Crop Production

National Agricultural Statistics Service

United States Department of Agriculture

Washington, D.C.

Released November 9, 1993, by the Agricultural Statistics Board. Forecasts refer to November 1, 1993.

Corn Down 7 Percent
Soybeans Down 3 Percent

Corn production is forecast at 6.50 billion bushels, down 7 percent from the October 1 forecast and 31 percent below the record high production of 1992. Yields are expected to average 103.1 bushels per acre, down 7.2 bushels from last month and 28.3 bushels below the record high yield of 131.4 bushels set last year. Acreage for harvest as grain is estimated at 63.1 million acres, down 15,000 acres from last month. Yields are down sharply from last month in the Western Corn Belt as the late maturing crop was hit hard by an early October frost. Low grain weights per ear and low test weights resulted in much lower yields than previously expected.

Soybean production is forecast at 1.83 billion bushels as of November 1, down 3 percent from the October 1 forecast and 16 percent below 1992. If realized, this would be the lowest production since 1988. Yield is forecast at 32.7 bushels per acre, 1.0 bushel below October 1 and 4.9 bushels below 1992. Area to be harvested, at 56.0 million acres, is down 10,000 acres from the October 1 estimate. Harvest, at 80 percent complete, continues to progress but is behind last year and the average by 3 points.

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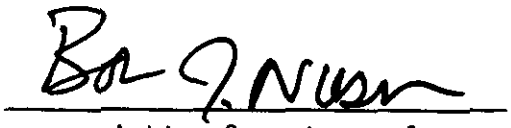
All cotton production, at 16.3 million bales, decreased 4 percent from the October 1 forecast but was 78,000 bales above the 1992 output. Yield decreased 20 pounds from the previous month, to an average of 594 pounds, the result of adverse weather during the growing season. Arkansas' production was off 240,000 bales from October and Texas' production was 100,000 bales lower than last month.

This report was approved on November 9, 1993, by the Acting Secretary of Agriculture and the National Agricultural Statistics Service's Agricultural Statistics Board.



Acting Secretary of
Agriculture
Bob J. Nash

Agricultural Statistics Board
Chairperson
Rich Allen

Crop Summary: Area Planted and Harvested, United States,
1992 and Forecasted November 1, 1993
(Domestic Units)

Crop	Area Planted		Area Harvested 1/	
	1992	1993	1992	1993
	1,000 Acres			
Corn	79,325	73,659	72,144	63,095
Sorghum	13,277	10,735	12,150	9,748
Rice	3,174.0	3,015.0	3,130.0	2,940.0
Soybeans	59,130	59,455	58,183	56,023
Peanuts	1,689.6	1,677.0	1,672.1	1,648.5
All Cotton	13,240.0	13,659.7	11,143.3	13,174.3
Upland	12,976.6	13,462.7	10,883.1	12,982.3
Amer-Pima	263.4	197.0	260.2	192.0
Dry Edible Beans	1,613.6	1,824.6	1,496.9	1,591.9
Potatoes				
Fall	1,151.7	1,186.5	1,132.6	1,126.9
Total	1,339.3	1,380.0	1,315.0	1,311.9
Tobacco			784.7	745.1
Sugarbeets	1,436.1	1,434.7	1,412.8	1,408.0
Sugarcane for Sugar and Seed			925.2	934.6

1/ Harvested for principal use of each crop, ie., grain, beans, nuts, etc.

Crop Summary: Area Planted and Harvested, United States,
1992 and Forecasted November 1, 1993
(Metric Units)

Crop	Area Planted		Area Harvested 1/	
	1992	1993	1992	1993
	Hectares			
Corn	32,102,030	29,809,060	29,195,960	25,533,920
Sorghum	5,373,070	4,344,350	4,916,980	3,944,920
Rice	1,284,490	1,220,140	1,266,680	1,189,790
Soybeans	23,929,320	24,060,840	23,546,080	22,671,950
Peanuts	683,760	678,670	676,680	667,130
All Cotton	5,358,100	5,527,940	4,509,580	5,331,510
Upland	5,251,500	5,448,220	4,404,280	5,253,810
Amer-Pima	106,600	79,720	105,300	77,700
Dry Edible Beans	653,010	738,400	605,780	644,230
Potatoes				
Fall	466,080	480,160	458,350	456,050
Total	542,000	558,470	532,170	530,910
Tobacco			317,570	301,550
Sugarbeets	581,180	580,610	571,750	569,800
Sugarcane for Sugar and Seed			374,420	378,220

1/ Harvested for principal use of each crop, ie., grain, beans, nuts, etc.

Crop Summary: Yield per Acre and Production, United States, 1992 and Forecasted November 1, 1993
(Domestic Units)

Crop and Unit		Yield per Acre: 1992	Yield per Acre: 1993	Production: 1992	Production: Oct 1, 1993	Production: Nov 1, 1993
				1,000		
Corn for Grain	Bu	131.4	103.1	9,478,914	6,961,902	6,503,237
Sorghum for Grain	"	72.8	63.6	884,010	639,054	620,399
Rice 1/	Cwt	5,722	5,511	179,088	165,267	162,024
Soybeans for Beans	Bu	37.6	32.7	2,187,904	1,890,808	1,833,788
Peanuts for Nuts	Lb	2,562	1,973	4,284,306	3,257,700	3,252,750
All Cotton 1/	Bale	699	594	16,218.5	17,013.5	16,296.5
Upland 1/	"	693	588	15,710.2	16,617.5	15,904.5
Amer-Pima 1/	"	938	980	508.3	396.0	392.0
Cottonseed	Ton			6,230.1	6,615.2	6,327.2
Dry Edible Beans 1/	Cwt	1,473	1,406	22,047	23,124	22,385
Potatoes						
Fall	"	335	330	379,525		372,399
Total	"	323	316	425,367		414,811
Tobacco	Lb	2,194	2,154	1,721,598	1,569,717	1,605,339
Sugarbeets	Ton	20.5	18.9	28,928	27,771	26,675
Sugarcane for Sugar and Seed	"	32.8	32.6	30,364	30,479	30,430
Pasture and Range Feed 2/	Pct	78	82			
Hazelnuts	Ton			27.7	39.0	38.0

1/ Yield in pounds.
2/ Pasture and Range Feed condition as of first of month. The 1982-91 average is 73 percent.

Crop Summary: Area Planted and Harvested,
United States, 1992-93
(Domestic Units)

Crop	Area Planted		Area Harvested 1/	
	1992	1993 2/	1992	1993 2/
	1,000 Acres			
Oats	7,961	7,944	4,492	3,813
Barley	7,809	7,936	7,325	7,062
All Wheat	72,264	72,098	62,411	62,982
Winter	51,057	51,727	41,893	43,851
Durum	2,507	2,181	2,449	2,080
Other Spring	18,700	18,190	18,069	17,051
Rye	1,582	1,493	406	381
Sunflower	2,217	2,821	2,072	2,740
Flaxseed	171	202	165	194
All Hay			59,597	60,995
Alfalfa			24,159	24,291
All Other			35,438	36,704
Dry Edible Peas	159.0	145.0	155.0	142.0
Austrian Winter Peas	11.2	13.0	8.7	10.5
Lentils	128.0	143.0	126.0	140.0
Potatoes				
Winter	13.4	14.3	13.4	13.6
Spring	85.3	86.9	83.0	83.8
Summer	88.9	92.3	86.0	87.6
Sweetpotatoes	85.9	84.3	82.4	81.0
Hops			42.3	43.1
	(Hectares)			
Oats	3,221,740	3,214,860	1,817,870	1,543,080
Barley	3,160,220	3,211,620	2,964,350	2,857,920
All Wheat	29,244,520	29,177,340	25,257,110	25,488,190
Winter	20,662,260	20,933,400	16,953,680	17,746,060
Durum	1,014,560	882,630	991,090	841,760
Other Spring	7,567,700	7,361,310	7,312,340	6,900,370
Rye	640,220	604,200	164,300	154,190
Sunflower	897,200	1,141,630	838,520	1,108,850
Flaxseed	69,200	81,750	66,770	78,510
All Hay			24,118,310	24,684,070
Alfalfa			9,776,910	9,830,320
All Other			14,341,400	14,853,740
Dry Edible Peas	64,350	58,680	62,730	57,470
Austrian Winter Peas	4,530	5,260	3,520	4,250
Lentils	51,800	57,870	50,990	56,660
Potatoes				
Winter	5,420	5,790	5,420	5,500
Spring	34,520	35,170	33,590	33,910
Summer	35,980	37,350	34,800	35,450
Sweetpotatoes	34,760	34,120	33,350	32,780
Hops			17,100	17,430

1/ Harvested for principal use of each crop, ie., grain, beans, nuts, etc.
2/ 1993 estimates carried forward from earlier forecast.

Crop Summary: Yield per Acre and Production,
United States, 1992-93
(Domestic Units)

Crop and Unit		Yield per Acre		Production	
		1992	1993 1/	1992	1993 1/
				1,000	
Oats	Bu	65.6	54.6	294,764	208,138
Barley	"	62.5	58.9	457,910	415,763
All Wheat	"	39.4	38.4	2,458,948	2,421,532
Winter	"	38.3	40.3	1,606,534	1,769,308
Durum	"	39.7	35.2	97,196	73,164
Other Spring	"	41.8	34.0	755,218	579,060
Rye	"	29.4	27.1	11,952	10,340
Sunflower	Lb	1,257	1,218	2,604,505	3,336,440
All Hay	Ton	2.50	2.53	149,141	154,026
Alfalfa	"	3.30	3.46	79,652	83,990
All Other	"	1.96	1.91	69,489	70,036
Dry Edible Peas 2/	Cwt	1,635	2,190	2,535	3,110
Austrian Winter Peas 2/	"	1,138	1,571	99	165
Lentils 2/	"	1,243	1,287	1,566	1,802
Potatoes					
Winter	Cwt	224	188	2,998	2,552
Spring	"	259	234	21,535	19,569
Summer	"	248	232	21,309	20,291
Hops	Lb	1,759	1,699	74,336.7	73,172.0
Apples, Comm'l	"			10,719,500	10,512,500
Peaches	"			2,658,500	2,769,100
Pears	Ton			926.1	935.3
Grapes	"			6,051.7	5,607.8
Sweet Cherries	"			208.4	164.9
Tart Cherries	Lb			335,100	328,700
Apricots	Ton			108.0	97.0
Nectarines (CA)	"			236.0	220.0
Olives (CA)	"			165.0	115.0
Plums (CA)	"			250.0	220.0
Dried Prunes (CA)	"			184.0	135.0
Prunes and Plums (Excl CA)	"			38.1	30.0
Almonds (CA)	Lb			548,000	470,000
Pecans	"			166,000	378,500
Walnuts (CA)	Ton			203.0	250.0
Citrus Fruits 3/				1992-93	1993-94
Oranges	Ton			11,062	10,274
Lemons	"			930	923

1/ 1993 estimates carried forward from earlier forecast.
2/ Yield in pounds.
3/ Season begins with the bloom of the first year shown and ends with the completion of harvest the following year.

Crop Summary: Yield per Hectare and Production, United States, 1992 and Forecasted November 1, 1993 (Metric Units)

Crop	Yield per Hectare		Production		
	1992	1993	1992	Oct 1, 1993	Nov 1, 1993
	Metric Tons				
Corn for Grain	8.25	6.47	240,775,510	176,840,460	165,189,830
Sorghum for Grain	4.57	3.99	22,454,890	16,232,720	15,758,860
Rice	6.41	6.18	8,123,300	7,496,390	7,349,290
Soybeans for Beans	2.53	2.20	59,544,990	51,459,360	49,907,530
Peanuts for Nuts	2.87	2.21	1,943,330	1,477,670	1,475,420
All Cotton	0.78	0.67	3,531,160	3,704,250	3,548,150
Upland	0.78	0.66	3,420,490	3,618,030	3,462,800
Amer-Pima	1.05	1.10	110,670	86,220	85,350
Cottonseed			5,651,850	6,001,210	5,739,940
Dry Edible Beans	1.65	1.58	1,000,040	1,048,890	1,015,370
Potatoes					
Fall	37.56	37.04	17,214,970		16,891,740
Total	36.26	35.44	19,294,330		18,815,510
Tobacco	2.46	2.41	780,900	712,010	728,170
Sugarbeets	45.90	42.47	26,243,040	25,193,430	24,199,150
Sugarcane for Sugar and Seed	73.57	72.99	27,545,760	27,650,080	27,605,630
Hazelnuts			25,130	35,380	34,470

Crop Summary: Yield per Hectare and Production,
United States, 1992-93
(Metric Units)

Crop	Yield per Hectare		Production	
	1992	1993 1/	1992	1993 1/
			Metric Tons	
Oats	2.35	1.96	4,278,490	3,021,110
Barley	3.36	3.17	9,969,810	9,052,170
All Wheat	2.65	2.59	66,921,600	65,903,300
Winter	2.58	2.71	43,722,690	48,152,670
Durum	2.67	2.37	2,645,240	1,991,200
Other Spring	2.81	2.28	20,553,670	15,759,430
Rye	1.85	1.70	303,590	262,650
Sunflower	1.41	1.36	1,181,380	1,513,380
All Hay	5.61	5.66	135,298,440	139,730,040
Alfalfa	7.39	7.75	72,259,080	76,194,450
All Other	4.40	4.28	63,039,360	63,535,590
Dry Edible Peas	1.83	2.45	114,990	141,070
Austrian Winter Peas	1.28	1.76	4,490	7,480
Lentils	1.39	1.44	71,030	81,740
Potatoes				
Winter	25.09	21.05	135,990	115,760
Spring	29.08	26.18	976,810	887,630
Summer	27.77	25.96	966,560	920,380
Hops	1.97	1.90	33,720	33,190
Apples, Comm'l			4,862,280	4,768,390
Peaches			1,205,880	1,256,040
Pears			840,140	848,490
Grapes			5,489,960	5,087,310
Sweet Cherries			189,060	149,590
Tart Cherries			152,000	149,100
Apricots			97,980	87,950
Nectarines (CA)			214,100	199,580
Olives (CA)			149,690	104,330
Plums (CA)			226,800	199,580
Dried Prunes (CA)			166,920	122,470
Prunes and Plums (Excl CA)			34,560	27,220
Almonds (CA)			248,570	213,190
Pecans			75,300	171,680
Walnuts (CA)			184,160	226,800
Citrus Fruits 2/			1992-93	1993-94
Oranges			10,035,280	9,320,420
Lemons			843,680	837,330

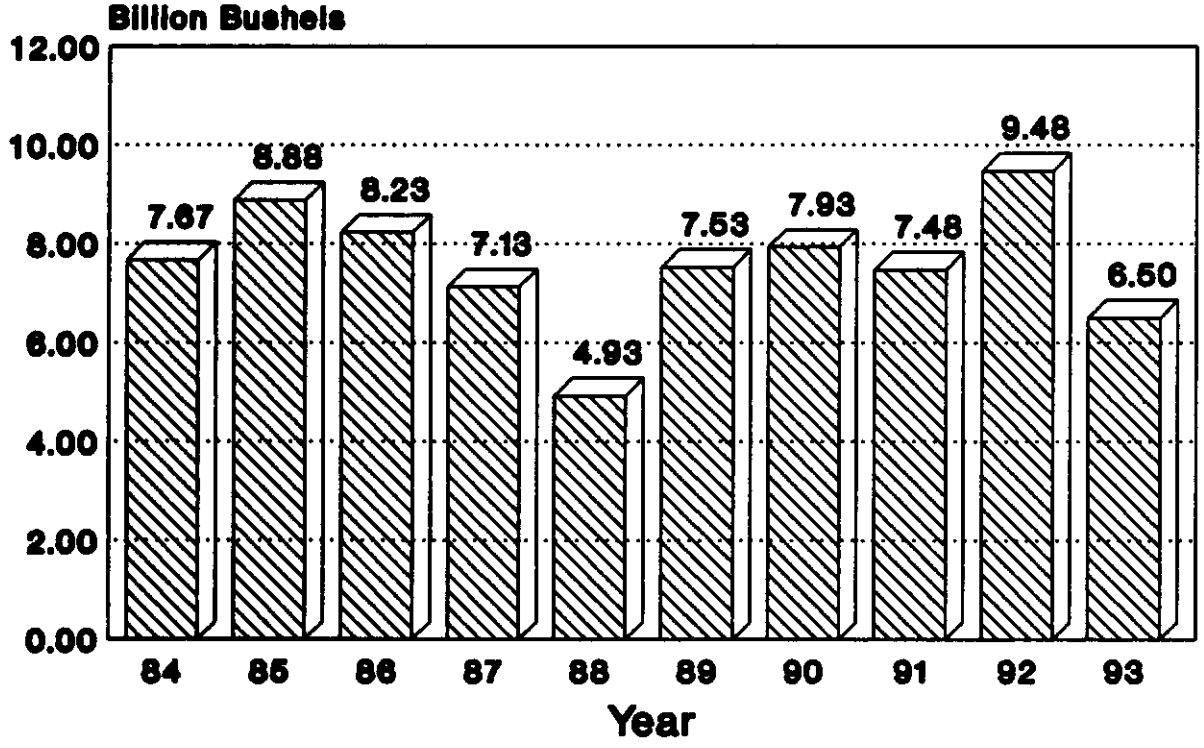
1/ 1993 estimates carried forward from earlier forecast.
2/ Season begins with the bloom of the first year shown and ends with the completion of harvest the following year.

Corn for Grain: Area Harvested, Yield, and Production by State and United States, 1992 and Forecasted November 1, 1993

State	Area Harvested		Yield			Production	
				1993			
	1992	1993	1992	Oct 1	Nov 1	1992	1993
	- 1,000 Acres -		------- Bushels -------			--- 1,000 Bushels --	
AL	320	305	94.0	65.0	65.0	30,080	19,825
AZ 1/	11	11	170.0	170.0	170.0	1,870	1,870
AR 1/	95	100	130.0	125.0	125.0	12,350	12,500
CA	145	170	165.0	165.0	170.0	23,925	28,900
CO	835	815	148.0	136.0	125.0	123,580	101,875
CT 2/							
DE	161	157	119.0	80.0	80.0	19,159	12,560
FL 1/	110	100	75.0	58.0	58.0	8,250	5,800
GA	690	540	100.0	65.0	65.0	69,000	35,100
ID 1/	33	50	130.0	120.0	120.0	4,290	6,000
IL	11,050	10,000	149.0	135.0	129.0	1,646,450	1,290,000
IN	5,970	5,450	147.0	133.0	128.0	877,590	697,600
IA	12,950	10,800	147.0	105.0	85.0	1,903,650	918,000
KS	1,730	1,800	150.0	135.0	130.0	259,500	234,000
KY	1,300	1,240	132.0	102.0	104.0	171,600	128,960
LA 1/	309	250	120.0	110.0	110.0	37,080	27,500
ME 2/							
MD	470	410	124.0	90.0	85.0	58,280	34,850
MA 2/							
MI	2,300	2,200	105.0	110.0	110.0	241,500	242,000
MN	6,500	4,600	114.0	85.0	80.0	741,000	368,000
MS 1/	300	200	90.0	80.0	80.0	27,000	16,000
MO	2,400	1,750	135.0	100.0	93.0	324,000	162,750
MT 1/	25	21	110.0	115.0	115.0	2,750	2,415
NE	7,900	7,600	135.0	118.0	108.0	1,066,500	820,800
NH 2/							
NJ 1/	82	82	120.0	90.0	90.0	9,840	7,380
NM 1/	71	75	160.0	165.0	165.0	11,360	12,375
NY	670	590	92.0	104.0	102.0	61,640	60,180
NC	1,040	850	95.0	60.0	60.0	98,800	51,000
ND	580	380	63.0	55.0	50.0	36,540	19,000
OH	3,550	3,100	143.0	113.0	112.0	507,650	347,200
OK 1/	135	140	130.0	120.0	120.0	17,550	16,800
OR 1/	15	20	150.0	140.0	140.0	2,250	2,800
PA	990	970	120.0	94.0	94.0	118,800	91,180
RI 2/							
SC	350	245	88.0	38.0	38.0	30,800	9,310
SD	3,300	2,550	84.0	65.0	63.0	277,200	160,650
TN	640	590	124.0	78.0	78.0	79,360	46,020
TX	1,620	1,900	125.0	115.0	115.0	202,500	218,500
UT 1/	24	24	135.0	138.0	138.0	3,240	3,312
VT 2/							
VA	345	260	116.0	60.0	60.0	40,020	15,600
WA 1/	88	90	180.0	170.0	170.0	15,840	15,300
WV 1/	50	45	108.0	100.0	100.0	5,400	4,500
WI	2,950	2,550	104.0	103.0	97.0	306,800	247,350
WY 1/	40	65	98.0	115.0	115.0	3,920	7,475
US	72,144	63,095	131.4	110.3	103.1	9,478,914	6,503,237

1/ Estimates for current year carried forward from earlier forecast.
2/ Not estimated.

U.S. Corn Production
1984 - 1993



Sorghum for Grain: Area Harvested, Yield, and Production, by State and United States, 1992 and Forecasted November 1, 1993

State	Area Harvested		Yield			Production	
				1993			
	1992	1993	1992	Oct 1	Nov 1	1992	1993
	1,000 Acres		Bushels			1,000 Bushels	
AL 1/	25	21	50.0	38.0	38.0	1,250	798
AR	410	230	76.0	60.0	59.0	31,160	13,570
CO	190	190	37.0	43.0	41.0	7,030	7,790
GA 1/	55	45	48.0	38.0	38.0	2,640	1,710
IL	260	210	103.0	100.0	90.0	26,780	18,900
KS	3,050	2,800	80.0	70.0	70.0	244,000	196,000
KY 1/	19	13	100.0	75.0	75.0	1,900	975
LA	224	130	68.0	65.0	65.0	15,232	8,450
MS	*150*	*60*	*70.0*	*68.0*	*65.0*	*10,500*	*3,900*
MO	720	660	97.0	80.0	77.0	69,840	50,820
NE	1,530	1,250	94.0	73.0	64.0	143,820	80,000
NM	205	155	60.0	55.0	50.0	12,300	7,750
NC 1/	20	15	50.0	50.0	50.0	1,000	750
OK	330	320	53.0	50.0	52.0	17,490	16,640
SC 1/	12	9	34.0	14.0	14.0	408	126
SD	380	300	37.0	56.0	48.0	14,060	14,400
TN 1/	70	40	80.0	78.0	78.0	5,600	3,120
TX	4,500	3,300	62.0	59.0	59.0	279,000	194,700
US	12,150	9,748	72.8	65.6	63.6	884,010	620,399

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

Rice: Area Harvested, Yield, and Production, by State and United States, 1992 and Forecasted November 1, 1993

State	Area Harvested		Yield			Production	
				1993			
	1992	1993	1992	Oct 1	Nov 1	1992	1993
	1,000 Acres		Pounds			1,000 Cwt	
AR	1,380	1,330	5,500	5,200	5,000	75,914	66,500
CA	392	437	8,400	8,200	8,300	32,920	36,271
LA	620	530	4,650	4,700	4,600	28,846	24,380
MS	275	245	5,700	5,500	5,300	15,675	12,985
MO 1/	112	100	4,800	5,200	5,200	5,376	5,200
TX	351	298	5,800	5,600	5,600	20,357	16,688
US	3,130	2,940	5,722	5,621	5,511	179,088	162,024

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

Rice: Production by Class, United States, 1991-92 and Forecasted November 1, 1993

Year	Long Grain	Medium Grain	Short Grain	All
	1,000 Cwt			
1991	109,137	47,567	753	157,457
1992	128,079	50,387	622	179,088
1993 1/	114,139	47,099	786	162,024

1/ Indicated November 1, 1993, rice class forecasts are based on a five-year average of yield differences by class and current acreage estimates.

Potatoes: Area Harvested, Yield, and Production, by Seasonal Group, State, and United States, 1991-93

Seasonal Group and State	Area Harvested		Yield		Production		
	1992	1993	1992	1993	1991	1992	1993
	- 1,000 Acres -		---- Cwt ----		------ 1,000 Cwt ------		
Winter 1/	13.4	13.6	224	188	2,609	2,998	2,552
Spring 1/	83.0	83.8	259	234	20,636	21,535	19,569
Summer 1/	86.0	87.6	248	232	22,647	21,309	20,291
Fall							
CA	14.0	12.0	400	400	5,390	5,600	4,800
CO	66.0	72.2	335	345	23,800	22,110	24,909
ID							
10 SW Co	22.0	24.0	435	435	9,020	9,570	10,440
Other ID	356.0	364.0	330	305	113,155	117,480	111,020
IN	4.3	4.1	230	250	902	989	1,025
ME	81.0	79.5	300	265	18,170	24,300	21,068
MA	3.0	3.0	275	205	585	825	615
MI	36.0	38.0	300	310	8,840	10,800	11,780
MN	67.0	55.0	240	220	17,160	16,080	12,100
MT	8.5	9.0	290	300	2,790	2,465	2,700
NE	8.3	9.4	325	305	2,464	2,698	2,867
NV	7.5	7.7	390	380	2,546	2,925	2,926
NM 2/	5.1	5.8	450	425		2,295	2,465
NY							
Long Is	6.2	6.3	320	270	1,650	1,984	1,701
Upstate	20.8	22.0	280	265	5,267	5,824	5,830
ND	142.0	111.0	195	180	30,030	27,690	19,980
OH	6.0	5.7	240	190	1,425	1,440	1,083
OR							
Malheur	7.5	8.7	410	430	2,640	3,075	3,741
Other OR	37.5	40.7	480	480	19,530	18,000	19,536
PA	19.0	20.0	260	230	3,500	4,940	4,600
RI	1.3	1.2	290	200	241	377	240
SD	6.0	5.2	250	205	1,775	1,500	1,066
UT	6.0	6.2	275	265	1,620	1,650	1,643
WA	132.0	145.0	525	560	75,435	69,300	81,200
WI	68.0	69.5	370	325	23,275	25,160	22,588
WY	1.6	1.7	280	280	520	448	476
Total	1,132.6	1,126.9	335	330	371,730	379,525	372,399
US	1,315.0	1,311.9	323	316	417,622	425,367	414,811

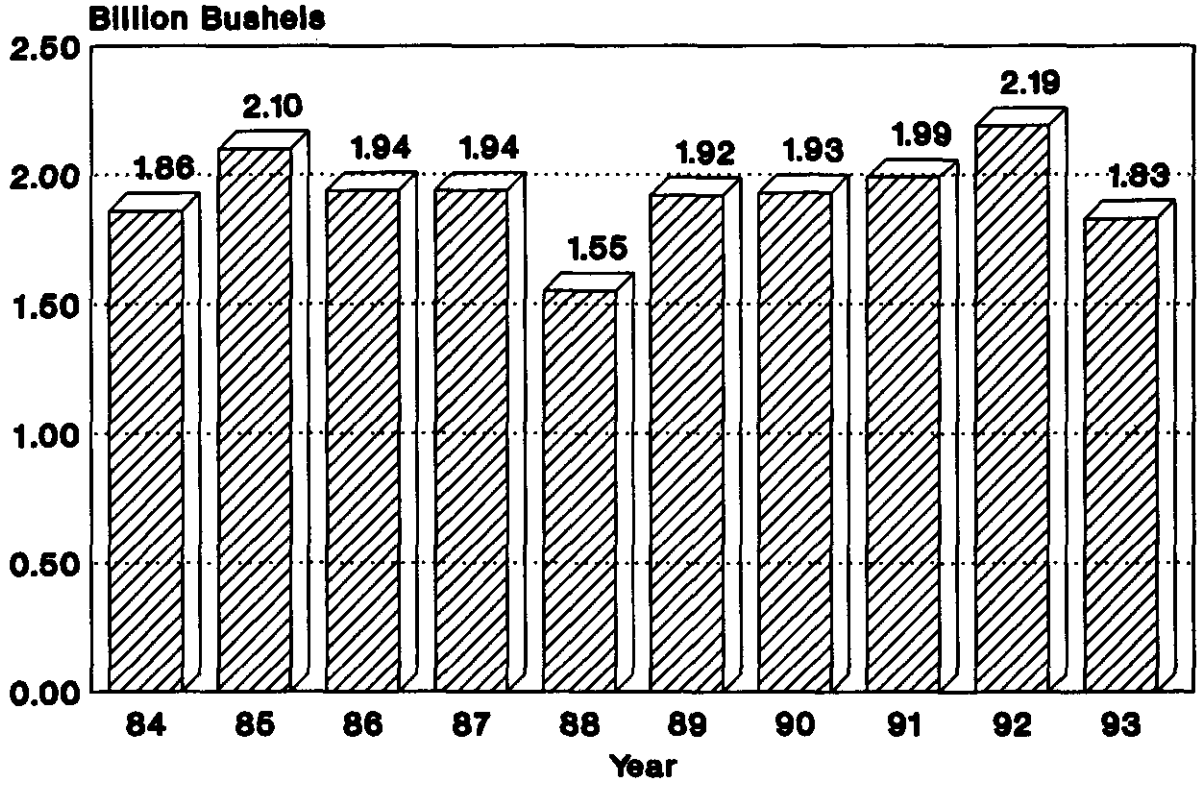
1/ Estimates for current year carried forward from earlier forecast.
2/ District I (NW Counties) not included in 1991 fall potatoes.

Soybeans for Beans: Area Harvested, Yield, and Production by State and United States, 1992 and Forecasted November 1, 1993

State	Area Harvested		Yield			Production	
				1993			
	1992	1993	1992	Oct 1	Nov 1	1992	1993
	- 1,000 Acres -		------- Bushels -------			-- 1,000 Bushels ---	
AL	270	295	29.0	24.0	24.0	7,830	7,080
AR	3,160	3,450	33.0	26.0	26.0	104,280	89,700
DE	215	215	32.0	29.0	27.0	6,880	5,805
FL 1/	50	50	27.0	31.0	31.0	1,350	1,550
GA	640	500	29.0	17.0	15.0	18,560	7,500
IL	9,430	8,700	43.0	44.0	44.0	405,490	382,800
IN	4,520	4,880	43.0	47.0	45.0	194,360	219,600
IA	8,120	8,000	44.0	34.0	31.0	357,280	248,000
KS	1,850	1,800	37.0	29.0	29.0	68,450	52,200
KY	1,160	1,150	38.0	33.0	33.0	44,080	37,950
LA	1,170	1,200	30.0	23.0	22.0	35,100	26,400
MD	545	570	33.0	30.0	30.0	17,985	17,100
MI	1,440	1,430	33.0	36.0	36.0	47,520	51,480
MN	5,400	5,000	32.0	25.0	23.0	172,800	115,000
MS	1,750	1,900	34.0	24.0	24.0	59,500	45,600
MO	4,250	3,500	38.0	35.0	35.0	161,500	122,500
NE	2,460	2,450	42.0	36.0	36.0	103,320	88,200
NJ 1/	128	138	33.0	31.0	31.0	4,224	4,278
NC	1,350	1,200	27.0	24.0	24.0	36,450	28,800
ND	690	500	25.0	19.0	17.0	17,250	8,500
OH	3,630	4,170	40.0	39.0	37.0	145,200	154,290
OK 1/	220	280	27.0	23.0	23.0	5,940	6,440
PA 1/	285	295	39.0	37.0	37.0	11,115	10,915
SC	670	520	22.0	16.0	15.0	14,740	7,800
SD	2,250	1,600	28.0	21.0	20.0	63,000	32,000
TN	950	1,000	35.0	28.0	29.0	33,250	29,000
TX	390	190	33.0	20.0	20.0	12,870	3,800
VA	500	460	31.0	20.0	20.0	15,500	9,200
WI	690	580	32.0	35.0	35.0	22,080	20,300
US	58,183	56,023	37.6	33.7	32.7	2,187,904	1,833,788

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

U.S. Soybean Production
1984 - 1993



Peanuts for Nuts: Area Harvested, Yield, and Production by State and United States, 1992 and Forecasted November 1, 1993

State	Area Harvested		Yield			Production 1/	
				1993			
	1992	1993	1992	Oct 1	Nov 1	1992	1993
	1,000 Acres		Pounds			1,000 Pounds	
AL	236.0	234.0	2,505	1,800	1,900	591,180	444,600
FL	80.0	77.0	2,530	2,500	2,500	202,400	192,500
GA	673.0	665.0	2,705	1,900	1,900	1,820,465	1,263,500
NM	21.1	23.0	2,760	2,800	2,800	58,236	64,400
NC	153.0	152.0	2,660	1,800	1,800	406,980	273,600
OK	98.0	98.0	2,410	2,500	2,400	236,180	235,200
SC	13.0	13.5	2,500	1,600	1,700	32,500	22,950
TX	305.0	295.0	2,230	2,100	2,100	680,150	619,500
VA	93.0	91.0	2,755	1,700	1,500	256,215	136,500
US	1,672.1	1,648.5	2,562	1,975	1,973	4,284,306	3,252,750

1/ Estimates comprised of quota and non-quota peanuts.

Cottonseed: Production, United States, 1991-92 and Forecasted November 1, 1993

State	Production		
	1991	1992	1993
	1,000 Tons		
US	6,925.5	6,230.1	6,327.2

Cotton: Area Harvested, Yield, and Production, by Type, State, and United States, 1992 and Forecasted November 1, 1993

Type and State	Area Harvested		Yield			Production 1/	
				1993			
	1992	1993	1992	Oct 1	Nov 1	1992	1993
	- 1,000 Acres -		-------- Pounds -------			-- 1,000 Bales 2/ --	
Upland							
AL	408.0	430.0	731	530	525	621.0	470.0
AZ	323.0	318.0	1,077	1,204	1,195	725.0	792.0
AR	980.0	1,000.0	823	739	624	1,681.0	1,300.0
CA	995.0	1,025.0	1,359	1,288	1,288	2,817.0	2,750.0
FL 3/	49.5	52.0	701	740	740	72.3	80.2
GA	456.0	570.0	783	559	564	744.0	670.0
KS 3/	0.8	1.5	120	256	256	0.2	0.8
LA	870.0	875.0	717	658	603	1,299.0	1,100.0
MS	1,345.0	1,350.0	761	604	569	2,131.0	1,600.0
MO	328.0	338.0	792	710	525	541.0	370.0
NM	37.0	60.0	616	704	704	47.5	88.0
NC	377.0	385.0	596	524	536	468.0	430.0
OK	335.0	370.0	301	350	350	210.0	270.0
SC	192.0	195.0	565	431	431	226.0	175.0
TN	615.0	640.0	651	488	435	834.0	580.0
TX	3,550.0	5,350.0	441	463	467	3,265.0	5,200.0
VA 3/	21.8	22.8	621	600	600	28.2	28.5
US	10,883.1	12,982.3	693	608	588	15,710.2	15,904.5
Amer-Pima							
AZ	102.0	58.0	649	894	869	138.0	105.0
CA	110.0	90.0	1,282	1,200	1,200	293.7	225.0
MS 4/	0.4		480			0.4	
NM	12.8	11.0	739	655	655	19.7	15.0
TX	35.0	33.0	775	698	684	56.5	47.0
US	260.2	192.0	938	990	980	508.3	392.0
All							
AL	408.0	430.0	731	530	525	621.0	470.0
AZ	425.0	376.0	975	1,156	1,145	863.0	897.0
AR	980.0	1,000.0	823	739	624	1,681.0	1,300.0
CA	1,105.0	1,115.0	1,351	1,281	1,281	3,110.7	2,975.0
FL 3/	49.5	52.0	701	740	740	72.3	80.2
GA	456.0	570.0	783	559	564	744.0	670.0
KS 3/	0.8	1.5	120	256	256	0.2	0.8
LA	870.0	875.0	717	658	603	1,299.0	1,100.0
MS	1,345.4	1,350.0	760	604	569	2,131.4	1,600.0
MO	328.0	338.0	792	710	525	541.0	370.0
NM	49.8	71.0	648	696	696	67.2	103.0
NC	377.0	385.0	596	524	536	468.0	430.0
OK	335.0	370.0	301	350	350	210.0	270.0
SC	192.0	195.0	565	431	431	226.0	175.0
TN	615.0	640.0	651	488	435	834.0	580.0
TX	3,585.0	5,383.0	445	464	468	3,321.5	5,247.0
VA 3/	21.8	22.8	621	600	600	28.2	28.5
US	11,143.3	13,174.3	699	614	594	16,218.5	16,296.5

1/ Production ginned and to be ginned. 2/ 480-lb. net weight bales.
3/ Estimates for current year carried forward from previous forecast.
4/ Estimates discontinued in 1993.

Dry Edible Beans: Area Harvested, Yield, and Production by State and United States, 1991-92 and Forecasted November 1, 1993 1/

State	Area Harvested		Yield		Production		
	1992	1993	1992	1993	1991	1992	1993
	- 1,000 Acres -		--- Pounds ---		------ 1,000 Cwt -----		
CA	110.0	107.0	2,160	2,200	3,235	2,376	2,354
CO	159.0	185.0	1,640	1,530	3,330	2,608	2,831
ID	88.0	123.0	1,800	1,750	2,932	1,584	2,153
KS 2/	19.0	25.0	1,400	1,700	544	266	425
MI	310.0	380.0	1,250	1,600	6,753	3,875	6,080
MN	97.0	85.0	1,460	950	1,980	1,416	808
MT 2/	9.5	12.0	1,900	1,900	158	181	228
NE	153.0	130.0	1,650	1,400	4,009	2,525	1,820
NM 2/	13.0	14.0	1,950	1,800	240	254	252
NY	29.0	35.0	1,050	1,400	483	305	490
ND	390.0	380.0	1,200	800	7,548	4,680	3,040
OR 2/	5.9	7.0	2,050	2,100	147	121	147
TX 2/	32.0	27.0	1,320	1,400	373	422	378
UT 2/	5.7	5.2	700	400	26	40	21
WA	35.0	42.0	1,840	1,950	1,000	644	819
WI 2/	8.8	9.7	1,800	1,500	207	158	146
WY	32.0	25.0	1,850	1,570	800	592	393
US	1,496.9	1,591.9	1,473	1,406	33,765	22,047	22,385

1/ Excludes beans grown for garden seed.
2/ Estimates carried forward from earlier forecast.

Tobacco: Area Harvested, Yield, and Production by State and United States, 1991-92 and Forecasted November 1, 1993

State	Area Harvested		Yield		Production		
	1992	1993	1992	1993	1991	1992	1993
	----- Acres -----		--- Pounds --		---------- 1,000 Pounds ---------		
CT	1,450	1,460	1,600	1,436	2,831	2,320	2,097
FL	7,500	7,500	2,610	2,500	15,312	19,575	18,750
GA	44,000	42,000	2,295	2,250	80,600	100,980	94,500
IN	9,000	8,100	2,100	2,100	18,920	18,900	17,010
KY	234,700	211,100	2,234	2,236	479,794	524,378	472,005
MD	9,700	9,500	1,230	1,350	12,900	11,931	12,825
MA	370	440	1,831	1,443	830	678	635
MO 1/	1,700	3,200	1,940	1,900	6,825	3,298	6,080
NC	270,200	269,500	2,257	2,193	634,655	609,873	591,050
OH	10,400	10,000	2,100	2,050	22,776	21,840	20,500
PA	10,800	10,000	1,947	2,030	20,765	21,030	20,300
SC	52,000	52,000	2,160	2,130	111,180	112,320	110,760
TN	72,200	62,840	2,030	2,004	121,524	146,556	125,912
VA	51,100	50,200	2,181	2,008	116,849	111,459	100,785
WV 1/	2,100	2,000	1,725	1,750	3,420	3,623	3,500
WI	7,500	5,300	1,712	1,628	15,191	12,837	8,630
US	784,720	745,140	2,194	2,154	1,664,372	1,721,598	1,605,339

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

Tobacco: Area Harvested, Yield, and Production by Class, Type, State and United States, 1991-92 and Forecasted November 1, 1993

Class and Type	Area Harvested		Yield		Production	
	1992	1993	1992	1993	1992	1993
	---- Acres -----		-- Pounds ---		- 1,000 Pounds -	
Class 1, Flue-cured						
Type 11, Old and Middle Belts						
NC	98,000	98,000	2,195	2,150	215,110	210,700
VA	37,000	37,000	2,205	2,000	81,585	74,000
US	135,000	135,000	2,198	2,109	296,695	284,700
Type 12, Eastern NC Belt						
NC	129,000	129,000	2,345	2,250	302,505	290,250
Type 13, NC Border & SC Belt						
NC	34,000	34,000	2,175	2,150	73,950	73,100
SC	52,000	52,000	2,160	2,130	112,320	110,760
US	86,000	86,000	2,166	2,138	186,270	183,860
Type 14, GA-FL Belt						
FL	7,500	7,500	2,610	2,500	19,575	18,750
GA	44,000	42,000	2,295	2,250	100,980	94,500
US	51,500	49,500	2,341	2,288	120,555	113,250
Total 11-14	401,500	399,500	2,257	2,183	906,025	872,060
Class 2, Fire-cured						
Type 21, VA Belt						
VA	1,700	1,300	1,510	1,450	2,567	1,885
Type 22, Eastern District						
KY	3,200	3,600	2,430	2,500	7,776	9,000
TN	7,000	7,600	2,280	2,350	15,960	17,860
US	10,200	11,200	2,327	2,398	23,736	26,860
Type 23, Western District						
KY	3,500	3,600	2,620	2,600	9,170	9,360
TN	560	600	2,350	2,400	1,316	1,440
US	4,060	4,200	2,583	2,571	10,486	10,800
Total 21-23	15,960	16,700	2,305	2,368	36,789	39,545
Class 3, Air-Cured						
Class 3A, Light Air-Cured						
Type 31, Burley						
IN	9,000	8,100	2,100	2,100	18,900	17,010
KY	224,000	200,000	2,225	2,225	498,400	445,000
MO 1/	1,700	3,200	1,940	1,900	3,298	6,080
NC	9,200	8,500	1,990	2,000	18,308	17,000
OH	10,400	10,000	2,100	2,050	21,840	20,500
TN	64,000	54,000	2,000	1,950	128,000	105,300
VA	12,300	11,800	2,210	2,100	27,183	24,780
WV 1/	2,100	2,000	1,725	1,750	3,623	3,500
US	332,700	297,600	2,163	2,148	719,552	639,170
Type 32, Southern MD Belt						
MD	9,700	9,500	1,230	1,350	11,931	12,825
PA	3,800	3,500	1,850	1,900	7,030	6,650
US	13,500	13,000	1,405	1,498	18,961	19,475
Total 31-32	346,200	310,600	2,133	2,121	738,513	658,645

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

--continued

Tobacco: Area Harvested, Yield, and Production by Class, Type, State, and United States, 1991-92 and Forecasted November 1, 1993 (continued)

Class and Type	Area Harvested		Yield		Production	
	1992	1993	1992	1993	1992	1993
	---- Acres -----		-- Pounds ---		-- 1,000 Pounds -	
Class 3, Air-Cured						
Class 3B, Dark Air-Cured						
Type 35, One Sucker						
Belt						
KY	2,650	2,600	2,160	2,200	5,724	5,720
TN	640	640	2,000	2,050	1,280	1,312
US	3,290	3,240	2,129	2,170	7,004	7,032
Type 36, Green River						
Belt						
KY	1,350	1,300	2,450	2,250	3,308	2,925
Type 37, VA Sun-cured						
Belt						
VA	100	100	1,240	1,200	124	120
Total 35-37	4,740	4,640	2,202	2,172	10,436	10,077
Class 4, Cigar Filler						
Type 41, PA Seedleaf						
PA	7,000	6,500	2,000	2,100	14,000	13,650
Class 5, Cigar Binder						
Class 5A, CT Valley Binder						
Type 51, CT Valley Broadleaf						
CT	650	650	1,790	1,730	1,164	1,125
MA	170	170	1,880	1,830	320	311
US	820	820	1,809	1,751	1,484	1,436
Class 5B, WI Binder						
Type 54, Southern WI						
WI	4,100	2,900	1,970	1,900	8,077	5,510
Type 55, Northern WI						
WI	3,400	2,400	1,400	1,300	4,760	3,120
Total 54-55	7,500	5,300	1,712	1,628	12,837	8,630
Total 51-55	8,320	6,120	1,721	1,645	14,321	10,066
Class 6, Cigar Wrapper						
Type 61, CT Valley Shade-Grown						
CT	800	810	1,445	1,200	1,156	972
MA	200	270	1,790	1,200	358	324
US	1,000	1,080	1,514	1,200	1,514	1,296
All Cigar Types						
Total 41-61	16,320	13,700	1,828	1,826	29,835	25,012
All Tobacco	784,720	745,140	2,194	2,154	1,721,598	1,605,339

Sugarbeets: Area Harvested, Yield, and Production by State and United States, 1991-92 and Forecasted November 1, 1993 1/

State	Area Harvested 1992	Area Harvested 1993	Yield 1992	Yield 1993	Production 1991	Production 1992	Production 1993
	-- 1,000 Acres --		--- Tons ---		------- 1,000 Tons -------		
CA	150.0	137.0	26.6	27.0	4,029	3,990	3,699
CO	39.9	40.0	23.9	23.6	965	954	944
ID	200.0	204.0	24.5	23.0	5,070	4,900	4,692
MI	175.0	185.0	17.7	17.5	2,573	3,098	3,238
MN	370.0	377.0	18.5	14.3	6,171	6,845	5,391
MT	55.8	54.1	22.8	20.5	1,312	1,272	1,109
NE	77.5	80.5	17.9	19.9	1,578	1,387	1,602
ND	194.7	190.0	17.4	16.3	3,568	3,388	3,097
OH	20.5	18.1	16.0	13.0	296	328	235
OR	18.6	15.6	22.5	26.0	525	419	406
TX	39.9	39.4	21.0	23.0	671	838	906
WY	69.1	65.0	20.8	19.5	1,368	1,437	1,268
Oth Sts 2/	1.8	2.3	40.0	38.3	77	72	88
US	1,412.8	1,408.0	20.5	18.9	28,203	28,928	26,675

1/ Relates to year of intended harvest, except for overwintered spring planted beets in CA.
2/ Includes NM and WA. Estimates carried forward from earlier forecast.

Sugarcane for Sugar and Seed: Area Harvested, Yield, and Production by State and United States, 1991-92 and Forecasted November 1, 1993

State	Area Harvested 1992	Area Harvested 1993	Yield 1992	Yield 1993	Production 1/ 1991	Production 1/ 1992	Production 1/ 1993
	-- 1,000 Acres -		---- Tons ----		------ 1,000 Tons -------		
FL	443.0	450.0	33.2	33.0	15,461	14,708	14,850
HI	67.9	65.0	82.8	85.8	6,061	5,622	5,577
LA	375.0	375.0	23.2	23.0	7,620	8,706	8,625
TX	39.3	44.6	33.8	30.9	1,110	1,328	1,378
US	925.2	934.6	32.8	32.6	30,252	30,364	30,430

1/ Net tons.

Pasture and Range Feed: Condition by State and United States, 1992-93 and Average 1/

State	Average 1982-91	1992	1993	State	Average 1982-91	1992	1993
	Percent				Percent		
AL	65	94	75	NV	77	41	92
AZ	80	88	74	NH	86	86	80
AR	71	83	86	NJ	80	90	90
CA	72	58	72	NM	84	78	70
CO	79	80	78	NY	79	96	92
CT	86	87	60	NC	72	87	68
DE	73	97	71	ND	60	60	87
FL	73	77	80	OH	77	86	81
GA	59	83	47	OK	75	96	95
ID	74	45	96	OR	73	56	90
IL	78	85	94	PA	72	80	80
IN	78	88	89	RI	92	86	35
IA	79	90	87	SC	65	72	55
KS	75	86	83	SD	71	79	87
KY	79	89	87	TN	79	91	78
LA	73	87	84	TX	64	58	66
ME	86	83	60	UT	80	74	97
MD	76	98	95	VT	86	87	90
MA	87	93	60	VA	75	81	76
MI	85	80	85	WA	77	68	73
MN	74	84	85	WV	72	81	78
MS	73	92	80	WI	76	71	77
MO	78	85	97	WY	80	78	99
MT	72	79	102				
NE	74	96	100	US	73	78	82

1/ Good to excellent, 80 and over; poor to fair 65-79; very poor, 50-64; severe drought, 35-49; extreme drought, under 35.

Citrus Fruit: Utilized Production by Crop, State, and United States, 1992-93 and Forecasted 1994 on November 1, 1993 1/

Crop and State	Utilized Production Boxes			Utilized Production Ton Equivalent		
	1991-92	1992-93	1993-94	1991-92	1992-93	1993-94
	1,000 Boxes 2/			1,000 Tons		
Oranges						
Early Mid & Navel 3/ 4/						
AZ	780	700	800	29	26	30
CA	35,100	43,800	38,000	1,317	1,642	1,425
FL	83,400	114,300	108,000	3,753	5,143	4,860
TX	20	450	370	1	20	16
US	119,300	159,250	147,170	5,100	6,831	6,331
Valencia 4/						
AZ	1,600	1,150	1,200	60	43	45
CA	32,300	25,000	27,000	1,211	937	1,013
FL	56,400	72,200	64,000	2,538	3,249	2,880
TX 5/	10	60	120		2	5
US	90,310	98,410	92,320	3,809	4,231	3,943
All 4/						
AZ	2,380	1,850	2,000	89	69	75
CA	67,400	68,800	65,000	2,528	2,579	2,438
FL	139,800	186,500	172,000	6,291	8,392	7,740
TX	30	510	490	1	22	21
US	209,610	257,660	239,490	8,909	11,062	10,274
Temples 4/						
FL	2,350	2,500	2,300	106	113	104
Grapefruit						
White Seedless						
FL 4/	19,100	25,700	23,000	812	1,093	978
Colored Seedless						
FL 4/	22,100	27,700	25,000	940	1,177	1,063
Other						
FL 4/	1,200	1,750	1,000	51	74	43
All						
AZ 4/	2,800	2,150	2,200	89	69	70
CA 4/ 6/						
Desert	3,500	3,500	3,500	112	112	112
Other Areas	6,500	6,000		217	201	
Total	10,000	9,500		329	313	
FL 4/	42,400	55,150	49,000	1,803	2,344	2,084
TX	65	1,875	2,700	3	75	108
US	55,265	68,675		2,224	2,801	
Tangerines 4/						
AZ	1,200	950	1,100	45	35	41
CA	2,440	2,200	2,500	92	83	94
FL	2,600	2,800	3,800	123	133	181
US	6,240	5,950	7,400	260	251	316
Lemons 4/						
AZ	5,100	4,400	4,300	193	167	163
CA	15,100	20,100	20,000	573	763	760
US	20,200	24,500	24,300	766	930	923
Tangelos 4/						
FL	2,600	3,050	3,100	117	137	140
K-Early Citrus 4/						
FL	165	185	200	7	8	9

Citrus Fruit Footnotes

1/ The crop year begins with the bloom of the first year shown and ends with year harvest is completed.

2/ Net lbs. per box: oranges-CA & AZ-75, FL-90, TX-85; grapefruit-CA Desert & AZ-64, CA Other-67, FL-85, TX-80; lemons-76; tangelos, K-Early Citrus & Temples-90; tangerines-CA and AZ-75, FL-95.

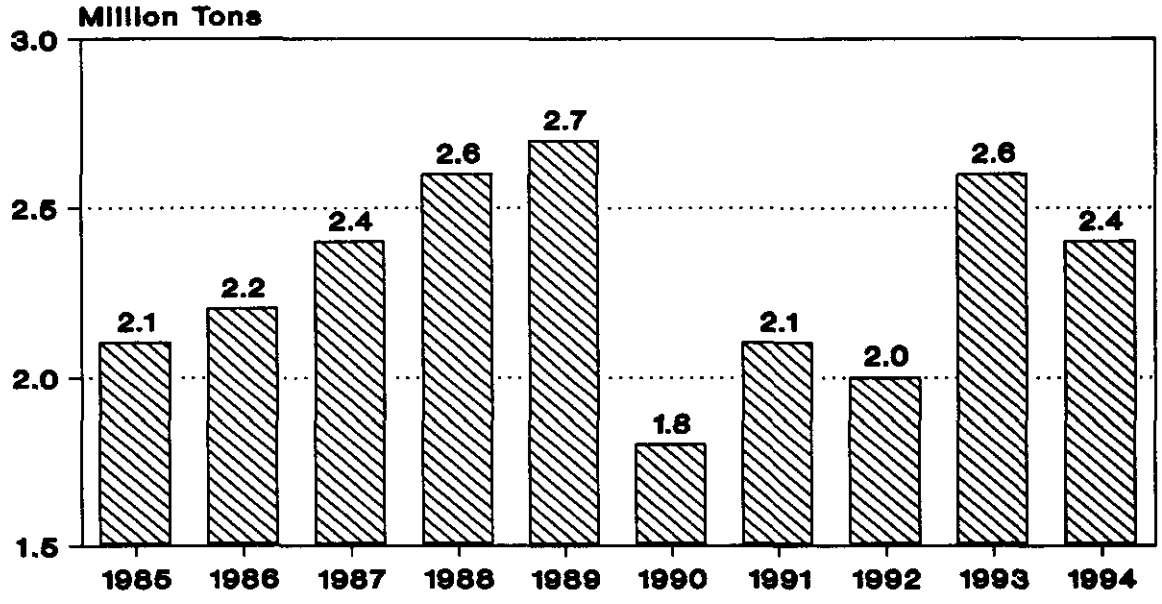
3/ Navel and miscellaneous varieties in CA and AZ. Early and mid-season varieties in FL and TX, including small quantities of tangerines in TX.

4/ Forecast carried forward from previous month.

5/ TX estimated at 425 tons for 1991-92.

6/ The first forecast for CA grapefruit "Other Areas" will be as of April 1, 1994.

U.S Grapefruit Production
1985-1993 and forecasted 1994



Ex. CA "Other Areas"

Hazelnuts: Utilized Production by State and United States, 1991-92 and Forecasted November 1, 1993

State	Utilized Production		
	1991	1992	1993
	Tons (In-shell basis)		
OR	25,300	27,500	37,700
WA 1/	200	200	300
US	25,500	27,700	38,000

1/ Forecast for current year carried forward from earlier forecast.

Papayas: Area and Fresh Production, by Month, Hawaii, 1992-93

Month	Area				Fresh Production	
	Total in Crop		Harvested		1992	1993
	1992	1993	1992	1993		
	Acres				-- 1,000 Pounds --	
Sep	3,625	3,475	2,755	2,265	3,835	5,170
Oct	3,595	3,435	2,640	2,520	5,475	4,975
Nov	3,685		2,655		5,235	
Dec	3,645		2,745		5,075	
Jan		3,605		2,725		5,130
Feb		3,675		2,775		4,760
Cumulative Fresh Production Jan-Oct					45,490	46,130

Corn: Plant Populations, Ear Counts, and Row Spacing

The National Agricultural Statistics Service conducted corn objective yield surveys in 10 States during 1993. Randomly selected plots in corn for grain fields were visited monthly from August through harvest to obtain specific counts and measurements. Data in the following tables were obtained from this survey and are not official estimates of the Agricultural Statistics Board, but are intended to show trends in corn production practices.

Corn for Grain: Plant Population per Acre, Selected States, 1989-93 1/

State	1989	1990	1991	1992	1993
	Number of Plants				
IL	21,900	22,300	23,700	23,100	23,300
IN	21,500	21,900	22,400	23,200	23,200
IA	21,600	22,400	22,800	23,300	23,500
MI	21,100	20,800	21,800	21,700	22,900
MN	24,100	23,100	23,900	24,600	25,100
MO	17,900	18,000	19,900	18,800	19,200
NE	20,700	21,500	22,200	21,900	22,200
OH	21,400	22,500	23,200	23,300	23,300
SD	16,400	16,100	17,500	17,800	17,700
WI	21,000	21,900	23,400	22,600	23,500

1/ Based on stalk counts in plots selected for objective yield samples.

Corn for Grain: Number of Ears per Acre, Selected States, 1989-93 1/

State	1989	1990	1991	1992	1993
	Number of Ears				
IL	21,000	21,900	21,800	23,000	22,600
IN	20,900	21,700	20,300	22,700	22,200
IA	21,000	22,500	21,600	24,000	22,500
MI	21,500	21,200	21,800	25,000	22,400
MN	23,800	24,100	24,000	27,000	25,000
MO	17,400	18,000	18,800	19,400	18,500
NE	20,300	21,500	21,900	22,100	21,200
OH	20,900	22,200	20,800	23,200	21,700
SD	16,900	17,300	18,000	20,600	18,000
WI	20,800	22,000	22,600	23,300	22,900

1/ Based on ear counts in plots selected for objective yield samples.

Corn for Grain: Percentage Distributions by Row Width and Average Row Width for Selected States, 1991-93

State and Year	Number of Samples	Row Width (Inches) 1/							Average Row Width
		30.5 or less	30.6-32.5	32.6-34.5	34.6-36.5	36.6-38.5	38.6-40.5	40.6 & Greater	
	Number	Percent							Inches
IL 1991	235	54.9	15.7	.9	11.5	13.2	3.8	.0	32.2
1992	233	57.9	12.0	1.3	14.2	13.7	.9	.0	32.0
1993	244	50.8	16.0	1.2	13.1	15.2	3.7	.0	32.4
IN 1991	171	60.3	17.5	.6	12.3	6.4	2.9	.0	31.6
1992	163	67.5	14.7	1.2	8.6	4.3	3.1	.6	31.2
1993	166	63.3	19.3	3.0	6.0	8.4	.0	.0	31.2
IA 1991	228	35.1	13.6	1.3	8.8	30.3	9.6	1.3	34.0
1992	242	43.0	16.9	1.7	10.7	18.2	8.3	1.2	33.1
1993	259	47.4	14.7	.8	6.6	22.0	7.0	1.5	33.1
MI 1991	69	55.1	33.3	2.9	5.8	2.9	.0	.0	30.7
1992	86	52.3	25.6	3.5	3.5	12.8	2.3	.0	31.6
1993	79	59.5	21.5	2.5	2.5	11.4	1.3	1.3	31.5
MN 1991	187	56.2	11.8	.5	12.3	13.9	4.8	.5	32.2
1992	188	59.5	12.8	.0	9.0	14.4	3.2	1.1	31.9
1993	158	62.0	12.0	1.9	5.1	12.7	5.7	.6	32.0
MO 1991	109	40.4	22.9	2.8	12.8	16.5	3.7	.9	32.7
1992	123	35.0	28.5	.8	13.8	15.4	6.5	.0	32.9
1993	86	36.0	29.1	2.3	9.3	16.3	5.8	1.2	32.8
NE 1991	213	34.3	16.0	1.4	22.5	19.7	5.6	.5	33.7
1992	216	28.7	16.7	3.2	27.8	17.1	6.0	.5	33.7
1993	206	34.5	17.0	1.9	22.3	18.9	4.4	1.0	33.4
OH 1991	151	66.2	15.9	.7	4.6	8.6	3.3	.7	31.2
1992	142	62.7	13.4	2.1	6.3	8.5	4.2	2.8	31.9
1993	133	66.1	15.8	3.7	2.3	6.0	3.8	2.3	31.6
SD 1991	79	20.2	5.1	.0	16.5	44.3	13.9	.0	35.7
1992	100	30.0	5.0	.0	12.0	40.0	12.0	1.0	35.1
1993	98	21.4	12.3	1.0	6.1	42.9	15.3	1.0	35.4
WI 1991	106	33.0	13.2	1.9	7.6	29.2	13.2	1.9	34.2
1992	123	26.0	16.3	3.3	10.6	26.8	16.2	.8	34.4
1993	112	25.9	17.9	5.4	16.0	22.3	10.7	1.8	34.0

1/ Spacings based on row measurements in sample plots selected for objective yield terminations.

Soybeans: Pod Counts and Row Spacing

The National Agricultural Statistics Service conducted soybean objective yield surveys in 8 States in 1993. Plots were randomly selected from a scientifically drawn sample of soybean fields, which were visited monthly from about August 1 through harvest, to obtain specific counts and measurements. Sample data and the derived percentages from the surveys presented in the following table are not Agricultural Statistics Board official estimates but are intended to show trends in soybean production practices.

Soybeans: Pods with Beans per 18 Square Feet
Selected States, 1989-93 1/

State	1989	1990	1991	1992	1993
	Number of Pods				
AR	1,208	1,588	1,337	1,713	1,399
IL	1,385	1,460	1,450	1,503	1,712
IN	1,301	1,396	1,508	1,543	1,703
IA	1,316	1,330	1,451	1,464	1,340
MN	1,373	1,454	1,478	1,367	1,106
MO	1,298	1,318	1,416	1,607	1,727
NE	1,279	1,320	1,423	1,504	1,414
OH	1,115	1,298	1,313	1,394	1,361

1/ Based on pod counts in plots selected for objective yield samples.

Measured Row Spacing of Soybeans: Percentage Distribution and Average Width for Selected States, 1991-93 1/

State and Year	Number of Samples	Row Width Groups (Inches)					Average Row Width 2/
		10.0 & Less 2/	10.1-18.5	18.6-28.5	28.6-34.5	34.6 & Greater	
	Number	Percent of Plots					Inches
AR 1991	114	26.0	6.9	22.4	25.2	19.5	25.1
1992	134	19.1	7.5	25.5	28.0	19.9	27.3
1993	125	24.2	12.5	23.8	25.8	13.7	23.8
IL 1991	196	23.6	9.2	3.3	48.7	15.2	24.6
1992	176	33.5	7.4	6.3	41.1	11.7	22.0
1993	179	38.0	6.7	3.9	40.8	10.6	21.2
IN 1991	142	32.4	12.8	4.6	44.5	5.7	22.0
1992	151	35.7	15.3	3.0	38.7	7.3	20.4
1993	149	56.0	13.4	4.0	23.2	3.4	15.6
IA 1991	210	7.9	1.9	5.0	58.8	26.4	30.5
1992	208	18.1	3.9	5.8	52.7	19.5	28.0
1993	208	23.2	6.3	5.3	50.0	15.2	26.3
MN 1991	109	23.4	12.8	6.0	50.9	6.9	23.5
1992	103	24.4	15.6	5.4	42.4	12.2	22.5
1993	103	29.6	14.6	1.9	49.0	4.9	21.3
MO 1991	133	32.6	12.4	5.6	35.2	14.2	22.2
1992	140	38.0	14.5	3.2	38.6	5.7	19.9
1993	114	41.9	7.9	4.8	23.8	21.6	22.1
NE 1991	81	11.1	4.9	2.5	39.5	42.0	31.3
1992	81	13.7	2.5	3.1	49.6	31.1	29.4
1993	71	18.3	6.3	.7	44.4	30.3	28.5
OH 1991	125	48.0	21.2	2.4	23.6	4.8	16.7
1992	123	54.6	18.4	4.9	21.3	.8	14.6
1993	127	63.8	16.9	1.6	16.1	1.6	13.3

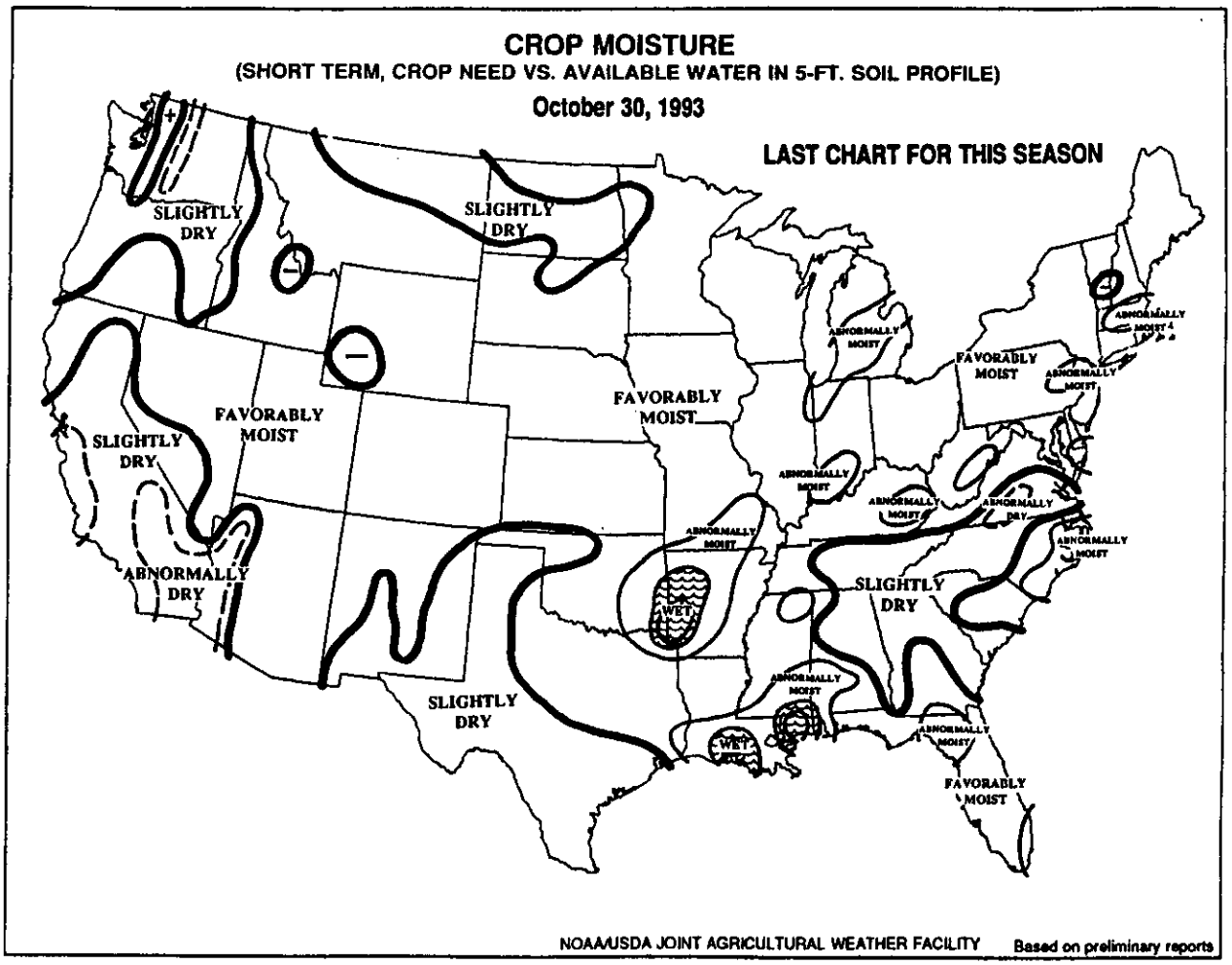
1/ Based on row measurements in sample plots selected for objective yield samples.

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

Fall Potatoes: Major Varieties as Percent of Planted Acres, Selected States and United States, 1993 Crop 1/

State and Varieties	Percent of Pl Acres	State and Varieties	Percent of Pl Acres	State and Varieties	Percent of Pl Acres
CO		MN		PA	
Centennial R	38.3	R Burbank	31.0	Norwis	22.3
R Norkotah	23.5	Norchip	22.8	Atlantic	21.5
R Nugget	13.7	Norland	12.7	Snowden	10.7
Sangre	7.5	Goldrush	6.0	Katahdin	10.1
R Burbank	5.7	Kennebec	3.7	Superior	6.9
Century R	3.2	Pontiac	3.6	Norchip	6.7
Frontier R	2.3	Frito-Lay	3.2	Somerset	6.1
		Monona	2.8	Kanona	4.4
ID		La Soda	2.3	Monona	3.8
R Burbank	88.3	Kanona	1.4	Kennebec	3.0
Shepody	7.0			Norland	2.0
R Norkotah	1.6	NY			
Ranger R	1.0	Norwis	33.9	WA	
		Monona	12.1	R Burbank	69.6
ME		Superior	9.9	R Norkotah	7.8
Superior	24.1	Atlantic	7.4	Shepody	7.8
R Burbank	17.6	Norchip	7.3	Ranger R	4.8
Shepody	10.7	Sunrise	5.8	Norchip	2.2
Atlantic	9.1	Chieftain	4.3		
Norwis	7.7	Allegany	4.2	WI	
Ontario	6.7	Snowden	3.1	R Burbank	32.2
Frito-Lay	6.8	Kanona	2.2	R Norkotah	24.3
Katahdin	4.0	Norland	1.7	Snowden	10.8
Snowden	3.0			Norland	8.5
Allegany	2.4	ND		Superior	7.3
Goldrush	1.3	Norchip	44.4	Atlantic	6.8
Monona	1.2	R Burbank	15.4	Frito-Lay	1.2
R Norkotah	1.0	Norland	10.2		
		Frito-Lay	5.8	US	
MI		Kennebec	5.3	R Burbank	51.1
Snowden	34.7	Shepody	4.2	Norchip	7.8
R Burbank	16.8	Snowden	3.9	Shepody	5.6
Atlantic	9.6	La Soda	3.7	R Norkotah	5.2
Onoway	7.3	Monona	2.0	Snowden	3.0
R Norkotah	6.6			Superior	2.8
Superior	6.2	OR		Norland	2.8
Goldrush	4.0	R Burbank	63.7	Centennial R	2.5
Frito-Lay	2.8	Shepody	18.1	Atlantic	2.0
Yukon Gold	1.7	Frontier R	5.4	Norwis	1.9
Sebago	1.5	R Norkotah	5.2	Frito-Lay	1.6
Katahdin	1.4	Snowden	1.8	Kennebec	1.0

1/ NASS conducts potato objective yield surveys in 11 major fall States, accounting for about 94 percent of U.S. fall production. Producing areas of each State are represented in the sample in proportion to planted acres. The table above is derived from reported data intended to provide current information on varieties but is not designated as an official estimate.

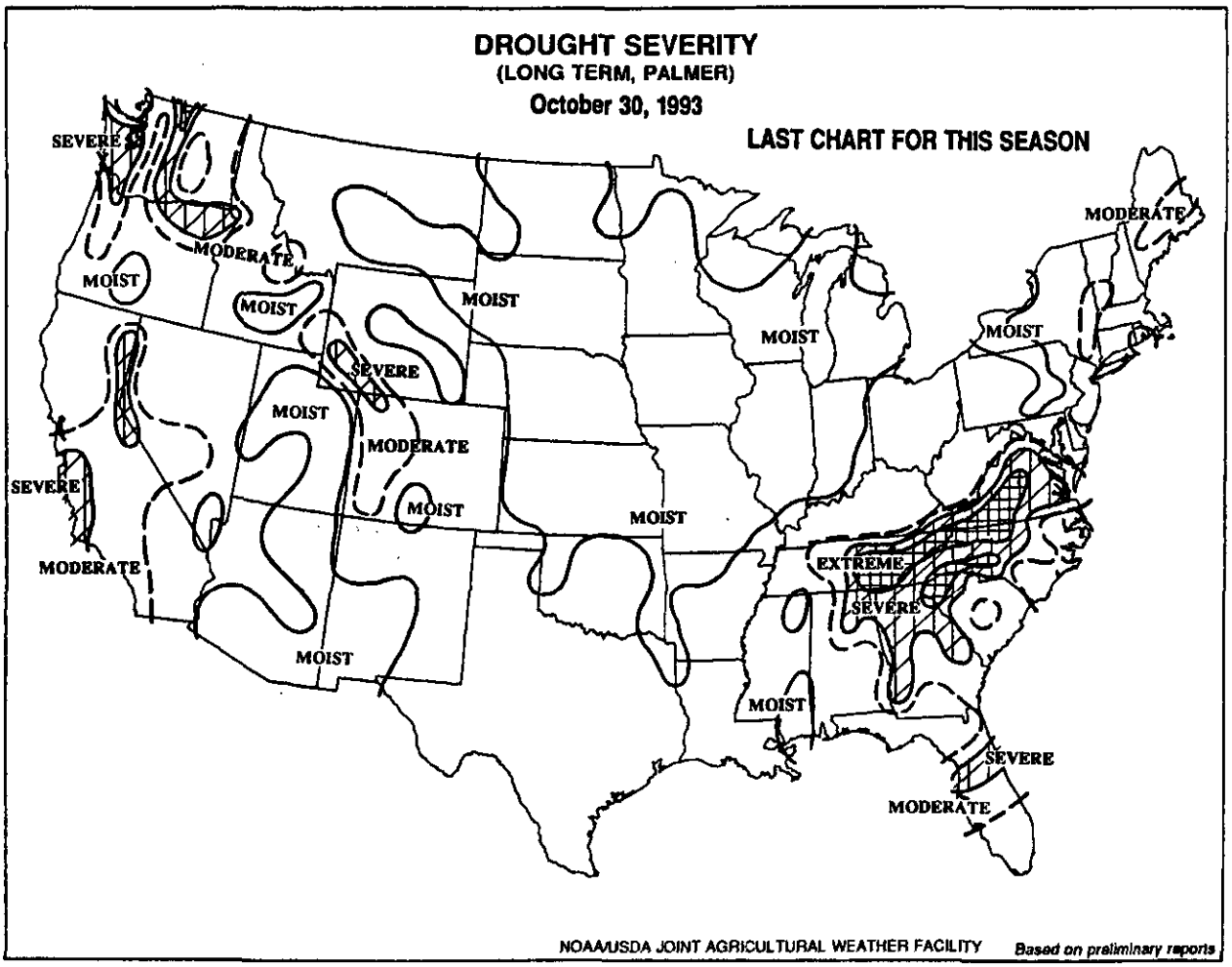


Crop Moisture

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 evaportranspiration.

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 Crop Progress: The driest weather since October 1992 covered the upper and middle Mississippi Valley, while the axis of heaviest rain shifted southeastward across the Gulf Coast States. Northeastern Texas was inundated with as much as a foot of rain in 4 days between October 17 and 20, while the Florida Peninsula's 6- to 12-inch totals were amassed incrementally.

Amplified, meridional air flow kept the West warm and dry, but left the Plains and Midwest vulnerable to increasingly strong cold frontal passages. Temperatures averaged as much as 4 degrees F above normal in the Pacific Northwest, but ranged up to 6 degrees F below normal in Oklahoma.

The series of fronts systematically closed out the growing season from northwest to southeast across the primary Corn and Soybean Belt. The first cold front of the month delivered a killing freeze to eastern North Dakota, Minnesota, and northern Iowa on October 2, only 2 days after a freeze in Wisconsin. The remainder of the Corn Belt garnered another week of mild, generally dry weather before a strong storm brought heavy rain on October 8 and 9. Sub-freezing temperatures overspread all but the southern Corn Belt on the morning of October 10. Temperatures also dropped below 32 degrees F as far south as southeastern Colorado, central Kansas, and southern Missouri.

In the central Plains, the progression of successively cooler frontal passages allowed the newly-planted winter wheat to emerge and adapt under favorable conditions. However, typical transitional weather abruptly yielded to winter at month's end, as a record-setting blast dropped temperatures to the freezing mark as far south as coastal Texas, southern Louisiana, and northern Florida.

In contrast, areas west of the Rockies spent much of the month under a ridge of high pressure, keeping temperatures above normal and precipitation scarce. Southern California paid a harsh price for the warm, dry weather which, in combination with a recent 5-year drought (1986-87 to 1990-91) and last year's wet winter, left the area prone to wildfires when gusty, easterly Santa Ana winds swept out of the mountains on October 27. Within 5 days, more than 250 square miles of land and more than 700 buildings had been consumed by flames.

General Crop Comments: Cold weather in early October ended the growing season across the upper Midwest. By mid-month, killing frost had occurred over the central Plains and the middle Mississippi Valley. An Arctic air mass at the end of the month brought freezing temperatures as far south as Southern Texas and the Mississippi Delta. The frost in early October damaged late-planted corn in the upper Midwest. Harvest across the Corn Belt advanced slowly the first part of the month as producers waited for the corn to dry down and field conditions to improve. Cooler and drier conditions by the end of the month allowed the corn harvest to make good gains across the Corn Belt. Harvest progress was ahead of last year but behind average. In the South and Southeast, the summer's hot and dry conditions allowed producers to harvest the corn crop ahead of last year and average.

The soybean harvest had just started in early October. Producers across the country took advantage of favorable harvesting conditions whenever possible and removed almost three-quarters of the Nation's crop. Progress of the cotton

harvest in early October was ahead of normal due to a fast maturing crop. By mid-month, the harvests in Arizona and Texas experienced some rain delays, but conditions in other areas allowed the harvest to advance. Harvest progress at the end of October remained ahead of last year and average. Cold temperatures and rain slowed progress in Texas and the harvest in the Mississippi Delta was behind average.

In early October, progress of the sorghum harvest was near last year's pace but behind average. Wet conditions and a slow maturing crop caused progress to fall even further behind normal by the end of October. Progress of the rice harvest was behind last year and average at the beginning of October. The harvest was finished by the end of October, with no unusual weather delays encountered. During the first half of October, harvest of the late planted and slow maturing spring wheat crop was completed.

Planting of the 1994 winter wheat crop was active and on time at the beginning of October. Rain delayed some plantings in the northern Great Plains during the first half of the month. Excessive dryness caused some delays in the Southeast during the middle of the month. By the end of October, producers had made up for the delays and planting progress was equal to last year and average. Winter wheat emergence was slightly ahead of last year and equal to average. At the end of October, nearly three-quarters of the crop was rated good to excellent.

Winter Wheat Planting: Seeding of the 1994 crop equaled average progress early in October; excessive moisture held Idaho and Montana's progress several days behind average. At mid-month, seeding progress slipped a point behind average. Cool, dry weather allowed for rapid planting from Illinois through Ohio. Extreme dryness delayed seeding in the Southeast. At month's end, seeding had reached 90 percent in the major States compared to 91 percent average. Emergence equaled average at 77 percent. Seeding trailed average in the mid and lower Mississippi Valley, Texas, Idaho, and Montana. Over 70 percent of the emerged wheat was rated in good to excellent condition.

Corn for Grain: Acreage to be harvested for grain is estimated at 63.1 million acres, virtually the same as last month. Acreage to be harvested for grain is down 15,000 acres in Virginia, the only State with a change from October.

Objective yield data continues to indicate an ear count per acre for the ten objective yield States (Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Nebraska, Ohio, South Dakota, and Wisconsin) second only to last year's record high count. Illinois and Indiana harvested ear weights were slightly below average but in Iowa, Minnesota, and Nebraska harvested ear weights were well below normal and at or below the 1983 and 1988 drought years.

The late planted crop was hindered by excessive rains and cool temperatures during most of the growing season. Poor weather conditions during September and October as compared with 1992 also reduced prospects. Early frosts in many areas also reduced actual yields.

Sorghum for Grain: The final 1993 production forecast is 620 million bushels, down 3 percent from October 1 and 30 percent lower than the 1992 crop. U.S. yields are forecast at 63.6 bushels per acre, 2.0 bushels less than a month ago. Area for grain is unchanged from last month at 9.75 million acres.

Harvest of the 1993 crop is ahead of last year but still trails the 5-year average. As of October 31, progress had reached 72 percent in the major States, 9 points behind average progress. Early freezes on a late crop have Nebraska and South Dakota growers expecting much lower yields than a month ago. Test weights have been light in Nebraska.

Rice: U.S. rice production is forecast at 162 million cwt, 2 percent below the October 1 forecast and 10 percent below the 1992 total. If realized, this production would still be the third highest on record. National yield is forecast at 5,511 pounds per acre, down 110 pounds from October and down 211 pounds from last year. California's rice yield increased from last month with the harvest nearly complete by November 1. Almost ideal harvest conditions existed in California, with only a minor interruption from rain. In Louisiana and Texas, the first crop rice harvest was complete by the end of October and the management and harvesting of second crop rice continued.

Fall Potatoes: Production of fall potatoes for 1993 is forecast at 372 million cwt, down 2 percent from last year and slightly larger than 1991. *This level ranks as the second largest fall crop produced. The* 1.13 million acres for harvest is 1 percent below 1992 and 4 percent below two years ago. Yields averaged 330 cwt per acre, down 5 cwt from a year earlier but 14 cwt above two years ago. Colorado and Washington recorded new highs in acreage and production. Yields were also record highs in Washington and Michigan.

Five Eastern States produced 34.1 million cwt of fall potatoes in 1993, down 11 percent from last year but 16 percent above 1991. Area for harvest rose 1 percent to 132,000 acres. The average yield of 258 cwt per acre is off 33 cwt. The Maine crop fell 13 percent from a year ago, New York dropped 4 percent, and Pennsylvania decreased 7 percent.

Eight Central States produced 72.5 million cwt this year, down 16 percent from the last two years. Wet weather and flooding dropped harvested acreage by 12 percent from last year, leaving an estimated 297,900 acres for harvest. The average yield of 243 cwt per acre is down 13 cwt from last year. Summer rains and flooding were disastrous to potatoes in North Dakota and Minnesota. About 50,000 acres were abandoned and yields dropped sharply from Wisconsin to South Dakota. Michigan and Indiana were the only States in the region to produce higher yields than last year. Nebraska's production was up with few problems encountered at harvest.

Ten Western States produced an estimated 266 million cwt in 1993, up 4 percent from the last two years. Acreage for harvest, at 697,000 acres, is up 5 percent, but the average yield of 381 cwt per acre is down 3 cwt from a year ago. Idaho's production of 121 million cwt was down 4 percent from last year and 1 percent below two years ago. Cool spring and summer weather kept development behind schedule the entire season. Some areas were hit by an early fall frost which limited yields significantly. A longer growing season in Washington allowed farmers to produce their largest crop ever, with record high acreage and yields. Harvest is about 90 percent complete, a little ahead of last year. Oregon yields equalled the record high crop of 1987. Malheur County and North Central areas had good crops but yields in the Klamath Basin were down slightly. Colorado fall potato production was record high, 13 percent above last year. Montana, Wyoming, and New Mexico had better crops than last year, by 10, 6, and 7 percent, respectively. Acreage in California was down leading to a 14 percent smaller potato crop than last year.

Soybeans: Growers plan to harvest 56.0 million acres, down 10,000 acres from the October estimate. Georgia reduced their harvested acres due to the drought conditions that have existed for most of the growing season.

For the November forecast period, Illinois, Indiana, and Missouri had the largest number of pods per 18 square feet counted in the last five years. Pods per 18 square feet in Iowa were the second lowest and in Minnesota the lowest in the last five years. Overall, the pod count is the second highest. However, pod weight is the lowest. Pod weight in Illinois and Nebraska is the second lowest of the last five years. Indiana, Iowa, Minnesota, Missouri, and Ohio have the lowest pod weights recorded in the same period.

Harvest, at 80 percent complete, is behind last year and the average by 3 points. Ohio is ahead of their average and Indiana is equal to their average. Illinois, Iowa, Minnesota, Missouri, and Nebraska all are behind their average harvest pace.

Peanuts: Production is forecast at 3.25 billion pounds, down fractionally from the October 1 forecast and 24 percent below the 1992 crop. Late maturity in the Southwest and disappointing yields in the Virginia-Carolina area reduced prospects. Harvested area, at 1.65 million acres, dropped 1,000 acres from October 1 and is 1 percent below the 1992 level. Yields are expected to average 1,973 pounds per acre, 2 pounds below last month and 589 pounds below last year.

Production in the Southeastern States (Alabama, Florida, Georgia, and South Carolina) is expected to total 1.92 billion pounds, up 1 percent from October 1 but 27 percent below the 1992 crop. Yields for the 4-State area averaged 1,944 pounds per acre, 697 pounds below last year's level. Slightly better yields were realized in Alabama as harvest progressed. In Georgia, mid-October rains slowed harvest but allowed harvest to remain ahead of normal through much of the month. Harvest was over 90 percent complete by the end of October in Alabama, Florida, and Georgia. The South Carolina harvest reached 74 percent completed by November 1.

Virginia-North Carolina production is forecast at 410 million pounds, down 5 percent from last month and 38 percent below last year. Yields of 1,688 pounds are 1,008 pounds below last year's average. Yields have been lower than anticipated in some cases. Harvest in Virginia was 80 percent complete by the end of October, 11 points behind normal. The North Carolina harvest, at 68 percent complete, was about 1 week behind normal for the date.

The Southwest peanut crop (New Mexico, Oklahoma, and Texas) is forecast at 919 million pounds, down 1 percent from last month and 6 percent below last year. Yields are expected to average 2,209 pounds per acre, down from last year's average of 2,298. October weather did not favor late-season development or a timely harvest. The New Mexico harvest was near normal at 75 percent complete. Harvest in Oklahoma was only 40 percent complete, about 10 days behind normal by the end of October. Rainfall during the latter half of October slowed harvesting in Texas.

Cotton: Harvested Upland acreage in Texas was reduced 150,000 acres to 5.35 million acres as a result of drought earlier in the season. Upland acreage now totals 13.0 million acres, up 19 percent from last year. American-Pima harvested acreage, at 192,000 acres, is 26 percent below 1992.

In Texas, mid-October rains delayed harvest and freezing temperatures late in the month stopped crop development. Fifty-seven percent of the acreage was in good to excellent condition, and 32 percent was in fair condition at that time.

Harvest progress around November 1, at 54 percent, was 21 percent ahead of the 5-year average pace. Objective yield counts indicate that Texas has the second highest large boll count, but the lowest boll weight since 1983.

The Delta States (Arkansas, Louisiana, Mississippi, Missouri, and Tennessee) rated their cotton mostly in fair to good condition, but 30 percent of Mississippi's crop and 35 percent of the Tennessee crop was rated in poor condition in mid-October. Tennessee producers harvested 80 percent of the acreage, 8 points ahead of normal, while Arkansas, Louisiana, and Mississippi were slightly behind the normal harvest pace. Missouri's bolls didn't open to the extent expected. Continued adverse weather caused conditions to deteriorate during the month. Twenty percent of Missouri's crop was in poor condition in mid-October. Objective yield surveys show large bolls are third highest in Arkansas since 1983, but are next to the lowest count in Louisiana and Mississippi during that same period. Arkansas plant population ranks third highest since 1983 and boll weights during the past 10 years are the second lowest.

Eighty-five percent of Arizona's crop was in good to excellent condition in mid-October and in early November, harvest progress was almost 20 percent ahead of normal. November 1 cotton objective yield counts show Arizona's plant population at its lowest level and the second lowest large boll count since 1983. Boll weights are also second lowest during this same period. All of California's crop was in good to excellent condition. Harvest was three-fourths complete, only 2 points behind the average. California recorded the third highest boll count, but the sixth lowest weight during the previous 10 years.

In the Southeastern States (Alabama, Georgia, North Carolina, and South Carolina), the crop was mostly in fair condition in mid-October. Sixty percent of South Carolina's acreage was in very poor to poor condition. Although Alabama's harvest progress was 5 points less than the 5-year average, other States' exceeded the average harvest pace.

American-Pima production is forecast at 392,000 bales, down 23 percent from 1992's output and down 4,000 bales from the October 1 forecast. Yield is indicated at 980 pounds per harvested acre, up 42 pounds from last year. Arizona is the only State showing a higher yield than last year, which was adversely affected by weather and whitefly. All States show decreased production from 1992. Texas' harvest was complete in the Winter Garden area and continued in the Trans-Pecos.

All cotton ginnings totaled 8,029,000 running bales prior to November 1, compared with 7,583,650 running bales ginned to the same date last year and 8,350,850 running bales in 1991.

Dry Edible Beans: The 1993 crop of dry beans is forecast at 22.4 million cwt, 3 percent below the October 1 forecast but 2 percent above last year. Area for harvest, estimated at 1.59 million acres, continued to diminish as 30,000 acres were lost during October in Nebraska and Minnesota. Acreage is now up 6 percent from a year earlier on a crop that saw planted acres increase 13 percent. Yields fell to 1,406 pounds per acre, down 67 pounds from last year.

Harvest is virtually complete in most States, although as much as two weeks late. A hard September freeze hurt Colorado, Nebraska, and Wyoming. Colorado growers completed harvest by October 25th as cool weather and hail damage hurt yields. Nebraska's production dropped 40 percent from the forecast in August. Harvest is complete in Nebraska but production is down more than a fourth from last year. In Wyoming, late season hail and an early killing frost transformed their bean crop into a near disaster. Wet, cool weather also cut production in Minnesota and North Dakota. North Dakota was wet the entire season resulting in a small crop and late harvest. New York beans were 90 percent harvested by October 25 with cutting slowed by rainfall. Michigan's harvest went well with an excellent quality crop. The Idaho dry bean crop is larger than last year with increased acreage but poorer yields. Harvest in California made excellent progress during October under ideal weather and is winding down.

Tobacco: U.S. all tobacco production for 1993 is forecast at 1.61 billion pounds, 2 percent above the October 1 forecast but 7 percent below a year ago. Area expected to be harvested totals 745,140 acres, 5 percent below a year ago.

Flue-cured production is expected to total 872 million pounds, 4 percent above the October 1 forecast but 4 percent below 1992's production. Auctions were complete by the end of October.

Burley production, at 639 million pounds, is 1 percent above the October 1 forecast but 11 percent below 1992. Leaf stripping has gotten off to a good start in Kentucky and Tennessee.

Sugarbeets: The November 1 production forecast of 26.7 million tons is 4 percent below the October 1 forecast and 8 below last year's output. Yields are expected to average 18.9 tons per acre, down 1.6 tons from last year.

Production in the Red River Valley area of Minnesota and North Dakota is expected to be 17 percent below a year ago. Minnesota yields averaged significantly less than what was forecasted for October 1. Excessive moisture during the summer caused lower yields.

Harvest was nearly complete over most areas.

Sugarcane: The November 1 production forecast, at 30.4 million tons, was virtually unchanged from both October 1 and a year ago. Area for harvest, at 934,600 acres, is unchanged from October 1 but 1 percent above a year ago.

Harvest in all producing areas got off to a good start with some delays reported. All mills in Florida were reported as open by November 1.

Pasture and Range Feed Condition: The pasture and range feed condition on November 1 for the 48 contiguous States was 82 percent, up 4 points from November 1, 1992, and 9 points above the 1982-91

average for the date. Conditions were above last year in 21 States, below last year in 25 States, and unchanged in 2 States.

Rhode Island and Georgia reported conditions in the severe drought range. Connecticut, Maine, Massachusetts, and South Carolina reported conditions in the very poor range. Pasture and range feed conditions were reported good to excellent in 29 States.

Florida Citrus: Citrus groves, trees, and fruit remained in good condition. Moisture was adequate in all areas as rainfall during October was generally above normal. New growth slowed as the hours of daylight decreased. Fruit coloring increased for most early types of fruit. Harvest during October gained momentum on early types of citrus. Movement of early oranges, primarily Hamlins and Navels, increased during the month as many crops passed the necessary maturity tests for fresh shipments. Harvest of white and colored grapefruit from the lower East Coast for both domestic and export use was active during October. Early tangerine and K-Early Citrus harvest started the first of October and harvested volumes increased each week. Caretakers actively cut cover crops, sprayed, and fertilized during October.

Texas Grapefruit: The forecast of the 1993-94 Texas grapefruit crop remains unchanged at 2.70 million boxes (108,000 tons), up 44 percent from last season. Fruit appearance and sizes are good.

Texas Citrus: Harvest progressed in the Rio Grande Valley during October. Fruit size and appearance are good. Insect and disease pressures were light. Cool temperatures near the end of the month caused no major problems.

Hazelnuts: The 1993 record high hazelnut forecast in Oregon and Washington has been reduced to 38,000 tons, down 3 percent from last month but still 37 percent larger than the previous record high set last year. The crop is expected to total 37,700 tons in Oregon and 300 tons in Washington.

Harvest was 90 percent complete by November 1. Weather during harvest was warm and dry. The crop was delivered to handlers in clean condition with few leaves and husks. Nut quality is good.

Papayas: Hawaii fresh papaya production is estimated at 4.98 million pounds for October, 4 percent lower than September and 9 percent lower than October 1992. Year-to-date fresh sales were 1 percent more than the same ten-month period a year ago.

October weather conditions were variable. Light showers and sunshine dominated the month, while heavy rains were common the last week. Adequate soil moisture was available in papaya orchards. Papaya ringspot virus concerns farmers in previously unaffected areas of the Puna district of the island of Hawaii. This area of the Big Island produces greater than 90 percent of papayas grown. The virus has appeared sporadically in previously unaffected fields and farmers were advised to destroy infected plants.

Area devoted to papaya production is estimated at 3,435 acres in October, 1 percent lower than September and 4 percent lower than a October 1992. Harvested area, totaling 2,520 acres, was 11 percent higher than September but 5 percent lower than last October.

California Fruit and Nuts: October weather conditions included many instances of scattered rain across the State. Table grape harvest was active along with rolling and binning of raisins. Both harvests decreased as the month drew to a close. Harvest of walnuts, almonds, and pistachios continued. By month's end, almond harvest was virtually complete. Fuji and Granny Smith apples and Asian pears were picked and packed. Date, pomegranate, persimmon, and olive harvest continued. Kiwifruit harvest began in mid-October. Valencia orange harvest was virtually complete by month's end, while harvest of Navel oranges, tangerines, and grapefruit began to gather momentum. Fall pruning and orchard floor work was active.

Reliability of November 1 Crop Production Forecasts

Survey Procedures: Objective yield and farm operator surveys were conducted between October 22 and November 2 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 at least 80 percent of the U.S. production. Randomly selected fields and plots within fields are surveyed each month. 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 measure-ments that provide information to forecast the number of pods, ears, 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 re-visited 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 20,000 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 months 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 it will be followed by an end-of-season estimate. 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 1973-1992 20-year 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.

For example, the "Root Mean Square Error" for the November 1 corn for grain production forecast is 2.4 percent. This means that chances are 2 out of 3 that the current production forecast of 6.50 billion bushels will not be above or below the final estimate by more than 2.4 percent or approximately

156 million bushels. Chances are 9 out of 10 **(90 percent confidence level)** that the difference will not exceed 4.1 percent or approximately 267 million bushels.

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 88 million bushels, ranging from 1 million to 258 million bushels. The November 1 forecast has been below the final estimate 6 times and above 4 times. 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 and Unit	Root Mean Square Error: 90% Confidence Level: Percent	Root Mean Square Error: 90% Confidence Level: Quant	10-Year Record of Differences Between Forecast and Final Estimate: Quantity: Avg	Min.	Max.	No. of Years: Below Final	Above Final
		Mil	----- Mil -----				
Feed Grains 1/ Mt	1.9	3.4	7	3	0	7	7	3
Corn for Grain Bu	2.4	4.1	267	88	1	258	6	4
Sorghum for Grain Bu	3.1	5.3	33	19	6	53	7	3
Rice Cwt	2.7	4.7	8	3	0	11	6	4
Soybeans for Beans Bu	2.9	5.0	92	38	13	99	5	5
Cotton Bales 2/	3.6	6.3	1,027	386	14	824	6	4
Dry Edible Beans Cwt	3.5	6.0	1	.4	0	1.0	6	4

1/ Corn for grain, sorghum for grain, oats, and barley.
2/ Quantity is in thousands of bales.

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Report Features

The next **"Crop Production"** report will be released at 3 p.m. ET on December 9, 1993.

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