	4,950	4,590
KANS	100	95	105	15.0	14.0	14.0	1,500	1,330	1,470
KY	150	160	140	15.0	10.5	16.0	2,250	1,680	2,240
LA	12	12	14	13.0	14.0	16.0	156	168	224
MAINE	31	26	27	16.0	17.0	15.0	496	442	405
MD	95	95	75	12.0	10.0	16.0	1,140	950	1,200
MASS	32	31	30	18.5	19.5	18.5	592	605	555
MICH	300	450	300	13.0	7.5	13.0	3,900	3,375	3,900
MINN	530	850	520	13.5	6.2	10.5	7,155	5,270	5,460
MISS	50	35	25	13.0	10.0	12.0	650	350	300
MO	80	150	90	14.0	8.0	12.5	1,120	1,200	1,125
MONT	64	67	75	18.0	19.0	18.0	1,152	1,273	1,350
NEBR	225	245	325	17.0	14.0	13.0	3,825	3,430	4,225
N H	19	17	17	19.0	19.0	19.5	361	323	332
N J	19	14	22	15.0	10.0	14.0	285	140	308
N MEX	16	17	20	20.0	20.0	20.0	320	340	400
N Y	530	525	550	15.0	13.0	13.0	7,950	6,825	7,150
N C	105	105	95	11.0	10.0	15.0	1,155	1,050	1,425
N DAK	230	300	340	7.5	3.0	3.7	1,725	900	1,258
OHIO	160	250	240	16.0	10.5	14.0	2,560	2,625	3,360
OKLA	23	13	14	16.0	14.0	12.0	368	182	168
OREG	30	29	27	24.0	22.0	24.0	720	638	648
PA	450	550	400	14.5	10.0	15.0	6,525	5,500	6,000
R I	3	2	2	16.0	19.0	19.0	48	38	38
S C	32	31	25	12.0	8.5	13.5	384	264	338
S DAK	370	670	690	7.3	3.8	5.0	2,701	2,546	3,450
TENN	140	125	110	13.0	10.0	15.0	1,820	1,250	1,650
TEX	40	70	50	19.0	13.0	18.5	760	910	925
UTAH	47	47	44	21.0	20.0	19.0	987	940	836
VT	77	78	77	16.0	16.0	17.5	1,232	1,248	1,348
VA	225	230	140	9.5	12.0	16.0	2,138	2,760	2,240
WASH	40	40	40	25.0	25.0	25.0	1,000	1,000	1,000
W VA	36	37	38	11.5	8.5	15.5	414	315	589
WIS	730	1,450	764	14.0	6.9	13.0	10,220	10,005	9,932
WYO	35	30	47	19.0	18.0	16.0	665	540	752
U S	5,994	8,294	6,606	14.4	9.5	13.1	86,442	78,791	86,243

SORGHUM: ACREAGE

STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
ALA	50	40	45	30	25	30
ARIZ	14	5	6	11	4	3
ARK	420	360	370	405	310	340
CALIF	25	20	13	20	15	9
COLO	400	270	400	210	180	325
GA	110	85	90	60	40	50
ILL	150	90	150	140	80	140
KANS	4,100	3,600	4,100	3,750	3,300	3,750
KY	22	15	13	18	10	9
LA	190	105	110	172	90	95
MISS	160	165	100	145	155	85
MO	720	500	600	690	470	570
NEBR	1,450	1,600	1,850	1,300	1,360	1,650
N MEX	165	160	280	140	145	250
N C	60	85	90	35	55	60
OKLA	450	410	400	410	360	360
S C	40	28	30	15	8	10
S DAK	360	460	460	270	250	290
TENN	70	45	35	60	35	27
TEX	2,800	2,300	3,500	2,650	2,150	3,100
U S	11,756	10,343	12,642	10,531	9,042	11,153

SORGHUM FOR GRAIN: YIELD AND PRODUCTION

STATE	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	BUSHEL			1,000 BUSHEL		
ALA	48.0	41.0	50.0	1,440	1,025	1,500
ARIZ	90.0	100.0	80.0	990	400	240
ARK	68.0	68.0	62.0	27,540	21,080	21,080
CALIF	90.0	80.0	90.0	1,800	1,200	810
COLO	43.0	46.0	35.0	9,030	8,280	11,375
GA	40.0	35.0	40.0	2,400	1,400	2,000
ILL	86.0	75.0	83.0	12,040	6,000	11,620
KANS	73.0	62.0	53.0	273,750	204,600	198,750
KY	70.0	55.0	80.0	1,260	550	720
LA	67.0	65.0	65.0	11,524	5,850	6,175
MISS	65.0	56.0	53.0	9,425	8,680	4,505
MO	85.0	81.0	79.0	58,650	38,070	45,030
NEBR	82.0	76.0	62.0	106,600	103,360	102,300
N MEX	57.0	60.0	50.0	7,980	8,700	12,500
N C	43.0	42.0	54.0	1,505	2,310	3,240
OKLA	46.0	45.0	49.0	18,860	16,200	17,640
S C	37.0	32.0	45.0	555	256	450
S DAK	53.0	44.0	40.0	14,310	11,000	11,600
TENN	70.0	65.0	75.0	4,200	2,275	2,025
TEX	63.0	63.0	53.0	166,950	135,450	164,300
U S	69.4	63.8	55.4	730,809	576,686	617,860

SORGHUM FOR SILAGE

STATE	AREA HARVESTED			YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
	1,000 ACRES			TONS			1,000 TONS		
ALA	10	6	10	9.5	9.0	10.0	95	54	100
ARIZ	3	1	3	18.0	17.0	20.0	54	17	60
ARK	5	4	7	10.0	8.0	11.0	50	32	77
CALIF	4	4	3	21.0	19.5	19.0	84	78	57
COLO	18	22	25	15.0	13.0	14.0	270	286	350
GA	40	36	35	11.0	9.0	12.0	440	324	420
ILL	6	3	6	12.0	8.0	12.0	72	24	72
KANS	123	140	130	14.5	10.0	11.0	1,784	1,400	1,430
KY	3	4	3	12.0	10.0	14.0	36	40	42
LA	6	4	4	10.0	11.0	11.0	60	44	44
MISS	12	5	5	15.0	9.0	9.0	180	45	45
MO	20	10	15	12.0	8.5	10.0	240	85	150
NEBR	60	100	80	12.5	13.5	11.0	750	1,350	880
N MEX	3	2	3	13.0	14.0	12.0	39	28	36
N C	20	30	23	12.0	7.0	11.0	240	210	253
OKLA	15	14	12	13.0	12.0	13.0	195	168	156
S C	15	18	18	8.5	9.0	10.0	128	162	180
S DAK	40	90	100	7.6	6.8	6.0	304	612	600
TENN	6	8	6	11.0	9.0	11.0	66	72	66
TEX	20	17	22	11.0	13.0	13.0	220	221	286
U S	429	518	510	12.4	10.1	10.4	5,307	5,252	5,304

OATS: ACREAGE

STATE	AREA PLANTED 1/			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
ALA	45	35	45	25	20	25
ARK	22	40	60	18	35	52
CALIF	380	365	400	40	35	45
COLO	100	110	95	50	60	55
GA	55	80	90	30	45	70
IDAHO	65	70	90	36	45	60
ILL	2,100	1,400	700	190	180	200
IND	600	350	200	95	75	95
IOWA	4,200	2,100	1,550	650	500	750
KANS	240	225	280	155	150	200
KY	27	30	24	7	8	8
MAINE	42	42	40	38	39	37
MD	19	20	28	16	17	24
MICH	350	300	330	300	200	300
MINN	2,100	1,700	1,250	800	750	850
MO	150	110	110	77	40	60
MONT	235	210	250	110	90	145
NEBR	810	650	500	360	320	240
N J	6	6	8	5	4	6
N Y	230	180	180	180	145	155
N C	105	100	100	60	55	55
N DAK	1,050	1,100	1,150	700	400	650
OHIO	350	300	300	250	200	250
OKLA	160	140	130	60	65	60
OREG	90	95	105	65	65	70
PA	290	290	280	260	260	255
S C	60	85	70	33	48	40
S DAK	1,400	1,400	1,450	1,150	800	1,100
TEX	1,100	1,100	1,100	220	200	200
UTAH	28	32	36	14	14	17
VA	35	35	27	11	12	9
WASH	75	80	85	30	35	45
W VA	13	10	10	8	6	6
WIS	1,300	1,050	940	800	580	710
WYO	75	70	67	45	35	30
U S	17,907	13,910	12,080	6,888	5,533	6,874

1/ INCLUDES AREA PLANTED IN PRECEDING FALL.

OATS: YIELD AND PRODUCTION

STATE	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	BUSHEL			1,000 BUSHEL		
ALA	50.0	55.0	55.0	1,250	1,100	1,375
ARK	70.0	90.0	73.0	1,260	3,150	3,796
CALIF	70.0	78.0	70.0	2,800	2,730	3,150
COLO	54.0	50.0	55.0	2,700	3,000	3,025
GA	55.0	63.0	59.0	1,650	2,835	4,130
IDAHO	75.0	68.0	68.0	2,700	3,060	4,080
ILL	69.0	51.0	85.0	13,110	9,180	17,000
IND	67.0	40.0	72.0	6,365	3,000	6,840
IOWA	57.0	50.0	72.0	37,050	25,000	54,000
KANS	42.0	39.0	45.0	6,510	5,850	9,000
KY	52.0	50.0	60.0	364	400	480
MAINE	75.0	75.0	70.0	2,850	2,925	2,590
MD	56.0	52.0	55.0	896	884	1,320
MICH	57.0	30.0	67.0	17,100	6,000	20,100
MINN	57.0	33.0	55.0	45,600	24,750	46,750
MO	41.0	38.0	60.0	3,157	1,520	3,600
MONT	55.0	31.0	46.0	6,050	2,790	6,670
NEBR	49.0	38.0	36.0	17,640	12,160	8,640
N J	52.0	50.0	44.0	260	200	264
N Y	60.0	52.0	59.0	10,800	7,540	9,145
N C	59.0	70.0	57.0	3,540	3,850	3,135
N DAK	52.0	18.0	31.0	36,400	7,200	20,150
OHIO	70.0	45.0	63.0	17,500	9,000	15,750
OKLA	38.0	42.0	34.0	2,280	2,730	2,040
OREG	80.0	100.0	98.0	5,200	6,500	6,860
PA	57.0	50.0	54.0	14,820	13,000	13,770
S C	54.0	63.0	59.0	1,782	3,024	2,360
S DAK	46.0	25.0	40.0	52,900	20,000	44,000
TEX	45.0	45.0	33.0	9,900	9,000	6,600
UTAH	69.0	72.0	74.0	966	1,008	1,258
VA	48.0	53.0	55.0	528	636	495
WASH	66.0	67.0	63.0	1,980	2,345	2,835
W VA	50.0	48.0	50.0	400	288	300
WIS	54.0	34.0	66.0	43,200	19,720	46,860
WYO	49.0	35.0	47.0	2,205	1,225	1,410
U S	54.3	39.3	54.4	373,713	217,600	373,778

BARLEY: ACREAGE

STATE	AREA PLANTED 1/			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
ARIZ	25	15	15	22	13	12
CALIF	400	360	320	330	280	240
COLO	230	185	190	220	175	160
DEL	40	35	50	37	30	40
IDAHO	840	880	870	820	850	850
KANS	140	100	60	120	85	18
KY	15	16	20	12	14	17
MD	90	80	90	79	69	80
MICH	55	50	45	50	38	40
MINN	1,200	1,250	925	870	850	800
MONT	2,300	1,800	1,700	2,100	1,250	1,600
NEBR	85	70	35	70	60	25
NEV	16	14	12	14	12	11
N J	17	16	12	12	9	8
N MEX	13	11	10	8	6	5
N C	46	48	50	40	42	43
N DAK	3,000	2,800	2,800	2,900	2,150	2,650
OKLA	30	20	25	25	16	20
OREG	220	225	200	200	200	180
PA	65	60	90	60	55	85
S C	15	17	12	13	14	10
S DAK	870	700	700	850	450	550
TEX	65	35	25	30	18	15
UTAH	152	139	134	142	125	114
VA	90	95	95	70	75	75
WASH	660	580	500	645	560	490
WIS	110	100	80	88	75	65
WYO	140	130	110	130	115	100
U S	10,929	9,831	9,175	9,957	7,636	8,303

1/ INCLUDES AREA PLANTED IN PRECEDING FALL.

BARLEY: YIELD AND PRODUCTION

STATE	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	BUSHEL			1,000 BUSHEL		
ARIZ	99.0	104.0	103.0	2,178	1,352	1,236
CALIF	54.0	61.0	56.0	17,820	17,080	13,440
COLO	64.0	67.0	76.0	14,080	11,725	12,160
DEL	60.0	72.0	55.0	2,220	2,160	2,200
IDAHO	75.0	60.0	70.0	61,500	51,000	59,500
KANS	40.0	35.0	32.0	4,800	2,975	576
KY	67.0	77.0	67.0	804	1,078	1,139
MD	63.0	69.0	50.0	4,977	4,761	4,000
MICH	55.0	32.0	58.0	2,750	1,216	2,320
MINN	57.0	32.0	55.0	49,590	27,200	44,000
MONT	45.0	24.0	43.0	94,500	30,000	68,800
NEBR	36.0	32.0	26.0	2,520	1,920	650
NEV	90.0	80.0	90.0	1,260	960	990
N J	60.0	67.0	59.0	720	603	472
N MEX	70.0	65.0	75.0	560	390	375
N C	57.0	68.0	48.0	2,280	2,856	2,064
N DAK	48.0	21.0	37.0	139,200	45,150	98,050
OKLA	30.0	48.0	45.0	750	768	900
OREG	70.0	74.0	67.0	14,000	14,800	12,060
PA	57.0	66.0	59.0	3,420	3,630	5,015
S C	49.0	60.0	56.0	637	840	560
S DAK	40.0	18.0	35.0	34,000	8,100	19,250
TEX	40.0	30.0	32.0	1,200	540	480
UTAH	83.0	77.0	79.0	11,786	9,625	9,006
VA	66.0	71.0	65.0	4,620	5,325	4,875
WASH	55.0	62.0	58.0	35,475	34,720	28,420
WIS	54.0	34.0	57.0	4,752	2,550	3,705
WYO	70.0	58.0	72.0	9,100	6,670	7,200
U S	52.4	38.0	48.6	521,499	289,994	403,443

ALL WHEAT: ACREAGE

STATE	AREA PLANTED 1/			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
ALA	250	270	300	170	200	220
ARIZ	91	87	120	89	85	118
ARK	930	1,120	1,300	840	1,070	1,200
CALIF	620	590	731	567	549	675
COLO	3,160	2,554	2,775	2,555	2,352	2,270
DEL	50	65	80	48	63	74
FLA	60	75	80	50	70	65
GA	550	575	800	460	500	700
IDAHO	1,210	1,220	1,460	1,140	1,150	1,370
ILL	1,100	1,300	1,850	950	1,250	1,780
IND	750	840	940	600	700	880
IOWA	90	60	80	30	35	70
KANS	10,700	10,200	12,400	9,900	9,500	8,900
KY	500	550	630	330	380	450
LA	240	300	390	170	270	350
MD	165	180	230	155	170	215
MICH	450	650	660	400	620	640
MINN	2,580	2,520	2,765	2,519	2,250	2,699
MISS	400	500	525	350	450	450
MO	900	1,650	1,970	770	1,550	1,850
MONT	4,895	4,730	6,340	4,690	3,830	5,235
NEBR	2,200	2,300	2,550	1,950	2,000	2,050
NEV	24	22	18	21	19	15
N J	30	35	43	27	31	35
N MEX	660	520	550	320	290	160
N Y	95	95	135	85	90	130
N C	490	510	680	440	480	630
N DAK	9,300	9,250	10,800	9,135	7,230	10,330
OHIO	900	1,000	1,260	850	920	1,230
OKLA	7,200	7,000	7,300	4,800	4,800	5,700
OREG	845	800	950	810	755	920
PA	190	175	220	185	170	215
S C	290	320	460	275	305	435
S DAK	3,660	3,650	3,930	3,528	2,638	3,520
TENN	440	530	540	350	430	450
TEX	6,800	6,300	6,700	3,600	3,200	3,000
UTAH	212	184	190	199	177	177
VA	275	230	300	215	200	275
WASH	2,100	2,170	3,100	2,015	2,060	2,270
W VA	13	11	16	11	9	12
WIS	115	150	212	88	133	180
WYO	299	241	235	258	208	204
U S	65,829	65,529	76,615	55,945	53,189	62,149

1/ INCLUDES AREA PLANTED IN PRECEDING FALL.

ALL WHEAT: YIELD AND PRODUCTION

STATE	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	BUSHEL			1,000 BUSHEL		
ALA	31.0	43.0	30.0	5,270	8,600	6,600
ARIZ	89.9	90.9	90.9	8,005	7,730	10,722
ARK	41.0	53.0	44.0	34,440	56,710	52,800
CALIF	77.4	84.3	77.9	43,890	46,275	52,605
COLO	38.1	33.8	27.4	97,380	79,540	62,100
DEL	42.0	52.0	42.0	2,016	3,276	3,108
FLA	29.0	36.0	29.0	1,450	2,520	1,885
GA	31.0	43.0	32.0	14,260	21,500	22,400
IDAHO	75.0	65.7	66.7	85,500	75,520	91,420
ILL	59.0	54.0	59.0	56,050	67,500	105,020
IND	58.0	50.0	59.0	34,800	35,000	51,920
IOWA	38.0	35.0	47.0	1,140	1,225	3,290
KANS	37.0	34.0	24.0	366,300	323,000	213,600
KY	49.0	54.0	50.0	16,170	20,520	22,500
LA	31.0	41.0	31.0	5,270	11,070	10,850
MD	49.0	53.0	40.0	7,595	9,010	8,600
MICH	48.0	42.0	53.0	19,200	26,040	33,920
MINN	40.7	23.0	38.0	102,588	51,730	102,504
MISS	36.0	46.0	34.0	12,600	20,700	15,300
MO	46.0	49.0	47.0	35,420	75,950	86,950
MONT	32.2	15.7	27.7	151,220	59,970	145,030
NEBR	44.0	36.0	27.0	85,800	72,000	55,350
NEV	80.0	70.5	80.0	1,680	1,340	1,200
N J	45.0	45.0	39.0	1,215	1,395	1,365
N MEX	32.0	24.0	20.0	10,240	6,960	3,200
N Y	45.0	55.0	45.0	3,825	4,950	5,850
N C	41.0	50.0	34.0	18,040	24,000	21,420
N DAK	29.5	14.3	23.5	269,120	103,390	242,320
OHIO	58.0	50.0	51.0	49,300	46,000	62,730
OKLA	27.0	36.0	27.0	129,600	172,800	153,900
OREG	65.3	68.6	58.5	52,920	51,800	53,835
PA	43.0	53.0	37.0	7,955	9,010	7,955
S C	38.0	46.0	41.0	10,450	14,030	17,835
S DAK	30.2	14.4	23.6	106,704	38,006	83,080
TENN	40.0	50.0	42.0	14,000	21,500	18,900
TEX	28.0	28.0	20.0	100,800	89,600	60,000
UTAH	45.0	38.2	33.6	8,963	6,768	5,950
VA	45.0	52.0	46.0	9,675	10,400	12,650
WASH	56.7	60.5	48.7	114,285	124,620	110,610
W VA	45.0	46.0	43.0	495	414	516
WIS	47.3	38.7	51.8	4,164	5,152	9,320
WYO	30.6	22.5	23.1	7,890	4,680	4,708
U S	37.7	34.1	32.8	2,107,685	1,812,201	2,035,818

WINTER WHEAT

STATE	AREA PLANTED 1/			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
ALA	250	270	300	170	200	220
ARIZ	45	36	35	44	35	34
ARK	930	1,120	1,300	840	1,070	1,200
CALIF	560	530	625	510	490	570
COLO	3,100	2,500	2,700	2,500	2,300	2,200
DEL	50	65	80	48	63	74
FLA	60	75	80	50	70	65
GA	550	575	800	460	500	700
IDAHO	860	820	880	800	770	810
ILL	1,100	1,300	1,850	950	1,250	1,780
IND	750	840	940	600	700	880
IOWA	90	60	80	30	35	70
KANS	10,700	10,200	12,400	9,900	9,500	8,900
KY	500	550	630	330	380	450
LA	240	300	390	170	270	350
MD	165	180	230	155	170	215
MICH	450	650	660	400	620	640
MINN	100	75	135	90	60	120
MISS	400	500	525	350	450	450
MO	900	1,650	1,970	770	1,550	1,850
MONT	2,300	2,450	2,500	2,200	2,100	1,500
NEBR	2,200	2,300	2,550	1,950	2,000	2,050
NEV	8	8	7	7	7	6
N J	30	35	43	27	31	35
N MEX	660	520	550	320	290	160
N Y	95	95	135	85	90	130
N C	490	510	680	440	480	630
N DAK	200	250	100	185	130	80
OHIO	900	1,000	1,260	850	920	1,230
OKLA	7,200	7,000	7,300	4,800	4,800	5,700
OREG	780	700	840	750	660	815
PA	190	175	220	185	170	215
S C	290	320	460	275	305	435
S DAK	1,700	1,700	1,600	1,620	1,270	1,350
TENN	440	530	540	350	430	450
TEX	6,800	6,300	6,700	3,600	3,200	3,000
UTAH	180	160	165	170	155	155
VA	275	230	300	215	200	275
WASH	1,900	1,850	2,100	1,825	1,750	1,300
W VA	13	11	16	11	9	12
WIS	85	140	200	60	125	170
WYO	270	220	215	240	195	193
U S	48,806	48,800	55,091	39,332	39,800	41,469

1/ INCLUDES AREA PLANTED IN PRECEDING FALL.

WINTER WHEAT: YIELD AND PRODUCTION

STATE	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	BUSHEL			1,000 BUSHEL		
ALA	31.0	43.0	30.0	5,270	8,600	6,600
ARIZ	95.0	98.0	93.0	4,180	3,430	3,162
ARK	41.0	53.0	44.0	34,440	56,710	52,800
CALIF	76.0	83.0	77.0	38,760	40,670	43,890
COLO	37.5	33.0	26.0	93,750	75,900	57,200
DEL	42.0	52.0	42.0	2,016	3,276	3,108
FLA	29.0	36.0	29.0	1,450	2,520	1,885
GA	31.0	43.0	32.0	14,260	21,500	22,400
IDAHO	75.0	66.0	70.0	60,000	50,820	56,700
ILL	59.0	54.0	59.0	56,050	67,500	105,020
IND	58.0	50.0	59.0	34,800	35,000	51,920
IOWA	38.0	35.0	47.0	1,140	1,225	3,290
KANS	37.0	34.0	24.0	366,300	323,000	213,600
KY	49.0	54.0	50.0	16,170	20,520	22,500
LA	31.0	41.0	31.0	5,270	11,070	10,850
MD	49.0	53.0	40.0	7,595	9,010	8,600
MICH	48.0	42.0	53.0	19,200	26,040	33,920
MINN	33.0	24.0	38.0	2,970	1,440	4,560
MISS	36.0	46.0	34.0	12,600	20,700	15,300
MO	46.0	49.0	47.0	35,420	75,950	86,950
MONT	36.0	19.0	36.0	79,200	39,900	54,000
NEBR	44.0	36.0	27.0	85,800	72,000	55,350
NEV	90.0	80.0	80.0	630	560	480
N J	45.0	45.0	39.0	1,215	1,395	1,365
N MEX	32.0	24.0	20.0	10,240	6,960	3,200
N Y	45.0	55.0	45.0	3,825	4,950	5,850
N C	41.0	50.0	34.0	18,040	24,000	21,420
N DAK	32.0	13.0	29.0	5,920	1,690	2,320
OHIO	58.0	50.0	51.0	49,300	46,000	62,730
OKLA	27.0	36.0	27.0	129,600	172,800	153,900
OREG	66.0	71.0	60.0	49,500	46,860	48,900
PA	43.0	53.0	37.0	7,955	9,010	7,955
S C	38.0	46.0	41.0	10,450	14,030	17,835
S DAK	34.0	17.0	26.0	55,080	21,590	35,100
TENN	40.0	50.0	42.0	14,000	21,500	18,900
TEX	28.0	28.0	20.0	100,800	89,600	60,000
UTAH	43.0	36.0	32.0	7,310	5,580	4,960
VA	45.0	52.0	46.0	9,675	10,400	12,650
WASH	57.0	62.0	53.0	104,025	108,500	68,900
W VA	45.0	46.0	43.0	495	414	516
WIS	54.0	40.0	53.0	3,240	5,000	9,010
WYO	31.0	22.0	22.0	7,440	4,290	4,246
U S	39.8	39.2	35.1	1,565,381	1,561,910	1,453,842

DURUM WHEAT

STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
1,000 ACRES						
ARIZ	46	51	85	45	50	84
CALIF	60	60	106	57	59	105
MINN	30	45	30	29	40	29
MONT	195	280	340	190	230	335
N DAK	2,900	2,800	3,100	2,850	2,400	3,000
S DAK	110	100	130	108	68	120
U S	3,341	3,336	3,791	3,279	2,847	3,673
	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
BUSHEL			1,000 BUSHEL			
ARIZ	85.0	86.0	90.0	3,825	4,300	7,560
CALIF	90.0	95.0	83.0	5,130	5,605	8,715
MINN	42.0	21.0	36.0	1,218	840	1,044
MONT	28.0	9.0	18.0	5,320	2,070	6,030
N DAK	26.0	13.0	22.0	74,100	31,200	66,000
S DAK	28.0	12.0	24.0	3,024	816	2,880
U S	28.2	15.7	25.1	92,617	44,831	92,229

WHEAT PRODUCTION BY CLASSES, UNITED STATES 1/

YEAR	WINTER			SPRING			TOTAL
	HARD RED	SOFT RED	WHITE	HARD RED	DURUM	WHITE	
1,000 BUSHEL							
1987	1,019,204	349,453	196,724	430,578	92,617	19,109	2,107,685
1988	881,883	472,662	207,365	181,202	44,831	24,258	1,812,201
1989	711,110	548,049	194,683	433,455	92,229	56,292	2,035,818

1/ WHEAT CLASS ESTIMATES ARE BASED ON VARIETY ACREAGE SURVEY DATA COLLECTED AT 5-YEAR INTERVALS FOR ALL WHEAT PRODUCING STATES. THE 5-YEAR VARIETAL SURVEY DATA ARE ADJUSTED AS OTHER VARIETY SURVEY INFORMATION BECOMES AVAILABLE.

OTHER SPRING WHEAT

STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
COLO	60	54	75	55	52	70
IDAHO	350	400	580	340	380	560
MINN	2,450	2,400	2,600	2,400	2,150	2,550
MONT	2,400	2,000	3,500	2,300	1,500	3,400
NEV	16	14	11	14	12	9
N DAK	6,200	6,200	7,600	6,100	4,700	7,250
OREG	65	100	110	60	95	105
S DAK	1,850	1,850	2,200	1,800	1,300	2,050
UTAH	32	24	25	29	22	22
WASH	200	320	1,000	190	310	970
WIS	30	10	12	28	8	10
WYO	29	21	20	18	13	11
U S	13,682	13,393	17,733	13,334	10,542	17,007
	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	BUSHEL			1,000 BUSHEL		
COLO	66.0	70.0	70.0	3,630	3,640	4,900
IDAHO	75.0	65.0	62.0	25,500	24,700	34,720
MINN	41.0	23.0	38.0	98,400	49,450	96,900
MONT	29.0	12.0	25.0	66,700	18,000	85,000
NEV	75.0	65.0	80.0	1,050	780	720
N DAK	31.0	15.0	24.0	189,100	70,500	174,000
OREG	57.0	52.0	47.0	3,420	4,940	4,935
S DAK	27.0	12.0	22.0	48,600	15,600	45,100
UTAH	57.0	54.0	45.0	1,653	1,188	990
WASH	54.0	52.0	43.0	10,260	16,120	41,710
WIS	33.0	19.0	31.0	924	152	310
WYO	25.0	30.0	42.0	450	390	462
U S	33.7	19.5	28.8	449,687	205,460	489,747

WHEAT CLASS PERCENTAGE BREAKDOWN

THE FOLLOWING PERCENTAGES ARE THE BASIS FOR THE U.S. WHEAT PRODUCTION BY CLASS ESTIMATES EACH YEAR. THESE ESTIMATES ARE BASED ON THE LATEST VARIETAL ACREAGE SURVEY DATA AVAILABLE. THE PERCENTAGES USED FOR THIS END-OF-SEASON PRODUCTION BY CLASS BREAKDOWN WILL ALSO BE USED DURING THE COMING FORECAST SEASON. AN EXCEPTION TO THE LATTER IS, IF AN UNUSUAL SITUATION SIGNIFICANTLY DISTORTS A STATE'S TYPICAL BREAKDOWN, THEN UPDATED PERCENTAGES ARE USED DURING THE FORECASTS.

WHEAT--PERCENTAGE BREAKDOWN, BY CLASSES, BY STATES

STATE	WINTER					OTHER SPRING (EXCLUDING DURUM)				
	HARD RED		SOFT RED		WHITE	HARD RED		WHITE		
	1988	1989	1988	1989	1988	1989	1988	1989	1988	1989
	PERCENT									
ALA			100	100						
ARIZ	100	100								
ARK			100	100						
CALIF	93	91			7	9				
COLO	100	100					84	84	16	16
DEL			100	100						
FLA			100	100						
GA			100	100						
IDAHO	30	17			70	83	58	45	42	55
ILL	2	2	98	98						
IND			100	100						
IOWA	70	70	30	30						
KANS	100	99		1						
KY	3	6	97	94						
LA	2	2	98	98						
MD			100	100						
MICH			26	23	74	77				
MINN	100	100					100	100		
MISS			100	100						
MO	2	3	98	97						
MONT	100	100					100	100		
NEBR	100	100								
NEV					100	100	12	12	88	88
N J			100	100						
N MEX	100	100								
N Y	1	1	2	2	97	97				
N C			100	100						
N DAK	100	100					100	100		
OHIO			100	100						
OKLA	100	100								
OREG	2	1			98	99	15	15	85	85
PA			100	100						
S C			100	100						
S DAK	100	100					100	100		
TENN			100	100						
TEX	94	94	6	6						
UTAH	93	93			7	7	71	71	29	29
VA			100	100						
WASH	10	10			90	90	50	25	50	75
W VA			100	100						
WIS			93	93	7	7	100	100		
WYO	100	100					97	97	3	3

RICE: ACREAGE

STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
1,000 ACRES						
LONG GRAIN RICE						
ARK	885.0	1,084.0	1,039.0	876.0	1,075.0	1,030.0
CALIF	36.0	60.0	35.0	36.0	60.0	35.0
LA	265.0	395.0	310.0	262.0	388.0	295.0
MISS	200.0	255.0	240.0	198.0	250.0	235.0
MO	64.0	81.0	80.0	63.0	80.0	78.0
TEX	264.0	382.0	332.0	263.0	380.0	330.0
U S	1,714.0	2,257.0	2,036.0	1,698.0	2,233.0	2,003.0
MEDIUM GRAIN RICE						
ARK	133.0	135.0	110.0	132.0	134.0	109.0
CALIF	299.0	320.0	330.0	295.0	315.0	325.0
LA	160.0	150.0	195.0	158.0	147.0	190.0
MISS	1/	10.0	1/	1/	10.0	1/
MO	3.0	2.0	1.0	3.0	2.0	1.0
TEX	6.0	8.0	8.0	6.0	8.0	8.0
U S	601.0	625.0	644.0	594.0	616.0	633.0
SHORT GRAIN RICE						
ARK	2.0	1.0	1.0	2.0	1.0	1.0
CALIF	39.0	50.0	50.0	39.0	50.0	50.0
U S	41.0	51.0	51.0	41.0	51.0	51.0
ALL RICE						
ARK	1,020.0	1,220.0	1,150.0	1,010.0	1,210.0	1,140.0
CALIF	374.0	430.0	415.0	370.0	425.0	410.0
LA	425.0	545.0	505.0	420.0	535.0	485.0
MISS	200.0	265.0	240.0	198.0	260.0	235.0
MO	67.0	83.0	81.0	66.0	82.0	79.0
TEX	270.0	390.0	340.0	269.0	388.0	338.0
U S	2,356.0	2,933.0	2,731.0	2,333.0	2,900.0	2,687.0

1/ NO MEDIUM GRAIN ESTIMATED.

RICE: YIELD AND PRODUCTION

STATE	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	POUNDS			1,000 CWT		
LONG GRAIN RICE						
ARK	5,170	5,340	5,580	45,259	57,447	57,458
CALIF	7,200	7,000	7,510	2,592	4,200	2,630
LA	4,610	4,520	4,450	12,079	17,538	13,128
MISS	5,100	5,310	5,700	10,098	13,275	13,395
MO	5,430	5,100	5,200	3,420	4,080	4,056
TEX	5,910	6,010	5,720	15,547	22,824	18,874
U S	5,241	5,345	5,469	88,995	119,364	109,541
MEDIUM GRAIN RICE						
ARK	5,800	5,400	5,800	7,656	7,236	6,322
CALIF	7,600	7,000	8,000	22,496	22,050	26,000
LA	4,450	4,450	4,400	7,031	6,542	8,360
MISS	1/	5,050	1/	1/	505	1/
MO	4,800	5,100	5,200	144	102	52
TEX	5,400	5,700	4,900	324	456	392
U S	6,339	5,989	6,497	37,651	36,891	41,126
SHORT GRAIN RICE						
ARK	5,500	5,200	6,000	110	52	60
CALIF	7,300	7,180	7,520	2,847	3,590	3,760
U S	7,212	7,141	7,490	2,957	3,642	3,820
ALL RICE						
ARK	5,250	5,350	5,600	53,025	64,735	63,840
CALIF	7,550	7,020	7,900	27,935	29,840	32,390
LA	4,550	4,500	4,430	19,110	24,080	21,488
MISS	5,100	5,300	5,700	10,098	13,780	13,395
MO	5,400	5,100	5,200	3,564	4,182	4,108
TEX	5,900	6,000	5,700	15,871	23,280	19,266
U S	5,555	5,514	5,749	129,603	159,897	154,487

1/ NO MEDIUM GRAIN ESTIMATED.

RYE

STATE	AREA PLANTED 1/			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
COLO	18	18	25	3	6	4
DEL	20	18	17	3	4	2
GA	380	350	320	70	70	70
ILL	65	60	50	6	5	8
IND	40	50	45	6	7	6
IOWA	25	30	25	4	5	5
KANS	35	40	45	10	5	5
KY	50	45	50	2	4	2
MD	55	58	40	8	10	8
MICH	115	135	120	20	25	20
MINN	75	75	60	40	40	32
MO	15	25	25	2	8	3
NEBR	200	250	160	50	55	30
N J	55	60	47	8	10	7
N Y	90	100	80	10	12	15
N C	150	140	150	25	30	25
N DAK	175	130	45	165	90	38
OHIO	50	40	40	5	5	5
OKLA	130	130	100	20	30	28
OREG	20	15	20	4	3	3
PA	60	70	70	15	19	18
S C	90	75	80	24	30	28
S DAK	150	120	100	140	90	90
TEX	140	150	90	10	10	7
VA	200	150	140	15	16	8
WIS	25	40	70	6	6	12
U S	2,428	2,374	2,014	671	595	479
	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	BUSHEL			1,000 BUSHEL		
COLO	24.0	25.0	20.0	72	150	80
DEL	33.0	31.0	35.0	99	124	70
GA	22.0	27.0	23.0	1,540	1,890	1,610
ILL	27.0	28.0	39.0	162	140	312
IND	27.0	30.0	34.0	162	210	204
IOWA	35.0	30.0	37.0	140	150	185
KANS	27.0	26.0	16.0	270	130	80
KY	36.0	26.0	32.0	72	104	64
MD	31.0	29.0	27.0	248	290	216
MICH	32.0	26.0	33.0	640	650	660
MINN	30.0	23.0	34.0	1,200	920	1,088
MO	18.0	32.0	30.0	36	256	90
NEBR	23.0	25.0	20.0	1,150	1,375	600
N J	29.0	31.0	26.0	232	310	182
N Y	30.0	33.0	32.0	300	396	480
N C	24.0	26.0	21.0	600	780	525
N DAK	31.0	15.0	28.0	5,115	1,350	1,064
OHIO	36.0	37.0	31.0	180	185	155
OKLA	18.0	24.0	19.0	360	720	532
OREG	30.0	25.0	25.0	120	75	75
PA	35.0	36.0	32.0	525	684	576
S C	22.0	24.0	23.0	528	720	644
S DAK	36.0	25.0	36.0	5,040	2,250	3,240
TEX	15.0	15.0	18.0	150	150	126
VA	29.0	35.0	33.0	435	560	264
WIS	25.0	20.0	30.0	150	120	360
U S	29.1	24.7	28.1	19,526	14,689	13,482

1/ AREA PLANTED IN PRECEDING FALL.

FLAXSEED

STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
1,000 ACRES						
MINN	15	15	10	14	11	9
N DAK	400	220	170	395	185	140
S DAK	55	40	30	54	30	28
U S	470	275	210	463	226	177
YIELD : PRODUCTION						
	1987	1988	1989	1987	1988	1989
BUSHELS : 1,000 BUSHELS						
MINN	16.0	10.0	10.5	224	110	95
N DAK	16.5	7.0	7.0	6,518	1,295	980
S DAK	13.0	7.0	10.0	702	210	280
U S	16.1	7.1	7.7	7,444	1,615	1,355

PEANUTS FOR NUTS

STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
1,000 ACRES						
ALA	221.0	237.0	240.0	220.0	236.0	239.0
FLA	91.0	98.0	96.0	83.0	90.0	88.0
GA	635.0	690.0	690.0	630.0	685.0	685.0
N MEX	12.4	13.4	18.7	12.4	13.4	18.5
N C	150.0	155.0	153.0	148.0	153.0	152.0
OKLA	100.0	99.0	98.0	99.0	97.0	93.0
S C	13.0	13.0	13.0	13.0	13.0	13.0
TEX	254.0	260.0	265.0	252.0	250.0	260.0
VA	91.0	92.0	92.0	90.0	91.0	90.0
U S	1,567.4	1,657.4	1,665.7	1,547.4	1,628.4	1,638.5
YIELD : PRODUCTION 1/						
	1987	1988	1989	1987	1988	1989
POUNDS : 1,000 POUNDS						
ALA	2,115	2,380	2,300	465,300	561,680	549,700
FLA	2,600	2,540	2,600	215,800	228,600	228,800
GA	2,500	2,630	2,700	1,575,000	1,801,550	1,849,500
N MEX	2,400	2,280	2,400	29,760	30,552	44,400
N C	2,650	2,745	2,500	392,200	419,985	380,000
OKLA	2,250	2,320	2,350	222,750	225,040	218,550
S C	2,400	2,470	2,700	31,200	32,110	35,100
TEX	1,750	1,670	1,850	441,000	417,500	481,000
VA	2,700	2,900	2,700	243,000	263,900	243,000
U S	2,337	2,445	2,460	3,616,010	3,980,917	4,030,050

1/ ESTIMATES INCLUDE QUOTA AND NON-QUOTA PEANUTS.

SOYBEANS FOR BEANS

STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
ALA	600	590	600	580	570	570
ARK	3,300	3,250	3,300	3,250	3,200	3,200
DEL	240	230	255	235	225	250
FLA	95	120	130	93	115	120
GA	830	930	1,150	780	900	1,100
ILL	8,800	8,800	8,900	8,700	8,700	8,850
IND	4,400	4,300	4,600	4,350	4,200	4,550
IOWA	7,950	8,150	8,300	7,900	8,100	8,280
KANS	2,150	2,050	1,900	2,110	2,000	1,850
KY	1,060	980	1,200	1,030	910	1,170
LA	1,700	2,000	1,800	1,650	1,950	1,600
MD	420	465	570	410	455	550
MICH	1,100	1,250	1,100	1,090	1,210	1,080
MINN	4,700	4,900	5,050	4,650	4,800	5,000
MISS	2,550	2,400	2,200	2,450	2,250	2,000
MO	5,000	4,300	4,400	4,930	4,230	4,350
NEBR	2,400	2,400	2,600	2,350	2,360	2,560
N J	105	105	115	104	103	113
N C	1,400	1,370	1,600	1,340	1,310	1,550
N DAK	520	750	640	515	690	630
OHIO	3,950	3,900	4,000	3,900	3,700	3,980
OKLA	250	290	300	240	270	285
PA	190	250	310	185	245	305
S C	750	800	980	730	790	960
S DAK	1,400	1,760	1,900	1,390	1,730	1,880
TENN	1,300	1,300	1,300	1,250	1,230	1,240
TEX	170	240	500	150	225	415
VA	520	530	550	490	515	540
WIS	330	430	420	320	390	410
U S	58,180	58,840	60,670	57,172	57,373	59,388
	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	BUSHEL			1,000 BUSHEL		
ALA	18.0	25.0	21.0	10,440	14,250	11,970
ARK	23.0	26.0	24.0	74,750	83,200	76,800
DEL	18.0	27.0	29.0	4,230	6,075	7,250
FLA	25.0	29.0	22.0	2,325	3,335	2,640
GA	21.0	25.0	26.0	16,380	22,500	28,600
ILL	38.0	27.0	40.0	330,600	234,900	354,000
IND	40.0	27.5	37.0	174,000	115,500	168,350
IOWA	43.5	31.0	39.0	343,650	251,100	322,920
KANS	32.0	23.0	27.0	67,520	46,000	49,950
KY	26.5	26.5	31.5	27,295	24,115	36,855
LA	25.0	29.0	21.0	41,250	56,550	33,600
MD	22.5	31.0	30.0	9,225	14,105	16,500
MICH	36.0	29.0	36.0	39,240	35,090	38,880
MINN	39.0	26.0	37.0	181,350	124,800	185,000
MISS	19.5	22.0	20.0	47,775	49,500	40,000
MO	32.0	26.5	28.5	157,760	112,095	123,975
NEBR	35.5	30.0	32.0	83,425	70,800	81,920
N J	31.0	27.0	32.0	3,224	2,781	3,616
N C	24.5	27.0	27.0	32,830	35,370	41,850
N DAK	32.5	18.0	22.0	16,738	12,420	13,860
OHIO	37.0	27.0	32.0	144,300	99,900	127,360
OKLA	25.0	18.0	24.0	6,000	4,860	6,840
PA	34.0	32.0	34.0	6,290	7,840	10,370
S C	22.0	23.5	21.0	16,060	18,565	20,160
S DAK	32.5	24.0	26.0	45,175	41,520	48,880
TENN	23.0	26.0	24.0	28,750	31,980	29,760
TEX	28.0	28.0	30.0	4,200	6,300	12,450
VA	22.0	28.0	32.0	10,780	14,420	17,280
WIS	38.0	23.0	37.0	12,160	8,970	15,170
U S	33.9	27.0	32.4	1,937,722	1,548,841	1,926,806

COTTON

STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
1,000 ACRES						
UPLAND						
ALA	335.0	390.0	350.0	333.0	375.0	340.0
ARIZ	290.0	350.0	240.0	289.0	349.0	239.0
ARK	555.0	695.0	610.0	550.0	675.0	595.0
CALIF	1,150.0	1,350.0	1,050.0	1,140.0	1,335.0	1,040.0
FLA	29.5	33.0	25.5	29.0	29.0	25.0
GA	250.0	350.0	270.0	245.0	315.0	265.0
KANS	1.0	1.0	1.5	.9	.9	1.2
LA	605.0	735.0	645.0	600.0	645.0	620.0
MISS	1,020.0	1,230.0	1,050.0	1,010.0	1,190.0	1,020.0
MO	200.0	245.0	214.0	199.0	242.0	209.0
N MEX	66.0	77.0	61.0	62.0	69.0	55.0
N C	96.0	126.0	112.0	95.0	124.0	110.0
OKLA	400.0	460.0	380.0	385.0	435.0	330.0
S C	120.0	145.0	120.0	119.0	142.0	118.0
TENN	440.0	535.0	455.0	435.0	530.0	450.0
TEX	4,700.0	5,600.0	4,600.0	4,400.0	5,300.0	3,700.0
VA	1.8	3.2	2.7	1.8	3.2	2.6
U S	10,259.3	12,325.2	10,186.7	9,893.7	11,759.1	9,119.8
AMER-PIMA						
ARIZ	91.0	128.0	245.0	90.8	128.0	244.5
CALIF	.9	1.8	19.0	.9	1.8	19.0
N MEX	14.0	17.8	30.0	13.9	17.8	30.0
TEX	32.0	42.0	80.0	31.0	41.5	76.0
U S	137.9	189.6	374.0	136.6	189.1	369.5
ALL						
ALA	335.0	390.0	350.0	333.0	375.0	340.0
ARIZ	381.0	478.0	485.0	379.8	477.0	483.5
ARK	555.0	695.0	610.0	550.0	675.0	595.0
CALIF	1,150.9	1,351.8	1,069.0	1,140.9	1,336.8	1,059.0
FLA	29.5	33.0	25.5	29.0	29.0	25.0
GA	250.0	350.0	270.0	245.0	315.0	265.0
KANS	1.0	1.0	1.5	.9	.9	1.2
LA	605.0	735.0	645.0	600.0	645.0	620.0
MISS	1,020.0	1,230.0	1,050.0	1,010.0	1,190.0	1,020.0
MO	200.0	245.0	214.0	199.0	242.0	209.0
N MEX	80.0	94.8	91.0	75.9	86.8	85.0
N C	96.0	126.0	112.0	95.0	124.0	110.0
OKLA	400.0	460.0	380.0	385.0	435.0	330.0
S C	120.0	145.0	120.0	119.0	142.0	118.0
TENN	440.0	535.0	455.0	435.0	530.0	450.0
TEX	4,732.0	5,642.0	4,680.0	4,431.0	5,341.5	3,776.0
VA	1.8	3.2	2.7	1.8	3.2	2.6
U S	10,397.2	12,514.8	10,560.7	10,030.3	11,948.2	9,489.3

COTTON

STATE	YIELD			PRODUCTION 1/		
	1987	1988	1989	1987	1988	1989
	POUNDS			1,000 BALES 2/		
UPLAND						
ALA	572	486	551	397.0	380.0	390.0
ARIZ	1,410	1,190	1,326	849.0	865.0	660.0
ARK	786	742	686	901.0	1,044.0	850.0
CALIF	1,259	1,015	1,223	2,989.0	2,824.0	2,650.0
FLA	646	566	653	39.0	34.2	34.0
GA	662	564	634	338.0	370.0	350.0
KANS	480	373	400	.9	.7	1.0
LA	782	705	677	977.0	948.0	875.0
MISS	829	736	734	1,745.0	1,825.0	1,560.0
MO	796	607	618	330.0	306.0	269.0
N MEX	689	710	698	89.0	102.0	80.0
N C	495	515	611	98.0	133.0	140.0
OKLA	431	334	262	346.0	303.0	180.0
S C	428	473	631	106.0	140.0	155.0
TENN	700	529	505	634.0	584.0	473.0
TEX	506	472	376	4,635.0	5,215.0	2,900.0
VA	373	510	609	1.4	3.4	3.3
U S	702	615	609	14,475.3	15,077.3	11,570.3
AMER-PIMA						
ARIZ	1,126	904	893	213.0	241.0	455.0
CALIF	1,173	853	960	2.2	3.2	38.0
N MEX	642	634	672	18.6	23.5	42.0
TEX	787	769	808	50.8	66.5	128.0
U S	1,000	848	861	284.6	334.2	663.0
ALL						
ALA	572	486	551	397.0	380.0	390.0
ARIZ	1,342	1,113	1,107	1,062.0	1,106.0	1,115.0
ARK	786	742	686	901.0	1,044.0	850.0
CALIF	1,258	1,015	1,218	2,991.2	2,827.2	2,688.0
FLA	645	566	653	39.0	34.2	34.0
GA	662	564	634	338.0	370.0	350.0
KANS	480	373	400	.9	.7	1.0
LA	781	705	677	977.0	948.0	875.0
MISS	829	736	734	1,745.0	1,825.0	1,560.0
MO	796	607	618	330.0	306.0	269.0
N MEX	680	694	689	107.6	125.5	122.0
N C	495	515	611	98.0	133.0	140.0
OKLA	431	334	262	346.0	303.0	180.0
S C	427	473	631	106.0	140.0	155.0
TENN	699	529	505	634.0	584.0	473.0
TEX	507	475	385	4,685.8	5,281.5	3,028.0
VA	373	510	609	1.4	3.4	3.3
U S	706	619	619	14,759.9	15,411.5	12,233.3

1/ PRODUCTION GINNED AND TO BE GINNED. 2/ 480-LB. NET WEIGHT BALES.

COTTONSEED

STATE	PRODUCTION		
	1987	1988	1989
	1,000 TONS		
ALA	150.0	136.0	143.8
ARIZ	390.0	433.0	421.7
ARK	338.0	404.0	323.1
CALIF	1,151.8	1,116.3	1,048.1
FLA	14.4	12.0	12.1
GA	122.0	129.0	123.6
KANS	.4	.3	.4
LA	378.0	363.0	335.9
MISS	678.0	712.0	604.9
MO	130.0	124.0	108.8
N MEX	42.3	49.0	47.7
N C	33.0	48.0	49.8
OKLA	155.0	117.0	74.3
S C	36.0	49.0	54.0
TENN	235.0	237.0	184.7
TEX	1,914.8	2,131.0	1,232.1
VA	.5	1.2	1.2
U S	5,769.2	6,061.8	4,766.2

SUNFLOWER

STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
1,000 ACRES						
OIL						
KANS	1/	170	100	1/	167	97
MINN	80	45	45	79	35	44
N DAK	1,200	1,250	980	1,180	1,170	960
S DAK	295	255	293	293	246	280
TEX	12	13	33	11	12	32
U S	1,587	1,733	1,451	1,563	1,630	1,413
NON-OIL						
KANS	1/	30	30	1/	28	28
MINN	10	13	25	9	12	24
N DAK	200	250	340	195	240	330
S DAK	5	5	7	5	4	7
TEX	3	7	27	3	7	24
U S	218	305	429	212	291	413
ALL						
KANS	1/	200	130	1/	195	125
MINN	90	58	70	88	47	68
N DAK	1,400	1,500	1,320	1,375	1,410	1,290
S DAK	300	260	300	298	250	287
TEX	15	20	60	14	19	56
U S	1,805	2,038	1,880	1,775	1,921	1,826
YIELD : PRODUCTION						
	1987	1988	1989	1987	1988	1989
POUNDS			1,000 POUNDS			
OIL						
KANS	1/	1,240	940	1/	207,000	91,180
MINN	1,450	1,350	1,400	114,550	47,250	61,600
N DAK	1,520	880	970	1,793,600	1,029,600	931,200
S DAK	1,300	820	960	380,900	201,720	268,800
TEX	1,200	1,300	1,160	13,200	15,600	37,120
U S	1,473	921	984	2,302,250	1,501,170	1,389,900
NON-OIL						
KANS	1/	1,180	970	1/	33,000	27,160
MINN	1,500	1,400	1,400	13,500	16,800	33,600
N DAK	1,450	950	920	282,750	228,000	303,600
S DAK	1,210	800	1,000	6,050	3,200	7,000
TEX	1,200	1,400	1,250	3,600	9,800	30,000
U S	1,443	999	972	305,900	290,800	401,360
ALL						
KANS	1/	1,230	947	1/	240,000	118,340
MINN	1,455	1,363	1,400	128,050	64,050	95,200
N DAK	1,510	892	957	2,076,350	1,257,600	1,234,800
S DAK	1,298	820	961	386,950	204,920	275,800
TEX	1,200	1,337	1,199	16,800	25,400	67,120
U S	1,469	933	981	2,608,150	1,791,970	1,791,260

1/ ESTIMATES BEGAN IN 1988.

ALL HAY

STATE	AREA HARVESTED			YIELD		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES			TONS		
ALA	700	750	700	2.10	2.00	2.20
ARIZ	190	180	185	7.28	7.36	6.92
ARK	985	970	1,000	1.75	1.72	2.23
CALIF	1,620	1,680	1,670	5.30	5.15	5.10
COLO	1,500	1,650	1,500	2.70	2.40	2.30
CONN	84	79	83	2.30	2.38	2.06
DEL	21	26	25	2.29	2.62	2.92
FLA	275	270	260	2.50	2.40	2.30
GA	600	570	600	2.20	2.20	2.70
IDAHO	1,270	1,140	1,120	3.55	3.40	3.61
ILL	1,000	1,500	1,100	3.17	2.21	3.21
IND	730	940	770	3.08	1.99	3.07
IOWA	2,000	3,200	2,400	3.35	2.11	2.77
KANS	2,400	2,550	2,450	2.51	2.03	2.29
KY	2,135	2,220	2,330	2.04	1.72	2.36
LA	360	355	300	2.71	2.51	2.60
MAINE	204	201	220	1.85	1.92	1.91
MD	255	245	240	2.62	2.71	2.62
MASS	123	109	103	2.22	2.36	2.30
MICH	1,400	1,900	1,550	2.92	2.22	3.36
MINN	2,625	4,000	2,600	2.97	1.74	2.46
MISS	650	650	650	2.20	2.00	2.40
MO	3,450	3,880	3,730	1.77	1.31	1.81
MONT	2,200	1,800	2,350	1.91	1.55	1.90
NEBR	3,100	3,400	3,300	2.21	1.91	1.76
NEV	515	510	520	2.68	2.62	2.81
N H	83	82	76	2.10	2.18	2.20
N J	112	110	111	2.56	2.33	2.17
N MEX	305	295	295	4.40	4.32	4.27
N Y	2,160	2,070	2,080	2.37	2.27	2.18
N C	470	450	515	1.70	1.77	2.25
N DAK	2,850	2,700	3,400	1.63	0.72	0.89
OHIO	1,400	1,625	1,625	3.06	2.18	2.80
OKLA	2,210	2,310	2,400	1.92	1.70	2.09
OREG	1,050	1,035	1,050	2.68	2.56	2.75
PA	1,980	1,960	1,930	2.57	2.33	2.44
R I	8	8	7	2.38	2.50	2.43
S C	235	240	235	2.00	2.10	2.40
S DAK	3,850	4,100	4,100	1.80	0.95	1.05
TENN	1,590	1,610	1,700	1.70	1.45	2.06
TEX	3,240	3,200	3,910	2.45	1.67	2.45
UTAH	645	630	600	3.60	3.46	3.31
VT	388	375	365	2.07	1.91	2.07
VA	1,235	1,210	1,200	1.64	1.86	2.14
WASH	730	800	780	3.60	3.54	3.61
W VA	550	550	560	1.60	1.43	1.85
WIS	3,450	3,780	3,600	2.65	1.31	2.24
WYO	1,200	1,140	1,100	1.85	1.65	1.61
U S	60,133	65,055	63,395	2.45	1.94	2.29

ALL HAY

STATE	PRODUCTION		
	1987	1988	1989
1,000 TONS			
ALA	1,470	1,500	1,540
ARIZ	1,383	1,325	1,280
ARK	1,720	1,671	2,228
CALIF	8,586	8,652	8,524
COLO	4,044	3,957	3,450
CONN	193	188	171
DEL	48	68	73
FLA	688	648	598
GA	1,320	1,254	1,620
IDAHO	4,503	3,881	4,043
ILL	3,169	3,310	3,526
IND	2,249	1,868	2,365
IOWA	6,703	6,760	6,650
KANS	6,020	5,175	5,620
KY	4,346	3,811	5,501
LA	974	891	781
MAINE	378	386	420
MD	668	663	629
MASS	273	257	237
MICH	4,090	4,220	5,205
MINN	7,800	6,960	6,400
MISS	1,430	1,300	1,560
MO	6,095	5,088	6,764
MONT	4,210	2,790	4,470
NEBR	6,865	6,510	5,800
NEV	1,380	1,336	1,463
N H	174	179	167
N J	287	256	241
N MEX	1,341	1,275	1,260
N Y	5,126	4,697	4,538
N C	804	797	1,161
N DAK	4,635	1,940	3,020
OHIO	4,283	3,543	4,553
OKLA	4,233	3,931	5,025
OREG	2,818	2,652	2,890
PA	5,093	4,564	4,709
R I	19	20	17
S C	470	504	564
S DAK	6,920	3,910	4,290
TENN	2,698	2,331	3,499
TEX	7,930	5,350	9,582
UTAH	2,324	2,177	1,986
VT	802	715	754
VA	2,028	2,252	2,565
WASH	2,626	2,833	2,814
W VA	882	785	1,036
WIS	9,140	4,952	8,080
WYO	2,219	1,878	1,776
U S	147,457	126,010	145,445

ALFALFA AND ALFALFA MIXTURES FOR HAY

STATE	AREA HARVESTED			YIELD		
	1987	1988 1/2	1989	1987	1988	1989
	1,000 ACRES			TONS		
ARIZ	160	155	150	7.80	7.90	7.60
ARK	35	35	35	3.00	2.30	3.00
CALIF	1,080	1,100	1,020	6.70	6.60	6.70
COLO	830	780	750	3.50	3.40	3.20
CONN	21	19	17	2.75	2.79	2.70
DEL	9	9	9	2.75	3.75	4.10
IDAHO	1,020	920	930	3.90	3.80	4.00
ILL	570	950	780	3.90	2.50	3.70
IND	380	460	400	3.80	2.60	3.60
IOWA	1,450	2,400	1,900	3.75	2.35	3.00
KANS	850	750	850	3.80	3.30	3.60
KY	335	370	380	3.30	2.80	3.70
LA	12	10	5	2.80	2.80	2.80
MAINE	24	21	20	2.25	2.50	2.00
MD	85	80	85	3.75	3.75	3.75
MASS	33	33	31	2.55	2.60	2.65
MICH	1,100	1,300	1,300	3.20	2.60	3.60
MINN	1,700	2,400	1,700	3.50	1.90	2.60
MO	500	480	530	2.75	2.10	2.80
MONT	1,300	1,100	1,350	2.20	1.90	2.20
NEBR	1,300	1,350	1,300	3.55	3.00	3.00
NEV	245	250	245	4.20	4.20	4.40
N H	20	17	16	2.40	2.45	2.55
N J	40	39	34	3.40	3.10	2.80
N MEX	240	240	235	5.10	4.90	4.90
N Y	930	880	840	2.80	2.70	2.45
N C	25	30	35	2.80	2.75	3.00
N DAK	1,550	1,000	1,500	1.90	0.75	1.00
OHIO	710	725	725	3.70	2.90	3.30
OKLA	410	410	450	3.30	3.10	3.80
OREG	400	385	400	4.20	4.10	4.30
PA	850	840	820	3.20	2.90	2.90
R I	3	2	2	2.70	2.75	2.65
S DAK	2,300	2,100	2,000	2.20	1.10	1.20
TENN	140	110	90	2.70	2.10	3.10
TEX	140	100	110	3.50	3.90	4.20
UTAH	485	490	470	4.10	3.90	3.70
VT	108	100	105	2.50	2.20	2.35
VA	135	130	150	2.80	3.20	3.80
WASH	460	490	480	4.30	4.20	4.30
W VA	80	70	70	2.80	2.30	2.90
WIS	2,800	3,100	3,100	2.80	1.40	2.30
WYO	570	520	520	2.40	2.30	2.30
U S	25,435	26,750	25,939	3.31	2.59	2.98

1/ INCLUDES SUBSTANTIAL ACREAGE OF SET ASIDE AND CONSERVATION RESERVE ACRES THAT WERE RELEASED FOR HAYING AND HARVESTED FOR HAY DUE TO DROUGHT.

ALFALFA AND ALFALFA MIXTURES FOR HAY

STATE	PRODUCTION		
	1987	1988	1989
	1,000 TONS		
ARIZ	1,248	1,225	1,140
ARK	105	81	105
CALIF	7,236	7,260	6,834
COLO	2,905	2,652	2,400
CONN	58	53	46
DEL	25	34	37
IDAHO	3,978	3,496	3,720
ILL	2,223	2,375	2,886
IND	1,444	1,196	1,440
IOWA	5,438	5,640	5,700
KANS	3,230	2,475	3,060
KY	1,106	1,036	1,406
LA	34	28	14
MAINE	54	53	40
MD	319	300	319
MASS	84	86	82
MICH	3,520	3,380	4,680
MINN	5,950	4,560	4,420
MO	1,375	1,008	1,484
MONT	2,860	2,090	2,970
NEBR	4,615	4,050	3,900
NEV	1,029	1,050	1,078
N H	48	42	41
N J	136	121	95
N MEX	1,224	1,176	1,152
N Y	2,604	2,376	2,058
N C	70	83	105
N DAK	2,945	750	1,500
OHIO	2,627	2,103	2,393
OKLA	1,353	1,271	1,710
OREG	1,680	1,579	1,720
PA	2,720	2,436	2,378
R I	8	6	5
S DAK	5,060	2,310	2,400
TENN	378	231	279
TEX	490	390	462
UTAH	1,988	1,911	1,739
VT	270	220	247
VA	378	416	570
WASH	1,978	2,058	2,064
W VA	224	161	203
WIS	7,840	4,340	7,130
WYO	1,368	1,196	1,196
U S	84,225	69,304	77,208

ALL OTHER HAY

STATE	AREA HARVESTED			YIELD		
	1987	1988 1/	1989	1987	1988	1989
	1,000 ACRES			TONS		
ALA	700	750	700	2.10	2.00	2.20
ARIZ	30	25	35	4.50	4.00	4.00
ARK	950	935	965	1.70	1.70	2.20
CALIF	540	580	650	2.50	2.40	2.60
COLO	670	870	750	1.70	1.50	1.40
CONN	63	60	66	2.15	2.25	1.90
DEL	12	17	16	1.95	2.00	2.25
FLA	275	270	260	2.50	2.40	2.30
GA	600	570	600	2.20	2.20	2.70
IDAHO	250	220	190	2.10	1.75	1.70
ILL	430	550	320	2.20	1.70	2.00
IND	350	480	370	2.30	1.40	2.50
IOWA	550	800	500	2.30	1.40	1.90
KANS	1,550	1,800	1,600	1.80	1.50	1.60
KY	1,800	1,850	1,950	1.80	1.50	2.10
LA	348	345	295	2.70	2.50	2.60
MAINE	180	180	200	1.80	1.84	1.90
MD	170	165	155	2.05	2.20	2.00
MASS	90	76	72	2.10	2.25	2.15
MICH	300	600	250	1.90	1.40	2.10
MINN	925	1,600	900	2.00	1.50	2.20
MISS	650	650	650	2.20	2.00	2.40
MO	2,950	3,400	3,200	1.60	1.20	1.65
MONT	900	700	1,000	1.50	1.00	1.50
NEBR	1,800	2,050	2,000	1.25	1.20	0.95
NEV	270	260	275	1.30	1.10	1.40
N H	63	65	60	2.00	2.10	2.10
N J	72	71	77	2.10	1.90	1.90
N MEX	65	55	60	1.80	1.80	1.80
N Y	1,230	1,190	1,240	2.05	1.95	2.00
N C	445	420	480	1.65	1.70	2.20
N DAK	1,300	1,700	1,900	1.30	0.70	0.80
OHIO	690	900	900	2.40	1.60	2.40
OKLA	1,800	1,900	1,950	1.60	1.40	1.70
OREG	650	650	650	1.75	1.65	1.80
PA	1,130	1,120	1,110	2.10	1.90	2.10
R I	5	6	5	2.20	2.30	2.30
S C	235	240	235	2.00	2.10	2.40
S DAK	1,550	2,000	2,100	1.20	0.80	0.90
TENN	1,450	1,500	1,610	1.60	1.40	2.00
TEX	3,100	3,100	3,800	2.40	1.60	2.40
UTAH	160	140	130	2.10	1.90	1.90
VT	280	275	260	1.90	1.80	1.95
VA	1,100	1,080	1,050	1.50	1.70	1.90
WASH	270	310	300	2.40	2.50	2.50
W VA	470	480	490	1.40	1.30	1.70
WIS	650	680	500	2.00	0.90	1.90
WYO	630	620	580	1.35	1.10	1.00
U S	34,698	38,305	37,456	1.82	1.48	1.82

1/ INCLUDES SUBSTANTIAL ACREAGE OF SET ASIDE AND CONSERVATION RESERVE ACRES THAT WERE RELEASED FOR HAYING AND HARVESTED FOR HAY DUE TO DROUGHT.

ALL OTHER HAY

STATE	PRODUCTION		
	1987	1988	1989
	I,000 TONS		
ALA	1,470	1,500	1,540
ARIZ	135	100	140
ARK	1,615	1,590	2,123
CALIF	1,350	1,392	1,690
COLO	1,139	1,305	1,050
CONN	135	135	125
DEL	23	34	36
FLA	688	648	598
GA	1,320	1,254	1,620
IDAHO	525	385	323
ILL	946	935	640
IND	805	672	925
IOWA	1,265	1,120	950
KANS	2,790	2,700	2,560
KY	3,240	2,775	4,095
LA	940	863	767
MAINE	324	333	380
MD	349	363	310
MASS	189	171	155
MICH	570	840	525
MINN	1,850	2,400	1,980
MISS	1,430	1,300	1,560
MO	4,720	4,080	5,280
MONT	1,350	700	1,500
NEBR	2,250	2,460	1,900
NEV	351	286	385
N H	126	137	126
N J	151	135	146
N MEX	117	99	108
N Y	2,522	2,321	2,480
N C	734	714	1,056
N DAK	1,690	1,190	1,520
OHIO	1,656	1,440	2,160
OKLA	2,880	2,660	3,315
OREG	1,138	1,073	1,170
PA	2,373	2,128	2,331
R I	11	14	12
S C	470	504	564
S DAK	1,860	1,600	1,890
TENN	2,320	2,100	3,220
TEX	7,440	4,960	9,120
UTAH	336	266	247
VT	532	495	507
VA	1,650	1,836	1,995
WASH	648	775	750
W VA	658	624	833
WIS	1,300	612	950
WYO	851	682	580
U S	63,232	56,706	68,237

DRY EDIBLE BEANS 1/

STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
LARGE LIMA						
CALIF	22.0	29.0	33.0	21.0	28.0	32.0
BABY LIMA						
CALIF	22.0	30.0	36.0	21.0	29.0	35.0
OTHER						
CALIF	128.0	92.0	119.0	126.0	90.0	117.0
ALL						
CALIF	172.0	151.0	188.0	168.0	147.0	184.0
COLO	185.0	160.0	195.0	180.0	155.0	185.0
IDAHO	152.0	120.0	170.0	148.0	119.0	168.0
KANS	26.0	21.0	24.0	25.0	20.0	21.0
MICH	450.0	245.0	330.0	395.0	170.0	300.0
MINN	75.0	65.0	82.0	74.0	60.0	70.0
MONT	5.8	4.4	6.0	5.7	4.0	5.9
NEBR	230.0	200.0	220.0	197.0	193.0	208.0
N MEX	13.0	14.5	15.0	13.0	14.5	14.0
N Y	29.0	27.0	32.0	28.0	25.0	31.0
N DAK	370.0	400.0	500.0	359.0	370.0	410.0
UTAH	6.8	4.5	5.6	6.7	4.5	5.0
WASH	36.0	37.0	44.0	35.0	36.0	43.0
WYO	32.0	36.0	46.0	31.0	35.0	45.0
U S	1,782.6	1,485.4	1,857.6	1,665.4	1,353.0	1,689.9
	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	POUNDS			1,000 CWT		
LARGE LIMA						
CALIF	2,070	2,050	1,910	435	574	611
BABY LIMA						
CALIF	2,310	2,320	2,120	485	673	742
OTHER						
CALIF	1,760	1,820	1,780	2,218	1,638	2,083
ALL						
CALIF	1,868	1,963	1,867	3,138	2,885	3,436
COLO	1,490	1,650	1,680	2,682	2,558	3,108
IDAHO	1,900	1,890	2,050	2,812	2,249	3,444
KANS	1,450	1,550	1,550	363	310	326
MICH	1,300	1,260	1,500	5,135	2,142	4,500
MINN	1,600	800	1,300	1,184	480	910
MONT	2,190	1,900	2,200	125	76	130
NEBR	1,780	1,950	1,680	3,507	3,764	3,494
N MEX	1,930	2,200	2,000	251	319	280
N Y	1,500	1,300	1,450	420	325	450
N DAK	1,400	730	600	5,026	2,701	2,460
UTAH	700	580	300	47	26	15
WASH	2,130	2,060	2,160	746	742	929
WYO	1,920	1,930	1,890	595	676	851
U S	1,563	1,423	1,440	26,031	19,253	24,333

1/ EXCLUDES BEANS GROWN FOR GARDEN SEED.

DRY EDIBLE BEANS BY COMMERCIAL CLASSES

CLASS AND STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
NAVY						
KS	2.9	.5	2.6	2.7	.4	2.5
MI	360.0	205.0	260.0	315.0	140.0	238.0
MN	39.0	35.0	43.0	38.0	31.0	36.0
NB	3.5	5.5	3.5	3.1	5.4	3.2
NM	3.1	5.3	4.0	3.1	5.3	4.0
ND	159.9	171.0	190.0	153.9	155.0	140.0
TOTAL	568.4	422.3	503.1	515.8	337.1	423.7
GREAT NORTHERN						
ID	20.0	16.5	11.6	20.0	16.4	11.4
KS	2.5	1.7	.7	2.4	1.5	.6
MN	2.0			2.0		
NB	133.0	114.0	114.0	108.5	111.0	106.0
WA		1.6	1.7		1.6	1.7
WY	3.5	5.8	5.0	3.4	5.7	4.5
TOTAL	161.0	139.6	133.0	136.3	136.2	124.2
SMALL WHITE						
CA	2.5	2.0		2.5	2.0	
ID	10.4	9.0	5.9	10.3	9.0	5.8
MI	9.5	5.0	9.0	9.0	4.3	8.0
NB	2.0	.8		1.7	.6	
WA	9.7	11.0	6.8	9.5	10.8	6.7
TOTAL	34.1	27.8	21.7	33.0	26.7	20.5
PINTO						
CO	173.5	146.0	182.0	169.0	141.5	173.0
ID	60.7	50.2	85.0	60.5	49.5	84.1
KS	19.5	17.1	20.5	19.0	16.5	17.7
MI	13.0	1.8	3.0	11.0	1.0	2.5
MN	23.0	17.0	21.0	23.0	17.0	18.0
MT	4.1	3.6	4.6	4.0	3.3	4.5
NB	84.0	75.0	90.0	77.0	72.0	87.0
NM	8.0	8.0	10.0	8.0	8.0	9.0
ND	205.0	220.0	290.0	200.1	207.0	254.0
UT	6.8	4.5	5.6	6.7	4.5	5.0
WA	11.5	7.1	14.5	11.2	7.0	14.0
WY	28.5	30.2	41.0	27.6	29.3	40.5
TOTAL	637.6	580.5	767.2	617.1	556.6	709.3
RED KIDNEY						
CA	45.0	32.0	48.0	45.0	31.0	47.0
ID	2.5	1.0	1.1	2.5	1.0	1.1
MI	32.0	17.0	16.0	31.0	14.0	14.0
MN	10.0	12.0	17.0	10.0	11.0	15.0
NB	7.0	4.3	11.5	6.3	3.7	11.0
NY	20.5	18.0	22.0	20.0	17.0	21.5
TOTAL	118.0	84.3	115.6	114.8	77.7	109.6

DRY EDIBLE BEANS BY COMMERCIAL CLASSES

CLASS AND STATE	YIELD PER ACRE			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	POUNDS			1,000 CWT		
NAVY						
KS	1,590	1,500	2,400	43	6	60
MI	1,310	1,240	1,500	4,125	1,736	3,570
MN	1,710	710	1,390	650	220	500
NB	1,740	1,910	1,810	54	103	58
NM	2,100	2,380	2,000	65	126	80
ND	1,470	770	510	2,262	1,188	714
TOTAL	1,396	1,002	1,176	7,199	3,379	4,982
GREAT NORTHERN						
ID	2,140	1,920	2,050	428	315	234
KS	1,500	1,800	1,170	36	27	7
MN	2,000			40		
NB	1,760	2,140	1,650	1,907	2,373	1,749
WA		1,630	2,000		26	34
WY	1,910	2,040	2,180	65	116	98
TOTAL	1,817	2,098	1,709	2,476	2,857	2,122
SMALL WHITE						
CA	1,920	1,350		48	27	
ID	1,810	1,740	1,900	186	157	110
MI	1,430	1,400	1,500	129	60	120
NB	1,760	2,000		30	12	
WA	2,190	2,180	2,160	208	235	145
TOTAL	1,821	1,839	1,829	601	491	375
PINTO						
CO	1,470	1,620	1,670	2,480	2,288	2,890
ID	1,940	1,860	2,050	1,172	923	1,722
KS	1,440	1,500	1,450	274	247	256
MI	1,150	1,400	1,400	126	14	35
MN	1,500	710	910	345	120	163
MT	2,230	1,910	2,220	89	63	100
NB	1,820	1,670	1,720	1,400	1,200	1,496
NM	1,930	2,090	2,030	154	167	183
ND	1,350	690	620	2,694	1,432	1,574
UT	700	580	300	47	26	15
WA	2,220	2,270	2,140	249	159	299
WY	1,920	1,910	1,860	530	560	753
TOTAL	1,549	1,293	1,337	9,560	7,199	9,486
RED KIDNEY						
CA	1,810	1,670	1,590	813	519	747
ID	1,480	1,800	1,550	37	18	17
MI	1,190	1,300	1,400	370	182	196
MN	1,400	1,090	1,580	140	120	237
NB	1,750	1,890	1,610	110	70	177
NY	1,490	1,240	1,480	298	211	318
TOTAL	1,540	1,441	1,544	1,768	1,120	1,692

DRY EDIBLE BEANS BY COMMERCIAL CLASSES

CLASS AND STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
PINK						
CA	5.5	5.0	16.0	5.5	5.0	16.0
ID	34.5	25.0	43.6	34.5	24.9	43.1
MT	1.7	.8	1.4	1.7	.7	1.4
NM	1.9	.7	.5	1.9	.7	.5
WA	1.2	.8	1.8	1.1	.8	1.8
TOTAL	44.8	32.3	63.3	44.7	32.1	62.8
SMALL RED						
ID	12.1	16.0	17.8	12.1	15.9	17.6
WA	6.6	11.1	13.4	6.5	10.9	13.2
TOTAL	18.7	27.1	31.2	18.6	26.8	30.8
CRANBERRY						
MI	20.0	12.0	11.0	16.0	8.0	9.0
TOTAL	20.0	12.0	11.0	16.0	8.0	9.0
BLACK TURTLE SOUP						
MI	10.0	1.3	28.0	9.0	1.0	26.0
NY	6.0	6.3	7.1	5.7	5.6	6.8
TOTAL	16.0	7.6	35.1	14.7	6.6	32.8
BLACKEYE						
CA	63.5	44.0	40.0	62.5	43.0	39.0
TOTAL	63.5	44.0	40.0	62.5	43.0	39.0
GARBANZO						
CA	4.0	1.0		4.0	1.0	
ID	7.2			3.6		
WA	4.0	4.0	3.4	3.8	3.5	3.3
TOTAL	15.2	5.0	3.4	11.4	4.5	3.3
OTHER						
CA	6.5	8.0	15.0	6.5	8.0	15.0
CO	11.5	14.0	13.0	11.0	13.5	12.0
ID	4.6	2.3	5.0	4.5	2.3	4.9
KS	1.1	1.7	.2	.9	1.6	.2
MI	5.5	2.9	3.0	4.0	1.7	2.5
MN	1.0	1.0	1.0	1.0	1.0	1.0
NB	.5	.4	1.0	.4	.3	.8
NM		.5	.5		.5	.5
NY	2.5	2.7	2.9	2.3	2.4	2.7
ND	5.1	9.0	20.0	5.0	8.0	16.0
WA	3.0	1.4	2.4	2.9	1.4	2.3
TOTAL	41.3	43.9	64.0	38.5	40.7	57.9

DRY EDIBLE BEANS BY COMMERCIAL CLASSES

CLASS AND STATE	YIELD PER ACRE			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	POUNDS			1,000 CWT		
PINK						
CA	1,710	1,800	1,640	94	90	262
ID	1,860	1,900	2,080	640	472	895
MT	2,120	1,860	2,140	36	13	30
NM	1,680	2,710	2,000	32	19	10
WA	2,450	2,250	2,330	27	18	42
TOTAL	1,855	1,907	1,973	829	612	1,239
SMALL RED						
ID	1,910	2,010	2,110	231	319	372
WA	2,510	2,230	2,480	163	243	327
TOTAL	2,118	2,097	2,269	394	562	699
CRANBERRY						
MI	1,280	1,380	1,710	205	110	154
TOTAL	1,280	1,380	1,710	205	110	154
BLACK TURTLE SOUP						
MI	1,440	1,600	1,500	130	16	390
NY	1,600	1,500	1,410	91	84	96
TOTAL	1,503	1,515	1,482	221	100	486
BLACK EYE						
CA	1,780	1,960	2,030	1,110	843	792
TOTAL	1,780	1,960	2,030	1,110	843	792
GARBANZO						
CA	880	1,100		35	11	
ID	500			18		
WA	1,030	1,060	1,060	39	37	35
TOTAL	807	1,067	1,060	92	48	35
OTHER						
CA	1,820	1,850	1,880	118	148	282
CO	1,840	2,000	1,820	202	270	218
ID	2,220	1,960	1,920	100	45	94
KS	1,110	1,880	1,500	10	30	3
MI	1,250	1,410	1,400	50	24	35
MN	900	2,000	1,000	9	20	10
NB	1,500	2,000	1,750	6	6	14
NM		1,400	1,400		7	7
NY	1,350	1,250	1,330	31	30	36
ND	1,400	1,010	1,080	70	81	172
WA	2,070	1,710	2,040	60	24	47
TOTAL	1,704	1,683	1,585	656	685	918

LENTILS

STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
IDAHO	45.0	23.0	39.0	45.0	23.0	38.0
WASH	98.0	49.0	55.0	97.0	48.0	54.0
U S	143.0	72.0	94.0	142.0	71.0	92.0
	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	POUNDS			1,000 CWT		
IDAHO	1,400	1,300	1,350	630	299	513
WASH	1,200	1,240	1,200	1,164	595	648
U S	1,263	1,259	1,262	1,794	894	1,161

WRINKLED SEED PEAS

STATE	PRODUCTION		
	1987	1988	1989
	1,000 CWT		
IDAHO	350	595	655
WASH	300	422	595
U S	650	1,017	1,250

DRY EDIBLE PEAS

STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
IDAHO	56.0	64.0	60.0	55.0	63.0	60.0
WASH	107.0	117.0	115.0	106.0	116.0	114.0
U S	163.0	181.0	175.0	161.0	179.0	174.0
	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	POUNDS			1,000 CWT		
IDAHO	2,300	2,200	2,330	1,265	1,386	1,398
WASH	2,000	2,140	2,180	2,120	2,482	2,485
U S	2,102	2,161	2,232	3,385	3,868	3,883

AUSTRIAN WINTER PEAS

STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
IDAHO	38.0	8.0	9.7	30.0	7.0	8.7
OREG	6.0	5.0	2.5	5.0	3.0	1.5
U S	44.0	13.0	12.2	35.0	10.0	10.2
	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	POUNDS			1,000 CWT		
IDAHO	1,600	1,300	1,700	480	91	148
OREG	1,400	1,400	1,200	70	42	18
U S	1,571	1,330	1,627	550	133	166

POTATOES: ACREAGE

STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
ALA	13.9	12.9	13.2	13.6	12.6	12.9
ARIZ	4.9	5.3	5.8	4.9	5.3	5.8
CALIF	50.8	47.2	49.1	50.6	47.2	49.1
COLO	67.5	66.2	68.5	66.3	65.6	67.9
CONN	.5	.6	.4	.5	.6	.3
DEL	8.0	8.4	7.7	8.0	8.4	7.2
FLA	36.5	36.9	43.6	35.7	36.1	42.6
IDAHO	340.0	350.0	355.0	337.0	347.0	353.0
ILL	3.4	3.5	3.4	3.1	3.2	3.3
IND	5.4	4.9	4.4	5.0	4.2	4.0
IOWA	2.0	1.8	1.5	2.0	1.7	1.5
LA	.5	.5	.4	.3	.4	.3
MAINE	84.0	81.0	80.0	83.0	80.0	80.0
MD	2.5	2.3	2.1	2.5	2.3	1.8
MASS	2.8	2.7	2.6	2.8	2.6	2.5
MICH	48.0	46.5	43.5	46.8	43.0	40.0
MINN	78.5	75.9	73.4	77.4	74.7	72.3
MONT	8.0	7.8	8.2	7.9	7.7	8.1
NEBR	10.5	10.4	10.4	10.0	9.9	10.2
NEV	8.0	8.0	8.0	8.0	8.0	8.0
N J	6.7	5.3	4.9	6.6	5.2	4.8
N MEX	10.5	10.3	11.6	10.0	10.2	11.5
N Y	35.8	33.4	30.0	34.7	32.3	28.8
N C	17.6	16.0	17.7	17.4	15.8	17.0
N DAK	135.0	140.0	140.0	130.0	135.0	137.0
OHIO	10.3	9.5	8.5	9.8	8.7	7.9
OREG	56.0	46.0	51.0	55.0	45.0	50.0
PA	22.0	21.5	21.0	21.5	20.5	20.5
R I	1.5	1.2	1.2	1.5	1.2	1.2
S DAK	12.0	11.0	10.0	11.0	10.0	9.0
TENN	1.3	1.0	.6	1.3	.9	.6
TEX	18.5	15.9	18.4	17.2	15.2	16.3
UTAH	6.6	6.8	6.3	6.6	6.6	6.1
VA	14.5	14.0	13.0	14.1	12.8	12.0
WASH	124.0	115.0	118.0	124.0	115.0	118.0
WIS	66.0	63.0	68.5	65.0	62.5	68.0
WYO	2.6	2.0	2.2	2.3	1.9	2.1
U S	1,316.6	1,284.7	1,304.1	1,293.4	1,259.3	1,281.6

POTATOES: YIELD AND PRODUCTION

STATE	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	CWT			1,000 CWT		
ALA	143	108	199	1,940	1,355	2,571
ARIZ	275	235	315	1,348	1,246	1,827
CALIF	376	355	366	19,039	16,765	17,991
COLO	322	319	333	21,359	20,901	22,587
CONN	246	225	220	123	135	66
DEL	210	215	160	1,680	1,806	1,152
FLA	196	226	195	6,987	8,173	8,304
IDAHO	296	296	290	99,710	102,610	102,475
ILL	260	230	260	806	736	858
IND	250	180	240	1,250	756	960
IOWA	180	170	180	360	289	270
LA	60	50	90	18	20	27
MAINE	280	275	275	23,240	22,000	22,000
MD	200	200	175	500	460	315
MASS	235	220	240	658	572	600
MICH	254	220	230	11,880	9,440	9,200
MINN	236	181	218	18,250	13,557	15,750
MONT	300	280	275	2,370	2,156	2,228
NEBR	285	285	306	2,850	2,818	3,126
NEV	340	310	325	2,720	2,480	2,600
N J	190	195	185	1,254	1,014	888
N MEX	350	300	350	3,500	3,060	4,025
N Y	250	210	230	8,675	6,792	6,628
N C	156	184	136	2,717	2,904	2,310
N DAK	185	115	110	24,050	15,525	15,070
OHIO	230	195	185	2,254	1,697	1,462
OREG	471	461	466	25,924	20,735	23,308
PA	220	180	230	4,730	3,690	4,715
R I	175	250	250	263	300	300
S DAK	210	160	220	2,310	1,600	1,980
TENN	80	66	100	104	59	60
TEX	195	223	209	3,350	3,397	3,408
UTAH	240	245	245	1,584	1,617	1,495
VA	140	160	120	1,974	2,048	1,440
WASH	540	550	545	66,960	63,250	64,310
WIS	340	320	345	22,100	20,000	23,460
WYO	210	250	275	483	475	578
U S	301	283	289	389,320	356,438	370,344

POTATOES BY SEASONAL GROUPS

SEASONAL GROUP: AND STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
WINTER						
CALIF	4.6	5.2	5.5	4.6	5.2	5.5
FLA	7.3	7.3	7.6	7.1	7.1	7.6
TOTAL	11.9	12.5	13.1	11.7	12.3	13.1
SPRING						
ALA	5.7	5.0	5.5	5.6	4.9	5.4
ARIZ	4.9	5.3	5.8	4.9	5.3	5.8
CALIF	21.3	19.6	21.0	21.3	19.6	21.0
FLA-HASTINGS	27.0	27.0	28.5	26.5	26.5	28.0
-OTHER	2.2	2.6	7.5	2.1	2.5	7.0
LA	.5	.5	.4	.3	.4	.3
N C	16.0	14.5	16.2	15.9	14.4	15.6
TEX	7.0	6.4	7.4	6.2	6.2	5.8
TOTAL	84.6	80.9	92.3	82.8	79.8	88.9
	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	CWT			1,000 CWT		
WINTER						
CALIF	235	230	240	1,081	1,196	1,320
FLA	200	200	190	1,420	1,420	1,444
TOTAL	214	213	211	2,501	2,616	2,764
SPRING						
ALA	125	135	240	700	662	1,296
ARIZ	275	235	315	1,348	1,246	1,827
CALIF	370	385	375	7,881	7,546	7,875
FLA-HASTINGS	195	235	195	5,168	6,228	5,460
-OTHER	190	210	200	399	525	1,400
LA	60	50	90	18	20	27
N C	160	190	140	2,544	2,736	2,184
TEX	150	185	135	930	1,147	783
TOTAL	229	252	235	18,988	20,110	20,852

POTATOES BY SEASONAL GROUPS CONTINUED

SEASONAL GROUP AND STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
SUMMER						
ALA	8.2	7.9	7.7	8.0	7.7	7.5
CALIF	6.6	5.9	6.1	6.4	5.9	6.1
COLO	6.5	6.2	6.5	6.3	6.1	6.4
DEL	8.0	8.4	7.7	8.0	8.4	7.2
ILL	3.4	3.5	3.4	3.1	3.2	3.3
IOWA	2.0	1.8	1.5	2.0	1.7	1.5
MD	2.5	2.3	2.1	2.5	2.3	1.8
MICH	11.0	10.5	10.5	10.8	9.0	10.0
MINN	6.5	5.9	6.4	6.4	5.7	6.3
NEBR	2.7	2.4	2.4	2.5	2.3	2.3
N J	6.7	5.3	4.9	6.6	5.2	4.8
N MEX	10.5	10.3	11.6	10.0	10.2	11.5
N C	1.6	1.5	1.5	1.5	1.4	1.4
TENN	1.3	1.0	.6	1.3	.9	.6
TEX	11.5	9.5	11.0	11.0	9.0	10.5
VA	14.5	14.0	13.0	14.1	12.8	12.0
TOTAL	103.5	96.4	96.9	100.5	91.8	93.2
FALL						
CALIF	18.3	16.5	16.5	18.3	16.5	16.5
COLO	61.0	60.0	62.0	60.0	59.5	61.5
CONN	.5	.6	.4	.5	.6	.3
IDAHO-10 SW CO	18.0	18.0	17.0	18.0	18.0	17.0
-OTHER	322.0	332.0	338.0	319.0	329.0	336.0
IND	5.4	4.9	4.4	5.0	4.2	4.0
MAINE	84.0	81.0	80.0	83.0	80.0	80.0
MASS	2.8	2.7	2.6	2.8	2.6	2.5
MICH	37.0	36.0	33.0	36.0	34.0	30.0
MINN	72.0	70.0	67.0	71.0	69.0	66.0
MONT	8.0	7.8	8.2	7.9	7.7	8.1
NEBR	7.8	8.0	8.0	7.5	7.6	7.9
NEV	8.0	8.0	8.0	8.0	8.0	8.0
N Y-LONG IS	9.8	8.4	7.5	9.7	8.3	7.3
-UPSTATE	26.0	25.0	22.5	25.0	24.0	21.5
N DAK	135.0	140.0	140.0	130.0	135.0	137.0
OHIO	10.3	9.5	8.5	9.8	8.7	7.9
OREG-MALHEUR	7.0	6.6	5.4	6.8	6.4	5.2
-OTHER CO	49.0	39.4	45.6	48.2	38.6	44.8
PA	22.0	21.5	21.0	21.5	20.5	20.5
R I	1.5	1.2	1.2	1.5	1.2	1.2
S DAK	12.0	11.0	10.0	11.0	10.0	9.0
UTAH	6.6	6.8	6.3	6.6	6.6	6.1
WASH	124.0	115.0	118.0	124.0	115.0	118.0
WIS	66.0	63.0	68.5	65.0	62.5	68.0
WYO	2.6	2.0	2.2	2.3	1.9	2.1
TOTAL	1,116.6	1,094.9	1,101.8	1,098.4	1,075.4	1,086.4
U S	1,316.6	1,284.7	1,304.1	1,293.4	1,259.3	1,281.6

POTATOES BY SEASONAL GROUP CONTINUED

SEASONAL GROUP AND STATE	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	CWT			1,000 CWT		
SUMMER						
ALA	155	90	170	1,240	693	1,275
CALIF	345	325	360	2,208	1,918	2,196
COLO	295	305	310	1,859	1,861	1,984
DEL	210	215	160	1,680	1,806	1,152
ILL	260	230	260	806	736	858
IOWA	180	170	180	360	289	270
MD	200	200	175	500	460	315
MICH	200	180	230	2,160	1,620	2,300
MINN	300	260	300	1,920	1,482	1,890
NEBR	270	300	260	675	690	598
N J	190	195	185	1,254	1,014	888
N MEX	350	300	350	3,500	3,060	4,025
N C	115	120	90	173	168	126
TENN	80	65	100	104	59	60
TEX	220	250	250	2,420	2,250	2,625
VA	140	160	120	1,974	2,048	1,440
TOTAL	227	220	236	22,833	20,154	22,002
FALL						
CALIF	430	370	400	7,869	6,105	6,600
COLO	325	320	335	19,500	19,040	20,603
CONN	245	225	220	123	135	66
IDAHO-10 SW CO	400	400	395	7,200	7,200	6,715
-OTHER CO	290	290	285	92,510	95,410	95,760
IND	250	180	240	1,250	756	960
MAINE	280	275	275	23,240	22,000	22,000
MASS	235	220	240	658	572	600
MICH	270	230	230	9,720	7,820	6,900
MINN	230	175	210	16,330	12,075	13,860
MONT	300	280	275	2,370	2,156	2,228
NEBR	290	280	320	2,175	2,128	2,528
NEV	340	310	325	2,720	2,480	2,600
N Y-LONG IS	250	240	260	2,425	1,992	1,898
-UPSTATE	250	200	220	6,250	4,800	4,730
N DAK	185	115	110	24,050	15,525	15,070
OHIO	230	195	185	2,254	1,697	1,462
OREG-MALHEUR	410	375	390	2,788	2,400	2,028
-OTHER CO	480	475	475	23,136	18,335	21,280
PA	220	180	230	4,730	3,690	4,715
R I	175	250	250	263	300	300
S DAK	210	160	220	2,310	1,600	1,980
UTAH	240	245	245	1,584	1,617	1,495
WASH	540	550	545	66,960	63,250	64,310
WIS	340	320	345	22,100	20,000	23,460
WYO	210	250	275	483	475	578
TOTAL	314	292	299	344,998	313,558	324,726
U S	301	283	289	389,320	356,438	370,344

SWEETPOTATOES

STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES					
ALA	4.1	4.2	4.0	4.0	4.1	3.9
CALIF	6.6	7.1	7.7	6.6	7.1	7.7
GA	4.5	4.8	5.0	4.2	4.5	4.8
LA	20.0	18.0	19.0	19.0	17.0	18.0
MD	.8	.9	.6	.8	.9	.5
MISS	5.0	4.0	3.0	4.5	3.5	3.0
N J	2.3	2.4	2.2	2.3	2.3	2.1
N C	36.0	35.0	35.0	35.0	34.0	34.0
S C	3.5	3.1	3.2	3.5	3.0	3.0
TENN	.8	.8	.6	.8	.8	.6
TEX	7.7	7.8	7.8	7.3	7.4	7.3
VA	1.0	1.0	.8	.9	.9	.8
U S	92.3	89.1	88.9	88.9	85.5	85.7
	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	CWT			1,000 CWT		
ALA	90	115	120	360	472	468
CALIF	205	170	200	1,353	1,207	1,540
GA	150	160	180	630	720	864
LA	130	145	150	2,470	2,465	2,700
MD	140	150	160	112	135	80
MISS	110	100	95	495	350	285
N J	120	75	85	276	173	179
N C	130	130	120	4,550	4,420	4,080
S C	95	100	110	333	300	330
TENN	110	90	100	88	72	60
TEX	115	70	110	840	518	803
VA	115	125	135	104	113	108
U S	131	128	134	11,611	10,945	11,499

TOBACCO BY STATES

STATE	AREA HARVESTED			YIELD		
	1987	1988	1989	1987	1988	1989
	ACRES			POUNDS		
CONN	1,850	1,810	1,830	1,514	1,641	1,520
FLA	5,600	6,400	7,000	2,465	2,680	2,600
GA	32,000	38,000	40,000	2,255	2,260	2,175
IND	5,400	5,500	6,100	2,050	1,990	2,170
KY	148,300	158,000	182,200	2,056	2,247	2,189
MD	11,700	9,000	8,500	1,140	1,330	1,250
MASS	520	520	480	1,256	1,475	1,394
MO	1,800	2,200	2,500	1,960	2,010	2,140
N C	224,900	249,900	267,100	2,075	2,211	2,028
OHIO	7,350	7,820	9,000	1,639	1,854	1,900
PA	10,000	9,500	10,000	1,880	1,913	1,920
S C	42,000	45,000	48,000	2,240	2,225	2,135
TENN	49,440	48,520	49,780	1,766	1,920	1,806
VA	39,430	46,710	49,690	1,950	1,973	1,928
W VA	1,800	1,700	1,700	1,440	1,600	1,200
WIS	4,200	3,450	4,700	1,993	2,002	2,010
U S	586,290	634,030	688,580	2,028	2,160	2,054
PRODUCTION						
	1987	1988	1989	1,000 POUNDS		
CONN	2,801	2,971	2,781			
FLA	13,804	17,152	18,200			
GA	72,160	85,880	87,000			
IND	11,070	10,945	13,237			
KY	304,845	355,024	398,835			
MD	13,338	11,970	10,625			
MASS	653	767	669			
MO	3,528	4,422	5,350			
N C	466,592	552,627	541,550			
OHIO	12,044	14,497	17,100			
PA	18,800	18,175	19,200			
S C	94,080	100,125	102,480			
TENN	87,291	93,142	89,889			
VA	76,900	92,177	95,778			
W VA	2,592	2,720	2,040			
WIS	8,370	6,906	9,445			
U S	1,188,868	1,369,500	1,414,179			

TOBACCO BY CLASS AND TYPE

CLASS AND TYPE	AREA HARVESTED		
	1987	1988	1989
	ACRES		
CLASS 1, FLUE-CURED			
TYPE 11, OLD AND			
MIDDLE BELTS			
N C	80,000	92,000	98,000
VA	28,000	35,000	37,000
U S	108,000	127,000	135,000
TYPE 12, EASTERN N C			
BELT			
N C	107,000	118,000	127,000
TYPE 13, N C BORDER &			
S C BELT			
N C	30,000	32,000	34,000
S C	42,000	45,000	48,000
U S	72,000	77,000	82,000
TYPE 14, GA-FLA BELT			
FLA	5,600	6,400	7,000
GA	32,000	38,000	40,000
U S	37,600	44,400	47,000
TOTAL 11-14	324,600	366,400	391,000
CLASS 2, FIRE-CURED			
TYPE 21, VA BELT			
VA	2,600	2,300	2,100
TYPE 22, EASTERN			
DISTRICT			
KY	2,700	2,600	3,400
TENN	5,500	5,600	6,700
U S	8,200	8,200	10,100
TYPE 23, WESTERN			
DISTRICT			
KY	2,600	2,600	3,200
TENN	460	440	530
U S	3,060	3,040	3,730
TOTAL 21-23	13,860	13,540	15,930
CLASS 3, AIR-CURED			
CLASS 3A, LIGHT			
AIR-CURED			
TYPE 31, BURLEY			
IND	5,400	5,500	6,100
KY	140,000	150,000	172,000
MO	1,800	2,200	2,500
N C	7,900	7,900	8,100
OHIO	7,300	7,800	9,000
TENN	43,000	42,000	42,000
VA	8,700	9,300	10,500
W VA	1,800	1,700	1,700
U S	215,900	226,400	251,900
TYPE 32, SOUTHERN MD			
BELT			
MD	11,700	9,000	8,500
PA	4,000	3,500	4,000
U S	15,700	12,500	12,500
TOTAL 31-32	231,600	238,900	264,400

CONTINUED

TOBACCO BY CLASS AND TYPE

CLASS AND TYPE	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	1,000 POUNDS					
CLASS 1, FLUE-CURED						
TYPE 11, OLD AND MIDDLE BELTS						
N C	1,970	2,095	1,935	157,600	192,740	189,630
VA	2,085	2,055	1,930	58,380	71,925	71,410
U S	2,000	2,084	1,934	215,980	264,665	261,040
TYPE 12, EASTERN N C BELT						
N C	2,170	2,325	2,090	232,190	274,350	265,430
TYPE 13, N C BORDER & S C BELT						
N C	2,090	2,220	2,115	62,700	71,040	71,910
S C	2,240	2,225	2,135	94,080	100,125	102,480
U S	2,178	2,223	2,127	156,780	171,165	174,390
TYPE 14, GA-FLA BELT						
FLA	2,465	2,680	2,600	13,804	17,152	18,200
GA	2,255	2,260	2,175	72,160	85,880	87,000
U S	2,286	2,321	2,238	85,964	103,032	105,200
TOTAL 11-14	2,129	2,219	2,062	690,914	813,212	806,060
CLASS 2, FIRE-CURED						
TYPE 21, VA BELT						
VA	1,000	1,270	1,300	2,600	2,920	2,730
TYPE 22, EASTERN DISTRICT						
KY	2,070	2,480	1,950	5,589	6,448	6,630
TENN	2,170	2,385	2,100	11,935	13,356	14,070
U S	2,137	2,415	2,050	17,524	19,804	20,700
TYPE 23, WESTERN DISTRICT						
KY	2,450	2,670	2,100	6,370	6,942	6,720
TENN	2,350	2,450	2,300	1,081	1,078	1,219
U S	2,435	2,638	2,128	7,451	8,020	7,939
TOTAL 21-23	1,990	2,271	1,969	27,575	30,744	31,369
CLASS 3, AIR-CURED						
CLASS 3A, LIGHT AIR-CURED						
TYPE 31, BURLEY						
IND	2,050	1,990	2,170	11,070	10,945	13,237
KY	2,050	2,235	2,200	287,000	335,250	378,400
MO	1,960	2,010	2,140	3,528	4,422	5,350
N C	1,785	1,835	1,800	14,102	14,497	14,580
OHIO	1,640	1,855	1,900	11,972	14,469	17,100
TENN	1,705	1,850	1,750	73,315	77,700	73,500
VA	1,815	1,850	2,050	15,790	17,205	21,525
W VA	1,440	1,600	1,200	2,592	2,720	2,040
U S	1,942	2,108	2,087	419,369	477,208	525,732
TYPE 32, SOUTHERN MD BELT						
MD	1,140	1,330	1,250	13,338	11,970	10,625
PA	1,850	1,850	1,800	7,400	6,475	7,200
U S	1,321	1,476	1,426	20,738	18,445	17,825
TOTAL 31-32	1,900	2,075	2,056	440,107	495,653	543,557

CONTINUED

TOBACCO BY CLASS AND TYPE - CONTINUED

CLASS AND TYPE	AREA HARVESTED		
	1987	1988	1989
	ACRES		
CLASS 3, AIR-CURED			
CLASS 3B, DARK			
AIR-CURED			
TYPE 35, ONE SUCKER			
BELT			
KY	1,900	1,850	2,300
TENN	480	480	550
U S	2,380	2,330	2,850
TYPE 36, GREEN RIVER			
BELT			
KY	1,100	950	1,300
TYPE 37, VA SUN-CURED			
BELT			
VA	130	110	90
TOTAL 35-37	3,610	3,390	4,240
CLASS 4, CIGAR FILLER			
TYPE 41, PA SEEDLEAF			
PA	6,000	6,000	6,000
TYPE 42-44 OHIO-MIAMI			
VALLEY TYPES			
OHIO	50	20	2/
TOTAL 41-44	6,050	6,020	6,000
CLASS 5, CIGAR BINDER			
CLASS 5A, CONN VALLEY			
BINDER			
TYPE 51, CONN VALLEY			
BROADLEAF			
CONN	980	850	730
MASS	110	100	100
TOTAL 51-52	1,090	950	830
CLASS 5B, WIS BINDER			
TYPE 54, SOUTHERN WIS			
WIS	2,700	2,400	3,000
TYPE 55, NORTHERN WIS			
WIS	1,500	1,050	1,700
TOTAL 54-55	4,200	3,450	4,700
TOTAL 51-55	5,290	4,400	5,530
CLASS 6, CIGAR WRAPPER			
TYPE 61, CONN VALLEY			
SHADE-GROWN			
CONN	870	960	1,100
MASS	410	420	380
U S	1,280	1,380	1,480
ALL CIGAR TYPES			
TOTAL 41-61	12,620	11,800	13,010
ALL TOBACCO	586,290	634,030	688,580

SEE FOOTNOTES ON PAGE A-62.

CONTINUED

TOBACCO BY CLASS AND TYPE - CONTINUED

CLASS AND TYPE	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	1,000 POUNDS					
CLASS 3, AIR-CURED						
CLASS 3B, DARK						
AIR-CURED						
TYPE 35, ONE SUCKER						
BELT						
KY	1,940	2,280	1,950	3,686	4,218	4,485
TENN	2,000	2,100	2,000	960	1,008	1,100
U S	1,952	2,243	1,960	4,646	5,226	5,585
TYPE 36, GREEN RIVER						
BELT						
KY	2,000	2,280	2,000	2,200	2,166	2,600
TYPE 37, VA SUN-CURED						
BELT						
VA	1,000	1,155	1,255	130	127	113
TOTAL 35-37	1,932	2,218	1,957	6,976	7,519	8,298
CLASS 4, CIGAR FILLER						
TYPE 41, PA SEEDLEAF						
PA	1,900	1,950	2,000	11,400	11,700	12,000
TYPE 42-44 OHIO-MIAMI						
VALLEY TYPES						
OHIO 1/	1,440	1,400	2/	72	28	2/
TOTAL 41-44 1/	1,896	1,948	2,000	11,472	11,728	12,000
CLASS 5, CIGAR BINDER						
CLASS 5A, CONN VALLEY						
BINDER						
TYPE 51, CONN VALLEY						
BROADLEAF						
CONN	1,700	1,700	1,700	1,666	1,445	1,241
MASS	1,800	1,850	1,750	198	185	175
TOTAL 51-52	1,710	1,716	1,706	1,864	1,630	1,416
CLASS 5B, WIS BINDER						
TYPE 54, SOUTHERN WIS						
WIS	2,100	2,090	2,100	5,670	5,016	6,300
TYPE 55, NORTHERN WIS						
WIS	1,800	1,800	1,850	2,700	1,890	3,145
TOTAL 54-55	1,993	2,002	2,010	8,370	6,906	9,445
TOTAL 51-55	1,935	1,940	1,964	10,234	8,536	10,861
CLASS 6, CIGAR WRAPPER						
TYPE 61, CONN VALLEY						
SHADE-GROWN						
CONN	1,305	1,590	1,400	1,135	1,526	1,540
MASS	1,110	1,385	1,300	455	582	494
U S	1,242	1,528	1,374	1,590	2,108	2,034
ALL CIGAR TYPES						
TOTAL 41-61	1,846	1,896	1,914	23,296	22,372	24,895
ALL TOBACCO	2,028	2,160	2,054	1,188,868	1,369,500	1,414,179

1/ INCLUDES BINDER TYPES GROWN IN OHIO. 2/ ESTIMATES DISCONTINUED IN 1989 BECAUSE OF LIMITED ACREAGE.

SUGARBEETS 1/

STATE	AREA PLANTED			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
1,000 ACRES						
CALIF	219.0	215.0	185.0	216.0	212.0	180.0
COLO	37.4	39.1	40.6	37.0	38.6	40.0
IDAHO	163.0	168.0	179.0	162.0	166.0	177.0
MICH	144.0	152.0	154.0	142.0	145.0	150.0
MINN	311.0	339.0	342.0	310.0	334.0	341.0
MONT	49.2	49.6	52.7	48.9	48.9	51.9
NEBR	61.6	63.9	70.4	60.2	62.2	62.4
N MEX	.6	.7	2/	.2	.7	2/
N DAK	163.3	177.8	180.2	161.3	175.5	180.1
OHIO	16.8	17.3	13.4	16.2	14.7	11.7
OREG	13.9	14.3	15.2	13.7	14.1	15.0
TEX	32.8	34.0	36.6	31.5	33.0	35.3
WYO	54.1	56.5	61.8	53.4	56.0	59.3
OTHER 3/:			1.9			1.6
U S	1,266.7	1,327.2	1,332.8	1,252.4	1,300.7	1,305.3
YIELD : PRODUCTION						
	1987	1988	1989	1987	1988	1989
TONS : 1,000 TONS						
CALIF	28.2	25.0	27.5	6,091	5,300	4,950
COLO	21.7	22.8	22.8	803	880	912
IDAHO	26.4	24.6	23.0	4,277	4,084	4,071
MICH	20.5	16.5	17.5	2,911	2,393	2,625
MINN	20.0	14.2	16.0	6,200	4,743	5,456
MONT	22.2	21.1	19.9	1,086	1,032	1,033
NEBR	18.3	21.2	18.7	1,102	1,319	1,167
N MEX	10.0	12.9	2/	2	9	2/
N DAK	19.6	14.7	15.7	3,161	2,580	2,828
OHIO	16.6	15.9	16.5	269	234	193
OREG	30.8	26.7	26.1	422	376	392
TEX	19.7	21.9	21.0	621	723	743
WYO	21.1	20.3	19.2	1,127	1,137	1,139
OTHER 3/:			27.5			44
U S	22.4	19.1	19.6	28,072	24,810	25,553

1/ RELATES TO YEAR OF INTENDED HARVEST EXCEPT FOR OVERWINTERED SPRING PLANTED BEETS IN CALIF. 2/ INCLUDED IN OTHER STATES TO AVOID DISCLOSURE OF INDIVIDUAL OPERATIONS. 3/ INCLUDES NM AND WA.

SUGARCANE

STATE	AREA HARVESTED			YIELD 1/		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES			TONS		
FOR SUGAR						
FLA	402.0	404.0	412.0	32.3	31.6	31.0
HAW	79.5	78.9	73.0	100.8	96.4	95.9
LA	263.0	279.0	290.0	22.7	25.3	26.0
TEX	33.8	31.7	33.8	31.1	33.3	26.1
U S	778.3	793.6	808.8	36.0	35.9	34.9
FOR SEED:						
FLA	15.0	17.0	15.0	31.9	31.6	32.0
HAW	7.0	7.2	7.0	25.8	27.5	28.6
LA	22.0	26.0	25.0	22.7	25.3	26.0
TEX	1.3	1.5	1.9	25.4	20.7	24.2
U S	45.3	51.7	48.9	26.3	27.6	28.1
FOR SUGAR & SEED						
FLA	417.0	421.0	427.0	32.3	31.6	31.0
HAW	86.5	86.1	80.0	94.7	90.6	90.0
LA	285.0	305.0	315.0	22.7	25.3	26.0
TEX	35.1	33.2	35.7	30.9	32.8	26.0
U S	823.6	845.3	857.7	35.5	35.4	34.5
	PRODUCTION 1/					
	1987		1988			1989
	1,000 TONS					
FOR SUGAR						
FLA	12,990		12,766			12,772
HAW	8,014		7,606			7,000
LA	5,970		7,050			7,540
TEX	1,052		1,057			882
U S	28,026		28,479			28,194
FOR SEED:						
FLA	479		538			480
HAW	181		198			200
LA	499		658			650
TEX	33		31			46
U S	1,192		1,425			1,376
FOR SUGAR & SEED						
FLA	13,469		13,304			13,252
HAW	8,195		7,804			7,200
LA	6,469		7,708			8,190
TEX	1,085		1,088			928
U S	29,218		29,904			29,570

1/ NET TONS.

SUGAR AND MOLASSES PRODUCTION

SOURCE AND STATE	SUGAR						MOLASSES 1/		
	RAW VALUE			REFINED BASIS					
	1987	1988	1989 2/	1987	1988	1989 2/	1987	1988	1989 2/
	1,000 TONS						1,000 GALLONS		
SUGAR-CANE									
FLA	1,517	1,566	1,380	1,418	1,464	1,290	90,145	92,246	89,000
LA	731	797	830	683	745	776	37,450	43,475	44,000
TEX	106	107	63	99	100	59	8,901	9,992	9,887
MAIN-LAND									
TOTAL	2,354	2,470	2,273	2,200	2,309	2,125	136,496	145,713	142,887
HAW	979	928	860	915	867	804	3/49,000	3/47,420	3/40,000
U S	3,333	3,398	3,133	3,115	3,176	2,929	185,496	193,133	182,887
SUGAR-BEETS									
U S	3,998	3,507	3,486	3,736	3,278	3,258			
CANE & BEETS									
U S	7,331	6,905	6,619	6,851	6,454	6,187			

1/ BLACKSTRAP (80 DEGREE BRIX) INCLUDES HIGH-TEST MOLASSES FROM FROZEN CANE AND EDIBLE MOLASSES. LOUISIANA EDIBLE MOLASSES TOTALED 1,630 THOUSAND GALLONS IN 1987 AND 1,925 THOUSAND GALLONS IN 1988. 1989 WILL BE AVAILABLE IN JUNE.
 2/ PRELIMINARY. 3/ 85 DEGREE BRIX.

COFFEE

STATE	AREA HARVESTED			YIELD			PRODUCTION 1/		
	1987-88	1988-89	1989-90	1987-88	1988-89	1989-90	1987-88	1988-89	1989-90
	ACRES			POUNDS			1,000 POUNDS		
HAW	2,050	2,150	2,300	878	930	957	1,800	2,000	2,200

1/ PARCHMENT BASIS.

TARO

STATE	AREA HARVESTED 1/			YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
	ACRES			POUNDS			1,000 POUNDS		
HAW	400	420	430	15,800	16,200	15,100	6,300	6,800	6,500

1/ AVERAGE DURING YEAR.

MINT OIL

STATE	AREA HARVESTED			YIELD		
	1987	1988	1989	1987	1988	1989
	1,000 ACRES			POUNDS		
PEPPERMINT						
IDAHO	8.5	11.9	13.0	70	68	75
IND	6.9	7.2	15.0	41	27	40
OREG	35.5	40.0	46.5	69	71	67
WASH	11.5	16.5	17.3	87	86	91
WIS	4.6	4.9	9.0	36	20	43
U S	67.0	80.5	100.8	67	67	66
SPEARMINT						
IDAHO	2.6	1.9	2.1	72	87	72
IND	3.9	4.0	4.4	37	20	38
MICH	1.8	1.5	1.9	29	24	32
OREG	1.5	1.5	1.5	75	74	70
WASH	10.2	9.7	10.6	138	130	104
WIS	4.0	4.0	5.9	39	23	44
U S	24.0	22.6	26.4	86	77	70
	PRODUCTION					
	1987		1988		1989	
	1,000 POUNDS					
PEPPERMINT						
IDAHO	595		809		975	
IND	283		194		600	
OREG	2,450		2,840		3,116	
WASH	1,001		1,419		1,574	
WIS	166		98		387	
U S	4,495		5,360		6,652	
SPEARMINT						
IDAHO	187		165		151	
IND	144		80		167	
MICH	52		36		61	
OREG	113		111		105	
WASH	1,408		1,261		1,102	
WIS	156		92		260	
U S	2,060		1,745		1,846	

HOPS BY STATE AND VARIETY 1/

STATE AND VARIETY	AREA HARVESTED			YIELD		
	1987	1988	1989	1987	1988	1989
	ACRES			POUNDS		
CALIFORNIA 2/						
IDAHO						
AQUILA			110			1,660
BANNER			110			2,130
CHINOOK	180	220	220	1,530	1,540	1,770
CLUSTER	510	490	490	1,890	1,830	2,010
EROICA	440	430	350	1,770	1,610	1,640
GELENA	480	520	540	2,040	1,830	1,580
WILLAMETTE	50	130		740	480	
OTHER VARIETIES	540	1,010	980	1,510	970	890
TOTAL	2,200	2,800	2,800	1,750	1,400	1,461
OREGON						
FUGGLES	920	850	801	630	1,090	1,200
GELENA	210	150	149	1,310	1,880	1,780
NUGGET	1,450	1,470	1,278	2,030	2,040	2,030
PERLE	210	330	285	740	1,120	1,530
TETTANG		470	531		1,100	1,080
WILLAMETTE	2,695	3,700	3,792	1,520	1,340	1,590
OTHER VARIETIES	515	530	576	1,470	1,840	1,740
TOTAL	6,000	7,500	7,412	1,470	1,470	1,600
WASHINGTON						
AQUILA		320	356		1,520	2,320
BANNER		340	356		1,650	2,380
CASCADE	1,650	920	1,297	1,920	1,990	1,980
CHINOOK	800	1,000	1,269	1,690	1,990	1,880
CLUSTER	9,900	7,950	6,374	1,960	2,030	2,040
EROICA	730	640	472	2,020	1,940	1,990
GELENA	4,050	4,900	5,735	1,870	1,890	1,920
NUGGET	1,400	1,800	2,241	1,870	1,620	1,940
OLYMPIC	230	270	279	2,180	2,020	1,770
PERLE	200	580	779	1,130	1,040	1,180
TETTANG	650	2,200	2,410	830	890	1,040
WILLAMETTE		2,050	2,507		1,020	1,310
OTHER VARIETIES	490	130	261	1,150	1,350	940
TOTAL	20,100	23,100	24,336	1,860	1,721	1,782
U S	28,300	33,400	34,548	1,770	1,638	1,717

1/ ESTIMATES INCLUDE HOPS LOST BY FIRE.

2/ COMBINED WITH WASHINGTON TO AVOID DISCLOSURE OF INDIVIDUAL OPERATIONS.

HOPS BY STATE AND VARIETY 1/

STATE AND VARIETY	PRODUCTION		
	1987	1988	1989
	1,000 POUNDS		
CALIFORNIA 2/			
IDAHO			
AQUILA			182.6
BANNER			234.3
CHINOOK	275.4	338.8	389.4
CLUSTER	963.9	896.7	984.9
EROICA	778.8	692.3	574.0
GELENA	979.2	951.6	853.2
WILLAMETTE	37.0	62.4	
OTHER VARIETIES	815.7	978.2	872.2
TOTAL	3,850.0	3,920.0	4,090.6
OREGON			
FUGGLES	581.6	926.5	961.2
GELENA	275.0	282.0	265.2
NUGGET	2,940.0	2,998.8	2,594.3
PERLE	155.0	369.6	436.1
TETTNANG		517.0	573.5
WILLAMETTE	4,090.0	4,958.0	6,029.3
OTHER VARIETIES	758.4	973.1	999.4
TOTAL	8,800.0	11,025.0	11,859.0
WASHINGTON			
AQUILA		487.0	825.9
BANNER		561.0	847.3
CASCADE	3,168.0	1,831.0	2,568.0
CHINOOK	1,352.0	1,990.0	2,385.7
CLUSTER	19,382.0	16,100.0	13,003.0
EROICA	1,475.0	1,242.0	939.3
GELENA	7,574.0	9,252.0	11,011.2
NUGGET	2,618.0	2,916.0	4,347.5
OLYMPIC	501.0	545.0	493.8
PERLE	226.0	603.0	919.2
TETTNANG	540.0	1,958.0	2,506.4
WILLAMETTE		2,091.0	3,284.2
OTHER VARIETIES	562.0	175.0	245.3
TOTAL	37,398.0	39,751.0	43,376.8
U S	50,048.0	54,696.0	59,326.4

1/ ESTIMATES INCLUDE HOPS LOST BY FIRE.

2/ COMBINED WITH WASHINGTON TO AVOID DISCLOSURE OF INDIVIDUAL OPERATIONS.

ALASKA

CROP	AREA PLANTED FOR ALL PURPOSES :			AREA HARVESTED		
	1987	1988	1989	1987	1988	1989
	ACRES					
OATS	5,700	2,200	1,400	800	600	700
BARLEY	6,000	5,300	5,100	5,300	4,700	4,700
ALL SILAGE				5,800	3,400	2,400
ALL HAY				16,500	15,900	12,700
POTATOES	850	850	850	750	800	840
	YIELD			PRODUCTION		
	1987	1988	1989	1987	1988	1989
	1,000					
OATS - BU	51.0	61.0	79.5	41.0	36.6	55.7
BARLEY - BU	41.0	48.5	53.0	220.0	228.0	249.0
ALL SILAGE-TON:	5.09	3.76	3.63	29.5	12.8	8.7
ALL HAY - TON :	1.23	1.55	1.30	20.3	24.7	16.5
POTATOES - CWT:	197	225	233	148.0	204.0	196.0

1989 CROP SEASONS

WINTER WHEAT:

Late in August, winter wheat seeding was underway in Arkansas, Colorado, Texas, and Washington. Insufficient soil moisture delayed seeding in the central and northern Great Plains early in September. By the end of the month, seeding was near or ahead of normal in most areas. By October 2, seeding was 53 percent (%) finished, 11 percentage points behind 1987 but 2 points ahead of the 5-year average. Nebraska's wheat was 85% seeded, 6 points behind normal. Sixty percent of the crop was emerged, 10 points behind normal. Emergence in early September was slowed by lack of rain. Kansas wheat seeding was progressing at a normal pace and was 55% finished. Twenty percent of the crop was emerged, 5 points behind normal. Rain in mid-September improved seeding and germination conditions. Seeding in Oklahoma was 45% finished, 5 points ahead of normal. Crop emergence, at 20%, was 5 points ahead of the average.

Dry weather during October allowed winter wheat seeding to progress at a normal pace. By October 9, seeding was 8 points ahead of normal. By month's end, progress reached 92% completion, 7 points ahead of normal. Dry soil conditions slowed seeding and germination in the Great Plains and the Pacific Northwest. By mid-month, seeding was complete in Nebraska and nearly complete in Colorado and South Dakota. Emergence and early growth were good in most areas. At the end of October, seeding was over 90% complete in 14 of the 20 major producing States. On October 30th, 81% of the crop was emerged, 2 points behind 1987 but 11 points ahead of the 70% average. Warm, dry weather contributed to insect problems in the central and southern Great Plains and the Pacific Northwest. The crop was mostly good to fair except in Missouri, Montana, Oregon, South Dakota, and Texas where it was mostly fair to good. By month's end Kansas' seeding was 98% complete, 8 points ahead of normal. Emergence and early growth were good. Producers utilized some early seeded fields for grazing. Oklahoma's seeding was 15 points ahead of the 80% average. Seeding was complete in Colorado, Montana, Nebraska, and South Dakota. Russian wheat aphids continued to be a problem in Idaho and Oregon. Cooler weather late in October reduced aphid activity in Washington. Texas Blacklands producers were spraying for greenbugs in newly emerged fields. Seeding was 11 points and 6 points behind normal in California and Georgia, respectively.

At the beginning of November, seeding was nearly complete except in the Southeast and California. Condition was mostly good to fair. Lack of moisture slowed crop development in much of the Great Plains and Pacific Northwest. Russian wheat aphids were a problem in the Pacific Northwest. By midmonth, seeding was essentially complete except in the Southeast and California. Condition remained good to fair except in the Pacific Northwest and some Great Plains States, where it was mostly fair to good. Ninety-two percent of the crop was emerged, 9 points ahead of normal. Warm weather increased greenbug populations in portions of Kansas and Texas. Cool weather slowed Russian aphids activity in the Pacific Northwest. Inadequate moisture continued to limit growth in most of the Great Plains. Strong winds damaged some of the crop in Colorado. Rain and mild weather improved condition in the Corn Belt. Near the end of the month, rain and snow provided needed moisture in portions of the Great Plains and Pacific Northwest. Greenbugs continued to be a problem in Kansas and Texas. In Texas, central and southern areas remained dry and showed little or no growth. Continued rainfall and mild weather benefited the crop in the Corn Belt.

Lack of moisture stressed winter wheat in the central and southern Great Plains during December. At mid-month, some reseeding occurred in Texas. Greenbug infestation was a continuing problem. By the end of the month, greenbugs were a problem as far north as Nebraska. Moisture improved conditions in eastern Kansas and the Texas Blacklands late in December.

Early in the month, producers were concerned about lack of snow cover in the northern Great Plains and the Corn Belt. By month's end, snow cover was improved but still limited in some areas. Despite limited snow cover in Colorado and Montana, wind damage was light. Russian wheat aphids were a problem in Oregon and Washington during most of the month. Storms slowed seeding in California during the latter half of December. Winter wheat was mostly good to fair in the Southeast. Seeding was nearly complete by month's end.

Lack of moisture continued to stress winter wheat in the central and southern Great Plains during most of January. In the second week of the month, rain brought some relief to winter wheat in portions of eastern Texas. Snowfall provided needed moisture and protection in portions of central Oklahoma. In the third week of January, rain improved winter wheat conditions in central and eastern Texas, but the Plains and Cross Timbers area remained dry. In the last week of the month, rain brought some relief in portions of the central and southern Great Plains but additional moisture was needed. Greenbug damage was a continuing problem due to above-normal temperatures. In the northern Great Plains, snow cover was mostly adequate early in the month. By month's end, snow cover was needed in all areas except in Montana and North Dakota, where it was still mostly adequate. Winter wheat was mostly good to fair in the Corn Belt but lacked snow cover. In the Delta and Southeast, winter wheat was mostly good. Seeding was complete by mid-month in Georgia. Seeding continued in California during January. In Arizona, rain slowed seeding early in the month but was nearly complete by month's end. The emerged crop condition was good.

Early in February, extremely cold temperatures damaged winter wheat in portions of the central and southern Great Plains. Winter wheat was mostly poor to fair in Kansas. About mid-month, rain improved conditions in portions of the central and southern Great Plains. Lack of moisture continued to stress winter wheat in the western areas of Kansas and Oklahoma, and the High Plains area of Texas. In the southern Great Plains, below-normal temperatures slowed winter wheat growth but reduced insect activity. In the northern Great Plains, snow cover provided mostly adequate protection during periods of cold temperatures. Winter wheat was mostly fair in Montana and Nebraska. Wind damage remained light in Colorado and Montana. Early in February, cold temperatures and limited snow cover damaged winter wheat in portions of the Pacific Northwest. Russian wheat aphids activity was reduced. Winter wheat was mostly good to fair in the Corn Belt, Southeast, and Delta during February. Flooding was a problem in low lying areas of western Kentucky and Tennessee during the third week of the month. Some freeze damage occurred in portions of the Delta and Southeast during the last week of the February.

Early in March, warmer temperatures improved winter wheat growth in the central and southern Great Plains. Winter wheat was mostly very poor to poor in Kansas. Moisture was needed. In Oklahoma, winter wheat was mostly fair to good. About mid-month, winter wheat began heading in the Coastal Bend areas of Texas. Near the end of March, rain improved winter wheat condition in the central and southern Great Plains. Earlier freeze damage became evident as fields broke dormancy in Kansas. Winter wheat was mostly good to fair in Oklahoma and fair to poor in Texas. Snow cover was mostly adequate in the northern Great Plains early in the month. Winter wheat was mostly fair to good. Near the end of March, producers began reseeding freeze damaged fields in portions of Oregon and Washington. Winter wheat was mostly good to fair in Idaho, Montana, and South Dakota and fair to good in Colorado, Nebraska, and Wyoming. During March, winter wheat was mostly good in the Corn Belt and fair to good in the Delta and Southeast. At the end of March, powdery mildew and rust were problems in portions of the Delta.

At the beginning of April, winter wheat was mostly fair. Condition deteriorated in the central and southern Great Plains and Pacific Northwest as fields broke dormancy and winterkill became more evident.

Lack of moisture stressed winter wheat in the central and southern Great Plains during the month. Near the end of April, rain relieved moisture stress in the northern Great Plains. By the end of April, winter wheat was mostly fair to poor in the 20 major producing States. Winter wheat continued mostly fair to poor during May. Inadequate soil moisture stressed winter wheat in the central and southern Great Plains. About mid-month, rain and cool temperatures reduced moisture stress in Oklahoma. Late in May, rain improved crop conditions in Kansas, but wheat was still mostly very poor to poor. At the end of May, harvest was underway in California, Georgia, Oklahoma, and Texas. Heading was 74% complete, 3 points ahead of normal. Winter wheat remained mostly fair to poor during June. By mid-June, harvest was underway in 8 of the 20 major producing States. Rain delayed the start of harvest in Kansas. Rain hampered harvest during the month in the central and southern Great Plains, Delta, and the Southeast. Near the end of June, harvest began in the western Corn Belt. In early July, winter wheat was still mostly fair to poor in the major producing States. Harvest advanced slower than normal during the month. Rain slowed harvest in the central Great Plains during mid-July. By July 30, harvest was 85% complete, 2 points behind normal. Harvest was complete or nearly complete in 13 of the 20 major producing States. Harvest was underway in the Pacific Northwest but lagged behind normal. Harvest also lagged behind normal in Michigan. At the beginning of August, winter wheat harvest was complete or nearly complete except in the Pacific Northwest, where it lagged behind normal. By August 27, winter wheat harvest was 98% complete. Harvest continued to lag behind normal in Montana and Washington but was complete in early September.

OTHER CROPS:

Cotton harvest was virtually complete early in January. Land preparation for the 1989 cotton crop was active in Arizona and California. In mid-February, snow and rain slowed land preparation in California. In the Corn Belt, weather conditions limited fieldwork to spreading fertilizer during most of February. Land preparation for spring planting was active in the Southeast but was slowed by rain in the Delta. During the last half of February, rain slowed fieldwork in the East. Corn planting began mid-month in Florida, Georgia, and Texas. Tobacco plant bed preparation and planting were active in the Southeast. Rain slowed fieldwork in the Delta and Southeast during most of March. Snow and muddy field conditions limited fieldwork to spreading fertilizer in the northern Great Plains and Corn Belt early in the month. By the end of March, spring small grain seeding and land preparation for spring planting were underway in the Great Plains and western Corn Belt. Cotton planting was underway in Texas in early March. By the end of March, planting was 9% complete, 1 point ahead of the normal. Planting began in Arizona and California about mid-month. By the end of the month, planting was 35% complete in Arizona. As March began, corn planting was underway in Arizona, Florida, and Texas and just beginning in Mississippi. By mid-month, corn planting was active in the Delta and Southeast as weather permitted. Planting lagged behind normal in portions of the Delta and Southeast at the end of the month. Planting began in Kansas the last week of March. As March began, sorghum planting was underway in Texas. By the end of the month, planting was 42% finished, 3 points behind normal. Planting was just beginning in Alabama. Rice seeding began in Louisiana, Mississippi, and Texas about mid-month. Rain slowed seeding in Louisiana and Mississippi. Tobacco bed preparation and planting were active during March as weather permitted. Tobacco transplanting was underway by mid-month in Georgia and Florida.

Rain slowed fieldwork in the eastern Corn Belt, Delta, and Southeast during most of April. During the last week of April, needed rain improved soil moisture conditions in the western Corn Belt and northern Great Plains.

The central and southern Great Plains remained dry. Corn planting lagged slightly behind normal during April. By the third week of April, planting was underway in all of the 17 major producing States except Michigan and South Dakota. Rain slowed planting in the Delta and Southeast in early April. Planting progress was slow in the eastern Corn Belt and Southeast late in the month. By month's end, planting was 25% complete, 3 points behind normal. During the last week of April, producers planted over one-third of their acreage in Illinois, Kansas, and Missouri. Planting progress was 13 points and 22 points behind normal in Indiana and Ohio, respectively. In North Carolina, planting advanced 25 points during the last week of the month but was still 29 points behind normal. Cotton planting progressed at a near normal pace during April. Lack of moisture slowed growth in the Rio Grande Valley of Texas. Rain slowed planting in the Delta and Southeast. At mid-month, planting was more than 10 points behind normal in Alabama, Georgia, North Carolina and South Carolina. By April 30, planting was 33% complete, 2 points ahead of normal. Rain continued to slow planting in the Southeast but it was near or ahead of normal elsewhere. Planting was 24 points and 36 points behind normal in North Carolina and South Carolina, respectively. By the end of April, sorghum planting was 20% complete, 1 point ahead of normal. Planting was underway in all major producing States except Kansas and South Dakota. Rice seeding was 57% complete, 5 points ahead of normal by the end of April. Twenty-six percent of the crop was emerged, slightly behind normal. Seeding progress was normal or ahead of normal except in Louisiana, where seeding was 8 points behind normal. Soybean planting was just getting started as the month ended. Spring wheat seeding advanced slowly during April. By mid-month, seeding was more than 10 points behind normal in 4 of the 5 major producing States. By the end of April, seeding was 26% complete, 22 points behind normal. Seeding progress was more than 20 points behind normal in Minnesota, Montana, and North Dakota. Progress was near normal in Idaho and South Dakota.

Rain continued to slow fieldwork in the eastern Corn Belt and portions of the Delta and Southeast during May. Soil moisture was adequate to surplus in those areas. In the central and southern Great Plains, soil moisture was mostly short to adequate in early May. During the last half of the month, rain improved soil moisture in the central and southern Great Plains and the western Corn Belt. In the northern Great Plains and the West, soil moisture was mostly adequate to short. At the beginning of May, corn planting was 25% complete, 3 points behind normal. Rain slowed planting in the eastern Corn Belt and portions of the Delta and Southeast. By the end of May, planting was 89% complete, 4 points behind normal. Planting was 20 points and 62 points behind normal in Indiana and Ohio, respectively. Planting was complete in Georgia, Iowa, Missouri, and Texas and nearly complete in Illinois, Kansas, Michigan, and Nebraska. Cotton planting lagged behind normal in the Delta and Southeast during May. About mid-month, cool temperatures slowed germination and growth in the Delta. Hail and heavy rains forced some replanting. By the end of May, planting was 73% complete, slightly behind the 76% average. Planting was complete in Arizona, California, New Mexico, and Tennessee and nearly complete in Alabama and Missouri. Soybean planting was underway in all major producing States except Minnesota and North Carolina by the end of the first week in May. By the end of May, planting was 55% complete, 3 points behind normal. Planting progress was near or ahead of normal in the major producing States except in Indiana, Louisiana, Mississippi, North Carolina, and Ohio. Rain slowed planting in the eastern Corn Belt and portions of the Delta and Southeast during the month. Planting was 30 points and 58 points behind normal in Indiana and Ohio, respectively. Sorghum planting was underway in all 11 major producing States by the end of the first week in May. Dry soil conditions slowed planting in the central and southern Great Plains in early May. Rain slowed planting in the Delta during the month. By the end of May, planting was 52% complete, 3 points ahead of normal. Rice seeding was 95% complete, equal to the average by the end of May. Seeding was complete in Texas by mid-month.

Seeding lagged behind normal in Louisiana and Mississippi. Spring wheat seeding lagged behind normal in 4 of the 5 major producing States during the first half of May. By the end of May, seeding was ahead of normal except in Montana. Condition of the crop was mostly good to fair.

Early in June, rain slowed fieldwork in the Corn Belt and improved soil moisture conditions in the central and southern Great Plains. Rain slowed corn and soybean planting in the eastern Corn Belt during the entire month. Planting lagged behind normal in the Delta and Southeast late in the month. By the end of June, soil moisture was surplus to adequate in the Delta and the East. Soil moisture was mostly adequate to short in the western Corn Belt, Great Plains, and the West. At the beginning of June, corn planting was nearly complete except in the eastern Corn Belt. Rain continued to slow planting in Indiana, Ohio, and Pennsylvania. By mid-month, planting was still more than 30 points behind normal in Ohio. During the third week of the month, light frost occurred in Nebraska but caused no serious damage. By the end of June, corn was mostly good to fair in the major producing States, and silking had begun in Georgia, North Carolina, and Texas. Rain hampered soybean planting in the eastern Corn Belt during June. By mid-month, rain also slowed planting in the Delta and Southeast. Near the end of June, planting was behind normal in the eastern Corn Belt, Delta, and Southeast but was nearly complete in the western Corn Belt. Soybeans were mostly good to fair in the 19 major producing States. At the beginning of June, cotton planting was nearly complete except in Oklahoma and Texas. Heavy rains forced producers to replant some acreage in Mississippi, Oklahoma, and Texas. In mid-June, the percentage of acreage in the squaring stage lagged behind normal in the Delta and Southeast. By the end of June, squaring was more than 30 points behind normal in Arkansas, Mississippi, North Carolina, and South Carolina. Cotton was mostly fair in the 14 major producing States. By the end of June, sorghum planting was nearly complete except in Oklahoma and Kansas. By mid-month, harvest was underway in the Coastal Bend area of Texas. Heavy rains forced some replanting in Kansas. At the end of June, sorghum was mostly good to fair in the 11 major producing States. Rice was mostly good to fair during June. By the end of the month, heading had begun in Louisiana and Texas.

Early in July, hot, dry weather stressed crops in the northern Great Plains and western Corn Belt. Soil moisture was mostly short to adequate. About mid-July, rain improved conditions in the western Corn Belt, but additional rain was still needed. The last week of July, rain again improved soil moisture in the western Corn Belt and also in the central and southern Great Plains. At month's end, soil moisture was mostly adequate to short in those areas. Rain slowed crop development and fieldwork in the Delta and much of the East during the entire month. Soil moisture was mostly adequate to surplus. The West remained seasonably dry, with soil moisture supplies mostly short to adequate. Corn was mostly good to fair during July. Crop development lagged behind normal during the month. In middle to late July, rain improved crop condition in the western Corn Belt. By July 30, silking was 74% finished, 8 points behind normal. Fourteen percent of the crop had ears in the dough stage, 11 points behind normal. Harvest was underway in Georgia, Texas, and portions of the Delta. Soybeans were mostly good to fair during July. Rain hampered planting and crop development in the Delta during the month. Excess moisture stressed soybeans in Arkansas, Louisiana, and Mississippi, where crop condition was mostly fair to poor. Flooding forced replanting in those areas early in July. At month's end, soybeans were mostly good in Illinois and Indiana and good to fair in Iowa. In the 19 major producing States, crop development lagged behind normal, especially in Ohio, where the percentages of acreage blooming and setting pods were both more than 30 points behind normal. By July 30 in the major producing States, 66% of the acreage had bloomed and 29% was setting pods. Normally, 73% would be blooming and 37% would be setting pods.

Sorghum was mostly good to fair in July. By July 30, 33% of the acreage was headed, 9 points behind normal. Seventeen percent of the acreage had turned color, equal to the average. Sorghum was good to excellent in Kansas and good to fair in Nebraska and Texas. Cotton was mostly fair to good during July. Crop development lagged behind normal in the Delta and Southeast during the month. Excessive moisture lowered crop condition in portions of the Delta. By the end of July, the percentage of cotton acres setting bolls lagged more than 20 points behind normal in Louisiana and Mississippi. In the 14 major producing States, 88% of the acreage was squaring, 6 points behind normal at month's end. Fifty-seven percent of the acreage was setting bolls, 9 points behind normal. Harvest was underway in Texas. Bolls were opening in southern California. In Arizona, cotton was mostly good to excellent. Rain, hail, and wind damaged some fields the last week of the month in southwestern Arizona.

As August began, rain was needed in the western Corn Belt and the central and northern Great Plains, where soil moisture was mostly short to adequate. In mid-to-late August, rain improved crop conditions in the central Great Plains and western Corn Belt, but the northern Great Plains remained dry. Early in August, soil moisture was mostly adequate to surplus in the Delta. Excessive moisture hampered crop development. By the end of August, lack of moisture stressed crops in the Delta. In the West, soil moisture remained mostly short to adequate during August, but rain did improve pasture and range growth in a portion of the Pacific Northwest the last week of the month. Soil moisture was mostly adequate in the East during August. Corn was mostly good to fair during August. Lack of rain stressed corn in the central and northern Great Plains and western Corn Belt early in August. Late in August, rain relieved some stress in the central Great Plains and western Corn Belt. Crop development lagged behind normal in most of the major producing States during the entire month. By August 27, 41% of the acreage was in the dent stage or beyond, 15 points behind normal. In Ohio, only 11% of the acreage was dented, 43 points behind the 54% average. Harvest was underway in Georgia and Texas. Soybeans were mostly good to fair during August. Lack of rain stressed soybeans in the central and northern Great Plains early in the month, while excess moisture stressed the crop in portions of the Delta. By the end of August, rain improved conditions in the Corn Belt and central Great Plains, but lack of moisture lowered conditions in the Delta. Crop development lagged somewhat behind normal in most of the major producing States during the month. By August 27, 85% of the acreage was setting pods, 4 points behind normal. In Ohio, the percentage of acres setting pods was 26 points behind normal. Cotton was mostly fair to good during August. As the month began, harvest was underway in Texas. Excess moisture and cool temperatures slowed crop development in the Delta and the southern Great Plains during the first half of the month. At month's end, development was still behind normal, especially in the Delta. By August 27, 13% of the acreage was in the boll opening stage, 9 points behind normal, in the 14 major producing States. Drier weather had improved crop condition in the Delta, but the percentage of acres opening bolls was still 20 or more points behind normal in Arkansas, Georgia, Louisiana, and Mississippi. By the end of August, harvest was underway in Arizona and was 10% complete in Texas.

Sorghum was mostly good to fair during August. Early in the month, lack of rain stressed sorghum in the central and northern Great Plains. Chinch bug infestations were heavy in the drier areas of Kansas and Nebraska. Harvest was underway in Texas. In late August, rain improved crop condition in the central Great Plains. By the end of August, crop development lagged behind normal in most of the 11 major producing States. As of August 27, 34% of the acres were turning color, 11 points behind normal. Harvest was underway in Louisiana and Mississippi and was 52% complete in Texas.

Rain and cool weather slowed crop development and harvest in the central and southern Great Plains early in September. Late in the month, frost damaged late planted crops in the central and northern Great Plains and portions of the Corn Belt. In the Delta and Southeast, early September was dry but late in the month, rain and cool weather slowed crop development and hampered crop harvests. Hurricane Hugo damaged crops in North and South Carolina the third week of September. In California, heavy rains late in September slowed harvest activity and damaged some fruit and nut crops. Corn was 84% mature, 6 points behind normal on October 1. Harvest was 16% complete, also 6 points behind normal. Cool, wet weather slowed crop development in the central and southern Great Plains in early September. Frost damaged some corn in the central and northern Great Plains and portions of the Corn Belt during the last half of the month. Hurricane Hugo caused lodging problems in the Carolinas. Crop maturity continued to lag behind normal in the Corn Belt. On October 1, corn maturity lagged 62 points behind normal in Ohio. Harvest was behind normal in all the major producing States except South Dakota. On October 1, 69% of the soybean acres were dropping leaves, 6 points behind normal. Harvest was 18% complete, 2 points behind normal. Crop development lagged behind normal in the Corn Belt during September. The third week of September, Hurricane Hugo damaged soybeans in the Carolinas. Late in September, frost may have damaged late planted fields in the central and northern Great Plains and portions of the Corn Belt. On October 1, 65% of the cotton acres was opening bolls, 4 points behind normal. Harvest was 12% complete, 8 points behind normal. Dry weather slowed crop development in the Delta and Southeast in early September. By mid-September, the percentage opening bolls was 30 or more points behind normal in Alabama, Arkansas, Mississippi, and North Carolina. Hurricane Hugo caused some damage in the Carolinas. In late September, cool, wet weather slowed boll opening in the Plains area of Texas. Rain slowed defoliation and harvest in central California late in the month. On October 1, 62% of the sorghum acreage was mature, 8 points behind normal. Harvest was 30% complete, 3 points behind normal. About mid-September frost and high winds damaged sorghum in central Nebraska. The last week of September, frost caused some damage in portions of the central and southern Great Plains. Rice harvest was 65% complete, 7 points behind normal on October 1. First crop harvest was complete in Texas and nearly complete in Louisiana. Harvest lagged 27 points behind normal in Mississippi. Rain slowed harvest in California in late September.

Early in October, rain and wet field conditions continued to slow crop harvests in the Delta and the East. Drier weather late in the month improved harvest conditions. The Great Plains and the West remained dry in October. The third week of October, frost damaged some late planted crops in the central Great Plains. Early in October, corn harvest lagged behind normal in most areas. Harvest progressed well in the western Corn Belt and was ahead of normal by the end of the month. Rain slowed harvest in the eastern Corn Belt where harvest still lagged behind normal at the end of October. Soybean harvest progressed well in the Great Plains and western Corn Belt during October. Rain slowed harvest in the eastern Corn Belt, Delta and Southeast. Cotton harvest lagged behind normal in the Delta and Southeast during October. Late in October, frost damaged late planted cotton in Louisiana, Mississippi, and the Plains area of Texas. Sorghum harvest progressed well in the central and northern Great Plains during October. Frost damaged late plantings in the central Great Plains in late October. Rice harvest was complete except in California by the end of October.

Harvest was nearly complete in the central and northern Great Plains early in November. Harvest progressed rapidly during the month in the Delta and Southeast. Rain slowed harvest in the eastern Corn Belt periodically during the month. By the end of November, harvest progress was ahead of normal in most areas. Corn harvest was 88% complete, 10 points ahead of normal by November 5. Harvest was ahead of normal except in the eastern Corn Belt. By mid-month, harvest was complete except in the eastern Corn Belt. Rain and snow slowed harvest in Indiana, Ohio, and Pennsylvania.

Harvest was 88% complete, 2 points ahead of normal in Ohio by November 26. Harvest continued in Indiana and Pennsylvania. By November 5, soybean harvest was 87% complete, 11 points ahead of normal. Harvest was complete in Minnesota and South Dakota and nearly complete in Illinois, Iowa, Michigan, and Nebraska. By mid-month, harvest was nearly complete except in the Southeast. Rain slowed harvest in the eastern Corn Belt and the Delta during November. By November 26, harvest was 97% complete, 5 points ahead of normal. Cotton harvest made rapid progress in November. On November 5, harvest was 55% complete, 5 points ahead of normal. By November 26, harvest was 86% complete, 17 points ahead of normal. Harvest lagged behind normal in the Southeast early in the month, but by the end of November, harvest was near or ahead of normal in all the major producing States. In Texas, freezing temperatures damaged late maturing fields in the Plains area early in the month. By the end of November, harvest was 31 points ahead of normal in Texas and 40 points ahead in Oklahoma. The third week of November, freezing temperatures damaged late cotton in Georgia.

Cotton harvest was slowed by rain in the Southeast in early December. By mid-month, harvest was complete in Arizona and California. In the Plains area of Texas, light snow slowed harvest during the third week of December. By the end of December, cotton harvest was complete in Texas and the Southeast. Corn harvest continued in the eastern Corn Belt early in December and was complete by mid-month. Soybean harvest was slowed by rain in the Delta and Southeast early in the month but was virtually complete by mid-December.

1989 WEATHER REVIEW

The winter of 1988-89 was unusually mild and dry in large parts of the Nation. In the spring, the eastern half of the Nation and the Pacific Northwest were wetter than normal, while the Great Plains and most of the West were dry. During the summer, the northern Great Plains and western Corn Belt remained dry, while heavy rains soaked the central and southern Great Plains and the Southeast. Dry conditions covered much of the western two-thirds of the Nation during the fall, while the eastern third was abnormally wet.

WINTER (DECEMBER 1988-FEBRUARY 1989): The winter of 1988-89 was unusually mild and dry in large parts of the country. Nationally, it was the 9th driest winter since records began in 1895, with much of the Northeast and south Atlantic regions recording less than 50 percent of normal precipitation. The Northeast had its third driest winter of record. Burlington, Vermont, measured just under 2 inches of precipitation for the entire 3-month period. Precipitation was also well below normal in some important wheat growing areas of the Great Plains, as well as in southeast Texas and most of the Pacific States. Wheat growing areas of central and western Kansas recorded less than 1 inch of precipitation. The third consecutive year of below-average precipitation threatened irrigation water supplies in California. In contrast, precipitation was above normal in some of the northern Plains areas affected by extreme dryness last spring and summer. Unusually wet weather extended in a broad band from central Texas northeastward through the Tennessee and Ohio Valleys. Temperatures were above normal east of the Continental Divide and below normal in the West, but record cold covered Alaska during the second half of January and plunged southward into the contiguous United States during the first week of February. Temperatures as low as -50 degrees were the lowest recorded in the last 4 years.

SPRING (MARCH - MAY): The spring of 1989 was noted for the unusual amount of severe weather (see Weekly Weather and Crop Bulletin, Vol. 76, No. 23, June 13, 1989). Outbreaks of severe storms brought flooding, damaging winds, large hail, and tornadoes to much of the eastern half of the Nation. Rainfall was particularly heavy in the central Gulf Coast States, eastern Corn Belt, and along the middle and northern Atlantic coast. Wet weather also prevailed in the Northwest. Dry weather, however, remained over much of the western Corn Belt, northern Plains, south Atlantic coast, and southern Texas.

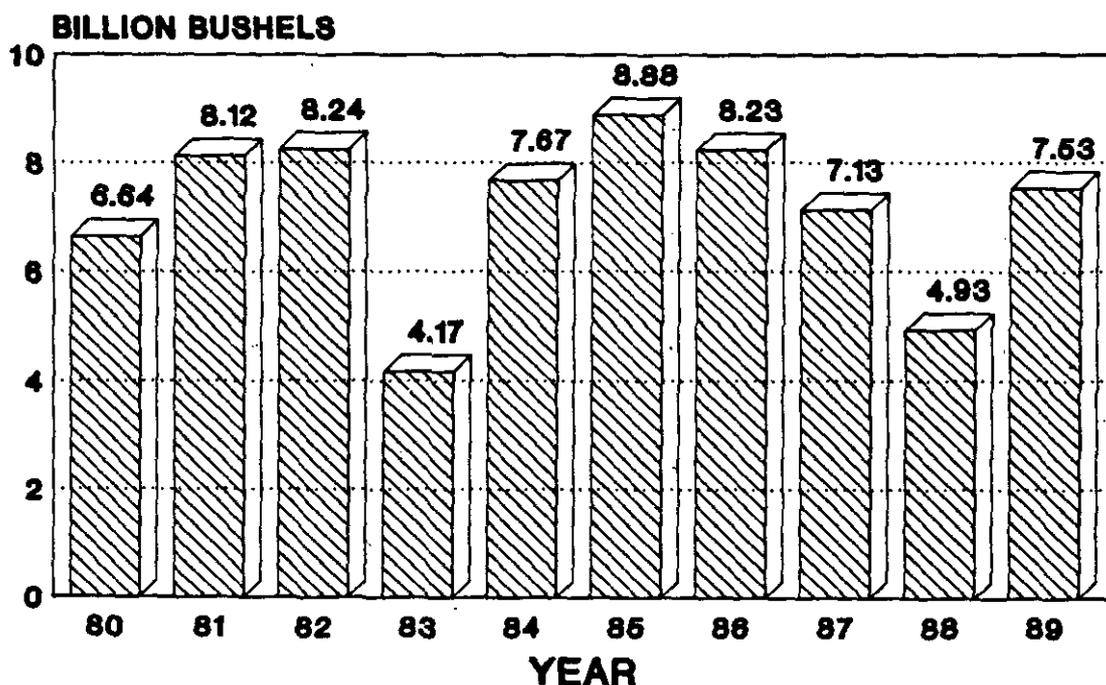
Very warm weather dominated the West, while temperatures averaged near to below normal across the northern Plains and the eastern half of the United States.

SUMMER (JUNE - AUGUST): Dry weather prevailed across the northern Plains into the western Corn Belt, although substantial rain at summer's end eased long-term dryness in some areas. In contrast, heavy rains soaked the central and southern Plains into the Southeast and along parts of the middle Atlantic coast. Tropical Storm Allison and Hurricane Chantal were responsible for torrential rain along the central Gulf coast. Cool air settled over the central portions of the Nation, while the North Central States remained warm.

FALL (SEPTEMBER - NOVEMBER): Dry conditions covered much of the western two-thirds of the Nation, while the eastern third was abnormally wet. After torrential rains inundated portions of the Missouri Valley and southern Plains during the first half of September, most of the Great Plains and Western Mississippi Valley were extremely dry. No rain fell over the hard red winter wheat in the central and southern Plains during the latter part of the season. Although temperatures generally averaged near normal, frequent frontal systems brought blasts of arctic air into much of the Nation.

CORN: The 1989 corn for grain production is estimated at 7.53 billion bushels, up 53 percent from the drought reduced production of 4.93 billion bushels of 1988. The U.S. yield is 116.2 bushels per acre, up 31.6 bushels from last year, but only 3.6 bushels below the record yield of 119.8 set in 1987.

U.S. CORN PRODUCTION 1980 - 1989



Planting of the 1989 corn crop progressed slower than average, as excessive rains slowed planting in the eastern Corn Belt and portions of the Delta and Southeast. At the end of May, planting progress was still 4 percent behind average and 9 percent slower than 1988. Development to and through the dough and dent stages lagged about 5 points behind the average for the 17 major States. Seasonal crop development varied with a lack of adequate moisture reducing yield prospects in many western Corn Belt States. Timely rains in most other areas produced much better yield potentials than the 1988 drought affected crop.

Grain harvest was 79 percent complete by the end of October, 6 percent behind last year, but 13 percent ahead of the 1984-88 average. Dry fall weather allowed good field dry down and produced a high quality crop. Acreage for forage and abandonment, at 919 thousand acres, was down sharply from 1.17 million acres last year, but in line with other recent years.

SORGHUM: Production of grain sorghum in 1989 is estimated at 618 million bushels, down 2 percent from the November 1 forecast, but up 7 percent from 1988. The U.S. yield is 55.4 bushels per acre, down 4.4 and 8.4 bushels from the last forecast and last year, respectively. This is the lowest average yield since 1983. Area harvested for grain is estimated at 11.2 million acres, up 23 percent from 1988.

Silage production is estimated at 5.30 million tons, up 1 percent from 1988. Yield is 10.4 tons per acre. Area cut for silage at 510 thousand acres, is down 2 percent from last year.

Most State's grain yields are down from last forecast, ranging from 2 to 13 bushels lower than expected. California, Louisiana, and Nebraska yields increased from last forecast.

Much of Colorado's sorghum was planted late; yields depended on a later than usual growing season. This did not materialize and yields suffered. Kansas yield prospects hovered near normal through late summer and early fall, but the crop developed well behind average. Late September's freeze covered much of the State and apparently did more damage than first thought.

Oklahoma's average yield declined from the last forecast, but is still a record high. It appears that much of the cotton acreage lost to adverse weather in Texas last June went to sorghum. Yields were down from last forecast because of the early freeze in the Plains.

OATS: Production of oats in 1989 is estimated at 374 million bushels, 72 percent above the drought reduced 1988 crop. The area harvested at 6.87 million acres is up 24 percent from last year.

Yields averaged 54.4 bushels per acre, up 15.1 bushels from last year's yield of 39.3 bushels. Seeded area totaled 12.1 million acres in 1989, down 13 percent from 1988.

In the four major producing States, Iowa, Wisconsin, Minnesota, and South Dakota, yields are up sharply from the drought reduced levels of last year. Dry conditions in North and South Dakota during the summer reduced yields from earlier expectations.

BARLEY: Barley production in 1989 is estimated at 403 million bushels, 39 percent above last year's crop of 290 million bushels. Average yield per acre is 48.6 bushels, up 10.6 bushels from the 1988 yield. Yields in the four major producing States of North Dakota, Montana, Idaho, and Minnesota are well above last year.

The area seeded in 1989 totaled 9.18 million acres, down 7 percent from 1988. The area harvested for grain is 8.30 million acres up 9 percent from last year.

ALL WHEAT: Production for 1989 is estimated at 2.04 billion bushels, up 12 percent from 1988. The area for grain totaled 62.1 million acres, up 17 percent from last year. Yields averaged 32.8 bushels per acre, down 1.3 bushels from last year to the lowest average since 1978.

WINTER WHEAT: The 1989 production is estimated at 1.45 billion bushels, down 7 percent from 1988. Yields averaged 35.1 bushels per acre, 4.1 bushels per acre less than in 1988. Harvested area, at 41.5 million acres, is up 4 percent from last season.

DURUM WHEAT: A more complete look at the harvest resulted in a further yield decline in Montana's Durum producing area. The 1989 U.S. Durum production is now estimated at 92.2 million bushels, more than double last year's drought reduced crop. Harvested area, at 3.67 million acres, is up 29 percent from 1989. The U.S. average yield is 25.1 bushels per acre, down 0.2 from October.

OTHER SPRING WHEAT: This year's production is now estimated at 490 million bushels, up 138 percent from 1988. Area for grain is 17.0 million acres, up 61 percent from last year. The 1989 yield is 28.8 bushels per acre.

RICE: Rice production for 1989 is estimated at 154 million cwt, 3 percent below 1988 but 19 percent above 1987. Area harvested totaled 2.69 million acres, down 7 percent from 1988 but 15 percent above 1987. Yield averaged a record high 5,749 pounds per acre, up 235 pounds from last year and 194 pounds above 1987. The previous record high yield of 5,651 pounds per acre was set in 1986. Record high yields were set in Arkansas, California, and Mississippi. Yields were above last year in all States except Louisiana and Texas. California's yield, at 7,900 pounds per acre, was up 880 pounds from last year and 200 pounds above the previous record high yield of 7,700 pounds per acre set in 1986. Arkansas' yield, at 5,600 pounds per acre, was up 250 pounds from last year.

Long grain production is 110 million cwt, down 8 percent from 1988. Medium grain production is 41.1 million cwt, up 11 percent from last year. Short grain production is 3.82 million cwt, 5 percent above last year.

Rice seeding was virtually complete at the beginning of June. By the end of June, heading had begun in Louisiana and Texas. During July, crop development lagged behind normal in the Delta but was near normal in California and Texas. Untimely storms and cool weather lowered yields in Texas. In Louisiana, persistent rains during pollination resulted in reduced yields. Harvest was underway in Louisiana and Texas by the end of July. By the end of August, harvest was just beginning in Arkansas and was over half finished in Louisiana and Texas. Rain slowed harvest in California and Mississippi during September. By the end of September, first crop harvest was complete in Texas and nearly complete in Louisiana. Rain continued to slow harvest in California in early October, but by the end of the month, harvest was virtually complete in all States.

RYE: The 1989 estimate of rye production is 13.5 million bushels, 8 percent less than in 1988. Harvested area at 479 thousand acres was 19 percent below last year. Yield per acre at 28.1 bushels was up 3.4 bushels from 1988.

FLAXSEED: Production in 1989 totaled 1.36 million bushels, 16 percent below 1988 production and the lowest of record since estimates began in 1866. Area planted totaled 210 thousand acres, 24 percent below 1988. Total harvested area was 177 thousand acres in 1989, 22 percent lower than the previous year. Both planted and harvested acreage levels are at a record low. The average yield in 1989 was 7.7 bushels per acre, 0.6 bushels above the 1988 average.

All three estimating States, North Dakota, South Dakota, and Minnesota, were impacted by drought in 1989, but not quite as bad as the year before. North Dakota flaxseed yields averaged 7.0 bushels per acre, the same as in 1988. South Dakota averaged 10.0 bushels per acre, 3.0 bushels above a year earlier. Minnesota yields increased 0.5 bushels in 1989 to 10.5 bushels per acre.

PEANUTS: Production of peanuts in 1989 totaled 4.03 billion pounds, 1 percent larger than the 1988 crop. This production level is the third largest crop of record. The planted area, at 1.67 million acres, was 1 percent greater than the previous year. Harvested area, estimated at 1.64 million acres, was the largest acreage harvested since 1955 and was also up 1 percent from 1988. Yields averaged 2,460 pounds per harvested acre, up 15 pounds from 1988.

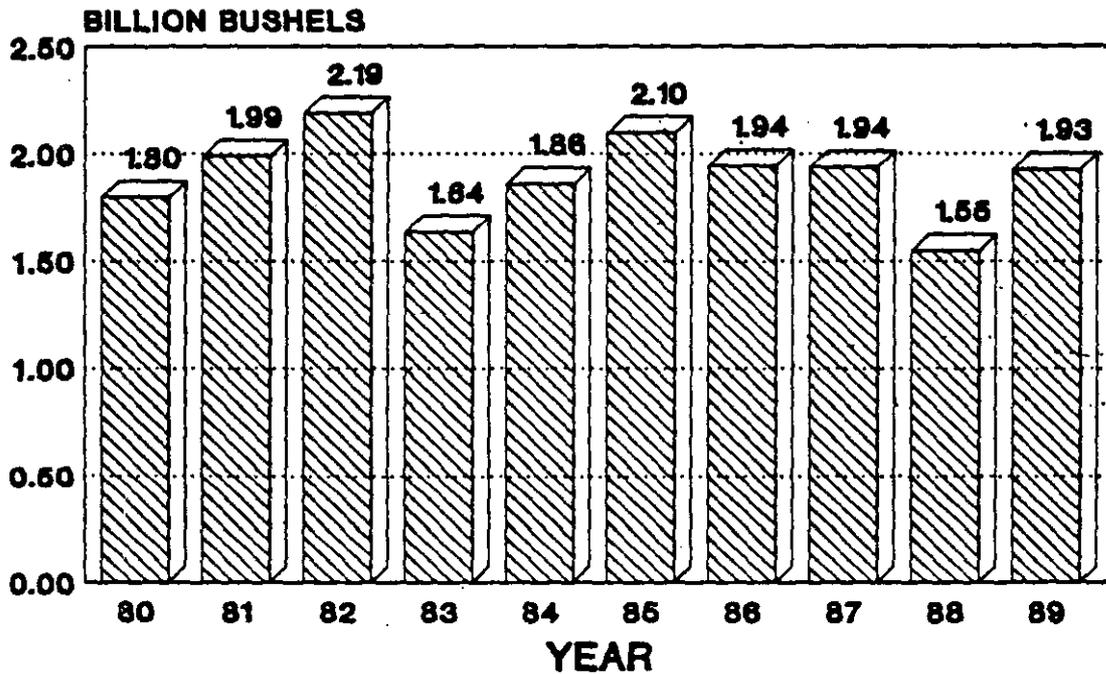
Production in the Southeastern States (Alabama, Florida, Georgia, and South Carolina) totaled 2.66 billion pounds, up 1 percent from 1988. Yield for the 4-State area averaged 2,598 pounds per acre, 36 pounds greater than 1988. Crop prospects declined after August due to excessive rainfall and cool temperatures which reduced yields in Georgia. Alabama experienced the same conditions, in addition to an early frost and white mold problems.

Production from the Virginia-North Carolina area totaled 623 million pounds, down 9 percent from the previous year. Yield per harvested acre, at 2,574 pounds, is 229 pounds below the 1988 yield. In North Carolina, harvest began late and wet weather damaged those peanuts that were dug, but not threshed. In Virginia, wet weather and shattering of the nuts during harvest, resulted in reduced yields.

The Southwest crop production (New Mexico, Oklahoma, and Texas) totaled 744 million pounds, up 11 percent from 1988. Yields averaged 2,003 pounds per acre, 135 pounds above the previous year. In Texas, growing conditions on non-irrigated acreage varied during the year, but high yields on irrigated acreage resulted in a record high yield for the State.

SOYBEANS: Production for 1989 totaled 1.93 billion bushels, 24 percent above the drought-stricken 1988 crop but 1 percent below 1987 production. Planted area totaled 60.7 million acres, 3 percent above 1988. Area harvested, at 59.4 million acres, is 4 percent higher than the 1988 crop. The 1989 average yield was 32.4 bushels per acre, 5.4 bushels above the 1988 average and the fourth highest of record.

U.S. SOYBEAN PRODUCTION 1980 - 1989



Yields in most States increased over drought-reduced yields of 1988, except in the Delta and southeastern States where excessive moisture delayed plantings and hampered yields in 1989. Yields in the Corn Belt and Midwest were much improved in 1989 versus 1988. Illinois averaged 40 bushels per acre, 13 bushels above 1988 and was the leading yield and production State in 1989. Iowa averaged 39 bushels, up 8 bushels per acre.

Minnesota and Indiana averaged 37 bushels per acre, up 11.0 and 9.5 bushels, respectively. Ohio and Nebraska averaged 32 bushels, up 5 and 2 bushels per acre, respectively. Missouri yields were 2.0 bushels above 1988, at 28.5 bushels per acre. Four States set record high or equaled previous record yields, including: Michigan, at 36 bushels per acre; Virginia, at 32; Texas, at 30; and North Carolina, at 27.

In the Delta and Southeast, a troublesome weather year resulted in mixed yields, but mostly below 1988 averages. Only Georgia and North Carolina had average yields equal to or above 1988. Georgia increased yields by 1 bushel per acre, averaging 26.0 bushels in 1989. Arkansas and Tennessee at 24.0 bushels per acre, and Mississippi, at 20 bushels per acre, were all down 2 bushels from 1988. Louisiana and Alabama both averaged 21 bushels per acre, down 8 and 4 bushels, respectively.

Soybean plantings in 1989 got off to a slow start due to excessive moisture, especially in the eastern Corn Belt, Delta, and Southeastern States. A few States did not realize earlier planting intentions as summer rains persisted. Timely rains in late August and into September supported the crop in the western Corn Belt, where subsoil moisture has been very short. The eastern Corn Belt crop progressed behind normal due to wet conditions and cool temperatures. Again the Delta was set back as dry weather returned during critical crop development. Harvest conditions were ideal in most of the Corn Belt States, reducing abandonment. The Delta States abandoned more acres than usual due to a variety of weather related conditions during the planting and growing seasons.

ALL COTTON: All cotton production is estimated at 12.2 million bales, down 21 percent from last year's production. Of the total, Upland is expected to account for 11.6 million bales while Pima production will be a record high 663 thousand bales. Total area for harvest is estimated at 9.49 million acres, down 21 percent from 1988. Yield is expected to average 619 pounds per acre, equal to the previous year.

Upland cotton production in Texas and Oklahoma is estimated at 3.08 million bales, 44 percent below 1988. In Texas, cotton harvest neared completion by late December, well ahead of normal and last year. With an earlier than normal freeze during October and good harvest conditions, harvest progressed at a rapid pace.

The Delta States (Arkansas, Louisiana, Mississippi, Missouri, and Tennessee) crop at 4.03 million bales, is down 14 percent from last year.

The crop was planted late due to excessive rainfall, and some fields were lost. Harvest was behind the average pace in this region until late in the fall, but was completed in Mississippi and Arkansas during December. Louisiana's harvest was completed during late November.

Production in the Western States (Arizona, California, and New Mexico) totaled 3.39 million bales, down 11 percent from 1988. The yield in this region averaged 1,220 pounds per acre, 182 pounds above the 1988 yield. The Arizona and California crops were in good to excellent condition during the season, and harvest was completed in these two States during December.

Production in the Southeastern States (Alabama, Georgia, North Carolina, and South Carolina) at 1.04 million bales, is 1 percent above the 1988 production. Yield in this region averaged 596 pounds per acre, up from the 514 pounds per acre realized last year. Although plantings were delayed in many areas due to wet conditions, favorable weather with low humidity late in the season allowed the top bolls to mature. Harvest continued almost uninterrupted, and more than one trip through fields was possible.

Production in the Southeastern States (Alabama, Georgia, North Carolina, and South Carolina) at 1.04 million bales, is 1 percent above the 1988 production. Yields in this region averaged 596 pounds per acre, up from the 514 pounds per acre realized last year. Although plantings were delayed in many areas due to wet conditions, favorable weather with low humidity late in the season allowed the top bolls to mature. Harvest continued almost uninterrupted, and more than one trip through fields was possible.

COTTONSEED: Production for 1989, based on a 3 year average lint-seed ratio, totaled 4.77 million tons, down 21 percent from the 1988 production of 6.06 million tons.

SUNFLOWER: The five-state 1989 production of sunflower totaled 1.79 billion pounds, virtually unchanged from last year. Harvested area, at 1.83 million acres, was 5 percent below 1988. The 1989 average yield of 981 pounds per acre was 48 pounds above the 1988 average. Oil-type sunflower production totaled 1.39 billion pounds, 7 percent below 1988, and accounted for 78 percent of all sunflower production. Area harvested of oil-type varieties totaled 1.41 million acres in 1989, compared with 1.63 million acres in 1988. The oil-type yield, at 984 pounds per acre, was 63 pounds higher than in 1988.

Non-oil type production totaled 401 million pounds, up 38 percent from 1988. Area harvested, at 413 thousand acres, was 42 percent above a year earlier. The average yield of non-oil type varieties, at 972 pounds per acre was 27 pounds below the 1988 average.

In the Dakotas, sunflower planting was completed by mid-June, slightly ahead of normal. Dry weather during the growing season reduced yield prospects. Harvest was completed slightly ahead of normal.

ALL HAY: Production of all hay is estimated at 145 million tons, an increase of 15 percent from last year but 1 percent less than in 1987. The larger production from a year ago came from higher yields which were partially offset by lower acreage. The average yield of 2.29 tons per acre compares with the drought reduced average of 1.94 tons per acre a year ago and the 2.45 ton average of two years ago. Area harvested, totaled 63.4 million acres, down 3 percent from 1988 but up 5 percent from 1987.

ALFALFA AND ALFALFA MIXTURES: United States alfalfa hay production totaled 77.2 million tons in 1989, 11 percent above 1988 but 8 percent below 1987. Compared with a year earlier, larger yields more than offset the smaller area harvested. Growers cut an average of 2.98 tons per acre compared with 2.59 tons last year and 3.31 tons in 1987. The total area cut for hay, at 25.9 million acres, falls short of last year's area harvested for alfalfa hay by 3 percent but was 2 percent greater than two years ago.

ALL OTHER HAY: All other hay production reached 68.2 million tons in 1989. This was 20 percent more than a year earlier and 8 percent above 1987. Yield per acre averaged 1.82 tons, up 0.34 of a ton from 1988 and the same as two years ago. Area harvested in 1989 was down 2 percent from the previous year but up 8 percent from two years earlier.

DRY BEANS: Production of dry edible beans in 1989 is estimated at 24.3 million cwt, up 26 percent from 1988, but 7 percent short of the 1987 production. Harvested acreage is set at 1.69 million acres, a gain of 25 percent from a year ago, and 1 percent above 1987. The average yield of 1440 pounds per acre is up 1 percent from 1988, but 8 percent below 2 years ago.

Most of the production increase came from pinto and navy beans, although neither class produced as much as 2 years ago. Kidney, pink, and black turtle soup beans were also up substantially. On the down side were sharp reductions in great northern and small white. Garbanzo and blackeye were also lower.

The resurgence in navy bean production came from a very favorable late summer and fall season in Michigan. Hard frost held off long enough to allow a very late planted crop to mature. Drought conditions continued in dryland bean fields of North Central and Western States. The use of irrigation in Nebraska, Eastern Colorado, and Wyoming was vital to bean production.

LENTILS: Production of lentils in the U.S. is set at 1.16 million cwt for 1989, up 30 percent from the previous year, but 35 percent below 1987. Growers harvested 92.0 thousand acres of lentils in 1989, up 30 percent from a year earlier. The average yield of 1262 pounds per acre was up slightly from last year.

DRY EDIBLE PEAS: U.S. production of dry peas is set at 3.88 million cwt, slightly above 1988 and up 15 percent from 1987. Growers harvested 174 thousand acres of dry peas in 1989, down 3 percent from a year earlier, but 8 percent above 1987. The average yield of 2232 pounds per acre gained 3 percent over the 1988 level.

AUSTRIAN WINTER PEAS: Growers in Idaho and Oregon produced 166 thousand cwt of Austrian winter peas in 1989, a gain of 25 percent over 1988, but less than a third of the 1987 crop.

Most Austrian winter pea acreage is used for a cover crop, although farmers harvested 10.2 thousand acres for peas, a gain of 2 percent from 1988. The average yield of 1627 pounds per acre in 1989 gained 22 percent over 1988.

WRINKLED SEED PEAS: Growers in Washington and Idaho produced 1.25 million cwt of wrinkled seed peas in 1989. This is up 23 percent from 1988 and nearly double the 1987 output.

ALL POTATOES: Production of potatoes for all four seasons totaled 370 million cwt in 1989, up 4 percent from a year earlier but 5 percent below 1987. Harvested area totaled 1.28 million acres up 2 percent from 1988 but 1 percent below 1987. The average yield was 289 cwt per acre, up 6 cwt from a year ago but 12 cwt short of 1987.

WINTER POTATOES: Growers in California and Florida produced 2.76 million cwt of winter potatoes in 1989, a gain of 6 percent over 1988 and 11 percent above 1987. Area for harvest at 13.1 thousand acres was up 7 percent from a year earlier but the average yield was down from the comparable period 1 percent.

SPRING POTATOES: Production of spring potatoes in 1989 is set at 20.9 million cwt, up 4 percent from the previous year and 10 percent above 1987. The 88.9 thousand acres harvested was up 11 percent from 1988, but lower average yields dampened the production increase. Frost damaged fields in Florida and Texas and poorer yields in North Carolina more than offset better yields in Arizona, and Alabama.

SUMMER POTATOES: Estimates of summer production totaled 22.0 million cwt, up 9 percent from 1988 but 4 percent short of 1987 output. Harvested acreage at 93.2 thousand acres, was 2 percent more than a year ago but 7 percent below 1987. The average yield was 236 cwt per acre for the summer States, up 16 cwt from last year and 9 cwt above 1987.

FALL POTATOES: Production is estimated at 325 million cwt, up 4 percent from last year but 6 percent below two years ago. Harvest came from 1.09 million acres in 1989, up 1 percent from 1988 but 1 percent below 1987. The average yield was 299 cwt per acre, a gain of 7 cwt from last year but 15 cwt below the record high in 1987.

The six EASTERN STATES produced 34.3 million cwt of potatoes in 1989, up 2 percent from 1988 but down 9 percent from 1987. Harvested acreage of 133 thousand acres was down 36 percent from last year but the average yield of 257 cwt per acre gained 5 percent. Higher yields in Pennsylvania and New York were responsible for the increase.

Eight CENTRAL STATES produced a crop of 66.2 million cwt in 1989, a gain of 7 percent from a year earlier but 17 percent short of 1987 output. Area for harvest was 330 thousand acres, down fractionally from last year and 2 percent below two years ago. The average yield gained 8 percent to 201 cwt per acre. Better yields on irrigated fields in Wisconsin, Minnesota, South Dakota, and Nebraska more than offset poorer crops in North Dakota and Ohio.

The nine WESTERN STATES produced 224 million cwt of potatoes in 1989, up 3 percent from 1988 but 1 percent below 1987. Acreage for harvest, at 623 thousand acres, was up 3 percent from 1988 and 1 percent above 1987. The average yield of 360 cwt per acre was unchanged from last year. Production in Idaho totaled 102 million cwt, down fractionally from 1988, where increased acreage almost made up for smaller sizes and yields. Washington production of 64.3 million cwt was 2 percent above a year ago; while Oregon at 23.3 million cwt and Colorado at 20.6 million cwt registered production gains of 12 and 8 percent, respectively.

SWEETPOTATOES: Production of sweetpotatoes in 1989 was estimated at 11.5 million cwt, up 5 percent from a year earlier, but 1 percent below 1987. Harvested area was 85.7 thousand acres, slightly above 1988, but 4 percent below 1987. The average yield of 134 cwt per acre was up 6 cwt from 1988.

TOBACCO: U.S. all tobacco production totaled 1.41 billion pounds in 1989, 3 percent above 1988 and up 19 percent from the 1987 crop. The higher production from a year ago resulted from increased acreage which was partly offset by lower yields. Growers harvested 689 thousand acres in 1989, 9 percent more than a year earlier and 17 percent greater than two years ago. Yield per acre averaged 2054 pounds per acre, compared with 2160 last year and 2028 in 1987.

Flue-cured production is estimated at 806 million pounds, 1 percent less than a year ago but up 17 percent from 1987. Compared with last year, lower yields more than offset increased acreage. Yield per acre, at 2062 pounds was off 157 pounds from last year's average and was 67 pounds short of 1987. Area harvested was up 7 percent from one year ago and 20 percent greater than two years previous.

Dark fire-cured output at 31.4 million pounds, exceeded the previous year by 2 percent. Increased acreage was largely offset by reduced yields. Harvested area, at 15.9 thousand acres, was up 18 percent from last year. The average yield per acre of 1969 pounds was down 302 pounds from 1988.

Burley production totaled 526 million pounds this year, 10 percent above a year ago and exceeded the 1987 output by 25 percent. The change from last year reflects an acreage increase which was moderated by lower yields. The 252 thousand acres harvested were 11 percent above 1988 and up 17 percent from 1987. This year's yield per acre averaged 2087 pounds, 21 pounds less than a year ago but 145 pounds more than two years earlier.

Southern Maryland type production, at 17.8 million pounds, was off 3 percent from the previous crop. The decrease resulted from reduced yields which were off 50 pounds per acre to average 1426 pounds. Acreage at 12.5 thousand acres, was the same as last year.

Production of dark air-cured tobacco of 8.30 million pounds was up 10 percent from a year earlier. The increase followed a 25 percent acreage increase but was largely offset by a 261 pound per acre decline in the average yield.

All cigar-type production is estimated at 24.9 million pounds, 11 percent more than in 1988 and 7 percent above the 1987 output. Compared with last year, filler production is 2 percent larger. Binder production is up 27 percent. Production of wrapper is off 4 percent from a year ago.

SUGARBEETS: Production of sugarbeets in 1989 is estimated at 25.6 million tons, 3 percent more than produced in 1988. This increase in production resulted from higher yields. Yield per acre averaged 19.6 tons per acre compared with 19.1 tons the previous year. Area harvested totaled 1.31 million acres, nearly the same as the 1.30 total a year ago.

Minnesota with 5.46 million tons replaced California as the leading producing state this year. Minnesota's production was up 15 percent from a year earlier.

California's output totaled 4.95 million tons. A 15 percent reduction from last year in acreage more than offset a 2.5 ton per acre higher yield.

In other leading producing states, Idaho at 4.07 million tons compared with 4.08 a year ago; North Dakota, at 2.83 million tons, was up 10 percent; and Michigan's 2.63 million tons was 10 percent above a year earlier.

SUGARCANE: Production of sugarcane for sugar and seed is estimated at 29.6 million tons, 1 percent below last year's output. The 1989 crop of sugarcane for sugar of 28.2 million tons is 1 percent less than the 1988 output. The decrease is the result of a lower average yield which was only partly offset by increased acreage. The area harvested totaled 809 thousand acres, 2 percent more than a year earlier. Yield per acre averaged 34.9 tons compared with 35.9 last year.

Florida's production of sugarcane for sugar at 12.8 million tons was nearly the same as in 1988. Acreage is up but yield is down from a year ago. This tonnage reflects the effect of freezing temperatures that hit on December 22 with less than half of the crop harvested. Harvesting conditions and temperatures during the remainder of harvest will also undoubtedly impact on the final outcome.

Hawaiian production of sugar is estimated at 7.00 million tons, 8 percent less than last year. The decline is primarily the result of reduced acreage. Yields were also off.

Louisiana's sugarcane production for sugar is expected to total 7.54 million tons, up 7 percent from last year. The increase follows a 4 percent increase in area harvested for sugar and an average yield per acre of 0.7 of a ton more than a year earlier. Harvest was virtually completed before the late December freeze.

Texas output of sugarcane for sugar at 882 thousand tons, is down 17 percent from last year. Sharply lower yields more than offset higher acreage. The crop suffered freeze damage in late December but the lower yields are largely the result of less favorable growing conditions during the year.

SUGAR: Production of raw sugar from the 1989 sugarcane and sugarbeet crops is estimated at 6.62 million tons raw value, down 4 percent from the 1988 crop total. The decrease reflects the smaller tonnage and freeze damage to the sugarcane crop and a lower average recovery of sugar from the sugarbeet crop.

Output of beet sugar is expected to total 3.49 million tons raw value, off 1 percent from the quantity produced from the previous beet crop. Output of refined sugar per ton of sugarbeets averaged about a pounds less than a year ago.

Raw cane sugar from the mainland crop is estimated at 2.27 million tons, 8 percent less than a year earlier. Hawaii's raw cane sugar output, at 860 thousand tons, is 7 percent below a year ago.

COFFEE: The 1989-90 Hawaiian coffee crop is estimated at 2.20 million pounds. This is 10 percent above the previous season. A higher average yield and an increase in harvested acreage were responsible for this season's higher production.

TARO: Hawaiian taro production totaled 6.50 million pounds in 1989. This is 4 percent less than 1988. Average yield decreased to 15.1 thousand pounds per acre is compared with 16.2 thousand pounds per acre in 1988. Area in crop is 2 percent greater than 1988. Taro production was hampered by an unusually wet spring. Disease, reduced sunlight, and flooding caused the lower than normal yields.

PEPPERMINT OIL: Production of peppermint oil in 1989 is estimated at 6.65 million pounds, up 24 percent from 1988 and 48 percent above 1987. This marked the seventh consecutive year with increased production. Area harvested totaled 101 thousand acres, 25 percent above a year earlier and 50 percent more than 2 years ago. Acreage and production are both up from a year ago in all 5 producing states. Yields averaged 66 pounds per acre, compared with 67 pounds last year. Oregon, the leading state, accounted for 47 percent of the total production compared with 53 percent in 1988.

SPEARMINT OIL: Output of spearmint oil totaled 1.85 million pounds, 6 percent more than in 1988 but 10 percent less than in 1987. Area harvested totaled 26.4 thousand acres, 17 percent greater than last year and up 10 percent from 1987. Compared with a year ago, acreage was up in all but one producing state. The average yield of 70 pounds per acre was off 7 pounds from the previous year and has declined for the third consecutive year. Washington was again the leading state but only accounted for 60 percent of the total production compared with 72 percent last year.

HOPS: Production of hops in 1989 totaled 59.3 million pounds, 8 percent more than last year and 19 percent above 1987. Compared with 1988, harvested area increased 3 percent to 34.5 thousand acres, while the average yield increased 5 percent to 1717 pounds per acre.

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