

Crop Production



USDA
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All Cotton Production Up 2 Percent from Last Month

All cotton production is forecast at 13.5 million bales, up 2 percent from last month, but down 28 percent from 1997. Yield is expected to average 621 pounds per harvested acre, up 9 pounds from last month, but down 59 pounds from last year. Texas production was increased 300,000 bales from November's forecast, but California's output was reduced 100,000 bales. On November 29, U.S. harvest was 90 percent complete, compared to the 5-year average of 87 percent, and ginnings were also ahead of average.

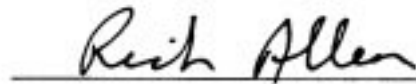
All oranges production forecast for 1998-99 remains at 11.0 million tons, down 21 percent from last year's record large crop of 13.9 million tons. Florida's all orange forecast is 190 million boxes (8.55 million tons), 22 percent less than the record large 244 million boxes produced last season. Early and midseason varieties in Florida are forecast at 112 million boxes (5.04 million tons), 20 percent lower than last season. Florida's Valencia forecast of 78.0 million boxes (3.51 million tons) is 25 percent below last season's 104.0 million boxes. California's all orange production forecast of 62.0 million boxes (2.33 million tons) is carried forward from October and is 16 percent less than last season. The Navel orange forecast is 34.0 million boxes (1.28 million tons), down 23 percent from last year and the Valencia forecast season is 28.0 million boxes (1.05 million tons), 7 percent less than a year ago.

Florida frozen concentrated orange juice (FCOJ) yield for the 1998-99 season remains at 1.57 gallons per box at 42.0 degrees Brix. The forecast projects the final yield as reported by the Florida Citrus Processors Association. The final 1997-98 yield for all fruit used in FCOJ was 1.58 gallons per box at 42.0 degrees Brix. Projected yields for 1998-99 early-midseason and Valencia varieties will be published in the January Crop Production report.

This report was approved on December 11, 1998.



Secretary of
Agriculture
Dan Glickman



Agricultural Statistics Board
Chairperson
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**Cotton: Area Harvested, Yield, and Production by Type, State,
and United States, 1997 and Forecasted December 1, 1998**

Type and State	Area Harvested		Yield			Production ¹	
	1997	1998	1997	1998		1997	1998
				Nov 1	Dec 1		
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Bales ²</i>	<i>1,000 Bales ²</i>
Upland							
AL	442.0	455.0	597	601	601	550.0	570.0
AZ	324.0	249.0	1,255	1,118	1,118	847.0	580.0
AR	940.0	855.0	859	674	685	1,683.0	1,220.0
CA	875.0	650.0	1,202	923	849	2,191.0	1,150.0
FL ³	99.0	80.0	577	498	498	119.1	83.0
GA	1,425.0	1,300.0	646	517	517	1,919.0	1,400.0
KS ³	10.0	14.0	418	501	501	8.7	14.6
LA	625.0	540.0	757	578	573	986.0	645.0
MS	970.0	915.0	901	776	755	1,821.0	1,440.0
MO	375.0	330.0	723	524	509	565.0	350.0
NM ³	66.0	59.0	676	781	781	93.0	96.0
NC	665.0	710.0	671	656	669	930.0	990.0
OK	190.0	120.0	462	500	540	183.0	135.0
SC	285.0	280.0	691	566	600	410.0	350.0
TN	480.0	445.0	662	593	593	662.0	550.0
TX	5,150.0	3,050.0	479	472	519	5,140.0	3,300.0
VA ³	100.0	91.0	659	770	770	137.2	146.0
US	13,021.0	10,143.0	673	606	616	18,245.0	13,019.6
Amer-Pima							
AZ	22.0	15.0	912	768	768	41.8	24.0
CA	184.0	184.0	1,141	900	900	437.2	345.0
NM	11.0	10.5	641	777	617	14.7	13.5
TX	32.0	37.0	815	778	649	54.3	50.0
US	249.0	246.5	1,056	868	842	548.0	432.5
All							
AL	442.0	455.0	597	601	601	550.0	570.0
AZ	346.0	264.0	1,233	1,098	1,098	888.8	604.0
AR	940.0	855.0	859	674	685	1,683.0	1,220.0
CA	1,059.0	834.0	1,191	918	860	2,628.2	1,495.0
FL ³	99.0	80.0	577	498	498	119.1	83.0
GA	1,425.0	1,300.0	646	517	517	1,919.0	1,400.0
KS ³	10.0	14.0	418	501	501	8.7	14.6
LA	625.0	540.0	757	578	573	986.0	645.0
MS	970.0	915.0	901	776	755	1,821.0	1,440.0
MO	375.0	330.0	723	524	509	565.0	350.0
NM	77.0	69.5	671	780	756	107.7	109.5
NC	665.0	710.0	671	656	669	930.0	990.0
OK	190.0	120.0	462	500	540	183.0	135.0
SC	285.0	280.0	691	566	600	410.0	350.0
TN	480.0	445.0	662	593	593	662.0	550.0
TX	5,182.0	3,087.0	481	476	521	5,194.3	3,350.0
VA ³	100.0	91.0	659	770	770	137.2	146.0
US	13,270.0	10,389.5	680	612	621	18,793.0	13,452.1

¹ Production ginned and to be ginned.

² 480-Lb. net weight bales.

³ Estimates for current year carried forward from previous forecast.

**Cottonseed: Production, United States,
1996-97 and Forecasted December 1, 1998**

State	Production		
	1996	1997	1998 ¹
	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>
US	7,143.5	6,934.6	5,052.0

¹ Based on a 3-year average lint-seed ratio.

**Burley Tobacco: Area Harvested, Yield, and Production by State,
and United States, 1996-97 and Forecasted December 1, 1998**

State	Area Harvested		Yield		Production ¹		
	1997	1998	1997	1998	1996	1997	1998
	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Type 31							
IN	8,900	8,500	2,100	2,000	14,972	18,690	17,000
KY	220,000	225,000	2,140	2,000	366,300	470,800	450,000
MO ¹	3,000	2,800	2,345	2,300	6,021	7,035	6,440
NC	8,400	8,600	1,585	1,650	12,987	13,314	14,190
OH	11,400	9,800	1,960	1,830	12,640	22,300	17,934
TN	51,000	55,000	1,830	1,850	88,090	93,330	101,750
VA	10,800	11,000	1,905	2,000	17,433	20,574	22,000
WV ¹	1,800	1,800	1,700	1,500	2,040	3,060	2,700
US	315,300	322,500	2,059	1,960	520,483	649,103	632,014

¹ Estimates for current year carried forward from an earlier forecast.

Papayas: Area and Fresh Production, by Month, Hawaii, 1997-98

Month	Area				Fresh Production	
	Total in Crop		Harvested		1997	1998
	1997	1998	1997	1998		
	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Oct	3,135	3,785	1,955	2,305	3,415	2,850
Nov	3,105	3,785	1,920	2,235	3,030	3,070

**Dry Edible Beans: Area Planted and Harvested, Yield, and Production
by State and United States, 1996-98^{1 2}**

State	Area Planted			Area Harvested		
	1996	1997	1998	1996	1997	1998
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
CA	128.0	135.0	110.0	123.0	132.0	105.0
CO	145.0	135.0	180.0	125.0	120.0	160.0
ID	95.0	105.0	105.0	93.0	103.0	103.0
KS	28.0	22.0	20.0	24.0	20.0	19.0
MI	340.0	315.0	300.0	320.0	305.0	295.0
MN	160.0	170.0	190.0	155.0	155.0	175.0
MT	10.5	12.2	12.6	10.3	11.7	12.2
NE	205.0	190.0	195.0	195.0	180.0	188.0
NM	12.0	12.0	10.5	12.0	12.0	9.5
NY	30.0	40.0	31.0	29.0	39.5	30.0
ND	580.0	600.0	750.0	570.0	530.0	710.0
OR	9.2	11.0	8.7	8.8	10.9	8.6
TX	13.0	15.0	15.0	10.0	14.0	13.5
UT	5.0	5.8	6.0	0.6	5.6	5.9
WA	37.0	38.0	40.0	35.0	38.0	40.0
WI	8.3	8.8	7.3	8.0	8.5	7.2
WY	37.0	37.0	42.0	34.0	35.0	40.0
US	1,843.0	1,851.8	2,023.1	1,752.7	1,720.2	1,921.9
	Yield per Acre			Production		
	1996	1997	1998	1996	1997	1998
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
CA	1,890	2,250	1,920	2,325	2,970	2,016
CO	1,800	1,900	1,900	2,250	2,280	3,040
ID	2,050	2,150	2,050	1,907	2,215	2,112
KS	1,850	1,900	2,000	444	380	380
MI	1,450	1,650	1,500	4,640	5,033	4,425
MN	1,560	1,550	1,450	2,418	2,403	2,538
MT	2,280	2,200	2,180	235	257	266
NE	1,900	2,060	1,950	3,705	3,708	3,666
NM	2,200	1,700	1,800	264	204	171
NY	1,300	1,560	1,420	377	617	426
ND	1,320	1,300	1,380	7,524	6,890	9,798
OR	1,800	2,060	1,770	158	224	152
TX	840	1,020	1,000	84	143	135
UT	1,600	700	500	10	39	30
WA	2,030	2,240	2,230	710	850	890
WI	1,800	1,800	1,600	144	153	115
WY	2,250	2,260	2,200	765	790	880
US	1,595	1,695	1,615	27,960	29,156	31,040

¹ Excludes beans grown for garden seed.

² 1996 and 1997 revisions will be published on December 18, 1998 in "Field Crops: Final Estimates, 1992-97."

**Dry Edible Beans: Area Planted and Harvested by Commercial
Class, State, and Total, 1996-98¹**

Class and State	Area Planted			Area Harvested		
	1996	1997	1998	1996	1997	1998
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
Large Lima						
CA	21.0	30.0	26.0	20.0	29.0	25.0
Baby Lima						
CA	24.0	37.0	13.0	23.0	36.0	12.0
Navy						
CO		0.2			0.2	
ID	7.3	3.9	1.5	7.2	3.8	1.5
KS	1.1			0.9		
MI	210.0	150.0	75.0	200.0	145.0	74.0
MN	50.0	57.0	54.0	48.9	54.0	49.0
NE	5.0	6.0	5.0	4.6	5.9	4.8
NM	5.0	5.0	2.0	5.0	5.0	2.0
ND	135.0	155.0	120.0	133.0	138.0	114.0
OR	1.8	1.4	0.4	1.8	1.4	0.4
WY	4.0	3.0	1.0	3.8	2.8	0.9
Total	419.2	381.5	258.9	405.2	356.1	246.6
Great Northern						
CO	1.3	0.3		1.3	0.3	
ID	7.8	5.8	7.5	7.7	5.6	7.4
KS	2.5	1.4		2.3	1.3	
MN	3.0	3.0	2.0	2.8	2.5	1.8
NE	100.0	96.0	97.0	94.6	94.0	93.2
WA	2.2			2.2		
WY	5.0	5.0	6.0	4.4	4.5	5.5
Total	121.8	111.5	112.5	115.3	108.2	107.9
Small White						
ID	3.1	3.4	1.5	3.0	3.3	1.4
OR	0.5	1.3	0.3	0.5	1.3	0.3
WA	2.0	3.5	1.0	2.0	3.5	1.0
Total	5.6	8.2	2.8	5.5	8.1	2.7

¹ 1996 and 1997 revisions will be published on December 18, 1998 in "Field Crops: Final Estimates, 1992-97."

Dry Edible Beans: Yield and Production by Commercial Class, State, and Total, 1996-98¹ (continued)

Class and State	Yield per Acre			Production		
	1996	1997	1998	1996	1997	1998
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
Large Lima						
CA	1,970	2,410	1,900	394	698	475
Baby Lima						
CA	2,250	2,540	2,500	517	914	300
Navy						
CO		1,500			3	
ID	2,110	2,420	2,330	152	92	35
KS	2,000			18		
MI	1,400	1,600	1,600	2,800	2,320	1,180
MN	1,600	1,650	1,600	783	891	784
NE	2,070	1,980	2,130	95	117	102
NM	2,200	1,840	2,000	110	92	40
ND	1,450	1,360	1,550	1,929	1,878	1,767
OR	2,330	2,430	2,250	42	34	9
WY	1,890	2,140	2,000	72	60	18
Total	1,481	1,541	1,596	6,001	5,487	3,935
Great Northern						
CO	1,620	1,670		21	5	
ID	2,170	2,180	2,140	167	122	158
KS	1,610	1,690		37	22	
MN	1,710	1,600	1,330	48	40	24
NE	1,920	2,100	1,990	1,817	1,974	1,855
WA	2,360			52		
WY	2,500	2,310	2,400	110	104	132
Total	1,953	2,095	2,010	2,252	2,267	2,169
Small White						
ID	1,900	2,390	2,210	57	79	31
OR	2,000	2,150	2,330	10	28	7
WA	2,300	2,230	2,200	46	78	22
Total	2,055	2,284	2,222	113	185	60

¹ 1996 and 1997 revisions will be published on December 18, 1998 in "Field Crops: Final Estimates, 1992-97."

**Dry Edible Beans: Area Planted and Harvested by Commercial
Class, State, and Total, 1996-98¹ (continued)**

Class and State	Area Planted			Area Harvested		
	1996	1997	1998	1996	1997	1998
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
Pinto						
CO	134.7	119.0	165.5	115.2	105.5	147.0
ID	45.9	42.0	44.2	45.4	41.2	43.5
KS	22.5	18.0	18.5	19.5	16.4	17.7
MI	9.0	10.0	21.0	8.0	10.0	20.0
MN	45.0	40.0	57.0	44.0	36.0	53.5
MT	10.5	12.2	12.2	10.3	11.7	12.0
NE	88.0	67.0	76.0	84.3	59.7	73.7
NM	6.7	7.0	5.5	6.7	7.0	4.5
ND	413.0	400.0	540.0	405.0	350.0	510.0
OR	2.2	1.7	2.2	2.0	1.7	2.2
TX	1.0	1.5	0.5	0.9	1.4	0.5
UT	5.0	5.8	6.0	0.6	5.6	5.9
WA	14.2	10.0	16.0	13.0	10.0	16.0
WY	27.0	28.0	30.0	25.0	27.0	29.0
Total	824.7	762.2	994.6	779.9	683.2	935.5
Light Red Kidney						
CA	10.0	10.0	9.5	10.0	10.0	8.5
CO	8.7	12.2	10.0	8.2	11.2	9.1
ID	0.9	1.1	1.6	0.8	1.1	1.6
MI	12.0	14.0	14.0	10.0	14.0	13.0
MN	10.0	10.0	11.0	9.4	9.0	10.5
NE	10.0	17.0	13.0	9.7	16.6	12.6
NY	16.5	22.5	16.0	16.0	22.0	15.5
WA			0.9			0.9
Total	68.1	86.8	76.0	64.1	83.9	71.7
Dark Red Kidney						
CA	5.0	5.0	5.5	5.0	5.0	5.5
ID	0.5	0.5	0.9	0.5	0.5	0.9
MI	11.0	12.0	9.0	9.0	11.5	9.0
MN	37.0	35.0	35.0	36.0	32.0	33.0
NY	3.5	2.0	2.0	3.0	2.0	2.0
ND	3.0	1.8	5.5	3.0	1.6	5.2
WI	8.3	8.8	7.3	8.0	8.5	7.2
Total	68.3	65.1	65.2	64.5	61.1	62.8
Pink						
CA	8.0	4.0	5.5	8.0	4.0	5.5
ID	7.5	15.0	17.6	7.4	14.9	17.2
MN	5.0	8.0	8.0	4.7	7.0	7.5
NM	0.3			0.3		
ND	7.0	8.0	13.0	7.0	7.0	12.6
WA	3.1	3.7	6.0	3.1	3.7	6.0
Total	30.9	38.7	50.1	30.5	36.6	48.8

¹ 1996 and 1997 revisions will be published on December 18, 1998 in "Field Crops: Final Estimates, 1992-97."

Dry Edible Beans: Yield and Production by Commercial Class, State, and Total, 1996-98¹ (continued)

Class and State	Yield per Acre			Production		
	1996	1997	1998	1996	1997	1998
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
Pinto						
CO	1,830	1,890	1,950	2,112	1,991	2,873
ID	2,150	2,150	2,100	976	886	914
KS	1,900	1,920	2,000	370	315	354
MI	1,500	1,700	1,470	120	170	293
MN	1,300	1,350	1,390	573	485	744
MT	2,280	2,200	2,200	235	257	264
NE	1,850	1,990	1,880	1,560	1,188	1,386
NM	2,180	1,600	2,040	146	112	92
ND	1,270	1,280	1,340	5,138	4,480	6,832
OR	2,000	2,290	1,910	40	39	42
TX	890	1,210	600	8	17	3
UT	1,600	700	500	10	39	30
WA	2,390	2,350	2,380	311	235	380
WY	2,250	2,270	2,160	563	613	625
Total	1,559	1,585	1,585	12,162	10,827	14,832
Light Red Kidney						
CA	1,870	1,970	1,530	187	197	130
CO	1,390	2,210	1,650	114	248	150
ID	2,130	2,360	2,000	17	26	32
MI	1,400	1,640	1,310	140	230	170
MN	1,900	1,720	1,550	179	155	163
NE	2,050	2,200	2,000	199	365	252
NY	1,270	1,580	1,350	203	348	209
WA			2,110			19
Total	1,621	1,870	1,569	1,039	1,569	1,125
Dark Red Kidney						
CA	1,640	1,820	1,090	82	91	60
ID	2,400	2,200	2,330	12	11	21
MI	1,110	1,300	1,000	100	150	90
MN	1,750	1,590	1,400	630	510	462
NY	1,270	1,650	1,600	38	33	32
ND	1,670	1,500	1,690	50	24	88
WI	1,800	1,800	1,600	144	153	115
Total	1,637	1,591	1,382	1,056	972	868
Pink						
CA	1,560	1,600	1,270	125	64	70
ID	2,260	2,230	2,170	167	332	373
MN	1,400	1,640	1,200	66	115	90
NM	2,670			8		
ND	1,370	1,360	1,500	96	95	189
WA	2,130	2,510	2,500	66	93	150
Total	1,731	1,910	1,787	528	699	872

¹ 1996 and 1997 revisions will be published on December 18, 1998 in "Field Crops: Final Estimates, 1992-97."

**Dry Edible Beans: Area Planted and Harvested by Commercial
Class, State, and Total, 1996-98¹ (continued)**

Class and State	Area Planted			Area Harvested		
	1996	1997	1998	1996	1997	1998
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
Small Red						
ID	12.7	21.4	13.1	12.5	21.0	12.8
MI	3.0	10.0	11.0	3.0	9.0	11.0
WA	5.0	12.0	8.0	4.7	12.0	8.0
Total	20.7	43.4	32.1	20.2	42.0	31.8
Cranberry						
CA	3.0	4.0	2.5	3.0	4.0	2.5
ID	1.4	1.7	0.8	1.3	1.6	0.8
MI	27.0	32.0	27.0	25.0	31.0	26.0
MN	2.0	4.0	4.0	1.9	3.5	3.6
Total	33.4	41.7	34.3	31.2	40.1	32.9
Black						
CA	1.0		2.5	1.0		2.5
CO		2.0	0.9		1.6	0.9
ID	1.1	2.4	5.0	1.0	2.4	4.9
MI	60.0	80.0	135.0	57.0	78.0	134.0
MN	3.0	7.0	15.0	2.7	6.0	12.6
NE	1.0	3.0	3.0	0.9	2.9	2.8
NY	7.0	11.5	10.5	7.0	11.5	10.0
ND	15.0	27.0	63.0	15.0	25.5	60.0
WA			2.2			2.2
WY			3.0			2.8
Total	88.1	132.9	240.1	84.6	127.9	232.7
Blackeye						
CA	24.0	30.0	33.0	23.0	29.0	31.0
TX	8.2	12.0	5.5	6.2	11.2	4.9
Total	32.2	42.0	38.5	29.2	40.2	35.9
Garbanzo						
CA	25.0	9.0	5.0	23.0	9.0	5.0
ID	6.1	6.8	10.7	5.5	6.6	10.4
OR	3.0	4.0	3.9	2.8	3.9	3.9
WA	8.6	4.9	5.0	8.1	4.9	5.0
Total	42.7	24.7	24.6	39.4	24.4	24.3
Other						
CA	7.0	6.0	7.5	7.0	6.0	7.5
CO	0.3	1.3	3.6	0.3	1.2	3.0
ID	0.7	1.0	0.6	0.7	1.0	0.6
KS	1.9	2.6	1.5	1.3	2.3	1.3
MI	8.0	7.0	8.0	8.0	6.5	8.0
MN	5.0	6.0	4.0	4.6	5.0	3.5
MT			0.4			0.2
NE	1.0	1.0	1.0	0.9	0.9	0.9
NM			3.0			3.0
NY	3.0	4.0	2.5	3.0	4.0	2.5
ND	7.0	8.2	8.5	7.0	7.9	8.2
OR	1.7	2.6	1.9	1.7	2.6	1.8
TX	3.8	1.5	9.0	2.9	1.4	8.1
WA	1.9	3.9	0.9	1.9	3.9	0.9
WY	1.0	1.0	2.0	0.8	0.7	1.8
Total	42.3	46.1	54.4	40.1	43.4	51.3

¹ 1996 and 1997 revisions will be published on December 18, 1998 in "Field Crops: Final Estimates, 1992-97."

Dry Edible Beans: Yield and Production by Commercial Class, State, and Total, 1996-98¹ (continued)

Class and State	Yield per Acre			Production		
	1996	1997	1998	1996	1997	1998
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
Small Red						
ID	2,100	2,240	2,150	263	470	275
MI	1,170	1,670	1,820	35	150	200
WA	2,280	2,330	2,310	107	280	185
Total	2,005	2,143	2,075	405	900	660
Cranberry						
CA	1,500	1,750	1,600	45	70	40
ID	1,850	1,500	2,250	24	24	18
MI	1,600	1,680	1,100	400	520	285
MN	1,790	1,340	1,610	34	47	58
Total	1,612	1,648	1,219	503	661	401
Black						
CA	1,700		1,600	17		40
CO		500	1,550		8	14
ID	2,100	2,130	2,180	21	51	107
MI	1,650	1,790	1,570	940	1,400	2,100
MN	1,520	1,420	1,360	41	85	171
NE	2,000	1,590	2,000	18	46	56
NY	1,430	1,530	1,470	100	176	147
ND	1,420	1,310	1,360	213	334	816
WA			2,500			55
WY			2,290			64
Total	1,596	1,642	1,534	1,350	2,100	3,570
Blackeye						
CA	2,220	2,380	2,150	511	690	666
TX	900	1,000	1,690	56	112	83
Total	1,942	1,995	2,086	567	802	749
Garbanzo						
CA	1,530	1,510	1,700	352	136	85
ID	670	1,550	1,300	37	102	135
OR	1,210	1,690	1,510	34	66	59
WA	1,000	1,570	1,180	81	77	59
Total	1,279	1,561	1,391	504	381	338
Other						
CA	1,360	1,830	2,000	95	110	150
CO	1,000	2,080	1,000	3	25	3
ID	2,000	2,000	2,170	14	20	13
KS	1,460	1,870	2,000	19	43	26
MI	1,310	1,430	1,340	105	93	107
MN	1,390	1,500	1,200	64	75	42
MT			1,000			2
NE	1,780	2,000	1,670	16	18	15
NM			1,300			39
NY	1,200	1,500	1,520	36	60	38
ND	1,400	1,000	1,290	98	79	106
OR	1,880	2,190	1,940	32	57	35
TX	690	1,000	600	20	14	49
WA	2,470	2,230	2,220	47	87	20
WY	2,500	1,860	2,280	20	13	41
Total	1,419	1,599	1,337	569	694	686

¹ 1996 and 1997 revisions will be published on December 18, 1998 in "Field Crops: Final Estimates, 1992-97."

**Citrus Fruits: Utilized Production by Crop, State, and United States,
1996-97, 1997-98 and Forecasted December 1, 1998 ¹**

Crop and State	Utilized Production Boxes			Utilized Production Ton Equivalent		
	1996-97	1997-98	1998-99	1996-97	1997-98	1998-99
	<i>1,000 Boxes ²</i>	<i>1,000 Boxes ²</i>	<i>1,000 Boxes ²</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>
Oranges						
Early Mid & Navel ³						
AZ ⁴	400	350	400	15	13	15
CA ⁴	40,000	44,000	34,000	1,500	1,650	1,275
FL	134,200	140,000	112,000	6,039	6,300	5,040
TX	1,300	1,350	1,300	55	57	55
US	175,900	185,700	147,700	7,609	8,020	6,385
Valencia						
AZ ⁴	600	650	600	23	25	23
CA ⁴	24,000	30,000	28,000	900	1,125	1,050
FL	92,000	104,000	78,000	4,140	4,680	3,510
TX	120	175	140	5	7	6
US	116,720	134,825	106,740	5,068	5,837	4,589
All						
AZ ⁴	1,000	1,000	1,000	38	38	38
CA ⁴	64,000	74,000	62,000	2,400	2,775	2,325
FL	226,200	244,000	190,000	10,179	10,980	8,550
TX	1,420	1,525	1,440	60	64	61
US	292,620	320,525	254,440	12,677	13,857	10,974
Temples						
FL	2,400	2,250	2,000	108	101	90
Grapefruit						
White Seedless ⁵						
FL	23,500	18,300	18,000	999	777	765
Colored Seedless ⁶						
FL	31,400	30,600	31,500	1,334	1,301	1,339
Other						
FL	900	650	500	38	28	21
All						
AZ ⁴	900	800	700	30	27	23
CA ⁴	8,200	9,000	8,400	275	301	281
FL ^{5 6}	55,800	49,550	50,000	2,371	2,106	2,125
TX	5,300	4,800	5,000	212	192	200
US	70,200	64,150	64,100	2,888	2,626	2,629
Tangerines						
AZ ^{4 7}	550	600	650	21	23	24
CA ^{4 7}	2,600	2,400	2,500	98	90	94
FL	6,300	5,200	4,200	299	247	200
US	9,450	8,200	7,350	418	360	318
Lemons ⁴						
AZ	2,600	2,600	2,700	99	99	103
CA	22,600	22,000	21,000	859	836	798
US	25,200	24,600	23,700	958	935	901
Tangelos						
FL	3,950	2,850	2,500	178	128	113
K-Early Citrus						
FL	150	40	60	7	2	3

¹ The crop year begins with the bloom of the first year shown and ends with the completion of harvest the following year. ² Net lbs. per box: oranges-AZ & CA-75, FL-90, TX-85; grapefruit-AZ & CA-67, FL-85, TX-80; lemons-76; tangelos, K-Early Citrus & Temples-90; tangerines-AZ & CA-75, FL-95. ³ Navel and miscellaneous varieties in AZ and CA. Early (including Navel) and midseason varieties in FL and TX. Small quantities of tangerines in TX. ⁴ Estimates for current year carried forward from earlier forecast. ⁵ Excludes White Seedless economic abandonment of 3,000,000 boxes in 1996-97 and 5,000,000 boxes in 1997-98. ⁶ Excludes Colored Seedless economic abandonment of 3,000,000 boxes in 1996-97 and 1,000,000 boxes in 1997-98. ⁷ Includes tangelos and tangors.

**Pecans: Utilized Production by Crop, State, and United States,
1996-97 and Forecasted December 1, 1998**

Crop and State	Utilized Production		
	1996	1997	1998
	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Improved Varieties ¹			
AL	9,000	7,000	3,500
AZ	17,000	17,500	17,000
AR ²	800	1,600	500
CA ²	1,300	2,500	1,600
FL ²	500	600	600
GA	86,000	81,000	34,000
LA	2,000	2,000	3,000
MS ²	1,300	2,600	1,800
NM	22,000	43,000	30,000
NC ²	425	900	1,400
OK	500	3,000	1,500
SC ²	1,800	2,600	500
TX	30,000	40,000	30,000
US	172,625	204,300	125,400
Native & Seedling			
AL	5,000	6,000	2,500
AR ²	400	3,000	200
FL ²	1,400	1,200	900
GA	14,000	24,000	6,000
KS ²	200	4,200	200
LA	14,000	10,000	10,000
MS ²	1,300	1,400	700
NC ²	375	600	1,100
OK	1,500	32,000	4,500
SC ²	700	1,400	200
TX	10,000	50,000	5,000
US	48,875	133,800	31,300
All Pecans			
AL	14,000	13,000	6,000
AZ	17,000	17,500	17,000
AR ²	1,200	4,600	700
CA ²	1,300	2,500	1,600
FL ²	1,900	1,800	1,500
GA	100,000	105,000	40,000
KS ²	200	4,200	200
LA	16,000	12,000	13,000
MS ²	2,600	4,000	2,500
NM	22,000	43,000	30,000
NC ²	800	1,500	2,500
OK	2,000	35,000	6,000
SC ²	2,500	4,000	700
TX	40,000	90,000	35,000
US	221,500	338,100	156,700

¹ Budded, grafted, or topworked varieties.

² Estimates for current year carried forward from earlier forecast.

**Sugarcane: Area Harvested, Yield, and Production
by Use, State, and United States, 1996-98**

Use and State	Area Harvested		Yield ¹		Production ¹		
	1997	1998	1997	1998	1996	1997	1998
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>
For Sugar							
FL	421.0	429.0	36.9	37.7	13,803	15,535	16,173
HI	32.0	31.8	91.4	85.5	3,544	2,925	2,719
LA	380.0	385.0	28.2	29.0	9,347	10,700	11,165
TX	27.3	32.0	30.3	30.0	992	827	960
US	860.3	877.8	34.9	35.3	27,686	29,987	31,017
For Seed							
FL	19.0	19.0	36.9	37.8	695	701	718
HI	2.2	2.2	38.2	31.4	95	84	69
LA	30.0	35.0	28.2	29.0	976	846	1,015
TX	2.5	0.5	30.0	30.0	10	75	15
US	53.7	56.7	31.8	32.0	1,776	1,706	1,817
For Sugar and Seed							
FL	440.0	448.0	36.9	37.7	14,498	16,236	16,891
HI	34.2	34.0	88.0	82.0	3,639	3,009	2,788
LA	410.0	420.0	28.2	29.0	10,323	11,546	12,180
TX	29.8	32.5	30.3	30.0	1,002	902	975
US	914.0	934.5	34.7	35.1	29,462	31,693	32,834

¹ Net tons.

**Coffee: Area Harvested, Yield, and Production
Hawaii 1996-98 ¹**

State	Area Harvested			Yield			Production ²		
	1996-97	1997-98	1998-99	1996-97	1997-98	1998-99	1996-97	1997-98	1998-99
	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
HI	5,300	5,600	6,100	1,210	1,680	1,480	6,400	9,400	9,000

¹ 1996-97 and 1997-98 revisions will be published on December 18, 1998 in "Field Crops: Final Estimates, 1992-97."

² Parchment basis.

Crop Summary: Area Planted and Harvested, United States, 1997-98 ¹
(Domestic Units) ¹

Crop	Area Planted		Area Harvested	
	1997	1998	1997	1998
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
Grains & Hay				
Barley	6,910.0	6,456.0	6,425.0	5,984.0
Corn for Grain ²	80,227.0	80,798.0	73,720.0	73,789.0
Corn for Silage			5,758.0	
Hay, All			60,815.0	59,819.0
Alfalfa			23,673.0	23,437.0
All Other			37,142.0	36,382.0
Oats	5,169.0	4,932.0	2,911.0	2,807.0
Rice	3,056.0	3,215.0	3,034.0	3,187.0
Rye	1,433.0	1,591.0	341.0	454.0
Sorghum for Grain ²	10,108.0	9,726.0	9,391.0	7,838.0
Sorghum for Silage			310.0	
Wheat, All	70,989.0	66,185.0	63,577.0	59,112.0
Winter	48,342.0	46,759.0	41,813.0	40,231.0
Durum	3,250.0	3,805.0	3,107.0	3,728.0
Other Spring	19,397.0	15,621.0	18,657.0	15,153.0
Oilseeds				
Canola	728.0	1,133.0	698.0	1,087.0
Cottonseed				
Flaxseed	146.0	335.0	135.0	322.0
Mustard Seed	74.4	124.0	72.8	121.0
Peanuts ³	1,431.0		1,410.8	1,475.5
Rapeseed	1.7	2.0	1.5	1.9
Safflower	249.0	296.0	235.0	282.0
Soybeans for Beans	70,550.0	72,690.0	69,584.0	71,570.0
Sunflower	2,949.0	3,420.0	2,852.0	3,307.0
Cotton, Tobacco & Sugar Crops				
Cotton, All	13,808.0	12,865.5	13,270.0	10,389.5
Upland	13,558.0	12,552.0	13,021.0	10,143.0
Amer-Pima	250.0	313.5	249.0	246.5
Sugarbeets	1,459.3	1,495.2	1,428.3	1,456.2
Sugarcane			914.0	934.5
Tobacco			811.5	750.0
Dry Beans, Peas & Lentils				
Austrian Winter Peas	8.1	9.0	7.6	7.4
Dry Edible Beans	1,851.8	2,023.1	1,720.2	1,921.9
Dry Edible Peas	293.6	323.4	276.6	309.1
Lentils	181.0	159.0	172.0	155.5
Wrinkled Seed Peas				
Potatoes & Misc.				
Coffee (HI)			5.6	6.1
Ginger Root (HI)			0.3	0.4
Hops			43.3	36.6
Peppermint Oil			136.3	
Potatoes, All	1,380.6	1,418.4	1,345.1	1,394.0
Winter	15.6	15.5	15.4	15.0
Spring	88.3	93.2	86.2	89.8
Summer	68.6	74.4	65.9	70.8
Fall	1,208.1	1,241.2	1,177.6	1,197.6
Spearmint Oil			24.5	
Sweet Potatoes	86.7	86.1	83.3	83.2
Taro (HI) ^{4/}			0.5	

¹ Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 1998 crop year. ² Area planted for all purposes. ³ 1998 area planted revised. ⁴ Acreage is total acres in crop, not harvested acreage.

Crop Summary: Yield and Production, United States, 1997-98
(Domestic Units)¹

Crop	Unit	Yield		Production	
		1997	1998	1997	1998
				<i>1,000</i>	<i>1,000</i>
Grains & Hay					
Barley	Bu	58.3	59.9	374,478	358,201
Corn for Grain	"	127.0	133.3	9,365,574	9,836,069
Corn for Silage	Ton	16.0		91,903	
Hay, All	"	2.50	2.54	152,120	151,754
Alfalfa	"	3.35	3.52	79,242	82,442
All Other	"	1.96	1.91	72,878	69,312
Oats	Bu	60.5	60.5	176,104	169,922
Rice ²	Cwt	5,896	5,660	178,896	180,396
Rye	Bu	26.1	28.2	8,912	12,815
Sorghum for Grain	"	69.5	66.5	653,106	520,981
Sorghum for Silage	Ton	12.5		3,885	
Wheat, All	Bu	39.7	43.3	2,526,552	2,557,497
Winter	"	45.0	46.9	1,882,609	1,887,395
Durum	"	27.7	37.8	86,193	141,069
Other Spring	"	29.9	34.9	557,750	529,033
Oilseeds					
Canola	Lb	1,310		914,385	
Cottonseed	Ton			6,935	5,052
Flaxseed	Bu	16.1		2,171	
Mustard Seed	Lb	816		59,405	
Peanuts	"	2,507	2,512	3,537,050	3,706,350
Rapeseed	"	1,300		1,950	
Safflower	"	1,830		430,050	
Soybeans for Beans	Bu	38.8	38.6	2,702,554	2,762,609
Sunflower	Lb	1,320	1,400	3,763,428	4,628,860
Cotton, Tobacco & Sugar Crops					
Cotton, All ²	Bale	680	621	18,793.0	13,452.1
Upland ²	"	673	616	18,245.0	13,019.6
Amer-Pima ²	"	1,056	842	548.0	432.5
Sugarbeets	Ton	20.9	22.3	29,886	32,438
Sugarcane	"	34.7	35.1	31,693	32,834
Tobacco	Lb	2,201	2,063	1,786,065	1,547,282
Dry Beans, Peas & Lentils					
Austrian Winter Peas ²	Cwt	1,513	1,405	115	104
Dry Edible Beans ²	"	1,695	1,615	29,156	31,040
Dry Edible Peas ²	"	2,103	1,895	5,816	5,858
Lentils ²	"	1,390	1,207	2,391	1,877
Wrinkled Seed Peas	"			682	
Potatoes & Misc.					
Coffee (HI)	Lb	1,680	1,480	9,400	9,000
Ginger Root (HI)	"	44,000	50,000	12,100	18,000
Hops	"	1,729	1,799	74,872.1	65,913.0
Peppermint Oil	"	75		10,256	
Potatoes, All	Cwt	346	338	465,537	470,965
Winter	"	203	199	3,124	2,980
Spring	"	252	217	21,749	19,455
Summer	"	271	276	17,875	19,533
Fall	"	359	356	422,789	425,883
Spearmint Oil	Lb	98		2,403	
Sweet Potatoes	Cwt	162		13,512	
Taro (HI) ^{3/}	Lb			5,500	

¹ Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 1998 crop year. ² Yield in pounds. ³ Yield is not estimated.

Fruits and Nuts Production, United States, 1997-99
(Domestic Units) ¹

Crop	Unit	Production		
		1997	1998	1999
		<i>1,000</i>	<i>1,000</i>	<i>1,000</i>
Citrus ²				
Grapefruit	Ton	2,888	2,626	2,629
K-Early Citrus (FL)	"	7	2	3
Lemons	"	958	935	901
Oranges	"	12,677	13,857	10,974
Tangelos (FL)	"	178	128	113
Tangerines	"	418	360	318
Temples (FL)	"	108	101	90
Non-Citrus				
Apples	1,000 Lbs	10,386.1	11,153.9	
Apricots	Ton	138.0	130.2	
Bananas (HI)	Lb	13,700.0		
Grapes	Ton	7,282.4	6,001.9	
Olives (CA)	"	104.0	95.0	
Papayas (HI)	Lb	38,800.0		
Peaches	1,000 Lbs	2,651.1	2,420.0	
Pears	Ton	1,044.1	918.3	
Prunes, Dried (CA)	"	214.0	170.0	
Prunes & Plums (Ex CA)	"	29.0	28.3	
Nuts & Misc.				
Almonds (CA)	Lb	757,000	540,000	
Hazelnuts	Ton	47.0	16.5	
Pecans	Lb	338,100	156,700	
Pistachios (CA)	"	180,000	195,000	
Walnuts (CA)	Ton	269.0	220.0	
Maple Syrup	Gal	1,298	1,159	

¹ Data are the latest estimates available, either from the current report or from previous reports.

² Production years are 1996-97, 1997-98, and 1998-99.

Crop Summary: Area Planted and Harvested, United States, 1997-98
(Metric Units) ¹

Crop	Area Planted		Area Harvested	
	1997	1998	1997	1998
	<i>Hectares</i>	<i>Hectares</i>	<i>Hectares</i>	<i>Hectares</i>
Grains & Hay				
Barley	2,796,410	2,612,680	2,600,130	2,421,660
Corn for Grain ²	32,467,060	32,698,140	29,833,750	29,861,670
Corn for Silage			2,330,210	
Hay, All ³			24,611,220	24,218,219
Alfalfa			9,580,230	9,484,720
All Other			15,031,000	14,723,430
Oats	2,091,840	1,995,930	1,178,050	1,135,960
Rice	1,236,730	1,301,080	1,227,830	1,289,750
Rye	579,920	643,860	138,000	183,730
Sorghum for Grain ²	4,090,610	3,936,010	3,800,440	3,171,960
Sorghum for Silage			125,450	
Wheat, All ³	28,728,540	26,784,410	25,728,980	23,922,040
Winter	19,563,520	18,922,900	16,921,300	16,281,080
Durum	1,315,240	1,539,850	1,257,370	1,508,680
Other Spring	7,849,770	6,321,660	7,550,300	6,132,270
Oilseeds				
Canola	294,610	458,510	282,470	439,900
Cottonseed				
Flaxseed	59,080	135,570	54,630	130,310
Mustard Seed	30,110	50,180	29,460	48,970
Peanuts	579,110		570,940	597,120
Rapeseed	690	810	610	770
Safflower	100,770	119,790	95,100	114,120
Soybeans for Beans	28,550,880	29,416,920	28,159,950	28,963,660
Sunflower	1,193,430	1,384,040	1,154,180	1,338,310
Cotton, Tobacco & Sugar Crops				
Cotton, All ³	5,587,960	5,206,540	5,370,240	4,204,530
Upland	5,486,790	5,079,670	5,269,470	4,104,770
Amer-Pima	101,170	126,870	100,770	99,760
Sugarbeets	590,560	605,090	578,020	589,310
Sugarcane			369,890	378,180
Tobacco			328,400	303,500
Dry Beans, Peas & Lentils				
Austrian Winter Peas	3,280	3,640	3,080	2,990
Dry Edible Beans	749,400	818,730	696,150	777,770
Dry Edible Peas	118,820	130,880	111,940	125,090
Lentils	73,250	64,350	69,610	62,930
Wrinkled Seed Peas				
Potatoes & Misc.				
Coffee (HI)			2,270	2,470
Ginger Root (HI)			110	150
Hops			17,520	14,830
Peppermint Oil			55,160	
Potatoes, All ³	558,720	574,010	544,350	564,140
Winter	6,310	6,270	6,230	6,070
Spring	35,730	37,720	34,880	36,340
Summer	27,760	30,110	26,670	28,650
Fall	488,910	502,300	476,560	484,660
Spearmint Oil			9,910	
Sweet Potatoes	35,090	34,840	33,710	33,670
Taro (HI) ^{4/}			180	

¹ Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 1998 crop year. ² Area planted for all purposes. ³ Total may not add due to rounding. ⁴ Area is total hectares in crop, not harvested hectares.

Crop Summary: Yield and Production, United States, 1997-98
(Metric Units) ¹

Crop	Yield		Production	
	1997	1998	1997	1998
	<i>Metric Tons</i>	<i>Metric Tons</i>	<i>Metric Tons</i>	<i>Metric Tons</i>
Grains & Hay				
Barley	3.14	3.22	8,153,300	7,798,910
Corn for Grain	7.97	8.37	237,896,540	249,847,660
Corn for Silage	35.78		83,373,000	
Hay, All ²	5.61	5.69	138,000,940	137,668,910
Alfalfa	7.50	7.89	71,887,130	74,790,120
All Other	4.40	4.27	66,113,810	62,878,790
Oats	2.17	2.17	2,556,140	2,466,410
Rice	6.61	6.34	8,114,590	8,182,630
Rye	1.64	1.77	226,380	325,520
Sorghum for Grain	4.37	4.17	16,589,660	13,233,530
Sorghum for Silage	28.09		3,524,410	
Wheat, All ²	2.67	2.91	68,761,480	69,603,660
Winter	3.03	3.15	51,236,220	51,366,470
Durum	1.87	2.54	2,345,790	3,839,270
Other Spring	2.01	2.35	15,179,470	14,397,920
Oilseeds				
Canola	1.47		414,760	
Cottonseed			6,290,960	4,583,100
Flaxseed	1.01		55,150	
Mustard Seed	0.91		26,950	
Peanuts	2.81	2.82	1,604,380	1,681,170
Rapeseed	1.46		880	
Safflower	2.05		195,070	
Soybeans for Beans	2.61	2.60	73,551,470	75,185,900
Sunflower	1.48	1.57	1,707,060	2,099,620
Cotton, Tobacco & Sugar Crops				
Cotton, All ²	0.76	0.70	4,091,690	2,928,850
Upland	0.75	0.69	3,972,380	2,834,680
Amer-Pima	1.18	0.94	119,310	94,170
Sugarbeets	46.91	49.94	27,112,120	29,427,260
Sugarcane	77.73	78.76	28,751,410	29,786,500
Tobacco	2.47	2.31	810,150	701,840
Dry Beans, Peas & Lentils				
Austrian Winter Peas	1.70	1.58	5,220	4,720
Dry Edible Beans	1.90	1.81	1,322,490	1,407,950
Dry Edible Peas	2.36	2.12	263,810	265,710
Lentils	1.56	1.35	108,450	85,140
Wrinkled Seed Peas			30,940	
Potatoes & Misc.				
Coffee (HI)	1.88	1.65	4,260	4,080
Ginger Root (HI)	49.32	56.04	5,490	8,160
Hops	1.94	2.02	33,960	29,900
Peppermint Oil	0.08		4,650	
Potatoes, All ²	38.79	37.87	21,116,400	21,362,610
Winter	22.74	22.27	141,700	135,170
Spring	28.28	24.28	986,520	882,460
Summer	30.40	30.92	810,800	886,000
Fall	40.24	39.86	19,177,390	19,317,730
Spearmint Oil	0.11		1,090	
Sweet Potatoes	18.18		612,890	
Taro (HI) ^{3/}			2,490	

¹ Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 1998 crop year. ² Production may not add due to rounding. ³ Yield is not estimated.

Fruits and Nuts Production, United States, 1997-99
(Metric Units) ¹

Crop	Production		
	1997	1998	1999
	<i>Metric tons</i>	<i>Metric tons</i>	<i>Metric tons</i>
Citrus ²			
Grapefruit	2,619,950	2,382,270	2,384,990
K-Early Citrus (FL)	6,350	1,810	2,720
Lemons	869,080	848,220	817,370
Oranges	11,500,380	12,570,860	9,955,450
Tangelos (FL)	161,480	116,120	102,510
Tangerines	379,200	326,590	288,480
Temples (FL)	97,980	91,630	81,650
Non-Citrus			
Apples	4,710	5,060	
Apricots	125,190	118,120	
Bananas (HI)	6,210		
Grapes	6,606,480	5,444,790	
Olives (CA)	94,350	86,180	
Papayas (HI)	17,600		
Peaches	1,200	1,100	
Pears	947,190	833,100	
Prunes, Dried (CA)	194,140	154,220	
Prunes & Plums (Ex CA)	26,310	25,670	
Nuts & Misc.			
Almonds (CA)	343,370	244,940	
Hazelnuts	42,640	14,970	
Pecans	153,360	71,080	
Pistachios (CA)	81,650	88,450	
Walnuts (CA)	244,030	199,580	
Maple Syrup	6,490	5,790	

¹ Data are the latest estimates available, either from the current report or from previous reports.

² Production years are 1996-97, 1997-98, and 1998-99.

November Weather Summary

Above-normal temperatures prevailed nearly nationwide despite several notable low-pressure systems, including Tropical Storm Mitch (November 4-5) in southern Florida and a "super storm" (November 10-11) across the northern Plains and upper Midwest. In addition, heavy rainfall induced early-month flooding in parts of the central Plains and re-introduced lowland flooding at mid-month to portions of eastern Texas. Increasingly stormy weather arrived in the Pacific Northwest during the last 2 weeks of November, improving soil moisture in interior sections but saturating areas west of the Cascades with record or near-record rainfall. In contrast, warm, dry weather returned to the Plains during the second half of November, reducing soil moisture to generally favorably levels. Long-term drought persisted, however, in portions of the southern Plains, including western Texas. Intensifying drought stretched through a fifth month in the Mid-Atlantic region, extending southward into parts of the Southeast.

Monthly temperatures ranged from 2 to 6 degrees F above normal in the Plains, Midwestern, Northwestern, and Southeastern States, aided by a warm spell that produced more than 250 daily-record highs during the last 10 days of November. Near-normal readings prevailed in the Northeastern and Mid-Atlantic regions, owing to an early-month cool wave. Temperatures averaged as much as 3 degrees F below normal, however, in California, plagued by persistent coolness for most of 1998.

Monthly precipitation totaled more than 200 percent of normal in many areas from Washington southward to northern California, and eastward to western Montana. Precipitation also topped twice the normal on most of the northern and central Plains, in eastern Texas, and across southern Florida. In contrast, less than 50 percent of the normal monthly rainfall dampened southern California, the southern High Plains, and large portions of the Middle Atlantic and Southeastern States.

General Crop Comments: A large mass of cold air descended from Canada early in the month and brought the first major snowstorm days later. Harvest activities were halted and wheat fields were blanketed with at least a few inches of snow in the northern Great Plains. A few days later, another storm delivered a mixture of snow and freezing rain in the northern Plains. As the system moved eastward, it produced heavy rains and damaging winds in parts of the Corn Belt and Mississippi Valley. During the second half of the month, temperatures averaged well above normal across most of the Nation, aiding development of winter wheat in the central and southern Great Plains, Mississippi Delta, southern and eastern Corn Belt, and Southeast. Dry conditions also prevailed over much of the Nation during the last half of the month, aiding harvest efforts and fall tillage operations. Harvest activities slowly resumed late in the month in the northern Plains and upper Mississippi Valley following earlier storms.

Harvest of the Nation's corn and soybean crops was nearing completion as the month began. Progress for both exceeded the average due to early ripening and good harvest weather. Nationally, the corn harvest was more than 1 week ahead of normal, with some areas of the northern Corn Belt more than 2 weeks ahead of average. The soybean harvest pace slowed as the end of the season approached, and was less than 1 week ahead of the 5-year average as the month began. Favorable weather during the month allowed the corn and soybean harvest pace to continue ahead of normal despite isolated delays. The Corn harvest briefly fell behind normal in parts of the central Great Plains near mid-month, but warm, dry weather returned and the harvest pace quickly moved back ahead of the 5-year average.

Most of the Nation's winter wheat was seeded as the month began, but progress was slightly behind normal. Planting was virtually complete in the northern Plains and Rocky Mountains, while growers in the Southeast and Southwest were just starting to gain momentum. By mid-month, most planting in the central and southern Great Plains and eastern Corn Belt was complete. Rain delayed planting efforts in parts of the southern Corn Belt. Dry soils forced growers in the Southeast to delay planting until early-month showers partially relieved topsoil dryness. Emergence also lagged behind normal, partly because of late planting and partly due to dry soils, especially in the Great Plains and Southeast. Emergence improved in the Great Plains and Mississippi Delta after early-month soaking rains. Warm weather during the last half of the month stimulated growth in the central and southern Great Plains, Corn Belt, and lower Mississippi Valley.

The cotton harvest began the month more than 1 week ahead of normal and remained ahead of the average throughout the month. Mostly dry conditions allowed growers in the lower Mississippi Valley to complete their harvest by mid-month. Dry weather also aided harvest in the Southeast, but harvest progress lagged in California due to the late-maturing crop.

Sorghum harvest progressed slightly ahead of normal until mid-month, when rains slowed progress in the Great Plains and southern Corn Belt. Dry conditions aided progress during the second half of the month, except in the northern Plains where progress was halted by early-month winter storms. Harvest resumed late in the month as muddy fields slowly dried. The peanut harvest also progressed ahead of normal, as dry weather prevailed in most peanut producing regions. Florida growers finished harvesting far ahead of the 5-year average.

Cotton: Upland cotton harvested acreage, at 10.1 million acres, is down 22 percent from last year but up 15,000 acres from November. American-Pima harvested acreage, at 246,500 acres, is down 1 percent from 1997.

In Texas, generally favorable weather allowed harvest to proceed at a normal pace in the Plains during November and good progress was made in the Trans-Pecos area. In North Central Texas, harvest also proceeded rapidly but wet conditions deteriorated quality in those fields that remain to be harvested. In late November, 87 percent of Texas' crop was harvested, 8 percent ahead of average. Volunteer cotton was a problem in the Rio Grande Valley, as wet soils prevented producers from plowing. Cotton objective yield data indicate Texas' crop has the third lowest boll weights when compared to the previous 10 year's weights.

The Delta States (Arkansas, Louisiana, Mississippi, Missouri, and Tennessee) made good progress with harvesting operations during November. In Tennessee and Missouri, producers had harvested 99 percent of the acreage on November 29, 2 points ahead of average. The remaining States completed harvest about mid-month, slightly ahead of the normal pace. Data from objective yield surveys show boll weights are the lowest since 1988 in Arkansas, Louisiana, and Mississippi.

Arizona's harvest was 83 percent complete in late November, 7 points behind normal, as rain during the last week of November continued to delay progress. California, at 70 percent harvested, was one-fourth behind their average pace. California fields were being disced for bollworm control as weather permitted and lint quality declined as bolls remained wet. December 1 cotton objective yield counts show boll weights rank seventh since 1988 for California.

In the Southeastern States (Alabama, Georgia, North Carolina, and South Carolina), harvest progress remained ahead of the average pace. Georgia producers harvested 85 percent of the acreage on November 29, only 1 point ahead of the 5-year average, and North Carolina producers harvested 98 percent of the crop compared to the 5-year average of 87 percent. Alabama's harvest was at 99 percent and South Carolina producers had harvested 97 percent of the acreage on November 29. North Carolina's harvested acreage was increased 15,000 acres to 710,000 acres.

American-Pima production is forecast at 432,500 bales, down 21 percent from 1997's output and down 13,500 bales from the November forecast. Yield is indicated at 842 pounds per harvested acre, down 214 pounds from last year's record high yield. The production in Arizona and California was unchanged from the November forecast. Arizona's harvest progressed during November with no weather related interruptions but remained about one week behind the average harvest pace. In California, harvest progressed rapidly during the first half of November, although overall progress remained well behind normal. Light to moderate rains, beginning in mid-month, delayed harvest and deteriorated lint quality. Harvest in the San Joaquin Valley was 80 percent complete in late November. New Mexico's production was reduced 3,500 bales from November and the Texas crop was lowered 10,000 bales.

All cotton ginnings totaled 11,271,800 running bales prior to December 1, compared with 14,734,600 running bales ginned to the same date last year and 14,622,900 running bales in 1996.

Burley Tobacco: U.S. burley tobacco production is forecast at 632 million pounds, down 3 percent from 1997. Yields for 1998 are expected to average 1,960 pounds per acre, 2 pounds below last month's forecast and 99 pounds below the average for 1997. Growers are expected to harvest 322,500 acres, 2 percent above last year but unchanged from last month's forecast. Burley auction markets opened on November 23. As of December 7, total gross sales for the season totaled 210.7 million pounds.

Papayas: Fresh papaya production from Hawaii is estimated at 3.07 million pounds in November, 8 percent higher than October and 1 percent higher than last November. Area devoted to papaya production totaled 3,785 acres in November, unchanged from last month but 22 percent more than November 1997. Harvested area, totaling 2,235 acres, was 3 percent lower than October but 16 percent more than a year ago. Frequent showers over major papaya producing areas in November helped maintain soil moisture levels, especially in unirrigated orchards.

Dry Edible Beans: Production of dry edible beans is estimated at 31.0 million cwt for 1998, 6 percent above 1997 and 11 percent above two years ago. Area for harvest is estimated at 1.92 million acres, up 12 percent from 1997 and 10 percent above 1996. The average yield, at 1,615 pounds per acre, dropped 80 pounds from 1997.

The major producing states of North Dakota, Minnesota, and Colorado had major increases in acres harvested from 1997. Minnesota harvested 175,000 acres, the highest on record. North Dakota harvested 710,000 acres, the fourth highest on record, and Colorado growers cut 160,000 acres.

In North Dakota planting started slightly earlier than the five-year average, and ended one week ahead of average. Dry conditions during August and September also contributed to the harvest progressing two weeks ahead of average. Harvest was virtually complete by the end of September, well ahead of average.

Michigan's dry bean planting proceeded on schedule with dry soil conditions. Germination was slower than normal due to dry, cool soil and deeper planting depth. Dry weather persisted throughout the growing season with harvest nearly complete by October 1, the earliest on record. Yield results were mixed.

Cutting in Nebraska was 6 percent ahead of average by late September but finished in late October slightly behind average. In California the cool wet spring postponed planting and cooler than normal weather hampered drying, making the harvest way behind schedule.

Crop development in Idaho was behind normal for most of the season. Cool, wet weather during May and June was followed by extremely high temperatures and dry conditions in July. The progress of the harvest started behind average with the Southcentral areas reporting rain damage in late September. However, the harvest finished slightly ahead of average in late October.

In New York, the early varieties (black, white, and cranberry) were planted under ideal conditions. The light red varieties, which comprise the largest acreage, lost acreage due to extremely wet conditions during planting. The wet spring also took its toll on yields this season. Excess moisture early in the growing season, followed by a dry spell, resulted in a poor pod set and reduced plant size. The weather during harvest was excellent and progress was two weeks ahead of the normal pace.

Growers in Colorado and Minnesota generally had a good year. Harvest in Colorado was virtually completed by late September. In Wisconsin irrigated acres did well, but non irrigated fields showed shriveled beans in pods and poor yields due to dry conditions. Most dry bean acreage in the state is irrigated. Yields were down in Utah due to dry conditions during the summer. With favorable growing conditions for dry edible beans, Montana had above average yields and good quality.

Even though U.S. production is up, production is below 1997 in all estimating states except Colorado, Minnesota, Montana, North Dakota, Washington, and Wyoming. Colorado increased 33 percent and North Dakota increased 42 percent from 1997.

Production of many minor varieties are below 1997 levels except for black, pink, and pinto varieties. Black production increased 70 percent, pink increased 25 percent, and pinto increased 37 percent from 1997.

Grapefruit: The forecast of the 1998-99 U.S. grapefruit crop remained unchanged at 2.63 million tons, slightly above last season but down 9 percent from the 1996-97 season. The December 1 Florida grapefruit crop is forecast at 50.0 million boxes (2.13 million tons), the same as the October 1 forecast but up 1 percent from a year ago. The white seedless forecast is continued at 18.0 million boxes (765,000 tons) and the colored seedless forecast remained at 31.5 million boxes (1.34 million tons). If realized, the white forecast will be the lowest certification of any season since 1969-70. The colored forecast is a record high, exceeding the certification of 1996-97 by 100,000 boxes. White seedless fruit sizes are now at the average of the past eight seasons, following an improved growth rate last month. The colored seedless growth rate also increased, but sizes remain slightly below average for November. Fruit loss from droppage through the November survey period for total seedless is at the eight-season average. The seedy (Duncan) grapefruit forecast is continued at 500,000 boxes (21,000 tons), a record low utilization. Average fruit sizes continue to be the smallest of the past eight seasons, and loss from droppage continues to be greater than average. All seedy grapefruit are certified in processed form and records are dependent on load tickets.

Grapefruit production in Texas is forecast at 5.00 million boxes (200,000 tons), unchanged from October 1 but up 4 percent from the previous season. Sizes have improved and quality has been good in most groves. California and Arizona grapefruit forecasts were carried forward from October 1.

Tangelos: Florida's December 1 forecast of tangelo production remains at 2.50 million boxes (113,000 tons), 12 percent less than last season's utilized production. Average fruit size is smaller than last year. Loss from droppage is five percent greater than average to date.

Tangerines: The 1998-99 U.S. tangerine crop is forecast at 318,000 tons, unchanged from the October 1 forecast but down 12 percent from last season. Florida's tangerine forecast remains at 4.20 million boxes (200,000 tons), down 19 percent from a year ago. Size and drop for most early varieties are below average. The late maturing tangerines show average fruit size but record high droppage to date. The Arizona and California tangerine forecasts were carried forward from October 1.

Temples: Florida's 1998-99 Temple forecast is 2.00 million boxes (90,000 tons), unchanged from October 1, but 11 percent less than what was utilized last season. If realized, it will be the smallest non-freeze season utilization since the series began in 1954-55. The growth rate is approaching the eight-season average but remains below the mean. Loss from droppage has been minimal, about two percent below average.

K-Early Citrus: The K-Early Citrus Fruit forecast for 1998-99 is 60,000 boxes (3,000 tons), the same as October 1 but 20,000 boxes more than the record low use last season. Estimated utilization through the end of November is 40,000 boxes. There are still some fruit that can be used for processing.

Florida citrus: November was very dry in the majority of Florida's citrus belt. The southern producing areas had several days of rain toward the middle of the month. Most of the other areas needed irrigation to maintain good tree and fruit condition. There was very little new growth except in the southern part of the State, which is normal for this time of year. Fruit maturity is two to three weeks behind last year due to the very hot and dry weather earlier this year. Fresh fruit packers are moving large quantities of Navels and other

early oranges, early tangerines, tangelos, and white and colored grapefruit. Caretakers have been cutting cover crops for the upcoming winter season.

Texas Citrus: Rain slowed harvest for a few days during November; however, most activities moved ahead. Sizes have improved and quality has been good in most groves. Disease and insect problems have been minimal so far.

California Citrus: Navel orange harvesting was slow due to delayed fruit maturity. Fruit size has been small. The Valencia orange harvest was virtually complete by the end of November. Other citrus crops harvested were lemons, pummelos, and satsumas.

California Fruits and Nuts: Harvest of several crops were completed in November. Almond, walnut, and pistachio harvests were finished as were grapes for wine use. Table grapes were picked throughout the month. Major varieties harvested included Emperor, Red Globe, Christmas Rose, and Crimson Seedless. Fuji and Granny Smith apples were picked during November. Fig, olive, kiwifruit, pecan, persimmon, and pomegranate harvests continued. Other grower activities during the month included fertilizing and pruning.

Pecans: U.S. pecan production, as of December 1, is forecast at 157 million pounds (in-shell basis). This is down 14 percent from the October forecast and 54 percent below 1997. Improved varieties are expected to make up 80 percent of the total, or 125 million pounds. New Mexico was the only state expecting a larger crop than on October 1, up 2 million pounds to 30 million. By the end of November 20 percent of the crop had been harvested. Louisiana remained at 13 million pounds, with harvest 76 percent completed as of December 4.

Georgia is forecast at 40 million pounds, down 20 million since October 1. Moisture conditions during the growing period have been the opposite from what was needed. Texas lowered their forecast by 5 million pounds to 35 million. Harvest was slow during November due to heavy rains. Heavy losses were sustained along many Central Texas rivers and creeks due to the rains.

Oklahoma lowered its forecast 2 million pounds to 6 million, with 4.5 million of that being Native varieties. December 1 conditions were rated at 4 percent of the crop very poor and 28 percent poor. The summer drought also impacted quality. Alabama is down 1 million pounds to 6 million with the effects of Hurricane Georges accounting for much of the decrease. Arizona cut 500,000 pounds from their forecast, which now stands at 17 million pounds. Many growers have not yet begun harvest due to warm temperatures and resultant lack of leaf drop.

Sugarcane: U.S. sugarcane growers expect to harvest a record 32.8 million tons for sugar and seed in 1998, up more than 5 percent from the November 1 estimate and nearly 4 percent above the previous record established in 1997. Part of the production increase was due to an increase in acres for harvest to 934,500 acres. A higher forecasted yield accounted for the rest of the production increase. Yield was estimated at 35.1 tons per acre, above the November 1 forecast of 33.4 tons per acre and the 1997 yield of 34.7 tons per acre.

Acres harvested for sugar increased in Texas, reflecting lower abandonment than earlier forecasts. However, most of the acres for seed were lost due to flooding from tropical storms. The estimated yield rose due to increases in the forecasted yields in Louisiana and Florida. In Louisiana, a record yield was forecasted due to a combination of factors including expanded use of higher yielding varieties, an extended growing season,

and late season rains. The yield in Florida would also be a record, if realized. Flooding and high winds from Tropical Storm Mitch did little damage to the crop, but forced mills to shut down operations for several days.

Coffee: Hawaii coffee production is estimated at 9.00 million pounds (parchment basis) for the 1998-99 season, down 4 percent from the previous season. Relatively dry weather conditions hampered flowering and reduced fruit set.

Reliability of December 1 Crop Production Forecasts

Survey Procedures: Cotton objective yield surveys were conducted to gather information on expected yield as of December 1. The objective yield surveys were conducted in the major producing States that normally account for approximately 80 percent of the U.S. production. Randomly selected fields and plots within fields are surveyed each month. At crop maturity, the fruit is harvested and weighed. After the farm operator has harvested the sample field, another plot is sampled to obtain current year harvesting loss.

Estimating Procedures: National and State level objective yield survey estimates were reviewed for errors, reasonableness, and consistency with historical estimates. In addition, reports from cotton ginner in each State were considered. Each State Statistical Office submits their analysis of the current situation to the Agricultural Statistics Board (ASB). The ASB uses the survey data and the State analyses to prepare the published December 1 forecast.

Revision Policy: The December 1 cotton production forecast will not be revised; instead, a new forecast will be made in January followed by end-of-season estimates in May. At the end of the marketing year, administrative records are reviewed and revisions are made, if data relationships warrant changes. Harvested acres may be revised at any time a production forecast is made, if there is strong evidence that the intended harvested area has changed since the last estimate.

Reliability: To assist users in evaluating the reliability of the December 1 production forecasts, the "**Root Mean Square Error**," a statistical measure based on past performance, is computed. The deviation between the December 1 production forecast and the final estimate is expressed as a percentage of the final estimate. The average of squared percentage deviations for the 20-year (1978-1997) period is computed; then the square root of the average becomes statistically the "**Root Mean Square Error**." Probability statements can be made concerning expected differences in the current forecast relative to the final end-of-season estimate, assuming that factors affecting this year's forecast are not different from those influencing recent years.

The "**Root Mean Square Error**" for the December 1 cotton production forecast is 1.6 percent. This means that chances are 2 out of 3 that the current production forecast will not be above or below the final estimate by more than 1.6 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 2.8 percent.

Changes between the December 1 forecast and the final estimate during the past 10 years have averaged 167,000 bales, ranging from 26,000 to 391,000 bales. The December 1 forecast has been below the final estimate 5 times and above 5 times. The difference does not imply that the December 1 cotton forecast this year is likely to understate or overstate final production.

Information Contacts

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Howard Hill - Cherries, Berries, Prunes, Plums,
Cranberries, Grapes, Maple Syrup (202) 720-7235
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