



United States  
Department of  
Agriculture

National  
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Service



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# Crop Production 2003 Summary

## January 2004

# USDA





**Corn** for grain production is estimated at 10.1 billion bushels, down 2 percent from the November forecast but up 12 percent from the 9.01 billion bushels produced in 2002. The average U.S. grain yield is estimated at 142.2 bushels per acre, 1.0 bushel below the November forecast but up 12.2 bushels from 2002. Both production and yield estimates are the largest on record. The previous record for both was set in 1994 when production was estimated at slightly below the 10.1 billion bushels being estimated for 2003 and yield was 138.6 bushels per acre.

**Sorghum** for grain production in 2003 is estimated at 411 million bushels, up 3 percent from the November forecast and 11 percent from 2002. Area harvested for grain is estimated at 7.80 million acres, up 7 percent from 2002. Average grain yield, at 52.7 bushels per acre, is 2.0 bushels above the 2002 average yield.

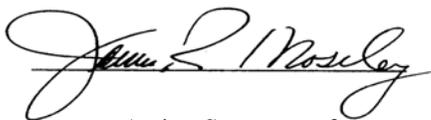
**Rice** production in 2003 totaled 199 million cwt, up fractionally from the November 1 forecast but down 6 percent from 2002. Harvested acres, at 3.00 million, are up 1 percent from November but down 7 percent from 2002. The average yield per acre for all U.S. rice is estimated at 6,645 pounds per acre, 11 pounds below the November 1 forecast. This all rice yield is the highest on record. The previous record of 6,578 pounds per acre was set last year.

**Soybean** production in 2003 totaled 2.42 billion bushels, down 1 percent from the November forecast and 12 percent below the 2002 level. This is the lowest production level since 1996. The average yield per acre is estimated at 33.4 bushels, 0.4 bushel below the November forecast and 4.6 bushels below the 2002 final yield. This is the lowest yield since 1993.

**All cotton** production is estimated at 18.2 million bales, up fractionally from last month and 6 percent more than last year's production. Yield is expected to average a record high 725 pounds per acre, up 60 pounds per acre from a year ago. Harvested area, at 12.1 million acres, is down slightly from December and 3 percent below 2002.

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This report was approved on January 12, 2004.



Acting Secretary of  
Agriculture  
James R. Moseley



Agricultural Statistics Board  
Chairperson  
Rich Allen

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**Principal Crops: Area Planted and Harvested by State  
and United States, 2001-2003<sup>1</sup>**

State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>					
AL	2,236	2,113	2,049	2,116	1,946	1,931
AZ	772	726	716	763	717	711
AR	8,396	8,271	7,996	8,188	8,015	7,771
CA	4,578	4,624	4,653	4,111	4,083	4,060
CO	6,362	5,989	6,297	5,800	4,491	5,557
CT	97	93	92	95	90	90
DE	487	476	444	476	464	432
FL	1,073	1,099	1,064	1,053	1,064	1,033
GA	3,861	3,892	3,807	3,400	3,332	3,330
HI	21	23	22	21	23	22
ID	4,329	4,557	4,443	4,080	4,366	4,238
IL	23,431	23,477	23,342	23,234	23,272	23,165
IN	12,442	12,177	12,193	12,383	12,101	11,993
IA	24,615	24,660	24,841	24,348	24,421	24,629
KS	23,967	23,184	23,237	21,863	20,245	21,843
KY	5,476	5,503	5,504	5,259	5,255	5,332
LA	3,723	3,795	3,455	3,641	3,591	3,386
ME	280	283	281	274	278	276
MD	1,496	1,472	1,332	1,467	1,427	1,295
MA	124	119	114	121	115	111
MI	6,682	6,626	6,610	6,448	6,505	6,483
MN	19,379	20,286	20,031	18,954	19,619	19,679
MS	4,555	4,495	4,310	4,464	4,351	4,243
MO	13,494	13,843	13,940	13,237	13,568	13,742
MT	9,216	9,895	9,100	7,601	8,521	8,494
NE	19,323	19,145	19,156	18,766	17,911	18,560
NV	524	514	469	509	504	462
NH	72	71	70	71	70	69
NJ	342	350	328	334	338	319
NM	1,297	1,299	1,166	1,010	857	721
NY	3,167	3,204	3,301	3,108	3,144	3,234
NC	4,947	4,999	4,751	4,577	4,584	4,439
ND	20,457	22,403	21,964	19,532	20,089	21,237
OH	10,587	10,388	10,109	10,441	10,237	9,947
OK	9,970	10,425	10,777	7,498	7,484	8,457
OR	2,212	2,326	2,471	2,113	2,173	2,383
PA	4,038	4,159	3,978	3,896	4,022	3,850
RI	11	10	11	11	10	11
SC	1,671	1,717	1,556	1,586	1,490	1,469
SD	17,671	17,207	17,487	16,302	14,632	16,685
TN	5,075	4,986	4,959	4,874	4,724	4,706
TX	23,976	24,758	24,126	18,051	18,431	18,765
UT	1,082	1,053	1,047	988	951	936
VT	330	332	331	325	325	323
VA	2,773	2,857	2,700	2,697	2,692	2,589
WA	4,056	3,955	3,890	3,918	3,865	3,804
WV	660	651	622	654	644	614
WI	7,677	8,092	8,381	7,448	7,768	8,023
WY	1,639	1,421	1,668	1,523	1,300	1,596
US <sup>2</sup>	324,830	328,134	325,335	303,777	300,224	307,171

<sup>1</sup> Crops included are corn, sorghum, oats, barley, winter wheat, rye, durum wheat, other spring wheat, rice, soybeans, peanuts, sunflower, cotton, dry edible beans, potatoes, canola, proso millet, and sugarbeets. Harvested acreage is used for all hay, tobacco, and sugarcane in computing total area planted. Includes double cropped acres and unharvested small grains planted as cover crops.

<sup>2</sup> States do not add to U.S. due to sunflower, canola, and rye unallocated acreage.

**Corn: Area Planted for All Purposes and Harvested for Grain  
by State and United States, 2001-2003**

State	Area Planted for All Purposes			Area Harvested for Grain		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
AL	180	200	220	150	180	190
AZ	55	60	47	28	28	22
AR	190	270	365	185	260	350
CA	480	545	520	160	150	170
CO	1,220	1,200	1,080	1,070	720	890
CT <sup>1</sup>	32	32	30			
DE	170	180	170	162	167	162
FL	65	75	75	26	34	39
GA	265	340	340	220	290	285
ID	175	190	190	45	50	50
IL	11,000	11,200	11,200	10,850	11,000	11,050
IN	5,800	5,400	5,600	5,670	5,220	5,390
IA	11,700	12,300	12,400	11,400	11,900	12,000
KS	3,450	3,250	2,900	3,050	2,500	2,500
KY	1,200	1,130	1,170	1,100	1,040	1,080
LA	315	580	520	307	560	500
ME <sup>1</sup>	28	29	28			
MD	490	510	480	410	425	410
MA <sup>1</sup>	22	22	20			
MI	2,200	2,250	2,300	1,900	2,020	2,090
MN	6,800	7,200	7,200	6,200	6,700	6,650
MS	400	550	550	385	530	530
MO	2,700	2,800	2,900	2,600	2,700	2,800
MT	65	65	65	13	13	17
NE	8,100	8,400	8,100	7,750	7,350	7,700
NV <sup>1</sup>	3	4	4			
NH <sup>1</sup>	15	16	15			
NJ	80	90	80	66	70	61
NM	130	135	130	46	49	48
NY	1,030	1,040	1,000	540	450	440
NC	700	790	740	625	700	680
ND	880	1,230	1,450	705	995	1,170
OH	3,400	3,200	3,300	3,170	2,870	3,070
OK	250	240	230	210	190	190
OR	45	62	51	18	27	30
PA	1,500	1,450	1,450	990	870	890
RI <sup>1</sup>	2	2	2			
SC	260	320	240	240	260	215
SD	3,800	4,400	4,400	3,400	3,200	3,850
TN	680	690	710	620	620	630
TX	1,600	2,050	1,830	1,420	1,820	1,650
UT	60	55	55	15	14	13
VT <sup>1</sup>	90	92	96			
VA	470	500	470	330	305	330
WA	115	130	130	55	70	70
WV	50	50	48	26	30	27
WI	3,400	3,650	3,750	2,600	2,900	2,850
WY	90	80	85	51	36	50
US	75,752	79,054	78,736	68,808	69,313	71,139

<sup>1</sup> Area harvested for grain not estimated.

**Corn for Grain: Yield and Production by State  
and United States, 2001-2003**

State	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Bushels</i>	<i>Bushels</i>	<i>Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>
AL	107.0	88.0	122.0	16,050	15,840	23,180
AZ	208.0	185.0	190.0	5,824	5,180	4,180
AR	145.0	134.0	140.0	26,825	34,840	49,000
CA	170.0	170.0	160.0	27,200	25,500	27,200
CO	140.0	156.0	135.0	149,800	112,320	120,150
CT <sup>1</sup>						
DE	146.0	83.0	123.0	23,652	13,861	19,926
FL	87.0	96.0	82.0	2,262	3,264	3,198
GA	134.0	115.0	129.0	29,480	33,350	36,765
ID	150.0	160.0	140.0	6,750	8,000	7,000
IL	152.0	136.0	164.0	1,649,200	1,496,000	1,812,200
IN	156.0	121.0	146.0	884,520	631,620	786,940
IA	146.0	165.0	157.0	1,664,400	1,963,500	1,884,000
KS	127.0	116.0	120.0	387,350	290,000	300,000
KY	142.0	102.0	137.0	156,200	106,080	147,960
LA	148.0	122.0	134.0	45,436	68,320	67,000
ME <sup>1</sup>						
MD	136.0	76.0	123.0	55,760	32,300	50,430
MA <sup>1</sup>						
MI	105.0	115.0	126.0	199,500	232,300	263,340
MN	130.0	157.0	146.0	806,000	1,051,900	970,900
MS	130.0	125.0	135.0	50,050	66,250	71,550
MO	133.0	105.0	108.0	345,800	283,500	302,400
MT	148.0	140.0	140.0	1,924	1,820	2,380
NE	147.0	128.0	146.0	1,139,250	940,800	1,124,200
NV <sup>1</sup>						
NH <sup>1</sup>						
NJ	112.0	58.0	113.0	7,392	4,060	6,893
NM	180.0	180.0	180.0	8,280	8,820	8,640
NY	105.0	97.0	121.0	56,700	43,650	53,240
NC	125.0	83.0	106.0	78,125	58,100	72,080
ND	115.0	115.0	112.0	81,075	114,425	131,040
OH	138.0	88.0	156.0	437,460	252,560	478,920
OK	125.0	130.0	125.0	26,250	24,700	23,750
OR	140.0	115.0	170.0	2,520	3,105	5,100
PA	98.0	68.0	115.0	97,020	59,160	102,350
RI <sup>1</sup>						
SC	108.0	46.0	105.0	25,920	11,960	22,575
SD	109.0	95.0	111.0	370,600	304,000	427,350
TN	132.0	107.0	131.0	81,840	66,340	82,530
TX	118.0	113.0	118.0	167,560	205,660	194,700
UT	142.0	145.0	155.0	2,130	2,030	2,015
VT <sup>1</sup>						
VA	123.0	66.0	115.0	40,590	20,130	37,950
WA	190.0	190.0	195.0	10,450	13,300	13,650
WV	120.0	105.0	115.0	3,120	3,150	3,105
WI	127.0	135.0	129.0	330,200	391,500	367,650
WY	125.0	124.0	129.0	6,375	4,464	6,450
US	138.2	130.0	142.2	9,506,840	9,007,659	10,113,887

<sup>1</sup> Not estimated.

**Corn for Silage: Area Harvested, Yield, and Production  
by State and United States, 2001-2003**

State	Area Harvested			Yield			Production		
	2001	2002	2003	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>
AL	25	15	20	13.0	12.0	12.0	325	180	240
AZ	26	31	24	27.0	25.0	28.0	702	775	672
AR	3	5	8	12.0	15.0	15.0	36	75	120
CA	315	390	355	26.0	26.0	26.0	8,190	10,140	9,230
CO	115	200	90	23.0	18.0	21.0	2,645	3,600	1,890
CT	30	29	28	19.0	18.0	17.5	570	522	490
DE	7	10	5	18.0	14.0	16.0	126	140	80
FL	33	34	28	18.0	18.0	19.0	594	612	532
GA	40	40	45	18.0	16.0	17.0	720	640	765
ID	125	135	135	25.0	25.5	26.0	3,125	3,443	3,510
IL	115	130	110	16.0	16.0	15.0	1,840	2,080	1,650
IN	110	160	150	19.0	16.0	19.0	2,090	2,560	2,850
IA	230	330	330	18.5	19.0	20.0	4,255	6,270	6,600
KS	295	420	280	14.0	8.5	11.0	4,130	3,570	3,080
KY	95	85	80	19.0	15.0	18.0	1,805	1,275	1,440
LA	7	10	10	14.0	14.0	16.0	98	140	160
ME	25	26	25	19.0	17.0	18.0	475	442	450
MD	75	80	65	15.0	12.0	16.0	1,125	960	1,040
MA	19	18	17	21.0	17.5	19.0	399	315	323
MI	280	220	200	13.0	15.0	16.0	3,640	3,300	3,200
MN	500	425	475	14.0	18.0	14.0	7,000	7,650	6,650
MS	13	15	10	11.0	14.0	15.0	143	210	150
MO	70	70	80	16.0	13.0	10.5	1,120	910	840
MT	51	49	47	22.0	22.0	24.0	1,122	1,078	1,128
NE	275	475	300	17.0	9.5	12.0	4,675	4,513	3,600
NV	3	4	4	22.0	18.0	23.0	66	72	92
NH	14	15	14	21.0	18.0	19.5	294	270	273
NJ	13	18	18	16.0	10.0	15.0	208	180	270
NM	82	82	80	23.0	25.0	23.0	1,886	2,050	1,840
NY	485	580	550	16.0	13.0	17.5	7,760	7,540	9,625
NC	72	70	55	19.0	13.0	16.0	1,368	910	880
ND	155	180	220	11.0	7.0	6.8	1,705	1,260	1,496
OH	170	270	170	17.0	9.5	19.0	2,890	2,565	3,230
OK	23	25	24	18.0	21.0	18.0	414	525	432
OR	26	33	20	21.0	21.0	22.0	546	693	440
PA	490	560	550	16.0	11.5	14.5	7,840	6,440	7,975
RI	2	2	2	20.0	15.0	18.0	40	30	36
SC	15	10	7	20.0	15.0	15.0	300	150	105
SD	370	920	470	10.5	6.0	8.5	3,885	5,520	3,995
TN	55	55	50	19.0	15.0	17.0	1,045	825	850
TX	130	120	120	17.0	18.0	18.0	2,210	2,160	2,160
UT	44	40	41	21.0	20.0	21.0	924	800	861
VT	85	85	88	19.0	16.0	18.5	1,615	1,360	1,628
VA	135	170	135	15.5	11.5	17.5	2,093	1,955	2,363
WA	60	60	60	26.0	26.0	25.0	1,560	1,560	1,500
WV	23	19	19	17.0	16.5	15.5	391	314	295
WI	780	730	880	14.5	16.0	16.0	11,310	11,680	14,080
WY	37	40	34	21.0	18.0	22.0	777	720	748
US	6,148	7,490	6,528	16.6	14.0	16.2	102,077	104,979	105,864

### Corn for Grain: Objective Yield Data

The National Agricultural Statistics Service conducted an Objective Yield survey in 7 corn producing States during 2003. Randomly selected plots in corn for grain fields were visited monthly from August through harvest to obtain specific counts and measurements. Data in this table are rounded actual field counts from this survey.

**Corn for Grain: Number of Ears per Acre,  
Selected States, 1999-2003**

State	Month	1999	2000	2001	2002	2003
		<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
IL	Sep	25,050	25,500	25,650	25,050	26,700
	Oct	24,950	25,450	25,550	25,050	26,700
	Nov	24,850	25,450	25,550	25,000	26,650
	Final	24,900	25,450	25,550	25,000	26,650
IN	Sep	24,350	24,500	25,500	23,900	25,350
	Oct	23,950	24,550	25,350	23,650	25,400
	Nov	23,900	24,650	25,400	23,650	25,350
	Final	23,900	24,650	25,400	23,650	25,350
IA	Sep	25,300	26,000	25,450	25,950	26,700
	Oct	25,300	25,600	25,350	25,800	26,550
	Nov	25,300	25,650	25,250	25,800	26,600
	Final	25,300	25,650	25,250	25,800	26,600
MN	Sep	26,650	27,350	27,500	26,550	28,300
	Oct	26,700	27,350	26,750	26,150	28,650
	Nov	26,650	27,250	26,700	26,100	28,600
	Final	26,650	27,250	26,700	26,100	28,600
NE All	Sep	22,800	22,800	22,200	21,650	22,950
	Oct	22,650	22,750	21,950	21,250	22,650
	Nov	22,600	22,700	22,050	21,200	22,600
	Final	22,600	22,750	22,050	21,200	22,600
NE Irrigated	Sep	25,800	26,500	25,550	25,800	26,550
	Oct	25,600	26,350	25,350	25,700	26,350
	Nov	25,600	26,350	25,350	25,650	26,300
	Final	25,600	26,350	25,350	25,650	26,300
NE Non-Irrigated	Sep	18,800	17,550	18,050	16,700	18,300
	Oct	18,700	17,500	17,800	15,950	17,850
	Nov	18,700	17,500	18,000	15,950	17,800
	Final	18,700	17,500	18,000	15,950	17,800
OH	Sep	24,000	24,450	25,550	23,700	25,500
	Oct	24,100	24,250	25,250	22,400	25,700
	Nov	24,050	23,950	25,150	22,350	25,750
	Final	24,050	24,100	25,100	22,350	25,750
WI	Sep	25,600	26,100	26,100	25,950	26,150
	Oct	25,700	25,500	26,100	25,050	26,300
	Nov	25,700	25,550	26,100	25,250	26,250
	Final	25,700	25,550	26,100	25,250	26,250

**Sorghum: Area Planted for All Purposes and Harvested for Grain,  
Yield, and Production by State and United States, 2001-2003**

State	Area Planted for All Purposes			Area Harvested for Grain		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
AL	12	10	10	7	7	6
AZ	12	15	17	6	6	6
AR	175	240	225	170	230	210
CA	10	15	18	7	11	10
CO	310	350	270	220	90	160
DE	2	2	2	1	1	1
GA	50	55	55	25	30	38
IL	80	80	110	77	77	105
KS	4,000	3,800	3,550	3,750	3,000	2,900
KY	11	12	33	10	11	32
LA	230	180	170	210	165	165
MD	9	5	6	8	4	3
MS	90	80	75	87	77	73
MO	230	190	215	220	185	210
NE	550	450	660	425	300	500
NM	170	170	140	140	80	62
NC	15	17	18	11	12	14
OK	500	430	300	420	330	250
PA	11	11	15	4	3	5
SC	8	6	7	6	4	5
SD	240	220	270	150	90	150
TN	30	35	45	27	31	40
TX	3,500	3,200	3,200	2,600	2,550	2,850
VA	7	7	9	3	5	3
US	10,252	9,580	9,420	8,584	7,299	7,798
	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Bushels</i>	<i>Bushels</i>	<i>Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>
AL	60.0	45.0	45.0	420	315	270
AZ	80.0	80.0	90.0	480	480	540
AR	86.0	77.0	82.0	14,620	17,710	17,220
CA	90.0	95.0	90.0	630	1,045	900
CO	43.0	20.0	27.0	9,460	1,800	4,320
DE	85.0	48.0	70.0	85	48	70
GA	48.0	43.0	47.0	1,200	1,290	1,786
IL	105.0	83.0	82.0	8,085	6,391	8,610
KS	62.0	45.0	45.0	232,500	135,000	130,500
KY	85.0	75.0	95.0	850	825	3,040
LA	85.0	81.0	85.0	17,850	13,365	14,025
MD	83.0	47.0	65.0	664	188	195
MS	82.0	81.0	84.0	7,134	6,237	6,132
MO	94.0	85.0	77.0	20,680	15,725	16,170
NE	84.0	50.0	62.0	35,700	15,000	31,000
NM	45.0	35.0	27.0	6,300	2,800	1,674
NC	70.0	45.0	50.0	770	540	700
OK	36.0	45.0	37.0	15,120	14,850	9,250
PA	78.0	48.0	87.0	312	144	435
SC	65.0	35.0	52.0	390	140	260
SD	59.0	34.0	45.0	8,850	3,060	6,750
TN	80.0	80.0	82.0	2,160	2,480	3,280
TX	50.0	51.0	54.0	130,000	130,050	153,900
VA	88.0	55.0	70.0	264	275	210
US	59.9	50.7	52.7	514,524	369,758	411,237

**Sorghum for Silage: Area Harvested, Yield, and Production  
by State and United States, 2001-2003**

State	Area Harvested			Yield			Production		
	2001	2002	2003	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>
AL	1	1	3	9.0	9.0	15.0	9	9	45
AZ	6	9	11	19.0	20.0	23.0	114	180	253
AR	4	2	3	9.0	10.0	10.0	36	20	30
CA	3	4	8	20.0	17.0	18.0	60	68	144
CO	12	15	15	20.0	9.0	14.0	240	135	210
DE	1	1	1	18.0	12.0	14.0	18	12	14
GA	20	20	15	10.0	13.0	12.0	200	260	180
IL	1	2	3	9.1	5.0	7.0	9	10	21
KS	100	100	70	12.0	7.0	8.0	1,200	700	560
LA	1	1	1	12.0	10.0	11.0	12	10	11
MD	1	1	3	14.0	11.0	10.0	14	11	30
MS	1	1	1	11.0	13.0	13.0	11	13	13
MO	3	1	5	8.0	6.0	8.0	24	6	40
NE	20	25	35	11.0	7.5	9.5	220	188	333
NM	8	7	10	22.0	22.0	15.0	176	154	150
NC	3	3	3	10.0	5.0	10.0	30	15	30
OK	18	17	18	6.0	10.0	10.0	108	170	180
PA	5	7	8	10.0	7.0	9.0	50	49	72
SC	2	2	2	9.0	7.0	13.0	18	14	26
SD	50	40	50	9.5	5.5	7.0	475	220	350
TN	2	2	2	15.0	14.0	18.0	30	28	36
TX	70	90	70	9.0	12.0	11.0	630	1,080	770
VA	4	1	6	11.0	8.0	9.0	44	8	54
US	336	352	343	11.1	9.5	10.4	3,728	3,360	3,552

**Oats: Area Planted and Harvested, by State  
and United States, 2001-2003**

State	Area Planted <sup>1</sup>			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
CA	260	260	260	15	27	35
CO	80	65	100	32	8	15
GA	100	90	100	35	25	30
ID	130	125	120	20	25	25
IL	60	65	60	40	50	50
IN	25	20	25	16	14	15
IA	240	290	220	130	175	130
KS	100	140	140	40	60	70
ME	33	30	31	31	29	30
MI	70	80	90	55	65	75
MN	300	420	350	210	285	265
MO	40	65	30	20	35	18
MT	130	145	120	60	55	45
NE	155	175	220	60	55	90
NY	95	70	85	80	55	70
NC	60	75	55	30	35	22
ND	575	670	620	240	290	360
OH	100	70	80	85	60	60
OK	55	85	70	10	30	25
OR	55	70	60	25	30	20
PA	150	140	140	115	115	110
SC	50	50	40	25	30	20
SD	350	450	420	130	100	230
TX	725	750	625	160	160	140
UT	60	60	65	6	5	6
WA	30	35	35	12	10	15
WI	300	430	380	195	250	230
WY	75	70	60	28	15	23
US	4,403	4,995	4,601	1,905	2,093	2,224
State	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Bushels</i>	<i>Bushels</i>	<i>Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>
CA	60.0	80.0	80.0	900	2,160	2,800
CO	60.0	50.0	65.0	1,920	400	975
GA	65.0	60.0	56.0	2,275	1,500	1,680
ID	68.0	70.0	65.0	1,360	1,750	1,625
IL	80.0	69.0	89.0	3,200	3,450	4,450
IN	80.0	62.0	70.0	1,280	868	1,050
IA	70.0	76.0	83.0	9,100	13,300	10,790
KS	53.0	52.0	65.0	2,120	3,120	4,550
ME	75.0	90.0	78.0	2,325	2,610	2,340
MI	64.0	64.0	70.0	3,520	4,160	5,250
MN	60.0	56.0	71.0	12,600	15,960	18,815
MO	50.0	48.0	67.0	1,000	1,680	1,206
MT	40.0	49.0	44.0	2,400	2,695	1,980
NE	61.0	43.0	73.0	3,660	2,365	6,570
NY	69.0	66.0	63.0	5,520	3,630	4,410
NC	56.0	57.0	59.0	1,680	1,995	1,298
ND	62.0	44.0	59.0	14,880	12,760	21,240
OH	73.0	62.0	66.0	6,205	3,720	3,960
OK	38.0	37.0	36.0	380	1,110	900
OR	77.0	88.0	75.0	1,925	2,640	1,500
PA	65.0	61.0	59.0	7,475	7,015	6,490
SC	57.0	43.0	56.0	1,425	1,290	1,120
SD	60.0	45.0	68.0	7,800	4,500	15,640
TX	45.0	44.0	45.0	7,200	7,040	6,300
UT	65.0	90.0	82.0	390	450	492
WA	55.0	65.0	50.0	660	650	750
WI	64.0	60.0	67.0	12,480	15,000	15,410
WY	48.0	54.0	46.0	1,344	810	1,058
US	61.4	56.7	65.0	117,024	118,628	144,649

<sup>1</sup> Includes area planted in preceding fall.

**Barley: Area Planted and Harvested, Yield, and Production by State and United States 2001-2003**

State	Area Planted <sup>1</sup>			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
AZ	42	46	32	40	40	30
CA	160	130	100	110	75	58
CO	90	85	85	80	72	82
DE	29	25	25	26	23	21
ID	700	730	750	670	710	720
KS	9	8	9	8	7	8
KY	9	10	9	8	8	8
ME	27	27	28	26	26	27
MD	55	45	45	51	41	38
MI	21	20	15	18	19	14
MN	160	210	190	145	165	170
MT	1,100	1,200	1,100	720	950	810
NE	5	6	6	4	5	4
NV	4	4	5	1	2	3
NJ	5	4	4	4	3	3
NY	15	11	14	12	10	12
NC	28	31	20	18	20	14
ND	1,500	1,600	2,050	1,450	1,240	1,980
OH	6	6	7	5	5	6
OR	110	78	70	100	68	60
PA	70	70	75	60	60	65
SD	90	80	75	78	45	55
UT	85	70	45	65	45	35
VA	70	75	75	50	40	45
WA	430	350	320	420	340	310
WI	47	60	55	35	40	35
WY	100	90	90	85	70	75
US	4,967	5,071	5,299	4,289	4,129	4,688
	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Bushels</i>	<i>Bushels</i>	<i>Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>
AZ	110.0	110.0	118.0	4,400	4,400	3,540
CA	53.0	68.0	64.0	5,830	5,100	3,712
CO	107.0	100.0	109.0	8,560	7,200	8,938
DE	77.0	84.0	59.0	2,002	1,932	1,239
ID	75.0	76.0	66.0	50,250	53,960	47,520
KS	50.0	34.0	57.0	400	238	456
KY	85.0	64.0	75.0	680	512	600
ME	70.0	80.0	65.0	1,820	2,080	1,755
MD	75.0	82.0	57.0	3,825	3,362	2,166
MI	56.0	52.0	56.0	1,008	988	784
MN	55.0	39.0	75.0	7,975	6,435	12,750
MT	41.0	42.0	39.0	29,520	39,900	31,590
NE	45.0	43.0	50.0	180	215	200
NV	90.0	97.0	80.0	90	194	240
NJ	54.0	74.0	45.0	216	222	135
NY	51.0	47.0	50.0	612	470	600
NC	67.0	69.0	56.0	1,206	1,380	784
ND	55.0	46.0	60.0	79,750	57,040	118,800
OH	76.0	48.0	58.0	380	240	348
OR	45.0	50.0	64.0	4,500	3,400	3,840
PA	70.0	74.0	61.0	4,200	4,440	3,965
SD	52.0	41.0	53.0	4,056	1,845	2,915
UT	68.0	64.0	80.0	4,420	2,880	2,800
VA	75.0	77.0	62.0	3,750	3,080	2,790
WA	50.0	54.0	47.0	21,000	18,360	14,570
WI	52.0	45.0	55.0	1,820	1,800	1,925
WY	82.0	70.0	95.0	6,970	4,900	7,125
US	58.2	54.9	58.9	249,420	226,573	276,087

<sup>1</sup> Includes area planted in preceding fall.

**All Wheat: Area Planted and Harvested, by State  
and United States, 2001-2003**

State	Area Planted <sup>1</sup>			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
AL	170	150	150	70	60	75
AZ	94	99	119	93	99	119
AR	1,100	960	700	970	840	570
CA	615	625	805	461	390	485
CO	2,397	2,375	2,630	2,044	1,674	2,229
DE	60	60	50	57	58	47
FL	10	19	20	9	7	12
GA	300	350	380	200	200	230
ID	1,280	1,260	1,240	1,200	1,200	1,170
IL	750	680	850	720	650	810
IN	400	350	460	380	330	430
IA	25	20	21	18	16	19
KS	9,800	9,600	10,400	8,200	8,100	10,000
KY	550	550	480	360	340	330
LA	175	230	155	160	220	140
MD	190	195	165	175	180	145
MI	570	500	680	560	490	660
MN	1,867	2,040	1,877	1,815	1,834	1,825
MS	250	250	150	225	205	125
MO	900	900	960	760	760	870
MT	5,360	5,790	5,290	4,215	4,765	5,050
NE	1,750	1,650	1,900	1,600	1,520	1,820
NV	15	13	12	3	5	7
NJ	31	38	31	27	32	26
NM	500	520	500	240	170	140
NY	125	130	130	120	128	120
NC	680	650	530	470	480	410
ND	9,450	9,080	8,630	9,080	7,920	8,500
OH	950	860	1,060	900	810	1,000
OK	5,600	6,100	6,600	3,700	3,600	4,600
OR	910	950	1,115	855	850	1,080
PA	170	190	175	160	185	165
SC	220	210	200	210	190	185
SD	3,025	3,030	3,028	2,044	1,630	2,747
TN	500	470	430	340	300	270
TX	5,600	6,400	6,600	3,200	2,700	3,450
UT	160	155	175	141	136	135
VA	200	230	210	170	170	160
WA	2,490	2,420	2,400	2,380	2,365	2,345
WV	12	12	12	8	7	7
WI	178	198	212	167	177	180
WY	168	159	168	126	124	151
US	59,597	60,468	61,700	48,633	45,917	52,839

<sup>1</sup> Includes area planted in preceding fall.

**All Wheat: Yield and Production, by State  
and United States, 2001-2003**

State	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Bushels</i>	<i>Bushels</i>	<i>Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>
AL	48.0	40.0	42.0	3,360	2,400	3,150
AZ	91.6	95.5	100.1	8,517	9,455	11,912
AR	52.0	46.0	50.0	50,440	38,640	28,500
CA	76.1	80.8	70.2	35,105	31,500	34,070
CO	33.8	23.0	35.1	69,168	38,460	78,160
DE	61.0	70.0	41.0	3,477	4,060	1,927
FL	41.0	43.0	41.0	369	301	492
GA	53.0	41.0	46.0	10,600	8,200	10,580
ID	71.0	73.1	74.6	85,150	87,660	87,300
IL	61.0	49.0	65.0	43,920	31,850	52,650
IN	66.0	53.0	69.0	25,080	17,490	29,670
IA	54.0	50.0	61.0	972	800	1,159
KS	40.0	33.0	48.0	328,000	267,300	480,000
KY	66.0	53.0	62.0	23,760	18,020	20,460
LA	50.0	40.0	41.0	8,000	8,800	5,740
MD	63.0	66.0	37.0	11,025	11,880	5,365
MI	64.0	67.0	68.0	35,840	32,830	44,880
MN	43.9	33.9	57.8	79,655	62,240	105,482
MS	52.0	44.0	49.0	11,700	9,020	6,125
MO	54.0	45.0	61.0	41,040	34,200	53,070
MT	22.9	23.1	27.2	96,570	109,895	137,530
NE	37.0	32.0	46.0	59,200	48,640	83,720
NV	90.0	81.0	78.4	270	405	549
NJ	45.0	58.0	42.0	1,215	1,856	1,092
NM	34.0	22.0	30.0	8,160	3,740	4,200
NY	53.0	58.0	53.0	6,360	7,424	6,360
NC	39.0	42.0	36.0	18,330	20,160	14,760
ND	32.2	27.3	37.3	292,400	216,610	317,090
OH	67.0	62.0	68.0	60,300	50,220	68,000
OK	33.0	28.0	39.0	122,100	100,800	179,400
OR	38.2	40.0	49.6	32,650	34,010	53,540
PA	52.0	54.0	43.0	8,320	9,990	7,095
SC	43.0	37.0	39.0	9,030	7,030	7,215
SD	37.6	25.9	42.3	76,766	42,235	116,241
TN	54.0	46.0	50.0	18,360	13,800	13,500
TX	34.0	29.0	28.0	108,800	78,300	96,600
UT	42.8	36.0	41.4	6,034	4,892	5,585
VA	60.0	63.0	46.0	10,200	10,710	7,360
WA	55.7	54.8	59.4	132,580	129,695	139,345
WV	58.0	48.0	41.0	464	336	287
WI	64.1	60.9	68.3	10,708	10,771	12,300
WY	24.2	19.2	26.9	3,048	2,376	4,065
US	40.2	35.3	44.2	1,957,043	1,619,001	2,336,526

**Winter Wheat: Area Planted and Harvested, by State  
and United States, 2001-2003**

State	Area Planted <sup>1</sup>			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
AL	170	150	150	70	60	75
AZ	6	10	4	6	10	4
AR	1,100	960	700	970	840	570
CA	530	530	675	380	300	370
CO	2,350	2,350	2,600	2,000	1,650	2,200
DE	60	60	50	57	58	47
FL	10	19	20	9	7	12
GA	300	350	380	200	200	230
ID	760	730	760	710	690	720
IL	750	680	850	720	650	810
IN	400	350	460	380	330	430
IA	25	20	21	18	16	19
KS	9,800	9,600	10,400	8,200	8,100	10,000
KY	550	550	480	360	340	330
LA	175	230	155	160	220	140
MD	190	195	165	175	180	145
MI	570	500	680	560	490	660
MN	15	35	25	13	30	23
MS	250	250	150	225	205	125
MO	900	900	960	760	760	870
MT	1,300	1,450	1,800	870	750	1,720
NE	1,750	1,650	1,900	1,600	1,520	1,820
NV	9	6	7	2	3	3
NJ	31	38	31	27	32	26
NM	500	520	500	240	170	140
NY	125	130	130	120	128	120
NC	680	650	530	470	480	410
ND	150	80	130	80	70	120
OH	950	860	1,060	900	810	1,000
OK	5,600	6,100	6,600	3,700	3,600	4,600
OR	750	800	970	700	710	940
PA	170	190	175	160	185	165
SC	220	210	200	210	190	185
SD	1,300	1,300	1,600	370	625	1,380
TN	500	470	430	340	300	270
TX	5,600	6,400	6,600	3,200	2,700	3,450
UT	140	140	160	125	125	125
VA	200	230	210	170	170	160
WA	1,850	1,800	1,850	1,750	1,750	1,800
WV	12	12	12	8	7	7
WI	170	190	205	160	170	175
WY	160	150	160	120	120	145
US	41,078	41,845	44,945	31,295	29,751	36,541

<sup>1</sup> Includes area planted in preceding fall.

**Winter Wheat: Yield and Production, by State  
and United States, 2001-2003**

State	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Bushels</i>	<i>Bushels</i>	<i>Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>
AL	48.0	40.0	42.0	3,360	2,400	3,150
AZ	100.0	100.0	103.0	600	1,000	412
AR	52.0	46.0	50.0	50,440	38,640	28,500
CA	70.0	75.0	61.0	26,600	22,500	22,570
CO	33.0	22.0	35.0	66,000	36,300	77,000
DE	61.0	70.0	41.0	3,477	4,060	1,927
FL	41.0	43.0	41.0	369	301	492
GA	53.0	41.0	46.0	10,600	8,200	10,580
ID	73.0	79.0	80.0	51,830	54,510	57,600
IL	61.0	49.0	65.0	43,920	31,850	52,650
IN	66.0	53.0	69.0	25,080	17,490	29,670
IA	54.0	50.0	61.0	972	800	1,159
KS	40.0	33.0	48.0	328,000	267,300	480,000
KY	66.0	53.0	62.0	23,760	18,020	20,460
LA	50.0	40.0	41.0	8,000	8,800	5,740
MD	63.0	66.0	37.0	11,025	11,880	5,365
MI	64.0	67.0	68.0	35,840	32,830	44,880
MN	29.0	30.0	42.0	377	900	966
MS	52.0	44.0	49.0	11,700	9,020	6,125
MO	54.0	45.0	61.0	41,040	34,200	53,070
MT	22.0	28.0	37.0	19,140	21,000	63,640
NE	37.0	32.0	46.0	59,200	48,640	83,720
NV	95.0	85.0	83.0	190	255	249
NJ	45.0	58.0	42.0	1,215	1,856	1,092
NM	34.0	22.0	30.0	8,160	3,740	4,200
NY	53.0	58.0	53.0	6,360	7,424	6,360
NC	39.0	42.0	36.0	18,330	20,160	14,760
ND	40.0	38.0	49.0	3,200	2,660	5,880
OH	67.0	62.0	68.0	60,300	50,220	68,000
OK	33.0	28.0	39.0	122,100	100,800	179,400
OR	40.0	41.0	51.0	28,000	29,110	47,940
PA	52.0	54.0	43.0	8,320	9,990	7,095
SC	43.0	37.0	39.0	9,030	7,030	7,215
SD	32.0	29.0	43.0	11,840	18,125	59,340
TN	54.0	46.0	50.0	18,360	13,800	13,500
TX	34.0	29.0	28.0	108,800	78,300	96,600
UT	42.0	35.0	41.0	5,250	4,375	5,125
VA	60.0	63.0	46.0	10,200	10,710	7,360
WA	61.0	59.0	65.0	106,750	103,250	117,000
WV	58.0	48.0	41.0	464	336	287
WI	65.0	62.0	69.0	10,400	10,540	12,075
WY	24.0	19.0	27.0	2,880	2,280	3,915
US	43.5	38.5	46.7	1,361,479	1,145,602	1,707,069

**Durum Wheat: Area Planted, Harvested, Yield, and Production  
by State and United States, 2001-2003**

State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
AZ	88	89	115	87	89	115
CA	85	95	130	81	90	115
MN	2	5	2	2	4	2
MT	510	590	640	495	565	630
ND	2,200	2,100	2,000	2,100	1,950	1,980
SD	25	30	28	24	5	27
US	2,910	2,909	2,915	2,789	2,703	2,869
	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Bushels</i>	<i>Bushels</i>	<i>Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>
AZ	91.0	95.0	100.0	7,917	8,455	11,500
CA	105.0	100.0	100.0	8,505	9,000	11,500
MN	39.0	35.0	58.0	78	140	116
MT	24.0	23.0	23.0	11,880	12,995	14,490
ND	26.0	25.0	29.5	54,600	48,750	58,410
SD	24.0	22.0	23.0	576	110	621
US	30.0	29.4	33.7	83,556	79,450	96,637

**Wheat: Production by Class, United States, 2001-2003 <sup>1</sup>**

Year	Winter			Spring			Total
	Hard Red	Soft Red	White	Hard Red	White	Durum	
	<i>1,000 Bushels</i>						
2001	766,795	399,670	195,014	475,515	36,493	83,556	1,957,043
2002	612,015	332,303	201,284	353,744	40,205	79,450	1,619,001
2003	1,062,889	379,196	264,984	499,926	32,894	96,637	2,336,526

<sup>1</sup> Wheat class estimates are based on the latest varietal acreage survey data available.

**Other Spring Wheat: Area Planted, Harvested, Yield, and Production  
by State and United States, 2001-2003**

State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
CO	47	25	30	44	24	29
ID	520	530	480	490	510	450
MN	1,850	2,000	1,850	1,800	1,800	1,800
MT	3,550	3,750	2,850	2,850	3,450	2,700
NV	6	7	5	1	2	4
ND	7,100	6,900	6,500	6,900	5,900	6,400
OR	160	150	145	155	140	140
SD	1,700	1,700	1,400	1,650	1,000	1,340
UT	20	15	15	16	11	10
WA	640	620	550	630	615	545
WI	8	8	7	7	7	5
WY	8	9	8	6	4	6
US	15,609	15,714	13,840	14,549	13,463	13,429
	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Bushels</i>	<i>Bushels</i>	<i>Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>
CO	72.0	90.0	40.0	3,168	2,160	1,160
ID	68.0	65.0	66.0	33,320	33,150	29,700
MN	44.0	34.0	58.0	79,200	61,200	104,400
MT	23.0	22.0	22.0	65,550	75,900	59,400
NV	80.0	75.0	75.0	80	150	300
ND	34.0	28.0	39.5	234,600	165,200	252,800
OR	30.0	35.0	40.0	4,650	4,900	5,600
SD	39.0	24.0	42.0	64,350	24,000	56,280
UT	49.0	47.0	46.0	784	517	460
WA	41.0	43.0	41.0	25,830	26,445	22,345
WI	44.0	33.0	45.0	308	231	225
WY	28.0	24.0	25.0	168	96	150
US	35.2	29.3	39.7	512,008	393,949	532,820

**All Spring Wheat: Head Population**

The National Agricultural Statistics Service conducted objective yield surveys in three spring wheat producing States during 2003. Randomly selected plots in wheat fields were visited monthly from August through harvest to obtain specific counts and measurements. Data in this table are actual field counts from this survey.

**All Spring Wheat: Heads per Square Foot,  
Selected States, 1999-2003**

Crop and State		1999	2000	2001	2002	2003
		<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>	<i>Number</i>
Other Spring						
MN	Final	49.4	52.5	49.1	50.6	55.9
MT	Final	24.5	27.4	22.9	24.0	25.0
ND	Final	37.1	46.6	41.2	40.0	43.0
Durum						
ND	Final	22.9	24.2	23.3	23.7	24.3

**Rice: Area Planted and Harvested by Class,  
State, and United States, 2001-2003**

Class and State	Area Planted			Area Harvested		
	2001	2002	2003 <sup>1</sup>	2001	2002	2003 <sup>1</sup>
	<b>Long Grain</b>					
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
AR	1,480.0	1,350.0	1,300.0	1,472.0	1,340.0	1,290.0
CA	13.0	7.0	7.0	13.0	7.0	7.0
LA	540.0	530.0	435.0	538.0	525.0	430.0
MS	255.0	255.0	235.0	253.0	253.0	234.0
MO	210.0	190.0	175.0	206.0	182.0	170.0
TX	215.0	205.0	180.0	215.0	205.0	179.0
US	2,713.0	2,537.0	2,332.0	2,697.0	2,512.0	2,310.0
	<b>Medium Grain</b>					
AR	150.0	165.0	165.0	148.0	162.0	164.0
CA	435.0	500.0	460.0	433.0	495.0	458.0
LA	8.0	10.0	20.0	8.0	10.0	20.0
MO	1.0	0	1.0	1.0	0	1.0
TX	1.0	1.0	1.0	1.0	1.0	1.0
US	595.0	676.0	647.0	591.0	668.0	644.0
	<b>Short Grain</b>					
AR	1.0	1.0	1.0	1.0	1.0	1.0
CA	25.0	26.0	42.0	25.0	26.0	42.0
US	26.0	27.0	43.0	26.0	27.0	43.0
	<b>All</b>					
AR	1,631.0	1,516.0	1,466.0	1,621.0	1,503.0	1,455.0
CA	473.0	533.0	509.0	471.0	528.0	507.0
LA	548.0	540.0	455.0	546.0	535.0	450.0
MS	255.0	255.0	235.0	253.0	253.0	234.0
MO	211.0	190.0	176.0	207.0	182.0	171.0
TX	216.0	206.0	181.0	216.0	206.0	180.0
US	3,334.0	3,240.0	3,022.0	3,314.0	3,207.0	2,997.0

<sup>1</sup> Sweet rice acreage included in 2003 as short grain but not in previous years.

**Rice: Yield and Production by Class,  
State, and United States, 2001-2003**

Class and State	Yield			Production		
	2001	2002	2003 <sup>1</sup>	2001	2002	2003 <sup>1</sup>
<b>Long Grain</b>						
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
AR	6,330	6,430	6,600	93,178	86,162	85,140
CA	7,700	6,400	6,900	1,001	448	483
LA	5,500	5,500	5,870	29,590	28,875	25,241
MS	6,600	6,400	6,800	16,698	16,192	15,912
MO	6,000	6,050	6,130	12,360	11,011	10,421
TX	6,850	7,100	6,600	14,728	14,555	11,814
US	6,213	6,260	6,451	167,555	157,243	149,011
<b>Medium Grain</b>						
AR	6,500	6,500	6,500	9,620	10,530	10,660
CA	8,300	8,300	7,750	35,939	41,085	35,495
LA	5,300	5,250	5,780	424	525	1,156
MO	5,950	0	6,300	60	0	63
TX	6,200	6,100	6,600	62	61	66
US	7,801	7,815	7,366	46,105	52,201	47,440
<b>Short Grain</b>						
AR	6,000	6,000	6,000	60	60	60
CA	6,200	5,600	6,300	1,550	1,456	2,646
US	6,192	5,615	6,293	1,610	1,516	2,706
<b>All</b>						
AR	6,350	6,440	6,590	102,858	96,752	95,860
CA	8,170	8,140	7,620	38,490	42,989	38,624
LA	5,500	5,500	5,870	30,014	29,400	26,397
MS	6,600	6,400	6,800	16,698	16,192	15,912
MO	6,000	6,050	6,130	12,420	11,011	10,484
TX	6,850	7,100	6,600	14,790	14,616	11,880
US	6,496	6,578	6,645	215,270	210,960	199,157

<sup>1</sup> Sweet rice yield and production included in 2003 as short grain but not in previous years.

**Rye: Area Planted and Harvested by State  
and United States, 2001-2003**

State	Area Planted <sup>1</sup>			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
GA	300	260	270	35	45	50
ND	13	10	18	10	9	15
OK	250	300	280	50	65	90
SD	10	15	20	10	10	14
Oth Sts <sup>2</sup>	755	810	780	150	152	170
US	1,328	1,395	1,368	255	281	339
	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Bushels</i>	<i>Bushels</i>	<i>Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>
GA	25.0	16.0	16.0	875	720	800
ND	34.0	38.0	50.0	340	342	750
OK	23.0	20.0	24.0	1,150	1,300	2,160
SD	35.0	27.0	48.0	350	270	672
Oth Sts <sup>2</sup>	28.4	28.4	28.7	4,256	4,323	4,872
US	27.3	24.8	27.3	6,971	6,955	9,254

<sup>1</sup> Includes area planted in preceding fall.

<sup>2</sup> Other States include IL, KS, MI, MN, NE, NY, NC, PA, SC, TX, and WI.

**Proso Millet: Area Planted, Harvested, Yield, and Production  
by State and United States, 2001-2003**

State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
CO	240	220	320	230	95	285
NE	190	130	200	180	65	170
SD	220	100	210	175	60	165
US	650	450	730	585	220	620
	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Bushels</i>	<i>Bushels</i>	<i>Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>
CO	35.0	10.0	19.0	8,050	950	5,415
NE	31.0	13.0	19.0	5,580	845	3,230
SD	33.0	16.0	17.0	5,775	960	2,805
US	33.2	12.5	18.5	19,405	2,755	11,450

**All Hay: Area Harvested and Yield by State and United States, 2001-2003**

State	Area Harvested			Yield		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>
AL	920	800	780	2.60	2.20	2.60
AZ	258	275	275	7.22	7.40	7.86
AR	1,320	1,375	1,340	2.12	2.61	2.22
CA	1,540	1,640	1,570	5.79	5.85	5.93
CO	1,600	1,350	1,500	2.99	2.22	2.41
CT	63	59	60	1.86	1.95	2.20
DE	17	15	13	2.88	2.87	2.92
FL	270	280	255	2.80	2.80	2.50
GA	650	650	600	3.00	2.60	3.00
ID	1,420	1,570	1,500	3.48	3.57	3.30
IL	800	800	775	3.34	2.94	3.51
IN	610	600	650	3.36	2.66	3.25
IA	1,650	1,600	1,600	3.37	3.53	3.45
KS	3,300	3,250	3,250	2.42	2.14	2.15
KY	2,350	2,400	2,450	2.36	2.30	2.60
LA	450	450	380	2.80	2.50	2.90
ME	130	133	128	1.55	1.76	1.83
MD	225	220	195	2.32	2.31	2.76
MA	98	93	90	1.89	2.15	1.90
MI	1,150	1,150	1,050	3.30	3.22	2.97
MN	2,150	2,300	2,075	2.88	2.87	2.53
MS	780	750	750	2.50	2.50	2.50
MO	4,050	4,260	4,250	1.94	1.84	1.92
MT	2,450	2,600	2,450	1.81	1.78	1.89
NE	3,250	3,250	3,150	2.33	1.83	2.41
NV	495	485	440	3.20	3.13	3.25
NH	57	55	55	1.74	1.58	2.05
NJ	120	115	120	2.13	1.83	2.23
NM	380	380	300	4.19	4.43	4.27
NY	1,660	1,720	1,850	2.14	2.17	1.99
NC	710	750	778	2.22	1.51	2.61
ND	2,700	3,300	2,950	1.88	1.19	1.56
OH	1,520	1,490	1,350	2.81	2.52	2.94
OK	2,550	2,740	2,810	1.58	1.84	1.78
OR	1,025	1,095	1,115	2.98	3.11	3.25
PA	1,650	1,800	1,650	2.08	1.98	2.47
RI	8	7	8	1.75	2.14	2.13
SC	320	330	340	2.00	1.90	2.60
SD	4,700	4,000	4,300	1.95	1.20	1.68
TN	2,135	2,030	2,030	2.23	2.22	2.33
TX	5,230	5,630	5,240	2.07	2.46	2.36
UT	710	710	700	3.57	3.22	3.56
VT	240	240	235	1.67	2.00	2.00
VA	1,310	1,370	1,280	2.09	1.50	2.69
WA	790	810	810	3.91	4.13	4.45
WV	580	570	545	1.86	1.86	1.95
WI	2,000	2,050	2,100	2.40	2.60	2.09
WY	1,130	950	1,200	1.66	1.68	1.94
US	63,521	64,497	63,342	2.47	2.34	2.48

**All Hay: Production by State and United States, 2001-2003**

State	Production		
	2001 <i>1,000 Tons</i>	2002 <i>1,000 Tons</i>	2003 <i>1,000 Tons</i>
AL	2,392	1,760	2,028
AZ	1,862	2,034	2,162
AR	2,792	3,595	2,974
CA	8,915	9,594	9,310
CO	4,780	3,003	3,610
CT	117	115	132
DE	49	43	38
FL	756	784	638
GA	1,950	1,690	1,800
ID	4,938	5,608	4,950
IL	2,670	2,355	2,723
IN	2,048	1,596	2,110
IA	5,565	5,645	5,515
KS	7,980	6,965	7,000
KY	5,545	5,520	6,375
LA	1,260	1,125	1,102
ME	202	234	234
MD	522	508	539
MA	185	200	171
MI	3,790	3,700	3,120
MN	6,195	6,610	5,245
MS	1,950	1,875	1,875
MO	7,853	7,840	8,168
MT	4,445	4,620	4,635
NE	7,578	5,950	7,600
NV	1,584	1,519	1,429
NH	99	87	113
NJ	255	210	267
NM	1,592	1,684	1,281
NY	3,548	3,726	3,680
NC	1,578	1,131	2,030
ND	5,065	3,920	4,598
OH	4,275	3,750	3,974
OK	4,025	5,030	4,992
OR	3,052	3,407	3,629
PA	3,439	3,560	4,070
RI	14	15	17
SC	640	627	884
SD	9,150	4,800	7,210
TN	4,757	4,514	4,726
TX	10,837	13,850	12,388
UT	2,536	2,286	2,490
VT	400	480	470
VA	2,741	2,050	3,445
WA	3,088	3,346	3,603
WV	1,079	1,061	1,063
WI	4,790	5,340	4,380
WY	1,881	1,600	2,330
US	156,764	150,962	157,123

**Alfalfa and Alfalfa Mixtures for Hay: Area Harvested  
and Yield by State and United States, 2001-2003**

State	Area Harvested			Yield		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>
AZ	215	230	235	8.00	8.10	8.50
AR	20	25	20	3.10	3.40	3.50
CA	1,010	1,140	1,090	7.20	7.10	7.00
CO	950	780	800	3.80	2.90	3.20
CT	8	9	8	2.30	2.80	2.90
DE	8	7	5	3.40	3.60	2.70
ID	1,120	1,250	1,200	3.90	4.00	3.70
IL	500	450	425	3.90	3.60	4.10
IN	330	280	350	4.00	3.30	3.80
IA	1,250	1,250	1,330	3.70	3.90	3.70
KS	900	950	1,000	4.60	3.70	3.40
KY	250	300	250	3.70	3.00	3.50
ME	10	8	8	2.20	2.60	2.30
MD	65	60	45	3.10	2.60	3.30
MA	18	18	15	2.30	2.80	2.40
MI	900	900	850	3.60	3.50	3.20
MN	1,450	1,600	1,375	3.50	3.30	3.00
MO	450	460	450	3.05	3.00	2.95
MT	1,450	1,400	1,600	2.10	2.10	2.10
NE	1,450	1,350	1,450	3.55	3.00	3.60
NV	265	275	265	4.50	4.30	4.40
NH	7	7	8	2.00	2.10	2.40
NJ	30	25	30	3.40	3.00	3.50
NM	270	260	230	5.00	5.60	4.90
NY	560	570	600	2.80	2.30	2.80
NC	20	20	18	3.00	1.80	3.00
ND	1,600	1,450	1,600	2.10	1.30	1.65
OH	570	590	580	3.50	3.00	3.40
OK	350	340	310	2.70	3.50	3.20
OR	460	475	490	4.30	4.30	4.60
PA	670	680	550	2.50	2.60	3.00
RI	1	1	1	2.20	2.20	2.50
SD	3,000	2,400	2,700	2.20	1.40	1.90
TN	35	30	30	3.90	3.80	4.20
TX	130	130	140	4.90	5.00	4.70
UT	550	560	545	4.00	3.60	4.00
VT	40	45	40	2.00	2.00	2.00
VA	110	120	130	3.10	2.50	3.50
WA	470	490	510	4.80	5.00	5.30
WV	50	50	45	2.50	2.50	2.50
WI	1,700	1,650	1,600	2.50	2.80	2.30
WY	580	500	650	2.20	2.30	2.40
US	23,822	23,135	23,578	3.37	3.19	3.24

**Alfalfa and Alfalfa Mixtures for Hay: Production  
by State and United States, 2001-2003**

State	Production		
	2001 <i>1,000 Tons</i>	2002 <i>1,000 Tons</i>	2003 <i>1,000 Tons</i>
AZ	1,720	1,863	1,998
AR	62	85	70
CA	7,272	8,094	7,630
CO	3,610	2,262	2,560
CT	18	25	23
DE	27	25	14
ID	4,368	5,000	4,440
IL	1,950	1,620	1,743
IN	1,320	924	1,330
IA	4,625	4,875	4,921
KS	4,140	3,515	3,400
KY	925	900	875
ME	22	21	18
MD	202	156	149
MA	41	50	36
MI	3,240	3,150	2,720
MN	5,075	5,280	4,125
MO	1,373	1,380	1,328
MT	3,045	2,940	3,360
NE	5,148	4,050	5,220
NV	1,193	1,183	1,166
NH	14	15	19
NJ	102	75	105
NM	1,350	1,456	1,127
NY	1,568	1,311	1,680
NC	60	36	54
ND	3,360	1,885	2,640
OH	1,995	1,770	1,972
OK	945	1,190	992
OR	1,978	2,043	2,254
PA	1,675	1,768	1,650
RI	2	2	3
SD	6,600	3,360	5,130
TN	137	114	126
TX	637	650	658
UT	2,200	2,016	2,180
VT	80	90	80
VA	341	300	455
WA	2,256	2,450	2,703
WV	125	125	113
WI	4,250	4,620	3,680
WY	1,276	1,150	1,560
US	80,327	73,824	76,307

**All Other Hay: Area Harvested and Yield  
by State and United States, 2001-2003**

State	Area Harvested			Yield		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>
AL	920	800	780	2.60	2.20	2.60
AZ	43	45	40	3.30	3.80	4.10
AR	1,300	1,350	1,320	2.10	2.60	2.20
CA	530	500	480	3.10	3.00	3.50
CO	650	570	700	1.80	1.30	1.50
CT	55	50	52	1.80	1.80	2.10
DE	9	8	8	2.40	2.30	3.00
FL	270	280	255	2.80	2.80	2.50
GA	650	650	600	3.00	2.60	3.00
ID	300	320	300	1.90	1.90	1.70
IL	300	350	350	2.40	2.10	2.80
IN	280	320	300	2.60	2.10	2.60
IA	400	350	270	2.35	2.20	2.20
KS	2,400	2,300	2,250	1.60	1.50	1.60
KY	2,100	2,100	2,200	2.20	2.20	2.50
LA	450	450	380	2.80	2.50	2.90
ME	120	125	120	1.50	1.70	1.80
MD	160	160	150	2.00	2.20	2.60
MA	80	75	75	1.80	2.00	1.80
MI	250	250	200	2.20	2.20	2.00
MN	700	700	700	1.60	1.90	1.60
MS	780	750	750	2.50	2.50	2.50
MO	3,600	3,800	3,800	1.80	1.70	1.80
MT	1,000	1,200	850	1.40	1.40	1.50
NE	1,800	1,900	1,700	1.35	1.00	1.40
NV	230	210	175	1.70	1.60	1.50
NH	50	48	47	1.70	1.50	2.00
NJ	90	90	90	1.70	1.50	1.80
NM	110	120	70	2.20	1.90	2.20
NY	1,100	1,150	1,250	1.80	2.10	1.60
NC	690	730	760	2.20	1.50	2.60
ND	1,100	1,850	1,350	1.55	1.10	1.45
OH	950	900	770	2.40	2.20	2.60
OK	2,200	2,400	2,500	1.40	1.60	1.60
OR	565	620	625	1.90	2.20	2.20
PA	980	1,120	1,100	1.80	1.60	2.20
RI	7	6	7	1.70	2.20	2.00
SC	320	330	340	2.00	1.90	2.60
SD	1,700	1,600	1,600	1.50	0.90	1.30
TN	2,100	2,000	2,000	2.20	2.20	2.30
TX	5,100	5,500	5,100	2.00	2.40	2.30
UT	160	150	155	2.10	1.80	2.00
VT	200	195	195	1.60	2.00	2.00
VA	1,200	1,250	1,150	2.00	1.40	2.60
WA	320	320	300	2.60	2.80	3.00
WV	530	520	500	1.80	1.80	1.90
WI	300	400	500	1.80	1.80	1.40
WY	550	450	550	1.10	1.00	1.40
US	39,699	41,362	39,764	1.93	1.86	2.03

**All Other Hay: Production by State  
and United States, 2001-2003**

State	Production		
	2001 <i>1,000 Tons</i>	2002 <i>1,000 Tons</i>	2003 <i>1,000 Tons</i>
AL	2,392	1,760	2,028
AZ	142	171	164
AR	2,730	3,510	2,904
CA	1,643	1,500	1,680
CO	1,170	741	1,050
CT	99	90	109
DE	22	18	24
FL	756	784	638
GA	1,950	1,690	1,800
ID	570	608	510
IL	720	735	980
IN	728	672	780
IA	940	770	594
KS	3,840	3,450	3,600
KY	4,620	4,620	5,500
LA	1,260	1,125	1,102
ME	180	213	216
MD	320	352	390
MA	144	150	135
MI	550	550	400
MN	1,120	1,330	1,120
MS	1,950	1,875	1,875
MO	6,480	6,460	6,840
MT	1,400	1,680	1,275
NE	2,430	1,900	2,380
NV	391	336	263
NH	85	72	94
NJ	153	135	162
NM	242	228	154
NY	1,980	2,415	2,000
NC	1,518	1,095	1,976
ND	1,705	2,035	1,958
OH	2,280	1,980	2,002
OK	3,080	3,840	4,000
OR	1,074	1,364	1,375
PA	1,764	1,792	2,420
RI	12	13	14
SC	640	627	884
SD	2,550	1,440	2,080
TN	4,620	4,400	4,600
TX	10,200	13,200	11,730
UT	336	270	310
VT	320	390	390
VA	2,400	1,750	2,990
WA	832	896	900
WV	954	936	950
WI	540	720	700
WY	605	450	770
US	76,437	77,138	80,816

## Forage Production

Forage production is the sum of all dry hay production and haylage/greenchop production after converting the haylage/greenchop production to a dry equivalent basis (13 percent moisture) by multiplying the green weight (weight at harvest) by .4943. The conversion factor (.4943) is based on the assumption that one ton of dry hay is .87 ton of dry matter, one ton of haylage is .45 ton dry matter and one ton of greenchop is .25 ton dry matter. The total haylage/greenchop production is assumed to be comprised of 90 percent haylage and 10 percent greenchop. Therefore, the conversion factor used to adjust haylage/greenchop production to a dry equivalent basis =  $((.45*.9)+(.25*.1))/.87 = .4943$ . The factors assumed here may vary by State and can be adjusted. Adjustments would result in a slightly different conversion factor.

**All Forage: Area Harvested and Yield by State (Dry Equivalent),  
and Production, 2001-2003<sup>1</sup>**

State	Area Harvested			Yield		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>
MI	1,305	1,310	1,210	3.65	3.46	3.19
MN	2,380	2,590	2,265	3.28	3.10	2.70
NY	2,050	2,120	2,310	2.73	2.59	2.61
PA	2,000	1,950	1,930	2.41	2.45	2.74
VT	390	380	350	2.72	3.08	3.43
WA	814	839	855	4.25	4.26	4.60
WV	609	591	558	1.90	1.89	2.05
WI	3,000	3,000	3,000	3.43	3.44	2.92
	Production					
	2001	2002	2003			
	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>			
MI		4,769		4,538		3,855
MN		7,803		8,041		6,117
NY		5,587		5,487		6,027
PA		4,819		4,774		5,282
VT		1,059		1,172		1,199
WA		3,456		3,576		3,937
WV		1,160		1,119		1,142
WI		10,277		10,307		8,760

<sup>1</sup> All Forage production is the sum of the following dry equivalents: alfalfa hay harvested as dry hay, all other hay harvested as dry hay, alfalfa haylage and greenchop, all other hay haylage and greenchop; after converting alfalfa and all other haylage and greenchop to a dry equivalent basis.

**All Alfalfa Forage: Area Harvested and Yield by State (Dry Equivalent),  
and Production, 2001-2003<sup>1</sup>**

State	Area Harvested			Yield		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>
MI	1,040	1,050	1,000	4.03	3.76	3.41
MN	1,650	1,850	1,525	4.00	3.58	3.23
NY	900	900	950	3.55	3.11	3.73
PA	980	860	765	2.90	3.12	3.46
VT	90	100	90	3.44	3.37	4.04
WA	472	496	517	4.93	5.02	5.30
WV	57	53	48	2.60	2.51	2.77
WI	2,500	2,500	2,400	3.76	3.75	3.20
	Production					
	2001	2002	2003			
	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>			
MI		4,189		3,947		3,412
MN		6,597		6,624		4,926
NY		3,192		2,798		3,539
PA		2,838		2,685		2,644
VT		310		337		364
WA		2,325		2,490		2,739
WV		148		133		133
WI		9,391		9,365		7,684

<sup>1</sup> All alfalfa forage production is the sum of alfalfa harvested as dry hay; and alfalfa haylage and greenchop production after converting it to a dry equivalent basis.

**All Haylage and Greenchop: Area Harvested and Yield by State  
(Green Weight), and Production, 2001-2003 <sup>1</sup>**

State	Area Harvested			Yield		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>
MI	340	280	270	5.82	6.05	5.50
MN	380	440	340	8.56	6.58	5.19
NY	650	660	660	6.35	5.40	7.19
PA	545	500	440	5.12	4.91	5.57
VT	240	225	190	5.55	6.22	7.76
WA	75	52	64	9.93	8.92	10.55
WV	33	30	35	5.00	3.97	4.57
WI	1,800	1,600	1,700	6.17	6.28	5.21
	<b>Production</b>					
	2001		2002		2003	
	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>
MI		1,980		1,694		1,486
MN		3,254		2,896		1,764
NY		4,125		3,564		4,748
PA		2,790		2,455		2,451
VT		1,333		1,399		1,474
WA		745		464		675
WV		165		119		160
WI		11,100		10,050		8,860

<sup>1</sup> Includes all types of forage harvested as haylage or greenchop. Forage harvested as dry hay and corn and sorghum silage/greenchop are not included.

**Alfalfa Haylage and Greenchop: Area Harvested and Yield by State  
(Green Weight), and Production, 2001-2003 <sup>1</sup>**

State	Area Harvested			Yield		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>
MI	320	260	250	6.00	6.20	5.60
MN	350	400	300	8.80	6.80	5.40
NY	450	510	470	7.30	5.90	8.00
PA	420	350	335	5.60	5.30	6.00
VT	70	75	70	6.65	6.65	8.20
WA	20	12	12	7.00	6.70	6.00
WV	9	6	8	5.20	2.87	5.10
WI	1,600	1,500	1,500	6.50	6.40	5.40
	<b>Production</b>					
	2001		2002		2003	
	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>
MI		1,920		1,612		1,400
MN		3,080		2,720		1,620
NY		3,285		3,009		3,760
PA		2,352		1,855		2,010
VT		466		499		574
WA		140		80		72
WV		47		17		41
WI		10,400		9,600		8,100

<sup>1</sup> Includes only alfalfa and alfalfa mixtures that were harvested as haylage or greenchop. Alfalfa harvested as dry hay is not included.

**New Seedings of Alfalfa and Alfalfa mixtures: Area Seeded  
by State and United States, 2001-2003**

State	Area Seeded		
	2001 <i>1,000 Acres</i>	2002 <i>1,000 Acres</i>	2003 <i>1,000 Acres</i>
AZ	24	30	25
AR	5	5	6
CA	165	160	110
CO	150	80	65
CT	1	1	1
DE	1	1	1
ID	140	170	130
IL	50	53	50
IN	40	25	50
IA	185	205	180
KS	160	130	130
KY	30	35	35
ME	2	2	2
MD	9	9	4
MA	1	1	2
MI	100	125	130
MN	235	370	300
MO	60	45	35
MT	120	120	120
NE	250	220	230
NV	23	22	26
NH	1	1	1
NJ	2	1	1
NM	25	30	18
NY	100	85	105
NC	2	2	2
ND	130	110	105
OH	89	84	90
OK	60	55	55
OR	40	44	45
PA	100	110	100
SD	350	250	230
TN	6	6	4
TX	15	25	25
UT	60	55	40
VT	13	11	7
VA	15	15	14
WA	55	75	60
WV	6	7	5
WI	400	500	550
WY	40	25	30
US	3,260	3,300	3,119

**Peanuts: Area Planted, Harvested, Yield, and  
Production by State and United States, 2001-2003**

State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
AL	200.0	190.0	190.0	199.0	185.0	185.0
FL	90.0	96.0	125.0	82.0	86.0	115.0
GA	515.0	510.0	545.0	514.0	505.0	540.0
NM	22.2	18.0	18.0	22.2	18.0	17.0
NC	123.0	101.0	101.0	122.5	100.0	100.0
OK	80.0	60.0	37.0	77.0	57.0	35.0
SC	11.0	10.0	19.0	10.2	8.7	17.0
TX	425.0	315.0	275.0	310.0	280.0	270.0
VA	75.0	58.0	34.0	75.0	57.0	33.0
US	1,541.2	1,358.0	1,344.0	1,411.9	1,296.7	1,312.0
	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
AL	2,675	2,050	2,750	532,325	379,250	508,750
FL	3,050	2,300	3,000	250,100	197,800	345,000
GA	3,330	2,600	3,450	1,711,620	1,313,000	1,863,000
NM	3,020	3,000	2,700	67,044	54,000	45,900
NC	2,910	2,100	3,200	356,475	210,000	320,000
OK	2,570	2,800	2,800	197,890	159,600	98,000
SC	3,000	2,200	3,400	30,600	19,140	57,800
TX	2,890	3,100	3,000	895,900	868,000	810,000
VA	3,130	2,100	2,900	234,750	119,700	95,700
US	3,029	2,561	3,159	4,276,704	3,320,490	4,144,150

**Canola: Area Planted, Harvested, Yield, and Production  
by State and United States, 2001-2003**

State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
MN	80	80	57	75	45	56
ND	1,300	1,300	970	1,285	1,160	960
Oth Sts <sup>1</sup>	114	79	55	95	70	52
US	1,494	1,459	1,082	1,455	1,275	1,068
	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
MN	1,180	850	1,820	88,500	38,250	101,920
ND	1,400	1,230	1,410	1,799,000	1,426,800	1,353,600
Oth Sts <sup>1</sup>	1,169	1,250	1,091	111,015	87,470	56,730
US	1,374	1,218	1,416	1,998,515	1,552,520	1,512,250

<sup>1</sup> Other States include AL, AZ, CA, GA, ID, IN, KS, MI, MT, NY, OR, PA, SC, SD, and WA.

**Sunflowers: Area Planted and Harvested by Type,  
State, and United States, 2001-2003**

Varietal Types & State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>					
Oil						
CO	130	95	95	120	60	85
KS	300	200	170	290	155	155
MN	30	40	55	28	37	54
NE	52	47	51	50	34	48
ND	850	1,150	1,060	835	1,105	1,020
SD	670	535	475	661	375	430
TX	35	10	17	33	9	16
Oth Sts <sup>1</sup>	50	48	75	43	40	66
US	2,117	2,125	1,998	2,060	1,815	1,874
Non-Oil						
CO	65	35	35	62	20	33
KS	35	15	23	33	13	21
MN	30	30	35	28	27	34
NE	30	13	15	29	11	14
ND	220	220	150	215	210	145
SD	45	105	30	44	55	25
TX	73	25	42	70	20	40
Oth Sts <sup>1</sup>	18	12	16	14	9	11
US	516	455	346	495	365	323
All						
CO	195	130	130	182	80	118
KS	335	215	193	323	168	176
MN	60	70	90	56	64	88
NE	82	60	66	79	45	62
ND	1,070	1,370	1,210	1,050	1,315	1,165
SD	715	640	505	705	430	455
TX	108	35	59	103	29	56
Oth Sts <sup>1</sup>	68	60	91	57	49	77
US	2,633	2,580	2,344	2,555	2,180	2,197

<sup>1</sup> Other States include CA, GA, IL, LA, MI, MO, MT, NM, NY, OH, OK, PA, SC, UT, WA, WI, and WY.

**Sunflowers: Yield and Production by Type,  
State, and United States, 2001-2003**

Varietal Types & State	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Oil						
CO	1,140	650	1,000	136,800	39,000	85,000
KS	1,200	900	1,160	348,000	139,500	179,800
MN	1,400	1,450	1,650	39,200	53,650	89,100
NE	1,000	500	900	50,000	17,000	43,200
ND	1,440	1,310	1,300	1,202,400	1,447,550	1,326,000
SD	1,410	850	1,000	932,010	318,750	430,000
TX	1,100	800	1,400	36,300	7,200	22,400
Oth Sts <sup>1</sup>	1,372	1,178	1,275	58,994	47,130	84,166
US	1,361	1,140	1,206	2,803,704	2,069,780	2,259,666
Non-Oil						
CO	1,150	1,050	1,010	71,300	21,000	33,330
KS	1,330	930	1,200	43,890	12,090	25,200
MN	1,250	1,200	1,550	35,000	32,400	52,700
NE	1,150	700	1,050	33,350	7,700	14,700
ND	1,260	1,250	1,330	270,900	262,500	192,850
SD	1,450	1,000	1,100	63,800	55,000	27,500
TX	1,200	1,000	1,200	84,000	20,000	48,000
Oth Sts <sup>1</sup>	915	1,015	1,025	12,815	9,136	11,280
US	1,243	1,150	1,256	615,055	419,826	405,560
All						
CO	1,143	750	1,003	208,100	60,000	118,330
KS	1,213	902	1,165	391,890	151,590	205,000
MN	1,325	1,345	1,611	74,200	86,050	141,800
NE	1,055	549	934	83,350	24,700	57,900
ND	1,403	1,300	1,304	1,473,300	1,710,050	1,518,850
SD	1,412	869	1,005	995,810	373,750	457,500
TX	1,168	938	1,257	120,300	27,200	70,400
Oth Sts <sup>1</sup>	1,260	1,148	1,240	71,809	56,266	95,446
US	1,338	1,142	1,213	3,418,759	2,489,606	2,665,226

<sup>1</sup> Other States include CA, GA, IL, LA, MI, MO, MT, NM, NY, OH, OK, PA, SC, UT, WA, WI, and WY.

**Soybeans for Beans: Area Planted and Harvested  
by State and United States, 2001-2003**

State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>					
AL	140	170	170	135	155	160
AR	2,900	2,950	2,920	2,850	2,880	2,890
DE	205	190	180	201	185	178
FL	10	10	13	9	9	12
GA	165	160	190	155	140	180
IL	10,700	10,600	10,300	10,620	10,550	10,250
IN	5,600	5,800	5,450	5,590	5,770	5,350
IA	11,000	10,450	10,600	10,920	10,400	10,550
KS	2,850	2,750	2,600	2,730	2,540	2,480
KY	1,240	1,290	1,250	1,220	1,260	1,240
LA	640	800	760	610	660	740
MD	520	490	435	515	470	430
MI	2,150	2,050	2,000	2,130	2,040	1,990
MN	7,300	7,200	7,500	7,200	7,100	7,400
MS	1,160	1,440	1,440	1,120	1,370	1,430
MO	4,950	5,050	5,000	4,900	5,000	4,940
NE	4,950	4,700	4,550	4,900	4,580	4,490
NJ	103	100	90	101	97	88
NY	160	145	140	158	144	138
NC	1,380	1,370	1,450	1,350	1,290	1,400
ND	2,150	2,670	3,150	2,110	2,630	3,030
OH	4,600	4,750	4,300	4,580	4,720	4,280
OK	415	270	270	255	250	245
PA	400	405	380	395	390	375
SC	440	435	430	420	415	420
SD	4,500	4,250	4,250	4,470	4,090	4,190
TN	1,070	1,160	1,150	1,040	1,120	1,120
TX	260	230	200	225	205	180
VA	500	480	500	480	440	480
WV	17	18	16	16	17	15
WI	1,600	1,540	1,720	1,570	1,520	1,650
US	74,075	73,923	73,404	72,975	72,437	72,321

**Soybeans for Beans: Yield and Production  
by State and United States, 2001-2003**

State	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Bushels</i>	<i>Bushels</i>	<i>Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>
AL	35.0	24.0	36.0	4,725	3,720	5,760
AR	32.0	33.5	38.0	91,200	96,480	109,820
DE	39.0	25.0	36.0	7,839	4,625	6,408
FL	29.0	33.0	30.0	261	297	360
GA	26.0	21.0	33.0	4,030	2,940	5,940
IL	45.0	43.0	36.5	477,900	453,650	374,125
IN	49.0	41.5	38.0	273,910	239,455	203,300
IA	44.0	48.0	32.0	480,480	499,200	337,600
KS	32.0	23.0	23.0	87,360	58,420	57,040
KY	40.0	33.0	43.0	48,800	41,580	53,320
LA	33.0	32.0	34.0	20,130	21,120	25,160
MD	39.0	23.0	37.0	20,085	10,810	15,910
MI	30.0	38.5	27.0	63,900	78,540	53,730
MN	37.0	43.5	31.0	266,400	308,850	229,400
MS	33.0	32.0	39.0	36,960	43,840	55,770
MO	38.0	34.0	29.0	186,200	170,000	143,260
NE	45.5	38.5	40.0	222,950	176,330	179,600
NJ	31.0	23.0	34.0	3,131	2,231	2,992
NY	33.0	32.0	35.0	5,214	4,608	4,830
NC	32.0	24.0	30.0	43,200	30,960	42,000
ND	33.5	33.0	29.0	70,685	86,790	87,870
OH	41.0	31.0	38.0	187,780	146,320	162,640
OK	19.0	26.0	26.0	4,845	6,500	6,370
PA	35.0	26.0	41.0	13,825	10,140	15,375
SC	21.0	17.0	28.0	8,820	7,055	11,760
SD	32.0	31.0	27.0	143,040	126,790	113,130
TN	34.0	31.0	41.0	35,360	34,720	45,920
TX	26.0	28.0	28.0	5,850	5,740	5,040
VA	35.5	23.0	34.0	17,040	10,120	16,320
WV	42.0	37.0	41.0	672	629	615
WI	37.0	44.0	28.0	58,090	66,880	46,200
US	39.6	38.0	33.4	2,890,682	2,749,340	2,417,565

### Soybeans: Objective Yield Data

The National Agricultural Statistics Service conducted an Objective Yield survey in 7 soybean producing States during 2003. Randomly selected plots of soybean fields were visited monthly from August through harvest to obtain specific counts and measurements. Data in this table are actual field counts from this survey.

**Soybeans: Pods with Beans per 18 Square Feet,  
Selected States, 1999-2003**

State	Month	1999	2000	2001	2002	2003
		<i>Number of Pods</i>				
IL	Sep	1,917	2,162	2,041	1,952	1,800
	Oct	1,823	1,996	1,932	1,785	1,606
	Nov	1,788	2,020	1,932	1,795	1,634
	Final	1,787	2,021	1,932	1,802	1,634
IN	Sep	1,771	1,917	2,003	1,773	1,786
	Oct	1,627	1,786	1,882	1,677	1,692
	Nov	1,622	1,784	1,880	1,680	1,582
	Final	1,622	1,784	1,869	1,680	1,582
IA	Sep	2,142	1,830	1,809	1,988	1,749
	Oct	1,914	1,674	1,778	1,828	1,629
	Nov	1,894	1,660	1,787	1,867	1,647
	Final	1,878	1,660	1,796	1,867	1,647
MN	Sep	1,612	1,607	1,492	1,688	1,582
	Oct	1,555	1,509	1,433	1,785	1,417
	Nov	1,563	1,507	1,475	1,739	1,440
	Final	1,565	1,507	1,475	1,715	1,440
MO	Sep	1,242	1,974	1,424	1,427	1,144
	Oct	1,467	1,769	1,732	1,609	1,455
	Nov	1,508	1,782	1,874	1,681	1,547
	Final	1,525	1,793	1,921	1,705	1,523
NE	Sep	1,877	1,795	1,961	1,548	1,727
	Oct	1,880	1,617	1,932	1,517	1,642
	Nov	1,872	1,619	2,003	1,587	1,636
	Final	1,872	1,619	2,048	1,592	1,636
OH	Sep	1,699	1,893	1,801	1,593	1,791
	Oct	1,463	1,625	1,834	1,495	1,898
	Nov	1,494	1,685	1,785	1,499	1,764
	Final	1,494	1,697	1,785	1,492	1,752

**Flaxseed: Area Planted, Harvested, Yield, and Production  
by State and United States, 2001-2003**

State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
MN	4	6	8	4	5	7
MT	14	17	17	12	15	17
ND	550	750	560	545	680	550
SD	17	12	10	17	4	9
US	585	785	595	578	704	583
	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Bushels</i>	<i>Bushels</i>	<i>Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>	<i>1,000 Bushels</i>
MN	13.0	18.0	23.0	52	90	161
MT	15.0	13.0	13.0	180	195	221
ND	20.0	18.0	18.0	10,900	12,240	9,900
SD	19.0	11.0	16.0	323	44	144
US	19.8	17.9	17.9	11,455	12,569	10,426

**Other Oilseeds: Area Planted, Harvested, Yield,  
and Production by Crop, United States, 2001-2003**

Crop	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
Rapeseed	3.7	3.4	1.3	3.1	3.1	1.2
Safflower	188.0	219.0	221.0	177.0	196.0	212.0
Mustard Seed	45.8	191.0	110.0	44.2	175.0	107.0
	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Rapeseed	1,306	1,461	949	4,050	4,530	1,139
Safflower	1,365	1,520	1,286	241,665	297,980	272,555
Mustard Seed	930	705	723	41,106	123,450	77,372

**Cotton: Area Planted and Harvested by Type, State,  
and United States, 2001-2003**

Type and State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>					
Upland						
AL	610.0	590.0	525.0	605.0	540.0	510.0
AZ	295.0	215.0	215.0	290.0	213.0	213.0
AR	1,080.0	960.0	980.0	1,065.0	920.0	945.0
CA	630.0	480.0	550.0	625.0	477.0	545.0
FL	125.0	120.0	94.0	124.0	115.0	92.0
GA	1,490.0	1,450.0	1,300.0	1,480.0	1,360.0	1,290.0
KS	40.5	80.0	90.0	35.5	68.0	80.0
LA	870.0	520.0	525.0	855.0	495.0	510.0
MS	1,620.0	1,170.0	1,110.0	1,600.0	1,150.0	1,090.0
MO	405.0	380.0	400.0	400.0	368.0	390.0
NM	68.0	54.0	56.0	65.0	50.0	42.0
NC	970.0	940.0	810.0	965.0	920.0	770.0
OK	270.0	200.0	180.0	185.0	180.0	170.0
SC	300.0	290.0	220.0	296.0	200.0	218.0
TN	620.0	565.0	560.0	615.0	530.0	530.0
TX	6,000.0	5,600.0	5,600.0	4,250.0	4,500.0	4,400.0
VA	105.0	100.0	89.0	104.0	98.0	85.0
US	15,498.5	13,714.0	13,304.0	13,559.5	12,184.0	11,880.0
Amer-Pima						
AZ	7.8	8.3	3.0	7.5	8.2	3.0
CA	240.0	210.0	150.0	239.0	209.0	149.0
NM	5.2	7.1	6.1	5.2	7.1	6.0
TX	17.0	18.5	20.0	16.5	18.3	20.0
US	270.0	243.9	179.1	268.2	242.6	178.0
All						
AL	610.0	590.0	525.0	605.0	540.0	510.0
AZ	302.8	223.3	218.0	297.5	221.2	216.0
AR	1,080.0	960.0	980.0	1,065.0	920.0	945.0
CA	870.0	690.0	700.0	864.0	686.0	694.0
FL	125.0	120.0	94.0	124.0	115.0	92.0
GA	1,490.0	1,450.0	1,300.0	1,480.0	1,360.0	1,290.0
KS	40.5	80.0	90.0	35.5	68.0	80.0
LA	870.0	520.0	525.0	855.0	495.0	510.0
MS	1,620.0	1,170.0	1,110.0	1,600.0	1,150.0	1,090.0
MO	405.0	380.0	400.0	400.0	368.0	390.0
NM	73.2	61.1	62.1	70.2	57.1	48.0
NC	970.0	940.0	810.0	965.0	920.0	770.0
OK	270.0	200.0	180.0	185.0	180.0	170.0
SC	300.0	290.0	220.0	296.0	200.0	218.0
TN	620.0	565.0	560.0	615.0	530.0	530.0
TX	6,017.0	5,618.5	5,620.0	4,266.5	4,518.3	4,420.0
VA	105.0	100.0	89.0	104.0	98.0	85.0
US	15,768.5	13,957.9	13,483.1	13,827.7	12,426.6	12,058.0

**Cotton: Yield and Production by Type, State,  
and United States, 2001-2003**

Type and State	Yield			Production <sup>1</sup>		
	2001	2002	2003	2001	2002	2003
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Bales</i> <sup>2</sup>	<i>1,000 Bales</i> <sup>2</sup>	<i>1,000 Bales</i> <sup>2</sup>
Upland						
AL	730	507	772	920.0	570.0	820.0
AZ	1,142	1,381	1,262	690.0	613.0	560.0
AR	826	871	914	1,833.0	1,669.0	1,800.0
CA	1,359	1,469	1,321	1,770.0	1,460.0	1,500.0
FL	612	401	678	158.0	96.0	130.0
GA	720	557	781	2,220.0	1,578.0	2,100.0
KS	407	539	600	30.1	76.3	100.0
LA	580	717	955	1,034.0	739.0	1,015.0
MS	719	808	925	2,396.0	1,935.0	2,100.0
MO	834	796	874	695.0	610.0	710.0
NM	916	816	857	124.0	85.0	75.0
NC	832	421	686	1,673.0	806.0	1,100.0
OK	511	557	593	197.0	209.0	210.0
SC	686	314	727	423.0	131.0	330.0
TN	763	741	792	978.0	818.0	875.0
TX	481	538	464	4,260.0	5,040.0	4,250.0
VA	929	465	678	201.3	95.0	120.0
US	694	651	719	19,602.4	16,530.3	17,795.0
Amer-Pima						
AZ	928	1,013	960	14.5	17.3	6.0
CA	1,283	1,386	1,192	639.0	603.3	370.0
NM	969	1,041	880	10.5	15.4	11.0
TX	1,059	1,110	1,008	36.4	42.3	42.0
US	1,254	1,342	1,157	700.4	678.3	429.0
All						
AL	730	507	772	920.0	570.0	820.0
AZ	1,137	1,368	1,258	704.5	630.3	566.0
AR	826	871	914	1,833.0	1,669.0	1,800.0
CA	1,338	1,444	1,293	2,409.0	2,063.3	1,870.0
FL	612	401	678	158.0	96.0	130.0
GA	720	557	781	2,220.0	1,578.0	2,100.0
KS	407	539	600	30.1	76.3	100.0
LA	580	717	955	1,034.0	739.0	1,015.0
MS	719	808	925	2,396.0	1,935.0	2,100.0
MO	834	796	874	695.0	610.0	710.0
NM	920	844	860	134.5	100.4	86.0
NC	832	421	686	1,673.0	806.0	1,100.0
OK	511	557	593	197.0	209.0	210.0
SC	686	314	727	423.0	131.0	330.0
TN	763	741	792	978.0	818.0	875.0
TX	483	540	466	4,296.4	5,082.3	4,292.0
VA	929	465	678	201.3	95.0	120.0
US	705	665	725	20,302.8	17,208.6	18,224.0

<sup>1</sup> Production ginned and to be ginned.

<sup>2</sup> 480-lb. net weight bales.

**Cottonseed: Production by State and United States, 2001-2003**

State	Production		
	2001 <i>1,000 Tons</i>	2002 <i>1,000 Tons</i>	2003 <sup>1</sup> <i>1,000 Tons</i>
AL	315.0	195.0	282.0
AZ	261.0	232.4	209.0
AR	708.0	627.0	690.0
CA	849.0	731.0	662.0
FL	53.0	29.0	44.0
GA	764.0	544.0	719.0
KS	11.4	28.0	39.0
LA	380.0	271.0	372.0
MS	877.0	697.0	778.0
MO	268.0	218.0	263.0
NM	47.8	35.5	31.0
NC	559.0	272.0	377.0
OK	80.0	81.0	83.0
SC	137.0	44.0	111.0
TN	351.0	291.0	327.0
TX	1,724.0	1,855.0	1,666.0
VA	67.0	33.0	41.0
US	7,452.2	6,183.9	6,694.0

<sup>1</sup> Estimates based on 3-year average lint-seed ratio.

**Tobacco: Area Harvested, Yield, and Production  
by State and United States, 2001-2003**

State	Area Harvested			Yield		
	2001	2002	2003	2001	2002	2003
	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
CT	2,270	2,000	2,200	1,662	1,679	1,519
FL	4,500	4,600	4,400	2,600	2,600	2,500
GA	26,100	26,500	27,000	2,460	2,100	2,240
IN	4,200	4,000	4,200	2,250	2,000	2,000
KY	115,700	111,100	112,300	2,201	2,007	2,047
MD	2,200	1,700	1,500	1,500	1,400	1,450
MA	1,140	1,160	1,230	1,585	1,623	1,135
MO	1,300	1,300	1,300	2,370	2,385	2,000
NC	161,700	168,300	159,700	2,393	2,067	1,945
OH	6,100	5,500	5,300	1,960	1,750	1,700
PA	3,100	3,400	3,700	1,989	2,004	2,130
SC	32,000	30,500	30,000	2,450	1,950	2,100
TN	39,690	35,900	34,140	2,189	2,096	2,134
VA	29,500	30,000	26,220	2,150	2,147	1,628
WV	1,300	1,300	1,200	1,450	1,500	1,300
WI	1,510	1,450	1,820	2,397	2,632	2,350
US	432,310	428,710	416,210	2,293	2,049	1,997
	<b>Production</b>					
	2001		2002		2003	
	<i>1,000 Pounds</i>		<i>1,000 Pounds</i>		<i>1,000 Pounds</i>	
CT		3,772		3,357		3,342
FL		11,700		11,960		11,000
GA		64,206		55,650		60,480
IN		9,450		8,000		8,400
KY		254,653		222,991		229,840
MD		3,300		2,380		2,175
MA		1,807		1,883		1,396
MO		3,081		3,101		2,600
NC		386,920		347,920		310,695
OH		11,956		9,625		9,010
PA		6,166		6,815		7,880
SC		78,400		59,475		63,000
TN		86,893		75,261		72,870
VA		63,415		64,407		42,679
WV		1,885		1,950		1,560
WI		3,619		3,817		4,277
US		991,223		878,592		831,204

**Tobacco: Area Harvested by Class, Type, State,  
and United States, 2001-2003**

Class and Type	Area Harvested		
	2001	2002	2003
	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>
Class 1, Flue-cured			
Type 11, Old Belts			
NC	42,000	43,000	40,000
VA	20,500	22,000	19,000
US	62,500	65,000	59,000
Type 12, Eastern NC Belt			
NC	93,000	98,000	94,000
Type 13, NC Border & SC Belt			
NC	20,000	21,000	20,000
SC	32,000	30,500	30,000
US	52,000	51,500	50,000
Type 14, GA-FL Belt			
FL	4,500	4,600	4,400
GA	26,100	26,500	27,000
US	30,600	31,100	31,400
Total 11-14	238,100	245,600	234,400
Class 2, Fire-cured			
Type 21, VA Belt			
VA	1,200	730	650
Type 22, Eastern District			
KY	3,300	2,450	2,500
TN	6,500	5,000	5,200
US	9,800	7,450	7,700
Type 23, Western District			
KY	3,100	2,400	2,400
TN	520	390	400
US	3,620	2,790	2,800
Total 21-23	14,620	10,970	11,150
Class 3, Air-cured			
Class 3A, Light Air-cured			
Type 31, Burley			
IN	4,200	4,000	4,200
KY	105,000	103,000	104,000
MO	1,300	1,300	1,300
NC	6,700	6,300	5,700
OH	6,100	5,500	5,300
TN	32,000	30,000	28,000
VA	7,700	7,200	6,500
WV	1,300	1,300	1,200
US	164,300	158,600	156,200
Type 32, Southern MD Belt			
MD	2,200	1,700	1,500
PA	1,100	1,300	1,300
US	3,300	3,000	2,800
Total 31-32	167,600	161,600	159,000

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**Tobacco: Yield and Production by Class, Type, State,  
and United States, 2001-2003 (continued)**

Class and Type	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
Class 1, Flue-cured						
Type 11, Old Belts						
NC	2,500	2,225	1,900	105,000	95,675	76,000
VA	2,370	2,340	1,650	48,585	51,480	31,350
US	2,457	2,264	1,819	153,585	147,155	107,350
Type 12, Eastern NC Belt						
NC	2,400	2,020	2,000	223,200	197,960	188,000
Type 13, NC Border & SC Belt						
NC	2,400	2,135	1,950	48,000	44,835	39,000
SC	2,450	1,950	2,100	78,400	59,475	63,000
US	2,431	2,025	2,040	126,400	104,310	102,000
Type 14, GA-FL Belt						
FL	2,600	2,600	2,500	11,700	11,960	11,000
GA	2,460	2,100	2,240	64,206	55,650	60,480
US	2,481	2,174	2,276	75,906	67,610	71,480
Total 11-14	2,432	2,105	2,000	579,091	517,035	468,830
Class 2, Fire-cured						
Type 21, VA Belt						
VA	1,835	2,015	1,300	2,202	1,471	845
Type 22, Eastern District						
KY	3,400	3,160	3,200	11,220	7,742	8,000
TN	3,000	3,110	3,000	19,500	15,550	15,600
US	3,135	3,126	3,065	30,720	23,292	23,600
Type 23, Western District						
KY	3,460	3,650	3,500	10,726	8,760	8,400
TN	3,175	3,550	3,300	1,651	1,385	1,320
US	3,419	3,636	3,471	12,377	10,145	9,720
Total 21-23	3,098	3,182	3,064	45,299	34,908	34,165
Class 3, Air-cured						
Class 3A, Light Air-cured						
Type 31, Burley						
IN	2,250	2,000	2,000	9,450	8,000	8,400
KY	2,100	1,915	1,960	220,500	197,245	203,840
MO	2,370	2,385	2,000	3,081	3,101	2,600
NC	1,600	1,500	1,350	10,720	9,450	7,695
OH	1,960	1,750	1,700	11,956	9,625	9,010
TN	2,000	1,900	1,950	64,000	57,000	54,600
VA	1,620	1,575	1,600	12,474	11,340	10,400
WV	1,450	1,500	1,300	1,885	1,950	1,560
US	2,033	1,877	1,908	334,066	297,711	298,105
Type 32, Southern MD Belt						
MD	1,500	1,400	1,450	3,300	2,380	2,175
PA	1,860	1,850	2,000	2,046	2,405	2,600
US	1,620	1,595	1,705	5,346	4,785	4,775
Total 31-32	2,025	1,872	1,905	339,412	302,496	302,880

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**Tobacco: Area Harvested by Class, Type, State,  
and United States, 2001-2003**

Class and Type	Area Harvested		
	2001 <i>Acres</i>	2002 <i>Acres</i>	2003 <i>Acres</i>
Class 3, Air-cured			
Class 3B, Dark Air-cured			
Type 35, One Sucker Belt			
KY	2,750	2,100	2,200
TN	670	510	540
US	3,420	2,610	2,740
Type 36, Green River Belt			
KY	1,550	1,150	1,200
Type 37, VA Sun-cured Belt			
VA	100	70	70
Total 35-37	5,070	3,830	4,010
Class 4, Cigar Filler			
Type 41, PA Seedleaf PA	2,000	2,100	2,400
Class 5, Cigar Binder			
Class 5A, CT Valley Binder			
Type 51, CT Valley Broadleaf			
CT	1,300	1,350	1,400
MA	840	850	950
US	2,140	2,200	2,350
Class 5B, WI Binder			
Type 54, Southern WI WI	1,200	1,150	1,400
Type 55, Northern WI WI	310	300	420
Total 54-55	1,510	1,450	1,820
Total 51-55	3,650	3,650	4,170
Class 6, Cigar Wrapper			
Type 61, CT Valley Shade-grown			
CT	970	650	800
MA	300	310	280
US	1,270	960	1,080
All Cigar Types Total 41-61	6,920	6,710	7,650
All Tobacco	432,310	428,710	416,210

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**Tobacco: Yield and Production by Class, Type, State,  
and United States, 2001-2003 (continued)**

Class and Type	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 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	2,875	3,000	3,000	7,906	6,300	6,600
TN	2,600	2,600	2,500	1,742	1,326	1,350
US	2,821	2,922	2,901	9,648	7,626	7,950
Type 36, Green River						
Belt						
KY	2,775	2,560	2,500	4,301	2,944	3,000
Type 37, VA Sun-cured						
Belt						
VA	1,540	1,655	1,200	154	116	84
Total 35-37	2,782	2,790	2,752	14,103	10,686	11,034
Class 4, Cigar Filler						
Type 41, PA Seedleaf						
PA	2,060	2,100	2,200	4,120	4,410	5,280
Class 5, Cigar Binder						
Class 5A, CT Valley						
Binder						
Type 51, CT Valley						
Broadleaf						
CT	1,790	1,820	1,530	2,327	2,457	2,142
MA	1,780	1,840	1,130	1,495	1,564	1,074
US	1,786	1,828	1,369	3,822	4,021	3,216
Class 5B, WI Binder						
Type 54, Southern WI						
WI	2,535	2,740	2,500	3,042	3,151	3,500
Type 55, Northern WI						
WI	1,860	2,220	1,850	577	666	777
Total 54-55	2,397	2,632	2,350	3,619	3,817	4,277
Total 51-55	2,039	2,147	1,797	7,441	7,838	7,493
Class 6, Cigar Wrapper						
Type 61, CT Valley						
Shade-grown						
CT	1,490	1,385	1,500	1,445	900	1,200
MA	1,040	1,030	1,150	312	319	322
US	1,383	1,270	1,409	1,757	1,219	1,522
All Cigar Types						
Total 41-61	1,925	2,007	1,869	13,318	13,467	14,295
All Tobacco	2,293	2,049	1,997	991,223	878,592	831,204

**Sugarbeets: Area Planted, Harvested, Yield, and Production  
by State and United States, 2001-2003<sup>1</sup>**

State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>					
CA	46.6	50.2	50.8	44.7	49.9	50.2
CO	41.5	43.9	28.6	36.8	39.5	27.4
ID	199.0	212.0	208.0	179.0	210.0	207.0
MI	180.0	179.0	179.0	166.0	177.0	178.0
MN	468.0	505.0	492.0	426.0	476.0	487.0
MT	57.4	58.0	51.7	53.5	55.9	51.5
NE	48.6	57.0	45.3	41.4	42.0	42.4
ND	261.0	265.0	259.0	237.0	258.0	255.0
OH	0.8	1.9	1.9	0.6	1.8	1.8
OR	11.9	11.3	9.7	9.7	11.0	9.5
WA	7.2	4.0	4.4	7.1	4.0	4.4
WY	48.5	40.0	35.0	41.6	36.0	33.7
US	1,370.5	1,427.3	1,365.4	1,243.4	1,361.1	1,347.9
	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>
CA	35.7	39.5	36.5	1,596	1,971	1,832
CO	22.4	20.1	23.5	824	794	644
ID	25.9	24.3	29.3	4,636	5,103	6,065
MI	19.4	18.1	19.1	3,220	3,204	3,400
MN	18.3	18.6	20.6	7,796	8,854	10,032
MT	21.5	19.6	25.4	1,150	1,096	1,308
NE	20.3	18.1	20.3	840	760	861
ND	18.1	18.6	20.4	4,290	4,799	5,202
OH	20.0	20.6	25.5	12	37	46
OR	29.9	27.4	30.0	290	301	285
WA	35.6	35.0	40.5	253	140	178
WY	20.6	18.3	22.3	857	659	752
US	20.7	20.4	22.7	25,764	27,718	30,605

<sup>1</sup> Related to year of intended harvest except for overwintered spring planted beets in CA.

**Sugarcane: Area Harvested, Yield, and Production  
by State and United States, 2001-2003**

State	Area Harvested			Yield <sup>1</sup>		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Tons</i>	<i>Tons</i>	<i>Tons</i>
For Sugar						
FL	445.0	442.0	421.0	35.1	38.3	39.5
HI	19.3	21.3	20.5	97.3	99.0	99.2
LA	460.0	465.0	450.0	29.0	28.3	27.0
TX	46.0	43.6	42.4	42.1	39.1	37.0
US	970.3	971.9	933.9	33.8	34.9	34.7
For Seed						
FL	20.0	19.0	20.0	35.9	38.1	40.0
HI	1.5	1.4	1.5	36.2	35.5	37.6
LA	35.0	30.0	40.0	29.0	28.3	27.0
TX	1.0	0.9	1.4	25.0	30.0	35.0
US	57.5	51.3	62.9	31.5	32.2	31.6
For Sugar and Seed						
FL	465.0	461.0	441.0	35.1	38.3	39.5
HI	20.8	22.7	22.0	92.9	95.1	95.0
LA	495.0	495.0	490.0	29.0	28.3	27.0
TX	47.0	44.5	43.8	41.7	38.9	36.9
US	1,027.8	1,023.2	996.8	33.7	34.7	34.5
	Production <sup>1</sup>					
	2001	2002	2003			
	<i>1,000 Tons</i>	<i>1,000 Tons</i>	<i>1,000 Tons</i>			
For Sugar						
FL		15,620		16,929		16,630
HI		1,878		2,109		2,034
LA		13,340		13,160		12,150
TX		1,937		1,705		1,569
US		32,775		33,903		32,383
For Seed						
FL		718		724		800
HI		54		50		56
LA		1,015		849		1,080
TX		25		27		49
US		1,812		1,650		1,985
For Sugar and Seed						
FL		16,338		17,653		17,430
HI		1,932		2,159		2,090
LA		14,355		14,009		13,230
TX		1,962		1,732		1,618
US		34,587		35,553		34,368

<sup>1</sup> Net tons.

**Dry Edible Beans: Area Planted and Harvested by Commercial  
Class, State, and Total, 2002-2004**

Class and State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>					
Large Lima - CA	14.8	19.0	19.6	14.5	18.2	19.0
Baby Lima - CA	12.2	21.5	14.5	11.5	21.0	14.1
Navy						
ID	3.0	5.4	3.1	2.9	5.3	3.0
MI	65.0	85.0	40.0	30.0	84.0	38.0
MN	48.0	67.0	36.0	44.0	58.0	35.0
NE		2.9	1.0		2.7	1.0
ND	95.0	180.0	75.0	85.0	151.0	71.0
OR			0.5			0.5
SD	1.3	4.0	1.6	1.1	3.9	1.5
WY	1.0	1.0	1.0	0.8	0.8	0.9
Total	213.3	345.3	158.2	163.8	305.7	150.9
Great Northern						
ID	4.2	3.1	3.5	4.1	3.0	3.4
MI	8.0	3.0	8.0	3.5	3.0	8.0
MN	1.1	1.2	1.3	0.9	1.0	1.2
NE	84.0	77.8	84.2	79.0	67.7	79.1
ND	8.0	5.8	8.0	7.5	4.9	7.8
WA	1.2	0.9	0.9	1.2	0.9	0.9
WY	3.0	2.0	3.5	2.5	1.6	3.4
Total	109.5	93.8	109.4	98.7	82.1	103.8
Small White						
ID	0.9	2.0	1.9	0.9	1.9	1.8
OR	0.5	0.5	0.5	0.5	0.5	0.5
WA	0.4	0.8	0.3	0.4	0.8	0.3
Total	1.8	3.3	2.7	1.8	3.2	2.6
Pinto						
CA			0.5			0.5
CO	98.0	76.0	68.0	89.0	57.0	63.0
ID	22.2	35.8	29.0	21.5	35.0	28.2
KS	13.5		12.0	12.6		11.0
MI	7.0	9.5	11.0	4.5	9.5	10.5
MN	13.0	25.0	21.0	12.0	22.0	20.0
MT	11.5	13.5	9.7	10.0	12.9	9.7
NE	53.5	80.7	50.0	47.5	76.0	48.5
NM	15.0	8.0	10.0	15.0	8.0	10.0
ND	286.0	515.0	410.0	261.0	460.0	397.0
OR	2.1	1.3	1.7	1.9	1.3	1.5
SD	2.0	3.2	1.9	2.0	2.8	1.8
TX	1.0	5.5	1.0	0.9	4.5	0.5
UT	6.1	1.8	5.6	5.7	0.3	5.2
WA	4.2	11.0	7.0	4.2	11.0	7.0
WY	22.0	27.0	24.5	20.0	25.0	23.8
Total	557.1	813.3	662.9	507.8	725.3	638.2

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**Dry Edible Beans: Yield and Production by Commercial Class, State, and Total, 2001-2003 (continued)**

Class and State	Yield per Acre <sup>1</sup>			Production <sup>1</sup>		
	2001	2002	2003	2001	2002	2003
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
Large Lima - CA	2,250	1,840	1,950	326	334	370
Baby Lima - CA	2,040	2,390	2,300	235	501	325
Navy						
ID	2,170	2,250	2,370	63	119	71
MI	570	1,930	1,560	170	1,620	592
MN	1,620	1,800	1,750	713	1,043	612
NE		2,520	2,300		68	23
ND	1,560	1,550	1,640	1,327	2,340	1,164
OR			1,600			8
SD	2,270	2,460	1,600	25	96	24
WY	1,630	2,250	2,220	13	18	20
Total	1,411	1,735	1,666	2,311	5,304	2,514
Great Northern						
ID	2,150	2,170	2,320	88	65	79
MI	570	2,000	1,680	20	60	134
MN	1,440	1,200	2,080	13	12	25
NE	2,260	1,900	2,200	1,786	1,286	1,743
ND	1,710	1,510	1,760	128	74	137
WA	2,250	2,220	2,220	27	20	20
WY	1,840	1,750	2,290	46	28	78
Total	2,136	1,882	2,135	2,108	1,545	2,216
Small White						
ID	2,220	2,000	2,170	20	38	39
OR	2,200	2,400	2,000	11	12	10
WA	2,000	1,880	2,000	8	15	6
Total	2,167	2,031	2,115	39	65	55
Pinto						
CA			1,200			6
CO	1,720	2,250	1,610	1,530	1,282	1,015
ID	2,420	2,380	2,300	521	833	649
KS	1,860		2,100	234		231
MI	510	1,930	1,430	23	183	150
MN	1,300	1,350	1,650	156	297	329
MT	2,000	2,220	2,150	200	287	209
NE	2,210	2,250	2,100	1,050	1,709	1,019
NM	2,000	1,800	1,860	300	144	186
ND	1,550	1,560	1,480	4,050	7,184	5,864
OR	2,420	2,310	2,000	46	30	30
SD	2,250	2,610	2,110	45	73	38
TX	1,670	640	1,600	15	29	8
UT	300	1,670	310	17	5	16
WA	2,240	2,550	2,300	94	280	161
WY	2,200	2,180	2,210	440	544	526
Total	1,717	1,776	1,635	8,721	12,880	10,437

<sup>1</sup> Clean basis.

**Dry Edible Beans: Area Planted and Harvested by Commercial Class, State, and Total, 2001-2003**

Class and State	Area Planted			Area Harvested		
	2001 <i>1,000 Acres</i>	2002 <i>1,000 Acres</i>	2003 <i>1,000 Acres</i>	2001 <i>1,000 Acres</i>	2002 <i>1,000 Acres</i>	2003 <i>1,000 Acres</i>
Light Red Kidney						
CA	6.2	6.0	5.0	6.2	6.0	4.9
CO	9.0	10.0	8.0	8.4	8.0	7.0
ID	0.6	1.3	1.0	0.6	1.3	1.0
MI	18.0	15.0	16.0	11.0	14.5	15.5
MN	8.2	7.6	10.0	7.7	7.2	9.4
NE	11.5	14.0	14.0	11.0	13.7	13.9
NY	13.3	15.0	14.1	13.1	14.7	13.4
WA	1.0	1.4		1.0	1.4	
Total	67.8	70.3	68.1	59.0	66.8	65.1
Dark Red Kidney						
CA	2.5	2.5	0.9	2.5	2.5	0.9
ID	1.9	1.4	0.9	1.8	1.4	0.9
MI	9.0	8.5	9.0	7.0	8.0	9.0
MN	31.0	42.0	27.0	29.0	38.0	26.0
NY	1.2	2.0	1.1	1.2	2.0	1.1
ND	5.0	7.0	5.0	4.7	5.1	4.6
WI	6.3	7.1	6.0	6.1	7.0	5.9
Total	56.9	70.5	49.9	52.3	64.0	48.4
Pink						
CA			0.9			0.9
ID	4.9	10.8	10.6	4.8	10.6	10.3
MN	6.6	8.9	8.5	5.6	8.3	8.0
ND	4.0	9.0	8.5	3.8	7.8	7.7
WA	4.5	6.1	4.3	4.5	6.1	4.3
Total	20.0	34.8	32.8	18.7	32.8	31.2
Small Red						
ID	3.8	10.7	9.0	3.7	10.5	8.8
MI	12.0	11.0	19.0	6.5	11.0	19.0
MN		2.8	1.5		2.4	1.3
WA	3.0	6.4	3.7	3.0	6.4	3.7
Total	18.8	30.9	33.2	13.2	30.3	32.8
Cranberry						
CA	1.5	1.7	1.5	1.5	1.7	1.5
ID	2.6	2.5	1.9	2.6	2.5	1.9
MI	26.0	20.0	12.0	12.0	19.0	12.0
MN	0.6			0.5		
Total	30.7	24.2	15.4	16.6	23.2	15.4

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**Dry Edible Beans: Yield and Production by Commercial Class, State, and Total, 2001-2003 (continued)**

Class and State	Yield per Acre <sup>1</sup>			Production <sup>1</sup>		
	2001	2002	2003	2001	2002	2003
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
Light Red						
Kidney						
CA	1,450	1,270	1,390	90	76	68
CO	1,610	2,030	1,460	135	162	102
ID	1,670	1,920	1,700	10	25	17
MI	770	1,790	1,540	85	260	239
MN	1,490	1,940	1,490	115	140	140
NE	1,900	2,300	2,100	209	315	292
NY	850	1,300	1,890	112	191	253
WA	2,000	2,140		20	30	
Total	1,315	1,795	1,707	776	1,199	1,111
Dark Red						
Kidney						
CA	1,600	1,640	1,780	40	41	16
ID	1,890	1,860	1,670	34	26	15
MI	430	1,630	1,330	30	130	120
MN	1,500	1,700	1,850	435	646	480
NY	830	1,350	1,820	10	27	20
ND	1,450	1,330	1,520	68	68	70
WI	1,800	1,960	2,100	110	137	124
Total	1,390	1,680	1,746	727	1,075	845
Pink						
CA			1,000			9
ID	2,270	2,080	2,370	109	220	244
MN	1,050	1,600	1,600	59	133	128
ND	1,550	1,590	1,690	59	124	130
WA	2,200	2,130	2,350	99	130	101
Total	1,743	1,851	1,962	326	607	612
Small Red						
ID	2,240	2,150	2,270	83	226	200
MI	420	1,890	1,470	27	208	280
MN		1,080	1,150		26	15
WA	2,070	2,270	2,320	62	145	86
Total	1,303	1,997	1,771	172	605	581
Cranberry						
CA	2,000	1,350	1,670	30	23	25
ID	1,540	1,840	1,210	40	46	23
MI	580	1,530	1,180	70	290	142
MN	1,400			7		
Total	886	1,547	1,234	147	359	190

<sup>1</sup> Clean basis.

**Dry Edible Beans: Area Planted and Harvested by Commercial  
Class, State, and Total, 2001-2003**

Class and State	Area Planted			Area Harvested		
	2001 <i>1,000 Acres</i>	2002 <i>1,000 Acres</i>	2003 <i>1,000 Acres</i>	2001 <i>1,000 Acres</i>	2002 <i>1,000 Acres</i>	2003 <i>1,000 Acres</i>
<b>Black</b>						
CA			0.4			0.4
ID	0.6	4.0	1.3	0.6	3.9	1.3
MI	63.0	110.0	45.0	52.0	108.0	43.0
MN	2.0	11.9	4.9	1.3	10.0	4.6
NE	1.1	2.3	1.0	1.0	2.1	1.0
NY	6.7	6.0	8.2	6.3	5.8	7.9
ND	19.0	60.0	22.0	18.0	51.0	21.0
WA	2.0	2.6	1.5	2.0	2.6	1.5
Total	94.4	196.8	84.3	81.2	183.4	80.7
<b>Blackeye</b>						
CA	12.0	12.6	16.5	12.0	12.4	16.1
TX	20.0	22.0	34.0	17.5	20.0	30.0
Total	32.0	34.6	50.5	29.5	32.4	46.1
<b>Small Chickpeas <sup>2</sup> (Garbanzo, Smaller than 20/64 in)</b>						
CA						
ID			1.6			1.6
MT			2.1			2.0
NE						
ND			1.0			0.9
OR						
SD			1.0			0.8
WA			0.3			0.3
Total			6.0			5.6
<b>Larger Chickpeas <sup>2</sup> (Garbanzo, Larger than 20/64 in)</b>						
CA			9.7			9.4
ID			9.4			9.0
MT			1.1			1.0
NE			2.2			2.0
ND			4.0			3.8
OR			2.4			2.0
SD			0.8			0.7
WA			7.9			7.9
Total			37.5			35.8

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**Dry Edible Beans: Yield and Production by Commercial Class, State, and Total, 2001-2003 (continued)**

Class and State	Yield per Acre <sup>1</sup>			Production <sup>1</sup>		
	2001	2002	2003	2001	2002	2003
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
<b>Black</b>						
CA			1,750			7
ID	2,170	1,950	1,920	13	76	25
MI	640	1,880	1,580	335	2,030	680
MN	1,230	1,300	1,700	16	130	78
NE	2,200	1,810	2,000	22	38	20
NY	940	1,570	1,800	59	91	142
ND	1,600	1,350	1,320	288	689	277
WA	2,500	2,310	2,270	50	60	34
Total	964	1,698	1,565	783	3,114	1,263
<b>Blackeye</b>						
CA	2,420	2,520	2,480	290	313	400
TX	1,500	1,150	1,300	263	230	390
Total	1,875	1,676	1,714	553	543	790
<b>Small Chickpeas <sup>2</sup></b> (Garbanzo, Smaller than 20/64 in)						
CA						
ID			1,000			16
MT			900			18
NE						
ND			1,560			14
OR						
SD			1,130			9
WA			1,000			3
Total			1,071			60
<b>Larger Chickpeas <sup>2</sup></b> (Garbanzo, Larger than 20/64 in)						
CA			1,090			102
ID			900			81
MT			400			4
NE			700			14
ND			1,580			60
OR			1,200			24
SD			1,140			8
WA			1,020			81
Total			1,045			374

<sup>1</sup> Clean basis.

<sup>2</sup> Estimates began in 2003.

**Dry Edible Beans: Area Planted and Harvested by Commercial  
Class, State, and Total, 2001-2003**

Class and State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>					
Chickpeas, All (Garbanzo)						
CA	29.0	18.5	9.7	27.0	18.0	9.4
ID	28.8	17.0	11.0	28.0	16.6	10.6
MT	31.5	12.7	3.2	18.0	9.6	3.0
NE	6.3		2.2	6.0		2.0
ND	19.0	8.6	5.0	16.5	6.2	4.7
OR	5.0	4.0	2.4	4.7	3.7	2.0
SD	12.1	10.3	1.8	11.3	5.8	1.5
WA	17.0	11.0	8.2	17.0	11.0	8.2
Total	148.7	82.1	43.5	128.5	70.9	41.4
Other						
CA	9.8	10.2	7.5	9.8	9.2	7.3
CO	8.0	6.0	4.0	7.6	5.0	3.0
ID	1.5	1.0	1.8	1.5	1.0	1.8
KS	1.5	18.0		1.4	14.5	
MI	7.0	8.0	10.0	3.5	8.0	10.0
MN	4.5	3.6	4.8	4.0	3.1	4.5
MT	0.5	0.7	0.1	0.5	0.5	0.1
NE	3.6	7.3	2.6	3.5	2.8	2.5
NY	1.8	2.0	1.6	1.7	2.0	1.6
ND	4.0	4.6	6.5	3.5	4.0	6.2
OR	2.4	4.0	1.9	2.4	3.6	1.5
SD	2.6	3.5	2.7	2.6	3.5	2.7
TX	9.0	10.0	15.0	8.0	8.0	13.5
WA	0.7	0.8	1.6	0.7	0.8	1.6
WY	1.0	2.0	1.0	0.7	1.6	0.9
Total	57.9	81.7	61.1	51.4	67.6	57.2

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**Dry Edible Beans: Yield and Production by Commercial Class, State, and Total, 2001-2003 (continued)**

Class and State	Yield per Acre <sup>1</sup>			Production <sup>1</sup>		
	2001	2002	2003	2001	2002	2003
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
Chickpeas, All (Garbanzo)						
CA	1,270	1,600	1,090	342	288	102
ID	1,470	1,280	920	412	212	97
MT	950	740	730	171	71	22
NE	800		700	48		14
ND	1,400	1,470	1,570	231	91	74
OR	1,340	760	1,200	63	28	24
SD	1,250	430	1,130	141	25	17
WA	1,200	1,120	1,020	204	123	84
Total	1,254	1,182	1,048	1,612	838	434
Other						
CA	1,460	2,020	1,030	143	186	75
CO	1,580	1,500	1,700	120	75	51
ID	2,070	2,100	2,110	31	21	38
KS	1,790	1,100		25	160	
MI	570	1,530	1,380	20	122	138
MN	1,530	1,550	1,400	61	48	63
MT	1,000	600	2,000	5	3	2
NE	2,000	1,750	1,600	70	49	40
NY	760	1,200	1,940	13	24	31
ND	1,400	1,400	1,350	49	56	84
OR	2,170	2,420	1,800	52	87	27
SD	2,270	1,910	2,000	59	67	54
TX	880	700	850	70	56	115
WA	2,000	2,130	2,060	14	17	33
WY	2,140	2,130	2,330	15	34	21
Total	1,453	1,487	1,350	747	1,005	772

<sup>1</sup> Clean Basis.

**Dry Edible Beans: Area Planted and Harvested, Yield, and Production  
by State and United States, 2001-2003<sup>1</sup>**

State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
CA	88.0	92.0	77.0	85.0	89.0	75.0
CO	115.0	92.0	80.0	105.0	70.0	73.0
ID	75.0	95.0	75.0	73.0	93.0	73.0
KS	15.0	18.0	12.0	14.0	14.5	11.0
MI	215.0	270.0	170.0	130.0	265.0	165.0
MN	115.0	170.0	115.0	105.0	150.0	110.0
MT	43.5	26.9	13.0	28.5	23.0	12.8
NE	160.0	185.0	155.0	148.0	165.0	148.0
NM	15.0	8.0	10.0	15.0	8.0	10.0
NY	23.0	25.0	25.0	22.3	24.5	24.0
ND	440.0	790.0	540.0	400.0	690.0	520.0
OR	10.0	9.8	7.0	9.5	9.1	6.0
SD	18.0	21.0	8.0	17.0	16.0	7.5
TX	30.0	37.5	50.0	26.4	32.5	44.0
UT	6.1	1.8	5.6	5.7	0.3	5.2
WA	34.0	41.0	27.5	34.0	41.0	27.5
WI	6.3	7.1	6.0	6.1	7.0	5.9
WY	27.0	32.0	30.0	24.0	29.0	29.0
US	1,435.9	1,922.1	1,406.1	1,248.5	1,726.9	1,346.9
	Yield per Acre <sup>2</sup>			Production <sup>2</sup>		
	2001	2002	2003	2001	2002	2003
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
CA	1,760	1,980	1,870	1,496	1,762	1,403
CO	1,700	2,170	1,600	1,785	1,519	1,168
ID	1,950	2,050	2,050	1,424	1,907	1,497
KS	1,850	1,100	2,100	259	160	231
MI	600	1,850	1,500	780	4,903	2,475
MN	1,500	1,650	1,700	1,575	2,475	1,870
MT	1,320	1,570	1,820	376	361	233
NE	2,150	2,100	2,130	3,185	3,465	3,151
NM	2,000	1,800	1,860	300	144	186
NY	870	1,360	1,860	194	333	446
ND	1,550	1,540	1,500	6,200	10,626	7,800
OR	1,810	1,730	1,650	172	157	99
SD	1,590	1,630	1,770	270	261	133
TX	1,320	970	1,170	348	315	513
UT	300	1,670	310	17	5	16
WA	1,700	2,000	1,910	578	820	525
WI	1,800	1,960	2,100	110	137	124
WY	2,140	2,150	2,220	514	624	645
US	1,569	1,736	1,672	19,583	29,974	22,515

<sup>1</sup> Excludes beans grown for garden seed.

<sup>2</sup> Clean Basis.

**Lentils: Area Planted, Harvested, Yield, and Production  
by State and United States, 2001-2003**

State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>					
ID	54.0	68.0	68.0	53.0	66.0	66.0
MT	22.0	25.0	30.0	20.0	21.0	26.0
ND	45.0	53.0	55.0	44.0	47.0	54.0
WA	80.0	75.0	93.0	80.0	75.0	91.0
US	201.0	221.0	246.0	197.0	209.0	237.0
	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
ID	1,500	1,200	950	795	792	627
MT	1,100	710	1,050	220	149	273
ND	1,370	1,100	1,170	603	517	632
WA	1,600	1,400	1,000	1,280	1,050	910
US	1,471	1,200	1,030	2,898	2,508	2,442

**Wrinkled Seed Peas: Production by State  
and United States, 2001-2003**

State	Production		
	2001	2002	2003
	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
ID		202	157
WA <sup>1</sup>		438	442
US		640	599

<sup>1</sup> 2002 revised.

**Dry Edible Peas: Area Planted, Harvested, Yield, and Production  
by State and United States, 2001-2003<sup>1</sup>**

State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>					
ID	24.0	41.0	55.0	23.0	40.0	54.0
MT	26.0	32.0	33.0	16.5	27.0	31.0
ND	90.0	155.0	160.0	86.0	138.0	155.0
OR	4.8	4.7	6.5	4.8	4.7	6.5
WA	62.0	70.0	83.0	62.0	70.0	82.0
US	206.8	302.7	337.5	192.3	279.7	328.5
	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
ID	2,000	1,600	1,200	460	640	648
MT	1,510	760	1,450	249	205	450
ND	2,020	1,450	1,770	1,737	2,001	2,744
OR	1,600	1,400	2,000	77	66	130
WA	2,000	1,900	1,500	1,240	1,330	1,230
US	1,957	1,517	1,584	3,763	4,242	5,202

<sup>1</sup> Excludes both wrinkled seed peas and Austrian winter peas.

**Austrian Winter Peas: Area Planted, Harvested, Yield,  
and Production by State and United States, 2001-2003**

State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>					
ID	4.5	11.0	10.0	4.0	7.5	8.0
MT	9.9	9.5	9.5	2.5	3.5	7.0
OR	1.5	1.0	1.6	0.6	0.6	0.6
US	15.9	21.5	21.1	7.1	11.6	15.6
	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
ID	1,700	1,800	1,400	68	135	112
MT	790	580	800	20	20	56
OR	1,500	1,500	1,000	9	9	6
US	1,366	1,414	1,115	97	164	174

**Potatoes: Area Planted, Harvested, Yield, and Production  
by Seasonal Group, State, and United States, 2001-2003**

Seasonal Group and State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>					
Winter <sup>1</sup>						
CA	9.0	9.0	8.5	9.0	9.0	8.5
FL	7.8	6.8	6.1	5.0	6.7	5.8
Total	16.8	15.8	14.6	14.0	15.7	14.3
Spring <sup>2</sup>						
AZ	8.2	7.8	7.6	8.2	7.8	7.6
CA	15.5	19.0	19.0	15.5	19.0	19.0
FL	25.6	27.0	30.0	25.0	26.3	28.6
Hastings	18.5	19.5	21.5	18.0	19.0	20.3
Other FL	7.1	7.5	8.5	7.0	7.3	8.3
NC	19.5	21.5	19.0	18.5	21.0	17.0
TX	9.5	12.5	13.0	9.0	12.0	12.5
Total	78.3	87.8	88.6	76.2	86.1	84.7
	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Cwt</i>	<i>Cwt</i>	<i>Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
Winter <sup>1</sup>						
CA	310	270	310	2,790	2,430	2,635
FL	265	265	240	1,325	1,776	1,392
Total	294	268	282	4,115	4,206	4,027
Spring <sup>2</sup>						
AZ	270	270	275	2,214	2,106	2,090
CA	390	405	440	6,045	7,695	8,360
FL	319	300	280	7,970	7,883	8,008
Hastings	330	315	280	5,940	5,985	5,684
Other FL	290	260	280	2,030	1,898	2,324
NC	190	170	175	3,515	3,570	2,975
TX	230	170	240	2,070	2,040	3,000
Total	286	271	288	21,814	23,294	24,433

<sup>1</sup> Carried forward from earlier estimate.

<sup>2</sup> 2003 revised.

**Potatoes: Area Planted and Harvested by Seasonal Group,  
State, and United States, 2001-2003**

Seasonal Group and State	Area Planted			Area Harvested		
	2001 <i>1,000 Acres</i>	2002 <i>1,000 Acres</i>	2003 <i>1,000 Acres</i>	2001 <i>1,000 Acres</i>	2002 <i>1,000 Acres</i>	2003 <i>1,000 Acres</i>
Summer						
AL	4.2	3.1	3.5	3.9	3.0	2.1
CA	8.0	7.3	7.5	8.0	7.3	7.2
CO	5.8	6.4	6.8	5.6	6.3	6.7
DE	4.4	3.7	3.7	4.3	3.6	3.6
IL	5.5	6.5	6.5	5.3	6.4	6.1
KS	2.5	3.0	2.8	2.4	2.9	2.7
MD	4.8	4.8	4.7	4.7	4.7	4.6
MO	6.2	7.0	8.0	5.6	5.4	7.1
NJ	2.5	2.6	2.8	2.5	2.6	2.7
NM	2.2	2.5	1.9	2.2	2.3	1.9
TX	8.5	8.8	9.0	8.0	8.3	8.4
VA	6.5	6.5	7.0	6.3	6.3	6.2
Total	61.1	62.2	64.2	58.8	59.1	59.3
Fall						
CA	3.2	8.2	8.4	3.2	8.2	8.4
CO	68.1	71.6	66.3	67.8	71.5	65.7
ID	350.0	375.0	360.0	348.0	373.0	358.0
10 SW Co	23.0	27.0	25.0	23.0	27.0	25.0
Other ID	327.0	348.0	335.0	325.0	346.0	333.0
IN	3.1	2.9	3.8	2.9	2.8	3.7
ME	62.0	64.0	66.0	62.0	64.0	65.5
MA	2.9	3.3	3.0	2.8	3.2	2.8
MI	46.0	46.5	46.0	45.0	45.5	45.5
MN	59.0	61.0	60.0	55.0	55.0	58.0
MT	10.5	10.5	10.7	10.3	10.4	10.6
NE	22.5	22.0	23.5	22.4	21.8	23.2
NV	6.5	7.6	8.3	6.5	7.6	8.0
NM	4.2	4.0	4.0	4.2	4.0	4.0
NY	23.5	22.5	22.2	23.3	22.0	21.7
ND	118.0	118.0	117.0	110.0	102.0	112.0
OH	4.4	4.3	4.5	4.3	4.2	4.3
OR	45.0	50.0	42.8	44.5	49.8	42.6
Malheur	9.0	8.0	5.8	9.0	8.0	5.8
Other OR	36.0	42.0	37.0	35.5	41.8	36.8
PA	14.0	15.0	14.5	13.5	14.0	13.5
RI	0.5	0.5	0.6	0.5	0.5	0.5
SD	2.8	1.1	1.0	2.7	1.1	1.0
UT	1.3	0.8	1.0	1.3	0.8	1.0
WA	160.0	165.0	163.0	160.0	165.0	162.0
WI	84.0	85.0	81.0	83.0	83.0	80.0
Total	1,091.5	1,138.8	1,107.6	1,073.2	1,109.4	1,092.0
US	1,247.7	1,304.6	1,275.0	1,222.2	1,270.3	1,250.3

**Potatoes: Yield and Production by Seasonal Group,  
State, and United States, 2001-2003**

Seasonal Group and State	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Cwt</i>	<i>Cwt</i>	<i>Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
Summer						
AL	160	185	185	624	555	389
CA	355	360	400	2,840	2,628	2,880
CO	360	360	380	2,016	2,268	2,546
DE	270	260	240	1,161	936	864
IL	350	310	360	1,855	1,984	2,196
KS	300	340	380	720	986	1,026
MD	250	250	240	1,175	1,175	1,104
MO	340	240	265	1,904	1,296	1,882
NJ	255	275	260	638	715	702
NM	350	320	280	770	736	532
TX	390	400	420	3,120	3,320	3,528
VA	220	220	250	1,386	1,386	1,550
Total	310	304	324	18,209	17,985	19,199
Fall						
CA	445	520	410	1,424	4,264	3,444
CO	315	390	360	21,357	27,885	23,652
ID	345	358	344	120,200	133,385	123,180
10 SW Co	450	455	465	10,350	12,285	11,625
Other ID	338	350	335	109,850	121,100	111,555
IN	320	260	250	928	728	925
ME	265	265	260	16,430	16,960	17,030
MA	265	255	275	742	816	770
MI	310	305	330	13,950	13,878	15,015
MN	335	340	385	18,425	18,700	22,330
MT	320	310	315	3,296	3,224	3,339
NE	375	395	425	8,400	8,611	9,860
NV	360	350	415	2,340	2,660	3,320
NM	340	400	400	1,428	1,600	1,600
NY	255	250	300	5,942	5,500	6,510
ND	240	230	245	26,400	23,460	27,440
OH	255	215	300	1,097	903	1,290
OR	466	501	493	20,730	24,936	20,991
Malheur	410	400	415	3,690	3,200	2,407
Other OR	480	520	505	17,040	21,736	18,584
PA	235	185	290	3,173	2,590	3,915
RI	280	235	300	140	118	150
SD	240	300	340	648	330	340
UT	265	305	335	345	244	335
WA	590	560	575	94,400	92,400	93,150
WI	385	375	410	31,955	31,125	32,800
Total	367	373	377	393,750	414,317	411,386
US	358	362	367	437,888	459,802	459,045

**Potatoes: Area Planted and Harvested by State  
and United States, 2001-2003**

State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>					
AL	4.2	3.1	3.5	3.9	3.0	2.1
AZ	8.2	7.8	7.6	8.2	7.8	7.6
CA	35.7	43.5	43.4	35.7	43.5	43.1
CO	73.9	78.0	73.1	73.4	77.8	72.4
DE	4.4	3.7	3.7	4.3	3.6	3.6
FL	33.4	33.8	36.1	30.0	33.0	34.4
ID	350.0	375.0	360.0	348.0	373.0	358.0
IL	5.5	6.5	6.5	5.3	6.4	6.1
IN	3.1	2.9	3.8	2.9	2.8	3.7
KS	2.5	3.0	2.8	2.4	2.9	2.7
ME	62.0	64.0	66.0	62.0	64.0	65.5
MD	4.8	4.8	4.7	4.7	4.7	4.6
MA	2.9	3.3	3.0	2.8	3.2	2.8
MI	46.0	46.5	46.0	45.0	45.5	45.5
MN	59.0	61.0	60.0	55.0	55.0	58.0
MO	6.2	7.0	8.0	5.6	5.4	7.1
MT	10.5	10.5	10.7	10.3	10.4	10.6
NE	22.5	22.0	23.5	22.4	21.8	23.2
NV	6.5	7.6	8.3	6.5	7.6	8.0
NJ	2.5	2.6	2.8	2.5	2.6	2.7
NM	6.4	6.5	5.9	6.4	6.3	5.9
NY	23.5	22.5	22.2	23.3	22.0	21.7
NC	19.5	21.5	19.0	18.5	21.0	17.0
ND	118.0	118.0	117.0	110.0	102.0	112.0
OH	4.4	4.3	4.5	4.3	4.2	4.3
OR	45.0	50.0	42.8	44.5	49.8	42.6
PA	14.0	15.0	14.5	13.5	14.0	13.5
RI	0.5	0.5	0.6	0.5	0.5	0.5
SD	2.8	1.1	1.0	2.7	1.1	1.0
TX	18.0	21.3	22.0	17.0	20.3	20.9
UT	1.3	0.8	1.0	1.3	0.8	1.0
VA	6.5	6.5	7.0	6.3	6.3	6.2
WA	160.0	165.0	163.0	160.0	165.0	162.0
WI	84.0	85.0	81.0	83.0	83.0	80.0
US	1,247.7	1,304.6	1,275.0	1,222.2	1,270.3	1,250.3

**Potatoes: Yield and Production by State  
and United States, 2001-2003**

State	Yield <sup>1</sup>			Production		
	2001	2002	2003	2001	2002	2003
	<i>Cwt</i>	<i>Cwt</i>	<i>Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
AL	160	185	185	624	555	389
AZ	270	270	275	2,214	2,106	2,090
CA	367	391	402	13,099	17,017	17,319
CO	318	388	362	23,373	30,153	26,198
DE	270	260	240	1,161	936	864
FL	310	293	273	9,295	9,659	9,400
ID	345	358	344	120,200	133,385	123,180
IL	350	310	360	1,855	1,984	2,196
IN	320	260	250	928	728	925
KS	300	340	380	720	986	1,026
ME	265	265	260	16,430	16,960	17,030
MD	250	250	240	1,175	1,175	1,104
MA	265	255	275	742	816	770
MI	310	305	330	13,950	13,878	15,015
MN	335	340	385	18,425	18,700	22,330
MO	340	240	265	1,904	1,296	1,882
MT	320	310	315	3,296	3,224	3,339
NE	375	395	425	8,400	8,611	9,860
NV	360	350	415	2,340	2,660	3,320
NJ	255	275	260	638	715	702
NM	343	371	361	2,198	2,336	2,132
NY	255	250	300	5,942	5,500	6,510
NC	190	170	175	3,515	3,570	2,975
ND	240	230	245	26,400	23,460	27,440
OH	255	215	300	1,097	903	1,290
OR	466	501	493	20,730	24,936	20,991
PA	235	185	290	3,173	2,590	3,915
RI	280	235	300	140	118	150
SD	240	300	340	648	330	340
TX	305	264	312	5,190	5,360	6,528
UT	265	305	335	345	244	335
VA	220	220	250	1,386	1,386	1,550
WA	590	560	575	94,400	92,400	93,150
WI	385	375	410	31,955	31,125	32,800
US	358	362	367	437,888	459,802	459,045

<sup>1</sup> Derived

**Sweet Potatoes: Area Planted and Harvested, Yield,  
and Production by State and United States, 2001-2003**

State	Area Planted			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>					
AL	3.0	2.9	2.8	2.9	2.7	2.6
CA	10.0	10.4	10.4	10.0	10.4	10.4
GA <sup>1</sup>	0.5			0.4		
LA	24.0	21.0	19.0	22.0	15.0	18.0
MS	16.7	16.0	14.0	16.0	12.3	13.6
NJ	1.2	1.2	1.1	1.2	1.2	1.1
NC	37.0	40.0	43.0	36.0	37.0	42.0
SC	2.0	1.7	1.4	1.6	1.1	1.0
TX	4.2	3.5	3.4	3.8	3.3	3.2
VA	0.5	0.5	0.5	0.5	0.5	0.5
US	99.1	97.2	95.6	94.4	83.5	92.4
	Yield			Production		
	2001	2002	2003	2001	2002	2003
	<i>Cwt</i>	<i>Cwt</i>	<i>Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>	<i>1,000 Cwt</i>
AL	170	180	190	493	486	494
CA	230	265	300	2,300	2,756	3,120
GA <sup>1</sup>	100			40		
LA	140	125	175	3,080	1,875	3,150
MS	150	160	175	2,400	1,968	2,380
NJ	105	125	115	126	150	127
NC	155	130	140	5,580	4,810	5,880
SC	80	110	150	128	121	150
TX	100	180	160	380	594	512
VA	220	210	215	110	105	108
US	155	154	172	14,637	12,865	15,921

<sup>1</sup> Estimates discontinued in 2002.

**Mint Oil: Area Harvested, Yield and Production  
by Crop, State, and United States, 2001-2003**

Crop and State	Area Harvested			Yield		
	2001	2002	2003	2001	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
Peppermint						
ID	14.0	17.0	14.0	92	90	95
IN	9.8	9.0	11.0	50	46	45
MI	1.0	1.0	1.1	50	50	40
OR	26.0	24.0	25.0	84	88	95
WA	21.5	24.0	24.5	94	100	103
WI	6.2	5.2	2.6	50	60	60
US	78.5	80.2	78.2	81	85	89
Spearmint						
ID	0.9	0.8	0.7	105	110	120
IN	2.0	2.0	1.8	48	42	42
MI	1.7	1.7	1.6	50	50	40
OR	1.1	1.4	1.2	120	85	105
WA	10.6	9.9	9.2	140	146	146
WI	3.2	2.2	1.3	50	55	65
US	19.5	18.0	15.8	105	108	113
	<b>Production</b>					
	<b>2001</b>		<b>2002</b>		<b>2003</b>	
	<i>1,000 Pounds</i>		<i>1,000 Pounds</i>		<i>1,000 Pounds</i>	
Peppermint						
ID		1,288		1,530		1,330
IN		490		414		495
MI		50		50		44
OR		2,184		2,112		2,375
WA		2,021		2,400		2,524
WI		310		312		156
US		6,343		6,818		6,924
Spearmint						
ID		95		88		84
IN		96		84		76
MI		85		85		64
OR		132		119		126
WA		1,484		1,445		1,343
WI		160		121		85
US		2,052		1,942		1,778

**Hops: Area Harvested and Yield by Variety,  
State, and United States, 2001-2003**

State and Variety	Area Harvested			Yield		
	2001	2002	2003	2001	2002	2003
	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
<b>ID</b>						
Chinook	120			1,627		
Cluster	234			1,553		
Galena	552			1,492		
Mt. Hood	32			1,200		
Nugget	54			1,500		
Willamette	215			1,077		
Zeus	477			1,872		
Other Varieties	1,785			1,111		
Total <sup>1</sup>	3,469	3,399	3,429	1,329	1,624	1,536
<b>OR</b>						
Cascade	-	217	-	-	1,477	-
Glacier	*	-	245	*	-	677
Golding	-	-	95	-	-	996
Liberty	-	36	-	-	1,467	-
Millenium	117	421	-	2,570	1,501	-
Mt. Hood	257	243	217	1,970	1,729	1,569
Nugget	2,268	1,967	1,529	2,445	2,032	2,169
Perle	491	452	450	1,355	1,163	1,026
Sterling	91	86	84	2,065	1,895	2,005
Willamette	2,434	1,912	2,224	1,423	1,528	1,369
Other Varieties	445	243	904	1,740	1,669	1,942
Total	6,103	5,577	5,748	1,875	1,692	1,626
<b>WA</b>						
Cascade	1,003	1,216	2,120	1,785	1,748	1,808
Chelan	317	295	180	1,809	2,211	2,545
Chinook	535	422	453	1,717	1,902	1,903
Cluster	534	480	430	1,958	1,996	2,003
Columbus/Tomahawk	4,915	3,663	2,738	2,493	2,876	2,745
Galena	4,375	3,239	2,856	1,679	1,905	1,914
Golding	45	26	22	1,231	1,188	1,118
Hallertauer	76	76	53	968	1,193	885
Horizon	339	337	135	1,224	1,409	1,430
Magnum	42	-	-	1,424	-	-
Millenium	1,382	1,455	1,386	2,037	2,349	2,267
Mt. Hood	333	107	32	1,130	1,272	1,475
Northern Brewer	97	97	65	1,284	1,992	1,755
Nugget	4,109	1,288	918	1,968	2,095	1,882
Perle	209	124	104	1,083	969	919
Tettnanger	60	48	-	1,058	1,277	-
Tillicum	369	194	194	1,836	2,075	2,325
Vanguard	54	-	-	1,372	-	-
Willamette	3,571	3,639	3,645	1,309	1,381	1,332
YCR-5(Warrior-™)	1,370	988	1,242	1,949	2,125	2,126
Zeus	2,186	2,265	2,333	2,669	2,993	2,904
Other Varieties	418	374	586	1,499	1,618	1,436
Total	26,339	20,333	19,492	1,928	2,133	2,050
<b>US</b>	35,911	29,309	28,669	1,861	1,990	1,903

<sup>1</sup> Beginning with the 2002 crop, only State totals are published for Idaho to avoid disclosure of individual operations.

- Included in "Other Varieties" to avoid disclosure of individual operations.

\* Unknown or none.

**Hops: Production by Variety, State,  
and United States, 2001-2003**

State and Variety	Production		
	2001 <i>1,000 Pounds</i>	2002 <i>1,000 Pounds</i>	2003 <i>1,000 Pounds</i>
<b>ID</b>			
Chinook	195.2		
Cluster	363.4		
Galena	823.5		
Mt. Hood	38.4		
Nugget	81.0		
Willamette	231.5		
Zeus	893.0		
Other Varieties	1,983.3		
Total <sup>1</sup>	4,609.3	5,519.6	5,266.3
<b>OR</b>			
Cascade	-	320.5	-
Glacier	-	-	165.8
Golding	-	-	94.6
Liberty	-	52.8	-
Millenium	300.7	631.9	-
Mt. Hood	506.3	420.1	340.4
Nugget	5,545.3	3,996.9	3,316.4
Perle	665.3	525.7	461.8
Sterling	187.9	163.0	168.4
Willamette	3,463.6	2,921.5	3,045.0
Other Varieties	774.1	405.6	1,755.2
Total	11,443.2	9,438.0	9,347.6
<b>WA</b>			
Cascade	1,790.4	2,125.6	3,833.0
Chelan	573.5	652.2	458.1
Chinook	918.6	802.6	862.1
Cluster	1,045.6	958.1	861.3
Columbus/Tomahawk	12,253.1	10,534.8	7,515.8
Galena	7,345.6	6,170.3	5,466.4
Golding	55.4	30.9	24.6
Hallertauer	73.6	90.7	46.9
Horizon	414.9	474.8	193.1
Magnum	59.8	-	-
Millenium	2,815.1	3,417.8	3,142.1
Mt. Hood	376.3	136.1	47.2
Northern Brewer	124.5	193.2	114.1
Nugget	8,086.5	2,698.4	1,727.7
Perle	226.3	120.2	95.6
Tettnanger	63.5	61.3	-
Tillicum	677.5	402.6	451.1
Vanguard	74.1	-	-
Willamette	4,674.4	5,025.5	4,855.1
YCR-5(Warrior-™)	2,670.1	2,099.5	2,640.5
Zeus	5,834.4	6,779.1	6,775.0
Other Varieties	626.4	605.3	841.5
Total	50,779.6	43,379.0	39,951.2
<b>US</b>	66,832.1	58,336.6	54,565.1

<sup>1</sup> Beginning with the 2002 crop, only State totals are published for Idaho to avoid disclosure of individual operations.

- Included in "Other Varieties" to avoid disclosure of individual operations.

\* Unknown or none.

**Maple Syrup: Production by State  
and United States, 2001-2003**

State	2001	2002	2003
	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>	<i>1,000 Gallons</i>
CT	9	8	8
ME	200	230	265
MA	34	45	35
MI	60	66	59
NH	45	75	57
NY	193	260	210
OH	96	75	51
PA	69	55	48
VT	275	500	430
WI	68	79	76
US	1,049	1,393	1,239

**Coffee: Area Harvested, Yield, and Production,  
Hawaii, 2001-2003**

State	Area Harvested			Yield			Production <sup>1</sup>		
	2001-02	2002-03	2003-04	2001-02	2002-03	2003-04	2001-02	2002-03	2003-04
	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
HI	6,300	5,900	5,900	1,270	1,270	1,470	8,000	7,500	8,700

<sup>1</sup> Parchment basis.

**Taro: Area Harvested, Yield, and Production,  
Hawaii, 2001-2003**

State	Area Harvested			Yield			Production		
	2001	2002	2003	2001	2002	2003	2001	2002	2003
	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
HI	440	430	420				6,400	6,100	5,000

<sup>1</sup> Area is total acres in crop, not harvested acreage. Yield is not estimated.

**Ginger Root: Area Harvested, Yield, and Production,  
Hawaii, 2001-2003**

State	Area Harvested			Yield			Production		
	2000-01	2001-02	2002-03	2000-01	2001-02	2002-03	2000-01	2001-02	2002-03
	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>	<i>1,000 Pounds</i>
HI	360	320	160	50,000	45,000	37,500	18,000	14,400	6,000

**Alaska: Area Planted and Harvested, Yield,  
and Production, 2001-2003**

State	Area Planted for All Purposes			Area Harvested		
	2001	2002	2003	2001	2002	2003
	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>
Oats	4,000	2,900	2,700	1,200	1,200	1,200
Barley	5,800	4,000	4,000	5,100	3,600	3,500
All Hay				23,000	22,000	22,000
Potatoes	930	910	930	910	850	800
	Yield			Production		
	2001	2002	2003	2001	2002	2003
Oats, Bu	50.8	40.0	28.3	61,000	48,000	34,000
Barley, "	40.8	43.9	38.6	208,000	158,000	135,000
All Hay, Tons	1.30	1.18	1.32	30,000	26,000	29,000
Potatoes, Cwt	253	181	210	230,000	154,000	168,000

**Crop Summary: Area Planted and Harvested, United States, 2002-2003**  
(Domestic Units)<sup>1</sup>

Crop	Area Planted		Area Harvested	
	2002	2003	2002	2003
	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>	<i>1,000 Acres</i>
Grains & Hay				
Barley	5,071.0	5,299.0	4,129.0	4,688.0
Corn for Grain <sup>2</sup>	79,054.0	78,736.0	69,313.0	71,139.0
Corn for Silage			7,490.0	6,528.0
Hay, All			64,497.0	63,342.0
Alfalfa			23,135.0	23,578.0
All Other			41,362.0	39,764.0
Oats	4,995.0	4,601.0	2,093.0	2,224.0
Proso Millet	450.0	730.0	720.0	620.0
Rice	3,240.0	3,022.0	3,207.0	2,997.0
Rye	1,395.0	1,368.0	281.0	339.0
Sorghum for Grain <sup>2</sup>	9,580.0	9,420.0	7,299.0	7,798.0
Sorghum for Silage			352.0	343.0
Wheat, All	60,468.0	61,700.0	45,917.0	52,839.0
Winter	41,845.0	44,945.0	29,751.0	36,541.0
Durum	2,909.0	2,915.0	2,703.0	2,869.0
Other Spring	15,714.0	13,840.0	13,463.0	13,429.0
Oilseeds				
Canola	1,459.0	1,082.0	1,275.0	1,068.0
Cottonseed				
Flaxseed	785.0	595.0	704.0	583.0
Mustard Seed	191.0	110.0	175.0	107.0
Peanuts	1,358.0	1,344.0	1,296.7	1,312.0
Rapeseed	3.4	1.3	3.1	1.2
Safflower	219.0	221.0	196.0	212.0
Soybeans for Beans	73,923.0	73,404.0	72,437.0	72,321.0
Sunflower	2,580.0	2,344.0	2,180.0	2,197.0
Cotton, Tobacco & Sugar Crops				
Cotton, All	13,957.9	13,483.1	12,426.6	12,058.0
Upland	13,714.0	13,304.0	12,184.0	11,880.0
Amer-Pima	243.9	179.1	242.6	178.0
Sugarbeets	1,427.3	1,365.4	1,361.1	1,347.9
Sugarcane			1,023.2	996.8
Tobacco			428.7	416.2
Dry Beans, Peas & Lentils				
Austrian Winter Peas	21.5	21.1	11.6	15.6
Dry Edible Beans	1,922.1	1,406.1	1,726.9	1,346.9
Dry Edible Peas	302.7	337.5	279.7	328.5
Lentils	221.0	246.0	209.0	237.0
Wrinkled Seed Peas				
Potatoes & Misc.				
Coffee (HI)			5.9	5.9
Ginger Root (HI)			0.3	0.2
Hops			29.3	28.7
Peppermint Oil			80.2	78.2
Potatoes, All	1,304.6	1,275.0	1,270.3	1,250.3
Winter	15.8	14.6	15.7	14.3
Spring	87.8	88.6	86.1	84.7
Summer	62.2	64.2	59.1	59.3
Fall	1,138.8	1,107.6	1,109.4	1,092.0
Spearmint Oil			18.0	15.8
Sweet Potatoes	97.2	95.6	83.5	92.4
Taro (HI) <sup>3</sup>			0.4	0.4

<sup>1</sup> Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2003 crop year.

<sup>2</sup> Area planted for all purposes.

<sup>3</sup> Acreage is total acres in crop, not harvested acreage.

**Crop Summary: Yield and Production, United States, 2002-2003**  
(Domestic Units)<sup>1</sup>

Crop	Unit	Yield		Production	
		2002	2003	2002	2003
				<i>1,000</i>	<i>1,000</i>
<b>Grains &amp; Hay</b>					
Barley	Bu	54.9	58.9	226,573	276,087
Corn for Grain	"	130.0	142.2	9,007,659	10,113,887
Corn for Silage	Ton	14.0	16.2	104,979	105,864
Hay, All	"	2.34	2.48	150,962	157,123
Alfalfa	"	3.19	3.24	73,824	76,307
All Other	"	1.86	2.03	77,138	80,816
Oats	Bu	56.7	65.0	118,628	144,649
Proso Millet	"	12.5	18.5	2,755	11,450
Rice <sup>2</sup>	Cwt	6,578	6,645	210,960	199,157
Rye	Bu	24.8	27.3	6,955	9,254
Sorghum for Grain	"	50.7	52.7	369,758	411,237
Sorghum for Silage	Ton	9.5	10.4	3,360	3,552
Wheat, All	Bu	35.3	44.2	1,619,001	2,336,526
Winter	"	38.5	46.7	1,145,602	1,707,069
Durum	"	29.4	33.7	79,450	96,637
Other Spring	"	29.3	39.7	393,949	532,820
<b>Oilseeds</b>					
Canola	Lb	1,218	1,416	1,552,520	1,512,250
Cottonseed <sup>3</sup>	Ton			6,183.9	6,694.0
Flaxseed	Bu	17.9	17.9	12,569	10,426
Mustard Seed	Lb	705	723	123,450	77,372
Peanuts	"	2,561	3,159	3,320,490	4,144,150
Rapeseed	"	1,461	949	4,530	1,139
Safflower	"	1,520	1,286	297,980	272,555
Soybeans for Beans	Bu	38.0	33.4	2,749,340	2,417,565
Sunflower	Lb	1,142	1,213	2,489,606	2,665,226
<b>Cotton, Tobacco &amp; Sugar Crops</b>					
Cotton, All <sup>2</sup>	Bale	665	725	17,208.6	18,224.0
Upland <sup>2</sup>	"	651	719	16,530.3	17,795.0
Amer-Pima <sup>2</sup>	"	1,342	1,157	678.3	429.0
Sugarbeets	Ton	20.4	22.7	27,718	30,605
Sugarcane	"	34.7	34.5	35,553	34,368
Tobacco	Lb	2,049	1,997	878,592	831,204
<b>Dry Beans, Peas &amp; Lentils</b>					
Austrian Winter Peas <sup>2</sup>	Cwt	1,414	1,115	164	174
Dry Edible Beans <sup>2</sup>	"	1,736	1,672	29,974	22,515
Dry Edible Peas <sup>2</sup>	"	1,517	1,584	4,242	5,202
Lentils <sup>2</sup>	"	1,200	1,030	2,508	2,442
Wrinkled Seed Peas <sup>3</sup>	"			599	673
<b>Potatoes &amp; Misc.</b>					
Coffee (HI)	Lb	1,270	1,470	7,500	8,700
Ginger Root (HI)	"	45,000	37,500	14,400	6,000
Hops	"	1,990	1,903	58,336.6	54,565.1
Peppermint Oil	"	85	89	6,818	6,924
Potatoes, All	Cwt	362	367	459,802	459,045
Winter	"	268	282	4,206	4,027
Spring	"	271	288	23,294	24,433
Summer	"	304	324	17,985	19,199
Fall	"	373	377	414,317	411,386
Spearmint Oil	Lb	108	113	1,942	1,778
Sweet Potatoes	Cwt	154	172	12,865	15,921
Taro (HI) <sup>3</sup>	Lb			6,100	5,000

<sup>1</sup> Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2003 crop year.

<sup>2</sup> Yield in pounds.

<sup>3</sup> Yield is not estimated.

**Crop Summary: Area Planted and Harvested, United States, 2002-2003**  
(Metric Units)<sup>1</sup>

Crop	Area Planted		Area Harvested	
	2002	2003	2002	2003
	<i>Hectares</i>	<i>Hectares</i>	<i>Hectares</i>	<i>Hectares</i>
<b>Grains &amp; Hay</b>				
Barley	2,052,180	2,144,450	1,670,970	1,897,190
Corn for Grain <sup>2</sup>	31,992,360	31,863,670	28,050,280	28,789,240
Corn for Silage			3,031,130	2,641,820
Hay, All <sup>3</sup>			26,101,290	25,633,870
Alfalfa			9,362,500	9,541,780
All Other			16,738,790	16,092,090
Oats	2,021,430	1,861,980	847,020	900,030
Proso Millet	182,110	295,420	89,030	250,910
Rice	1,311,200	1,222,970	1,297,840	1,212,860
Rye	564,540	553,620	113,720	137,190
Sorghum for Grain <sup>2</sup>	3,876,930	3,812,180	2,953,830	3,155,770
Sorghum for Silage			142,450	138,810
Wheat, All <sup>3</sup>	24,470,790	24,969,370	18,582,150	21,383,410
Winter	16,934,250	18,188,790	12,039,930	14,787,780
Durum	1,177,240	1,179,670	1,093,880	1,161,060
Other Spring	6,359,300	5,600,910	5,448,340	5,434,580
<b>Oilseeds</b>				
Canola	590,440	437,870	515,980	432,210
Cottonseed				
Flaxseed	317,680	240,790	284,900	235,930
Mustard Seed	77,300	44,520	70,820	43,300
Peanuts	549,570	543,900	524,760	530,950
Rapeseed	1,380	530	1,250	490
Safflower	88,630	89,440	79,320	85,790
Soybeans for Beans	29,915,900	29,705,860	29,314,530	29,267,590
Sunflower	1,044,100	948,590	882,220	889,100
<b>Cotton, Tobacco &amp; Sugar Crops</b>				
Cotton, All <sup>3</sup>	5,648,620	5,456,480	5,028,920	4,879,750
Upland	5,549,920	5,384,000	4,930,740	4,807,720
Amer-Pima	98,700	72,480	98,180	72,030
Sugarbeets	577,610	552,560	550,820	545,480
Sugarcane			414,080	403,390
Tobacco			173,490	168,440
<b>Dry Beans, Peas &amp; Lentils</b>				
Austrian Winter Peas	8,700	8,540	4,690	6,310
Dry Edible Beans	777,850	569,030	698,860	545,080
Dry Edible Peas	122,500	136,580	113,190	132,940
Lentils	89,440	99,550	84,580	95,910
Wrinkled Seed Peas				
<b>Potatoes &amp; Misc.</b>				
Coffee (HI)			2,390	2,390
Ginger Root (HI)			130	60
Hops			11,860	11,600
Peppermint Oil			32,460	31,650
Potatoes, All <sup>3</sup>	527,960	515,980	514,080	505,980
Winter	6,390	5,910	6,350	5,790
Spring	35,530	35,860	34,840	34,280
Summer	25,170	25,980	23,920	24,000
Fall	460,860	448,230	448,960	441,920
Spearmint Oil			7,280	6,390
Sweet Potatoes	39,340	38,690	33,790	37,390
Taro (HI) <sup>4</sup>			170	170

<sup>1</sup> Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2003 crop year.

<sup>2</sup> Area planted for all purposes.

<sup>3</sup> Total may not add due to rounding.

<sup>4</sup> Area is total hectares in crop, not harvested hectares.

**Crop Summary: Yield and Production, United States, 2002-2003**  
(Metric Units)<sup>1</sup>

Crop	Yield		Production	
	2002	2003	2002	2003
	<i>Metric Tons</i>	<i>Metric Tons</i>	<i>Metric Tons</i>	<i>Metric Tons</i>
<b>Grains &amp; Hay</b>				
Barley	3.44	3.17	4,933,040	6,011,080
Corn for Grain	8.16	8.92	228,805,080	256,904,560
Corn for Silage	31.42	36.35	95,235,350	96,038,210
Hay, All <sup>2</sup>	5.25	5.56	136,950,420	142,539,590
Alfalfa	7.15	7.25	66,972,010	69,224,550
All Other	4.18	4.56	69,978,420	73,315,040
Oats	2.03	2.33	1,721,880	2,099,570
Proso Millet	0.70	1.03	62,480	259,680
Rice	7.37	7.45	9,568,990	9,033,610
Rye	1.55	1.71	176,670	235,060
Sorghum for Grain	3.18	3.31	9,392,290	10,445,900
Sorghum for Silage	21.40	23.21	3,048,140	3,222,320
Wheat, All <sup>2</sup>	2.37	2.97	44,061,990	63,589,820
Winter	2.59	3.14	31,178,180	46,458,800
Durum	1.98	2.27	2,162,270	2,630,030
Other Spring	1.97	2.67	10,721,530	14,500,980
<b>Oilseeds</b>				
Canola	1.36	1.59	704,210	685,950
Cottonseed <sup>3</sup>			5,609,940	6,072,690
Flaxseed	1.12	1.12	319,270	264,830
Mustard Seed	0.79	0.81	56,000	35,100
Peanuts	2.87	3.54	1,506,150	1,879,750
Rapeseed	1.64	1.06	2,050	520
Safflower	1.70	1.44	135,160	123,630
Soybeans for Beans	2.55	2.25	74,824,770	65,795,340
Sunflower	1.28	1.36	1,129,270	1,208,930
<b>Cotton, Tobacco &amp; Sugar Crops</b>				
Cotton, All <sup>2</sup>	0.75	0.81	3,746,730	3,967,810
Upland	0.73	0.81	3,599,050	3,874,400
Amer-Pima	1.50	1.30	147,680	93,400
Sugarbeets	45.65	50.90	25,145,350	27,764,390
Sugarcane	77.89	77.29	32,253,140	31,178,130
Tobacco	2.30	2.24	398,520	377,030
<b>Dry Beans, Peas &amp; Lentils</b>				
Austrian Winter Peas	1.58	1.25	7,440	7,890
Dry Edible Beans	1.95	1.87	1,359,600	1,021,260
Dry Edible Peas	1.70	1.77	192,410	235,960
Lentils	1.35	1.15	113,760	110,770
Wrinkled Seed Peas <sup>3</sup>			27,170	30,530
<b>Potatoes &amp; Misc.</b>				
Coffee (HI)	1.42	1.65	3,400	3,950
Ginger Root (HI)	50.44	42.03	6,530	2,720
Hops	2.23	2.13	26,460	24,750
Peppermint Oil	0.10	0.10	3,090	3,140
Potatoes, All <sup>2</sup>	40.57	41.15	20,856,270	20,821,930
Winter	30.03	31.56	190,780	182,660
Spring	30.32	32.33	1,056,600	1,108,260
Summer	34.11	36.29	815,790	870,850
Fall	41.86	42.23	18,793,100	18,660,160
Spearmint Oil	0.12	0.13	880	810
Sweet Potatoes	17.27	19.31	583,550	722,160
Taro (HI) <sup>3</sup>			2,770	2,270

<sup>1</sup> Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2003 crop year.

<sup>2</sup> Production may not add due to rounding.

<sup>3</sup> Yield is not estimated.

## 2003 U.S. Weather Summary

**Highlights:** During 2003, abnormal wetness persisted across the East, while heat and dryness covered much of the West and parts of the Plains and upper Midwest. The summer growing season in the Midwest featured a sharp transition between dry conditions west of Illinois and wet conditions east of Illinois. The year saw historic snowstorms in the mid-Atlantic states and the Rockies' front range in February and March, a record spell of violent weather during May, extreme heat in July across the West, and a number of tropical storms or hurricanes.

**Winter (December 2002 - February 2003):** In contrast to the year before, the 2002-03 winter was unusually cold and snowy over the eastern third of the country. High pressure tended to cover the central or western parts of the nation, while low pressure persisted over the eastern one-third of the country. This resulted in a cold and stormy pattern for the East.

Although the eastern one-third of the country endured temperatures averaging 4 to 8°F below normal during January, readings were much warmer farther west, averaging 4 to 10°F above normal from the High Plains to the Pacific Coast.

Nevada, Utah, Arizona and Colorado recorded their warmest January since records began in 1895. It was also abnormally dry this month, as precipitation totaled less than 25% of normal from the Southwest into the Plains. For the first time since 1976, Los Angeles was completely dry in January.

Winter spread its impacts over a larger portion of the country the following month, as nearly the entire country was cold in February, and a much wetter pattern also took hold, with much of the Southwest and the Rockies recording twice the normal rain and snow.

Contributing to the ample February and winter precipitation totals was the historic snowstorm that crossed the nation mid-month and ended up giving the mid-Atlantic region its greatest snowfall since the January 1996 "storm of the century." The weather system brought rain and wind to southern California on February 11-13; rain, snow, and ice to the Midwest on the 14th; and huge snows to the mid-Atlantic and southern New England states during the 15th to 17th. Generally 15 to 25 inches buried the I-95 corridor from Washington to Boston, with a few totals reaching 30 inches. Baltimore's unofficial total of 28.2 inches during February 15-18 set a new single-storm record.

Most of the storms this winter missed the Great Lakes and upper Midwest region, resulting in a snow drought for that part of the country. Michigan and Minnesota ended up with their fifth driest winter (Dec-Feb) on record, and Wisconsin measured its second driest winter.

The Northeast experienced its coldest winter since 1993-94 and its second coldest winter since 1978-79. Both Boston and Baltimore recorded their snowiest month ever in February, measuring 41.6 and 40.5 inches, respectively.

In contrast to the eastern cold, Alaska's interior was unusually mild this winter. In Fairbanks, October through February was the mildest such period in the city's 98-year period of record, averaging 12.5°F above zero.

**Spring (March – May):** March's above-normal rain and snow across the Rockies and Northwest eased long-term drought. A major contributor to the ample precipitation totals in Colorado and Wyoming was the historic snowstorm that crossed the region on March 17-19. Denver ended up with 31.8 inches of snow, its greatest storm total since 1913. Accumulations exceeded 60 inches in the foothills to the west, with one mountain hamlet west of Denver measuring 87.5 inches. Although the Blizzard of 2003 left thousands of people without power and stranded many travelers, the moisture broke a drought that was threatening to bring major water shortages to the area.

Heavy snows blanketed the Sierra Nevada in April, with monthly totals as high as 124 inches. Late-season snows also covered portions of the central states. Grand Island, Nebraska, picked up 7.3 inches on the sixth. But spring finally arrived, and an early heat wave set or tied some 150 records during April 9-15 in the central and western states, as Bismarck, North Dakota, recorded its earliest 90-degree reading ever on April 13.

The circulation setup was primed for severe weather in the central states from late April into early May as a strong southwesterly jet crossed the critical region. From April 28 to May 11, the country endured its most sustained outbreak of severe thunderstorms on record. More than 450 reports of tornadoes occurred along with some 1,200 reports of damaging winds and 2,800 reports of large hail. The national total of 516 tornadoes for May easily set an all-time record for any month. On May 4 alone, twisters took 36 lives in Kansas, Missouri, and Tennessee.

The eastern one-third of the country experienced persistent cool, cloudy, and wet weather this spring. By mid-June, rivers from New England to Georgia were near record-high levels for the time of the year. Sporadic flooding took place from the Mississippi Valley to the mid-Atlantic region, including the states of Ohio, West Virginia, Georgia, North Carolina, and Arkansas. Three states, Virginia, North Carolina, and South Carolina, measured their wettest spring in 109 years of record keeping as rainfall exceeded 150% of normal from southern Virginia into Georgia.

The West stayed hot while the East was cool. Salt Lake City, Utah, set a May record with a reading of 99°F on May 28. Phoenix, Arizona, began a string of 100-degree days on May 19 that continued through June 10. Lander, Wyoming's reading of 93°F on May 20 set a new monthly heat record.

**Summer (June – August):** High temperatures during the summer and late spring aggravated long-term drought in the Inter-Mountain region as well as parts of the Plains states.

Similar to July of 2002, a large dome of high pressure aloft dominated the western half of the nation during July 2003. This resulted in a second consecutive year of numerous heat records across the Plains and the West. The

heat focused on the central and northern Plains on July 1-3, as Williston, North Dakota, reached 98° F on the 1st. Readings climbed as high as 105°F in Nebraska and 109°F in Kansas on July 3. In Colorado, Pueblo set an all-time high of 109°F on July 13. In Salt Lake City, July 24 marked the tenth consecutive day of triple digit heat. In Idaho, Boise counted nine consecutive days of 100-degree temperatures this month. This was the hottest July on record across both the Northwest and the Southwest, and also the driest July in the Southwest. Six states, Arizona, New Mexico, Utah, Colorado, Idaho, and Wyoming, measured their hottest July ever.

July rainfall, less than one-fourth of normal, resulted in low soil moisture levels returning to the central Plains from southern Nebraska into northern Texas following abundant moisture in June. This dryness became very severe as the hot, dry weather persisted into late August, affecting crops and grazing.

In contrast, severe weather accompanied by heavy rains and flooding hit the country east of the Mississippi River during July, continuing the trend from spring. From July 2 to 9, there were some 2,000 reports of severe weather from the Plains to the East Coast. Significant flooding struck both Indiana and Ohio, as Indiana recorded its second wettest July ever.

Dry weather in August rapidly depleted soil moisture in the western Corn Belt, as monthly rainfall deficits reached 2 or more inches from Minnesota and western Wisconsin south across Iowa and into northwestern Illinois and extreme northern Missouri. Some locations reported less than an inch of rain during the month.

Abnormally dry and hot weather persisted this summer in the Northwest, which experienced its second warmest and third driest summer on record, according to preliminary data. Rainfall generally totaled well under 50% of normal during June-August from Washington and Oregon into western Montana.

This was an active tropical storm season, with a total of 16 named storms in the Atlantic basin. Heavy rains from Tropical Storm Bill, which struck Louisiana the last day of June, covered portions of the Southeast during the first day of July. The storm totals contributed to the Southeast recording its wettest May-July since at least 1895. Hurricane Claudette struck the central Texas coast on July 15, with reported wind gusts up to 104 mph. Tropical Storm Grace crossed the Texas coast as a depression on August 31 and traveled northward. Her rains enhanced the moisture from a frontal system moving across the central Plains. The resulting pre- and post-Grace rains of 2-10 inches on August 30-31 caused some flooding but also relieved drought in Oklahoma, central and eastern Kansas, and western Missouri.

Autumn (September – November): Hurricane Isabel struck the outer banks of North Carolina on September 18 as a Category 2 storm. Reported wind gusts near 100 mph and storm surges of 5 to 10 feet damaged many homes on the Outer Banks. The track of the storm into interior sections of North Carolina, Virginia, and Pennsylvania resulted in considerable tree and powerline damage, leaving millions of homes and businesses without power.

In October, heat once again hit the West, further aggravating long-term drought and increasing fire danger. From October 18 to 23, there were at least 100 daily high temperature records set. In Phoenix, thermometers reached triple digits on each day from October 17 to 23. Las Vegas' monthly temperature departure of 6.7°F above normal established a new October record.

High pressure during late October over the Great Basin resulted in a severe episode of Santa Ana winds in southern California. Fifteen large wildfires burned more than 750,000 acres and destroyed 4,500 buildings, including 3,640 homes. Rain and cooler weather during early November allowed firefighters to finally gain the upper hand.

Widespread mountain snows starting in late October in many western mountain areas raised hopes that the 2003-04 snow season could finally ease the long-standing drought in the Rockies and Inter-Mountain region. As the winter snows began to fall, the U.S. Drought Monitor was flagging D2 to D4 drought (moderate to exceptional) in parts of every western state. Reservoir storage was below normal in all the western states except California.

November saw a major change in the circulation pattern, as a deep trough dominated the western one-half of the nation. As a consequence, cold and snow supplanted heat and dryness in western and central areas, with a notable cold wave invading the Rockies and northern Plains early in the month.

November also featured a number of damaging weather episodes, including a fierce wind storm across the Midwest and Northeast on November 12-14; an episode of widespread severe weather during November 17-19 across the South and East, including a tornado in Houston; and, in the eastern Caribbean, a tropical disturbance that dumped torrential rainfall on Puerto Rico and the Virgin Islands.

December: Torrential rains hitting the Hawaiian Islands in late November and early December caused flooding but eliminated drought over most of the archipelago. Rainfall totals reached nearly 20 inches on Oahu.

The winter of 2003-04 got off to a strong start in the Northeast as a major storm during December 4-7 spread heavy snows across the region. Around a foot covered the New York City area, 16 inches blanketed Boston, and 17 inches fell on Providence, Rhode Island.

The December storms raised a number of annual precipitation totals above the 60-inch mark in several eastern cities, making 2003 the wettest year in over a century. The annual precipitation total for Baltimore of 62.66 inches broke a record that had stood since 1889.

In the West, a broad upper level trough delivered widespread snow and rain during the last week of the year. The accumulating mountain snows raised hopes that the 2003-04 winter could make a serious dent in the multi-year drought, but the heavy precipitation caused its own set of immediate problems, including heavy rains on Christmas Day in southern California's San Bernardino County, causing deadly mudslides in areas with burned-off vegetation from the October fires.

## 2003 Annual Crop Summary

April: Rainfall in the southern Corn Belt, Southeast, and Atlantic Coast States slowed planting activities for corn and soybeans. Planting progressed well in the northern Corn Belt, northern Great Plains, and upper Mississippi Valley, where mostly dry conditions prevailed. Corn planting was ahead of the normal pace by month's end in all of the Corn Belt States, except Nebraska. The Pacific Northwest had seasonably heavy rainfall and severe storms were experienced in eastern Texas, Oklahoma, Kansas, Missouri, Arkansas, and Tennessee. In the southern Great Plains, hot, windy weather depleted topsoil moisture. Subsoil moisture remained short in the Rocky Mountains and Great Plains with only some areas receiving significant precipitation. At the end of the month, nationwide planting progress was ahead of normal for corn, spring wheat, barley, oats, sugarbeets, and rice, while planting was behind normal for cotton and peanuts. Progress was normal for soybeans and sorghum.

May: On the West Coast, seasonably heavy rains early in the month gave way to warm, dry weather in the second half of the month. Hot, dry weather in the Rocky Mountains and Southwest increased irrigation demands. After rainfall during the middle of May hindered fieldwork, dry conditions and warm temperatures after mid-month in the Corn Belt and Great Plains promoted planting, emergence, and development of crops. Wet conditions in the Ohio Valley, upper Mississippi Delta, Southeast, and Atlantic Coast States caused delays in fieldwork. Nationwide, planting and emergence of most crops progressed rapidly late in the month after earlier weather-related delays. Soybean producers in Kansas, Michigan, Nebraska, the Dakotas, and Wisconsin planted 30 percent or more of their crop during the last week of the month. However, planting and emergence of the crop were 3 and 15 percentage points behind normal at month's end, respectively. Cotton planting was also behind normal in most States at the end of the month, although California and Virginia growers had completed planting and Louisiana producers were nearing completion. Planting of corn, sorghum, and rice were behind normal at the end of the month while small grain crops were at or ahead of their normal pace.

June: Average temperatures were above normal west of the Rocky Mountains, while the rest of the Nation had below-normal temperatures. The Gulf Coast, Southeast, and Atlantic Coast had heavy precipitation through the middle of the month, but dried substantially in the last half. In the Great Plains, scattered showers and below-normal temperatures delayed maturation and harvest of winter wheat. Corn emergence was nearly complete by mid-month, but was slightly behind normal. Five percent of the acreage was at or beyond the silking stage, equal to the 5-year average for June. Soybean planting and emergence progressed behind normal throughout the month. The cotton, rice, sorghum, and peanut crops also finished the month behind their normal planting and development progress, while barley, spring wheat, and oats were ahead of normal. Heading and harvesting of winter wheat fell behind the normal pace during the month.

July: In the western half of the Nation, the weather was hot and dry, aiding maturation and harvest of small grains, but stressing summer row crops and increasing irrigation needs. Cool, wet conditions prevailed in the eastern half of the Nation, slowing development but maintaining crop conditions. The corn and soybean crops fell further behind normal development in all areas except the Great Plains, where progress was at or near normal. The cotton crop progressed slowly in the Southeast due to below-normal temperatures. Harvest of the winter wheat crop progressed well in the Pacific Northwest, Rocky Mountains, and Great Plains, and finished the month slightly ahead of normal nationwide, despite slow progress in the Corn Belt. Heading of the barley and spring wheat crops was ahead of normal, and was mostly complete by the end of the month. Heading of the oat and rice crops was ahead of their normal pace, while sorghum heading fell well behind normal. The peanut crop made good progress to finish the month at just 1 percentage point behind the normal pegging pace.

August: Hot, dry weather prevailed across the western half of the Nation throughout the month, promoting crop development and harvest, but causing crop conditions to deteriorate. In the eastern half of the Nation, temperatures were below normal early in the month, but rose to above normal in the last half of the month. Rainfall persisted throughout the month in the Mississippi Delta, Southeast, and Ohio Valley. In the Corn Belt and Atlantic Coast States, rainfall early in the month gave way to drier weather in the second half of the month. The corn and soybean crops developed rapidly during the month due to above normal temperatures in the Great Plains throughout the month and adjacent areas of the Corn Belt after mid-month. However, development of these crops still finished the month behind normal nationwide and the crops were stressed in the Great Plains and Corn Belt by the hot, dry conditions. Boll-setting progress was 1 week behind normal for cotton by the end of the month and the sorghum crop progress fell 1 to 2 weeks behind normal as conditions declined drastically. Small grain producers made rapid harvest progress during the month as dry weather was experienced in most growing areas.

September: The western half of the Nation was mostly dry throughout the month, with normal to above-normal temperatures early in the month giving way to below-normal temperatures in the last half of the month. Just after mid-month, the northern Great Plains and Rocky Mountains had their first freeze of the season. In the Corn Belt, above normal temperatures and moderate to heavy precipitation in the first half of the month turned to drier, cooler conditions after mid-month. The Southeast and Mississippi Delta had adequate rainfall and near normal temperatures throughout the month. In the Ohio Valley, Northeast, and middle Atlantic Coast States, temperatures were below normal in the first half of the month and above normal during the second half. Precipitation was moderate through most of the month, but especially heavy just after mid-month in the wake of Hurricane Isabel. Corn and soybean harvest fell further behind as these crops slowly matured in the Corn Belt and growers in the Great Plains focused on planting winter wheat. Corn condition ended its downward trend in the middle of the month and improved as harvest got underway late in the month, while soybean condition continued to decline. Thirty-six percent of the sorghum crop was harvested by month's end, well behind normal. Sorghum harvest was over 3 weeks behind normal in Texas and 1 to 2 weeks behind the 5-year average in Kansas, Illinois, and Nebraska. Harvest of peanuts and cotton was just getting underway, with frequent rain delays slowing progress.

October: Temperatures were mild across most of the Nation during the month. However, the Corn Belt, northern and central Great Plains, northern and central Rocky Mountains, and New England experienced freezing temperatures before mid-month. By the end of the month, the middle Atlantic Coast States, Ohio Valley, and Pacific Northwest also had freezes, and snow cover was accumulating in the northern areas of the Rocky Mountains

and Great Plains. Precipitation was heavy along the Atlantic Coast, particularly in the Northeast. The Corn Belt, Southeast, and Mississippi Delta had light to moderate precipitation, causing some fieldwork delays. By the end of the month, winter wheat seeding, at 92 percent complete, was slightly ahead of the 5-year average. Although, mostly dry across the western half of the Nation delayed emergence. Early in the month, harvest of the corn crop slowly advanced, while soybean harvest and winter wheat planting progressed rapidly. But as these activities neared completion, growers switched their efforts to harvesting corn and made rapid progress in the last half of the month. The peanut harvest progressed well during the month. By the end of October, the rice, sugarbeet, and sunflower harvests were nearing completion ahead of normal as growers had few delays during the month. Progress of the cotton and sorghum crops fell further behind during the month.

November: Temperatures were above normal in the eastern half of the Nation, though freezes reached as far south as the Gulf Coast. The southern areas of the Great Plains and Rocky Mountains had normal to slightly above-normal temperatures during the month, while the northern-most parts of those regions had well below normal temperatures, averaging below freezing. Precipitation was moderate in the Corn Belt, Northeast, Mississippi Delta, and Southeast, while the southern and middle Atlantic Coast States, Great Plains, and Southwest were mostly dry. Corn harvest advanced to the normal pace nationwide, although the eastern Corn Belt and Ohio Valley remained well behind normal. Soybean harvest was winding down early in the month, slightly ahead of normal. The cotton harvest steadily progressed throughout the month, but remained 1 week behind normal. Winter wheat seeding was nearly complete by the first week of the month, ahead of normal. By the end of the month, emergence of the crop was at or near completion across the Corn Belt and Great Plains, though in some areas, cold weather brought on dormancy before the crop was completely emerged.

**Corn:** Grain production is estimated at 10.1 billion bushels, down 2 percent from the November forecast but up 12 percent from the 9.01 billion bushels produced in 2002. The average U.S. grain yield is estimated at 142.2 bushels per acre, 1.0 bushel below the November forecast but up 12.2 bushels from 2002. Both production and yield estimates are the largest on record. The previous record for both was set in 1994 when production was estimated at slightly below the 10.1 billion bushels being estimated for 2003 and yield was 138.6 bushels per acre. Yields for grain are higher in almost all States east of the Mississippi River as favorable precipitation and temperatures were received during much of the growing season. Hot and dry conditions during August across much of the Corn Belt and central Great Plains did not have much of a negative impact on yields. With the exception of Iowa, Minnesota, and Wisconsin yields in all the Corn Belt States are up from last year. Yields realized in Iowa and Minnesota are down from 2002 record levels. Hot temperatures and mostly dry weather in the western Corn Belt and central Great Plains limited the crop. However, most States in these areas realized yield increases from 2002 as conditions were less severe than last year. One exception is Colorado, where yields are down as more lower yielding non-irrigated acres were harvested for grain compared to last year.

Planted area totaled 78.7 million acres, down fractionally from last year. Corn planted area is either down or unchanged in all but 12 States. Area harvested for grain, at 71.1 million acres, is up 3 percent from the 2002 drought reduced crop. Farmers harvested 6.53 million acres for silage, a 13 percent decrease from last year. The number of acres abandoned this year also decreased to 1.07 million acres, down significantly from the 2.25 million acres abandoned in 2002.

Corn silage production is estimated at 106 million tons, 1 percent above the 2002 level. Silage area decreased due to better growing conditions in many States causing more acres to be harvested for grain and fewer acres cut for silage. The drop in acres was more than offset by an increase in yield with 16.2 tons per acre realized in 2003. This is 2.2 tons above last year's yield of 14.0 tons per acre.

Much needed moisture was received in late April and early May across much of the Corn Belt which helped relieve long-term precipitation deficits, especially in Indiana, Nebraska, Ohio, and parts of Illinois. However, these rains slowed fieldwork and delayed some producers from timely planting the crop, especially in Indiana. Germination and emergence were hampered throughout much of the Corn Belt by excess moisture and cool temperatures. However, warmer and drier weather during the first three weeks of June improved growing conditions.

Hot, dry weather in the western Corn Belt after mid-August promoted development, but all stages continued to lag behind the normal pace. The crop progressed rapidly in the Great Plains, with hot, mostly dry weather throughout the month. However, the heat and dryness caused crop condition in both regions to decline. Crop conditions in the eastern Corn Belt and Tennessee and Ohio Valleys improved during August as favorable moisture and temperatures were experienced, allowing for good crop development. The Southeast experienced moderate to heavy rainfall as mild temperatures through mid-August gave way to above normal temperatures through the end of the month.

The crop was well behind the average denting pace in the Corn Belt by the beginning of September but advanced rapidly and ended the month near the average. In the Ohio Valley, the crop began the month well behind normal progress and development did not accelerate, as the region experienced heavy rainfall through most of the month. Nationwide, maturation and harvest were over 1 week behind the normal pace by month's end. Development and harvest progressed slightly behind the 5-year average in the Great Plains.

Freezing temperatures during the first week of October ended crop growth in the Corn Belt and Ohio Valley. Warm weather during the second week of October accelerated maturation. Harvest progressed rapidly during mid-October, especially in Minnesota and North Dakota. At the beginning of November, harvest progress was slightly ahead of normal in the 18 major corn-producing States. However, States in the Ohio Valley were behind the 5-year average due to late planting in the Spring.

The 2003 corn objective yield data showed a record high ear count per acre for the combined seven objective yield States (Illinois, Indiana, Iowa, Minnesota, Nebraska, Ohio, and Wisconsin). The 2003 ear count is 4 percent above the previous high in 2000 and 6 percent above last year. Ear counts are at record high levels in six of the seven objective yield States. Nebraska's ear count is the third highest on record, below 1999 and 2000.

**Sorghum:** Grain production in 2003 is estimated at 411 million bushels, up 3 percent from the November forecast and 11 percent above 2002. Area harvested for grain is estimated at 7.80 million acres, up 7 percent from 2002. Average grain yield, at 52.7 bushels per acre, is up 1.80 bushels from the previous forecast and 2.0 bushels above the 2002 average yield.

Silage production is estimated at 3.55 million tons, up 6 percent from 2002. Area cut for silage is 343,000 acres, 3 percent less than the previous year. Silage yields averaged 10.4 tons per acre, up 0.9 ton per acre from last year.

Kansas led the Nation in area planted for all purposes, while Texas led the Nation for grain and silage production. Seventeen of the 24 estimating States showed better grain yields than the previous year. Sixteen of the 23 silage estimating States had improved yields over 2002. Record yields for grain were established in Arkansas, Louisiana, and South Carolina. However, drought conditions hindered yield in Kansas and New Mexico.

**Oats:** Production is estimated at 145 million bushels, 4 percent below the August 1 forecast but 22 percent above last year's 119 million bushels. The estimated yield is 65.0 bushels per acre, nearly the same as the August 1 forecast and up 8.3 bushels from a year ago. Record high yields are estimated in Illinois, Iowa, Kansas, Michigan, Missouri, Nebraska, and South Dakota. Harvested area is 2.22 million acres, 5 percent below the August 1 forecast but 6 percent above last year. Compared with the August 1 estimate, area harvested for grain declined 20,000 acres each in Colorado, Iowa, Kansas, Montana, Nebraska, and Wisconsin.

Wet conditions delayed planting during early April in the Corn Belt and Ohio Valley. During mid-April, wet conditions continued in the Ohio Valley, while dryer conditions allowed planting to progress in the Corn Belt. At the end of the month, planting continued at a rapid pace in the Corn Belt and gained momentum in the Ohio and Upper Mississippi Valleys.

In early May, a series of thunderstorms in the Plains, Midwest, and East enhanced soil moisture for the emerging crop, while delaying planting of the late crop in the Ohio Valley. By mid-May, planting was nearing completion in all States except North Dakota, Pennsylvania, and Wisconsin, where planting progressed behind the 5-year average. Below normal temperatures during early June, hindered vegetative growth along the Atlantic Coast.

In July, fields entered the heading stage and matured ahead of normal in all States except Pennsylvania and Wisconsin. By July 21, the oat crop was 97 percent headed, 2 percent below the average for this date. Harvest began around mid-July in all areas except Minnesota, North Dakota, and Wisconsin. Progress was slow during the remainder of the month, with the northern Corn Belts slightly behind average and harvest of the late crop in the Ohio Valley well behind average by month's end. Harvest continued in August with few delays. By the end of the month, harvest in all States except Pennsylvania advanced to near normal levels. On September 2, harvest was 97 percent complete, slightly ahead of the 5-year average of 94 percent.

**Barley:** Production is estimated at 276 million bushels, down 2 percent from the last forecast but up 22 percent from last year's estimate. Average yield per acre, at 58.9 bushels, is up 1.4 bushels from the last forecast and 4.0 bushels above 2002. The area harvested for grain is estimated at 4.69 million acres, 14 percent above a year ago. The increase in production over last year was due to both an increase in harvested area, especially in North Dakota which increased by 740,000 acres, and generally favorable weather across the northern Great Plains and other western barley areas. Arizona, Kansas, and Wyoming achieved record high yields and Minnesota tied its record high yield.

This year's barley crop got an early start in the northern Great Plains as farmers took advantage of favorable weather, while wet, cool conditions slowed planting progress along the Atlantic Coast. Planting progress was ahead of normal through completion of planting. Crop development progressed rapidly in the Great Plains as favorable conditions persisted. In mid-August, harvest progress in the 5 major barley-producing States was 60 percent, well ahead of the normal pace, and crop condition was rated at 55 percent good to excellent, 14 percentage points more than at that time last year. The Minnesota and North Dakota crops had the best condition at 82 and 75 percent good to excellent, respectively. The crop did not fare as well in Montana and Washington, where 33 and 19 percent of the crop was rated good to excellent, respectively. In Montana, unusually hot weather in July and August led some farmers to cut their barley for hay.

**All wheat:** Production of all wheat totaled 2.34 billion bushels in 2003, unchanged from the *Small Grains 2003 Summary*, but forty-four percent above 2002. Grain area is 52.8 million acres, up 15 percent from last year. The U.S. yield is 44.2 bushels per acre, up 8.9 bushels from a year ago.

**Winter Wheat:** The 2003 winter wheat production is estimated at 1.71 billion bushels. This is unchanged from the *Small Grains 2003 Summary* but 49 percent above last year's drought reduced crop. The U.S. yield is 46.7 bushels per acre, 8.2 bushels above last year's final yield, and the third highest yield on record. Acreage for grain is estimated at 36.5 million acres, 23 percent above 2002. Planted area is 44.9 million acres, up 7 percent from the previous year.

Hard Red Winter (HRW) yields rebounded from last year's drought stressed levels, except in Texas where conditions were dry again this year. Excellent spring weather during the grain filling stage of development led to very good yields, with record high levels noted in Oklahoma, Iowa, and North Dakota. Overall, HRW production totals 1.06 billion bushels, up 74 percent from last year.

Soft Red Winter (SRW) producing States' yields were better than a year ago, except in the central and northern Atlantic Coast States where excessive moisture led to disease problems. The largest gains were noted in the Corn Belt, where ample spring precipitation was received. Overall, SRW production is up 14 percent from 2002 and totals 379 million bushels.

White Winter production, at 265 million bushels, is up 32 percent from last year. Yields improved significantly

from last year in Oregon and Washington, and slightly in Idaho. Increased acreage planted to Hard White Winter varieties in Colorado, Kansas, and Nebraska also contributed to the increase in White Winter production.

**Other Spring Wheat:** Production in 2003 is estimated at 533 million bushels, unchanged from the *Small Grains 2003 Summary*, but up 35 percent from 2002. Harvested area is 13.4 million acres, slightly lower than last year. The U.S. yield is 39.7 bushels per acre, 10.4 bushels better than last year's drought reduced crop.

Harvest progressed well ahead of average due to warm, dry weather during August and early September. Most States recorded higher yields than last year, with very large increases in the Dakotas, Minnesota, and Wisconsin. In Idaho, increases from last year in irrigated yields more than offset declines in the non-irrigated crop. Oregon yields were better than last year, but still below average due to moisture shortages. In Washington, hot dry weather in July resulted in lower yields than a year ago. Montana experienced extreme heat and limited moisture during July and August, which held yields at last year's low level. Excellent growing conditions resulted in record high yields in Minnesota, South Dakota, and Wisconsin, and the second highest yield in North Dakota. The Colorado yield is less than half of last year's level, when nearly all of the non-irrigated crop was abandoned. Objective yield survey data showed plant populations at average levels in Montana, above average in North Dakota, and near record high levels in Minnesota. Weight per head was well above average in Minnesota and North Dakota but far below average in Montana.

**Durum Wheat:** Durum production for 2003 totaled 96.6 million bushels, unchanged from the *Small Grains 2003 Summary*, but 22 percent more than last year. Grain area harvested totaled 2.87 million acres, 6 percent above a year ago. The U.S. yield is estimated at 33.7 bushels per acre, 4.3 bushels per acre above 2002. North Dakota's Durum harvest was 92 percent complete as of September 7, compared to only 40 percent last year, and 57 percent for the 5-year average.

**Rice:** Production of rice in 2003 totaled 199 million cwt, down 6 percent from 2002. Area for harvest, at 3.00 million acres, is down 7 percent from 2002. The average yield for all U.S. rice is estimated at 6,645 pounds per acre, 11 pounds below the November 1 forecast. This all rice yield is the highest on record. The previous record of 6,578 pounds per acre was set last year.

Arkansas, Louisiana, Mississippi, and Missouri established new record high yields. Delta State producers experienced an excellent year for rice production. Texas rice producing areas were hit by a tropical storm during the season which affected yield. California experienced a wet spring season which delayed rice planting.

Long grain rice yielded 6,451 pounds per acre across the nation with U.S. production at 149 million cwt. Medium grain rice yielded 7,366 pounds per acre in 2003 with production at 47.4 million cwt. Short grain rice averaged 6,293 pounds per acre with production at 2.71 million cwt.

Sweet rice acreage and production is included in short grain estimates for the first time in 2003. Short grain production increased 78 percent from 2002 due mainly to the inclusion of this additional acreage.

**Rye:** Production for 2003 is estimated at 9.25 million bushels, unchanged from the *Small Grains 2003 Summary*, but up 33 percent from last year's record low. Harvested area totaled 339,000 acres, 21 percent above 2002. The U.S. yield, at 27.3 bushels per acre, is up 2.5 bushels from last year. Oklahoma, the largest producing State, matched its second highest yield on record, and North Dakota and South Dakota set new record high yields.

**Proso Millet:** Total 2003 proso millet production is estimated at 11.5 million bushels, up significantly from the drought stricken 2002 production of 2.76 million bushels. Yields are also higher in 2003 with the average yield estimated at 18.5 bushels per acre, up 6.0 bushels per acre from last year. Planted area for the 2003 crop is estimated at 730,000 acres, 62 percent above last year. Colorado, Nebraska, and South Dakota all show an increase in acreage from the previous year.

Good conditions early in the growing season allowed the crop to progress well. Improved soil moisture during this time also allowed for good germination and enabled more acres to be harvested when compared to 2002. However, conditions turned hot and dry in July and predominated the rest of the growing season until harvest, which reduced yield potential and prevented even more acres from being harvested.

**All Hay:** Production for 2003 is estimated at 157 million tons, down 2 percent from the October 1 forecast but up 4 percent from the 2002 total. Acreage harvested, at 63.3 million acres, is down less than 2 percent from the October forecast and 2002. The average yield, at 2.48 tons per acre, is down 0.02 ton from the October forecast but up 0.14 ton from the previous year.

**Alfalfa and Alfalfa Mixtures:** Production in 2003 totaled 76.3 million tons, down 3 percent from the October forecast but up 3 percent from 2002. Harvested area, at 23.6 million acres, is slightly above the October forecast and 2 percent above the previous year. Yields averaged 3.24 tons per acre, down 0.10 ton from the October 1 forecast but up 0.05 ton from the 2002 yield.

South Dakota harvested 300,000 more acres following last year's drought reduced area. Acreage harvested decreased in the Ohio Valley due to excessive moisture. In California, acreage was taken out of production due to water availability for irrigation. An abundance of rainfall in the eastern Corn Belt and Appalachian Mountains contributed to higher yields compared to last year. Yields in the northern Great Plains increased as a result of favorable growing conditions.

**All Other Hay:** Production in 2003 totaled 80.8 million tons, down 2 percent from the October 1 forecast but up 5 percent from the 2002 total. Area for harvest, at 39.8 million acres, is down 3 percent from the October forecast and 4 percent below last year. The average yield is estimated at a record high 2.03 tons per acre compared to 1.86 tons per acre last year.

Growing conditions were more favorable than 2002 in the northern and central Great Plains. A large reduction in haying of Conservation Reserve Program acreage contributed to fewer acres harvested. Abundant rainfall in the Ohio Valley and along the Atlantic Coast contributed to higher yields than last year. In Minnesota and Wisconsin, dry conditions later in the growing season resulted in lower yields.

**Forage:** Eight States participate in the forage estimation program, which measures annual production of forage crops, with an emphasis on total alfalfa production. Acres, yield, and production are reported for haylage and greenchop together, and for total forage production. Haylage and greenchop production is converted to 13 percent moisture and combined with dry hay production to derive the total forage production. Wisconsin, the leading State, harvested 1.70 million acres of all haylage and greenchop, of which 1.50 million was alfalfa.

**New Seedings of Alfalfa and Alfalfa Mixture:** Growers seeded 3.12 million acres of alfalfa and alfalfa mixtures during 2003. This is down 5 percent from the 2002 seeded acreage of 3.30 million acres. The new seedings of alfalfa and alfalfa mixtures will normally be harvested for the first time in the year following planting.

**Peanuts:** Production of peanuts in 2003 totaled 4.14 billion pounds, up 25 percent from last year's crop and up 1 percent from the November 1 forecast. Planted area for the U.S., at 1.34 million acres, was down 1 percent from 2002. Harvested area totaled 1.31 million acres, up 1 percent from 2002. The U.S. yield per harvested acre averaged a record high 3,159 pounds, up 598 pounds from 2002. Record high yields were set in Georgia and South Carolina. Oklahoma tied their record high yield.

Production in the Southeast States (Alabama, Florida, Georgia, and South Carolina) totaled 2.77 billion pounds, up 45 percent from 2002. Area planted in the region totaled 879,000 acres, up 9 percent from 2002. Harvested acres, at 857,000, were up 9 percent from 2002. The average yield for the Southeast area was 3,238 pounds per acre, 804 pounds above last year.

Production from the Virginia-North Carolina area totaled 416 million pounds, up 26 percent from 2002. Planted acres, at 135,000, were down 15 percent from 2002. Harvested acres, at 133,000, were also down 15 percent from 2002. The average yield per harvested acre in the Virginia-North Carolina region, at 3,126 pounds, was up 1,026 pounds from 2002.

The Southwest peanut crop (New Mexico, Oklahoma, and Texas) totaled 954 million pounds, down 12 percent from 2002. Planted acres, at 330,000, were down 16 percent from 2002. Harvested acres, at 322,000, were down 9 percent from 2002. Yields in the tri-state area averaged 2,962 pounds per acre, 84 pounds below 2002.

**Canola:** Canola production in 2003 is 1.51 billion pounds, down 3 percent from 2002. The canola yield, at 1,416 pounds, is up 198 pounds from last year. Area planted to canola is estimated at 1.08 million acres, 26 percent below last year's acreage. Harvested area, at 1.07 million acres, is down 16 percent from 2002. In North Dakota, the leading State, production is estimated at 1.35 billion pounds, down 5 percent from last year. This decrease is a result of lower planted and harvested acreage as yields rebounded from last year.

**Sunflower:** The 2003 sunflower production totaled 2.67 billion pounds, 7 percent above the 2002 production but down 22 percent from 2001. The estimated yield per acre, at 1,213 pounds, increased 71 pounds from 2002. Planted area, at 2.34 million acres, is 9 percent below last year. Harvested acres increased 1 percent from last year to 2.20 million acres.

Production in North Dakota, the leading State, is estimated at 1.52 billion pounds, down 11 percent from 2002. The yield per acre, at 1,304 pounds, is up 4 pounds from last year. Planted and harvested acres decreased from 2002 by 12 and 11 percent, respectively.

Production for oil type sunflower varieties, at 2.26 billion pounds, increased 9 percent from 2002. Harvested acres are up 3 percent from the previous year, while the yield increased by 66 pounds.

Production for non-oil sunflower varieties, at 406 million pounds, decreased 3 percent from last year. Acreage harvested for non-oil varieties decreased 12 percent from 2002. However, the average yield per acre, at 1,256 pounds, increased 106 pounds from 2002.

**Soybeans:** Production in 2003 totaled 2.42 billion bushels, down 1 percent from the November forecast and 12 percent below the 2002 level. This is the lowest production level since 1996. The average yield per acre is estimated at 33.4 bushels, 0.4 bushel below the November forecast and 4.6 bushels below the 2002 final yield. This is the lowest yield since 1993. Planted area at 73.4 million acres, is down 1 percent from 2002. Harvested area totaled 72.3 million acres, down slightly from last year and the previous forecast.

Yields are down from last year in the northern Great Plains, Great Lakes, upper and middle Mississippi Valley as drought persisted during the growing season. However, record yields were established in Georgia, South Carolina, the Tennessee Valley, and the Mississippi Delta as growing conditions were favorable. Yields are also up in the Atlantic Coast States with growing conditions being more favorable.

Planting of the 2003 soybean crop started at, or behind normal in the Corn Belt. However, progress in the lower Mississippi Valley began well ahead of average. Heavy rainfall across the Corn Belt, the Tennessee and Ohio Valleys, the Delta, and Southeast limited planting progress before mid-May. On May 18, planting progress was more than 1 week behind normal in Illinois, Indiana, Iowa, Louisiana, Michigan, and Nebraska. Ninety-six percent of the soybean crop had been planted by June 29, compared to 99 percent a year ago and the average of 98 percent.

During August, high temperatures and moisture shortages stressed the soybean crop during the critical reproductive stage of development in the Great Plains and western Corn Belt. In the northern Great Plains and upper and middle Mississippi Valley, extremely dry weather caused crop conditions to decline during August. However, conditions

in the Ohio Valley, Delta States, Southeast, and Atlantic Coastal Plains were more favorable during August as milder temperatures and adequate moisture aided reproductive development.

Freezing temperatures the first week of October in the northern Great Plains, Corn Belt, and Ohio Valley ended plant growth and promoted maturation. As of October 12, the percent of soybeans dropping leaves had reached 95 percent, 1 percentage point behind the 5-year average. Harvest across most of the Nation progressed rapidly, promoted by warm, dry weather during October. By the end of October, harvest neared completion in the western Corn Belt and northern Great Plains. Progress was nearly 1 week ahead of normal in Michigan and Wisconsin, but was over 1 week behind in Kansas and Missouri. Harvest in November finished slightly ahead of the 5-year average.

Final pod counts from the objective yield survey were considerably below last year in Illinois, Indiana, Iowa, Minnesota, and Missouri, while counts were higher than 2002 in Nebraska and Ohio.

**Flaxseed:** Production of flaxseed in 2003 totaled 10.4 million bushels, down 17 percent from the previous year. Yield is estimated at 17.9 bushels, unchanged from 2002. Planted area for the 2003 crop is estimated at 595,000 acres, down 24 percent from 2002. Harvested area, at 583,000 acres, is 17 percent below 2002.

In North Dakota, the leading flaxseed State, production totaled 9.90 million bushels, down 19 percent from 2002. Growers planted 560,000 acres, a decrease of 25 percent from the previous year. The average yield in North Dakota is estimated at 18.0 bushels per acre, unchanged from last year. Planting took longer to complete when compared to 2002, but was on pace with the 5-year average. The crop developed well and was rated better than average throughout most of the growing season. Harvest began the week ending August 10 and finished substantially ahead of both last year and the average.

**Other Oilseeds:** Safflower production, at 273 million pounds, decreased 9 percent from 2002. Mustard seed production totaled 77.4 million pounds, a 37 percent decline from the previous year. Rapeseed production decreased sharply to 1.14 million pounds, down 75 percent from 2002.

Planted area for safflower increased slightly while rapeseed and mustard seed acreages are down from 2002. Safflower growers planted an estimated 221,000 acres, an increase of 1 percent from 2002. Safflower harvested area is estimated at 212,000 acres, up 8 percent from the previous year. Planted area of mustard seed, at 110,000 acres, is down 42 percent from 2002 and harvested area, at 107,000 acres, is down 39 percent from last year. Growers planted an estimated 1,300 acres of rapeseed in 2003 and harvested 1,200 acres, down 2,100 and 1,900 acres, respectively.

The yield for safflower, at 1,286 pounds per acre, decreased 234 pounds from 2002. Mustard seed yields averaged 723 pounds per acre, 18 pounds above last year. Rapeseed averaged 949 pounds per acre in 2003, down 512 pounds from 2002.

**Cotton:** Upland cotton production is estimated at 17.8 million bales, up fractionally from the December 1 forecast and 8 percent more than last year's production. The U.S. yield for upland cotton is a record high 719 pounds per acre, up 4 pounds from the December 1 forecast and 68 pounds more than 2002. Harvested area, at 11.9 million acres, decreased less than 1 percent from last month and is 2 percent below last year. Upland planted area is estimated at 13.3 million acres, down 1 percent from the August estimate and 3 percent less than last season. Data from the 7 Objective Yield States showed above average boll counts, higher weights than any of the previous six seasons, and above average harvest loss.

The Southeastern region growers began the season with delayed plantings, replantings, or abandoning plans for cotton entirely as a cool, wet spring prevented fieldwork. Consequently, crop development was up to 3 weeks behind normal. In September, Hurricane Isabel brought intensive wind and rain to North Carolina and Virginia cotton fields. Georgia and Alabama growers managed to harvest their fields when weather permitted. Early November temperatures were above normal allowing growers to make significant harvest progress. Objective yield data showed above average boll counts in Georgia and the highest average boll weight of the previous 5 years. North Carolina boll counts and weights remain near average.

Producers in the northern Delta States were also faced with wet conditions that delayed or prevented getting their cotton crop planted. Southern Delta growers had near ideal planting conditions. Cool, June nighttime temperatures slowed crop development and delayed development up to three weeks. However, end of summer heat and humidity matured the crop rapidly. Timely and beneficial rains fell during the early fall, boosting production prospects. Harvesting conditions throughout the region were excellent. Above average temperatures aided the boll opening process. Boll counts and average boll weights in Mississippi remain the highest in the 15-year data series. Louisiana's boll counts are the highest since 1992, with the weight per boll above average. Boll counts in Arkansas are slightly below the 15-year average and the lowest since 1999. However, Arkansas boll weights are the highest since 1994.

Texas growers began the planting season with an above average pace in south and central areas. Rains during May benefitted dryland growers in the Panhandle as the moisture allowed producers to proceed with planting. During June, high winds and hail damaged significant acreages in the High Plains. These growers also experienced an extremely dry summer. Soil moisture levels were critically short. Growers in south and central areas of Texas experienced a good growing season for the most part. A late season storm hit the southern High Plains in September and adversely affected significant cotton acreages. Growers were concerned that the late cotton crop would be unable to finish boll setting as a series of cold fronts came through the region. Record high temperatures during October, however, helped finish the crop in the High Plains area and growers were able to harvest under ideal conditions. Objective yield measurements showed the Texas boll counts as the lowest since 1995. Average boll weights, however, are the highest in the 15-year data series.

Arizona and California upland cotton growers began planting during March, but were delayed or forced to replant due to the cool, wet spring weather. Some growers switched from American-Pima varieties to upland varieties due to more favorable upland prices. Development of the California cotton crop was up to a month behind normal, but the extremely warm summer weather allowed the crop to catch up. California growers began the harvest later than any of the previous 15 years due to the late-developing crop. October weather provided ideal harvesting conditions throughout California. Growers were wrapping up the harvest by the end of November except in Arizona where it was delayed by frequent scattered showers. Data from objective yield measurements showed California boll counts are the third highest in the 15-year data series, surpassed only by the previous two years. Boll weights are below the 15-year average, but the highest since 1998.

American-Pima production is estimated at 429,000 bales, down 3,000 bales from the December forecast and down 37 percent from last year's output. The U.S. Pima yield is estimated at 1,157 pounds per harvested acre, down 74 pounds from last month and 185 pounds less than last year's record high yield. Producers planted 179,100 acres of Pima cotton in 2003, down 27 percent from 2002. The decrease in planted acreage led to a similar decrease in harvested acreage. Growers either delayed planting or replanted their damaged fields due to the cool, wet spring. Some switched to planting upland varieties. The late-developing crop led to decreased yields.

All cotton ginnings totaled 16,914,350 running bales prior to January 1, compared with 15,654,000 running bales ginned to the same date last year and 18,759,400 running bales in 2001.

**Cottonseed:** Production for 2003, based on a 3-year average lint-seed ratio, is expected to total 6.69 million tons, up 8 percent from last year's production of 6.18 million tons.

**Tobacco:** U.S. tobacco production in 2003 totaled 831 million pounds, down 2 percent from the October 1 forecast and 5 percent below 2002. Growers harvested 416,210 acres in 2003, up 1 percent from the previous forecast but 3 percent below last year. Yield per acre averaged 1,997 pounds, a 47 pound decrease from the October forecast and down 52 pounds from 2002.

Flue-cured production is estimated at 469 million pounds, a decrease of 2 percent from the October 1 forecast and 9 percent less than last year. Harvested acres totaled 234,400, down 2 percent from the previous forecast and 5 percent below 2002. Flue-cured yields averaged 2,000 pounds, an increase of 2 pounds from the October forecast but 105 pounds below 2002. Persistent wet weather throughout much of the growing season, particularly in North Carolina and Virginia, contributed to the lower yields by causing poor root system development, leaching of fertilizer, and increased incidence of disease. In Virginia, excessive rainfall also caused a reduction in acres harvested.

Burley production totaled 298 million pounds in 2003, down 2 percent from the October 1 forecast but virtually unchanged from last year. Growers harvested 156,200 acres in 2003, up 5 percent from the previous forecast but 2 percent less than last year. Yield per acre averaged 1,908 pounds, down 125 pounds from the October forecast but 31 pounds above last year. Abundant moisture in Kentucky and Tennessee enabled yields to increase compared to the previous season's drought-stressed crop. The wet weather conditions resulted in heavy leaf weights going into the barn. However, final yields proved to be lower than previously expected after curing as much of the leaf was lighter weight after stripping.

**Sugarbeets:** Production is estimated at 30.6 million tons, slightly below the November 1 forecast but 10 percent above last year's production. Growers in the 12 sugarbeet-producing States harvested 1.35 million acres, slightly above the November estimate but 1 percent below last year's 1.36 million acres. Yield is estimated at 22.7 tons per acre, 0.1 ton below the November forecast but 2.3 tons above the 2002 yield.

Early in the season, planting progressed well ahead of normal in 3 of the 4 major sugarbeet-producing States. By the beginning of May, all 4 States were ahead of their normal pace. Near ideal weather conditions throughout most of the sugarbeet growing areas allowed for timely harvest. Though harvest was delayed in some areas by warm weather that prevented piling, these delays were quickly overcome as cooler weather prevailed. As of November 2, harvest was 97 percent complete in the 4 reporting States, compared to the 5-year average of 93 percent. Warm days and cool nights in the northern Rocky Mountain growing areas were favorable for building high sucrose content.

**Sugarcane:** Production of sugarcane for sugar and seed is estimated at 34.4 million tons, 4 percent below the December forecast and 3 percent below last year's 35.6 million tons. Area harvested and to be harvested for sugar and seed is estimated at 996,800 acres for the 2003 crop year, unchanged from December but down 3 percent from last year. Yield is at estimated 34.5 tons per acre, 1.5 tons below last month and 0.2 ton below 2002.

Acreage, yield, and production estimates for Florida, Hawaii, and Texas are unchanged from the December forecast. Growing conditions were generally favorable in Florida, resulting in a yield of 39.5 tons per acre, the highest since 1998. Louisiana's yield estimate is down 3.0 tons from December. Extremely wet fields during the 2002 harvest resulted in fewer replanted acres than normal, so a significant portion of the 2003 crop came from stubble older than is normally kept. The muddy harvest of 2002 caused damage to the root system of some stubble cane fields. The full impact of the damage was unknown prior to the 2003 harvest. Only when harvest was well underway did producers realize the effect that last year's root damage had on this year's yield.

**Dry Beans:** U.S. dry edible bean production is estimated at 22.5 million cwt for 2003, down 1 percent from the December forecast and 25 percent below last year. Harvested acreage is estimated at 1.35 million acres, 1 percent below the last forecast and down 22 percent from 2002. The average U.S. yield is estimated at 1,672 pounds per acre, a decrease of 6 pounds from the December forecast and 64 pounds below a year ago. Production is below a year ago in 12 of the 18 producing States. Most notable is a 50 percent production decrease in Michigan where planted area is the lowest on record. Also, Oregon's production is down 37 percent due to drought conditions. Production is down from a year ago for black, small white, navy, garbanzo, cranberry, baby lima, dark red kidney,

pinto, light red kidney, and small red. Production increases are reported from last year for great northern, blackeye, large lima, and pink.

Production in North Dakota is estimated at 7.80 million cwt, 27 percent below 2002. Harvested area decreased 25 percent, while the average yield, at 1,500 pounds per acre, is down 40 pounds from last year. Harvest was virtually complete by the second week of October. Mostly dry conditions and above normal temperatures helped to push the crop harvest ahead of average by a week.

In Michigan, production is estimated at 2.48 million cwt, only half of last year. The average yield of 1,500 pounds per acre is 350 pounds below 2002. Planted acreage of 170,000 acres is a record low for the State. Harvest of dry beans began in early September. Dry conditions before harvest helped to lessen the effect of white mold but had a negative effect on pod fill. New York produced 446,000 cwt of dry beans, 34 percent above last season. Growing conditions were excellent.

Nebraska's production is estimated at 3.15 million cwt, down 9 percent from 2002. Average yield in Nebraska is estimated at 2,130 pounds per acre, 30 pounds more than last year. However, harvested area is 10 percent below last season. Production in Colorado, at 1.17 million cwt, is down 23 percent from 2002. The average yield of 1,600 pounds per acre is 570 pounds below 2002. Growing conditions were generally good for irrigated acres, but dryland beans were stressed from high temperatures in July and a general lack of moisture for most of the growing season.

In Idaho, production is estimated at 1.50 million cwt, a decrease of 21 percent from 2002. Harvested area, at 73,000 acres, is 22 percent below last season. Average yield, at 2,050 pounds per acre, is unchanged from last year. Severe heat in July adversely affected some classes but the majority of beans in Idaho were unaffected. The Washington dry bean crop is 36 percent lower than last year with lower yields and less harvested acreage. Production in California is estimated at 1.40 million cwt, down 20 percent from 2002. The season began well but extremely hot weather during mid-season lowered yields. Texas dry bean production is estimated at 513,000 cwt, up 63 percent from last year. A large amount of the acreage was planted in June and July following failed cotton. Utah experienced drought conditions in 2003 for the fifth consecutive year which has lowered yields. Oregon's season was dry, causing non-irrigated acreage to dry up and irrigated acreage to suffer.

**Lentils:** Production of lentils in Idaho, Montana, North Dakota, and Washington is estimated at 2.44 million cwt for 2003, up 7 percent from the November 1 forecast but 3 percent below 2002. Planted area, at 246,000 acres, is up 2 percent from the previous forecast and 11 percent above the previous season. Harvested area, at 237,000 acres, is 5 percent above the November 1 forecast and 13 percent above last year. Average yield per acre, at 1,030 pounds, is 18 pounds above November's forecast but 170 pounds below last year.

Montana's production, at 273,000 cwt, increased 83 percent from a year ago. Additional harvested area combined with favorable yields in the southeast area of the State contributed to this increase. North Dakota's production is 632,000 cwt, up 22 percent from 2002. Early growing season precipitation was favorable for the lentil crop. Production in Washington, at 910,000 cwt, is down 13 percent from 2002. Producers in the principal growing areas experienced a hot, dry season with precipitation levels well below average which led to lower yields compared to 2002. However, the lentil crop quality is reported to be good. Idaho's production, at 627,000 cwt, is 21 percent below last year. Dry conditions and unseasonable high temperatures caused poor development of the 2003 lentil crop.

**Wrinkled Seed Peas:** Growers of wrinkled seed peas in Idaho and Washington produced 673,000 cwt in 2003, up 12 percent from the revised 2002 production of 599,000 cwt and 5 percent above 2001. Production in Idaho, at 163,000 cwt, is up 4 percent from 2002. Production in Washington, at 510,000 cwt, increased 15 percent from the revised 2002 production of 442,000 cwt.

**Dry Edible Peas:** Production of dry edible peas in Idaho, Montana, North Dakota, Oregon, and Washington is estimated at 5.20 million cwt for 2003, up 4 percent from the November 1 forecast and 23 percent above 2002. Area harvested, at 328,500 acres, is 2 percent above the previous forecast and 17 percent above last year. Average yield, at 1,584 pounds per acre, increased 24 pounds from the November 1 forecast and is 67 pounds above 2002.

Production is up from the previous year for all the major producing States except Washington. Production increased 1 percent in Idaho and 20 percent in Montana, while North Dakota and Oregon were up 37 percent and 97 percent, respectively. Washington's production decreased 8 percent from 2002. Area harvested is up for all the major producing States.

**Austrian Winter Peas:** Production of Austrian winter peas in Idaho, Montana, and Oregon for the 2003 season is estimated at 174,000 cwt, up 21 percent from the November 1 forecast and 6 percent above 2002. Area harvested, at 15,600 acres, is 34 percent above both the previous forecast and last season. Producers abandoned less area than previously expected resulting in the higher production levels. However, reduced yields moderated the production increase. Average yield, at 1,115 pounds per acre, decreased 126 pounds from the November 1 forecast and is 299 pounds below 2002. Idaho's growing conditions were poor in the northern non-irrigated production area. High summer temperatures, combined with little rainfall, reduced production. Drought in the primary pea growing area of Montana forced a number of growers to graze or cut their fields for hay.

**Winter Potatoes:** The final 2003 winter potato production is estimated at 4.03 million cwt, down 3 percent from the April forecast and 4 percent below 2002. Harvested area of 14,300 acres is 3 percent below the April forecast and 9 percent below 2002. The average yield of 282 cwt per acre is 1 cwt above the April forecast and up 14 cwt from a year ago. California's production, at 2.64 million cwt, is 8 percent above last season. Florida's production of 1.39 million cwt is 22 percent below a year ago.

**Spring Potatoes:** Spring potato production for 2003 is revised to 24.4 million cwt, up 10 percent from the May

forecast and 5 percent above last year. Harvested area totaled 84,700 acres, down 2 percent from last year, while the average yield of 288 cwt per acre increased 17 cwt from a year ago.

Spring potato production increased 47 percent from a year ago in Texas and 9 percent in California on the strength of higher average yields. Florida's crop of 8.01 million cwt was up 2 percent from 2002. Production in North Carolina is off 17 percent and Arizona's potato production is 1 percent below a year ago.

**Summer Potatoes:** Growers produced 19.2 million cwt of summer potatoes in 2003, up 7 percent from a year ago. Harvested area, at 59,300 acres, is up less than 1 percent from last season, while the average yield of 324 cwt per acre increased 20 cwt.

Summer production increased 45 percent from last year in Missouri, while Colorado and Virginia both showed gains of 12 percent compared to 2002. Production in Illinois rose 11 percent, California's output was 10 percent higher, and Texas gained 6 percent. Excess rainfall contributed to a decline in Alabama's potato production by 30 percent from last year. New Mexico's production dropped by 28 percent and summer production in Delaware was 8 percent lower than last season.

**Fall Potatoes:** Production of fall potatoes for 2003 is estimated at 411 million cwt, down less than 1 percent from the December forecast and 1 percent below last year. Area harvested, at 1.09 million acres, is down 2 percent from last year but 2 percent above two years ago. The average yield is estimated at 377 cwt per acre, 4 cwt above last year. Production estimates are generally higher this year in the Central and Eastern States but lower in the West.

Western States' production is estimated at 273 million cwt, down 6 percent from last year but 3 percent above 2001. Harvested area, at 660,300 acres, declined 4 percent from last year. The average yield of 413 cwt per acre is down 8 cwt from 2002. Production decreased in 4 of the 9 Western States. Hot weather and problems with seed quality contributed to a 19 percent production decrease in California. Colorado's production fell 15 percent as farmers reduced planted acreage to conserve underground water supplies following drought conditions during the past two years. Idaho's production decreased 8 percent from last year as above normal summer temperatures adversely affected tuber development. In Oregon, dry conditions during June and July reduced yield and tuber sizes. Utah has the largest percentage production increase, up 37 percent from last year. Production in Nevada and Montana increased 25 percent and 4 percent, respectively. Washington's production is 1 percent above last year, while New Mexico's production remains unchanged.

Central States' production is estimated at 110 million cwt, up 13 percent from last year and 8 percent above 2001. Harvested area, at 327,700 acres, is up 4 percent, while the average yield of 336 cwt per acre is up 26 cwt from a year ago. Production in each of the 8 Central States increased compared to last season. Production increases range from 3 percent in South Dakota to 43 percent in Ohio. Minnesota is up 19 percent, North Dakota increased 17 percent, Nebraska rose 15 percent, Michigan went up 8 percent, and Wisconsin increased 5 percent.

Eastern States' production is estimated at 28.4 million cwt, up 9 percent from last year and 7 percent above two years ago. Area for harvest totaled 104,000 acres, virtually unchanged from last year. The average yield, at 273 cwt per acre, is 22 cwt above last season. Production increases occurred in 4 of the 5 Eastern States. In Pennsylvania, production increased 51 percent due to drought conditions in 2002 which made yields unusually low. Rhode Island production is up 27 percent, New York rose 18 percent, and Maine increased less than 1 percent. Massachusetts' crop decreased 6 percent from last year's production level.

**All Potatoes:** Total 2003 U.S. potato production from all four seasons is estimated at 459 million cwt, virtually unchanged from 2002 but 5 percent above 2001. Harvested area, at 1.25 million acres, is down 2 percent from last year but 2 percent above two years ago. The average yield, at 367 cwt per acre, is 5 cwt above last year and 9 cwt above the 2001 crop. By season, fall production declined 1 percent from the previous year, spring is up 5 percent, summer increased 7 percent, and winter dropped 4 percent from 2002.

**Sweet Potatoes:** Production of sweet potatoes in 2003 is estimated at 15.9 million cwt, up 24 percent from last season and 9 percent above 2001 for comparable states. This is the largest production of sweet potatoes in the U.S. since 1962, when 17.1 million cwt were produced. Growers harvested 92,400 acres, up 11 percent from last year. Yield per acre, at 172 cwt, is up 18 cwt from 2002 and is the largest yield on record. The previous record of 162 cwt was set in 1994 and equaled in 1997. Production increased 68 percent in Louisiana, 24 percent in South Carolina, 22 percent in North Carolina, 21 percent in Mississippi, and 13 percent in California. Excellent weather conditions contributed to record high yields being realized in California, Louisiana, Mississippi, and South Carolina. In New Jersey and Texas, sweet potato production dropped 15 percent and 14 percent, respectively.

**Peppermint Oil:** Production of peppermint oil in 2003 is estimated at 6.92 million pounds, up 2 percent from last year. Harvested area is estimated at 78,200 acres, down 2 percent from 2002. Idaho and Wisconsin decreased their acreage 18 percent and 50 percent, respectively. Indiana and Oregon increased their acreage 22 percent and 4 percent, respectively, while Michigan and Washington showed slight increases in their acreage from last season. The U.S. average oil yield is 89 pounds per acre, up 4 pounds from last year. Washington experienced favorable growing conditions this season. There were few pest or disease problems reported in the mint crop this year.

**Spearmint Oil:** Spearmint oil production is estimated at 1.78 million pounds for 2003, down 8 percent from last year and 13 percent below 2001. Harvested area is estimated at 15,800 acres, down 12 percent from last year and 19 percent below 2001. This is the lowest harvested area of spearmint oil in the U.S. since 1966 when harvested acres were 16,600. Average oil yield is estimated at 113 pounds per acre, up 5 pounds from last year and 8 pounds above 2001. All of the major spearmint producing States reduced acreage from 2002 to 2003. Most mint growers cited low prices as the reason for the drop in spearmint acreage.

**Hops:** Production for Idaho, Oregon, and Washington in 2003 totaled 54.6 million pounds, down 6 percent from the 2002 crop and 18 percent below the 2001 production. Production in 2003 for Washington, Oregon, and Idaho

dropped 8 percent, 1 percent, and 5 percent, respectively. Washington's acreage decreased 4 percent in 2003. Both Idaho and Oregon had small increases in their 2003 acreage. Yields declined in all three States in 2003. Washington, with 2,050 pounds per acre, was down 83 pounds from last year. Oregon's average yield dropped 66 pounds, to 1,626 pounds per acre in 2003. In Idaho, yields averaged 1,536 pounds per acre, 88 pounds less than a year ago.

Washington growers produced 73 percent of the U.S. hop crop for 2003. Columbus/Tomahawk, Zeus, Galena, and Willamette were the leading hop varieties in Washington, accounting for 62 percent of the State's production. In Oregon, Nugget and Willamette were the major varieties, accounting for 68 percent of the hops harvested.

**Maple Syrup:** The 2003 U.S. maple syrup production totaled 1.24 million gallons, down 11 percent from 2002 but 18 percent above 2001. Compared to 2002, maple syrup production decreased in all States except Maine and Connecticut.

Vermont led all States in production with 430,000 gallons, a decrease of 14 percent from last season. Vermont syrup production accounted for 54 percent of New England's production and 35 percent of the total United States production. Maine was second with 265,000 gallons, up 15 percent from 2002. New York's production, at 210,000 gallons, decreased 19 percent from last year.

In Massachusetts and New Hampshire, production was down 22 percent and 24 percent, respectively, from last season. Production was also down 11 percent in Michigan, 32 percent in Ohio, 13 percent in Pennsylvania, and 4 percent in Wisconsin compared to 2002. Connecticut production was unchanged from last year.

Producers in northern Maine experienced a heavy sap run in mid-April, which enabled the State's production to increase over 2002. In the remainder of the States, except for Connecticut where production was unchanged, lower syrup production was attributed to cold weather early in the spring, followed by temperatures that warmed too quickly. Some producers chose not to tap due to excessive snow cover.

**Coffee:** Hawaii coffee production is estimated at 8.70 million pounds (parchment basis) for the 2003-04 season, up 16 percent from the previous crop year. Harvested area is estimated at 5,900 acres, unchanged from the 2002-03 season. Increased production from the islands of Kauai, Maui, Molokai, and Oahu more than offset lower production from the island of Hawaii. Improved cultural practices and adequate irrigation boosted production on these islands. Hawaii Island experienced dry weather during the flowering and maturing stages and production is lower as a result of the adverse weather. Harvest on Hawaii Island began earlier than usual and a shorter harvest season resulted.

**Taro:** Hawaii taro production for crop year 2003 is estimated at 5.00 million pounds, down 18 percent from last year. Area harvested, at 420 acres, is down 10 acres from 2002. Major taro producing areas were once again infested with apple snails which feed on taro plants and provide an infection point for diseases. The majority of the production decline can be directly attributed to this pest. Other factors reducing production included occasional floods, leaf blight, and taro pocket rot disease.

**Ginger Root:** Hawaii ginger root production for the 2002-03 season is revised to 6.00 million pounds, down 19 percent from the previous estimate and 58 percent below the previous season. Harvested acreage is revised to 160 acres, 20 percent below the previous estimate and down 50 percent from a year ago. Average yields, at 37,500 pounds per harvested acre, are 17 percent below the previous season. Lower than expected production during the second half of the season resulted from a decline in harvested acreage and disease. Competition from lower priced imports was a major factor in lowering production as producers responded by planting fewer acres.

## Information Contacts

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