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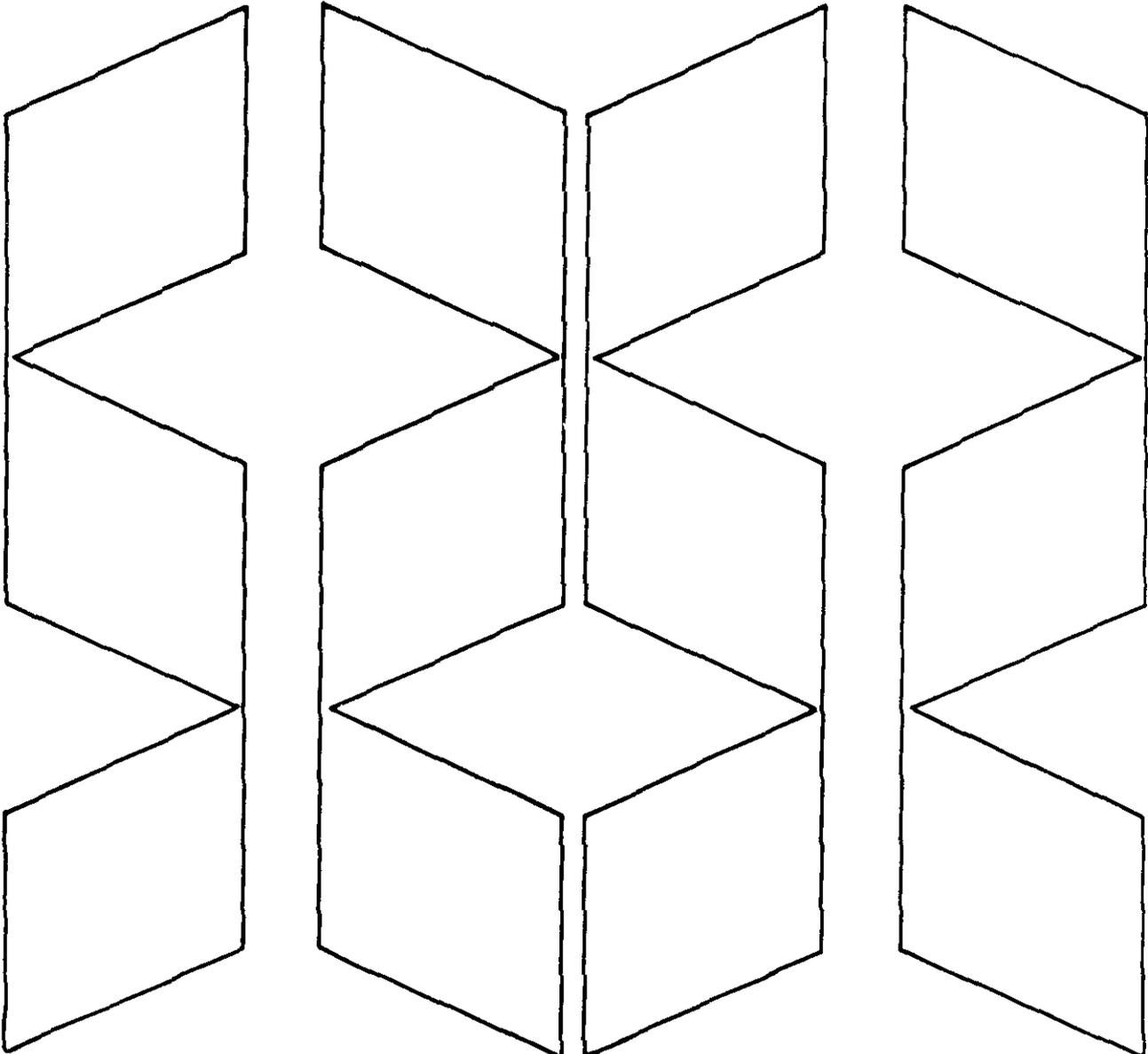


Fact Finding  
for Agriculture

January 1989  
CrPr 2-1 (89)

# Crop Production

## 1988 Summary



INDEX NUMBERS OF CROP PRODUCTION  
UNITED STATES, 1979-88 (1977=100)

YEAR	PRODUCTION								
	ALL 1/	FEED GRAINS	HAY AND FORAGE	FOOD GRAINS	SUGAR CROPS	COTTON	TOBACCO	OIL CROPS	
1979	113	116	108	108	94	102	80	129	
1980	101	97	98	121	97	79	93	99	
1981	117	121	106	144	107	109	108	114	
1982	117	122	109	138	96	85	104	121	
1983	88	67	100	117	93	55	75	91	
1984	111	116	107	129	95	91	90	106	
1985	117	134	106	121	97	93	79	117	
1986	107	123	106	107	106	68	61	107	
1987	106	105	102	107	111	103	62	107	
1988	89	73	88	98	105	107	70	88	

1/ INCLUDES SOME MISCELLANEOUS CROP PRODUCTION NOT INCLUDED IN SEPARATE GROUPS OF CROPS SHOWN.

The CROP PRODUCTION report contains State and National estimates with related information on selected agricultural commodities. These data were prepared and adopted by the Agricultural Statistics Board which consists of commodity statisticians from the field offices and Washington headquarters.

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## HIGHLIGHTS

**CORN FOR GRAIN:** Production in 1988 is estimated at 4.92 billion bushels, down 30 percent from the 1987 crop. The drought reduced U.S. yield of 84.6 bushels per acre is 34.8 bushels below the record high of 119.4 bushels produced in 1987.

**SORGHUM FOR GRAIN:** Production totaled 578 million bushels, down 22 percent from 1987 to the lowest level since 1964. The U.S. yield is 63.8 bushels per acre, off 5.9 bushels from last year's record average.

**OATS:** Production in 1988 totaled 219 million bushels, 42 percent below the 1987 production and the smallest crop since records were first kept. The U.S. average yield per acre of 39.1 bushels was 14.9 bushels below the 1987 yield.

**BARLEY:** Production in 1988 is estimated at 291 million bushels, down 45 percent from last year's production. Average yield per acre is 38.6 bushels, down 14.1 bushels from 1987.

**FEED GRAINS:** Production of feed grains (corn, sorghum, oats, and barley) totaled 149 million metric tons, down 31 percent from last year's 215 million metric tons.

**ALL HAY:** Production of all hay in 1988 is estimated at 127 million tons, down 15 percent from last year's tonnage and 18 percent less than in 1986. The decline from a year ago reflects drought reduced yields which were only partly offset by an increase in the harvested area.

**ALL WHEAT:** The 1988 production is 1.81 billion bushels - the lowest level in 10 years, 14 percent less than in 1987. Yields averaged 34.1 bushels per acre, down 3.6 bushels from last year.

**RICE:** Production of rice is estimated at 160 million hundredweight, 23 percent above the 1987 crop and 20 percent above 1986. This is the largest production since 1981.

**FOOD GRAINS:** Wheat, rye, and rice production totaled 56.9 million metric tons in 1988, 10 percent below the 63.6 million metric tons produced in 1987.

**ALL TOBACCO:** All tobacco production in 1988 totaled 1.35 billion pounds, a 13 percent increase from 1987 and 16 percent larger than the 1986 crop. The larger crop from a year ago is the combined result of increased acreage and higher yields.

**SOYBEANS:** Production for 1988 is estimated at 1.54 billion bushels, 20 percent below last year and the lowest production since 1976.

**ALL COTTON:** Production of Upland and American-Pima cotton in 1988 totaled 15.4 million bales, up 5 percent from 1987 and the highest production since 1981.

**PEANUTS:** Production of peanuts in 1988 totaled 4.01 billion pounds, 11 percent above the 1987 crop. Area harvested was 5 percent above 1987 and yield averaged 139 pounds per acre more than in 1987.

**SUNFLOWER:** Production totaled 1.62 billion pounds, 38 percent below 1987. Average yield per acre at 898 pounds is the lowest recorded since estimates were started in 1975.

**OILSEED:** Production of soybeans, cottonseed, peanuts, flaxseed, and sunflower combined totaled 50.0 million metric tons in 1988, down 17 percent from a year earlier.

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

CROP	AREA PLANTED			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
ALL CORN	76,674	65,704	67,619			
CORN FOR GRAIN				69,159	59,208.0	58,164.0
CORN FOR SILAGE				6,274	5,829.0	8,295.0
ALL SORGHUM	15,336	11,804	10,358			
SORGHUM FOR GRAIN				13,859	10,604	9,052
SORGHUM FOR SILAGE				500	424	548
OATS	14,691	17,959	13,927	6,860	6,925	5,590
BARLEY	13,059	11,046	9,676	12,007	10,057	7,535
ALL WHEAT	72,068	65,834	65,529	60,723	55,960	53,174
WINTER	53,965	48,811	48,800	43,205	39,347	39,785
DURUM	2,994	3,341	3,336	2,877	3,279	2,847
OTHER SPRING	15,109	13,682	13,393	14,641	13,334	10,542
RICE	2,381.0	2,356.0	2,928.0	2,360.0	2,333.0	2,895.0
RYE	2,384	2,498	2,444	677	683	607
ALL SOYBEANS	60,385	57,955	58,870			
SOYBEANS FOR BEANS				58,292	56,977	57,383
FLAXSEED	720	470	275	683	463	226
ALL PEANUTS	1,572.7	1,567.4	1,647.6			
PEANUTS FOR NUTS				1,537.2	1,546.4	1,617.6
SUNFLOWER	2,025	1,805	1,938	1,955.0	1,775.0	1,806.0
ALL COTTON	10,044.6	10,407.2	12,497.4	8,468.4	10,035.3	11,890.8
UPLAND	9,933.1	10,269.3	12,310.0	8,357.3	9,898.7	11,703.9
AMER-PIMA	111.5	137.9	187.4	111.1	136.6	186.9
ALL HAY				62,419	60,748	65,559
ALFALFA				26,793	25,535	26,695
ALL OTHER				35,626	35,213	38,864
DRY EDIBLE BEANS	1,673.8	1,800.6	1,498.4	1,495.0	1,688.4	1,366.0
DRY EDIBLE PEAS	180.0	163.0	181.0	179.0	161.0	179.0
AUSTRIAN WINTER PEAS	32.0	42.0	13.0	31.5	33.0	10.0
LENTILS	159.0	143.0	72.0	158.0	142.0	71.0
POTATOES						
WINTER	12.5	11.9	12.5	12.3	11.7	12.3
SPRING	77.4	82.5	80.1	75.9	80.7	79.0
SUMMER	102.2	103.4	97.3	95.2	100.4	92.1
FALL	1,065.1	1,104.2	1,078.9	1,036.2	1,086.5	1,059.5
TOTAL	1,257.2	1,302.0	1,268.8	1,219.6	1,279.3	1,242.9
SWEETPOTATOES	97.1	96.7	92.6	93.4	93.3	89.1
TOBACCO				581.6	587.1	631.7
SUGARBEETS	1,231.5	1,266.7	1,326.8	1,191.2	1,252.4	1,300.6
SUGARCANE FOR SUGAR AND SEED				796.2	823.6	844.2
PEPPERMINT OIL				64.2	65.8	80.5
SPEARMINT OIL				28.5	23.8	22.6
TARO (HAW)				.4	.4	.4
COFFEE (HAW)				2.0	2.1	2.2
HOPS				25.0	28.3	33.4
PRINCIPAL CROPS 1/	327,301	305,101	308,344	311,519	289,628	290,077

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		
	1986	1987	1988	1986	1987	1988
				1,000		
CORN FOR GRAIN BU	119.3	119.4	84.6	8,249,864	7,072,073	4,921,191
CORN FOR SILAGE TON	14.1	14.5	9.5	88,660	84,468	78,925
SORGHUM FOR GRAIN BU	67.7	69.7	63.8	938,124	739,249	577,551
SORGHUM FOR SILAGE TON	11.8	12.2	9.9	5,898	5,157	5,447
OATS BU	56.3	54.0	39.1	386,356	374,000	218,773
BARLEY "	50.8	52.7	38.6	610,522	529,530	290,505
ALL WHEAT "	34.4	37.7	34.1	2,091,635	2,107,480	1,811,261
WINTER "	35.2	39.8	39.2	1,521,498	1,565,176	1,560,970
DURUM "	34.0	28.2	15.7	97,907	92,617	44,831
OTHER SPRING "	32.3	33.7	19.5	472,230	449,687	205,460
RICE CWT 1/	5,651	5,555	5,511	133,356	129,603	159,547
RYE BU	28.8	29.0	24.8	19,522	19,818	15,047
SOYBEANS FOR BEANS "	33.3	33.7	26.8	1,940,101	1,922,762	1,538,666
FLAXSEED "	16.9	16.1	7.1	11,538	7,444	1,615
PEANUTS FOR NUTS LB	2,407	2,341	2,480	3,700,745	3,619,440	4,011,070
SUNFLOWER "	1,369	1,469	898	2,675,750	2,608,150	1,622,370
ALL COTTON BALE 1/	552	706	623	9,731.1	14,759.9	15,445.5
UPLAND " 1/	547	702	620	9,525.2	14,475.3	15,107.3
AMER-PIMA " 1/	890	1,000	869	205.9	284.6	338.2
COTTONSEED TON				3,801	5,769	6,054
ALL HAY "	2.49	2.46	1.93	155,529	149,302	126,817
ALFALFA "	3.42	3.32	2.60	91,552	84,794	69,282
ALL OTHER "	1.80	1.83	1.48	63,977	64,508	57,535
DRY EDIBLE BEANS CWT 1/	1,531	1,535	1,408	22,886	25,909	19,230
DRY EDIBLE PEAS " 1/	1,785	2,102	2,161	3,196	3,385	3,868
WRINKLED SEED PEAS "				864	650	1,017
AUSTRIAN SEED PEAS " 1/	1,429	1,582	1,330	450	522	133
LENTILS "	1,199	1,263	1,259	1,895	1,794	894
POTATOES						
WINTER CWT	243	214	213	2,991	2,501	2,616
SPRING "	261	220	253	19,822	17,724	20,002
SUMMER "	220	227	219	20,927	22,766	20,174
FALL "	307	315	290	317,771	342,471	307,181
TOTAL "	296	301	282	361,511	385,462	349,973
SWEETPOTATOES	136	129	133	12,674	12,064	11,832
TOBACCO LB	2,001	2,028	2,134	1,163,940	1,190,674	1,348,124
SUGARBEETS TON	21.1	22.4	19.1	25,162	28,072	24,794
SUGARCANE FOR						
SUGAR AND SEED "	38.1	35.5	35.9	30,311	29,218	30,347
PEPPERMINT OIL LB	67	68	67	4,328	4,446	5,360
SPEARMINT OIL "	93	86	77	2,658	2,053	1,745
TARO (HAW) "	16,200	15,800	16,200	6,330	6,300	6,800
COFFEE (HAW) "	1,500	878	884	3,000	1,800	1,900
HOPS "	1,962	1,768	1,638	49,062	50,048	54,696

1/ YIELD IN POUNDS.

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

CROP	AREA PLANTED			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
HECTARES						
ALL CORN	31,029,200	26,589,800	27,364,700	27,988,000	23,960,900	23,538,400
CORN FOR GRAIN				2,539,000	2,358,900	3,356,900
CORN FOR SILAGE						
ALL SORGHUM	6,206,300	4,777,000	4,191,800			
SORGHUM FOR GRAIN				5,608,600	4,291,300	3,663,300
SORGHUM FOR SILAGE				202,300	171,600	221,800
OATS	5,945,300	7,267,800	5,636,100	2,776,200	2,802,500	2,262,200
BARLEY	5,284,800	4,470,200	3,915,800	4,859,100	4,070,000	3,049,300
ALL WHEAT	29,165,200	26,642,400	26,518,900	24,574,000	22,646,400	21,519,000
WINTER	21,839,100	19,753,300	19,748,900	17,484,600	15,923,300	16,100,600
DURUM	1,211,600	1,352,100	1,350,000	1,164,300	1,327,000	1,152,200
OTHER SPRING	6,114,500	5,537,000	5,420,000	5,925,100	5,396,100	4,266,200
RICE	963,600	953,400	1,184,900	955,100	944,100	1,171,600
RYE	964,800	1,010,900	989,100	274,000	276,400	245,600
ALL SOYBEANS	24,437,200	23,453,800	23,824,100			
SOYBEANS FOR BEANS				23,590,200	23,058,000	23,222,300
FLAXSEED	291,400	190,200	111,300	276,400	187,400	91,500
ALL PEANUTS	636,500	634,300	666,800			
PEANUTS FOR NUTS				622,100	625,800	654,600
SUNFLOWER	819,500	730,500	784,300	791,200	718,300	730,900
ALL COTTON	4,064,900	4,211,700	5,057,500	3,427,100	4,061,200	4,812,100
UPLAND	4,019,800	4,155,900	4,981,700	3,382,100	4,005,900	4,736,500
AMER-PIMA	45,100	55,800	75,800	45,000	55,300	75,600
ALL HAY				25,260,400	24,584,100	26,531,100
ALFALFA				10,842,900	10,333,800	10,803,200
ALL OTHER				14,417,500	14,250,300	15,727,900
DRY EDIBLE BEANS	677,400	728,700	606,400	605,000	683,300	552,800
DRY EDIBLE PEAS	72,800	66,000	73,200	72,400	65,200	72,400
AUSTRIAN WINTER PEAS	13,000	17,000	5,300	12,700	13,400	4,000
LENTILS	64,300	57,900	29,100	63,900	57,500	28,700
POTATOES						
WINTER	5,100	4,800	5,100	5,000	4,700	5,000
SPRING	31,300	33,400	32,400	30,700	32,700	32,000
SUMMER	41,400	41,800	39,400	38,500	40,600	37,300
FALL	431,000	446,900	436,600	419,300	439,700	428,800
TOTAL	508,800	526,900	513,500	493,500	517,700	503,100
SWEETPOTATOES	39,300	39,100	37,500	37,800	37,800	36,100
TOBACCO				235,300	237,600	255,600
SUGARBEETS	498,400	512,600	536,900	482,100	506,800	526,300
SUGARCANE FOR						
SUGAR AND SEED				322,200	333,300	341,600
PEPPERMINT OIL				26,000	26,600	32,600
SPEARMINT OIL				11,500	9,600	9,100
TARO (HAW)				200	200	200
COFFEE (HAW)				800	800	900
HOPS				10,100	11,500	13,500
PRINCIPAL CROPS 1/	132,455,300	123,471,500	124,783,700	126,068,600	117,209,500	117,391,200

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		
	1986	1987	1988	1986	1987	1988
	METRIC TONS					
CORN FOR GRAIN	7.49	7.50	5.31	209,556,200	179,638,930	125,004,010
CORN FOR SILAGE	31.68	32.48	21.33	80,431,000	76,628,080	71,599,560
SORGHUM FOR GRAIN	4.25	4.38	4.00	23,829,450	18,777,790	14,670,470
SORGHUM FOR SILAGE	26.45	27.26	22.28	5,350,580	4,678,350	4,941,440
OATS	2.02	1.94	1.40	5,607,940	5,428,600	3,175,480
BARLEY	2.74	2.83	2.07	13,292,550	11,529,150	6,325,000
ALL WHEAT	2.32	2.53	2.29	56,924,970	57,356,200	49,294,440
WINTER	2.37	2.68	2.64	41,408,390	42,597,110	42,482,640
DURUM	2.29	1.90	1.06	2,664,590	2,520,620	1,220,100
OTHER SPRING	2.17	2.27	1.31	12,851,990	12,238,470	5,591,700
RICE	6.33	6.23	6.18	6,048,930	5,878,690	7,236,930
RYE	1.81	1.82	1.56	495,880	503,400	382,210
SOYBEANS FOR BEANS	2.24	2.27	1.80	52,800,900	52,329,010	41,875,630
FLAXSEED	1.06	1.01	.45	293,080	189,090	41,020
PEANUTS FOR NUTS	2.70	2.62	2.78	1,678,630	1,641,750	1,819,390
SUNFLOWER	1.53	1.65	1.01	1,213,700	1,183,040	735,890
ALL COTTON	.62	.79	.70	2,118,700	3,213,590	3,362,860
UPLAND	.61	.79	.69	2,073,870	3,151,630	3,289,230
AMER-PIMA	1.00	1.12	.97	44,830	61,960	73,630
COTTONSEED				3,448,210	5,233,550	5,492,100
ALL HAY	5.59	5.51	4.34	141,093,540	135,444,490	115,046,440
ALFALFA	7.66	7.44	5.82	83,054,580	76,923,820	62,851,570
ALL OTHER	4.03	4.11	3.32	58,038,960	58,520,670	52,194,870
DRY EDIBLE BEANS	1.72	1.72	1.58	1,038,090	1,175,210	872,260
DRY EDIBLE PEAS	2.00	2.35	2.42	144,970	153,540	175,450
WRINKLED SEED PEAS				39,190	29,480	46,130
AUSTRIAN SEED PEAS	1.61	1.77	1.51	20,410	23,680	6,030
LENTILS	1.35	1.42	1.41	85,960	81,370	40,550
POTATOES						
WINTER	27.13	24.14	23.73	135,670	113,440	118,660
SPRING	29.29	24.59	28.35	899,110	803,950	907,280
SUMMER	24.66	25.43	24.53	949,230	1,032,650	915,080
FALL	34.38	35.33	32.49	14,413,850	15,534,220	13,933,500
TOTAL	33.23	33.77	31.55	16,397,860	17,484,260	15,874,520
SWEETPOTATOES	15.21	14.48	14.87	574,880	547,210	536,690
TOBACCO	2.24	2.27	2.39	527,950	540,080	611,500
SUGARBEETS	47.35	50.25	42.74	22,826,580	25,466,490	22,492,740
SUGARCANE FOR						
SUGAR AND SEED	85.34	79.53	80.59	27,497,680	26,506,120	27,530,340
PEPPERMINT OIL	.08	.08	.07	1,960	2,020	2,430
SPEARMINT OIL	.11	.10	.09	1,210	930	790
TARO (HAW)	14.35	14.30	15.40	2,870	2,860	3,080
COFFEE (HAW)	1.70	1.03	.96	1,360	820	860
HOPS	2.20	1.97	1.84	22,250	22,700	24,810

AREA HARVESTED, UNITED STATES, 1979-88

YEAR	CORN FOR GRAIN	SORGHUM FOR GRAIN	OATS	BARLEY	FEED GRAINS 1/	WHEAT		
						WINTER	DURUM	OTHER SPRING
1,000 ACRES								
1979	72,400	12,901	9,682	7,527	102,510	43,427	3,932	15,095
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	51,483	10,001	9,072	9,731	80,287	47,584	2,492	11,314
1984	71,915	15,355	8,163	11,231	106,664	51,513	3,219	12,196
1985	75,224	16,782	8,177	11,603	111,786	47,953	3,094	13,687
1986	69,159	13,859	6,860	12,007	101,885	43,205	2,877	14,641
1987	59,208	10,604	6,925	10,057	86,794	39,347	3,279	13,334
1988	58,164	9,052	5,590	7,535	80,341	39,785	2,847	10,542

YEAR	RICE	RYE	FOOD GRAINS 2/	SOYBEANS: FOR BEANS	FLAXSEED: FOR	CORN		SORGHUM	
						SILAGE	FORAGE	SILAGE	FORAGE
1,000 ACRES									
1979	2,869.0	850	66,173	70,343	878	7,989	388	764	1,211
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	896	64,455	62,525	580	7,814	300	639	747
1984	2,802.0	981	70,711	66,113	538	7,541		609	
1985	2,492.0	717	67,943	61,584	584	7,160		534	
1986	2,360.0	677	63,760	58,292	683	6,274		500	
1987	2,333.0	683	58,976	56,977	463	5,829		424	
1988	2,895.0	607	56,676	57,383	226	8,295		548	

YEAR	PEANUTS: FOR NUTS	SUNFLOWER: 3/	COTTON	ALL HAY	DRY EDIBLE BEANS	AUSTRIAN:		LENTILS
						DRY EDIBLE PEAS 4/	WINTER PEAS 5/	
1,000 ACRES								
1979	1,519.7	5,410	12,830.9	61,279	1,387.7			
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	59,717	1,138.7			
1984	1,531.0	3,692	10,379.1	61,445	1,460.3			
1985	1,467.4	2,844	10,229.0	60,423	1,481.4			
1986	1,537.2	1,955	8,468.4	62,419	1,495.0	179.0	31.5	158.0
1987	1,546.4	1,775	10,035.3	60,748	1,688.4	161.0	33.0	142.0
1988	1,617.6	1,806	11,890.8	65,559	1,366.0	179.0	10.0	71.0

YEAR	TARO	COFFEE	HOPS	PEPPERMINT	SPEARMINT
1979	.4	1.8	31.8	90.9	33.1
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	65.1	30.1
1986	.4	2.0	25.0	64.2	28.5
1987	.4	2.1	28.3	65.8	23.8
1988	.4	2.2	33.4	80.5	22.6

SEE FOOTNOTE AT END OF TABLE.

CONTINUED

AREA HARVESTED, UNITED STATES, 1979-88 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	1,242.5	102.4	789.2
1984	1,096.3	747.3	1,301.0	103.5	791.7
1985	1,102.5	770.0	1,361.1	105.3	688.0
1986	1,191.2	796.2	1,219.6	93.4	581.6
1987	1,252.4	823.6	1,279.3	93.3	587.1
1988	1,300.6	844.2	1,242.9	89.1	631.7

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, 1979-88

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	293,944
1984	345,110	334,723
1985	342,224	330,063
1986	327,301	311,519
1987	305,101	289,628
1988	308,344	290,077

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 PRODUCTION, UNITED STATES, 1979-88

YEAR	CORN FOR GRAIN	SORGHUM FOR GRAIN	OATS	BARLEY	FEED GRAINS 1/	RYE
	1,000 BUSHEL			1,000 TONS	1,000 BUSHEL	
1979	7,928,139	807,422	526,748	383,201	262,221	21,887
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	4,174,678	487,521	476,961	508,925	150,387	27,116
1984	7,674,020	866,421	473,661	599,204	261,092	32,463
1985	8,876,706	1,120,271	520,800	591,383	302,441	20,637
1986	8,249,864	938,124	386,356	610,522	278,098	19,522
1987	7,072,073	739,249	374,000	529,530	237,410	19,818
1988	4,921,191	577,551	218,773	290,505	164,437	15,047

YEAR	WHEAT WINTER	DURUM	OTHER SPRING	ALL	RICE	FOOD GRAINS 2/	SOYBEANS
	1,000 BUSHEL				1,000 CWT	1,000 TONS	1,000 BUSHEL
1979	1,601,234	106,654	426,172	2,134,060	131,947	71,232	2,260,665
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	78,340	1,635,772
1984	2,060,266	103,439	431,072	2,594,777	138,810	85,693	1,860,863
1985	1,827,615	112,510	484,980	2,425,105	134,913	80,077	2,098,531
1986	1,521,498	97,907	472,230	2,091,635	133,356	69,963	1,940,101
1987	1,565,176	92,617	449,687	2,107,480	129,603	70,259	1,922,762
1988	1,560,970	44,831	205,460	1,811,261	159,547	62,736	1,538,666

YEAR	FLAXSEED	COTTON LINT 3/	SEED	HAY	CORN FOR SILAGE	SORGHUM FOR SILAGE	DRY EDIBLE BEANS
	1,000 BUSHEL	1,000 BALES	1,000 TONS	1,000 TONS	1,000 TONS	1,000 TONS	1,000 CWT
1979	12,014	14,629.3	5,778	147,307	114,799	8,990	20,552
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	140,764	96,347	6,572	15,520
1984	7,022	12,981.8	5,149	150,648	104,950	6,472	21,070
1985	8,293	13,432.2	5,279	148,601	102,752	6,566	22,175
1986	11,538	9,731.1	3,801	155,529	88,660	5,898	22,886
1987	7,444	14,759.9	5,769	149,302	84,468	5,157	25,909
1988	1,615	15,445.5	6,054	126,817	78,925	5,447	19,230

SEE FOOTNOTE AT END OF TABLE.

CONTINUED



AREA PLANTED AND HARVESTED, PRINCIPAL CROPS BY STATES, 1988  
WITH COMPARISONS \* 1/

STATE	AREA PLANTED			AREA HARVESTED		
	1986	1987	IND 1988	1986	1987	IND 1988
	1,000 ACRES			1,000 ACRES		
ALA	2,664	2,350	2,481	2,520	2,269	2,364
ARIZ	688	734	793	683	729	789
ARK	7,498	7,212	7,670	7,359	7,132	7,538
CALIF	5,487	5,431	5,520	5,070	4,990	5,075
COLO	6,345	5,883	5,750	6,167	5,654	5,609
CONN	146	145	135	140	140	128
DEL	548	542	516	536	531	504
FLA	1,267	1,140	1,136	1,224	1,113	1,096
GA	4,437	3,728	3,919	3,811	3,602	3,754
HAW	90	87	86	90	87	86
IDAHO	4,816	4,229	4,103	4,730	4,141	4,018
ILL	23,210	22,259	22,949	21,900	20,235	21,581
IND	12,051	11,152	11,511	11,660	10,586	11,086
IOWA	25,766	24,486	24,692	23,796	20,856	23,042
KANS	21,165	20,267	19,302	20,674	19,874	18,996
KY	5,219	5,002	5,149	5,131	4,937	5,014
LA	4,462	3,981	4,379	4,300	3,905	4,208
MAINE	400	379	374	385	369	364
MD	1,607	1,524	1,503	1,580	1,496	1,474
MASS	173	170	168	166	164	162
MICH	7,305	6,384	6,701	6,990	6,245	6,413
MINN	20,413	19,305	20,648	19,096	17,497	18,767
MISS	5,066	5,065	5,364	4,878	4,944	5,149
MO	13,611	12,601	13,003	13,202	12,409	12,799
MONT	9,855	9,673	8,342	9,415	9,242	7,118
NEBR	18,189	16,652	17,349	17,533	15,927	16,765
NEV	589	582	573	584	577	568
N H	115	110	107	112	108	105
N J	455	398	386	437	389	373
N MEX	1,218	1,008	940	1,179	974	912
N Y	3,929	3,642	3,491	3,855	3,570	3,448
N C	4,876	4,350	4,316	4,581	4,185	4,179
N DAK	21,428	20,203	19,798	20,571	19,510	16,236
OHIO	10,358	9,839	10,085	10,207	9,698	9,731
OKLA	8,845	8,525	8,660	8,568	8,357	8,447
OREG	2,770	2,408	2,263	2,711	2,345	2,198
PA	4,461	4,341	4,323	4,411	4,291	4,262
R I	15	13	12	15	13	11
S C	2,415	1,989	2,093	2,129	1,916	2,024
S DAK	16,818	15,167	15,191	15,966	14,761	13,538
TENN	4,658	4,532	4,747	4,586	4,462	4,635
TEX	20,343	17,650	17,986	17,749	16,267	16,525
UTAH	1,164	1,090	1,051	1,132	1,060	1,016
VT	542	508	501	530	497	491
VA	2,908	2,937	2,803	2,790	2,830	2,737
WASH	4,784	4,005	3,968	4,713	3,937	3,892
W VA	693	741	726	683	732	714
WIS	9,426	8,774	8,987	9,013	8,219	8,400
WYO	2,015	1,911	1,798	1,963	1,856	1,738
U S	327,301	305,101	308,344	311,519	289,628	290,077

\* 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 AHY, 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, SWEETPOTATOES, TOBACCO, SUGARCANE, AND SUGARBEETS.

CORN: ACREAGE

STATE	AREA PLANTED FOR ALL PURPOSES			AREA HARVESTED FOR GRAIN		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
ALA	340	300	240	270	250	170
ARIZ	37	29	24	24	20	17
ARK	90	70	65	80	65	60
CALIF	500	413	375	250	221	187
COLO	820	800	910	710	690	800
CONN	57	55	54	1/	1/	1/
DEL	180	165	150	169	148	140
FLA	200	130	100	160	105	65
GA	900	680	600	730	610	500
IDAHO	130	110	110	60	50	50
ILL	10,600	9,250	9,900	10,400	9,100	9,600
IND	5,850	4,800	5,200	5,700	4,680	5,000
IOWA	12,300	10,300	11,300	12,050	10,050	10,700
KANS	1,450	1,300	1,250	1,335	1,180	1,150
KY	1,730	1,300	1,300	1,520	1,140	1,100
LA	400	225	145	385	213	125
MAINE	41	37	35	1/	1/	1/
MD	700	560	520	580	460	420
MASS	43	40	39	1/	1/	1/
MICH	2,800	2,300	2,100	2,450	1,950	1,600
MINN	6,400	5,500	5,700	5,800	5,000	4,700
MISS	210	210	200	180	185	150
MO	2,550	2,250	2,200	2,420	2,150	2,020
MONT	80	80	90	13	15	20
NEBR	7,300	6,500	6,900	7,000	6,200	6,600
N H	28	25	23	1/	1/	1/
N J	135	115	100	104	95	84
N MEX	80	68	75	55	49	55
N Y	1,220	1,010	990	620	510	485
N C	1,600	1,300	1,050	1,360	1,150	930
N DAK	880	770	800	530	500	380
OHIO	3,900	3,200	3,300	3,720	3,020	3,000
OKLA	70	90	90	45	66	72
OREG	60	55	50	30	24	19
PA	1,670	1,550	1,480	1,240	1,060	910
R I	4	3	3	1/	1/	1/
S C	550	420	380	460	375	335
S DAK	3,300	3,100	3,150	2,850	2,750	2,400
TENN	910	730	680	770	580	530
TEX	1,400	1,300	1,500	1,330	1,250	1,350
UTAH	72	70	70	18	20	22
VT	102	98	96	1/	1/	1/
VA	730	550	530	400	300	295
WASH	170	120	120	120	80	80
W VA	95	85	85	70	50	40
WIS	3,900	3,550	3,450	3,100	2,800	1,950
WYO	90	91	90	51	47	53
U S	76,674	65,704	67,619	69,159	59,208	58,164

1/ NOT ESTIMATED.

CORN FOR GRAIN: YIELD AND PRODUCTION

STATE	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	BUSHEL			1,000 BUSHEL		
ALA	57.0	72.0	44.0	15,390	18,000	7,480
ARIZ	110.0	100.0	130.0	2,640	2,000	2,210
ARK	106.0	115.0	100.0	8,480	7,475	6,000
CALIF	152.0	160.0	145.0	38,000	35,360	27,115
COLO	140.0	155.0	160.0	99,400	106,950	128,000
DEL	83.0	73.0	70.0	14,027	10,804	9,800
FLA	62.0	72.0	58.0	9,920	7,560	3,770
GA	58.0	84.0	62.0	42,340	51,240	31,000
IDAHO	130.0	130.0	130.0	7,800	6,500	6,500
ILL	135.0	132.0	73.0	1,404,000	1,201,200	700,800
IND	122.0	135.0	83.0	695,400	631,800	415,000
IOWA	135.0	130.0	84.0	1,626,750	1,306,500	898,800
KANS	136.0	120.0	125.0	181,560	141,600	143,750
KY	92.0	104.0	73.0	139,840	118,560	80,300
LA	116.0	105.0	95.0	44,660	22,365	11,875
MD	73.0	78.0	65.0	42,340	35,880	27,300
MICH	105.0	95.0	70.0	257,250	185,250	112,000
MINN	122.0	127.0	74.0	707,600	635,000	347,800
MISS	75.0	80.0	60.0	13,500	14,800	9,000
MO	116.0	113.0	76.0	280,720	242,950	153,520
MONT	115.0	105.0	110.0	1,495	1,575	2,200
NEBR	128.0	131.0	124.0	896,000	812,200	818,400
N J	107.0	110.0	70.0	11,128	10,450	5,880
N MEX	150.0	155.0	155.0	8,250	7,595	8,525
N Y	99.0	109.0	85.0	61,380	55,590	41,225
N C	69.0	60.0	84.0	93,840	69,000	78,120
N DAK	93.0	93.0	58.0	49,290	46,500	22,040
OHIO	128.0	120.0	85.0	476,160	362,400	255,000
OKLA	116.0	107.0	95.0	5,220	7,062	6,840
OREG	160.0	165.0	158.0	4,800	3,960	3,002
PA	103.0	90.0	65.0	127,720	95,400	59,150
S C	46.0	78.0	58.0	21,160	29,250	19,430
S DAK	82.0	83.0	55.0	233,700	228,250	132,000
TENN	74.0	91.0	73.0	56,980	52,780	38,690
TEX	112.0	107.0	96.0	148,960	133,750	129,600
UTAH	125.0	140.0	124.0	2,250	2,800	2,728
VA	54.0	63.0	79.0	21,600	18,900	23,305
WASH	170.0	170.0	170.0	20,400	13,600	13,600
W VA	90.0	72.0	58.0	6,300	3,600	2,320
WIS	118.0	118.0	67.0	365,800	330,400	130,650
WYO	114.0	111.0	122.0	5,814	5,217	6,466
U S	119.3	119.4	84.6	8,249,864	7,072,073	4,921,191

CORN FOR SILAGE

STATE	AREA HARVESTED			YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
	1,000 ACRES			TONS			1,000 TONS		
ALA	25	22	20	9.0	10.0	8.0	225	220	160
ARIZ	13	9	7	25.0	23.0	27.0	325	207	189
ARK	9	4	4	14.0	10.0	8.0	126	40	32
CALIF	243	186	182	24.0	26.0	23.0	5,832	4,836	4,186
COLO	95	105	105	22.0	22.0	23.0	2,090	2,310	2,415
CONN	51	50	47	20.0	18.0	18.0	1,020	900	846
DEL	9	14	8	11.0	9.0	13.0	99	126	104
FLA	15	10	12	13.0	13.5	13.0	195	135	156
GA	40	40	50	9.0	10.5	8.5	360	420	425
IDAHO	69	48	58	23.0	22.0	23.0	1,587	1,056	1,334
ILL	160	140	260	16.0	15.5	7.5	2,560	2,170	1,950
IND	120	110	150	17.0	18.0	11.5	2,040	1,980	1,725
IOWA	200	220	550	17.0	16.0	9.0	3,400	3,520	4,950
KANS	95	100	95	16.0	15.0	14.0	1,520	1,500	1,330
KY	190	150	160	14.0	15.0	10.5	2,660	2,250	1,680
LA	10	10	12	12.0	13.0	14.0	120	130	168
MAINE	34	32	29	14.0	16.0	17.0	476	512	493
MD	115	95	95	9.0	12.0	10.0	1,035	1,140	950
MASS	36	34	33	18.0	18.5	19.5	648	629	644
MICH	320	330	450	13.5	13.0	7.5	4,320	4,290	3,375
MINN	450	430	850	13.5	13.5	6.2	6,075	5,805	5,270
MISS	20	19	35	12.0	13.0	10.0	240	247	350
MO	80	80	150	13.5	14.0	8.0	1,080	1,120	1,200
MONT	63	64	67	19.0	18.0	19.0	1,197	1,152	1,273
NEBR	200	225	245	15.5	17.0	14.0	3,100	3,825	3,430
N H	25	23	21	18.5	19.0	19.0	463	437	399
N J	27	19	14	15.5	15.0	10.0	419	285	140
N MEX	22	16	17	20.0	20.0	20.0	440	320	340
N Y	570	480	500	14.0	15.0	13.0	7,980	7,200	6,500
N C	130	105	105	7.5	11.0	10.0	975	1,155	1,050
N DAK	300	230	300	7.5	7.5	3.0	2,250	1,725	900
OHIO	160	160	250	17.0	16.0	10.5	2,720	2,560	2,625
OKLA	15	23	13	17.0	16.0	14.0	255	368	182
OREG	29	30	29	24.0	24.0	22.0	696	720	638
PA	420	480	550	15.0	14.5	10.0	6,300	6,960	5,500
R I	4	3	2	19.0	15.0	19.0	76	45	38
S C	45	32	31	7.0	12.0	8.5	315	384	264
S DAK	370	320	670	7.5	7.3	3.8	2,775	2,336	2,546
TENN	130	140	125	12.0	13.0	10.0	1,560	1,820	1,250
TEX	55	40	70	18.5	19.0	13.0	1,018	760	910
UTAH	52	47	47	19.5	21.0	20.0	1,014	987	940
VT	90	87	86	14.0	16.0	16.0	1,260	1,392	1,376
VA	300	225	230	10.0	9.5	12.0	3,000	2,138	2,760
WASH	50	40	40	24.0	25.0	25.0	1,200	1,000	1,000
W VA	22	31	37	14.0	11.5	8.5	308	357	315
WIS	760	730	1,450	14.0	14.0	6.9	10,640	10,220	10,005
WYO	36	41	34	18.5	19.0	18.0	666	779	612
U S	6,274	5,829	8,295	14.1	14.5	9.5	88,660	84,468	78,925

SORGHUM: ACREAGE

STATE	AREA PLANTED FOR ALL PURPOSES			AREA HARVESTED FOR GRAIN		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
ALA	140	60	40	100	40	25
ARIZ	15	14	5	12	11	4
ARK	675	420	360	660	405	310
CALIF	30	25	20	26	20	15
COLO	380	400	270	300	230	180
GA	155	110	85	82	60	40
ILL	230	150	90	200	140	80
KANS	4,500	4,100	3,600	4,150	3,750	3,300
KY	60	30	15	57	26	10
LA	370	190	105	350	172	90
MISS	250	160	165	240	145	155
MO	1,200	720	500	1,140	700	470
NEBR	1,700	1,450	1,600	1,530	1,300	1,360
N MEX	250	165	160	230	140	145
N C	85	70	100	40	45	65
OKLA	550	450	410	490	410	360
S C	66	40	28	32	15	8
S DAK	450	360	460	305	270	250
TENN	180	90	45	165	75	35
TEX	4,050	2,800	2,300	3,750	2,650	2,150
U S	15,336	11,804	10,358	13,859	10,604	9,052

SORGHUM FOR GRAIN: YIELD AND PRODUCTION

STATE	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	BUSHEL			1,000 BUSHEL		
ALA	40.0	48.0	41.0	4,000	1,920	1,025
ARIZ	87.0	90.0	100.0	1,044	990	400
ARK	62.0	68.0	68.0	40,920	27,540	21,080
CALIF	85.0	90.0	80.0	2,210	1,800	1,200
COLO	39.0	43.0	46.0	11,700	9,890	8,280
GA	33.0	40.0	35.0	2,706	2,400	1,400
ILL	95.0	86.0	75.0	19,000	12,040	6,000
KANS	75.0	73.0	62.0	311,250	273,750	204,600
KY	75.0	70.0	55.0	4,275	1,820	550
LA	68.0	72.0	68.0	23,800	12,384	6,120
MISS	60.0	65.0	56.0	14,400	9,425	8,680
MO	81.0	85.0	81.0	92,340	59,500	38,070
NEBR	89.0	84.0	76.0	136,170	109,200	103,360
N MEX	45.0	57.0	60.0	10,350	7,980	8,700
N C	35.0	43.0	42.0	1,400	1,935	2,730
OKLA	47.0	46.0	45.0	23,030	18,860	16,200
S C	32.0	37.0	32.0	1,024	555	256
S DAK	46.0	53.0	44.0	14,030	14,310	11,000
TENN	65.0	80.0	70.0	10,725	6,000	2,450
TEX	57.0	63.0	63.0	213,750	166,950	135,450
U S	67.7	69.7	63.8	938,124	739,249	577,551

SORGHUM FOR SILAGE

STATE	AREA HARVESTED			YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
	1,000 ACRES			TONS			1,000 TONS		
ALA	15	10	6	9.5	9.5	9.0	143	95	54
ARIZ	3	3	1	19.0	18.0	17.0	57	54	17
ARK	7	5	4	10.0	10.0	8.0	70	50	32
CALIF	3	4	4	20.0	21.0	19.5	60	84	78
COLO	19	18	22	13.0	15.0	13.0	247	270	286
GA	42	40	36	9.0	11.0	9.0	378	440	324
ILL	10	6	3	12.0	10.0	5.0	120	60	15
KANS	130	123	140	14.0	14.5	10.0	1,820	1,784	1,400
KY	2	3	4	12.0	12.0	10.0	24	36	40
LA	8	6	4	11.0	10.0	11.0	88	60	44
MISS	5	12	5	12.0	15.0	9.0	60	180	45
MO	10	10	10	11.5	12.0	8.5	115	120	85
NEBR	90	50	100	14.5	12.5	13.5	1,305	625	1,350
N MEX	3	3	2	12.0	13.0	14.0	36	39	28
N C	28	21	30	7.0	12.0	7.0	196	252	210
OKLA	23	15	14	13.0	13.0	12.0	299	195	168
S C	19	15	18	7.0	8.5	9.0	133	128	162
S DAK	60	50	120	7.6	7.3	6.8	456	365	816
TENN	8	10	8	12.0	10.0	9.0	96	100	72
TEX	15	20	17	13.0	11.0	13.0	195	220	221
U S	500	424	548	11.8	12.2	9.9	5,898	5,157	5,447

OATS: ACREAGE

STATE	AREA PLANTED 1/			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
ALA	60	45	35	30	25	20
ARK	43	22	40	33	18	35
CALIF	360	380	365	45	40	35
COLO	90	100	110	40	50	60
GA	60	55	80	35	30	45
IDAHO	60	65	70	30	36	45
ILL	1,400	2,100	1,400	200	190	180
IND	400	600	350	90	95	75
IOWA	2,500	4,200	2,100	630	650	550
KANS	280	240	225	200	155	150
KY	35	27	30	6	7	8
MAINE	47	42	42	40	38	39
MD	19	21	20	15	19	17
MICH	330	350	300	270	300	200
MINN	1,600	2,100	1,700	850	800	750
MO	190	180	120	100	90	40
MONT	200	235	210	90	110	90
NEBR	760	810	650	360	360	320
N J	6	6	6	4	5	4
N Y	230	250	180	190	200	145
N C	100	105	100	55	60	55
N DAK	1,050	1,050	1,100	700	700	400
OHIO	260	350	300	160	250	200
OKLA	200	160	140	100	60	65
OREG	120	90	95	80	65	65
PA	290	290	290	260	260	260
S C	55	60	85	28	33	48
S DAK	1,500	1,400	1,400	1,050	1,150	800
TEX	1,000	1,100	1,100	200	220	200
UTAH	27	28	32	12	14	14
VA	40	35	35	10	7	12
WASH	70	75	80	33	35	37
W VA	17	13	10	10	8	6
WIS	1,200	1,300	1,050	850	800	580
WYO	92	75	77	54	45	40
U S	14,691	17,959	13,927	6,860	6,925	5,590

1/ INCLUDES AREA PLANTED IN PRECEDING FALL.

OATS: YIELD AND PRODUCTION

STATE	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	BUSHEL			1,000 BUSHEL		
ALA	40.0	50.0	55.0	1,200	1,250	1,100
ARK	67.0	70.0	90.0	2,211	1,260	3,150
CALIF	70.0	70.0	70.0	3,150	2,800	2,450
COLO	55.0	54.0	50.0	2,200	2,700	3,000
GA	39.0	55.0	63.0	1,365	1,650	2,835
IDAHO	69.0	75.0	68.0	2,070	2,700	3,060
ILL	72.0	69.0	51.0	14,400	13,110	9,180
IND	71.0	67.0	40.0	6,390	6,365	3,000
IOWA	62.0	55.0	48.0	39,060	35,750	26,400
KANS	54.0	42.0	39.0	10,800	6,510	5,850
KY	42.0	52.0	50.0	252	364	400
MAINE	65.0	75.0	75.0	2,600	2,850	2,925
MD	55.0	52.0	52.0	825	988	884
MICH	63.0	57.0	30.0	17,010	17,100	6,000
MINN	51.0	57.0	33.0	43,350	45,600	24,750
MO	50.0	38.0	36.0	5,000	3,420	1,440
MONT	46.0	55.0	31.0	4,140	6,050	2,790
NEBR	59.0	49.0	38.0	21,240	17,640	12,160
N J	54.0	52.0	50.0	216	260	200
N Y	68.0	60.0	52.0	12,920	12,000	7,540
N C	40.0	59.0	65.0	2,200	3,540	3,575
N DAK	55.0	52.0	18.0	38,500	36,400	7,200
OHIO	76.0	70.0	45.0	12,160	17,500	9,000
OKLA	44.0	38.0	45.0	4,400	2,280	2,925
OREG	95.0	80.0	100.0	7,600	5,200	6,500
PA	62.0	57.0	50.0	16,120	14,820	13,000
S C	36.0	51.0	61.0	1,008	1,683	2,928
S DAK	44.0	46.0	25.0	46,200	52,900	20,000
TEX	42.0	45.0	45.0	8,400	9,900	9,000
UTAH	72.0	69.0	72.0	864	966	1,008
VA	46.0	47.0	53.0	460	329	636
WASH	65.0	66.0	67.0	2,145	2,310	2,479
W VA	50.0	50.0	48.0	500	400	288
WIS	62.0	54.0	34.0	52,700	43,200	19,720
WYO	50.0	49.0	35.0	2,700	2,205	1,400
U S	56.3	54.0	39.1	386,356	374,000	218,773

BARLEY: ACREAGE

STATE	AREA PLANTED 1/			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
ARIZ	32	25	15	29	22	13
CALIF	470	400	360	400	330	280
COLO	390	230	185	350	220	175
DEL	55	55	35	50	52	30
IDAHO	1,140	840	880	1,110	820	850
KANS	350	140	100	290	120	85
KY	25	15	16	17	11	14
MD	90	100	80	82	89	69
MICH	60	55	50	55	50	38
MINN	1,200	1,200	1,250	1,000	870	850
MONT	2,400	2,300	1,800	2,180	2,100	1,250
NEBR	150	90	70	135	75	60
NEV	36	36	34	33	33	31
N J	29	20	16	20	15	9
N MEX	22	15	11	16	11	7
N C	53	46	48	45	40	42
N DAK	3,600	3,000	2,600	3,450	2,900	2,000
OKLA	50	35	25	35	25	20
OREG	375	250	225	365	220	200
PA	70	65	60	65	60	55
S C	24	15	17	21	13	14
S DAK	930	870	700	855	850	450
TEX	70	65	35	35	30	18
UTAH	165	152	139	152	142	125
VA	90	100	95	72	78	75
WASH	920	660	580	900	645	560
WIS	95	110	100	85	88	75
WYO	168	157	150	160	148	140
U S	13,059	11,046	9,676	12,007	10,057	7,535

1/ INCLUDES AREA PLANTED IN PRECEDING FALL.

BARLEY: YIELD AND PRODUCTION

STATE	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	BUSHEL			1,000 BUSHEL		
ARIZ	100.0	99.0	104.0	2,900	2,178	1,352
CALIF	59.0	54.0	61.0	23,600	17,820	17,080
COLO	60.0	66.0	67.0	21,000	14,520	11,725
DEL	61.0	62.0	72.0	3,050	3,224	2,160
IDAHO	65.0	75.0	60.0	72,150	61,500	51,000
KANS	36.0	40.0	35.0	10,440	4,800	2,975
KY	31.0	67.0	77.0	527	737	1,078
MD	60.0	67.0	69.0	4,920	5,963	4,761
MICH	59.0	55.0	32.0	3,245	2,750	1,216
MINN	55.0	57.0	32.0	55,000	49,590	27,200
MONT	39.0	45.0	24.0	85,020	94,500	30,000
NEBR	40.0	36.0	32.0	5,400	2,700	1,920
NEV	90.0	90.0	80.0	2,970	2,970	2,480
N J	62.0	60.0	67.0	1,240	900	603
N MEX	65.0	70.0	65.0	1,040	770	455
N C	36.0	62.0	65.0	1,620	2,480	2,730
N DAK	51.0	48.0	21.0	175,950	139,200	42,000
OKLA	36.0	30.0	48.0	1,260	750	960
OREG	57.0	70.0	74.0	20,805	15,400	14,800
PA	60.0	57.0	66.0	3,900	3,420	3,630
S C	28.0	49.0	60.0	588	637	840
S DAK	42.0	40.0	18.0	35,910	34,000	8,100
TEX	50.0	40.0	30.0	1,750	1,200	540
UTAH	76.0	83.0	77.0	11,552	11,786	9,625
VA	55.0	66.0	71.0	3,960	5,148	5,325
WASH	50.0	55.0	62.0	45,000	35,475	34,720
WIS	57.0	54.0	34.0	4,845	4,752	2,550
WYO	68.0	70.0	62.0	10,880	10,360	8,680
U S	50.8	52.7	38.6	610,522	529,530	290,505

ALL WHEAT: ACREAGE

STATE	AREA PLANTED			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
ALA	340	250	270	220	170	200
ARIZ	98	91	87	96	89	85
ARK	885	930	1,120	815	840	1,070
CALIF	730	620	560	675	567	519
COLO	3,360	3,160	2,554	2,955	2,555	2,352
DEL	40	50	65	34	48	63
FLA	120	80	75	100	60	55
GA	640	550	575	550	460	500
IDAHO	1,430	1,210	1,220	1,310	1,140	1,150
ILL	1,300	1,100	1,300	820	950	1,250
IND	900	750	840	700	600	700
IOWA	90	90	60	60	30	35
KANS	11,500	10,700	10,200	10,200	9,900	9,500
KY	440	500	550	270	330	380
LA	240	240	300	210	170	270
MD	160	175	180	145	165	170
MICH	750	450	650	680	400	620
MINN	2,965	2,580	2,520	2,814	2,519	2,250
MISS	250	400	500	200	350	450
MO	1,050	900	1,650	570	770	1,550
MONT	5,015	4,895	4,730	4,760	4,690	3,830
NEBR	2,300	2,200	2,300	2,000	1,950	2,000
NEV	25	24	22	22	21	19
N J	40	30	35	30	27	31
N MEX	740	660	520	460	340	290
N Y	165	90	95	155	80	90
N C	525	490	510	460	440	480
N DAK	9,620	9,300	9,250	9,380	9,135	7,230
OHIO	1,150	850	1,000	1,050	800	920
OKLA	7,400	7,200	7,000	5,200	4,800	4,800
OREG	1,070	845	800	1,025	810	755
PA	230	190	175	220	185	170
S C	325	290	320	300	275	305
S DAK	4,065	3,660	3,650	3,840	3,528	2,638
TENN	430	440	530	325	350	430
TEX	8,100	6,800	6,300	4,800	3,600	3,200
UTAH	270	212	184	258	199	177
VA	220	275	230	170	215	200
WASH	2,570	2,100	2,170	2,410	2,015	2,060
W VA	11	13	11	9	11	9
WIS	160	115	150	148	88	133
WYO	349	329	271	277	288	238
U S	72,068	65,834	65,529	60,723	55,960	53,174

1/ INCLUDES AREA PLANTED IN PRECEDING FALL.

ALL WHEAT: YIELD AND PRODUCTION

STATE	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	BUSHEL			1,000 BUSHEL		
ALA	26.0	31.0	43.0	5,720	5,270	8,600
ARIZ	90.5	89.9	90.9	8,688	8,005	7,730
ARK	41.0	41.0	53.0	33,415	34,440	56,710
CALIF	76.3	77.4	84.4	51,525	43,890	43,785
COLO	32.6	38.1	33.8	96,430	97,380	79,540
DEL	45.0	42.0	52.0	1,530	2,016	3,276
FLA	31.0	30.0	37.0	3,100	1,800	2,035
GA	28.0	31.0	43.0	15,400	14,260	21,500
IDAHO	62.4	75.0	65.7	81,750	85,500	75,520
ILL	44.0	59.0	54.0	36,080	56,050	67,500
IND	43.0	58.0	50.0	30,100	34,800	35,000
IOWA	28.0	38.0	30.0	1,680	1,140	1,050
KANS	33.0	37.0	34.0	336,600	366,300	323,000
KY	33.0	49.0	54.0	8,910	16,170	20,520
LA	35.0	31.0	41.0	7,350	5,270	11,070
MD	47.0	49.0	53.0	6,815	8,085	9,010
MICH	45.0	48.0	42.0	30,600	19,200	26,040
MINN	36.8	40.7	23.0	103,666	102,588	51,730
MISS	31.0	36.0	46.0	6,200	12,600	20,700
MO	33.0	46.0	50.0	18,810	35,420	77,500
MONT	29.1	32.2	15.7	138,520	151,220	59,970
NEBR	38.0	44.0	36.0	76,000	85,800	72,000
NEV	78.2	80.0	70.5	1,720	1,680	1,340
N J	43.0	45.0	45.0	1,290	1,215	1,395
N MEX	22.0	32.0	24.0	10,120	10,880	6,960
N Y	49.0	47.0	55.0	7,595	3,760	4,950
N C	33.0	41.0	50.0	15,180	18,040	24,000
N DAK	31.2	29.5	14.3	292,320	269,120	103,390
OHIO	46.0	58.0	50.0	48,300	46,400	46,000
OKLA	29.0	27.0	36.0	150,800	129,600	172,800
OREG	57.0	65.3	68.6	58,405	52,920	51,800
PA	44.0	43.0	53.0	9,680	7,955	9,010
S C	25.0	38.0	46.0	7,500	10,450	14,030
S DAK	28.3	30.2	14.4	108,660	106,704	38,006
TENN	33.0	41.0	50.0	10,725	14,350	21,500
TEX	25.0	28.0	28.0	120,000	100,800	89,600
UTAH	37.8	45.0	38.2	9,750	8,963	6,768
VA	41.0	45.0	52.0	6,970	9,675	10,400
WASH	48.5	56.7	60.5	116,850	114,285	124,620
W VA	44.0	45.0	46.0	396	495	414
WIS	54.3	47.3	38.7	8,040	4,164	5,152
WYO	30.5	30.6	22.4	8,445	8,820	5,340
U S	34.4	37.7	34.1	2,091,635	2,107,480	1,811,261

WINTER WHEAT: ACREAGE

STATE	AREA PLANTED 1/			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
ALA	340	250	270	220	170	200
ARIZ	49	45	36	48	44	35
ARK	885	930	1,120	815	840	1,070
CALIF	650	560	500	600	510	460
COLO	3,300	3,100	2,500	2,900	2,500	2,300
DEL	40	50	65	34	48	63
FLA	120	80	75	100	60	55
GA	640	550	575	550	460	500
IDAHO	950	860	820	850	800	770
ILL	1,300	1,100	1,300	820	950	1,250
IND	900	750	840	700	600	700
IOWA	90	90	60	60	30	35
KANS	11,500	10,700	10,200	10,200	9,900	9,500
KY	440	500	550	270	330	380
LA	240	240	300	210	170	270
MD	160	175	180	145	165	170
MICH	750	450	650	680	400	620
MINN	180	100	75	130	90	60
MISS	250	400	500	200	350	450
MO	1,050	900	1,650	570	770	1,550
MONT	2,150	2,300	2,450	2,000	2,200	2,100
NEBR	2,300	2,200	2,300	2,000	1,950	2,000
NEV	10	8	8	9	7	7
N J	40	30	35	30	27	31
N MEX	740	660	520	460	340	290
N Y	165	90	95	155	80	90
N C	525	490	510	460	440	480
N DAK	520	200	250	480	185	130
OHIO	1,150	850	1,000	1,050	800	920
OKLA	7,400	7,200	7,000	5,200	4,800	4,800
OREG	970	780	700	930	750	660
PA	230	190	175	220	185	170
S C	325	290	320	300	275	305
S DAK	1,900	1,700	1,700	1,800	1,620	1,270
TENN	430	440	530	325	350	430
TEX	8,100	6,800	6,300	4,800	3,600	3,200
UTAH	235	180	160	225	170	155
VA	220	275	230	170	215	200
WASH	2,250	1,900	1,850	2,100	1,825	1,750
W VA	11	13	11	9	11	9
WIS	140	85	140	130	60	125
WYO	320	300	250	250	270	225
U S	53,965	48,811	48,800	43,205	39,347	39,785

1/ AREA PLANTED IN PRECEDING FALL.

WINTER WHEAT: YIELD AND PRODUCTION

STATE	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	BUSHEL			1,000 BUSHEL		
ALA	26.0	31.0	43.0	5,720	5,270	8,600
ARIZ	94.0	95.0	98.0	4,512	4,180	3,430
ARK	41.0	41.0	53.0	33,415	34,440	56,710
CALIF	75.0	76.0	83.0	45,000	38,760	38,180
COLO	32.0	37.5	33.0	92,800	93,750	75,900
DEL	45.0	42.0	52.0	1,530	2,016	3,276
FLA	31.0	30.0	37.0	3,100	1,800	2,035
GA	28.0	31.0	43.0	15,400	14,260	21,500
IDAHO	61.0	75.0	66.0	51,850	60,000	50,820
ILL	44.0	59.0	54.0	36,080	56,050	67,500
IND	43.0	58.0	50.0	30,100	34,800	35,000
IOWA	28.0	38.0	30.0	1,680	1,140	1,050
KANS	33.0	37.0	34.0	336,600	366,300	323,000
KY	33.0	49.0	54.0	8,910	16,170	20,520
LA	35.0	31.0	41.0	7,350	5,270	11,070
MD	47.0	49.0	53.0	6,815	8,085	9,010
MICH	45.0	48.0	42.0	30,600	19,200	26,040
MINN	33.0	33.0	24.0	4,290	2,970	1,440
MISS	31.0	36.0	46.0	6,200	12,600	20,700
MO	33.0	46.0	50.0	18,810	35,420	77,500
MONT	32.0	36.0	19.0	64,000	79,200	39,900
NEBR	38.0	44.0	36.0	76,000	85,800	72,000
NEV	90.0	90.0	80.0	810	630	560
N J	43.0	45.0	45.0	1,290	1,215	1,395
N MEX	22.0	32.0	24.0	10,120	10,880	6,960
N Y	49.0	47.0	55.0	7,595	3,760	4,950
N C	33.0	41.0	50.0	15,180	18,040	24,000
N DAK	29.0	32.0	13.0	13,920	5,920	1,690
OHIO	46.0	58.0	50.0	48,300	46,400	46,000
OKLA	29.0	27.0	36.0	150,800	129,600	172,800
OREG	58.0	66.0	71.0	53,940	49,500	46,860
PA	44.0	43.0	53.0	9,680	7,955	9,010
S C	25.0	38.0	46.0	7,500	10,450	14,030
S DAK	32.0	34.0	17.0	57,600	55,080	21,590
TENN	33.0	41.0	50.0	10,725	14,350	21,500
TEX	25.0	28.0	28.0	120,000	100,800	89,600
UTAH	36.0	43.0	36.0	8,100	7,310	5,580
VA	41.0	45.0	52.0	6,970	9,675	10,400
WASH	49.0	57.0	62.0	102,900	104,025	108,500
W VA	44.0	45.0	46.0	396	495	414
WIS	57.0	54.0	40.0	7,410	3,240	5,000
WYO	30.0	31.0	22.0	7,500	8,370	4,950
U S	35.2	39.8	39.2	1,521,498	1,565,176	1,560,970

DURUM WHEAT

STATE	AREA PLANTED			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
ARIZ	49	46	51	48	45	50
CALIF	80	60	60	75	57	59
MINN	35	30	45	34	29	40
MONT	165	195	280	160	190	230
N DAK	2,600	2,900	2,800	2,500	2,850	2,400
S DAK	65	110	100	60	108	68
U S	2,994	3,341	3,336	2,877	3,279	2,847
	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	BUSHEL			1,000 BUSHEL		
ARIZ	87.0	85.0	86.0	4,176	3,825	4,300
CALIF	87.0	90.0	95.0	6,525	5,130	5,605
MINN	39.0	42.0	21.0	1,326	1,218	840
MONT	27.0	28.0	9.0	4,320	5,320	2,070
N DAK	32.0	26.0	13.0	80,000	74,100	31,200
S DAK	26.0	28.0	12.0	1,560	3,024	816
U S	34.0	28.2	15.7	97,907	92,617	44,831

WHEAT PRODUCTION BY CLASSES, UNITED STATES 1/

YEAR	WINTER			SPRING			TOTAL
	HARD RED	SOFT RED	WHITE	HARD RED	DURUM	WHITE	
	1,000 BUSHEL						
1986	1,017,831	292,450	211,217	451,417	97,907	20,813	2,091,635
1987	1,020,772	347,742	196,662	430,578	92,617	19,109	2,107,480
1988	880,134	473,643	207,193	181,202	44,831	24,258	1,811,261

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		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
COLO	60	60	54	55	55	52
IDAHO	480	350	400	460	340	380
MINN	2,750	2,450	2,400	2,650	2,400	2,150
MONT	2,700	2,400	2,000	2,600	2,300	1,500
NEV	15	16	14	13	14	12
N DAK	6,500	6,200	6,200	6,400	6,100	4,700
OREG	100	65	100	95	60	95
S DAK	2,100	1,850	1,850	1,980	1,800	1,300
UTAH	35	32	24	33	29	22
WASH	320	200	320	310	190	310
WIS	20	30	10	18	28	8
WYO	29	29	21	27	18	13
U S	15,109	13,682	13,393	14,641	13,334	10,542
	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	BUSHEL			1,000 BUSHEL		
COLO	66.0	66.0	70.0	3,630	3,630	3,640
IDAHO	65.0	75.0	65.0	29,900	25,500	24,700
MINN	37.0	41.0	23.0	98,050	98,400	49,450
MONT	27.0	29.0	12.0	70,200	66,700	18,000
NEV	70.0	75.0	65.0	910	1,050	780
N DAK	31.0	31.0	15.0	198,400	189,100	70,500
OREG	47.0	57.0	52.0	4,465	3,420	4,940
S DAK	25.0	27.0	12.0	49,500	48,600	15,600
UTAH	50.0	57.0	54.0	1,650	1,653	1,188
WASH	45.0	54.0	52.0	13,950	10,260	16,120
WIS	35.0	33.0	19.0	630	924	152
WYO	35.0	25.0	30.0	945	450	390
U S	32.3	33.7	19.5	472,230	449,687	205,460

WHEAT CLASS PERCENTAGE BREAKDOWN BY STATES

THE FOLLOWING PERCENTAGES ARE THE BASIS FOR THE U.S. WHEAT PRODUCTION CLASS BREAKDOWN. 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. THE CURRENT YEAR PERCENTS ARE USED FOR END-OF-YEAR PRODUCTION BREAKDOWNS AND NEXT YEAR'S FORECAST SEASON.

WHEAT--PERCENTAGE BREAKDOWN, BY CLASSES, BY STATES

STATE	WINTER					OTHER SPRING (EXCLUDING DURUM)				
	HARD RED		SOFT RED		WHITE		HARD RED		WHITE	
	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988
	PERCENT									
ALA			100	100						
ARIZ	100	100								
ARK			100	100						
CALIF	97	93			3	7				
COLO	100	100					84	84	16	16
DEL			100	100						
FLA			100	100						
GA			100	100						
IDAHO	30	30			70	70	62	58	38	42
ILL	2	2	98	98						
IND			100	100						
IOWA	70	70	30	30						
KANS	100	100								
KY	3	3	97	97						
LA	2	2	98	98						
MD			100	100						
MICH			29	26	71	74				
MINN	100	100					100	100		
MISS			100	100						
MO	1	2	99	98						
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	2			98	98	33	15	67	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	17	10			83	90	50	50	50	50
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		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
	LONG GRAIN					
ARK	944.0	885.0	1,084.0	935.0	876.0	1,075.0
CALIF	20.0	36.0	50.0	20.0	36.0	50.0
LA	310.0	265.0	395.0	307.0	262.0	388.0
MISS	200.0	200.0	255.0	198.0	198.0	250.0
MO	66.0	64.0	81.0	65.0	63.0	80.0
TEX	282.0	264.0	382.0	281.0	263.0	380.0
U S	1,822.0	1,714.0	2,247.0	1,806.0	1,698.0	2,223.0
	MEDIUM GRAIN					
ARK	85.0	133.0	135.0	84.0	132.0	134.0
CALIF	288.0	299.0	330.0	285.0	295.0	325.0
LA	120.0	160.0	150.0	119.0	158.0	147.0
MISS	1/	1/	10.0	1/	1/	10.0
MO	2.0	3.0	2.0	2.0	3.0	2.0
TEX	8.0	6.0	8.0	8.0	6.0	8.0
U S	503.0	601.0	635.0	498.0	594.0	626.0
	SHORT GRAIN					
ARK	1.0	2.0	1.0	1.0	2.0	1.0
CALIF	55.0	39.0	45.0	55.0	39.0	45.0
U S	56.0	41.0	46.0	56.0	41.0	46.0
	ALL					
ARK	1,030.0	1,020.0	1,220.0	1,020.0	1,010.0	1,210.0
CALIF	363.0	374.0	425.0	360.0	370.0	420.0
LA	430.0	425.0	545.0	426.0	420.0	535.0
MISS	200.0	200.0	265.0	198.0	198.0	260.0
MO	68.0	67.0	83.0	67.0	66.0	82.0
TEX	290.0	270.0	390.0	289.0	269.0	388.0
U S	2,381.0	2,356.0	2,928.0	2,360.0	2,333.0	2,895.0

1/ NO MEDIUM GRAIN ESTIMATED.

RICE: YIELD AND PRODUCTION

STATE	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	POUNDS			1,000 CWT		
	LONG GRAIN					
ARK	5,290	5,170	5,340	49,462	45,259	57,447
CALIF	7,600	7,200	7,000	1,520	2,592	3,500
LA	4,580	4,610	4,520	14,061	12,079	17,538
MISS	5,400	5,100	5,310	10,692	10,098	13,275
MO	5,130	5,430	5,100	3,335	3,420	4,080
TEX	6,300	5,910	6,010	17,703	15,547	22,824
U S	5,358	5,241	5,338	96,773	88,995	118,664
	MEDIUM GRAIN					
ARK	5,410	5,800	5,400	4,544	7,656	7,236
CALIF	7,690	7,600	7,000	21,917	22,496	22,750
LA	4,470	4,450	4,450	5,319	7,031	6,542
MISS	1/	1/	5,050	1/	1/	505
MO	4,950	4,800	5,100	99	144	102
TEX	4,500	5,400	5,700	360	324	456
U S	6,474	6,339	6,005	32,239	37,651	37,591
	SHORT GRAIN					
ARK	5,400	5,500	5,200	54	110	52
CALIF	7,800	7,300	7,200	4,290	2,847	3,240
U S	7,757	7,212	7,157	4,344	2,957	3,292
	ALL					
ARK	5,300	5,250	5,350	54,060	53,025	64,735
CALIF	7,700	7,550	7,000	27,727	27,935	29,490
LA	4,550	4,550	4,500	19,380	19,110	24,080
MISS	5,400	5,100	5,300	10,692	10,098	13,780
MO	5,120	5,400	5,100	3,434	3,564	4,182
TEX	6,250	5,900	6,000	18,063	15,871	23,280
U S	5,651	5,555	5,511	133,356	129,603	159,547

1/ NO MEDIUM GRAIN ESTIMATED.

RYE

STATE	AREA PLANTED 1/			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
COLO	15	18	18	2	3	6
DEL	30	20	18	4	3	4
GA	425	380	350	85	70	70
ILL	45	65	60	7	6	5
IND	35	40	50	10	11	11
IOWA	20	25	30	4	4	5
KANS	64	35	40	10	10	5
KY	46	50	45	1	2	4
MD	46	55	58	9	8	10
MICH	145	115	135	23	20	25
MINN	100	75	75	50	40	40
MO	20	15	25	3	2	8
NEBR	140	200	250	45	50	55
N J	58	55	60	10	8	10
N Y	105	90	100	13	10	12
N C	160	150	160	35	30	35
N DAK	135	175	130	125	165	90
OHIO	40	50	40	5	5	5
OKLA	170	175	150	40	20	30
OREG	20	20	15	5	4	3
PA	75	85	100	18	18	22
S C	80	90	75	23	24	30
S DAK	130	150	120	120	140	90
TEX	100	140	150	10	10	10
VA	160	200	150	14	15	16
WIS	20	25	40	6	5	6
U S	2,384	2,498	2,444	677	683	607
	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	BUSHELS			1,000 BUSHELS		
COLO	21.0	24.0	25.0	42	72	150
DEL	34.0	33.0	31.0	136	99	124
GA	21.0	22.0	27.0	1,785	1,540	1,890
ILL	30.0	24.0	28.0	210	144	140
IND	28.0	27.0	30.0	280	297	330
IOWA	36.0	35.0	30.0	144	140	150
KANS	21.0	27.0	26.0	210	270	130
KY	28.0	36.0	26.0	28	72	104
MD	33.0	31.0	29.0	297	248	290
MICH	31.0	32.0	26.0	713	640	650
MINN	32.0	30.0	23.0	1,600	1,200	920
MO	20.0	18.0	32.0	60	36	256
NEBR	23.0	23.0	25.0	1,035	1,150	1,375
N J	31.0	29.0	31.0	310	232	310
N Y	33.0	30.0	33.0	429	300	396
N C	17.0	24.0	26.0	595	720	910
N DAK	34.0	31.0	15.0	4,250	5,115	1,350
OHIO	35.0	36.0	37.0	175	180	185
OKLA	21.0	18.0	24.0	840	360	720
OREG	40.0	30.0	25.0	200	120	75
PA	35.0	35.0	36.0	630	630	792
S C	17.0	22.0	24.0	391	528	720
S DAK	37.0	36.0	25.0	4,440	5,040	2,250
TEX	19.0	15.0	15.0	190	150	150
VA	26.0	29.0	35.0	364	435	560
WIS	28.0	20.0	20.0	168	100	120
U S	28.8	29.0	24.8	19,522	19,818	15,047

1/ AREA PLANTED IN PRECEDING FALL.

FLAXSEED

STATE	AREA PLANTED			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
1,000 ACRES						
MINN	35	15	15	34	14	11
N DAK	575	400	220	545	395	185
S DAK	110	55	40	104	54	30
U S	720	470	275	683	463	226
STATE	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
BUSHELS						
1,000 BUSHELS						
MINN	16.0	16.0	10.0	544	224	110
N DAK	17.5	16.5	7.0	9,538	6,518	1,295
S DAK	14.0	13.0	7.0	1,456	702	210
U S	16.9	16.1	7.1	11,538	7,444	1,615

PEANUTS FOR NUTS

STATE	AREA PLANTED			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
1,000 ACRES						
ALA	220.0	221.0	233.0	219.0	220.0	231.0
FLA	94.0	91.0	95.0	87.0	83.0	87.0
GA	675.0	635.0	690.0	665.0	630.0	685.0
N MEX	12.7	12.4	13.6	12.7	12.4	13.6
N C	145.0	150.0	155.0	143.0	148.0	153.0
OKLA	100.0	100.0	95.0	90.0	98.0	93.0
S C	12.0	13.0	14.0	11.5	13.0	14.0
TEX	225.0	254.0	260.0	220.0	252.0	250.0
VA	89.0	91.0	92.0	89.0	90.0	91.0
U S	1,572.7	1,567.4	1,647.6	1,537.2	1,546.4	1,617.6
STATE	YIELD			PRODUCTION 1/		
	1986	1987	1988	1986	1987	1988
POUNDS						
1,000 POUNDS						
ALA	2,260	2,115	2,450	494,940	465,300	565,950
FLA	2,680	2,600	2,700	233,160	215,800	234,900
GA	2,455	2,500	2,650	1,632,575	1,575,000	1,815,250
N MEX	2,260	2,700	2,450	28,700	33,480	33,320
N C	3,080	2,650	2,750	440,440	392,200	420,750
OKLA	2,050	2,270	2,400	184,500	222,460	223,200
S C	2,220	2,400	2,300	25,530	31,200	32,200
TEX	1,750	1,750	1,650	385,000	441,000	412,500
VA	3,100	2,700	3,000	275,900	243,000	273,000
U S	2,407	2,341	2,480	3,700,745	3,619,440	4,011,070

1/ ESTIMATES COMPRISED OF QUOTA AND NON-QUOTA PEANUTS.

SOYBEANS FOR BEANS

STATE	AREA PLANTED			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
1,000 ACRES						
ALA	650	500	590	610	480	570
ARK	3,400	3,300	3,250	3,300	3,250	3,200
DEL	245	240	230	240	235	225
FLA	150	95	120	140	93	115
GA	1,220	830	930	820	780	900
ILL	9,050	8,800	8,800	9,000	8,700	8,700
IND	4,300	4,400	4,300	4,250	4,350	4,200
IOWA	8,500	7,950	8,050	8,450	7,900	8,000
KANS	1,850	2,150	2,050	1,740	2,110	2,000
KY	1,150	990	980	1,120	960	910
LA	1,880	1,700	1,900	1,750	1,650	1,850
MD	400	420	465	390	410	455
MICH	970	1,100	1,250	930	1,090	1,210
MINN	4,750	4,700	4,900	4,650	4,650	4,800
MISS	2,600	2,550	2,400	2,450	2,450	2,250
MO	5,450	4,900	4,300	5,250	4,830	4,230
NEBR	2,500	2,400	2,400	2,450	2,350	2,360
N J	120	100	105	117	99	103
N C	1,640	1,400	1,470	1,530	1,340	1,410
N DAK	475	520	750	470	515	690
OHIO	3,650	4,000	3,900	3,620	3,980	3,700
OKLA	255	240	300	200	230	270
PA	160	170	230	155	165	225
S C	1,020	750	800	830	730	790
S DAK	1,350	1,400	1,760	1,330	1,390	1,730
TENN	1,470	1,300	1,400	1,420	1,250	1,320
TEX	240	170	240	190	150	225
VA	610	550	570	570	520	555
WIS	330	330	430	320	320	390
U S	60,385	57,955	58,870	58,292	56,977	57,383
	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
BUSHELS						
1,000 BUSHELS						
ALA	23.0	16.5	25.0	14,030	7,920	14,250
ARK	20.0	22.0	25.0	66,000	71,500	80,000
DEL	24.0	18.0	27.0	5,760	4,230	6,075
FLA	23.0	25.0	29.0	3,220	2,325	3,335
GA	17.0	20.0	25.0	13,940	15,600	22,500
ILL	40.0	38.0	27.0	360,000	330,600	234,900
IND	37.0	40.0	27.5	157,250	174,000	115,500
IOWA	41.5	43.5	31.0	350,675	343,650	248,000
KANS	33.5	32.0	23.0	58,290	67,520	46,000
KY	32.0	25.0	26.5	35,840	24,000	24,115
LA	20.0	23.5	27.5	35,000	38,775	50,875
MD	27.0	22.5	31.0	10,530	9,225	14,105
MICH	31.0	35.0	28.0	28,830	38,150	33,880
MINN	35.0	39.0	26.0	162,750	181,350	124,800
MISS	17.0	19.5	22.0	41,650	47,775	49,500
MO	32.5	32.0	26.0	170,625	154,560	109,980
NEBR	38.0	35.5	30.0	93,100	83,425	70,800
N J	28.0	31.0	27.0	3,276	3,069	2,781
N C	24.0	24.5	27.0	36,720	32,830	38,070
N DAK	35.0	32.5	18.0	16,450	16,738	12,420
OHIO	40.5	37.0	27.0	146,610	147,260	99,900
OKLA	24.0	25.0	18.0	4,800	5,750	4,860
PA	35.0	34.0	32.0	5,425	5,610	7,200
S C	16.5	21.5	23.0	13,695	15,695	18,170
S DAK	30.5	32.5	24.0	40,565	45,175	41,520
TENN	25.0	23.0	26.0	35,500	28,750	34,320
TEX	23.0	28.0	28.0	4,370	4,200	6,300
VA	24.0	21.0	28.0	13,680	10,920	15,540
WIS	36.0	38.0	23.0	11,520	12,160	8,970
U S	33.3	33.7	26.8	1,940,101	1,922,762	1,538,666

COTTON

STATE	AREA PLANTED			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
UPLAND						
ALA	315.0	335.0	375.0	313.0	333.0	355.0
ARIZ	250.0	290.0	350.0	249.0	289.0	349.0
ARK	490.0	555.0	695.0	480.0	550.0	675.0
CALIF	1,000.0	1,150.0	1,350.0	990.0	1,140.0	1,335.0
FLA	19.5	29.5	33.0	19.0	29.0	29.0
GA	225.0	250.0	350.0	195.0	245.0	315.0
KANS	1.2	1.0	1.0	1.0	.9	.9
LA	580.0	605.0	735.0	570.0	600.0	645.0
MISS	1,020.0	1,020.0	1,230.0	1,000.0	1,010.0	1,190.0
MO	178.0	190.0	240.0	160.0	189.0	237.0
N MEX	63.0	66.0	77.0	50.0	62.0	69.0
N C	82.0	96.0	126.0	81.0	95.0	124.0
OKLA	400.0	420.0	460.0	350.0	400.0	400.0
S C	118.0	120.0	145.0	113.0	119.0	142.0
TENN	340.0	440.0	540.0	335.0	435.0	535.0
TEX	4,850.0	4,700.0	5,600.0	3,450.0	4,400.0	5,300.0
VA	1.4	1.8	3.0	1.3	1.8	3.0
U S	9,933.1	10,269.3	12,310.0	8,357.3	9,898.7	11,703.9
AMER-PIMA						
ARIZ	74.0	91.0	128.0	73.8	90.8	128.0
CALIF		0.9	1.8		0.9	1.8
N MEX	11.1	14.0	17.6	11.1	13.9	17.6
TEX	26.4	32.0	40.0	26.2	31.0	39.5
U S	111.5	137.9	187.4	111.1	136.6	186.9
ALL						
ALA	315.0	335.0	375.0	313.0	333.0	355.0
ARIZ	324.0	381.0	478.0	322.8	379.8	477.0
ARK	490.0	555.0	695.0	480.0	550.0	675.0
CALIF	1,000.0	1,150.9	1,351.8	990.0	1,140.9	1,336.8
FLA	19.5	29.5	33.0	19.0	29.0	29.0
GA	225.0	250.0	350.0	195.0	245.0	315.0
KANS	1.2	1.0	1.0	1.0	.9	.9
LA	580.0	605.0	735.0	570.0	600.0	645.0
MISS	1,020.0	1,020.0	1,230.0	1,000.0	1,010.0	1,190.0
MO	178.0	190.0	240.0	160.0	189.0	237.0
N MEX	74.1	80.0	94.6	61.1	75.9	86.6
N C	82.0	96.0	126.0	81.0	95.0	124.0
OKLA	400.0	420.0	460.0	350.0	400.0	400.0
S C	118.0	120.0	145.0	113.0	119.0	142.0
TENN	340.0	440.0	540.0	335.0	435.0	535.0
TEX	4,876.4	4,732.0	5,640.0	3,476.2	4,431.0	5,339.5
VA	1.4	1.8	3.0	1.3	1.8	3.0
U S	10,044.6	10,407.2	12,497.4	8,468.4	10,035.3	11,890.8

COTTON

STATE	YIELD			PRODUCTION 1/		
	1986	1987	1988	1986	1987	1988
	POUNDS			1,000 BALES 2/		
UPLAND						
ALA	506	572	514	330.0	397.0	380.0
ARIZ	1,301	1,410	1,197	675.0	849.0	870.0
ARK	602	786	747	602.0	901.0	1,050.0
CALIF	1,088	1,259	1,025	2,245.0	2,989.0	2,850.0
FLA	707	646	497	28.0	39.0	30.0
GA	455	662	564	185.0	338.0	370.0
KANS	336	480	427	.7	.9	.8
LA	567	782	707	673.0	977.0	950.0
MISS	571	829	738	1,190.0	1,745.0	1,830.0
MO	588	838	628	196.0	330.0	310.0
N MEX	595	689	717	62.0	89.0	103.0
N C	646	495	511	109.0	98.0	132.0
OKLA	288	415	348	210.0	346.0	290.0
S C	370	428	500	87.0	106.0	148.0
TENN	567	700	529	396.0	634.0	590.0
TEX	353	506	471	2,535.0	4,635.0	5,200.0
VA	554	373	560	1.5	1.4	3.5
U S	547	702	620	9,525.2	14,475.3	15,107.3
AMER-PIMA						
ARIZ	965	1,126	938	148.3	213.0	250.0
CALIF		1,173	853		2.2	3.2
N MEX	718	642	682	16.6	18.6	25.0
TEX	751	787	729	41.0	50.8	60.0
U S	890	1,000	869	205.9	284.6	338.2
ALL						
ALA	506	572	514	330.0	397.0	380.0
ARIZ	1,224	1,342	1,127	823.3	1,062.0	1,120.0
ARK	602	786	747	602.0	901.0	1,050.0
CALIF	1,088	1,258	1,024	2,245.0	2,991.2	2,853.2
FLA	707	646	497	28.0	39.0	30.0
GA	455	662	564	185.0	338.0	370.0
KANS	336	480	427	.7	.9	.8
LA	567	782	707	673.0	977.0	950.0
MISS	571	829	738	1,190.0	1,745.0	1,830.0
MO	588	838	628	196.0	330.0	310.0
N MEX	617	680	709	78.6	107.6	128.0
N C	646	495	511	109.0	98.0	132.0
OKLA	288	415	348	210.0	346.0	290.0
S C	370	428	500	87.0	106.0	148.0
TENN	567	700	529	396.0	634.0	590.0
TEX	356	508	473	2,576.0	4,685.8	5,260.0
VA	554	373	560	1.5	1.4	3.5
U S	552	706	623	9,731.1	14,759.9	15,445.5

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

COTTONSEED

STATE	PRODUCTION		
	1986	1987	IND 1988
	1,000 TONS		
ALA	122.0	150.0	138.5
ARIZ	309.0	390.0	417.0
ARK	228.0	338.0	395.8
CALIF	875.0	1,151.8	1,131.5
FLA	9.8	14.4	10.8
GA	64.0	122.0	129.9
KANS	.3	.4	.3
LA	257.0	378.0	355.1
MISS	458.0	678.0	698.6
MO	81.0	130.0	124.0
N MEX	30.5	42.3	49.7
N C	40.0	33.0	47.5
OKLA	85.0	155.0	118.0
S C	31.0	36.0	51.1
TENN	157.0	235.0	226.2
TEX	1,052.8	1,914.8	2,158.7
VA	.5	.5	1.3
U S	3,800.9	5,769.2	6,054.0

SUNFLOWER

STATE & VARIETAL TYPES	AREA PLANTED			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
OIL						
MINN	130	80	45	126	79	35
N DAK	1,240	1,200	1,350	1,195	1,180	1,250
S DAK	377	295	255	367	293	246
TEX	30	12	13	28	11	12
U S	1,777	1,587	1,663	1,716	1,563	1,543
NON-OIL						
MINN	25	10	13	24	9	12
N DAK	220	200	250	212	195	240
S DAK	3	5	5	3	5	4
TEX		3	7		3	7
U S	248	218	275	239	212	263
ALL						
MINN	155	90	58	150	88	47
N DAK	1,460	1,400	1,600	1,407	1,375	1,490
S DAK	380	300	260	370	298	250
TEX	30	15	20	28	14	19
U S	2,025	1,805	1,938	1,955	1,775	1,806
	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	POUNDS			1,000 POUNDS		
OIL						
MINN	1,500	1,450	1,350	189,000	114,550	47,250
N DAK	1,350	1,520	880	1,613,250	1,793,600	1,100,000
S DAK	1,380	1,300	820	506,460	380,900	201,720
TEX	1,300	1,200	1,300	36,400	13,200	15,600
U S	1,367	1,473	884	2,345,110	2,302,250	1,364,570
NON-OIL						
MINN	1,550	1,500	1,400	37,200	13,500	16,800
N DAK	1,370	1,450	950	290,440	282,750	228,000
S DAK	1,000	1,210	800	3,000	6,050	3,200
TEX		1,200	1,400		3,600	9,800
U S	1,383	1,443	980	330,640	305,900	257,800
ALL						
MINN	1,508	1,455	1,363	226,200	128,050	64,050
N DAK	1,353	1,510	891	1,903,690	2,076,350	1,328,000
S DAK	1,377	1,298	820	509,460	386,950	204,920
TEX	1,300	1,200	1,337	36,400	16,800	25,400
U S	1,369	1,469	898	2,675,750	2,608,150	1,622,370

ALL HAY

STATE	AREA HARVESTED			YIELD		
	1986	1987	1988	1986	1987	1988
1,000 ACRES						
ALA	700	700	750	1.60	2.10	2.00
ARIZ	177	190	180	7.13	7.28	7.36
ARK	955	985	970	2.04	1.75	1.72
CALIF	1,680	1,670	1,680	5.14	5.39	5.15
COLO	1,410	1,500	1,650	2.58	2.70	2.40
CONN	86	88	79	2.43	2.26	2.34
DEL	23	23	26	2.17	2.26	2.62
FLA	260	275	270	2.60	2.90	2.70
GA	530	600	570	1.70	2.20	2.20
IDAHO	1,400	1,270	1,140	3.37	3.55	3.40
ILL	1,100	1,000	1,500	3.33	3.17	2.21
IND	780	730	940	2.87	3.08	1.99
IOWA	2,400	2,000	3,200	3.33	3.35	2.11
KANS	2,500	2,400	2,550	2.56	2.51	2.03
KY	1,795	2,160	2,270	2.00	1.98	1.68
LA	300	360	355	2.60	2.71	2.51
MAINE	225	216	216	1.99	1.98	1.92
MD	225	235	225	2.26	2.73	2.75
MASS	127	127	126	2.56	2.29	2.32
MICH	1,770	1,500	1,900	3.24	2.92	2.22
MINN	2,850	2,625	4,000	3.39	2.97	1.74
MISS	580	570	650	2.00	2.50	2.00
MO	3,400	3,520	4,000	1.77	1.76	1.29
MONT	2,250	2,200	1,800	1.92	1.91	1.55
NEBR	3,450	3,100	3,400	2.14	2.21	1.91
NEV	520	515	510	2.65	2.68	2.62
N H	87	85	84	2.28	2.13	2.20
N J	115	112	110	2.58	2.56	2.33
N MEX	310	305	275	4.25	4.40	4.28
N Y	2,245	2,230	2,160	2.41	2.36	2.29
N C	410	435	450	1.40	1.67	1.77
N DAK	3,100	2,950	2,800	1.75	1.63	0.72
OHIO	1,460	1,450	1,625	2.95	3.05	2.18
OKLA	1,980	2,210	2,310	2.17	2.00	1.70
OREG	1,110	1,120	1,065	2.82	2.69	2.61
PA	2,000	2,030	2,040	2.56	2.56	2.31
R I	9	8	8	2.56	2.38	2.50
S C	205	225	240	1.60	2.00	2.10
S DAK	4,700	3,950	4,100	1.99	1.79	0.95
TENN	1,380	1,570	1,600	1.52	1.68	1.44
TEX	3,260	3,240	3,200	2.29	2.45	1.67
UTAH	625	625	620	3.42	3.59	3.45
VT	440	410	405	2.13	2.08	1.90
VA	1,110	1,324	1,200	1.32	1.62	1.85
WASH	830	760	800	3.46	3.55	3.54
W VA	570	630	620	1.41	1.58	1.41
WIS	3,680	3,320	3,750	2.93	2.67	1.31
WYO	1,300	1,200	1,140	1.88	1.85	1.74
U S	62,419	60,748	65,559	2.49	2.46	1.93

## ALL HAY

STATE	PRODUCTION		
	1986	1987	1988
	1,000 TONS		
ALA	1,120	1,470	1,500
ARIZ	1,262	1,383	1,325
ARK	1,945	1,720	1,671
CALIF	8,628	9,005	8,652
COLO	3,642	4,044	3,957
CONN	209	199	185
DEL	50	52	68
FLA	676	798	729
GA	901	1,320	1,254
IDAHO	4,720	4,503	3,881
ILL	3,664	3,169	3,310
IND	2,236	2,249	1,868
IOWA	8,000	6,703	6,760
KANS	6,390	6,020	5,175
KY	3,588	4,278	3,821
LA	781	974	891
MAINE	448	428	414
MD	509	642	619
MASS	325	291	292
MICH	5,743	4,384	4,220
MINN	9,675	7,800	6,960
MISS	1,160	1,425	1,300
MO	6,028	6,178	5,160
MONT	4,320	4,210	2,790
NEBR	7,388	6,865	6,510
NEV	1,376	1,380	1,336
N H	198	181	185
N J	297	287	256
N MEX	1,319	1,341	1,177
N Y	5,408	5,269	4,940
N C	573	726	797
N DAK	5,425	4,795	2,010
OHIO	4,307	4,423	3,543
OKLA	4,295	4,413	3,931
OREG	3,134	3,014	2,775
PA	5,124	5,198	4,716
R I	23	19	20
S C	328	450	504
S DAK	9,330	7,090	3,910
TENN	2,092	2,644	2,310
TEX	7,460	7,930	5,350
UTAH	2,135	2,243	2,138
VT	938	851	771
VA	1,464	2,147	2,220
WASH	2,874	2,698	2,833
W VA	801	994	876
WIS	10,775	8,880	4,925
WYO	2,445	2,219	1,982
U S	155,529	149,302	126,817

ALFALFA AND ALFALFA MIXTURES FOR HAY

STATE	AREA HARVESTED			YIELD		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES			TONS		
ARIZ	155	160	155	7.60	7.80	7.90
ARK	35	35	35	3.00	3.00	2.30
CALIF	1,080	1,150	1,100	6.60	6.70	6.60
COLO	770	830	780	3.40	3.50	3.40
CONN	20	21	19	2.85	2.60	2.65
DEL	7	9	9	3.00	2.75	3.75
IDAHO	1,100	1,020	920	3.80	3.90	3.80
ILL	630	570	950	4.10	3.90	2.50
IND	400	380	460	3.50	3.80	2.60
IOWA	1,600	1,450	2,400	3.80	3.75	2.35
KANS	900	850	750	3.90	3.80	3.30
KY	255	260	320	3.20	3.30	2.80
LA	12	12	10	2.70	2.80	2.80
MAINE	23	24	21	2.35	2.25	2.50
MD	80	85	80	3.10	3.75	3.75
MASS	29	30	31	3.10	2.60	2.50
MICH	1,400	1,180	1,300	3.60	3.20	2.60
MINN	1,950	1,700	2,400	3.90	3.50	1.90
MO	420	420	400	3.00	2.90	2.10
MONT	1,300	1,300	1,100	2.30	2.20	1.90
NEBR	1,350	1,300	1,350	3.45	3.55	3.00
NEV	240	245	250	4.10	4.20	4.20
N H	21	22	19	2.80	2.50	2.50
N J	43	40	39	3.40	3.40	3.10
N MEX	240	240	220	5.00	5.10	4.90
N Y	925	930	970	2.85	2.80	2.70
N C	30	25	30	2.00	2.80	2.75
N DAK	1,550	1,600	1,000	2.10	1.90	0.75
OHIO	730	725	725	3.70	3.70	2.90
OKLA	430	410	410	3.50	3.30	3.10
OREG	460	430	415	4.20	4.20	4.10
PA	840	850	840	3.20	3.20	2.90
R I	3	3	2	3.00	2.70	2.75
S DAK	2,500	2,350	2,100	2.50	2.20	1.10
TENN	100	120	100	3.00	2.70	2.10
TEX	160	140	100	4.00	3.50	3.90
UTAH	470	465	480	3.90	4.10	3.90
VT	115	120	105	2.50	2.50	2.20
VA	110	124	120	2.40	2.80	3.20
WASH	470	460	490	4.20	4.30	4.20
W VA	90	80	70	2.50	2.80	2.30
WIS	3,150	2,800	3,100	3.00	2.80	1.40
WYO	600	570	520	2.50	2.40	2.50
U S	26,793	25,535	26,695	3.42	3.32	2.60

ALFALFA AND ALFALFA MIXTURES FOR HAY

STATE	PRODUCTION		
	1986	1987	1988
	1,000 TONS		
ARIZ	1,178	1,248	1,225
ARK	105	105	81
CALIF	7,128	7,705	7,260
COLO	2,618	2,905	2,652
CONN	57	55	50
DEL	21	25	34
IDAHO	4,180	3,978	3,496
ILL	2,583	2,223	2,375
IND	1,400	1,444	1,196
IOWA	6,080	5,438	5,640
KANS	3,510	3,230	2,475
KY	816	858	896
LA	32	34	28
MAINE	54	54	53
MD	248	319	300
MASS	90	78	78
MICH	5,040	3,776	3,380
MINN	7,605	5,950	4,560
MO	1,260	1,218	840
MONT	2,990	2,860	2,090
NEBR	4,658	4,615	4,050
NEV	984	1,029	1,050
N H	59	55	48
N J	146	136	121
N MEX	1,200	1,224	1,078
N Y	2,636	2,604	2,619
N C	60	70	83
N DAK	3,255	3,040	750
OHIO	2,701	2,683	2,103
OKLA	1,505	1,353	1,271
OREG	1,932	1,806	1,702
PA	2,688	2,720	2,436
R I	9	8	6
S DAK	6,250	5,170	2,310
TENN	300	324	210
TEX	640	490	390
UTAH	1,833	1,907	1,872
VT	288	300	231
VA	264	347	384
WASH	1,974	1,978	2,058
W VA	225	224	161
WIS	9,450	7,840	4,340
WYO	1,500	1,368	1,300
U S	91,552	84,794	69,282

ALL OTHER HAY

STATE	AREA HARVESTED			YIELD		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
ALA	700	700	750	1.60	2.10	2.00
ARIZ	22	30	25	3.80	4.50	4.00
ARK	920	950	935	2.00	1.70	1.70
CALIF	600	520	580	2.50	2.50	2.40
COLO	640	670	870	1.60	1.70	1.50
CONN	66	67	60	2.30	2.15	2.25
DEL	16	14	17	1.80	1.95	2.00
FLA	260	275	270	2.60	2.90	2.70
GA	530	600	570	1.70	2.20	2.20
IDAHO	300	250	220	1.80	2.10	1.75
ILL	470	430	550	2.30	2.20	1.70
IND	380	350	480	2.20	2.30	1.40
IOWA	800	550	800	2.40	2.30	1.40
KANS	1,600	1,550	1,800	1.80	1.80	1.50
KY	1,540	1,900	1,950	1.80	1.80	1.50
LA	288	348	345	2.60	2.70	2.50
MAINE	202	192	195	1.95	1.95	1.85
MD	145	150	145	1.80	2.15	2.20
MASS	98	97	95	2.40	2.20	2.25
MICH	370	320	600	1.90	1.90	1.40
MINN	900	925	1,600	2.30	2.00	1.50
MISS	580	570	650	2.00	2.50	2.00
MO	2,980	3,100	3,600	1.60	1.60	1.20
MONT	950	900	700	1.40	1.50	1.00
NEBR	2,100	1,800	2,050	1.30	1.25	1.20
NEV	280	270	260	1.40	1.30	1.10
N H	66	63	65	2.10	2.00	2.10
N J	72	72	71	2.10	2.10	1.90
N MEX	70	65	55	1.70	1.80	1.80
N Y	1,320	1,300	1,190	2.10	2.05	1.95
N C	380	410	420	1.35	1.60	1.70
N DAK	1,550	1,350	1,800	1.40	1.30	0.70
OHIO	730	725	900	2.20	2.40	1.60
OKLA	1,550	1,800	1,900	1.80	1.70	1.40
OREG	650	690	650	1.85	1.75	1.65
PA	1,160	1,180	1,200	2.10	2.10	1.90
R I	6	5	6	2.35	2.20	2.30
S C	205	225	240	1.60	2.00	2.10
S DAK	2,200	1,600	2,000	1.40	1.20	0.80
TENN	1,280	1,450	1,500	1.40	1.60	1.40
TEX	3,100	3,100	3,100	2.20	2.40	1.60
UTAH	155	160	140	1.95	2.10	1.90
VT	325	290	300	2.00	1.90	1.80
VA	1,000	1,200	1,080	1.20	1.50	1.70
WASH	360	300	310	2.50	2.40	2.50
W VA	480	550	550	1.20	1.40	1.30
WIS	530	520	650	2.50	2.00	0.90
WYO	700	630	620	1.35	1.35	1.10
U S	35,626	35,213	38,864	1.80	1.83	1.48

ALL OTHER HAY

STATE	PRODUCTION		
	1986	1987	1988
	1,000 TONS		
ALA	1,120	1,470	1,500
ARIZ	84	135	100
ARK	1,840	1,615	1,590
CALIF	1,500	1,300	1,392
COLO	1,024	1,139	1,305
CONN	152	144	135
DEL	29	27	34
FLA	676	798	729
GA	901	1,320	1,254
IDAHO	540	525	385
ILL	1,081	946	935
IND	836	805	672
IOWA	1,920	1,265	1,120
KANS	2,880	2,790	2,700
KY	2,772	3,420	2,925
LA	749	940	863
MAINE	394	374	361
MD	261	323	319
MASS	235	213	214
MICH	703	608	840
MINN	2,070	1,850	2,400
MISS	1,160	1,425	1,300
MO	4,768	4,960	4,320
MONT	1,330	1,350	700
NEBR	2,730	2,250	2,460
NEV	392	351	286
N H	139	126	137
N J	151	151	135
N MEX	119	117	99
N Y	2,772	2,665	2,321
N C	513	656	714
N DAK	2,170	1,755	1,260
OHIO	1,606	1,740	1,440
OKLA	2,790	3,060	2,660
OREG	1,202	1,208	1,073
PA	2,436	2,478	2,280
R I	14	11	14
S C	328	450	504
S DAK	3,080	1,920	1,600
TENN	1,792	2,320	2,100
TEX	6,820	7,440	4,960
UTAH	302	336	266
VT	650	551	540
VA	1,200	1,800	1,836
WASH	900	720	775
W VA	576	770	715
WIS	1,325	1,040	585
WYO	945	851	682
U S	63,977	64,508	57,535

DRY EDIBLE BEANS 1/

STATE AND CROP	AREA PLANTED			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
LARGE LIMA						
CALIF :	19.0	22.0	29.0	18.5	21.0	28.0
BABY LIMA						
CALIF :	30.0	22.0	30.0	29.5	21.0	29.0
OTHER						
CALIF :	108.0	128.0	95.0	107.0	126.0	93.0
ALL						
CALIF :	157.0	172.0	154.0	155.0	168.0	150.0
COLO :	191.0	185.0	160.0	185.0	180.0	155.0
IDAHO :	140.0	152.0	120.0	139.0	148.0	119.0
KANS :	24.0	26.0	21.0	23.0	25.0	20.0
MICH :	480.0	470.0	260.0	340.0	420.0	185.0
MINN :	65.0	75.0	65.0	61.0	74.0	60.0
MONT :	4.8	5.8	4.4	4.5	5.7	4.0
NEBR :	215.0	230.0	200.0	205.0	197.0	193.0
N MEX 2/		11.0	9.5		11.0	9.5
N Y :	33.0	29.0	27.0	31.0	28.0	25.0
N DAK :	290.0	370.0	400.0	280.0	359.0	370.0
UTAH :	9.0	6.8	4.5	8.5	6.7	4.5
WASH :	32.0	36.0	37.0	31.0	35.0	36.0
WYO :	33.0	32.0	36.0	32.0	31.0	35.0
U S :	1,673.8	1,800.6	1,498.4	1,495.0	1,688.4	1,366.0
	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	POUNDS			1,000 CWT		
LARGE LIM						
CALIF :	2,080	2,070	2,040	385	435	571
BABY LIMA						
CALIF :	2,160	2,310	2,270	637	485	658
OTHER						
CALIF :	1,720	1,760	1,790	1,840	2,218	1,665
ALL						
CALIF :	1,846	1,868	1,929	2,862	3,138	2,894
COLO :	1,460	1,450	1,650	2,701	2,610	2,558
IDAHO :	1,960	1,900	1,890	2,724	2,812	2,249
KANS :	1,650	1,450	1,550	380	363	310
MICH :	800	1,220	1,200	2,720	5,124	2,220
MINN :	1,650	1,600	800	1,007	1,184	480
MONT :	2,160	2,190	1,900	97	125	76
NEBR :	2,100	1,780	1,950	4,305	3,507	3,764
N MEX 2/		1,930	2,200		212	209
N Y :	1,400	1,500	1,300	434	420	325
N DAK :	1,550	1,400	730	4,340	5,026	2,701
UTAH :	480	700	580	41	47	26
WASH :	2,160	2,130	2,060	670	746	742
WYO :	1,890	1,920	1,930	605	595	676
U S :	1,531	1,535	1,408	22,886	25,909	19,230

1/ EXCLUDES BEANS GROWN FOR GARDEN SEED. 2/ ESTIMATES BEGIN WITH 1987 CROP.

DRY EDIBLE BEANS, PRODUCTION BY COMMERCIAL CLASSES  
THOUSAND HUNDREDWEIGHT, 1986-88

STATE	LARGE LIMA			BABY LIMA			BLACKEYE			GARBANZO		
	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988
CALIF	385	435	571	637	485	658	727	1,110	858	48	35	20
IDAHO											18	
WASH											39	37
U S	385	435	571	637	485	658	727	1,110	858	48	92	57
STATE	NAVY			GREAT NORTHERN			SMALL WHITE			CRANBERRY		
	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988
CALIF								48	36			
COLO		33	11	10	4	43	15	38	33			
IDAHO				204	428	315	109	186	157			
KANS		43	6	43	36	27						
MICH	1,495	4,114	1,860				10	129	39	220	205	120
MINN	555	650	220		40							
NEBR	30	54	103	2,425	1,907	2,373		30	12			
N MEX1/		54	81									
N DAK	1,435	2,262	1,188									
WASH							26	86	208	235		
WYO				42	65	116						
U S	3,515	7,210	3,469	2,724	2,480	2,900	220	639	512	220	205	120
STATE	SMALL RED			PINK			RED KIDNEY			BLACK TURTLE SOUP		
	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988
CALIF				324	94	90	625	813	514			
COLO							33	77	48			
IDAHO	245	231	319	845	640	472	27	37	18			
MICH							225	370	154	620	130	14
MINN							110	140	120			
MONT				29	36	13						
NEBR							50	110	70			
N MEX1/					27	13						
N Y							311	298	226	97	91	71
WASH	304	163	243	50	27	18						
U S	549	394	562	1,248	824	606	1,381	1,845	1,150	717	221	85
STATE	PINTO			OTHER			TOTAL					
	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988
CALIF						116		118	147	2,862	3,138	2,894
COLO	2,642	2,408	2,386			1		50	37	2,701	2,610	2,558
IDAHO	1,131	1,172	923		163			100	45	2,724	2,812	2,249
KANS	337	274	247					10	30	380	363	310
MICH	120	126	11		30			50	22	2,720	5,124	2,220
MINN	332	345	120		10			9	20	1,007	1,184	480
MONT	68	89	63							97	125	76
NEBR	1,800	1,400	1,200					6	6	4,305	3,507	3,764
N MEX1/		131	108							7	212	209
N Y					26			31	28	434	420	325
N DAK	2,820	2,694	1,432		85			70	81	4,340	5,026	2,701
UTAH	41	47	26							41	47	26
WASH	184	249	159		46			60	24	670	746	742
WYO	563	530	560							605	595	676
U S	10,038	9,465	7,235	477	504		447	22,886	25,909	19,230		

1/ ESTIMATES BEGIN WITH 1987 CROP.

LENTILS

STATE	AREA PLANTED		AREA HARVESTED	
	1987	1988	1987	1988
	1,000 ACRES			
IDAHO	45.0	23.0	45.0	23.0
WASH	98.0	49.0	97.0	48.0
U S	143.0	72.0	142.0	71.0
	YIELD		PRODUCTION	
	1987	1988	1987	1988
	POUNDS		1,000 CWT	
IDAHO	1,400	1,300	630	299
WASH	1,200	1,240	1,164	595
U S	1,263	1,259	1,794	894

WRINKLED SEED PEAS

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

DRY EDIBLE PEAS 1/

STATE	AREA PLANTED		AREA HARVESTED	
	1987	1988	1987	1988
	1,000 ACRES			
IDAHO	56.0	64.0	55.0	63.0
WASH	107.0	117.0	106.0	116.0
US	163.0	181.0	161.0	179.0
	YIELD		PRODUCTION	
	1987	1988	1987	1988
	POUNDS		1,000 CWT	
IDAHO	2,300	2,200	1,265	1,386
WASH	2,000	2,140	2,120	2,482
U S	2,102	2,161	3,385	3,868

1/ EXCLUDES BOTH WRINKLED SEED PEAS AND AUSTRIAN WINTER PEAS.

AUSTRIAN WINTER PEAS

STATE	AREA PLANTED		AREA HARVESTED	
	1987	1988	1987	1988
	1,000 ACRES			
IDAHO	38.0	8.0	30.0	7.0
OREG	4.0	5.0	3.0	3.0
U S	42.0	13.0	33.0	10.0
	YIELD		PRODUCTION	
	1987	1988	1987	1988
	POUNDS		1,000 CWT	
IDAHO	1,600	1,300	480	91
OREG	1,400	1,400	42	42
U S	1,582	1,330	522	133

POTATOES: ACREAGE

STATE	AREA PLANTED			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
ALA	12.4	12.2	10.9	12.0	11.9	10.6
ARIZ	6.1	4.9	5.3	5.9	4.9	5.3
CALIF	48.4	50.8	47.2	48.4	50.6	47.2
COLO	63.9	67.5	66.0	63.9	66.3	65.3
CONN	.9	.4	.5	.9	.4	.5
DEL	7.0	8.0	8.4	6.9	8.0	8.4
FLA	33.4	36.5	36.9	32.6	35.7	36.1
IDAHO	310.0	340.0	350.0	307.0	337.0	347.0
ILL	3.0	3.1	3.5	2.9	2.8	3.2
IND	4.9	5.4	4.9	4.5	5.0	4.2
IOWA	1.7	2.0	1.8	1.7	2.0	1.7
LA	.6	.5	.5	.5	.3	.4
MAINE	87.0	84.0	81.0	86.0	83.0	80.0
MD	1.7	2.5	2.3	1.6	2.5	2.3
MASS	2.9	2.8	2.7	2.9	2.8	2.6
MICH	55.0	44.5	43.5	42.3	43.3	39.5
MINN	78.3	78.5	75.9	76.2	77.4	74.7
MONT	7.8	8.0	7.8	7.7	7.9	7.7
NEBR	9.4	10.5	10.4	9.1	10.0	9.9
NEV	9.0	8.0	8.0	9.0	8.0	8.0
N J	8.2	7.5	6.1	8.1	7.4	6.0
N MEX	9.2	10.5	10.3	9.0	10.0	10.2
N Y	33.0	33.0	31.5	31.4	32.4	30.5
N C	15.9	16.6	16.0	15.6	16.4	15.8
N DAK	128.0	130.0	130.0	120.0	125.0	125.0
OHIO	10.2	10.3	9.5	9.7	9.8	8.7
OREG	53.0	56.0	46.0	52.0	55.0	45.0
PA	22.0	22.0	21.5	21.5	21.5	20.5
R I	1.6	1.5	1.2	1.6	1.5	1.2
S DAK	13.0	12.0	11.0	12.0	11.0	10.0
TENN	2.6	1.8	1.5	2.6	1.8	1.4
TEX	16.4	18.5	15.9	16.1	17.2	15.2
UTAH	6.4	6.6	6.8	6.4	6.6	6.6
VT	.1	1/	1/	.1	1/	1/
VA	14.0	14.5	14.0	13.9	14.1	12.8
WASH	119.0	124.0	115.0	118.0	124.0	115.0
WIS	59.0	64.5	63.0	57.5	63.5	62.5
WYO	2.2	2.6	2.0	2.1	2.3	1.9
U S	1,257.2	1,302.0	1,268.8	1,219.6	1,279.3	1,242.9

POTATOES: YIELD AND PRODUCTION

STATE	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	CWT			1,000	CWT	
ALA	139	143	107	1,668	1,698	1,139
ARIZ	220	275	235	1,298	1,348	1,246
CALIF	381	376	355	18,451	19,039	16,765
COLO	327	322	309	20,880	21,359	20,156
CONN	235	245	225	212	98	113
DEL	190	210	215	1,311	1,680	1,806
FLA	262	177	226	8,543	6,324	8,173
IDAHO	294	296	286	90,220	99,710	99,320
ILL	270	260	230	783	728	736
IND	220	250	180	990	1,250	756
IOWA	195	180	170	332	360	289
LA	70	60	50	35	18	20
MAINE	255	280	275	21,930	23,240	22,000
MD	170	200	200	272	500	460
MASS	230	235	220	667	658	572
MICH	267	253	218	11,304	10,970	8,610
MINN	201	236	181	15,293	18,250	13,557
MONT	290	300	280	2,233	2,370	2,156
NEBR	264	285	285	2,399	2,850	2,818
NEV	350	340	310	3,150	2,720	2,480
N J	240	190	195	1,944	1,406	1,170
N MEX	310	350	300	2,790	3,500	3,060
N Y	249	250	210	7,825	8,100	6,420
N C	145	139	184	2,264	2,277	2,904
N DAK	180	185	115	21,600	23,125	14,375
OHIO	260	230	195	2,522	2,254	1,697
OREG	446	471	461	23,172	25,924	20,735
PA	240	220	180	5,160	4,730	3,690
R I	240	175	250	384	263	300
S DAK	210	210	160	2,520	2,310	1,600
TENN	90	80	65	234	144	91
TEX	223	195	223	3,591	3,350	3,397
UTAH	275	240	245	1,760	1,584	1,617
VT	200	1/	1/	20	1/	1/
VA	80	140	160	1,112	1,974	2,048
WASH	525	540	550	61,950	66,960	63,250
WIS	350	345	320	20,125	21,908	20,000
WYO	270	210	235	567	483	447
U S	296	301	282	361,511	385,462	349,973

1/ ESTIMATES DISCONTINUED.

POTATOES BY SEASONAL GROUPS CONTINUED

SEASONAL GROUP AND STATE	AREA PLANTED			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
1,000 ACRES						
WINTER						
CALIF	5.1	4.6	5.2	5.1	4.6	5.2
FLA	7.4	7.3	7.3	7.2	7.1	7.1
TOTAL	12.5	11.9	12.5	12.3	11.7	12.3
SPRING						
ALA	4.9	5.0	4.2	4.7	4.9	4.1
ARIZ	6.1	4.9	5.3	5.9	4.9	5.3
CALIF	19.5	21.3	19.6	19.5	21.3	19.6
FLA-HASTINGS	25.0	27.0	27.0	24.5	26.5	26.5
-OTHER	1.0	2.2	2.6	.9	2.1	2.5
LA	.6	.5	.5	.5	.3	.4
N C	13.9	14.6	14.5	13.7	14.5	14.4
TEX	6.4	7.0	6.4	6.2	6.2	6.2
TOTAL	77.4	82.5	80.1	75.9	80.7	79.0
YIELD : PRODUCTION						
	1986	1987	1988	1986	1987	1988
CWT : 1,000 CWT						
WINTER						
CALIF	290	235	230	1,479	1,081	1,196
FLA	210	200	200	1,512	1,420	1,420
TOTAL	243	214	213	2,991	2,501	2,616
SPRING						
ALA	145	125	135	682	613	554
ARIZ	220	275	235	1,298	1,348	1,246
CALIF	390	370	385	7,605	7,881	7,546
FLA-HASTINGS	280	170	235	6,860	4,505	6,228
-OTHER	190	190	210	171	399	525
LA	70	60	50	35	18	20
N C	150	140	190	2,055	2,030	2,736
TEX	180	150	185	1,116	930	1,147
TOTAL	261	220	253	19,822	17,724	20,002

POTATOES BY SEASONAL GROUPS CONTINUED

SEASONAL GROUP AND STATE	AREA PLANTED			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
SUMMER						
ALA	7.5	7.2	6.7	7.3	7.0	6.5
CALIF	6.8	6.6	5.9	6.8	6.4	5.9
COLO	6.9	6.5	6.0	6.9	6.3	5.8
DEL	7.0	8.0	8.4	6.9	8.0	8.4
ILL	3.0	3.1	3.5	2.9	2.8	3.2
IOWA	1.7	2.0	1.8	1.7	2.0	1.7
MD	1.7	2.5	2.3	1.6	2.5	2.3
MICH	13.0	10.5	11.5	7.3	10.3	9.5
MINN	6.3	6.5	5.9	6.2	6.4	5.7
NEBR	2.3	2.7	2.4	2.2	2.5	2.3
N J	8.2	7.5	6.1	8.1	7.4	6.0
N MEX	9.2	10.5	10.3	9.0	10.0	10.2
N C	2.0	2.0	1.5	1.9	1.9	1.4
TENN	2.6	1.8	1.5	2.6	1.8	1.4
TEX	10.0	11.5	9.5	9.9	11.0	9.0
VA	14.0	14.5	14.0	13.9	14.1	12.8
TOTAL	102.2	103.4	97.3	95.2	100.4	92.1
FALL						
CALIF	17.0	18.3	16.5	17.0	18.3	16.5
COLO	57.0	61.0	60.0	57.0	60.0	59.5
CONN	.9	.4	.5	.9	.4	.5
IDAHO-10 SW CO	17.0	18.0	18.0	17.0	18.0	18.0
-OTHER CO	293.0	322.0	332.0	290.0	319.0	329.0
IND	4.9	5.4	4.9	4.5	5.0	4.2
MAINE	87.0	84.0	81.0	86.0	83.0	80.0
MASS	2.9	2.8	2.7	2.9	2.8	2.6
MICH	42.0	34.0	32.0	35.0	33.0	30.0
MINN	72.0	72.0	70.0	70.0	71.0	69.0
MONT	7.8	8.0	7.8	7.7	7.9	7.7
NEBR	7.1	7.8	8.0	6.9	7.5	7.6
NEV	9.0	8.0	8.0	9.0	8.0	8.0
N Y-LONG IS	9.0	9.0	8.0	8.9	8.9	8.0
-UPSTATE	24.0	24.0	23.5	22.5	23.5	22.5
N DAK	128.0	130.0	130.0	120.0	125.0	125.0
OHIO	10.2	10.3	9.5	9.7	9.8	8.7
OREG-MALHEUR CO:	7.0	7.0	6.6	6.8	6.8	6.4
-OTHER CO	46.0	49.0	39.4	45.2	48.2	38.6
PA	22.0	22.0	21.5	21.5	21.5	20.5
R I	1.6	1.5	1.2	1.6	1.5	1.2
S DAK	13.0	12.0	11.0	12.0	11.0	10.0
UTAH	6.4	6.6	6.8	6.4	6.6	6.6
VT	.1	1/	1/	.1	1/	1/
WASH	119.0	124.0	115.0	118.0	124.0	115.0
WIS	59.0	64.5	63.0	57.5	63.5	62.5
WYO	2.2	2.6	2.0	2.1	2.3	1.9
TOTAL	1,065.1	1,104.2	1,078.9	1,036.2	1,086.5	1,059.5
U S	1,257.2	1,302.0	1,268.8	1,219.6	1,279.3	1,242.9

POTATOES BY SEASONAL GROUPS CONTINUED

SEASONAL GROUP AND STATE	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	CWT			1,000 CWT		
SUMMER						
ALA	135	155	90	986	1,085	585
CALIF	365	345	325	2,482	2,208	1,918
COLO	300	295	295	2,070	1,859	1,711
DEL	190	210	215	1,311	1,680	1,806
ILL	270	260	230	783	728	736
IOWA	195	180	170	332	360	289
MD	170	200	200	272	500	460
MICH	230	200	180	1,679	2,060	1,710
MINN	265	300	260	1,643	1,920	1,482
NEBR	275	270	300	605	675	690
N J	240	190	195	1,944	1,406	1,170
N MEX	310	350	300	2,790	3,500	3,060
N C	110	130	120	209	247	168
TENN	90	80	65	234	144	91
TEX	250	220	250	2,475	2,420	2,250
VA	80	140	160	1,112	1,974	2,048
TOTAL	220	227	219	20,927	22,766	20,174
FALL						
CALIF	405	430	370	6,885	7,869	6,105
COLO	330	325	310	18,810	19,500	18,445
CONN	235	245	225	212	98	113
IDAHO-10 SW CO	360	400	400	6,120	7,200	7,200
-OTHER CO	290	290	280	84,100	92,510	92,120
IND	220	250	180	990	1,250	756
MAINE	255	280	275	21,930	23,240	22,000
MASS	230	235	220	667	658	572
MICH	275	270	230	9,625	8,910	6,900
MINN	195	230	175	13,650	16,330	12,075
MONT	290	300	280	2,233	2,370	2,156
NEBR	260	290	280	1,794	2,175	2,128
NEV	350	340	310	3,150	2,720	2,480
N Y-LONG IS	285	250	240	2,537	2,225	1,920
-UPSTATE	235	250	200	5,288	5,875	4,500
N DAK	180	185	115	21,600	23,125	14,375
OHIO	260	230	195	2,522	2,254	1,697
OREG-MALHEUR CO:	350	410	375	2,380	2,788	2,400
-OTHER CO	460	480	475	20,792	23,136	18,335
PA	240	220	180	5,160	4,730	3,690
R I	240	175	250	384	263	300
S DAK	210	210	160	2,520	2,310	1,600
UTAH	275	240	245	1,760	1,584	1,617
VT	200	1/	1/	20	1/	1/
WASH	525	540	550	61,950	66,960	63,250
WIS	350	345	320	20,125	21,908	20,000
WYO	270	210	235	567	483	447
TOTAL	307	315	290	317,771	342,471	307,181
U S	296	301	282	361,511	385,462	349,973

1/ ESTIMATES DISCONTINUED.

SWEETPOTATOES

STATE	AREA PLANTED			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
ALA	6.4	6.8	7.0	6.3	6.7	6.8
CALIF	6.8	6.6	6.9	6.8	6.6	6.9
GA	6.0	5.5	5.5	5.8	5.2	5.2
LA	21.0	20.0	18.0	20.0	19.0	17.0
MD	1.0	.8	.9	.9	.8	.9
MISS	5.5	5.0	4.0	5.2	4.5	3.5
N J	2.0	2.0	2.0	2.0	2.0	2.0
N C	35.0	36.0	35.0	34.0	35.0	34.0
S C	4.5	4.5	4.0	4.0	4.5	4.0
TENN	.9	.8	.8	.9	.8	.8
TEX	7.0	7.7	7.5	6.6	7.3	7.1
VA	1.0	1.0	1.0	.9	.9	.9
U S	97.1	96.7	92.6	93.4	93.3	89.1
	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	CWT			1,000 CWT		
ALA	110	110	115	693	737	782
CALIF	200	205	190	1,360	1,353	1,311
GA	130	150	150	754	780	780
LA	125	130	145	2,500	2,470	2,465
MD	130	140	150	117	112	135
MISS	100	110	110	520	495	385
N J	110	120	100	220	240	200
N C	150	130	135	5,100	4,550	4,590
S C	105	90	90	420	405	360
TENN	110	110	90	99	88	72
TEX	120	100	90	792	730	639
VA	110	115	125	99	104	113
U S	136	129	133	12,674	12,064	11,832

TOBACCO BY STATES

STATE	AREA HARVESTED			YIELD		
	1986	1987	1988	1986	1987	1988
	ACRES			POUNDS		
CONN	1,990	1,800	1,810	1,539	1,509	1,573
FLA	5,300	5,600	6,400	2,510	2,465	2,680
GA	31,000	32,000	38,000	2,190	2,255	2,260
IND	5,900	5,400	5,300	2,050	2,050	2,000
KY	153,300	148,300	153,600	2,054	2,056	2,196
MD	16,000	11,700	10,000	1,320	1,140	1,290
MASS	470	520	520	1,323	1,256	1,608
MO	2,100	1,700	2,000	2,090	2,070	2,050
N C	214,600	224,900	250,500	2,073	2,075	2,207
OHIO	7,420	7,350	8,020	1,829	1,639	1,850
PA	11,000	11,000	9,500	1,985	1,882	1,913
S C	37,000	42,000	45,000	2,040	2,240	2,225
TENN	49,240	49,440	49,420	1,682	1,766	1,838
VA	38,430	39,430	46,610	1,913	1,950	1,951
W VA	1,600	1,800	1,900	1,650	1,440	1,550
WIS	6,200	4,200	3,100	1,913	1,993	1,847
U S	581,550	587,140	631,680	2,001	2,028	2,134
	PRODUCTION					
	1986		1987		1988	
	1,000 POUNDS					
CONN	3,062		2,716		2,848	
FLA	13,303		13,804		17,152	
GA	67,890		72,160		85,880	
IND	12,095		11,070		10,600	
KY	314,940		304,845		337,250	
MD	21,120		13,338		12,900	
MASS	622		653		836	
MO	4,389		3,519		4,100	
N C	444,790		466,592		552,970	
OHIO	13,574		12,044		14,838	
PA	21,830		20,700		18,175	
S C	75,480		94,080		100,125	
TENN	82,821		87,291		90,830	
VA	73,524		76,900		90,950	
W VA	2,640		2,592		2,945	
WIS	11,860		8,370		5,725	
U S	1,163,940		1,190,674		1,348,124	

TOBACCO BY CLASS AND TYPE

CLASS AND TYPE	AREA HARVESTED		
	1986	1987	1988
			ACRES
CLASS 1, FLUE-CURED			
TYPE 11, OLD AND MIDDLE BELTS			
N C	78,000	80,000	92,000
VA	28,000	28,000	35,000
U S	106,000	108,000	127,000
TYPE 12, EASTERN N C BELT			
N C	102,000	107,000	118,000
TYPE 13, N C BORDER & S C BELT			
N C	27,000	30,000	32,000
S C	37,000	42,000	45,000
U S	64,000	72,000	77,000
TYPE 14, GA-FLA BELT			
FLA	5,300	5,600	6,400
GA	31,000	32,000	38,000
U S	36,300	37,600	44,400
TOTAL 11-14	308,300	324,600	366,400
CLASS 2, FIRE-CURED			
TYPE 21, VA BELT			
VA	2,900	2,600	2,300
TYPE 22, EASTERN DISTRICT			
KY	4,400	2,700	2,800
TENN	8,800	5,500	5,500
U S	13,200	8,200	8,300
TYPE 23, WESTERN DISTRICT			
KY	4,300	2,600	2,600
TENN	680	460	440
U S	4,980	3,060	3,040
TOTAL 21-23	21,080	13,860	13,640
CLASS 3, AIR-CURED			
CLASS 3A, LIGHT AIR-CURED			
TYPE 31, BURLEY			
IND	5,900	5,400	5,300
KY	140,000	140,000	145,000
MO	2,100	1,700	2,000
N C	7,600	7,900	8,500
OHIO	7,100	7,300	8,000
TENN	39,000	43,000	43,000
VA	7,400	8,700	9,200
W VA	1,600	1,800	1,900
U S	210,700	215,800	222,900
TYPE 32, SOUTHERN MD BELT			
MD	16,000	11,700	10,000
PA	3,400	4,000	3,500
U S	19,400	15,700	13,500
TOTAL 31-32	230,100	231,500	236,400

CONTINUED

TOBACCO BY CLASS AND TYPE - CONTINUED

CLASS AND TYPE	AREA HARVESTED		
	1986	1987	1988
			ACRES
CLASS 3, AIR-CURED			
CLASS 3B, DARK			
AIR-CURED			
TYPE 35, ONE SUCKER			
BELT			
KY	2,900	1,900	2,000
TENN	760	480	480
U S	3,660	2,380	2,480
TYPE 36, GREEN RIVER			
BELT			
KY	1,700	1,100	1,200
TYPE 37, VA SUN-CURED:			
BELT			
VA	130	130	110
TOTAL 35-37	5,490	3,610	3,790
CLASS 4, CIGAR FILLER			
TYPE 41, PA SEEDLEAF			
PA	7,600	7,000	6,000
TYPE 42-44 OHIO-MIAMI:			
VALLEY TYPES			
OHIO 1/	320	50	20
TOTAL 41-44 1/	7,920	7,050	6,020
CLASS 5, CIGAR BINDER			
CLASS 5A, CONN VALLEY:			
BINDER			
TYPE 51, CONN VALLEY			
BROADLEAF			
CONN	1,000	930	850
MASS 2/		110	100
TYPE 52, CONN VALLEY			
HAVANA SEED			
MASS	130		
TOTAL 51-52	1,130	1,040	950
CLASS 5B, WIS BINDER			
TYPE 54, SOUTHERN WIS:			
WIS	2,800	2,700	2,000
TYPE 55, NORTHERN WIS:			
WIS	3,400	1,500	1,100
TOTAL 54-55	6,200	4,200	3,100
TOTAL 51-55	7,330	5,240	4,050
CLASS 6, CIGAR WRAPPER:			
TYPE 61, CONN VALLEY			
SHADE-GROWN			
CONN	990	870	960
MASS	340	410	420
U S	1,330	1,280	1,380
ALL CIGAR TYPES			
TOTAL 41-61	16,580	13,570	11,450
ALL TOBACCO	581,550	587,140	631,680

1/ INCLUDES BINDER TYPES GROWN IN OHIO. 2/ ESTIMATES BEGIN WITH 1987.

TOBACCO BY CLASS AND TYPE

CLASS AND TYPE	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	1,000 POUNDS					
CLASS 1, FLUE-CURED						
TYPE 11, OLD AND MIDDLE BELTS						
N C	1,980	1,970	2,090	154,440	157,600	192,280
VA	2,055	2,085	2,050	57,540	58,380	71,750
U S	2,000	2,000	2,079	211,980	215,980	264,030
TYPE 12, EASTERN N C BELT						
N C	2,165	2,170	2,325	220,830	232,190	274,350
TYPE 13, N C BORDER & S C BELT						
N C	2,040	2,090	2,220	55,080	62,700	71,040
S C	2,040	2,240	2,225	75,480	94,080	100,125
U S	2,040	2,178	2,223	130,560	156,780	171,165
TYPE 14, GA-FLA BELT						
FLA	2,510	2,465	2,680	13,303	13,804	17,152
GA	2,190	2,255	2,260	67,890	72,160	85,880
U S	2,237	2,286	2,321	81,193	85,964	103,032
TOTAL 11-14	2,091	2,129	2,218	644,563	690,914	812,577
CLASS 2, FIRE-CURED						
TYPE 21, VA BELT						
VA	1,220	1,000	1,300	3,538	2,600	2,990
TYPE 22, EASTERN DISTRICT						
KY	1,985	2,070	2,100	8,734	5,589	5,880
TENN	2,025	2,170	2,100	17,820	11,935	11,550
U S	2,012	2,137	2,100	26,554	17,524	17,430
TYPE 23, WESTERN DISTRICT						
KY	2,240	2,450	2,150	9,632	6,370	5,590
TENN	2,275	2,350	2,200	1,547	1,081	968
U S	2,245	2,435	2,157	11,179	7,451	6,558
TOTAL 21-23	1,958	1,990	1,978	41,271	27,575	26,978
CLASS 3, AIR-CURED						
CLASS 3A, LIGHT AIR-CURED						
TYPE 31, BURLEY						
IND	2,050	2,050	2,000	12,095	11,070	10,600
KY	2,050	2,050	2,200	287,000	287,000	319,000
MO	2,090	2,070	2,050	4,389	3,519	4,100
N C	1,900	1,785	1,800	14,440	14,102	15,300
OHIO	1,840	1,640	1,850	13,064	11,972	14,800
TENN	1,590	1,705	1,800	62,010	73,315	77,400
VA	1,660	1,815	1,750	12,284	15,790	16,100
W VA	1,650	1,440	1,550	2,640	2,592	2,945
U S	1,936	1,943	2,065	407,922	419,360	460,245
TYPE 32, SOUTHERN MD BELT						
MD	1,320	1,140	1,290	21,120	13,338	12,900
PA	1,950	1,850	1,850	6,630	7,400	6,475
U S	1,430	1,321	1,435	27,750	20,738	19,375
TOTAL 31-32	1,893	1,901	2,029	435,672	440,098	479,620

CONTINUED

TOBACCO BY CLASS AND TYPE - CONTINUED

CLASS AND TYPE	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	1,000 POUNDS					
CLASS 3, AIR-CURED						
CLASS 3B, DARK						
AIR-CURED						
TYPE 35, ONE SUCKER						
BELT						
KY	2,000	1,940	2,100	5,800	3,686	4,200
TENN	1,900	2,000	1,900	1,444	960	912
U S	1,979	1,952	2,061	7,244	4,646	5,112
TYPE 36, GREEN RIVER						
BELT						
KY	2,220	2,000	2,150	3,774	2,200	2,580
TYPE 37, VA SUN-CURED:						
BELT						
VA	1,245	1,000	1,000	162	130	110
TOTAL 35-37	2,036	1,932	2,059	11,180	6,976	7,802
CLASS 4, CIGAR FILLER						
TYPE 41, PA SEEDLEAF						
PA	2,000	1,900	1,950	15,200	13,300	11,700
TYPE 42-44 OHIO-MIAMI:						
VALLEY TYPES						
OHIO 1/	1,595	1,440	1,900	510	72	38
TOTAL 41-44 1/	1,984	1,897	1,950	15,710	13,372	11,738
CLASS 5, CIGAR BINDER						
CLASS 5A, CONN VALLEY:						
BINDER						
TYPE 51, CONN VALLEY						
BROADLEAF						
CONN	1,750	1,700	1,600	1,750	1,581	1,360
MASS 2/		1,800	1,850		198	185
TYPE 52, CONN VALLEY						
HAVANA SEED						
MASS	1,925			250		
TOTAL 51-52	1,770	1,711	1,626	2,000	1,779	1,545
CLASS 5B, WIS BINDER						
TYPE 54, SOUTHERN WIS:						
WIS	1,965	2,100	1,900	5,502	5,670	3,800
TYPE 55, NORTHERN WIS:						
WIS	1,870	1,800	1,750	6,358	2,700	1,925
TOTAL 54-55	1,913	1,993	1,847	11,860	8,370	5,725
TOTAL 51-55	1,891	1,937	1,795	13,860	10,149	7,270
CLASS 6, CIGAR WRAPPER:						
TYPE 61, CONN VALLEY						
SHADE-GROWN						
CONN	1,325	1,305	1,550	1,312	1,135	1,488
MASS	1,095	1,110	1,550	372	455	651
U S	1,266	1,242	1,550	1,684	1,590	2,139
ALL CIGAR TYPES						
TOTAL 41-61	1,885	1,850	1,847	31,254	25,111	21,147
ALL TOBACCO	2,001	2,028	2,134	1,163,940	1,190,674	1,348,124

1/ INCLUDES BINDER TYPES GROWN IN OHIO. 2/ ESTIMATES BEGIN WITH 1987.

SUGARBEETS 1/

STATE	AREA PLANTED			AREA HARVESTED		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES					
CALIF	192.0	219.0	215.0	188.0	216.0	212.0
COLO	37.8	37.4	39.1	37.2	37.0	38.6
IDAHO	161.0	163.0	168.0	160.0	162.0	166.0
MICH	137.0	144.0	152.0	110.0	142.0	145.0
MINN	315.0	311.0	339.0	311.0	310.0	334.0
MONT	47.2	49.2	49.6	46.8	48.9	48.9
NEBR	59.9	61.6	63.7	59.0	60.2	62.4
N MEX	2/	.6	.7	2/	.2	.7
N DAK	164.8	163.3	177.8	163.8	161.3	175.5
OHIO	15.6	16.8	17.3	15.0	16.2	14.7
OREG	13.0	13.9	14.1	12.9	13.7	13.8
TEX	37.2	32.8	34.0	37.0	31.5	33.0
WYO	51.0	54.1	56.5	50.5	53.4	56.0
U S	1,231.5	1,266.7	1,326.8	1,191.2	1,252.4	1,300.6
	YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988
	TONS			1,000 TONS		
CALIF	25.7	28.2	25.0	4,832	6,091	5,300
COLO	23.9	21.7	22.8	889	803	880
IDAHO	25.7	26.4	24.5	4,112	4,277	4,067
MICH	20.8	20.5	16.5	2,288	2,911	2,393
MINN	16.7	20.0	14.2	5,194	6,200	4,743
MONT	21.7	22.2	21.1	1,016	1,086	1,032
NEBR	23.5	18.3	21.2	1,387	1,102	1,323
N MEX	2/	10.0	12.9	2/	2	9
N DAK	17.9	19.6	14.7	2,932	3,161	2,580
OHIO	20.6	16.6	16.1	309	269	237
OREG	29.0	30.8	26.8	374	422	370
TEX	22.4	19.7	21.9	829	621	723
WYO	19.8	21.1	20.3	1,000	1,127	1,137
U S	21.1	22.4	19.1	25,162	28,072	24,794

1/ RELATES TO YEAR OF INTENDED HARVEST EXCEPT FOR OVERWINTERED SPRING PLANTED BEETS IN CALIF. 2/ NO ACREAGE.

MINT OIL

CROP AND STATE	AREA HARVESTED			YIELD		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES			POUNDS		
PEPPERMINT						
IDAHO	7.3	8.5	11.9	80	70	68
IND	5.7	5.7	7.2	40	41	27
OREG	35.0	35.5	40.0	67	69	71
WASH	10.9	11.5	16.5	89	87	86
WIS	5.3	4.6	4.9	38	36	20
U S	64.2	65.8	80.5	67	68	67
SPEARMINT						
IDAHO	2.8	2.6	1.9	90	72	87
IND	3.6	3.7	4.0	39	37	20
MICH	2.8	1.8	1.5	31	29	24
OREG	1.8	1.5	1.5	85	75	74
WASH	13.0	10.2	9.7	143	138	130
WIS	4.5	4.0	4.0	37	39	23
U S	28.5	23.8	22.6	93	86	77
PRODUCTION						
	1986		1987			1988
	1,000 POUNDS					
PEPPERMINT						
IDAHO	584		595			809
IND	228		234			194
OREG	2,345		2,450			2,840
WASH	970		1,001			1,419
WIS	201		166			98
U S	4,328		4,446			5,360
SPEARMINT						
IDAHO	252		187			165
IND	140		137			80
MICH	87		52			36
OREG	153		113			111
WASH	1,859		1,408			1,261
WIS	167		156			92
U S	2,658		2,053			1,745

SUGARCANE

STATE	AREA HARVESTED			YIELD		
	1986	1987	1988	1986	1987	1988
	1,000 ACRES			TONS		
FOR SUGAR						
FLA	390.0	402.0	408.0	33.1	32.3	32.9
HAW	83.6	79.5	79.0	100.2	100.8	95.5
LA	248.0	263.0	279.0	27.3	22.7	25.0
TEX	29.1	33.8	31.7	29.9	31.1	33.9
U S	750.7	778.3	797.7	38.5	36.0	36.4
FOR SEED:						
FLA	15.0	15.0	12.0	35.3	31.9	36.4
HAW	6.6	7.0	7.0	31.5	25.8	28.3
LA	22.0	22.0	26.0	27.3	22.7	25.0
TEX	1.9	1.3	1.5	18.9	25.4	30.0
U S	45.5	45.3	46.5	30.2	26.3	28.6
FOR SUGAR & SEED						
FLA	405.0	417.0	420.0	33.2	32.3	33.0
HAW	90.2	86.5	86.0	95.2	94.7	90.0
LA	270.0	285.0	305.0	27.3	22.7	25.0
TEX	31.0	35.1	33.2	29.3	30.9	33.7
U S	796.2	823.6	844.2	38.1	35.5	35.9
	PRODUCTION 1/					
	1986		1987		1988	
	1,000 TONS					
FOR SUGAR						
FLA	12,916		12,990		13,423	
HAW	8,379		8,014		7,545	
LA	6,770		5,970		6,975	
TEX	871		1,052		1,074	
U S	28,936		28,026		29,017	
FOR SEED:						
FLA	530		479		437	
HAW	208		181		198	
LA	607		499		650	
TEX	36		33		45	
U S	1,375		1,192		1,330	
FOR SUGAR & SEED						
FLA	13,446		13,469		13,860	
HAW	8,587		8,195		7,743	
LA	7,371		6,469		7,625	
TEX	907		1,085		1,119	
U S	30,311		29,218		30,347	

1/ NET TONS.

SUGAR AND MOLASSES PRODUCTION

SOURCE AND STATE	SUGAR						MOLASSES 1/		
	RAW VALUE			REFINED BASIS			1986	1987	1988 2/
	1986	1987	1988 2/	1986	1987	1988 2/	1986	1987	1988 2/
	1,000 TONS						1,000 GALLONS		
SUGAR-CANE									
FLA	1,476	1,517	1,474	1,379	1,418	1,378	92,879	90,145	92,700
LA	671	731	780	627	683	729	37,550	37,450	41,500
TEX	91	106	110	85	99	103	6,856	8,901	4,952
MAIN-LAND									
TOTAL	2,238	2,354	2,364	2,091	2,200	2,210	137,285	136,496	139,152
HAW	1,043	979	930	975	915	869	3/50,385	3/49,000	3/46,000
U S	3,281	3,333	3,294	3,066	3,115	3,079	187,670	185,496	185,152
SUGAR-BEETS									
U S	3,416	3,998	3,551	3,193	3,736	3,319			
CANE & BEETS									
U S	6,697	7,331	6,845	6,259	6,851	6,398			

1/ BLACKSTRAP (80° BRIX) INCLUDES HIGH-TEST MOLASSES FROM FROZEN CANE AND EDIBLE MOLASSES. 2/ PRELIMINARY. 3/ 85° BRIX.

COFFEE

STATE	AREA HARVESTED			YIELD			PRODUCTION 1/		
	1986-87	1987-88	1988-89	1986-87	1987-88	1988-89	1986-87	1987-88	1988-89
	ACRES			POUNDS			1,000 POUNDS		
HAW	2,000	2,050	2,150	1,500	878	884	3,000	1,800	1,900

1/ PARCHMENT BASIS.

TARO

STATE	AREA HARVESTED 1/			YIELD			PRODUCTION		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
	ACRES			POUNDS			1,000 POUNDS		
HAW	390	400	420	16,200	15,800	16,200	6,330	6,300	6,800

1/ AVERAGE DURING YEAR.

HOPS BY STATE AND VARIETY 1/

STATE AND VARIETY	AREA HARVESTED			YIELD		
	1986	1987	1988	1986	1987	1988
	ACRES			POUNDS		
CALIFORNIA 2/						
IDAHO						
CHINOOK		180	220	1,530	1,540	
CLUSTER		510	490	1,890	1,830	
EROICA		440	430	1,770	1,610	
GELENA		480	520	2,040	1,830	
WILLAMETTE		50	130	740	480	
OTHER VARIETIES		540	1,010	1,510	970	
TOTAL	2,500	2,200	2,800	2,040	1,750	1,400
OREGON						
FUGGLES		920	850	630	1,090	
GELENA		210	150	1,310	1,880	
NUGGET		1,450	1,470	2,030	2,040	
PERLE		210	330	740	1,120	
TETTNANG			470		1,100	
WILLAMETTE		2,695	3,700	1,520	1,340	
OTHER VARIETIES		515	530	1,470	1,840	
TOTAL	5,100	6,000	7,500	1,660	1,470	1,470
WASHINGTON						
AQUILA			320		1,520	
BANNER			340		1,650	
CASCADE		1,650	920	1,920	1,990	
CHINOOK		800	1,000	1,690	1,990	
CLUSTER		9,900	7,950	1,960	2,030	
EROICA		730	640	2,020	1,940	
GELENA		4,050	4,900	1,870	1,890	
NUGGET		1,400	1,800	1,870	1,620	
OLYMPIC		230	270	2,180	2,020	
PERLE		200	580	1,130	1,040	
TETTNANG		650	2,200	830	890	
WILLAMETTE			2,050		1,020	
OTHER VARIETIES		490	130	1,150	1,350	
TOTAL	17,400	20,100	23,100	2,040	1,860	1,720
U S	25,000	28,300	33,400	1,962	1,768	1,638

1/ ESTIMATES BY VARIETY BEGINS WITH THE 1987 CROP.

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

HOPS BY STATE AND VARIETY 1/

STATE AND VARIETY	PRODUCTION		
	1986	1987	1988
	1,000 POUNDS		
CALIFORNIA 2/			
IDAHO			
CHINOOK		275.4	338.8
CLUSTER		963.9	896.7
EROICA		778.8	692.3
GELENA		979.2	951.6
WILLAMETTE		37.0	62.4
OTHER VARIETIES		815.7	978.2
TOTAL	5,100.0	3,850.0	3,920.0
OREGON			
FUGGLES		581.6	926.5
GELENA		275.0	282.0
NUGGET		2,940.0	2,998.8
PERLE		155.0	369.6
TETTNANG			517.0
WILLAMETTE		4,090.0	4,958.0
OTHER VARIETIES		758.4	973.1
TOTAL	8,466.0	8,800.0	11,025.0
WASHINGTON			
AQUILA			487.0
BANNER			561.0
CASCADE		3,168.0	1,831.0
CHINOOK		1,352.0	1,990.0
CLUSTER		19,382.0	16,100.0
EROICA		1,475.0	1,242.0
GELENA		7,574.0	9,252.0
NUGGET		2,618.0	2,916.0
OLYMPIC		501.0	545.0
PERLE		226.0	603.0
TETTNANG		540.0	1,958.0
WILLAMETTE			2,091.0
OTHER VARIETIES		562.0	175.0
TOTAL	35,496.0	37,398	39,751
U S	49,062.0	50,048.0	54,696.0

1/ ESTIMATES BY VARIETY BEGINS WITH THE 1987 CROP.

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

ALASKA

CROP	: AREA PLANTED FOR ALL PURPOSES:			: AREA HARVESTED		
	: 1986	: 1987	: 1988	: 1986	: 1987	: 1988
	: ACRES					
OATS	: 5,600	: 5,700	: 2,200	: 300	: 800	: 600
BARLEY	: 8,000	: 6,000	: 5,300	: 7,000	: 5,300	: 4,700
ALL SILAGE	:	:	:	: 7,100	: 5,800	: 3,400
ALL HAY	:	:	:	: 14,400	: 16,500	: 15,900
POTATOES	: 620	: 850	: 850	: 550	: 750	: 800
	: YIELD			: PRODUCTION		
	: 1986	: 1987	: 1988	: 1986	: 1987	: 1988
	: 1,000					
OATS - BU	: 44.0	: 51.0	: 61.0	: 13.2	: 41.0	: 36.6
BARLEY - BU	: 29.5	: 41.5	: 48.5	: 207.0	: 220.0	: 228.0
ALL SILAGE - TON	: 3.6	: 5.09	: 3.76	: 26.1	: 29.5	: 12.8
ALL HAY - TON	: 1.18	: 1.23	: 1.55	: 17.0	: 20.3	: 24.7
POTATOES - CWT	: 225	: 197	: 255	: 124.0	: 148.0	: 204.0

## 1988 CROP SEASONS

### WINTER WHEAT:

Winter wheat seeding got off to an early start the latter part of August. By September 27, 50 percent of the acreage was seeded, 11 points ahead of normal. Dryness hampered seeding and germination in some Corn Belt States. Nebraska's wheat was 90 percent seeded, compared with 78 percent in 1986 and 81 percent average. Fifty-five percent of the acreage was emerged, 7 points behind 1986 but 5 points above normal. In Oklahoma, winter wheat seeding reached 45 percent completion, 20 points above normal. At 20 percent completion, emergence was 15 points above normal. Heavy rains caused some reseeded. Kansas wheat producers had sown 55 percent of their acreage compared with 60 percent in 1986 and 40 percent normally. Emergence had reached 20 percent completion. Weather conditions were ideal for seeding and emergence during the month.

Dryness restricted winter wheat seeding and germination in the Southeast and Pacific Northwest during most of October. The lack of moisture hampered growth and development in most areas. Seeding began the month considerably ahead of normal. By mid-month seeding was virtually finished in the northern and central Great Plains and Rocky Mountain States. By the end of the month, planting was 93 percent finished in the 20 major producing States, compared with 85 percent in 1986 and the 85 percent average. Eighty-five percent of the acreage was emerged, 8 points ahead of 1986 and 12 points above average. Winter wheat was mostly good to fair, but condition declined to fair to poor in Georgia, and poor to fair in Oregon by the end of October. In Kansas, seeding at 99 percent completion was 9 points ahead of normal. The lack of moisture for wheat germination and stand development before winter concerned producers in western and central areas. Leaf rust was present Statewide but was most prevalent in early-seeded wheat. Seeding was finished in Nebraska. Near the end of October, producers began irrigating in areas of high stress. Mild, dry conditions promoted Russian wheat aphid development. Winter wheat seeding trailed 5 and 14 points behind normal in Washington and Oregon, respectively, because of dryness.

Dryness, followed by rain, delayed winter wheat seeding in the Southeast, Delta, and southern Great Plains during most of November. However, the moisture was needed for germination and growth. By midmonth seeding was finished except in these areas and along the west coast. California seeding reached the halfway point at month's end. Seeding was 68 and 86 percent finished in South Carolina and North Carolina, respectively. Fifty-eight percent of the acreage was seeded in Georgia. Inadequate moisture plagued winter wheat development in the northern and central Great Plains the first half of the month. In Kansas, some wheat had trouble establishing proper root systems before dormancy. By the end of the month, wheat streak mosaic disease was at epidemic proportions in Kansas except in the eastcentral and southeastern part. Leaf rust was prevalent statewide. Greenbugs and aphids were active from North Dakota to Texas. Colder temperatures slowed insects in some areas but were not severe enough to eradicate them entirely. Rain hampered winter wheat seeding in the Southeast during December. Seeding progressed normally in California with minor delays. Above-normal temperatures melted most snow cover from Texas to North Dakota, until near the end of December. Late in the month, the melting snow provided much needed moisture in some areas. Cold temperatures swept though the central and northern Great Plains and Corn Belt but snow protection was ample most days. However, melting snow subjected wheat to low temperatures in some areas. Cool temperatures slowed growth and emergence in the Southwest. The cold temperatures eradicated disease and insect problems in the central and northern Great Plains. Winter wheat was under stress in dry areas of South Dakota at the end of December.

Winter wheat was mostly good to fair during January. Above-normal temperatures melted most snow cover in the central and northern Great Plains leaving winter wheat vulnerable to freeze damage during most of the month. However, snow protection was available during most periods of extreme low temperatures.

The melting snow provided much needed moisture, especially in South Dakota. Snow and low temperatures slowed winter wheat growth from Texas through the Delta and Southeast during the first half of January. The cold temperatures continued plaguing wheat growth in Texas until near the end of the month. By the end of January, Oklahoma's wheat began growing. In California, winter wheat seeding continued until the third week of January. Planting ended in Georgia around midmonth. Cool temperatures slowed emergence and growth early in the month in California. As the month drew to a close, wheat approached the jointing stage in Arizona. Winter wheat was mostly good to fair during February. However, crop condition was mostly fair to good in the northern and central Great Plains and Rocky Mountain States during most of the month. Outbursts of extremely cold temperatures surged across the eastern half of the Nation the first half of the month, but adequate snow cover protection kept damage at a minimum. Snow cover vanished the second half of the month but temperatures were warm enough to prevent serious damage. The cold weather stifled growth until midmonth but by month's end wheat broke dormancy as far north as Missouri. The warm temperatures promoted growth from Oklahoma southward. During February, dryness plagued wheat development in the northern Great Plains, especially in South Dakota. In Arizona, wheat reached the heading stage in western areas. Wheat grew well in California but began showing signs of moisture stress in dryland areas. Topdressing was active in the Southeast, Pacific Northwest, Corn Belt, northern and central Great Plains and Delta as the month ended. Winter wheat was mostly good to fair during March except in the northern and central Great Plains where condition ranged from poor to good. Temperatures were mostly above normal during March but intermittent periods of snow and cold temperatures kept wheat from getting off to a fast start throughout the eastern half of the Nation. The snow provided much needed moisture but wheat suffered from inadequate moisture in some areas of the northern and central Great Plains. By midmonth, greening was underway as far north as Montana. Jointing was underway in Oklahoma, Arizona, and California. Wheat began heading in California and Arizona shortly after midmonth. Before the month ended, wheat heading was underway in Alabama, South Carolina, Louisiana, and Texas. Kansas' wheat suffered disease and insect problems during the month.

In early April, small grains were mostly good to fair. Above-normal temperatures in the midsection of the Nation helped crop development. Inadequate soil moisture plagued growth in the central and northern Great Plains. Below-normal temperatures in mid-April restricted growth throughout most of the Great Plains and Corn Belt. At the end of April, heading had not begun in most Corn Belt States, the central and northern Great Plains, Pacific Northwest, and Rocky Mountain States. Winter wheat was mostly good to fair except in the northern Great Plains where dryness kept condition mostly fair. Inadequate moisture and disease plagued winter wheat in the central and northern Great Plains during May. Crop condition was mostly good to fair in the Corn Belt and Southeast. Despite significant precipitation at the end of May, wheat remained mostly fair in the central and northern Great Plains. The crop was 74 percent headed, 4 points ahead of normal. Wheat began turning color in the Corn Belt and central Great Plains. Harvest was underway in Oklahoma and Texas and gained momentum in the Delta and Southeast. The dry weather proved to be beneficial for the winter wheat harvest. At the beginning of June, only 3 percent of the acreage was harvested in the 20 major producing States. Six of the 20 major producing were combining wheat but all were behind normal. Near midmonth harvest reached 23 percent completion 6 points ahead of normal. From midmonth on combines roared through the central Great Plains and by July 3, 64 percent of the acreage was harvested. This was 6 points ahead of 1987 and 20 points above the 5-year average. Wheat harvest was virtually finished in Kansas, Oklahoma, Missouri, Illinois, Arkansas and Georgia. Combines roared through the central Great Plains and by mid-July, wheat harvest was 82 percent finished. This was 10 points ahead of normal and 7 points ahead of 1987. By month's end, 91 percent of the acreage was combined, compared with 87 percent normally. Wheat harvest was concentrated mostly in the Pacific Northwest but a few acres remained to be harvested in California, Colorado, and Michigan. By the end of August, harvest was nearly complete in the Pacific Northwest.

## OTHER CROPS:

In early January, precipitation prolonged cotton harvest in the southern Plains and soybean harvest in the Southeast. Freezing temperatures caused light damage to fruit and vegetable crops in California and Arizona. Avocados suffered the heaviest loss in California. By mid-month, cotton harvest was finished in Texas. Snow and sleet virtually halted harvest in Oklahoma until the last week of January. Producers in California and Arizona prepared land for seeding the 1988 crop. In the San Antonio-Winter Garden area of Texas, cold weather caused some minor damage to vegetables. Land preparation and spring planting were underway in the Trans-Pecos area. Near the end of the month, freezing temperatures caused light damage in Florida's citrus and vegetable producing areas. Cotton harvest was virtually complete in New Mexico.

Oklahoma's cotton harvest extended into February but neared completion the first week of the month. Cotton land preparation progressed rapidly in California and Arizona. By the end of the month, cotton planting was underway in Arizona. Snow, followed by quick melt-down, restricted fieldwork in the eastern half of the Nation during the first half of February. Rain continued hampering fieldwork most of the month in the Southeast and Delta. The last week of the month, warm, windy weather dried soils, opening the door for spring field activity to begin in the eastern half of the Nation. By mid-month, corn planting was underway in California and Texas. Seeding reached 7 percent completion in Texas as the month drew to a close. Sorghum planting was underway in the Coastal Bend and Rio Grande Valley areas of Texas. Fieldwork was limited mostly to spreading fertilizer in the Corn Belt during February.

Rain and snow limited fieldwork to mostly spreading fertilizer in the Central and northern Great Plains, Rocky Mountain, and Corn Belt States during most of March. Rain periodically slowed fieldwork in the Delta and Southeast. Dry soils accelerated land preparation and seeding in Arizona and California. Cotton planting was underway at the beginning of March in Arizona and Texas. Planting progressed rapidly, ending the month 35 percent finished in Arizona. Texas seedings were 10 percent finished compared with 7 percent normally. Planting began in California around mid-month and progressed well the rest of March. March started with corn planting underway in Arizona, Georgia, Louisiana, Mississippi, and Texas. Planting was just beginning in Georgia, Louisiana, and Mississippi but was 22 percent finished in Texas. By the end of the month, planting had moved as far North as Kansas and Missouri. Planting spread across the Southeast as the month progressed but lagged behind normal in most States. North Carolina's acreage was 17 percent seeded on April 3, compared with 22 percent normally. Georgia's seeding trailed 9 points behind normal at 34 percent completion. Seeding was 12 points ahead of normal in Alabama. Sorghum seeding was restricted to Texas with 49 percent of the acreage planted. Planting started in Alabama as the month drew to a close. Wet weather slowed rice planting in Louisiana and Texas. By the end of March, seeding was 15 points behind normal in Louisiana and 4 points behind normal in Texas. Tobacco transplanting was underway by mid-month in Georgia and Florida. Tobacco bed preparation and seeding was active from Virginia to Tennessee.

Rain, sometimes snow, and unseasonably cold temperatures interrupted seeding and land preparation in the central and southern Great Plains and Corn Belt during April. With the exception of snow, much the same was true for the Delta and Southeast. Above-normal temperatures and dry weather dominated the northern Great Plains during most of the month as evidenced by the rapid seeding of spring small grains. Intermittent precipitation gave some relief, but for the most part, the lack of moisture hampered winter small grain growth and development. Corn planting was limited to the southern half of the Nation at the beginning of April. By the second week of the month, planting moved as far north as Nebraska. Planting progressed normally until the last week of the month, when 21 percent of the acreage was seeded in the 17 major producing States. The month ended with 36 percent of the corn acreage planted compared with 43 percent in 1987 and 24 percent average. At month's end, cotton seeding was 33 percent finished, 3 points below 1987 but 2 points above normal. Planting lagged behind normal in the Delta and Southeast as a result of wetness and low soil temperatures. Planting lagged behind normal in 8 of the 14 major producing States and by as much as 25 points in North Carolina and 30 points in South Carolina. Rain, cool weather, and crusting soils caused some replanting in Arizona and California. Sorghum seeding reached 19 percent completion by the beginning of May. Seeding was slightly behind normal.

Planting was underway in all major producing States except Kansas and South Dakota. Rice was 54 percent seeded and 20 percent emerged on May 1. Seeding was 5 points ahead of normal but emergence trailed 17 points behind the average. Rice planting lagged behind normal until the last week of the month. Soybean planting was just getting underway as the month ended. Planting reached 2 percent completion, just slightly ahead of normal. Spring wheat planting advanced rapidly during the month. On April 17, 32 percent of the acreage was seeded, four times normal progress. Seeding continued ahead of normal reaching 78 percent completion by month's end. Planting neared completion in South Dakota. Spring wheat emergence was at 19 percent compared with 17 percent normally.

Dryness characterized most of the month of May. Precipitation at key periods during the month kept the dry conditions from becoming severe in most areas. Planting ceased momentarily in some areas of the Corn Belt, Delta, Southeast, and central Great Plains until soil moisture improved. The dryness caused some reseeding in most areas of the Nation. Corn began the month 36 percent seeded, 7 points behind 1987 but 12 points above normal. By mid-month, planting equaled the fast pace set in 1987 at 88% completion. At this point seeding was 22 points ahead of normal. At the end of the third week of May, planting was finished or neared completion except in Pennsylvania and South Dakota. Corn reached the silking stage in some Southeast and Delta States and the dough stage in Texas by the end of May. Cotton planting progressed normally to slightly ahead of normal during May. The month ended with 78 percent of the cotton acreage planted, 2 points above normal. Cotton planting was mostly finished except in Oklahoma and Texas. Poor germination caused above-normal replanting in the western States and Delta. By month's end, cotton was squaring and setting bolls in Arizona and Texas. Soybeans were 74 percent seeded on May 29 surpassing the sizzling seeding pace accomplished in 1987. Planting was 21 points above the 5-year average. Seeding approached completion in the Corn Belt and was more than 50 percent finished in the central Great Plains. Dryness plagued seeding in the Southeast and Delta during most of the month. Sorghum was 58 percent seeded by the end of May. This compares with 54 percent seeded in 1987 and 47 percent normally. Dryness hampered seeding in Oklahoma until near the end of month when seeding jumped 40 points. Planting accelerated in the central Great Plains the last week of May. Sorghum was heading and turning color in Texas. Rice was virtually seeded by the end of May. Only 5 percent remained to be planted in California and 2 percent each in Arkansas and Louisiana. Dry weather caused uneven emergence in Arkansas. Spring wheat was virtually planted by mid-month with the exception of Idaho and North Dakota. Spring wheat was mostly fair to good as the month drew to a close. The lack of moisture began taking its toll at the end of May, especially in Montana. Jointing was underway in Idaho and Montana.

June began with extremely dry conditions in the northern Rocky Mountain States and most of the eastern half of the Nation. As the month progressed, crop condition worsened, especially from Montana through the northern Great Plains into the Corn Belt. Near mid-month, precipitation across the northern Great Plains did very little to ease the drought and improve crop condition. The lack of moisture, combined with high temperatures, continued stressing crops and limiting growth throughout most of the eastern half of the Nation. Plants wilted in some areas as moisture supplies declined. The third week of June, triple-digit temperatures further aggravated the drought. Corn, cotton, soybean, sorghum, and spring wheat condition continued declining. Precipitation and lower temperatures eased drought stress in the Great Plains, Delta, and western Corn Belt. The lower temperatures eased stress in the central and eastern Corn Belt, and Appalachian States, but inadequate moisture plagued crop development and growth. Despite the precipitation, crops showed very little improvement. Corn began the month mostly good to fair but condition declined to mostly fair by month's end. Inadequate moisture hindered growth and development in most areas during June. By July 3, 6 percent of the acreage was silking, compared with 17 percent in 1987 and 8 percent normally. Silking was underway in all major producing States except Colorado, Michigan, Minnesota, Pennsylvania, South Dakota, and Wisconsin. Corn reached the dent stage in Alabama, Georgia, and Texas. Soybeans were virtually all planted in the Corn Belt and central Great Plains by the end of June. Dryness nearly halted planting in the Delta, Southeast, and Appalachian States until the end of the month. Precipitation allowed planting to resume in the Delta and Southeast where more than 10 percent of the acreage remained to be planted. Soybeans were blooming in all major producing States except Michigan, North Carolina, Ohio, and South Carolina by the end of June. Seventeen percent of the acreage was blooming, nearly doubling the average.

Soybeans were in mostly fair condition. By mid-June, cotton planting was finished except in Oklahoma and Texas. On July 3, planting was near completion in these States. In the 14 major producing States, squaring was 10 points ahead of the 50 percent average and slightly ahead of 1987. Eleven percent of the acreage had set bolls, compared with 18 percent in 1987 and 14 percent normally. At the end of June, dryness left cotton mostly fair to poor except in the southern Great Plains and Southwest where condition was mostly good to fair. Sorghum was virtually planted by the end of June but a few acres remained to be planted in Oklahoma and Texas. Sorghum was heading in Arkansas, Oklahoma, Texas, and Louisiana. In Texas, harvest started in the Rio Grande Valley, Coastal Bend, and along the Upper Coast. Rice was 7 percent headed, 2 points below average on July 3rd. Heading was limited to Louisiana and Mississippi. Spring wheat was 87 percent headed, 30 points ahead of normal by July 3. Heading was finished in South Dakota and neared completion in Minnesota. Inadequate moisture plagued crop development and growth in the northern Great Plains and Rocky Mountain States the entire month. Crop condition was mostly poor except in Idaho where condition was mostly good.

July began with crops still suffering from the effects of the drought in the Great Plains, Corn Belt, Delta, Appalachian States, Southeast, and Rocky Mountain States. The drought was most pronounced in the central and eastern Corn Belt. Early in the month, precipitation improved crops in the central Great Plains, Delta, and Southeast, but high temperatures and the shortage of moisture continued taking its toll on crops in the central and eastern Corn Belt. The second week of July, moisture provided more relief from the drought in the northern Corn Belt, central and southern Great Plains, Delta, Appalachian States, and Southeast. Shortly after mid-month, rain arrived in the central and eastern Corn Belt, but crops showed little improvement. The precipitation gave most crops a boost in the central and southern Great Plains, Delta, and Southeast. As the month drew to a close, high temperatures returned, depleting soil moisture and stressing crops in the northern Great Plains. Much of the gain accomplished in restoring soil moisture earlier in the month was lost as temperatures approached or exceeded the century mark in the western Corn Belt, Great Plains, and northern Rocky Mountain States. In the central and eastern Corn Belt, crops improved with additional moisture. During July, corn was mostly fair to poor. The hot, dry weather forced corn through the silking stage much faster than normal but curbed growth and ear formation. On July 31, silking was 90 percent finished, compared with 94 percent in 1987 and 79 percent normally. Nineteen percent of the acreage had ears in the dough stage or beyond, but lagged 4 points behind normal. Harvest was underway in Alabama, Georgia, Louisiana, and Texas. Soybeans were mostly fair during July. The crop responded to moisture, especially near the end of the month and in the central and eastern Corn Belt. Dryness and high temperatures caused problems in the northern Great Plains as the month ended. On July 31, 76 percent of the acreage had bloomed and 41 percent was setting pods. Normally 72 percent would be blooming and 34 percent would be setting pods. In some major producing States, insects compounded the effects of the drought. Sorghum was 44 percent headed, 11 points slower than in 1987 but 3 points faster than normal. Twenty-eight percent of the acreage turned color, compared with 31 percent in 1987 and 32 percent normally. Harvest was ending in most southern areas of Texas. Harvest was underway in some southeastern States. The hot, humid weather was well suited to cotton development and growth, especially in the Delta, Southeast, and southern Great Plains. Cotton improved steadily, ending the month mostly good to fair. During the month, cotton progressed well in California and Arizona. In California and Texas, some cotton aborted squares because of hot weather stress. Cotton squaring ended the month 7 points above the 62 percent average. Five percent of the acreage had bolls open, just slightly above normal. Bolls were opening in Alabama, California, Georgia, Louisiana, Mississippi, and Texas. Harvest began the second week of July in Texas. Spring wheat harvest leaped to 52 percent completion by the end of July. Harvest progressed nearly eight times faster than normal and was 35 points ahead of 1987. South Dakota's harvest reached 90 percent completion, compared with the 29 percent average. Harvest was just beginning in Idaho.

As August began, hot, dry weather persisted throughout most of the eastern half of the Nation, but precipitation gave some relief in the central and northern Great Plains, Southeast, western Corn Belt, and Indiana. Crop condition remained fairly stable but without moisture began declining in some States. The rains continued but crops showed little improvement.

At mid-month, severe heat returned, stressing crops throughout most of the eastern half of the Nation. The extreme high temperatures and the lack of moisture hastened crop maturity. Cotton and soybean plants wilted and began dropping fruit in some areas. The last week of August, cooler temperatures brought relief to crops in the northern Great Plains and Corn Belt and precipitation relieved crop stress in much of the Corn Belt, Delta, and Southeast. During August, corn was mostly poor to fair. On August 28, most of the acreage had reached the dough stage. Seventy percent of the acreage was in the dent stage, compared with 80 percent in 1987 and 53 percent normally. Corn mature was 7 points ahead of the average but trailed 8 points behind 1987. Corn harvest was underway as far North as Missouri as the month drew to a close. In Georgia, harvest reached 42 percent completion but lagged 12 points behind the 54 percent average. Harvest was active in Alabama, Louisiana, Mississippi, South Carolina, and Texas. The precipitation and cooler temperatures provided relief from the heat but soybean condition remained mostly fair during the month. The heat hastened maturity with soybeans turning yellow much sooner than normal. By mid-month, soybeans turned yellow in Minnesota, Illinois, Indiana, Iowa, and Alabama and dropped leaves in Minnesota. Before the month ended, soybeans were dropping leaves in all major producing States except Arkansas, Michigan, Nebraska, North Carolina, Ohio, and South Carolina. Seven percent of the acreage was dropping leaves, more than doubling the average but 3 points behind 1987. Soybeans setting pods equaled the average at 89 percent completion. Soybeans blooming were mostly finished except in the Southeast and Delta. Cotton endured the hot, dry weather better than most crops and was good to fair the entire month. Crop condition declined slightly as the month progressed. In California and Arizona, the hot weather caused plants to drop squares and bolls early in the month. Oklahoma's cotton experienced heat stress near mid-month with some stands wilting and plants dropping bolls. Prolonged dryness caused heavy boll shedding in scattered fields in the Texas Plains. Near the end of August, 23 percent of the cotton acreage reached the boll opening stage, compared with 33 percent in 1987 and 23 percent normally. In Texas, harvest was 12 percent finished, 3 points above 1987 and the average. Harvest was underway in Arkansas, Arizona, and Louisiana. Producers applied defoliant in California and Mississippi. Grain sorghum was 93 percent headed, compared with 89 percent normally. Forty-seven percent of the acreage turned color, 2 points ahead of average but 9 points behind 1987. Harvest was underway in Texas, South Carolina, North Carolina, Arkansas, Alabama, and Louisiana. Spring wheat harvest was virtually finished by the third week of August. A few fields remained to be harvested in Idaho, Montana, and North Dakota as the month drew to a close.

Dry weather early in September accelerated crop development in the central and northern Plains States. Heavy rains slowed crop maturity in the Southeast. Crop development lagged behind normal in the Ohio Valley. Rain in the central and southeastern areas improved soil moisture conditions about mid-month. Soil moisture in the central Plains was mostly short early in the month and short to adequate by month's end. Soil moisture in the South and East was mostly adequate. Harvest was ahead of normal in the central and northern Plains States. Crop maturity and harvest continued to lag behind normal in most of the East. Corn was 91 percent mature, 5 points behind 1987 but equal to the 5-year average. Maturity was ahead of normal in the central and northern Plains States but lagged far behind normal in Michigan, Ohio, and Pennsylvania. Harvest was 32 percent complete, 6 points behind 1987 but 10 points ahead of normal. Harvest was far ahead of normal in Iowa, Kansas, and Minnesota. Iowa's harvest was 50 percent finished, 33 points ahead of normal. Harvest was 40 percent complete, 12 points ahead of normal in Illinois. Corn borers damaged some corn in eastern Nebraska. Nebraska's harvest was 30 percent complete, 18 points ahead of normal. Harvest was nearing completion in Georgia and Texas. By the end of September, 78 percent of the soybean acreage had reached the leaf dropping stage, 5 points behind 1987 but 1 point ahead of normal. Soybeans were just beginning to drop leaves in the Carolinas but were nearing completion in the western Corn Belt. The percent of acreage dropping leaves lagged behind normal in Michigan, Ohio, and most of the South. Soybean harvest was 29 percent finished, 9 points behind 1987 but 9 points ahead of normal. Harvest was far ahead of normal in Iowa, Kansas, and Minnesota. Iowa's harvest was 48 percent complete, 21 points ahead of the average. Harvest was 50 percent complete, 13 points ahead of normal in Illinois. Illinois producers harvested nearly one-third of their soybean acreage during the last week of September.

In October, harvest continued far ahead of normal in the central and northern Plains and western Corn Belt. Rain and cool temperatures slowed crop maturity and harvest in the South and portions of the Corn Belt. By the end of October, harvest was nearly complete in the central and northern Plains and western Corn Belt but trailed behind normal in the eastern Corn Belt and the Southeast.

At the beginning of the month, corn harvest was 32 percent complete, 10 points ahead of normal. By month's end, harvest was 83 percent complete, 16 points ahead of normal. Harvest was more than 25 points ahead of normal in Iowa and Nebraska and more than 30 points ahead in Minnesota, South Dakota, and Wisconsin. Soybean harvest began the month 9 points ahead of normal and by month's end was 79 percent complete, 11 points ahead of normal. Cotton harvest ended the month 48 percent finished, 6 points behind 1987 but slightly ahead of the 45 percent normal. Rain interrupted harvest in Arizona the third week of the month. On October 30th, Arizona's harvest was 17 points behind normal. Harvest progress was behind normal in the Southeast. Sorghum harvest was 82 percent finished, 13 points ahead of normal. Harvest was normal or ahead of normal in all the major producing States except Oklahoma. Oklahoma's harvest was 20 points behind normal.

Harvest was nearly complete in the central and northern Plains by mid-November. Rain delayed cotton and soybean harvests in the Delta and eastern Corn Belt the second half of the month. Cotton and soybean harvests were still ahead of normal at month's end. Corn harvest was 90 percent complete, 12 points ahead of normal by November 6th. Harvest was complete in Iowa and Texas and nearly complete in Georgia, Illinois, Kansas, Minnesota, and Missouri. By mid-month, harvest was complete or nearly complete in most of the 17 major producing States. In Michigan, Ohio, and Pennsylvania, harvest was slowed by rain and was behind normal. Rain continued to slow harvest in the eastern Corn Belt the last half of the month. By month's end, harvest was still behind normal in Michigan and Pennsylvania. On November 27th, Michigan's harvest was 85 percent complete and Pennsylvania's was 76 percent complete. By the end of the first week in November, soybean harvest was complete in Iowa, Nebraska, and South Dakota and nearly complete in Illinois, Kansas, and Minnesota. By November 27th, harvest in the 19 major producing States was 95 percent finished, slightly ahead of the 92 percent average. Rain and wet field conditions slowed harvest in the Delta and eastern Corn Belt the last half of the month. At month's end, Michigan's harvest was 80 percent finished, 16 points behind normal. In Alabama and Mississippi, harvest was 7 points and 10 points behind normal, respectively. Harvest was ahead of normal in the Southeast. North Carolina's harvest was 63 percent complete, 8 points ahead of normal. In South Carolina, harvest was 11 points ahead of the 54 percent average. Cotton harvest was ahead of normal in all the major producing States except Arizona, Georgia, and South Carolina, in early November. In the 14 major producing States, harvest was 64 percent complete, 6 points ahead of the average on November 13th. Arizona and South Carolina's harvests were 5 points behind normal and Georgia's was 4 points behind. During the third week of November, a killing frost accelerated defoliation in Oklahoma and Texas. California's harvest was slowed by rain but was nearly complete. By November 27, harvest in the major producing States was 75 percent complete, 5 points ahead of normal. The last week of November, rain slowed harvest in central and eastern Arizona. Texas' harvest was 57 percent finished, 8 points ahead of the average. Snow delayed harvest in the Plains area. Georgia's harvest was slowed by rain and was 3 points behind the 89 percent normal. Oklahoma's harvest was 55 percent complete, 25 points ahead of the average.

Cotton harvest was normal or ahead of normal early in December. Harvest was 92 percent complete, 7 points ahead of normal by December 11. Most of the unharvested acreage was in New Mexico, Oklahoma, and Texas. Harvest progress was slowed by rain and snow early in the month in those states. Snow, ice, and blowing sand reduced the quality of the unharvested crop in Texas. Soybean harvest was still in progress in the Delta, the Southeast, and portions of the eastern Corn Belt. By mid month, soybean harvest was nearly complete except in the Southeast. Cotton harvest was nearly complete by the end of December. Producers in Arizona, California, and Texas began preparation for seeding the 1989 cotton crop late in the month. Soybean harvest was nearly complete in the Southeast at month's end.

## 1988 WEATHER REVIEW

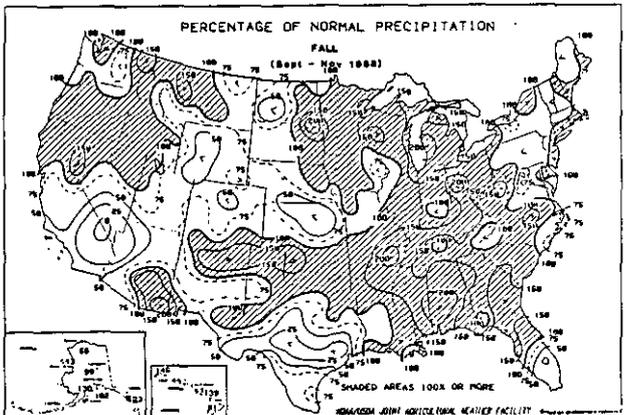
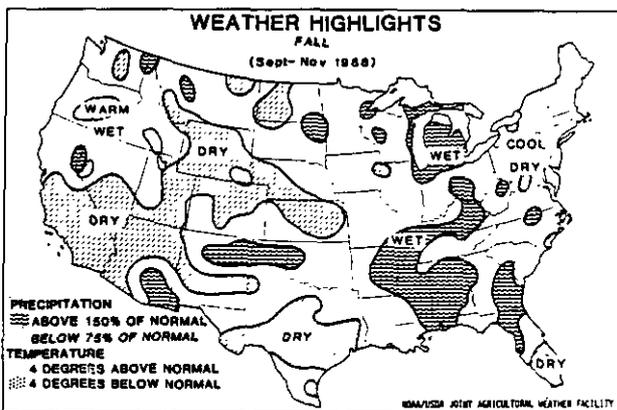
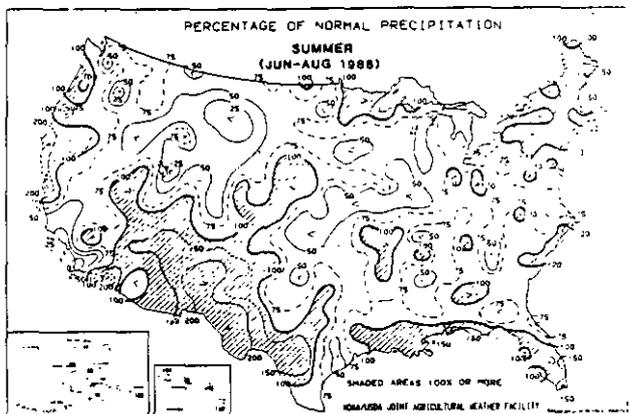
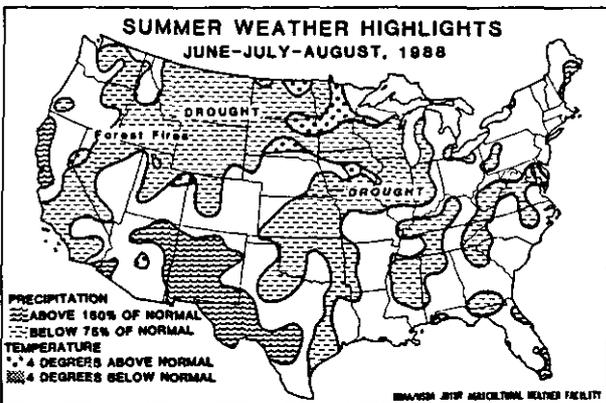
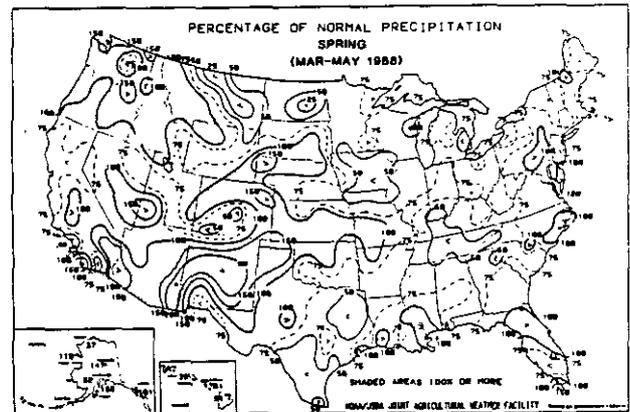
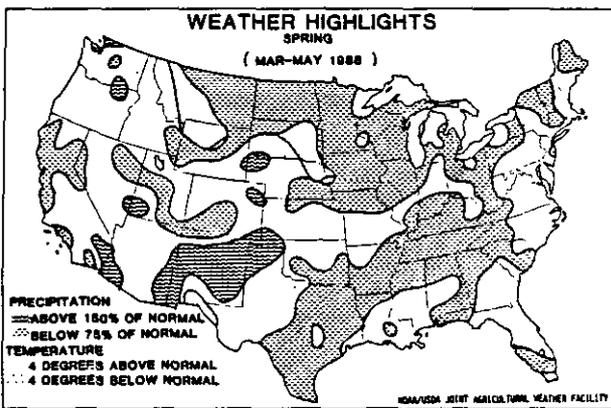
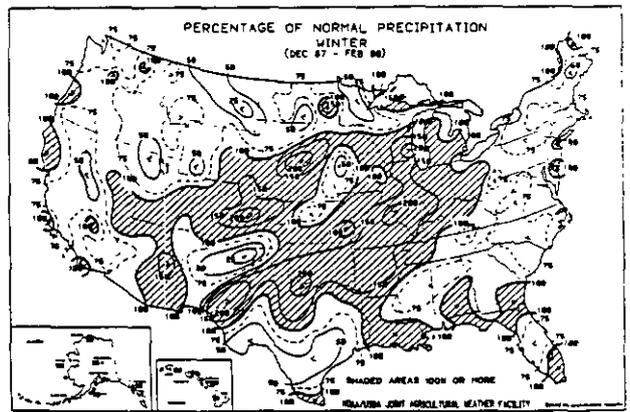
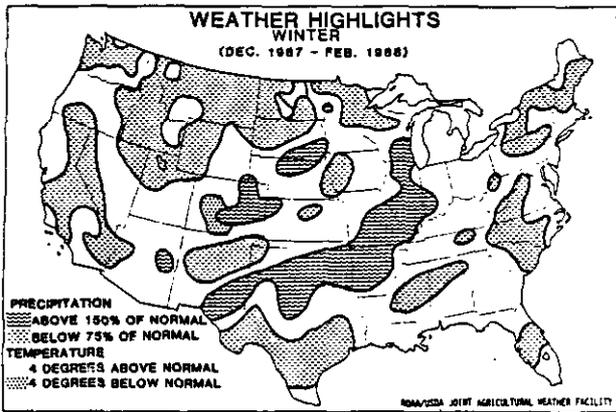
During the winter, the Pacific coast and the northern areas of the Nation were generally warmer and drier than normal while the central and southern Plains were colder than normal. Most of the Nation experienced a warm, dry spring but rains brought relief to prolonged dryness in western Washington and Oregon. The summer was one of the hottest and driest on record but in July a series of frontal systems brought cooler air and rain to the eastern half of the country. Precipitation in the fall relieved or ended long term moisture deficits in much of the midwest, east, and northwest areas of the country.

**WINTER (December 1987-February 1988):** Temperatures in the northern Plains were generally warmer than normal. The Pacific coastal region and Arizona also had above-normal temperatures. The central and southern High Plains were somewhat colder than normal while the Northeast and the Great Lakes region were slightly warmer than normal. Elsewhere east of the Mississippi, average temperatures were near normal to normal. Arizona, the central and southern Plains, and the Mississippi, Ohio, and Tennessee Valleys were wetter than normal along with the gulf coast and southern Florida. The Pacific Northwest, California, the northern Great Basin, and the northern Plains were drier than normal as well as most of the eastern third of the Nation.

**SPRING (March-May):** Much of the Nation experienced a warm, dry spring. The prolonged drought continued across the northern Plains as high temperatures exacerbated conditions. Most of the Mississippi, Missouri, Ohio, and Tennessee Valleys, eastern Texas, and the Southeast received well-below-normal precipitation. Spring rains brought relief to prolonged dryness in western Washington and Oregon.

**SUMMER (June-August):** Drought conditions covered much of the West and midwest. The summer was one of the hottest and driest on record. Temperatures were abnormally severe across the northern half of the Nation as numerous high temperature records were broken. Areas most affected by the drought included the crop areas and forest land in the West, northern Rockies, northern Plains, Corn Belt, and Tennessee Valley. At summer's end, a series of frontal systems brought cooler air and rain to the eastern half of the country, but the Northwest remained hot and dry as smoke from forest fires obscured skies.

**FALL (September-November):** Much of the eastern half of the country and the Northwest received above-normal precipitation, relieving or ending long term moisture deficits in the previously drought-stricken Mississippi, Ohio, and Tennessee Valleys. In contrast, abnormally dry conditions persisted in the northern and central Plains and central Rockies. Dry weather also prevailed over southern Texas and southern Florida, which had the driest autumn in the past 50 years. Late in the season, severe thunderstorms spawned late-season tornadoes in the middle and lower Mississippi Valley and the Southeast. Unseasonably mild weather persisted throughout the western third of the Nation and along the Gulf coast. Cold fronts brought surges of cold Canadian air that kept average temperatures below normal in much of the East.



## PLANTED ACREAGE OF PRINCIPAL CROPS UP

Area of principal crops planted or grown in 1988 totaled 308 million acres, up 3.2 million acres from 1987. Hay showed the largest acreage increase -- 4.8 million acres, followed by cotton with a 2.1 million acre increase, corn with a 1.9 million acre increase, and soybeans with a 0.9 million acre increase. The acreage increases were partially offset by an oats acreage decrease of 4.0 million. Sorghum, barley, and wheat also showed decreases from last year. Harvested area of principal crops totaled 290 million acres, up 449 thousand acres from 1987.

**CORN:** The 1988 corn for grain production is estimated at 4.92 billion bushels, down 30 percent from last year's production. The U.S. yield is 84.6 bushels per acre, down sharply from the record high of 119.4 set last year.

Growers planted 67.6 million acres of corn in 1988, up 3 percent from last year. The area harvested for grain is estimated at 58.2 million acres, 2 percent less than last year. Corn cut for silage in 1988 is estimated at 8.30 million acres, up 42 percent from last year and the first increase since 1980. The average yield per acre is 9.51 tons, down from 14.5 tons in 1987. Production of silage, at 78.9 million tons, is down 7 percent from last year.

Planting of the 1988 corn crop got off to a good start and progress was well ahead of normal. By mid-May, planting equaled the fast pace set in 1987 at 88 percent completed. By the first of July, corn had reached the silking stage in the Corn Belt. By that time the drought of 1988 was in full swing and in some areas there was great concern of not making a crop. Drought conditions prevailed in most of the major producing areas during July. Widely scattered showers provided relief in local areas.

Harvest was 83 percent complete by the end of October, 7 percent behind last year but 16 percent ahead of the 1983-87 average. The acreage for forage and abandonment, at 1.16 million acres, was nearly double the 667 thousand acres last year.

**SORGHUM:** The 1988 sorghum grain production is estimated at 578 million bushels, up 6 percent from the November 1 forecast, but down 22 percent from 1987. This is the lowest production level since 1964. Area harvested for grain is estimated at 9.05 million acres, 15 percent less than last year, but up slightly from the November 1 forecast. Average yields, at 63.8 bushels per acre, are down 5.9 bushels from 1987's record high, but are 3.2 bushels per acre above November 1.

Sorghum silage production is estimated at 5.45 million tons, up 6 percent from 1987. Yields dipped to 9.9 tons per acre - the lowest average since 1980. Area cut for silage jumped to 548 thousand acres, up 29 percent from 1987.

Most State's grain yields were lower than in 1987. Arizona, Colorado, and New Mexico yields are higher than last year; New Mexico is at a record high. Arkansas and Texas averages equaled the 1987 level.

**OATS:** Production of oats in 1988 is estimated at 219 million bushels, 42 percent below the 1987 crop, and smaller than any crop since estimates were first made in 1866. The area harvested at 5.59 million acres is down 19 percent from last year.

The yield for grain averaged 39.1 bushels per acre, down 14.9 bushels from last year's yield of 54.0 bushels. Seeded area totaled 13.9 million acres in 1988, down 22 percent from 1987.

Planting of the oat crop in the major producing North-Central States was completed ahead of normal as a result of the abnormally dry months of April and May. The extreme drought conditions during June and July caused heat and moisture stress in these States. The drought conditions forced early maturity and decreased yield potential. As a result of the drought, Iowa was the leading oat producing State surpassing the Dakotas and Minnesota. Production in many Southeastern States was up sharply from 1987.

BARLEY: Barley production in 1988 is estimated at 291 million bushels, 45 percent below last year's crop of 530 million bushels. This year's production was the lowest since the 1953 crop, when 247 million bushels were produced. Average yield per acre is 38.6 bushels, down 14.1 bushels from the 1987 yield.

The area harvested for grain in 1988 totaled 7.54 million acres, down 25 percent from last year.

Barley seeding in the Dakotas, Minnesota, and Montana was completed ahead of normal due to unseasonably dry conditions during April and May. Record high temperatures in June caused rapid plant development, but extreme drought conditions stressed plants. Harvest in these States started early and was completed two to three weeks ahead of normal. Idaho had a more normal growing season and was the number one barley producing State in 1988.

ALL WHEAT: Production for 1988 is estimated at 1.81 billion bushels—the lowest level in 10 years. The production estimate is down 14 percent from 1987. Acres cut for grain totaled 53.2 million this year, down 5 percent from 1987. Yields averaged 34.1 bushels per acre, down 3.6 bushels from last year.

WINTER WHEAT: The 1988 production estimate is 1.56 billion bushels, virtually unchanged from 1987. Growers averaged 39.2 bushels per harvested acre, 0.6 bushels less than in 1987, but still the fourth highest on record. Harvested area is up 1 percent from 1987, at 39.8 million acres. These estimates are unchanged from October 1988.

DURUM WHEAT: This year's production is now estimated at 44.8 million bushels, down 52 percent from 1987 and 3 percent less than the October estimate. This is the lowest production level since 1961. Area for grain is now estimated at 2.85 million acres, down 13 percent from 1987 and 3 percent less than October. The average yield is unchanged from October at 15.7 bushels per acre. The production decline comes primarily from a further reduction in acres harvested in North Dakota. Wrap-up of Montana's harvest resulted in a lower yield than originally estimated.

OTHER SPRING WHEAT: Further review of the drought-reduced 1988 crop has resulted in a minor net acreage adjustment and a fractional increase in production from the October estimate. Production is now estimated at 205 million bushels - still the lowest since 1969 and still down 54 percent from 1987. Area for grain is 10.5 million acres, off 21 percent from 1987. Net yield is 19.5 bushels per acre, up 0.1 from October.

RYE: The 1988 rye crop estimates published in October are the same except for a lower yield and production in Oregon. This change results in a 1988 U.S. production of 15.0 million bushels, down 24 percent from 1987.

RICE: Rice production for 1988 is estimated at 160 million hundredweight, 23 percent above 1987 and 20 percent above 1986. This is the largest production since 1981. Area harvested totaled 2.90 million acres, up 24 percent from 1987 and 23 percent above 1986. This is the largest acreage harvested since 1982. Yield averaged 5511 pounds per acre, down 44 pounds from 1987 and down 140 pounds from the record yield of 5651 pounds per acre set in 1986. Yields declined from 1987 in California, Louisiana, and Missouri. California's yield, at 7000 pounds per acre, was down 550 pounds from last year. Yields were higher than the previous year in Arkansas, Mississippi, and Texas. The largest yield increase was in Mississippi where the yield was 5300 pounds per acre, 200 pounds above 1987.

Long grain production is 119 million hundredweight, up 33 percent from 1987. Medium grain production is 37.6 million hundredweight, slightly below the 37.7 million hundredweight produced in 1987. Short grain rose 11 percent from the previous year to 3.29 million hundredweight.

Wet weather slowed rice seeding in Louisiana and Texas in late March. Seeding was just beginning in Arkansas and Mississippi. By the end of April, seeding was slightly ahead of normal. Dry weather during May caused uneven emergence in Arkansas. By the end of May, seeding was nearly complete. Crop emergence was slightly ahead of normal. By the end of June, rice was heading in Louisiana and Texas. Crop development lagged behind normal in July. At the end of the month, heading was 11 points behind normal. Harvest was underway in Louisiana and Texas. By the end of August, heading was nearly complete except in California. Harvest made good progress in Texas but was slowed by rain in Louisiana. Harvest was just beginning in Arkansas, California, and Mississippi. At the end of September, harvest was complete in Texas and nearly complete in Louisiana. Harvest was complete in the Delta by mid-October. By the end of October, harvest was nearly complete in California.

**SOYBEANS:** Production for 1988 is estimated at 1.54 billion bushels, 20 percent below last year and the lowest production since 1976. Area planted, at 58.9 million acres, and harvested area, at 57.4 million acres, increased 2 and 1 percent, respectively, from a year ago. Yield averaged 26.8 bushels per acre, 6.9 bushels below 1987 and the lowest yield per acre since 1983.

Yields in the Midwest were all below 1987 levels because of drought conditions. Wisconsin had the largest drop in yield per acre, falling 15 bushels from last year's record yield. North Dakota's yield, at 18.1 bushels per acre and Minnesota's yield, at 26 bushels per acre, dropped 14.5 and 13.0 bushels per acre, respectively, from the previous year. Iowa and Indiana were 12.5 bushels below their 1987 yield at 31.0 and 27.5 bushels per acre respectively. Illinois and Ohio had a yield of 27.0 bushels per acre in 1988, down 11 and 10 bushels per acre from 1987. Other Midwestern States having yield reductions from 1987 include South Dakota -8.5 bushels; Michigan - 7.0 bushels; Missouri - 6.0 bushels and Nebraska - 5.5 bushels per acre.

In the East and South yields improved from last year in all States except New Jersey and Pennsylvania, down 4 and 2 bushels respectively. The most northern growing areas along the Atlantic Coast showed the largest yield increases from 1987 as Delaware jumped 9 bushels, Maryland rose 8.5 bushels and Virginia improved 7 bushels per acre. Alabama had the largest increase in the Southeast, up 8.5 bushels per acre from last year's poor growing season. Georgia's yield increased 5 bushels, Louisiana and Florida were up 4 bushels, Tennessee and Arkansas improved 3 bushels, Mississippi and North Carolina rose 2.5 bushels and Kentucky and South Carolina recorded a 1.5 bushel per acre increase from 1987.

Soybean plantings proceeded ahead of normal in most areas of the nation through the middle of June. However, soil conditions in June slowed planting progress in the South and Southeast. Good prices and an early wheat harvest encouraged farmers to plant soybeans even with limited soil moisture. During July the crop was mostly fair to poor because of dry conditions. In August, growing conditions varied but heat and moisture stress continued to affect much of the Midwest. Precipitation in the coastal States during August helped to maintain and improve crop conditions. Growing conditions continued to be good in the southern and Atlantic coast States during September. Harvest began early in the Midwest and was well ahead of normal except in Michigan and Ohio by the end of October. While harvest was 2 weeks ahead of schedule in some Midwestern States, it was near normal to behind normal in the South and East.

**FLAXSEED:** Production for 1988 totaled 1.62 million bushels, down 78 percent from 1987 and the lowest production level since estimates began in 1866. Planted area, at 275 thousand acres, was down 41 percent and harvested area, at 226 thousand acres, was 51 percent below a year ago. Yield averaged 7.1 bushels per acre, 9 bushels below last year.

Minnesota's yield, at 10 bushels per acre, was down 6 bushels from 1987. North Dakota's and South Dakota's yield, at 7 bushels per acre, dropped 9.5 and 6.0 bushels, respectively, from the previous year. Planting progressed ahead of schedule in Minnesota and South Dakota and near normal in North Dakota. Drought conditions throughout the growing season hastened crop development and allowed an early harvest. Crop conditions were generally poor to fair as below normal soil moisture reduced yields dramatically from 1987.

PEANUTS: Production of peanuts in 1988 totaled 4.01 billion pounds, 11 percent above the 1987 crop. The area planted, at 1.65 million acres, was 5 percent more than a year earlier. Growers harvested 1.62 million acres, also 5 percent above 1987. Yield averaged 2,480 pounds per acre, 139 pounds above the 1987 average.

The Southeast (Alabama, Florida, Georgia, and South Carolina) produced 2.65 billion pounds in 1988, up 16 percent from 1987. Generally favorable growing conditions during the season were experienced in most of the region, although rains hampered harvest in September and early October.

The Virginia-North Carolina peanut crop totaled 694 million pounds, 9 percent above 1987. High early season prospects diminished somewhat as the season progressed, due to mid-August heat in North Carolina and rain delays during harvest in both States.

In the Southwest (New Mexico, Oklahoma, and Texas), growers produced 669 million pounds, off 4 percent from the 1987 crop. Although irrigated fields did well throughout the area, prolonged dry periods reduced yields during the growing season.

SUNFLOWER: Production in 1988, for the four States in the estimating program, totaled 1.62 billion pounds, down 38 percent from 1987. Area harvested, at 1.81 million acres, increased 2 percent from last year. Average yield per acre is 898 pounds, down 571 pounds from a year ago and the lowest yield since estimates began in 1975. Production of oil-type sunflower totaled 1.36 billion bushels, 41 percent below last year. In 1988, 1.54 million acres of oil-type sunflower were harvested, with an average yield of 884 pounds per acre. Oil-type sunflower accounted for 84 percent of the total production, 4 percentage points less than a year earlier.

Non-oil type production totaled 258 million pounds, down 16 percent from 1987. In 1988, 263 thousand acres were harvested, with an average yield of 980 pounds per acre.

Most of the sunflower acres were seeded ahead of normal in Minnesota, South Dakota, and North Dakota. Crop conditions deteriorated in the major growing areas throughout the season because of the drought. Harvest was completed well ahead of normal as dry conditions allowed the crop to mature earlier.

COTTON: All cotton production in 1988 totaled 15.4 million bales, 5 percent above the 1987 crop. Upland cotton production is 15.1 million bales, 4 percent above the 1987 production and the largest production since 1981. American-Pima production, at a record 338 thousand bales, is 19 percent above the previous record set last year. Planted area of all cotton totaled 12.5 million acres, up 20 percent from the previous year. Area for harvest, at 11.9 million acres, is 18 percent above the 1987 harvested area. The all cotton yield averaged 623 pounds per harvested acre, down 83 pounds from the 1987 record yield of 706 pounds.

In Texas and Oklahoma, Upland production totaled 5.49 million bales, up 10 percent from last year. In Texas, a later than normal freeze date allowed more of the large bolls to mature. Extremely good conditions prevailed during harvest.

Production in the Delta States (Arkansas, Louisiana, Mississippi, Missouri, and Tennessee) totaled 4.73 million bales, up 3 percent from 1987. Yields were down from the previous year in all of the Delta States.

The Western States (Arizona, California, and New Mexico) had a total Upland production of 3.82 million bales, which is a 3 percent decrease from last year. Yields in Arizona and California decreased from their records set during 1987, while the yield in New Mexico increased.

Production in the Southeastern States (Alabama, Georgia, North Carolina, and South Carolina) totaled 1.03 million bales, up 10 percent from 1987. Planting conditions were not favorable in the majority of this area, but good conditions prevailed during the harvest period.

COTTONSEED: Production of cottonseed for 1988, based on a three year average lint-seed ratio, totaled 6.05 million tons. This is 5 percent above the 1987 production of 5.77 million tons.

ALL HAY: Production of all hay in 1988 is estimated at 127 million tons, down 15 percent from last year's tonnage and 18 percent less than in 1986. The decline from a year ago reflects drought reduced yields which were only partly offset by an increase in the harvested area. The total area harvested for hay at 65.6 million acres was 8 percent above 1987 and 5 percent more than in 1986. This year's average yield of 1.93 tons per acre was 0.53 tons below last year and 0.56 tons under the average two years ago.

ALFALFA AND ALFALFA MIXTURES: Alfalfa hay production in 1988 totaled 69.3 million tons, a decline of 18 percent from last year and off 24 percent from two years ago. Compared with 1987, lower yields more than offset an acreage increase. Growers cut an average of 2.60 tons per acre this year compared with 3.32 tons a year ago. This year's crop came from 26.7 million acres, 5 percent more than the 1987 harvested acreage.

ALL OTHER HAY: All other hay production reached 57.5 million tons in 1988, 11 percent under the 1987 total and 10 percent below the 1986 production. An increase in acreage harvested from last year was not enough to offset a decrease in yields. The average yield per harvested acre of 1.48 tons in 1988 compares with 1.83 tons in 1987 and 1.80 tons two years ago. The area harvested in 1988 was up 10 percent from a year earlier and was 9 percent above the acreage two years ago.

DRY BEANS: Production of dry edible beans in 1988 was estimated at 19.2 million cwt, down 26 percent from 1987 and 16 percent below two years ago. Area for harvest is set at 1.37 million acres, down 19 percent from 1987, while the average yield is pegged at 1,408 pounds per acre, a drop of 8 percent.

Summer drought devastated fields across the Northern part of the U.S. leaving production at a fraction of 1987. Many late fields in Michigan were abandoned as rains kept farmers out of the fields during November.

Production of navy beans fell more than half from 1987 output, while Black Turtle soup beans were off by more than 60 percent. Pintos and pinks were down about one-fourth and kidneys and cranberries dropped nearly 40 percent. On the up side, great Northern beans produced 17 percent more than 1987 and small reds gained 43 percent. California limas were up substantially but blackeye (peas) beans were down 23 percent.

DRY PEAS: The 1988 production of dry edible peas totaled 3.87 million cwt, a gain of 14 percent over 1987 and 21 percent over 1986. The crop was harvested from 179 thousand acres, up 11 percent from 1987 and equal to 1986. Average yield, at 2,161 pounds per acre, gained 3 percent from 1987 and beat 1986 by 21 percent.

Austrian winter peas produced 133 thousand cwt in 1988, only one-fourth of the 1987 crop. Acreage and yields were both down substantially. Production of wrinkled seed peas totaled 1.02 million cwt in 1988, up 56 percent from 1987 and 18 percent above 1986.

LENTILS: Producers grew 894 thousand cwt of lentils in 1988, a drop of 50 percent from the previous year and 53 percent below 1986. Harvested area at 71.0 thousand acres was also cut in half. The average yield of 1,259 pounds per acre was down slightly.

ALL POTATOES: Production of potatoes for all four seasons totaled an estimated 350 million cwt in 1988, down 9 percent from 1987 and the smallest U.S. production since 1983. Potatoes were harvested from 1.24 million acres in 1988, slipping 3 percent from 1987. Average yields were down 6 percent (down 8 percent for fall potatoes). Fall potatoes accounted for 88 percent of total production, summer and spring nearly 6 percent each, with winter production providing less than 1 percent.

WINTER POTATOES: Growers produced 2.62 million cwt of winter potatoes in 1988, a gain of 5 percent from 1987, but 13 percent below 1986. Harvested area, at 12.3 thousand acres, was up 5 percent, but the average yield was down slightly from a year earlier.

SPRING POTATOES: Production is set at 20.0 million cwt in 1988, up 13 percent from 1987 and 1 percent above 1986. Harvested acreage totaled 79.0 thousand acres, down 2 percent from a year ago, but up 4 percent from two years ago. The average yield of 253 cwt per acre improved 15 percent from 1987.

SUMMER POTATOES: Production of summer potatoes totaled 20.2 million cwt in 1988, a drop of 11 percent from 1987 and 4 percent below 1986. Harvested acreage was off 8 percent while the average yield was down 4 percent. Production in Delaware, Virginia, Nebraska, and Illinois improved over the past year, but the other 12 summer potato States produced less.

FALL POTATOES: Production for 1988 was estimated at 307 million cwt, down 10 percent from last year and 3 percent below 1986. Area harvested was set at 1.06 million acres, down 2 percent from last year but 2 percent above 1986. The average yield was finalized at 290 cwt per acre, 8 percent short of a year earlier and 6 percent below 1986.

SIX EASTERN STATES produced 33.1 million cwt of potatoes in 1988, a drop of 11 percent from 1987 and 9 percent below 1986. This is the smallest crop production in the East since regional records began in 1949. Harvested acreage of 135 thousand acres is down 4 percent from 1987 and 6 percent below 1986. The average yield of 245 fell 6 percent from the previous year and 2 percent below 1986.

EIGHT CENTRAL STATES produced 59.5 million cwt of potatoes in 1988, falling 24 percent from 1987 and 18 percent below 1986. Harvested acreage of 317 thousand acres was down only 3 percent, but drought reduced yields 22 percent to an average of 188 cwt per acre. Dry, hot weather hit hardest in Michigan, Ohio, Indiana, Minnesota, and North Dakota where production was off 23, 25, 40, 26, and 38 percent, respectively. The use of irrigation moderated losses in Nebraska and Wisconsin along with some areas of Michigan and Minnesota.

NINE WESTERN STATES produced 215 million cwt of potatoes in 1988, down 6 percent from 1987 but 3 percent above 1986. Acreage harvested is set at 607 thousand acres, a dip of 2 percent from 1987 but 5 percent above 1986. The average yield of 353 cwt was 4 percent below 1987 and 2 percent below 1986. Idaho production was down fractionally as increased acreage nearly offset lower average yields. The Colorado crop turned out 5 percent smaller than 1987. A water shortage in Malheur County and spring frost in Klamath Falls coupled with an 18 percent drop in acres combined to reduce Oregon production 20 percent. Washington production dipped 6 percent while California output dropped 22 percent.

SWEETPOTATOES: Production of sweetpotatoes was estimated at 11.8 million cwt in 1988, down 2 percent from 1987 and 7 percent below 1986. Harvested acreage was down 5 percent, but yields improved 3 percent. Larger crops in North Carolina, Alabama, Maryland, and Virginia balanced against smaller crops in Louisiana and Mississippi. California, South Carolina, New Jersey, Tennessee, and Texas also produced fewer sweetpotatoes in 1988 than the previous year.

TOBACCO: All tobacco production in 1988 totaled 1.35 billion pounds, a 13 percent increase from the 1987 production and 16 percent larger than the 1986 crop. The larger crop from a year ago is the combined result of increased acreage and higher yields. Production is up in 12 of the 16 producing States. Growers harvested 632 thousand acres in 1988, 8 percent more than a year earlier. Yield per acre averaged 2,134 pounds, up 106 pounds from last year but 63 pounds short of the record high yield set in 1985.

Flue-cured production is estimated at 813 million pounds, 18 percent above last year. Both acreage and yield were higher than for the 1987 crop. Growers harvested 366 thousand acres, a rise of 13 percent from last year. An average yield of 2,218 pounds per acre was realized, 89 pounds greater than the previous year's average yield.

Fire-cured output is expected to total 27.0 million pounds, 2 percent less than last year. The decline is the combined result of reduced acreage and lower yield. Harvested areas, at 13.6 thousand acres, is down 2 percent from 1987. The average yield per acre of 1,978 pounds is 12 pounds less than the 1987 yield.

Burley production is placed at 460 million pounds, a 10 percent increase from last year's crop. The larger output for 1988 is due to increases in both acreage and yield. Growers harvested 223 thousand acres in 1988, up 3 percent from the previous year. Average yield in 1988 is estimated at 2,065 pounds per acre, up 122 pounds per acre from the 1987 yield.

Southern Maryland type 32 production, at 19.4 million pounds, is 7 percent smaller than the previous year's crop. The decrease resulted from a 14 percent reduction in acreage which was only partially offset from a 114 pound heavier yield per acre.

Production of dark air-cured tobacco, at 7.80 million pounds, is up 12 percent from the previous year. Area harvested increased 5 percent and yield per acre is 127 pounds above the 1987 average.

All cigar type output is estimated at 21.1 million pounds, 16 percent below 1987 production. The decline is primarily the result of 16 percent less acreage but average yield is also estimated to be off by 3 pounds per acre. Filler production is off 12 percent with a total of 11.7 million pounds. The 5.73 million pounds of binder type produced is 32 percent under last year's total. Cigar wrapper output, at 2.14 million pounds, gained 35 percent from a year earlier.

SUGAR: Production of raw sugar from the 1988 sugarcane and sugarbeet crops is estimated at 6.85 million tons raw value, down 7 percent from the 1987 total. The decrease reflects the decline in sugarbeet production and a lesser amount of sugar recovered per ton of sugarcane harvested.

Output of beet sugar is expected to total 3.55 million tons raw value, down 11 percent from the quantity produced from the previous crop. Raw cane sugar from the mainland crop is estimated at 2.36 million tons, nearly the same as from the 1987 crop. Hawaii's raw cane sugar output, at 930 thousand tons, is 5 percent below a year ago.

SUGARCANE: Production of sugarcane for sugar in 1988 totaled 29.0 million tons, 4 percent more than in 1987. The increase is the combined result of increased acreage and a higher average yield. Area harvested totaled 798 thousand acres, 2 percent more than a year earlier. Yield per acre averaged 36.4 tons compared with 36.0 last year.

Florida's production of sugarcane for sugar at 13.4 million tons exceeds 1987 by 3 percent. Acreage and yield are both up from a year ago.

Hawaiian production for sugar is estimated at 7.55 million tons, 6 percent less than last year. The decline is primarily the result of lower yields, though acreage is down 1 percent.

Louisiana sugarcane production for sugar is expected to total 6.98 million tons, up 17 percent from last year. The increase follows a 6 percent increase in acreage harvested for sugar and an average yield per acre of 25.0 tons compared to 22.7 a year ago.

Texas output was up 2 percent. Higher yields more than offset reduced acreage.

SUGARBEETS: Production of sugarbeets in 1988 is estimated at 24.8 million tons, 12 percent less than produced in 1987. The smaller production is the result of lower yields which more than offset an increase in acreage. Yield averaged 19.1 tons per acre compared with 22.4 tons the previous year. Area harvested totaled 1.30 million acres, up 4 percent from a year ago. Of the 13 producing States, 8 had reduced production from a year earlier.

California, with 5.30 million tons, was the leading State in total production. Their output was 13 percent below 1987.

Minnesota's production totaled 4.74 million tons, making them the second ranked State. Their output was down 23 percent from 1987.

In other leading sugarbeet producing States Idaho with 4.07 million tons, was off 5 percent; North Dakota, at 2.58 million tons, was down 18 percent; and Michigan's 2.39 million tons was 18 percent below a year earlier.

PEPPERMINT OIL: Production of peppermint oil in 1988 is estimated at 5.36 million pounds, up 21 percent from 1987 and 24 percent above 1986. Compared with a year ago, production increased in the Oregon, Washington, and Idaho area but drought reduced the Indiana and Wisconsin crops. Nationally area harvested totaled 80.5 thousand acres, 22 percent more than a year ago. Acreage increased in all producing States. Yield averaged 67 pounds per acre compared with 68 pounds a year ago. Yields in the 3 Pacific Northwest States each averaged within 2 pounds of last year but the Indiana and Wisconsin yields were off 14 and 16 pounds per acre respectively. Oregon accounted for over half of the total production.

SPEARMINT OIL: Output of spearmint oil totaled 1.75 million pounds, 15 percent less than in 1987 and 34 percent below 1986. Compared with a year ago, production was down in all 6 producing States. Area harvested in the U.S., at 22.6 thousand acres, was off 5 percent. The average yield of 77 pounds per acre represents a 9 pound decline from 1987. Washington production accounted for 72 percent of the national output.

COFFEE: The 1988-89 Hawaiian coffee crop is estimated at 1.90 million pounds parchment basis. This is 6 percent above the previous season. Improved weather conditions and an increase in harvested acreage were responsible for this season's higher production.

TARO: Hawaiian taro production totaled 6.80 million pounds for 1988. This is 8 percent more than 1987. Yield increased to 16.2 thousand pounds per acre and compares with 15.8 thousand pounds per acre in 1987. Area in crop is 5 percent higher than 1987.

HOPS: Production of hops in 1988 totaled 54.7 million pounds, 9 percent more than last year and 11 percent above 1986. Compared with 1987, harvested area increased 18 percent to 33.4 thousand acres, while the average yield per acre decreased 7 percent to 1,638 pounds.

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