

Crop Production



USDA
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Corn Production Up 1 Percent Soybeans and All Cotton Down Slightly

Corn for grain production is forecast at 9.84 billion bushels, up 1 percent from last month and up 5 percent from 1997. Based on November 1 conditions, yields are expected to average 133.3 bushels per acre, up 1.3 bushels per acre from last month and up 6.3 bushels from a year ago. If realized, this would be the second largest production and the second highest yield on record. Yield prospects increased in Iowa, Nebraska, Ohio, and Wisconsin due to ideal weather conditions during October. The yields in the 3 other major producing states, Illinois, Indiana, and Minnesota, remained unchanged. Acreage for harvest is estimated at 73.8 million acres, unchanged from last month and virtually unchanged from 1997.

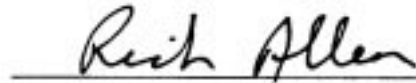
Soybean production is forecast at a record high 2.76 billion bushels, down fractionally from October 1, but 2 percent above last year's record of 2.70 billion bushels. The yield forecast, at 38.6 bushels per acre, is down 0.1 bushels from last month and is 0.2 bushels below the 1997 final yield. If realized, this year's soybean yield will be the third highest yield on record. In the major producing states, the forecasted yields decreased by 2 bushels in Arkansas and Missouri. Yield increased 3 bushels in Ohio but remained unchanged in the other major producing states. Acreage for harvest is estimated at a record 71.6 million acres, unchanged from October 1 but up 3 percent from 1997. As of November 1, the soybean harvest was 89 percent complete.

All cotton production is forecast at 13.2 million bales, down 57,500 bales from last month and down 30 percent from 1997. Yield is expected to average 612 pounds per harvested acre, down 4 pounds from last month and down 68 pounds from last year. Georgia's production was lowered 100,000 bales from the October forecast, as yield potential continued to decline. Arkansas production was increased 50,000 bales. On November 8, U.S. harvest was three-fourths complete, compared to the 5-year average of 69 percent.

This report was approved on November 10, 1998.



Secretary of
Agriculture
Dan Glickman



Agricultural Statistics Board
Chairperson
Rich Allen

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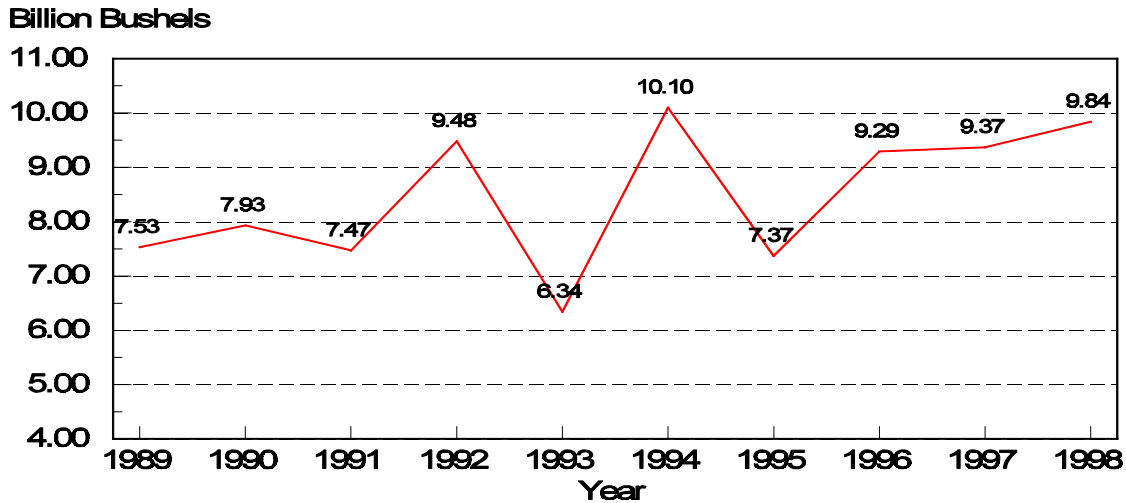
**Corn for Grain: Area Harvested, Yield, and Production by State
and United States, 1997 and Forecasted November 1, 1998**

State	Area Harvested		Yield			Production	
	1997	1998	1997	1998		1997	1998
				Oct 1	Nov 1		
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Bushels</i>	<i>Bushels</i>	<i>Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>
AL	265	290	87.0	55.0	60.0	23,055	17,400
AZ ¹	50	25	170.0	170.0	170.0	8,500	4,250
AR ¹	175	210	125.0	115.0	115.0	21,875	24,150
CA	260	255	170.0	155.0	155.0	44,200	39,525
CO	1,030	1,070	146.0	140.0	140.0	150,380	149,800
CT ²							
DE	144	144	110.0	100.0	100.0	15,840	14,400
FL ¹	80	55	80.0	60.0	60.0	6,400	3,300
GA	500	400	110.0	80.0	80.0	55,000	32,000
ID ¹	40	50	155.0	160.0	160.0	6,200	8,000
IL	11,050	10,400	129.0	143.0	143.0	1,425,450	1,487,200
IN	5,850	5,650	123.0	137.0	137.0	719,550	774,050
IA	12,000	12,400	138.0	143.0	145.0	1,656,000	1,798,000
KS	2,700	2,850	143.0	144.0	144.0	386,100	410,400
KY	1,170	1,250	103.0	118.0	113.0	120,510	141,250
LA ¹	490	650	117.0	80.0	80.0	57,330	52,000
ME ²							
MD	415	420	90.0	100.0	95.0	37,350	39,900
MA ²							
MI	2,250	2,000	117.0	105.0	110.0	263,250	220,000
MN	6,450	6,750	133.0	150.0	150.0	857,850	1,012,500
MS ¹	470	515	107.0	80.0	80.0	50,290	41,200
MO	2,870	2,700	116.0	114.0	111.0	332,920	299,700
MT ¹	14	15	135.0	130.0	130.0	1,890	1,950
NE	8,725	8,550	132.0	143.0	145.0	1,151,700	1,239,750
NH ²							
NJ ¹	93	98	108.0	124.0	124.0	10,044	12,152
NM ¹	85	75	175.0	170.0	170.0	14,875	12,750
NY	650	700	116.0	114.0	120.0	75,400	84,000
NC	870	780	89.0	70.0	70.0	77,430	54,600
ND	605	825	99.0	103.0	105.0	59,895	86,625
OH	3,450	3,200	134.0	141.0	144.0	462,300	460,800
OK ¹	190	240	140.0	120.0	120.0	26,600	28,800
OR ¹	22	28	195.0	180.0	180.0	4,290	5,040
PA	985	1,050	99.0	108.0	108.0	97,515	113,400
RI ²							
SC	335	275	97.0	40.0	40.0	32,495	11,000
SD	3,400	3,850	98.0	110.0	118.0	333,200	454,300
TN	650	690	102.0	100.0	98.0	66,300	67,620
TX	1,800	1,850	138.0	95.0	95.0	248,400	175,750
UT ¹	23	24	135.0	133.0	133.0	3,105	3,192
VT ²							
VA	325	360	93.0	90.0	80.0	30,225	28,800
WA ¹	95	95	190.0	185.0	185.0	18,050	17,575
WV ¹	37	40	95.0	105.0	105.0	3,515	4,200
WI	3,050	2,900	132.0	132.0	137.0	402,600	397,300
WY ¹	57	60	135.0	124.0	124.0	7,695	7,440
US	73,720	73,789	127.0	132.0	133.3	9,365,574	9,836,069

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

² Not estimated.

U.S. Corn Production 1989 - 1998



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**Sorghum for Grain: Area Harvested, Yield, and Production by State
and United States, 1997 and Forecasted November 1, 1998**

State	Area Harvested		Yield			Production	
	1997	1998	1997	1998		1997	1998
				Oct 1	Nov 1		
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Bushels</i>	<i>Bushels</i>	<i>Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>
AL ¹	8	6	50.0	40.0	40.0	400	240
AR	150	130	74.0	57.0	55.0	11,100	7,150
CO	140	150	40.0	48.0	57.0	5,600	8,550
GA ¹	40	30	40.0	37.0	37.0	1,600	1,110
IL	155	145	91.0	88.0	88.0	14,105	12,760
KS	3,500	3,300	78.0	77.0	77.0	273,000	254,100
KY ¹	12	17	75.0	83.0	83.0	900	1,411
LA	98	100	77.0	60.0	60.0	7,546	6,000
MS	33	28	75.0	60.0	60.0	2,475	1,680
MO	440	340	93.0	85.0	79.0	40,920	26,860
NE	750	700	82.0	98.0	98.0	61,500	68,600
NM	235	80	44.0	50.0	50.0	10,340	4,000
NC ¹	11	14	50.0	60.0	60.0	550	840
OK	490	350	50.0	45.0	45.0	24,500	15,750
SC ¹	4	3	40.0	35.0	35.0	160	105
SD	160	125	71.0	68.0	73.0	11,360	9,125
TN ¹	15	20	80.0	75.0	75.0	1,200	1,500
TX	3,150	2,300	59.0	44.0	44.0	185,850	101,200
US	9,391	7,838	69.5	66.5	66.5	653,106	520,981

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

**Rice: Area Harvested, Yield, and Production by State
and United States, 1997 and Forecasted November 1, 1998**

State	Area Harvested		Yield			Production	
	1997	1998	1997	1998		1997	1998
				Oct 1	Nov 1		
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
AR	1,370	1,525	5,650	5,750	5,800	77,370	88,450
CA	510	478	8,300	7,400	7,000	42,341	33,460
LA	548	588	4,630	4,450	4,450	25,364	26,166
MS	238	218	5,800	5,400	5,400	13,804	11,772
MO ¹	109	124	5,300	5,100	5,100	5,777	6,324
TX	259	254	5,500	5,600	5,600	14,240	14,224
US	3,034	3,187	5,896	5,696	5,660	178,896	180,396

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

**Rice: Production by Class, United States,
1996-97 and Forecasted November 1, 1998**

Year	Long Grain	Medium Grain	Short Grain	All
	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
1996	113,351	56,901	1,069	171,321
1997	121,647	55,833	1,416	178,896
1998 ¹	132,366	46,398	1,632	180,396

¹ Indicated November 1, 1998, rice class estimates are based on a 5-year average of class percentages. The class percentages are adjusted as data become available through the growing season.

**Potatoes: Area Planted, Area Harvested, Yield, and Production,
by Seasonal Group, State, and United States, 1997-98**

Seasonal Group and State	Area Planted		Area Harvested		Yield		Production	
	1997	1998	1997	1998	1997	1998	1997	1998
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Cwt</i>	<i>Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
Winter ¹								
Total	15.6	15.5	15.4	15.0	203	199	3,124	2,980
Spring ¹								
Total	88.3	93.2	86.2	89.8	252	217	21,749	19,455
Summer ¹								
Total	68.6	74.4	65.9	70.8	271	276	17,875	19,533
Fall ²								
CA	10.5	10.3	10.5	10.3	400	360	4,200	3,708
CO	77.0	75.8	76.9	75.7	325	335	24,993	25,360
ID	400.0	415.0	398.0	413.0	353	333	140,314	137,725
10 SW Co	27.0	28.0	27.0	28.0	470	450	12,690	12,600
Other ID	373.0	387.0	371.0	385.0	344	325	127,624	125,125
IN	5.3	5.3	4.9	5.0	270	350	1,323	1,750
ME	71.0	65.0	71.0	64.5	270	290	19,170	18,705
MA	2.8	2.9	2.8	2.8	270	225	756	630
MI	48.0	48.0	47.5	47.5	300	290	14,250	13,775
MN	77.0	82.0	73.0	77.0	280	290	20,440	22,330
MT	10.4	10.6	10.4	10.6	320	310	3,328	3,286
NE	19.6	22.0	19.3	21.8	390	400	7,527	8,720
NV	7.0	7.0	6.9	7.0	430	400	2,967	2,800
NM	6.3	6.2	6.3	5.9	420	380	2,646	2,242
NY	28.5	27.6	28.0	27.0	275	275	7,700	7,425
ND	125.0	126.0	105.0	122.0	205	235	21,525	28,670
OH	5.3	5.1	5.0	4.8	235	250	1,175	1,200
OR	54.5	59.0	53.5	58.0	508	450	27,161	26,110
Malheur	11.0	11.5	10.9	11.4	440	410	4,796	4,674
Other OR	43.5	47.5	42.6	46.6	525	460	22,365	21,436
PA	15.0	14.5	14.5	14.0	220	240	3,190	3,360
RI	0.8	0.8	0.8	0.8	270	250	216	200
SD	4.5	5.0	4.2	4.6	250	230	1,050	1,058
UT	3.1	2.7	3.1	2.6	295	280	915	728
WA	152.0	160.0	152.0	160.0	580	560	88,160	89,600
WI	84.0	84.0	83.5	83.0	355	355	29,643	29,465
WY	0.5	0.5	0.5	0.5	280	300	140	150
Total	1,208.1	1,235.3	1,177.6	1,218.4	359	352	422,789	428,997
US	1,380.6	1,418.4	1,345.1	1,394.0	346	338	465,537	470,965

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

² Updated planted and harvested acreage from the July 10, 1998, "Crop Production" report.

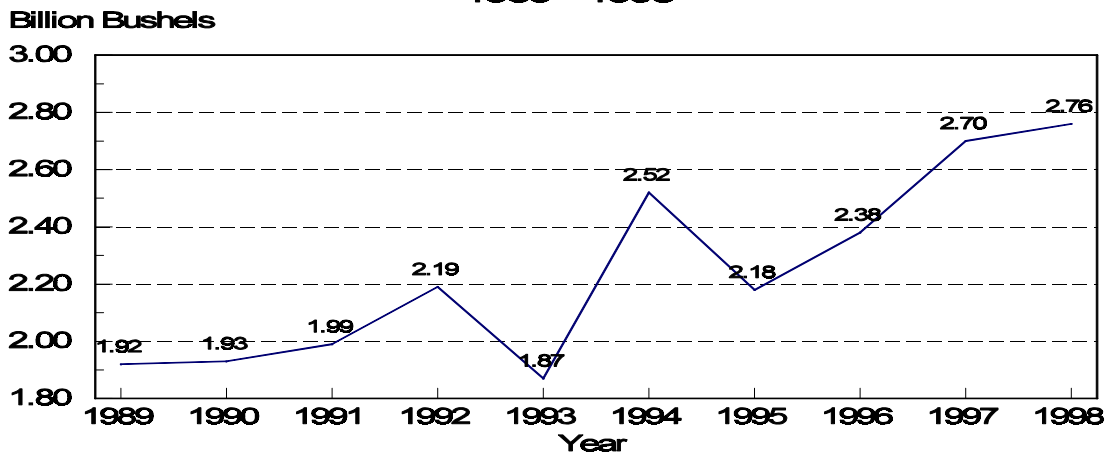
**Soybeans for Beans: Area Harvested, Yield, and Production by State
and United States, 1997 and Forecasted November 1, 1998**

State	Area Harvested		Yield			Production	
	1997	1998	1997	1998		1997	1998
				Oct 1	Nov 1		
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Bushels</i>	<i>Bushels</i>	<i>Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>
AL	385	320	25.0	24.0	24.0	9,625	7,680
AR	3,550	3,350	30.5	27.0	25.0	108,275	83,750
DE	219	215	29.0	26.0	28.0	6,351	6,020
FL ¹	38	35	26.0	23.0	23.0	988	805
GA	410	290	21.0	21.0	20.0	8,610	5,800
IL	9,950	10,650	43.0	45.0	45.0	427,850	479,250
IN	5,300	5,600	43.5	42.0	42.0	230,550	235,200
IA	10,400	10,450	46.0	46.0	46.0	478,400	480,700
KS	2,400	2,500	37.0	34.0	31.0	88,800	77,500
KY	1,280	1,230	34.5	31.0	29.0	44,160	35,670
LA	1,350	1,100	29.0	22.0	20.0	39,150	22,000
MD	525	460	28.0	26.0	26.0	14,700	11,960
MI	1,890	1,890	38.5	37.0	38.0	72,765	71,820
MN	6,600	6,900	39.0	41.0	41.0	257,400	282,900
MS	2,070	1,950	31.0	26.0	25.0	64,170	48,750
MO	4,850	5,100	36.0	36.0	34.0	174,600	173,400
NE	3,450	3,750	40.5	44.0	44.0	139,725	165,000
NJ ¹	132	118	30.0	30.0	30.0	3,960	3,540
NY ²		97		37.0	37.0		3,589
NC	1,330	1,425	29.0	25.0	25.0	38,570	35,625
ND	1,190	1,690	29.0	31.0	31.0	34,510	52,390
OH	4,390	4,490	44.0	41.0	44.0	193,160	197,560
OK ¹	320	380	30.0	23.0	23.0	9,600	8,740
PA ¹	365	390	39.0	40.0	40.0	14,235	15,600
SC	610	540	22.0	19.0	19.0	13,420	10,260
SD	3,450	3,550	35.0	38.0	40.0	120,750	142,000
TN	1,280	1,200	34.0	30.0	30.0	43,520	36,000
TX	400	370	28.0	22.0	22.0	11,200	8,140
VA	490	480	23.0	22.0	22.0	11,270	10,560
WI	960	1,050	44.0	46.0	48.0	42,240	50,400
US	69,584	71,570	38.8	38.7	38.6	2,702,554	2,762,609

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

² NY included beginning with the 1998 crop year.

**U.S. Soybean Production
1989 - 1998**



**Peanuts: Area Harvested, Yield, and Production by State
and United States, 1997 and Forecasted November 1, 1998**

State	Area Harvested		Yield			Production ¹	
	1997	1998	1997	1998		1997	1998
				Oct 1	Nov 1		
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
AL	193.0	196.0	1,930	2,000	2,000	372,490	392,000
FL	84.0	81.0	2,715	2,200	2,350	228,060	190,350
GA	519.0	533.0	2,570	2,500	2,600	1,333,830	1,385,800
NM	17.3	20.0	2,700	2,500	2,600	46,710	52,000
NC	121.0	125.0	2,720	3,000	3,100	329,120	387,500
OK	77.0	75.0	2,400	2,200	2,300	184,800	172,500
SC	10.5	10.5	2,900	1,900	1,900	30,450	19,950
TX	315.0	360.0	2,610	2,500	2,500	822,150	900,000
VA	74.0	75.0	2,560	2,650	2,750	189,440	206,250
US	1,410.8	1,475.5	2,507	2,448	2,512	3,537,050	3,706,350

¹ Estimates comprised of quota and non-quota peanuts.

**Cottonseed: Production, United States,
1996-97 and Forecasted November 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	4,963.0

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

**Cotton: Area Harvested, Yield, and Production by Type, State,
and United States, 1997 and Forecasted November 1, 1998**

Type and State	Area Harvested		Yield			Production ¹	
	1997	1998	1997	1998		1997	1998
				Oct 1	Nov 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	575	601	550.0	570.0
AZ	324.0	249.0	1,255	1,137	1,118	847.0	580.0
AR	940.0	855.0	859	646	674	1,683.0	1,200.0
CA	875.0	650.0	1,202	923	923	2,191.0	1,250.0
FL ³	99.0	80.0	577	498	498	119.1	83.0
GA	1,425.0	1,300.0	646	554	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	596	578	986.0	650.0
MS	970.0	915.0	901	787	776	1,821.0	1,480.0
MO	375.0	330.0	723	567	524	565.0	360.0
NM ³	66.0	59.0	676	781	781	93.0	96.0
NC	665.0	695.0	671	640	656	930.0	950.0
OK	190.0	120.0	462	480	500	183.0	125.0
SC	285.0	280.0	691	540	566	410.0	330.0
TN	480.0	445.0	662	593	593	662.0	550.0
TX	5,150.0	3,050.0	479	472	472	5,140.0	3,000.0
VA ³	100.0	91.0	659	770	770	137.2	146.0
US	13,021.0	10,128.0	673	609	606	18,245.0	12,784.6
Amer-Pima							
AZ	22.0	15.0	912	768	768	41.8	24.0
CA	184.0	184.0	1,141	939	900	437.2	345.0
NM	11.0	10.5	641	800	777	14.7	17.0
TX	32.0	37.0	815	778	778	54.3	60.0
US	249.0	246.5	1,056	899	868	548.0	446.0
All							
AL	442.0	455.0	597	575	601	550.0	570.0
AZ	346.0	264.0	1,233	1,116	1,098	888.8	604.0
AR	940.0	855.0	859	646	674	1,683.0	1,200.0
CA	1,059.0	834.0	1,191	927	918	2,628.2	1,595.0
FL ³	99.0	80.0	577	498	498	119.1	83.0
GA	1,425.0	1,300.0	646	554	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	596	578	986.0	650.0
MS	970.0	915.0	901	787	776	1,821.0	1,480.0
MO	375.0	330.0	723	567	524	565.0	360.0
NM	77.0	69.5	671	784	780	107.7	113.0
NC	665.0	695.0	671	640	656	930.0	950.0
OK	190.0	120.0	462	480	500	183.0	125.0
SC	285.0	280.0	691	540	566	410.0	330.0
TN	480.0	445.0	662	593	593	662.0	550.0
TX	5,182.0	3,087.0	481	476	476	5,194.3	3,060.0
VA ³	100.0	91.0	659	770	770	137.2	146.0
US	13,270.0	10,374.5	680	616	612	18,793.0	13,230.6

¹ Production ginned and to be ginned.

² 480-Lb. net weight bales.

³ Estimates for current year carried forward from previous forecast.

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

State	Area Harvested		Yield		Production		
	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>
CT	2,270	2,725	1,586	1,678	3,795	3,600	4,573
FL	7,300	7,000	2,610	2,440	20,100	19,053	17,080
GA	43,000	42,000	2,075	2,100	113,620	89,225	88,200
IN	8,900	8,500	2,100	2,000	14,972	18,690	17,000
KY	230,500	236,400	2,162	2,030	395,542	498,328	479,825
MD	8,000	7,500	1,500	1,450	10,000	12,000	10,875
MA	1,200	1,165	1,731	1,514	1,212	2,077	1,764
MO ¹	3,000	2,800	2,345	2,300	6,021	7,035	6,440
NC	317,400	264,600	2,304	2,102	585,542	731,419	556,090
OH	11,400	9,800	1,956	1,800	12,640	22,300	17,640
PA	7,600	7,200	2,021	1,986	15,464	15,360	14,301
SC	54,000	45,000	2,340	2,250	117,810	126,360	101,250
TN	59,480	63,580	1,922	1,936	109,888	114,292	123,118
VA	53,080	47,580	2,215	2,157	103,543	117,576	102,612
WV ¹	1,800	1,800	1,700	1,500	2,040	3,060	2,700
WI	2,550	2,300	2,231	2,009	5,162	5,690	4,620
US	811,480	749,950	2,201	2,064	1,517,351	1,786,065	1,548,088

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

**Tobacco: Area Harvested, Yield, and Production by Class, Type,
State, and United States, 1997 and Forecasted November 1, 1998**

Class and Type	Area Harvested		Yield		Production	
	1997	1998	1997	1998	1997	1998
	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Class 1, Flue-cured						
Type 11, Old Belts						
NC	90,000	74,000	2,025	2,100	182,250	155,400
VA	41,000	35,000	2,315	2,200	94,915	77,000
US	131,000	109,000	2,116	2,132	277,165	232,400
Type 12, Eastern NC Belt						
NC	179,000	150,000	2,445	2,150	437,655	322,500
Type 13, NC Border & SC Belt						
NC	40,000	32,000	2,455	2,000	98,200	64,000
SC	54,000	45,000	2,340	2,250	126,360	101,250
US	94,000	77,000	2,389	2,146	224,560	165,250
Type 14, GA-FL Belt						
FL	7,300	7,000	2,610	2,440	19,053	17,080
GA	43,000	42,000	2,075	2,100	89,225	88,200
US	50,300	49,000	2,153	2,149	108,278	105,280
Total 11-14	454,300	385,000	2,306	2,144	1,047,658	825,430
Class 2, Fire-cured						
Type 21, VA Belt						
VA	1,200	1,500	1,640	1,600	1,968	2,400
Type 22, Eastern District						
KY	3,750	3,800	2,560	2,400	9,600	9,120
TN	7,400	7,400	2,480	2,500	18,352	18,500
US	11,150	11,200	2,507	2,466	27,952	27,620
Type 23, Western District						
KY	3,600	3,700	2,970	3,100	10,692	11,470
TN	600	600	2,750	2,750	1,650	1,650
US	4,200	4,300	2,939	3,051	12,342	13,120
Total 21-23	16,550	17,000	2,554	2,538	42,262	43,140
Class 3, Air-cured						
Class 3A, Light Air-cured						
Type 31, Burley						
IN	8,900	8,500	2,100	2,000	18,690	17,000
KY	220,000	225,000	2,140	2,000	470,800	450,000
MO ¹	3,000	2,800	2,345	2,300	7,035	6,440
NC	8,400	8,600	1,585	1,650	13,314	14,190
OH	11,400	9,800	1,960	1,800	22,300	17,640
TN	51,000	55,000	1,830	1,850	93,330	101,750
VA	10,800	11,000	1,905	2,100	20,574	23,100
WV ¹	1,800	1,800	1,700	1,500	3,060	2,700
US	315,300	322,500	2,059	1,962	649,103	632,820
Type 32, Southern MD Belt						
MD	8,000	7,500	1,500	1,450	12,000	10,875
PA	3,000	2,700	1,900	1,880	5,700	5,076
US	11,000	10,200	1,609	1,564	17,700	15,951
Total 31-32	326,300	332,700	2,044	1,950	666,803	648,771

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**Tobacco: Area Harvested, Yield, and Production by Class, Type, State,
and United States, 1997 and Forecasted November 1, 1998 (continued)**

Class and Type	Area Harvested		Yield		Production	
	1997	1998	1997	1998	1997	1998
	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Class 3, Air-cured						
Class 3B, Dark						
Air-cured						
Type 35, One Sucker						
Belt						
KY	2,050	2,500	2,290	2,350	4,695	5,875
TN	480	580	2,000	2,100	960	1,218
US	2,530	3,080	2,235	2,303	5,655	7,093
Type 36, Green River						
Belt						
KY	1,100	1,400	2,310	2,400	2,541	3,360
Type 37, VA Sun-cured						
Belt						
VA	80	80	1,485	1,400	119	112
Total 35-37	3,710	4,560	2,241	2,317	8,315	10,565
Class 4, Cigar Filler						
Type 41, PA Seedleaf						
PA	4,600	4,500	2,100	2,050	9,660	9,225
Class 5, Cigar Binder						
Class 5A, CT Valley						
Binder						
Type 51, CT Valley						
Broadleaf						
CT	1,230	1,400	1,730	1,790	2,128	2,506
MA	780	825	1,850	1,590	1,443	1,312
US	2,010	2,225	1,777	1,716	3,571	3,818
Class 5B, WI Binder						
Type 54, Southern WI						
WI	1,800	1,600	2,330	2,100	4,194	3,360
Type 55, Northern WI						
WI	750	700	1,995	1,800	1,496	1,260
Total 54-55	2,550	2,300	2,231	2,009	5,690	4,620
Total 51-55	4,560	4,525	2,031	1,865	9,261	8,438
Class 6, Cigar Wrapper						
Type 61, CT Valley						
Shade-grown						
CT	1,040	1,325	1,415	1,560	1,472	2,067
MA	420	340	1,510	1,330	634	452
US	1,460	1,665	1,442	1,513	2,106	2,519
All Cigar Types						
Total 41-61	10,620	10,690	1,980	1,888	21,027	20,182
All Tobacco	811,480	749,950	2,201	2,064	1,786,065	1,548,088

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

Sugarbeets: Area Harvested, Yield, and Production by State and United States, 1996-97 and Forecasted November 1, 1998 ¹

State	Area Harvested		Yield		Production		
	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>
CA	99.0	101.0	30.0	27.5	2,419	2,970	2,778
CO	66.4	59.8	19.7	22.2	1,032	1,308	1,328
ID	197.0	203.0	26.4	26.4	4,563	5,210	5,359
MI	160.0	174.0	19.0	16.5	1,963	3,040	2,871
MN	446.0	461.0	18.5	21.1	7,971	8,251	9,727
MT	58.3	63.0	21.0	22.3	1,300	1,224	1,405
NE	60.3	45.9	16.8	19.9	913	1,013	913
NM	1.6		30.6		27	49	
ND	227.5	240.0	18.5	22.0	4,213	4,205	5,280
OH	0.9	1.0	19.0	18.0	86	17	18
OR	17.4	17.5	28.4	25.1	416	494	439
TX	15.0		18.0		242	270	
WA	18.0	36.5	33.1	33.5	461	595	1,223
WY	60.9	53.5	20.4	20.5	1,074	1,240	1,097
Oth Sts							
US	1,428.3	1,456.2	20.9	22.3	26,680	29,886	32,438

¹ Relates to year of intended harvest except for overwintered spring planted beets in CA.

Sugarcane for Sugar and Seed: Area Harvested, Yield, and Production by State and United States, 1996-97 and Forecasted November 1, 1998

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>
FL	440.0	448.0	36.9	36.0	14,498	16,236	16,129
HI	34.2	34.0	88.0	82.0	3,639	3,009	2,788
LA	410.0	420.0	28.2	27.0	10,323	11,546	11,340
TX	29.8	31.5	30.3	29.9	1,002	902	942
US	914.0	933.5	34.7	33.4	29,462	31,693	31,199

¹ Net tons.

**Hazelnuts: Utilized Production, In-shell Basis, by State and United States,
1996-97 and Forecasted November 1, 1998**

State	Utilized Production		
	1996	1997	1998
	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>
OR	18,400	46,850	16,450
WA ¹	100	150	50
US	18,500	47,000	16,500

¹ Estimates for current year carried forward from 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>
Sep	3,070	3,745	1,955	2,335	2,990	2,590
Oct	3,135	3,785	1,955	2,305	3,415	2,850

Corn for Grain: Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 7 corn producing states during 1998. Randomly selected plots in corn for grain fields are visited monthly from August through harvest to obtain specific counts and measurements. Data in these tables are rounded actual field counts from this survey.

**Corn for Grain: Plant Population per Acre,
Selected States, 1994-98**

State	Month	1994	1995	1996	1997	1998
		<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
IL	Sep	23,300	24,000	24,350	25,000	25,550
	Nov	23,200	23,650	24,200	24,900	25,400
IN	Sep	22,800	23,900	23,550	23,700	24,350
	Nov	22,850	24,000	23,500	23,800	24,300
IA	Sep	24,000	24,800	25,000	25,700	25,700
	Nov	23,950	24,650	24,950	25,500	25,600
MN	Sep	26,100	26,400	26,500	26,300	27,750
	Nov	26,000	26,350	26,600	26,600	27,650
NE	Sep	21,900	22,600	22,750	22,850	23,350
	Nov	21,700	22,500	22,700	22,850	23,050
OH	Sep	22,800	23,400	23,100	23,450	25,350
	Nov	22,900	23,300	22,750	23,500	25,450
WI	Sep	24,100	24,600	24,800	24,750	26,600
	Nov	23,600	24,000	24,900	24,800	25,850

**Corn for Grain: Number of Ears per Acre,
Selected States, 1994-98**

State	Month	1994	1995	1996	1997	1998
		<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
IL	Oct	22,650	22,900	23,700	23,500	24,300
	Nov	22,600	22,850	23,600	23,400	24,300
IN	Oct	22,150	23,000	22,750	22,150	23,450
	Nov	22,150	22,950	22,700	22,150	23,350
IA	Oct	24,050	24,050	24,350	24,600	24,250
	Nov	24,000	24,000	24,250	24,550	24,300
MN	Oct	26,950	25,750	26,400	26,150	27,550
	Nov	26,950	25,700	26,450	25,900	27,550
NE	Oct	21,200	21,800	22,600	21,900	22,500
	Nov	21,300	21,700	22,550	21,900	22,500
OH	Oct	22,400	22,650	22,300	22,500	24,800
	Nov	22,500	22,500	22,000	22,300	25,000
WI	Oct	24,600	23,600	24,250	24,350	24,950
	Nov	24,650	23,250	24,650	24,300	24,850

**Corn for Grain: Frequency of Farmer Reported Row Widths,
Selected States, 1995-98**

State	Year	Row Width (inches)				
		Less than 30	30	36	38	More than 38
		<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
IL	1995	1	203	39	24	
	1996		198	29	25	1
	1997	1	223	36	20	1
	1998	3	215	35	26	
IN	1995	3	148	28	8	
	1996		119	23	4	
	1997		149	25	5	
	1998	2	143	19	8	
IA	1995		178	30	79	2
	1996	2	183	24	69	
	1997	1	200	32	59	
	1998	2	208	24	54	
MN	1995	9	114	16	22	
	1996	3	121	22	18	1
	1997	10	126	21	16	
	1998	9	127	26	13	1
NE	1995	1	98	79	16	2
	1996		116	91	20	1
	1997		135	92	18	
	1998	1	140	84	8	
OH	1995		121	7	7	
	1996	1	84	9	5	2
	1997	1	99	10	7	1
	1998	2	104	6	8	1
WI	1995	1	59	13	44	2
	1996	1	45	17	19	2
	1997	2	50	14	36	1
	1998	3	58	8	26	

Corn for Grain: Percentage Distribution by Row Width and Average Row Width, Selected States, 1994-98

State	Year	Number of Samples	Row Width (inches)						Average Row Width
			20.5 or less	20.6-30.5 ¹	30.6-34.5	34.6-36.5	36.6-38.5	38.6 & Greater	
		<i>Number</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Inches</i>
IL	1994	241		52.3	21.6	9.1	11.6	5.4	32.1
	1995	268		56.7	19.4	10.5	12.3	1.1	31.9
	1996	257		63.4	14.4	10.9	9.3	2.0	31.7
	1997	270		61.4	17.8	11.9	7.4	1.5	31.6
	1998	267		64.5	14.6	9.7	10.5	0.7	31.5
IN	1994	158		69.7	13.9	8.2	6.3	1.9	31.2
	1995	175		59.4	21.8	11.4	6.3	1.1	31.4
	1996	146		60.3	21.2	8.9	7.5	2.1	31.5
	1997	169		67.4	16.6	9.5	4.7	1.8	31.3
	1998	168	1.2	57.7	25.0	9.5	5.4	1.2	31.2
IA	1994	276		44.5	20.7	6.2	21.0	7.6	32.9
	1995	288		45.2	14.6	7.6	21.9	10.7	33.3
	1996	281		47.3	19.2	7.5	19.6	6.4	32.7
	1997	281	0.7	48.8	19.2	8.2	19.9	3.2	32.5
	1998	275	0.4	53.1	19.6	8.0	13.8	5.1	32.1
MN	1994	168		61.3	15.5	7.7	9.5	6.0	31.7
	1995	163		64.4	12.2	6.8	14.1	2.5	31.3
	1996	165		60.6	13.9	13.9	7.9	3.7	31.8
	1997	167	0.6	58.6	17.4	10.2	11.4	1.8	31.4
	1998	169	0.6	62.0	17.2	10.1	7.7	2.4	31.1
NE	1994	211		31.7	19.5	27.0	16.6	5.2	33.5
	1995	205		36.1	15.6	28.3	16.1	3.9	33.6
	1996	234		38.0	11.6	35.0	12.8	2.6	33.4
	1997	230		37.4	17.0	30.4	13.5	1.7	33.1
	1998	224	0.4	41.1	17.9	27.2	12.1	1.3	32.8
OH	1994	127		55.9	26.8	5.5	9.4	2.4	31.5
	1995	132		56.1	30.3	2.3	8.3	3.0	31.5
	1996	101		64.4	17.8	5.9	9.9	2.0	31.4
	1997	113	0.9	62.8	18.6	8.0	4.4	5.3	31.5
	1998	116	0.9	73.3	15.5	1.7	5.2	3.4	30.9
WI	1994	115		30.4	20.9	10.4	26.1	12.2	34.1
	1995	110		36.4	15.4	8.2	23.6	16.4	34.0
	1996	84	1.2	33.3	23.8	6.0	23.8	11.9	33.5
	1997	91	1.1	28.5	16.5	13.2	28.6	12.1	34.0
	1998	83	1.2	49.4	14.5	4.8	24.1	6.0	32.5

¹ For 1994-95 this column of data contains information for 30.5 or less.

Soybeans: Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 8 soybean producing States during 1998. Randomly selected plots of soybeans fields are visited monthly from August through harvest to obtain specific counts and measurements. Data in these tables are actual field counts from this survey.

**Soybeans: Pods with Beans per 18 Square Feet,
Selected States, 1994-98**

State	Month	1994	1995	1996	1997	1998
		<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
AR	Sep ¹					
	Nov	1,782	1,755	1,521	2,098	1,640
	Final	1,673	1,609	1,481	1,956	
IL	Sep	1,745	1,816	1,505	1,828	2,087
	Nov	1,639	1,764	1,573	1,708	1,902
	Final	1,636	1,764	1,581	1,708	
IN	Sep	1,850	1,755	1,416	1,622	1,883
	Nov	1,574	1,677	1,470	1,532	1,709
	Final	1,570	1,677	1,457	1,532	
IA	Sep	1,887	1,739	1,654	1,894	1,914
	Nov	1,820	1,611	1,463	1,458	1,745
	Final	1,820	1,616	1,463	1,461	
MN	Sep	1,678	1,613	1,543	1,585	1,598
	Nov	1,496	1,501	1,487	1,506	1,450
	Final	1,496	1,501	1,487	1,506	
MO	Sep	1,470	895	1,491	1,539	1,847
	Nov	1,643	1,462	1,688	1,591	1,878
	Final	1,659	1,469	1,655	1,650	
NE	Sep	1,676	1,404	1,715	1,716	1,849
	Nov	1,826	1,420	1,514	1,345	1,810
	Final	1,826	1,420	1,514	1,342	
OH	Sep	1,950	1,790	1,452	1,711	1,887
	Nov	1,643	1,647	1,378	1,485	1,710
	Final	1,643	1,650	1,383	1,467	

¹ Not available due to plant immaturity.

**Measured Row Width of Soybeans: Percentage Distribution
and Average Width, Selected States, 1994-98**

State	Year	Number of Samples	Row Width (inches)					Average Row Width ¹
			10.0 & less ¹	10.1-18.5	18.6-28.5	28.6-34.5	34.6 & Greater	
		<i>Number</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Inches</i>
AR	1994	127	30.7	10.8	16.7	14.7	27.1	23.9
	1995	119	36.2	10.5	29.0	15.5	8.8	19.7
	1996	124	35.4	6.5	19.0	26.2	12.9	21.6
	1997	126	42.9	13.5	19.4	17.5	6.7	18.0
	1998	124	30.8	13.9	25.8	20.5	9.0	20.1
IL	1994	185	45.6	11.4	3.0	34.6	5.4	18.4
	1995	208	57.1	10.1	2.9	26.0	3.9	16.0
	1996	202	53.2	15.2	2.2	25.5	3.9	16.0
	1997	211	55.2	18.5	3.1	21.1	2.1	15.1
	1998	205	54.5	17.8	2.0	22.0	3.7	15.5
IN	1994	149	58.0	13.1	1.7	23.8	3.4	15.5
	1995	148	68.0	10.2	3.4	17.0	1.4	13.3
	1996	147	69.4	11.2	2.1	14.6	2.7	13.0
	1997	148	59.3	15.6	4.8	14.9	5.4	14.4
	1998	160	62.1	18.8	1.9	15.3	1.9	13.4
IA	1994	207	28.3	9.9	6.0	44.2	11.6	24.2
	1995	206	28.2	10.5	5.6	40.4	15.3	24.6
	1996	216	28.3	12.3	5.1	42.2	12.1	24.4
	1997	211	25.1	19.2	4.0	42.0	9.7	22.3
	1998	217	21.7	22.1	7.1	41.0	8.1	22.1
MN	1994	101	36.2	12.4	6.9	35.6	8.9	20.0
	1995	98	25.0	14.3	9.7	46.4	4.6	21.6
	1996	101	30.8	11.9	10.5	38.8	8.0	21.0
	1997	97	27.8	28.9	5.1	36.1	2.1	18.8
	1998	105	17.6	21.0	15.7	43.8	1.9	22.0
MO	1994	150	46.4	15.0	6.0	23.3	9.3	18.0
	1995	132	53.1	14.0	5.7	22.3	4.9	16.4
	1996	125	48.4	19.2	4.4	20.4	7.6	16.7
	1997	118	47.3	30.1	5.0	11.7	5.9	15.4
	1998	125	49.6	26.4	3.6	14.0	6.4	15.6
NE	1994	74	21.6	6.8	2.7	35.8	33.1	27.8
	1995	87	23.6	8.6	5.2	37.9	24.7	25.2
	1996	74	21.0	11.5	4.7	40.5	22.3	25.3
	1997	74	26.3	13.5	4.1	34.5	21.6	23.6
	1998	96	16.1	18.8	4.2	38.0	22.9	25.2
OH	1994	124	66.5	14.6	3.2	11.7	4.0	12.9
	1995	124	68.0	21.5	1.6	6.9	2.0	11.4
	1996	121	69.5	23.5	1.2	5.8		10.6
	1997	122	71.3	17.6	2.9	7.4	0.8	11.4
	1998	127	74.0	15.3	2.8	7.1	0.8	10.8

¹ Broadcast soybeans included as "10.0 inches and less" but excluded in computation of average width.

Cotton: Cumulative Boll Counts

The National Agricultural Statistics Service is conducting cotton objective yield surveys in 5 States which account for about 65 percent of the U.S. Upland cotton production. Plots are randomly selected from a scientific sample of cotton fields. Two sample plots per field are visited monthly from about August 1 through harvest to obtain specific counts and measurements. Data in this table are actual field counts from this survey.

**Cotton: Cumulative Boll Counts, September and November 1994-98,
and Final, 1994-97 ¹**

State	Month	1994	1995	1996	1997	1998
		<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
AR	Sep	1,019	850	857	975	637
	Nov	813	689	741	810	633
	Final	812	689	741	811	
CA	Sep	828	751	707	701	755
	Nov	805	682	748	697	665
	Final	806	680	744	697	
LA	Sep	808	679	665	639	694
	Nov	747	615	607	643	600
	Final	748	615	607	643	
MS	Sep	864	682	816	908	835
	Nov	761	607	731	835	823
	Final	760	607	729	833	
TX	Sep	515	423	383	500	498
	Nov	484	409	498	468	477
	Final	486	415	498	458	

¹ Includes small bolls (less than one inch in diameter), large unopened bolls (at least one inch in diameter), open bolls, partially opened bolls, and burrs, per 40 feet of row. In November, excludes small bolls.

Fall Potatoes: Percent of Varieties Planted

The National Agricultural Statistics Service conducts variety surveys in 8 major States, accounting for 88 percent of U. S. fall potato production. In the 7 Objective Survey States all producing areas of each State are sampled in proportion to planted acreage. Colorado data are from a special Potato Variety Survey. Variety data shown below are rounded actual percentages from these surveys.

**Fall Potatoes: Percent of Major Varieties Planted,
Selected States and United States, 1998 Crop**

State and Varieties	Pct. of Planted Acres	State and Varieties	Pct. of Planted Acres	State and Varieties	Pct. of Planted Acres
CO ¹		MN (cont'd)		WI	
R Norkotah	41.6	Nor Valley	1.3	R Burbank	37.5
R Nugget	35.1	R Norkotah	0.9	Snowden	16.9
Centennial R	9.3	Ranger R	0.9	R Norkotah	13.8
Yukon Gold	3.4			Norland	10.7
Sangre	2.7	ND		Goldrush	9.7
		R Burbank	37.5	Superior	3.4
ID		Shepody	13.0	Frito-Lay	3.2
R Burbank	77.9	Frito-Lay	12.8	Atlantic	2.3
Ranger R	6.6	Norland	12.3	Ranger R	1.5
Shepody	5.6	Snowden	7.9		
R Norkotah	4.8	Goldrush	3.9	US (8 States)	
		Nor Valley	3.2	R Burbank	54.3
ME		R Norkotah	2.7	R Norkotah	9.9
R Burbank	23.0	La Soda	2.0	Shepody	7.5
Shepody	14.1	Norchip	1.5	Ranger R	5.0
Ontario	12.8	Pontiac	0.9	Norland	3.7
Frito-Lay	10.2			Snowden	2.8
Superior	9.0	OR		Frito-Lay	2.5
Atlantic	4.6	R Burbank	39.5	R Nugget	2.5
Snowden	4.0	R Norkotah	24.8	Goldrush	1.4
R Norkotah	3.5	Shepody	17.2	Superior	0.8
Katahdin	2.9	Ranger R	10.3	Ontario	0.8
Goldrush	2.6	Chieftain	1.6	Centennial R	0.7
Norland	1.9	Snowden	1.1	Atlantic	0.5
Norwis	1.7	Atlantic	1.0	Nor Valley	0.5
Chieftain	1.1			Pontiac	0.5
		WA		La Soda	0.4
MN		R Burbank	58.1	Chieftain	0.3
R Burbank	55.7	R Norkotah	13.2	Yukon Gold	0.2
Norland	16.7	Ranger R	11.4	Nooksack R	0.2
Shepody	8.0	Shepody	8.9	Sangre	0.2
Pontiac	4.5	Snowden	1.7	Norchip	0.2
La Soda	2.2	Nooksack R	1.5	Katahdin	0.2
Frito-Lay	1.9	Chieftain	0.8	Norwis	0.1

¹ CO data are from a special Potato Variety Survey.

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	10,374.5
Upland	13,558.0	12,552.0	13,021.0	10,128.0
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	933.5
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	2,024.0	1,720.2	1,905.9
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	
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	1,235.3	1,177.6	1,218.4
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	4,963
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	612	18,793.0	13,230.6
Upland ²	"	673	606	18,245.0	12,784.6
Amer-Pima ²	"	1,056	868	548.0	446.0
Sugarbeets	Ton	20.9	22.3	29,886	32,438
Sugarcane	"	34.7	33.4	31,693	31,199
Tobacco	Lb	2,201	2,064	1,786,065	1,548,088
Dry Beans, Peas & Lentils					
Austrian Winter Peas ²	Cwt	1,513	1,405	115	104
Dry Edible Beans ²	"	1,695	1,630	29,156	31,070
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		9,400	
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	352	422,789	428,997
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	Lb	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	"	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	183,200	
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	
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	4,198,460
Upland	5,486,790	5,079,670	5,269,470	4,098,700
Amer-Pima	101,170	126,870	100,770	99,760
Sugarbeets	590,560	605,090	578,020	589,310
Sugarcane			369,890	377,780
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	819,090	696,150	771,300
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	
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	499,910	476,560	493,070
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	4,502,360
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	0.69	4,091,690	2,880,620
Upland	0.75	0.68	3,972,380	2,783,520
Amer-Pima	1.18	0.97	119,310	97,110
Sugarbeets	46.91	49.94	27,112,120	29,427,260
Sugarcane	77.73	74.92	28,751,410	28,303,260
Tobacco	2.47	2.31	810,150	702,200
Dry Beans, Peas & Lentils				
Austrian Winter Peas	1.70	1.58	5,220	4,720
Dry Edible Beans	1.90	1.83	1,322,490	1,409,310
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		4,260	
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	39.46	19,177,390	19,458,980
Spearmint Oil	0.11		1,090	
Sweet Potatoes	18.18		612,890	
Taro (HI) ³			2,490	

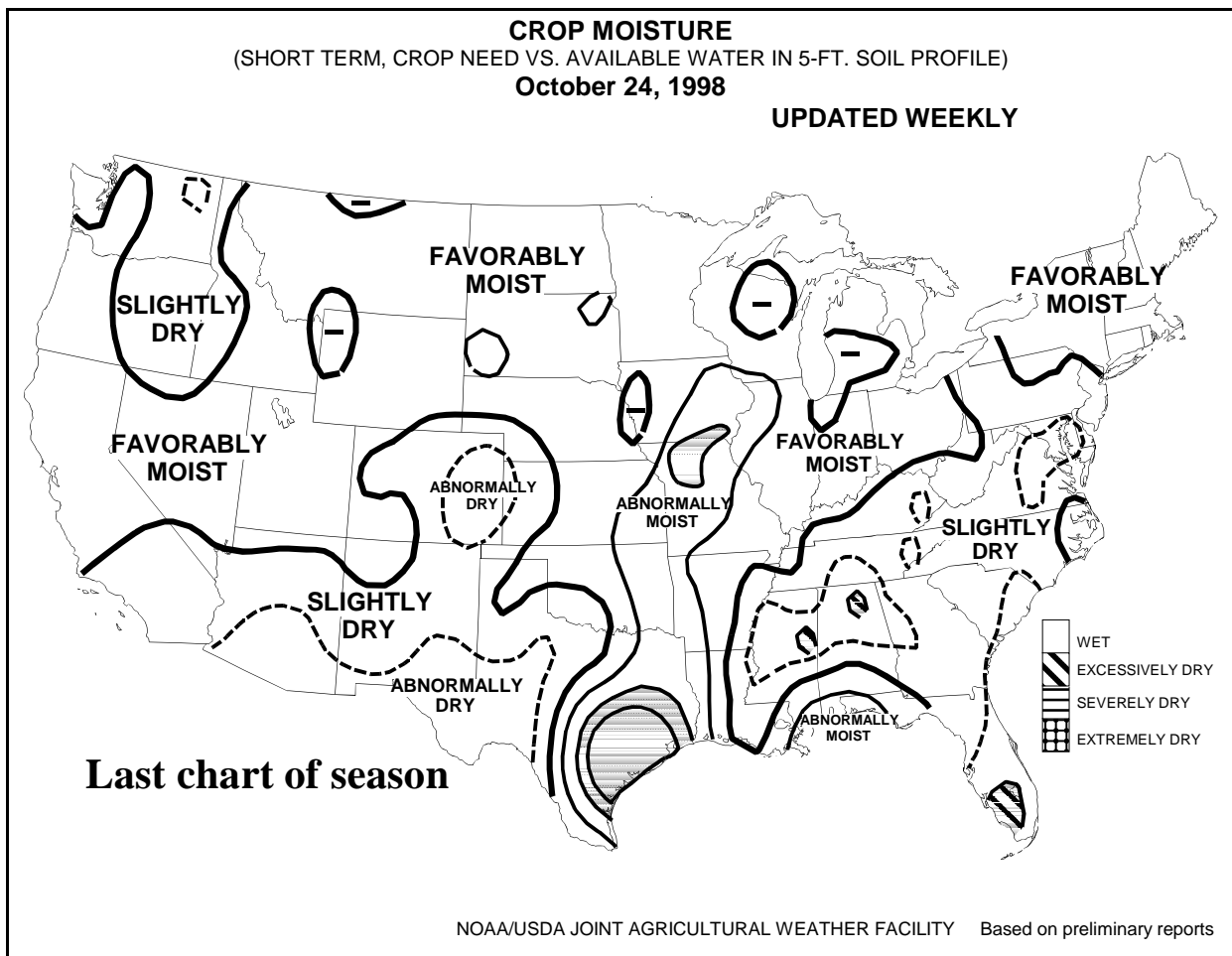
¹ Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 1998 crop year. ² Production may not add due to rounding. ³ Yield is not estimated.

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	83,100	
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.

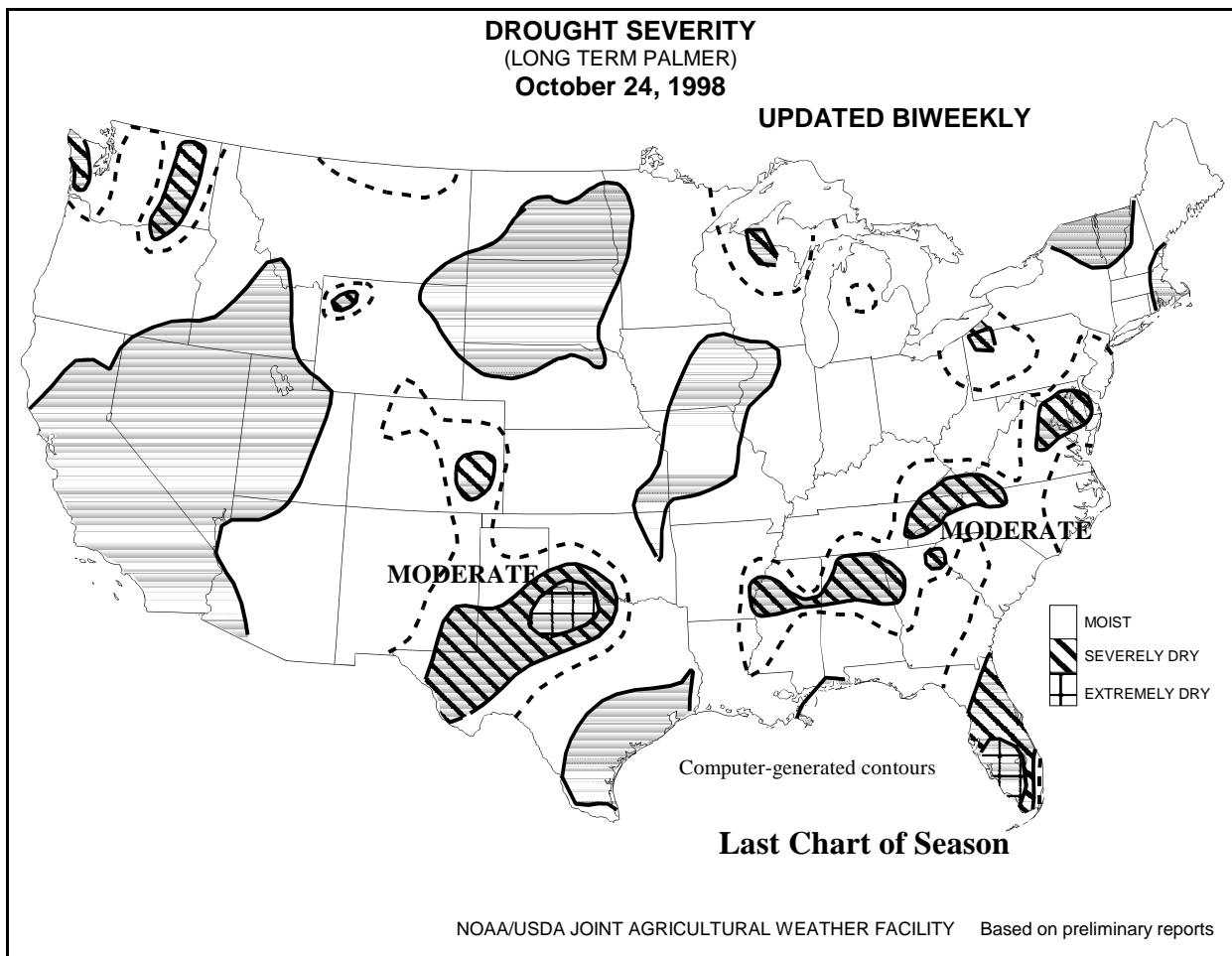


Crop Moisture

Depicts short term (up to about 4 weeks) abnormal dryness or wetness affecting Agriculture, responds rapidly, can change considerably week to week, and indicates normal conditions at the beginning and end of the growing season.

Uses...applicable in measuring the short term, week-to-week, status of dryness or wetness affecting warm season crops and field operations.

Limitations...may not be applicable to germination and shallow rooted crops which are unable to extract the deep or subsoil moisture from a 5-foot profile, or for cool season crops growing when temperatures are averaging below about 55 degrees fahrenheit. It is not generally indicative of the long term (months, years) drought or wet spells which are depicted by the drought severity index.



Drought Severity

Drought severity index (Palmer): Depicts prolonged (months, years) abnormal dryness or wetness; responds slowly; changes little from week to week; and reflects long term moisture runoff, recharge, and deep percolation, as well as evapotranspiration.

Uses...applicable in measuring disruptive effects of prolonged dryness or wetness on water sensitive economies; designating disaster areas of drought or wetness and reflecting the general long-term status of water supplies in aquifers, reservoirs, and streams.

Limitations...is not generally indicative of short-term (few weeks) status of drought or wetness such as frequently affects crops and field operations (this is indicated by the crop moisture index).

October Weather Summary

A very wet weather pattern unfolded across the Plains, eliminating topsoil moisture deficits but slowing cotton harvesting and causing some mid- to late-month flooding. Warm weather (up to 3 degrees F above normal) accompanied the Plains' rainfall, however, fostering winter wheat establishment. Corn Belt harvesting advanced at an ahead-of-normal pace despite above-normal rainfall, as warm weather kept soils from becoming too wet. In the Southeast, where monthly readings ranged from 2 to 5 degrees above normal, dry weather reduced topsoil moisture but promoted summer-crop harvesting and winter wheat planting. Unfavorably dry weather also developed in the Pacific Northwest. In contrast, unusually cool, occasionally showery conditions affected the remainder of the West. Monthly readings ranged from 2 to 5 degrees F below normal in California and the Great Basin.

An active storm track across the Plains and the Northeast resulted in the aforementioned wet weather and contributed to widespread lowland flooding in several areas. In eastern New England, October 8-11 rainfall totaled 4 to locally more than 10 inches. A few days earlier, similar totals had produced minor flooding from northeastern Texas to the middle Mississippi and lower Missouri Valleys. Torrential rainfall (8 to 20 inches) struck southeastern Texas from October 17-19. Resultant flooding left low-lying areas submerged, stranded or washed away livestock, and damaged fences and farm buildings. At month's end, heavy rain (4 to 10 inches) erupted across the central and southern Plains. The rain further eased long-term drought on the southern Plains, but left standing water and caused some wash-outs in winter wheat fields near rivers and streams from western Oklahoma to eastern Kansas.

October precipitation records were established at several sites in the Plains States, including:

<u>Location</u>	<u>Total (Inches)</u>	<u>Former Record/Year</u>
San Antonio, TX	18.07	9.74 in 1994
Wichita, KS	9.42	6.13 in 1959
Aberdeen, SD	7.29	5.14 in 1983
Rapid City, SD	5.60	3.82 in 1982
Glasgow, MT	3.05	1.80 in 1994

Amarillo, Texas (6.48 inches), measured its greatest October precipitation since 1941, and third-highest October total on record. Similarly, Portland, Maine (10.45 inches), experienced its third-wettest October. Meanwhile in California, monthly temperatures in Bakersfield averaged 62.7 degrees F (5.1 degrees below normal), the lowest since 1984.

General Crop Comments: Crops rapidly matured, as temperatures remained seasonable or above-normal east of the Rocky Mountains throughout the month. Harvest momentum accelerated in the Corn Belt, Great Plains, and Southeast, as early-month dry weather aided progress. As the month progressed, most of the Corn Belt and Great Plains received substantial rainfall but the harvest pace remained ahead of the 5-year average. Harvest operations lagged in the Southwest, as crops matured well behind normal especially in California. Dry weather hindered fall seeding operations in the High Plains. Heavy rainfall caused local flooding in the Northeast early in the month and some parts of Texas, Oklahoma, and Kansas experienced flooding and erosion late in the month.

As the month began, nearly all of the Nation's corn had reached maturity and most of the soybeans were dropping leaves, more than 1 week ahead of normal for both crops. Dry weather provided excellent harvest conditions for the first week of the month. Periodic rains interfered with harvest activities during the month, first in the western Corn Belt then later in the southern, central, and eastern Corn Belt. Harvest activities were able to resume in all areas after the brief rain delays and remained well ahead of normal throughout the month. By the end of the month, the harvest season was winding down, more than 1 week early for corn and nearly 1 week early for soybeans.

Cotton development began the month 1 week ahead of normal, with virtually all fields in the Mississippi Delta States in the boll opening stage, much of which was harvested. Most of the crop was mature in the southern Plains and Southeast, but continued to rapidly advance in California. Georges' heavy rains and

subsequent flooding damaged cotton fields along the eastern Gulf coast and halted harvest activity. Harvest efforts were interrupted by rain in the northern and extreme southern areas of the Mississippi Delta, as well as parts of the Atlantic Coastal Plains during the first half of the month. Meanwhile, dry conditions in the central Mississippi Delta region and western Oklahoma aided progress. Harvest accelerated during the last half of the month, as rain delays were mostly limited to the southern Plains. As the month ended, two-thirds of the crop was harvested, ahead of the normal pace, but California producers lagged well behind the 5-year average.

Less than half of the winter wheat was seeded when the month began and only one-fourth had emerged. Early-month rains in the southern Plains were welcomed in spite of the resulting planting delays, as the moisture was needed to germinate seeds. In the northern Rocky Mountains and Pacific Northwest, favorable weather allowed planting to move ahead of the 5-year average. Growers in the eastern Corn Belt also made rapid seeding progress, especially in Ohio, where planting progressed well ahead of normal. In the southern Corn Belt and northern Delta region, rain curtailed planting until mid-month, when progress began to gain momentum. Emergence lagged in the central and southern Plains due to the slow planting pace, but rain during the first half of the month boosted emergence in the northern Plains.

The rice harvest progressed ahead of normal, except in California, where progress continued to lag behind normal throughout the month. Warm weather early in the month aided sorghum development, allowing the harvest pace to accelerate in the Great Plains and southern Corn Belt. By mid-month, harvest was virtually complete in most areas of the Mississippi Delta States and by the end of the month, growers in the southern Corn Belt and Great Plains were nearly finished also. Peanut harvesting fell behind the normal pace due to heavy rains and flooding from Hurricane Georges and continued to lag throughout the month in Georgia and Alabama. In the southern Plains and along the Atlantic Coastal Plains, harvest progressed ahead of normal.

Corn for Grain: Acreage harvested and to be harvested for grain is forecast at 73.8 million acres, unchanged from last month and virtually unchanged from 1997. The November 1 corn objective yield data indicate a record level ear count for the combined seven objective yield States (Illinois, Indiana, Iowa, Minnesota, Nebraska, Ohio, and Wisconsin). The previous record ears per acre was set in 1996. As of November 1, 83 percent of the acreage was harvested in the 17 major States. This compares with 74 percent last year and 68 percent for the 5-year average.

In Iowa, forecasted ear counts are above average but below the final counts in 1996 and 1997. Eighty-six percent of the crop was harvested, ahead of 83 percent last year and the average of 69 percent.

Forecasted ear counts in Nebraska are below 1996 but above average when compared to final levels. Eighty-three percent of the crop was harvested, compared with 66 percent for both 1997 and the average.

Illinois, Indiana, and Ohio ear counts from objective yield data indicate record high levels. In Illinois, 82 percent of the crop was harvested, compared with 88 percent in 1997 and the average of 79 percent. The corn crop was 82 percent harvested in Indiana, ahead of the 58 percent one year ago and the average of 61 percent. The Ohio corn harvest was 71 percent complete, compared with 39 percent last year and the average of 51 percent.

In Minnesota and Wisconsin, forecasted ear counts are at a record level. Ninety percent of the Minnesota acreage was harvested, compared with 88 percent for last year and the average of 67 percent. In Wisconsin, 73 percent of the corn was harvested, compared with 39 percent in 1997 and the average of 46 percent.

Sorghum for Grain: The final production forecast for the 1998 crop is 521 million bushels, down slightly from the October forecast and 20 percent below 1997. The U.S. yield is forecast at 66.5 bushels per acre, unchanged from last month but 3.0 bushels below 1997. Area harvested and to be harvested was unchanged from October, at 7.84 million acres, down 17 percent from the previous year. Arkansas and Missouri showed declines of 2 and 6 bushels per acre, respectively, in yield forecasts from October. Colorado and South Dakota increased their yield forecasts, up 9 and 5 bushels per acre, respectively.

As of November 1, 83 percent of the crop in the 12 major states had been harvested, progressing nearly a week ahead of the 5-year average. Rain the last week of October slowed harvest progress in Texas, Oklahoma, and Kansas.

Rice: Rice production is forecast at 180 million cwt, down slightly from October 1 but up 1 percent from 1997. If realized, this would be the third highest production on record. The average yield is forecast at 5,660 pounds per acre, down 36 pounds from last month and down 236 pounds from a year ago. Area for harvest is expected to total 3.19 million acres, unchanged from October 1 but 5 percent above last year.

The rice production in California declined from last month. Weather conditions have been unfavorable most of the year. Yields in Arkansas increased from last month. The harvest progressed well without any major problems. Yields in Louisiana, Mississippi, Missouri, and Texas remained unchanged from October.

Fall Potatoes: Production of fall potatoes for 1998 is forecast at 429 million cwt, up 1 percent from last year but 5 percent below 1996. Area harvested, at 1.22 million acres, is up 3 percent from last year but 2 percent below 1996. The average yield is forecast at 352 cwt per acre, down 7 cwt from last year and 12 cwt below two years ago. Planting started on time this year and most States had good early weather. A hotter than normal summer caused rougher and smaller potatoes and lower yields in Western States. Harvest in the West was delayed as long as possible to gain more size. Central and Eastern States on the other hand had good size and yields.

Total potato production from all four seasons is estimated at 471 million cwt in 1998, up 1 percent from last year but 6 percent below the record large crop of 1996.

Five Eastern States produced 30.3 million cwt of fall potatoes in 1998, down 2 percent from last year and 11 percent below two years ago. Area for harvest totaled 109,100 acres, down 7 percent from last year. The average yield of 278 cwt per acre gained 13 cwt from a year ago. Planting started early this year, but heavy June rains bogged down some fields. The rest of the summer was on the dry side, resulting in yields that were variable. Production in Maine slipped 2 percent from a year ago because fewer acres were planted; however, average yields were up sharply. Better yields in Pennsylvania pushed production up 5 percent. Production in Massachusetts was down 17 percent, Rhode Island lost 7 percent, and New York dropped 4 percent from last year.

Eight Central States' production is forecast at 107.0 million cwt this year, a jump of 10 percent from last year but slightly below the record crop in 1996. Harvested area totaled 365,700 acres, a gain of 7 percent from last year. The average yield of 293 cwt per acre increased 10 cwt from last year, including record high yields in North Dakota (tied with 1994), Nebraska, and Indiana. Heavy summer rains took out some fields in Minnesota and Ohio, but yields were generally high. Fewer acres for harvest placed Wisconsin's crop down 1 percent from last year. Lower yields in Michigan resulted in a 3 percent smaller potato crop there. The 6 other Central States' productions were up, ranging from about 33 percent in North Dakota and Indiana to 1 percent in South Dakota. Nebraska's potato crop was up 16 percent and Minnesota increased 9 percent from last year. Ohio's production improved 2 percent over last year.

Ten Western States produced 291.7 million cwt in 1998, down 1 percent from last year and 7 percent below two years ago. Acreage harvested, at 743,600 acres, increased 4 percent, while the average yield of 392 cwt per acre was down 19 cwt from a year ago. Summer heat led to smaller sizes, lower solids, and rougher potatoes in eight of the Western States. Farmers delayed digging as late as possible to gain better size. Production is down in most of the Western States primarily because of lower yields. Production in Idaho slid 2 percent from last year, Oregon is off 4 percent, and California dropped 12 percent. New Mexico and Utah production fell 15 and 20 percent, respectively. Nevada's production dropped 6 percent and Montana edged down 1 percent from last year. Higher acreage gave Washington a 2 percent larger crop even though yields were down. Good yields in Colorado swelled their crop by 1 percent and Wyoming by more than 7 percent.

Soybeans: Growers expect to harvest 71.6 million acres of soybeans, up 3 percent from 1997 and unchanged from the October 1998 forecast. As of November 1, 89 percent of the soybean crop was harvested, 1 percentage point ahead of 1997 and 4 points ahead of the average. Harvest progress during October started at a very fast pace but was interrupted by wet conditions in many areas of the Corn Belt between the second and fourth weeks of October.

Soybean harvest was nearing completion across the Corn Belt States. In Iowa, Minnesota and Ohio, harvest was 97 percent complete as of November 1, 2 percentage points behind last year. Ohio was 3 points ahead of 1997. In Illinois, harvest was 92 percent complete and was lagging behind by 6 points compared to last season, while harvest in Indiana, at 94 percent complete, was 2 points behind 1997. Harvest progress in Nebraska and Missouri, at 92 and 81 percent, respectively, was at the same pace as last year.

Harvest in Mid-Atlantic and Southern States was not as advanced, but was running ahead of the previous year. Harvest in Arkansas was 78 percent complete, 15 percentage points ahead of 1997.

For most states, pod counts from the November objective yield survey were higher than final 1997 counts. In Illinois, Indiana, Missouri, and Ohio pod counts for the November survey period were the highest on record. Pod counts were also higher than 1997 in Iowa and Nebraska, but not at record levels.

Peanut: Production is forecast at 3.71 billion pounds, up 3 percent from the October 1 forecast and up 5 percent from last year. Acreage for harvest is estimated at 1.48 millions acres, unchanged from October 1 and 5 percent above 1997. Yields are expected to average 2,512 pounds per acre, up 64 pounds from last month and 5 pounds above 1997.

Production in the Southeastern States (Alabama, Florida, Georgia, and South Carolina) is expected to total 1.99 billion pounds, 3 percent above last month, and 1 percent above the 1997 crop. Harvest lagged behind the 5-year average in Alabama and Georgia while harvest in Florida and South Carolina were ahead of average.

Virginia-North Carolina production is forecast at 594 million pounds, up 3 percent from last month and 15 percent more than a year ago. Yield per harvested acre in the region, at 2,969 pounds, is 100 pounds above last month. In Virginia, harvest was virtually complete as of November 1, slightly ahead of average. Harvest was 85 percent complete in North Carolina, 6 percent ahead of average.

The peanut crop in the Southwest (New Mexico, Oklahoma, and Texas) is expected to total 1.12 billion pounds, up 1 percent from last month and 7 percent above 1997. Yields in the tri-state area are expected to average 2,471 pounds per acre, 20 pounds above last month. On November 1, harvest was 62 percent complete in Texas, 11 percent ahead of the average.

Cotton: Upland cotton harvested acreage, at 10.1 million acres, is up 20,000 acres from last month, but is down 22 percent from last year. American-Pima harvested acres remain unchanged from October, at 246,500 acres and represents a 1 percent decrease from 1997.

Cotton fields in the Texas Plains were being sprayed in preparation for harvest. In early October, a brief cool period slowed boll opening and later in the month rainfall in the Plains delayed harvest. On November 1, harvest was two-thirds complete which was 19 points above the 5-year average. Objective yield data indicate Texas' large boll counts are the sixth highest since 1988 and boll weights rank eighth. In Oklahoma, the crop was 74 percent harvested on November 1, one month ahead of the 5-year average.

The Delta States (Arkansas, Louisiana, Mississippi, Missouri, and Tennessee) harvest was slowed in early October in some areas of this region, but in late October open weather allowed for good progress. In early November, harvest was 8 points behind the 5-year average pace in Missouri at 70 percent but the other States were ahead of the average pace. Louisiana had 97 of the crop harvested, 5 points ahead of the 5-year average. Mississippi and Arkansas producers were 14 points above average with 98 and 91 percent of the acreage

harvested, respectively. Tennessee's progress was 17 points ahead of the 5-year average at 92 percent and excellent harvest conditions allowed growers to proceed with second pickings. Compared to the previous 10 years, large boll counts ranked ninth in Arkansas and boll weights were the lowest. In Mississippi, boll counts were the second highest but boll weights were the lowest. These data also showed Louisiana boll counts and boll weights were the lowest during this same time period.

In early November, Arizona's harvest progress was about one week behind normal at 53 percent. In California, defoliation neared completion in both the San Joaquin and Sacramento valleys during October. The crop remained behind the normal development pace due to the unusual weather early in the season. Harvest was three-fourths complete on the Desert crop. On November 1 California producers had harvested 15 percent of the acreage, well below the 5-year average of 62 percent. Data from the objective yield survey show California's large boll counts as the lowest and boll weights were the third lowest since 1988.

In the Southeastern States (Alabama, Georgia, North Carolina, and South Carolina) rains during early October slowed harvest and defoliation activities, but later in the month, harvest progress increased and Georgia harvested about 40 percent of the acreage during the month. On November 1, Alabama was 14 points ahead of the average harvest pace, at 79 percent, while Georgia equaled their 5-year average, at 58 percent. North Carolina was 21 points ahead of the normal harvest progress with three-fourths of the acreage harvested and South Carolina was 23 points ahead at 77 percent.

American-Pima production is forecast at 446,000 bales, down 15,500 bales from October and down 19 percent from last year's output. Yield is indicated at 868 pounds per harvested acre, down 188 pounds from last year's record high yield. In California, harvest began in late October in the earliest planted fields. Light rains halted harvest briefly, but lint quality suffered no significant damage. Heavy rains in south central New Mexico caused a reduction in yields. The Texas harvest progressed well.

All cotton ginnings totaled 7,361,750 running bales prior to November 1 compared with 7,930,100 running bales ginned to the same date last year and 8,868,700 running bales in 1996.

Tobacco: U.S. all tobacco production for 1998 is forecast at 1.55 billion pounds, down 13 percent from 1997. Harvested acres are estimated at 749,950 acres, 8 percent below last year. Yields for 1998 are expected to average 2,064 pounds per acre, 2 pounds above last month's forecast but 137 pounds below the average for 1997.

Flue-cured production is expected to total 825 million pounds, up slightly from last month's forecast but 21 percent below a year ago. The projected average yield, at 2,144 pounds per acre, increased 4 pounds from October 1 but is 162 pounds below last year's average.

Burley production is forecast at 633 million pounds, unchanged from the October 1 projections but 3 percent below 1997. Average yield, reported at 1,962 pounds per acre, is 97 pounds below the 1997 average. Kentucky burley stripping is advancing ahead of schedule, with 26 percent stripped as of November 1. The crop in Kentucky is rated in mostly good condition.

Sugarbeets: Production is forecast at 32.4 million tons, 9 percent above the 1997 final production estimate, and 3 percent above the October 1 estimate. If realized, production would be the largest on record, exceeding the previous record of 31.9 million tons set in 1994. Acres to be harvested in the 12 sugarbeet-producing states was estimated at slightly less than 1.46 million acres, 2 percent above 1997 but 1,000 acres below the October estimate. Yield is estimated at 22.3 tons per acre, nearly 1.0 ton above October 1 and just 0.1 ton below the record set in 1981 and tied in 1987.

Warm late-season weather extended the growing season in most of the Great Plains States and accounted for the extra tonnage. Higher yields in most of the sugarbeet-producing states pushed U.S. production into record territory. The largest increases were in the Red River Valley of the northern Plains. North Dakota and Minnesota yields and production would be new record highs, if realized. In Minnesota, the production

estimate rose despite an increase in abandonment. Idaho production also took a sizable jump due to higher yield expectations. Other states raising yield and production estimates were Colorado, Montana, Nebraska, Ohio, Oregon, and Wyoming. In California, where cold, wet weather delayed planting and a hot, dry summer hindered development, yields were lower than earlier estimates. Hot, dry weather reduced yields in Michigan compared to a year ago, but accelerated the harvest, which was completed in less than 2 weeks.

Sugarcane: U.S. sugarcane production for sugar and seed in 1998 is expected to total 31.2 million tons, down nearly 2 percent from 1997 and slightly below the October 1 estimate. The area for harvest dropped to 933,500 acres, 500 acres below the previous estimate, but more than 2 percent above last year. The forecasted yield was virtually unchanged from the October 1 estimate, at 33.4 tons per acre, but 1.3 tons below 1997.

Increased abandonment in Texas due to the summer drought accounted for the decrease in harvested acres. As a result of the reduction in harvested acres, the production estimate fell by more than 1 percent. However, the impact on production was partially offset by slightly higher yields on the remaining acres. In Louisiana, insect damage was minimal, but yields were expected to be below 1997, as the summer drought shortened the crop. Hawaii growers expected yields to equal last year's. In Florida, mills opened in mid-October and the milling season was expected to run through mid-March.

Hazelnuts: The U.S. hazelnut production forecast for 1998 is 16,500 tons (in-shell basis), unchanged from October's forecast but down 65 percent from last year's record production. Virtually all the expected production will originate in Oregon, except for 50 tons from Washington. Harvest is nearly complete, despite a very late nut drop. Harvest conditions were generally good. Some orchards had more blanks than normal; otherwise, nut quality is good.

Papayas: Hawaii fresh papaya production is estimated at 2.85 million pounds for October, 10 percent more than a month ago but 17 percent lower than October 1997. Area devoted to papaya production totaled 3,785 acres, 1 percent higher than September and 21 percent higher than a year ago. Harvested area, totaling 2,305 acres, was 1 percent lower than last month but 18 percent higher than last October. Weather conditions during October were variable with a mix of sunshine and occasional heavy showers over the major papaya producing orchards.

Florida citrus: October was drier than normal. The east and west coasts had a few days of rainfall at the beginning of the month associated with Hurricane Georges. Then, the weather turned seasonal with cooler nights, mild days, and moderate temperatures. Several growers and caretakers have been running low volume irrigation to maintain good tree and fruit condition. New growth has slowed with the reduced moisture conditions and fewer hours of daylight. New crop fruit is progressing well in groves receiving good care. Packing houses are moving Ambersweet, Navel, and Hamlin oranges; white and colored grapefruit; K-Early Citrus Fruit; and early tangerines. There are several processors receiving packing house eliminations and grove run fruit. Caretakers have been very active cutting cover crops, spraying, and applying the last fertilization of the year.

Texas Citrus: Harvest progressed slowly in the Rio Grande Valley during October. Most of the Valley received showers or thundershowers which were beneficial to the trees, but slowed picking activity. Early quality has been good on both oranges and grapefruit.

California Citrus: Growers were busy picking lemons, grapefruit, and Satsumas. Maturity of the fruit was behind normal in many citrus groves. Picking of the 1997-98 Valencia orange crop was nearing completion by November 1. The harvest of new crop navel oranges will not begin until early November due to delayed maturity.

California Fruits and Nuts: Maturity of fruit and nut crops was delayed this season due to the cool, wet spring. Consequently, beginning harvest dates were delayed. Harvest of fruit and nut crops was extended into autumn but was winding down by late October. Picking grapes for fresh use was ongoing in the San Joaquin Valley with Emperor, Red Globe, and Ruby Seedless the primary varieties. Thompson Seedless grapes were picked for fresh, raisin, and wine uses. Nearly the entire raisin crop was picked up by November 1. Cool weather has slowed drying. Harvest of wine type grapes was active and growers were plagued with bunch rot. Fuji and Granny Smith apple picking was active, along with figs, persimmons, olives, and pomegranates. Growers were busy picking kiwifruit during October. Small sized fruit was reported. Almond, pistachio, and walnut harvests were completed by month's end. The fall season strawberry harvest was also active.

Reliability of November 1 Crop Production Forecasts

Survey Procedures: Objective yield and farm operator surveys were conducted between October 25 and November 4 to gather information on expected yield as of November 1. The objective yield surveys for corn, soybeans, and cotton were conducted in the major producing States that usually account for about 75 percent of the U.S. production. Randomly selected plots were revisited to make current counts. The items counted within the selected plots depend on the crop and the maturity of that crop. In all cases, number of plants are recorded along with other measurements that provide information to forecast the number of ears, pods, or bolls and their weight. The counts are used with similar data from previous years to develop a projected biological yield. The five-year average harvesting loss is subtracted to obtain a net yield. The plots are revisited each month until crop maturity when 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. The farm operator survey was conducted primarily by telephone with some use of mail and personal interviewers. Approximately 12,000 producers were interviewed during the survey period and asked questions about probable yield.

Estimating Procedures: National and State level objective yield and grower reported survey estimates were reviewed for errors, reasonableness, and consistency with historical estimates. The survey data were also reviewed considering weather patterns and crop progress compared to previous month and previous years. 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 analysis to prepare the published November 1 forecast.

Revision Policy: The November 1 production forecast will not be revised; instead, a new forecast will be made each month throughout the growing season. At the end of the marketing year, administrative records and a balance sheet are utilized using carryover stocks, production, exports, processing, feeding, and ending stocks. Revisions are then made if data relationships warrant changes. Harvested acres may be revised 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 November 1 production forecasts, the "**Root Mean Square Error**", a statistical measure based on past performance, is computed. The deviation between the November 1 production forecast and the final estimate is expressed as a percentage of the final estimate. The average of squared percentage deviations for the 1978-1997 20-year period is computed. 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.

For example, the "Root Mean Square Error" for the November 1 corn for grain production forecast is 2.3 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 2.3 percent. Chances are 9 out of 10 (**90 percent confidence level**) that the difference will not exceed 3.9 percent. Also, shown in the following table is a 10-year record for selected crops of the differences between the November 1 forecast and the final estimates. Using corn again as an example, changes between the November 1 forecast and the final estimate during the past 10 years have averaged 77 million bushels, ranging from 0 million to 258 million bushels. The November 1 forecast has been below the final estimate 5 times, above 4 times and unchanged for 1 time. This does not imply that the November 1 corn forecast this year is likely to understate or overstate final production. For most crops, the number of years the forecasts have been below or above the final estimate is about equally distributed.

Reliability of November 1 Crop Production Forecasts

Crop	Unit	Root Mean Square Error		10-Year Record of Differences Between Forecast and Final Estimate				
		Percent	90 Percent Confidence Interval	Quantity			Years	
				Average	Smallest	Largest	Below Final	Above Final
				<i>Million</i>	<i>Million</i>	<i>Million</i>	<i>Number</i>	<i>Number</i>
Corn For Grain	Bu	2.3	3.9	77	0	258	5	4
Sorghum for Grain	Bu	4.6	8.0	20	3	86	4	6
Rice	Cwt	2.7	4.6	3	0	12	5	5
Soybeans for Beans	Bu	2.8	4.8	20	6	37	5	5
Cotton	Bales	2.6	4.6	360	14	937	6	4

Information Contacts

Listed below are the commodity specialists in the Crops Branch of the National Agricultural Statistics Service to contact for additional information.

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