

NORTH DAKOTA CROP SUMMARY, 2003

THE SEASON IN REVIEW

Spring tillage and planting for 2003 began earlier than 2002 and the five-year (1998-2002) average due to a relatively dry and mild winter and above average temperatures during early April. The statewide average starting date for fieldwork was April 17 compared to the five-year average of April 22. The starting dates ranged from April 10 in the southeast district to April 26 in the north central district. The record early statewide average starting date is April 6 set in 1981.

Small grain planting began in mid-April and ran ahead of the average pace with 51 percent of other spring wheat and 24 percent of durum wheat planted by May 4. Planting progress slowed mid-May when widespread and significant rain fell across most of the state. By June 1, other spring wheat planting progress was nearly complete, at 95 percent planted, slightly ahead of average. Planting progress for most late season crops was also delayed by the mid-May wet conditions, but quickly caught up because of warmer and drier conditions in late May. By June 2, planting progress for all the late season crops, except dry edible beans, flaxseed and potatoes, was equal or ahead of the average.

Growing conditions in June were near ideal for small grains as most of the state received measurable precipitation, including the southwest which experienced a drought most of 2002. Statewide, on July 6, the hard red spring wheat crop was rated 60 percent good and 25 percent excellent compared to 41 percent good and 6 percent excellent in 2002. However, above normal temperatures and dry conditions during most of July pushed small grain development and deteriorated late season crop conditions. The soybean crop condition went from 56 percent good and 25 percent excellent on June 29 to 58 percent good and 16 percent excellent on August 3.

Small grain harvest began in late July and was essentially complete, except for durum, by the end of August. Harvest progress for small grains, except durum, was over a week ahead of average during most of August due to the combination of early plantings and hot, dry conditions that pushed crop maturity. The durum wheat harvest, along with canola, was essentially complete by September 14. The late season and oilseed crops were stressed during August due to the hot, dry conditions. Corn crop condition ratings dropped to 46 percent good to excellent on August 31 from 76 percent good to excellent on August 3.

ANNUAL CROP SUMMARY: AREA PLANTED AND HARVESTED North Dakota and United States, 2002 and 2003 ^{1/}

Crop	North Dakota				United States			
	Area Planted		Area Harvested		Area Planted		Area Harvested	
	2002	2003	2002	2003	2002	2003	2002	2003
	1,000 Acres		1,000 Acres		1,000 Acres		1,000 Acres	
Barley	1,600	2,050	1,300	1,980	5,008	5,299	4,123	4,688
Corn for Grain ^{2/}	1,230	1,450	995	1,170	78,894	78,736	69,330	71,139
Corn for Silage			180	220			7,122	6,528
Hay, All			3,300	2,950			63,942	63,342
Alfalfa			1,450	1,600			22,923	23,578
All Other			1,850	1,350			41,019	39,764
Oats	670	620	300	360	4,995	4,601	2,058	2,224
Rye	10	18	7	15	1,355	1,368	263	339
Wheat, All	9,080	8,630	7,915	8,500	60,318	61,700	45,824	52,839
Winter	80	130	65	120	41,766	44,945	29,742	36,541
Durum	2,100	2,000	1,950	1,980	2,913	2,915	2,709	2,869
Other Spring	6,900	6,500	5,900	6,400	15,639	13,840	13,373	13,429
Canola	1,300	970	1,160	960	1,460	1,082	1,281	1,068
Flaxseed	750	560	680	550	784	595	703	583
Mustard Seed ^{3/}					191.0	110.0	175.0	107.0
Rapeseed ^{3/}					3.4	1.3	3.1	1.2
Safflower ^{3/}					219	221	185	212
Soybeans	2,670	3,150	2,630	3,030	73,963	73,404	72,497	72,321
Sunflower, All	1,370	1,210	1,315	1,165	2,581	2,344	2,167	2,197
Oil	1,150	1,060	1,105	1,020	2,126	1,998	1,806	1,874
Non-oil	220	150	210	145	455	346	361	323
Sugarbeets	265	259	258	255	1,427.3	1,365.4	1,360.7	1,347.9
Dry Edible Beans, All	790.0	540.0	690.0	520.0	1,929.7	1,406.1	1,738.9	1,346.9
Navy	180.0	75.0	151.0	71.0	345.3	158.2	307.7	150.9
Pinto	515.0	410.0	460.0	397.0	832.3	662.9	742.3	638.2
Black Turtle	60.0	22.0	51.0	21.0	196.7	84.3	183.6	80.7
Dark Red Kidney	7.0	5.0	5.1	4.6	71.1	49.9	65.6	48.4
Pinks	9.0	8.5	7.8	7.7	34.8	32.8	33.1	31.2
Chickpeas, All (Garbanzo)	8.6	5.0	6.2	4.7	85.5	43.5	74.1	41.4
Large ^{4/}		4.0		3.8		37.5		35.8
Small ^{4/}		1.0		0.9		6.0		5.6
Great Northern	5.8	8.0	4.9	7.8	94.4	109.4	82.7	103.8
Other	4.6	6.5	4.0	6.2	269.6	265.1	249.8	252.3
Dry Edible Peas	155	160	138	155	308.7	337.5	285.5	328.5
Lentils	53	55	47	54	226.0	246.0	215.0	237.0
Fall Potatoes, All	118.0	117.0	102.0	112.0	1,134.1	1,107.6	1,105.2	1,092.0
Irrigated ^{5/ 6/}	36.0	37.5	34.5	37.0				
Types, Reds ^{6/}	19.0	23.5	14.5	21.5				
Whites ^{6/}	47.5	45.5	40.0	43.5				
Russets ^{6/}	51.5	48.0	47.5	47.0				

^{1/} Data are latest estimates available. ^{2/} Area planted for all purposes. ^{3/} Published at U.S. level only. ^{4/} Estimates began in 2003. ^{5/} Included in all potatoes. ^{6/} Published at state level only.

NORTH DAKOTA CROP SUMMARY, 2003 (Continued)

Late season and oilseed crop conditions continued to deteriorate during September as the hot, dry conditions that dominated the month of August carried over to early September. Dry conditions late September and early October enabled producers to make excellent progress harvesting crops. By mid-October, harvest progress was ahead of average for all remaining late season crops except sugarbeets, which was temporarily halted due to high temperatures. By November 2, 95 percent of the corn, and 96 percent of the sunflower had been harvested, nearly two weeks ahead of the average pace. All other remaining late season crops were virtually harvested by the third week of October, ahead of average.

Entering the winter months, only 30 percent of the state had adequate topsoil moisture supplies, none had surplus. Soil moisture supplies in the south central and western part of the state were rated very short to short.

ACREAGE & PRODUCTION SUMMARY

Total planted area of principal crops in 2003, including hay harvested, was 22.8 million acres, a 3 percent decrease from 2002. Harvested area totaled 22.1 million acres compared to 21.2 million acres in 2002.

Total crop output during 2003 was up 22 percent from 2002. As an index, all crop production was 109 percent of the 1998 base (1998 = 100). All crop production in 2002 was 89 percent of the base. The relatively low crop production in 2002 can be attributed to the drought conditions that affected several counties in the state during that growing season.

Corn and soybean production for 2003 both broke record highs set in 2002. Record high harvested acreage more than offset lower yields for both crops. Other spring wheat and durum production were up 53 and 20 percent, respectively, from 2002's drought reduced crop. The increases were the result of additional harvested acreage and higher yields for both crops. Potato production for 2003 was at its highest level since 1998 due mostly to yields matching the record high yield set in 2000. Production in 2003 was also up for barley, oats, rye, dry edible peas, lentils, sugarbeets and all hay.

Production was lower in 2003 for oil sunflower and canola when compared to 2002. The decrease in oil sunflower was the result of lower harvested acres and lower yields while the drop in canola was due to decreased acreage despite relatively high yields. Production of dry edible beans, non-oil sunflower and flaxseed were also lower in 2003.

ANNUAL CROP SUMMARY: YIELD AND PRODUCTION North Dakota and United States, 2002 and 2003 ^{1/}

Crop	Unit	North Dakota				United States			
		Yield ^{2/}		Production		Yield ^{2/}		Production	
		2002	2003	2002	2003	2002	2003	2002	2003
				--- 1,000 ---					--- 1,000 ---
Barley	Bu	45.0	60.0	58,500	118,800	55.0	58.9	226,906	276,087
Corn for Grain	Bu	114.0	112.0	113,430	131,040	129.3	142.2	8,966,787	10,113,887
Corn for Silage	Tons	7.0	6.8	1,260	1,496	14.4	16.2	102,293	105,864
Hay, All	Tons	1.19	1.56	3,920	4,598	2.34	2.48	149,467	157,123
Alfalfa	Tons	1.30	1.65	1,885	2,640	3.19	3.24	73,014	76,307
All Other	Tons	1.10	1.45	2,035	1,958	1.86	2.03	76,453	80,816
Oats	Bu	42.0	59.0	12,600	21,240	56.4	65.0	116,002	144,649
Rye	Bu	30.0	50.0	210	750	24.7	27.3	6,488	9,254
Wheat, All	Bu	27.3	37.3	216,095	317,090	35.0	44.2	1,605,878	2,336,526
Winter	Bu	33.0	49.0	2,145	5,880	38.2	46.7	1,137,001	1,707,069
Durum	Bu	25.0	29.5	48,750	58,410	29.5	33.7	79,960	96,637
Other Spring	Bu	28.0	39.5	165,200	252,800	29.1	39.7	388,917	532,820
Canola	Lbs	1,210	1,410	1,403,600	1,353,600	1,197	1,416	1,533,420	1,512,250
Flaxseed	Bu	17.0	18.0	11,560	9,900	16.9	17.9	11,863	10,426
Mustard Seed ^{3/}	Lbs					655	723	114,590	77,372
Rapeseed ^{3/}	Lbs					1,294	949	4,010	1,139
Safflower ^{3/}	Lbs					1,435	1,286	265,550	272,555
Soybeans	Bu	33.0	29.0	86,790	87,870	38.0	33.4	2,756,147	2,417,565
Sunflower, All	Lbs	1,292	1,304	1,699,550	1,518,850	1,131	1,213	2,451,247	2,665,226
Oil	Lbs	1,310	1,300	1,447,550	1,326,000	1,144	1,206	2,065,899	2,259,666
Non-oil	Lbs	1,200	1,330	252,000	192,850	1,067	1,256	385,348	405,560
Sugarbeets	Tons	18.6	20.4	4,799	5,202	20.4	22.7	27,707	30,605
Dry Edible Beans, All ^{4/}	Cwt	1,540	1,500	10,626	7,800	1,743	1,672	30,312	22,515
Navy ^{4/}	Cwt	1,550	1,640	2,340	1,164	1,751	1,666	5,389	2,514
Pinto ^{4/}	Cwt	1,560	1,480	7,184	5,864	1,777	1,635	13,188	10,437
Black Turtle ^{4/}	Cwt	1,350	1,320	689	277	1,699	1,565	3,120	1,263
Dark Red Kidney ^{4/}	Cwt	1,330	1,520	68	70	1,732	1,746	1,136	845
Pinks ^{4/}	Cwt	1,590	1,690	124	130	1,801	1,962	596	612
Chickpeas, All (Garbanzo) ^{4/}	Cwt	1,470	1,570	91	74	1,162	1,048	861	434
Large ^{4/ 5/}	Cwt		1,580		60		1,045		374
Small ^{4/ 5/}	Cwt		1,560		14		1,071		60
Great Northern ^{4/}	Cwt	1,510	1,760	74	137	1,884	2,135	1,558	2,216
Other ^{4/}	Cwt	1,400	1,350	56	84	1,787	1,662	4,464	4,194
Dry Edible Peas ^{4/}	Cwt	1,600	1,770	2,208	2,744	1,656	1,584	4,727	5,202
Lentils ^{4/}	Cwt	1,050	1,170	494	632	1,196	1,030	2,571	2,442
Fall Potatoes, All	Cwt	230	245	23,460	27,440	374	377	413,581	411,386
Irrigated ^{6/ 7/}	Cwt	300	363	10,350	13,415				
Types, Reds ^{7/}	Cwt	178	160	2,580	3,440				
Whites ^{7/}	Cwt	181	191	7,250	8,305				
Russets ^{7/}	Cwt	287	334	13,630	15,695				

^{1/} Data are latest estimates available. ^{2/} Yield per harvested acre. ^{3/} Published at U.S. level only. ^{4/} Yield in pounds. ^{5/} Estimates began in 2003. ^{6/} Included in all potatoes. ^{7/} Published at state level only.

NORTH DAKOTA CROP SUMMARY, 2003 (Continued)

INDEX OF CROP PRODUCTION, North Dakota, 1994-2003 ^{1/}

Year	Grains			Oil Crops	Misc. ^{2/}	Hay	All Crops
	Food	Feed	All				
----- 1998 = 100 -----							
1994	115	95	108	49	87	108	96
1995	97	72	88	44	78	122	85
1996	128	97	116	47	84	115	99
1997	87	80	85	61	81	104	84
1998	100	100	100	100	100	100	100
1999	79	71	76	84	96	132	90
2000	102	103	103	105	99	120	104
2001	94	82	90	115	90	123	97
2002	70	88	77	129	92	94	89
2003	102	127	111	125	100	110	109

1/ Index of production in metric tons as percent of the base year (1998) production. 2/ Non-oil sunflower, potatoes, sugarbeets, dry edible beans, dry edible peas, lentils and corn for silage.

TOTAL PRINCIPAL CROPS, North Dakota, 1994-2003 ^{1/}

Year	Acreage		Value of Production	Value Per Harvested Acre
	Area Planted	Area Harvested		
--- 1,000 ---			1,000 Dollars	Dollars
1994	21,981	20,977	2,683,560	129.31
1995	21,085	20,478	2,942,351	144.85
1996	22,823	22,402	3,314,076	148.86
1997	23,003	21,833	2,526,949	116.65
1998	22,071	21,360	2,688,166	126.59
1999	20,550	19,177	2,058,976	108.13
2000	22,322	20,851	2,381,394	114.98
2001	21,238	20,299	2,493,668	123.79
2002	23,517	21,157	2,878,238	137.21
2003	22,831	22,086	3,542,761	162.02

1/ Planted acres include acres harvested for hay. Acreages and value include unpublished data for miscellaneous crops and commercial vegetables. Value excludes corn for silage. 2003 value includes 2003 sugarbeet production multiplied by 2002 price.

GRAIN STORAGE CAPACITY, North Dakota, December 1, 1994-2003

Year	Off Farm Facilities	Capacity		
		Off Farm	On Farm	Total
Number		----- 1,000 Bushels -----		
1994	448	251,060	760,000	1,011,060
1995	440	251,070	740,000	991,070
1996	438	250,850	740,000	990,850
1997	428	239,040	720,000	959,040
1998	420	245,430	740,000	985,430
1999	409	248,670	740,000	988,670
2000	394	244,370	710,000	954,370
2001	385	240,130	710,000	950,130
2002	379	240,650	710,000	950,650
2003	363	235,390	710,000	945,390

PRINCIPAL CROPS, Record Highs and Lows, North Dakota

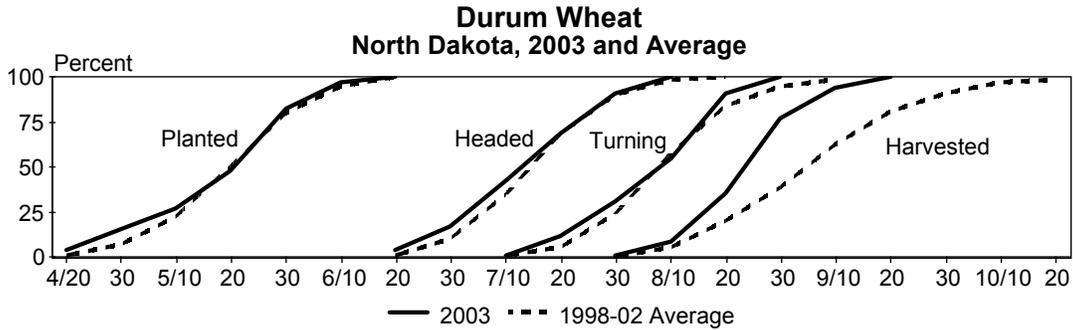
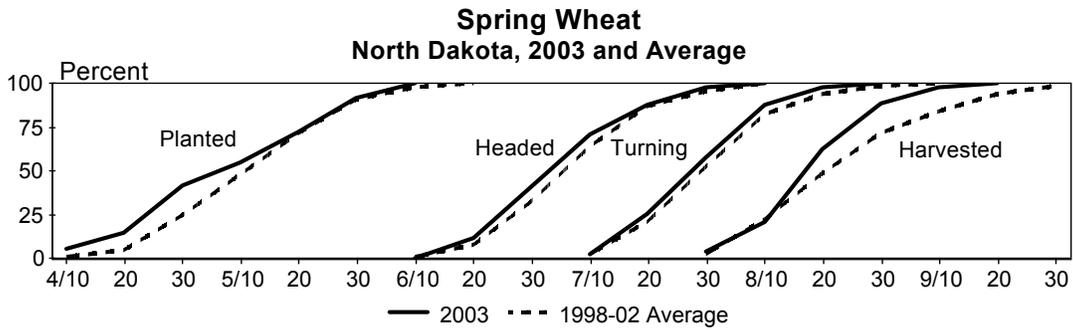
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Crop	Unit	Record High ^{1/}		Record Low ^{1/}		Year Records Started	
		Quantity	Year	Quantity	Year		
All Wheat	Planted	Acres	12,680,000	1996	5,715,000	1962	1916
	Harvested	Acres	12,515,000	1996	85,000	1879	1879
	Yield	Bu	41.1	1992	4.5	1900	1879
	Production	Bu	472,890,000	1992	1,742,000	1879	1879
Spring Wheat	Planted	Acres	9,600,000	1996	3,812,000	1962	1926
	Harvested	Acres	9,500,000	1996	2,438,000	1936	1919
	Yield	Bu	42.0	1992	5.2	1936	1919
	Production	Bu	382,200,000	1992	12,678,000	1936	1919
Durum Wheat	Planted	Acres	5,051,000	1928	797,000	1958	1926
	Harvested	Acres	5,000,000	1928	770,000	1958	1919
	Yield	Bu	38.0	1992	3.5	1954	1919
	Production	Bu	127,890,000	1981	4,235,000	1954	1919
Winter Wheat	Planted	Acres	750,000	1985	25,000	1966	1964
	Harvested	Acres	550,000	1984	24,000	1966	1964
	Yield	Bu	49.0	2003	13.0	1988	1964
	Production	Bu	22,000,000	1984	600,000	1966	1964
Barley	Planted	Acres	4,147,000	1959	1,350,000	1999	1926
	Harvested	Acres	3,918,000	1958	15,000	1882	1882
	Yield	Bu	65.0	1992	5.0	1910	1882
	Production	Bu	184,250,000	1985	382,000	1882	1882
Oats	Planted	Acres	2,985,000	1970	530,000	1996	1926
	Harvested	Acres	2,870,000	1917	57,000	1882	1882
	Yield	Bu	70.0	1993	8.0	1910	1882
	Production	Bu	153,624,000	1969	1,852,000	1882	1882
Rye	Planted	Acres	2,310,000	1919	10,000	2002	1919
	Harvested	Acres	2,100,000	1919	1,000	1888	1882
	Yield	Bu	50.0	2003	4.5	1936	1882
	Production	Bu	31,266,000	1922	10,000	1888	1882
Sunflower	Planted	Acres	3,460,000	1979	13,000	1962	1962
	Harvested	Acres	3,378,000	1979	12,500	1962	1962
	Yield	Lbs	1,517	1998	600	1964	1962
	Production	Lbs	4,584,600,000	1979	10,800,000	1964	1962
Canola	Planted	Acres	1,300,000	2002	18,000	1991	1991
	Harvested	Acres	1,285,000	2001	17,500	1991	1991
	Yield	Lbs	1,530	1992	1,180	1997	1991
	Production	Lbs	1,799,000,000	2001	24,500,000	1991	1991
Soybeans	Planted	Acres	3,150,000	2003	7,000	1945	1942
	Harvested	Acres	3,030,000	2003	4,000	1944	1942
	Yield	Bu	35.0	1999	10.0	1947	1942
	Production	Bu	87,870,000	2003	40,000	1942	1942
Flaxseed	Planted	Acres	3,649,000	1957	80,000	1996	1920
	Harvested	Acres	3,500,000	1956	35,000	1892	1889
	Yield	Bu	21.0	2000	2.7	1936	1889
	Production	Bu	28,700,000	1956	228,000	1889	1889
All Corn	Planted	Acres	1,671,000	1934	495,000	1972	1929
Corn for Grain	Harvested	Acres	1,170,000	2003	17,000	1934	1924
	Yield	Bu	117.0	1999	8.4	1934	1924
	Production	Bu	131,040,000	2003	143,000	1934	1924
Dry Edible Beans	Planted	Acres	790,000	2002	21,000	1966	1964
	Harvested	Acres	710,000	1998	20,000	1966	1964
	Yield	Lbs	1,550	2001	600	1989	1964
	Production	Cwt	10,626,000	2002	165,000	1964	1964
Dry Edible Peas	Planted	Acres	160,000	2003	64,000	1999	1998
	Harvested	Acres	155,000	2003	58,000	1999	1998
	Yield	Lbs	2,170	2000	1,600	2002	1998
	Production	Cwt	2,744,000	2003	1,102,000	1999	1998
Lentils	Planted	Acres	55,000	2003	22,000	1998	1998
	Harvested	Acres	54,000	2003	21,500	1998	1998
	Yield	Lbs	1,550	1999	1,050	2002	1998
	Production	Cwt	632,000	2003	267,000	1998	1998
Potatoes	Planted	Acres	191,000	1943	73,000	1951	1929
	Harvested	Acres	198,000	1922	2,000	1882	1882
	Yield	Cwt	245	2003	20	1890	1882
	Production	Cwt	30,030,000	1991	196,000	1882	1882
Sugarbeets	Planted	Acres	265,000	2002	2,900	1924	1924
	Harvested	Acres	258,000	2002	2,600	1924	1924
	Yield	Tons	22.2	1998	4.9	1934	1924
	Production	Tons	5,386,000	1998	24,500	1924	1924
All Hay	Harvested	Acres	4,337,000	1961	2,102,000	1934	1909
	Yield	Tons	2.09	2000	0.41	1934	1909
	Production	Tons	6,285,000	1978	871,000	1934	1909

^{1/} In case of a tie, most recent year was used. Bold indicates new record.

SMALL GRAIN AND OILSEED PLANTING AND HARVESTING PROGRESS



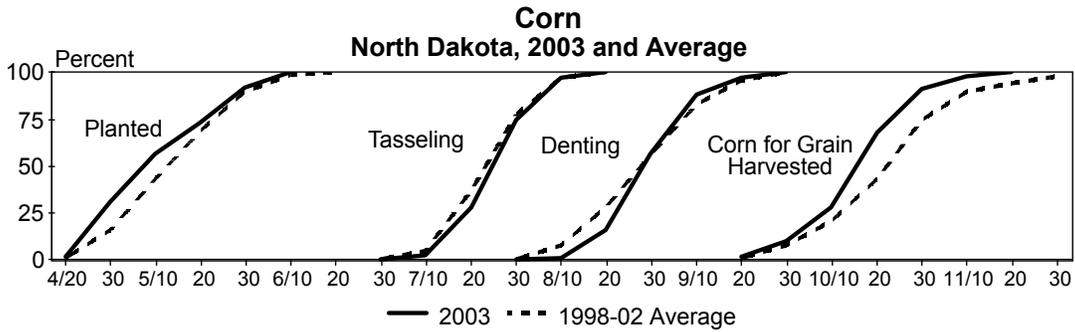
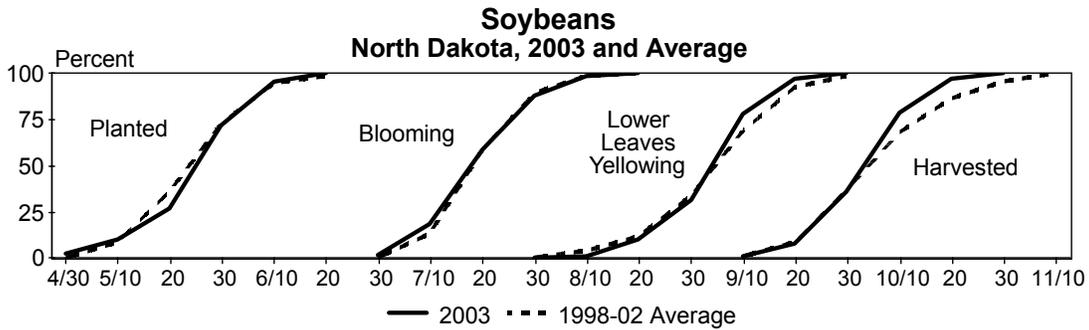
PERCENT PLANTED, North Dakota, 2002-2003 and 5-Year Average, 1998-2002

Crop	Year	April			May			June		
		10	20	30	10	20	30	10	20	
		----- Percent -----								
Spring Wheat	2003	6	15	42	55	73	92	100		
	2002		4	14	29	67	93	100		
	Average	1	5	25	48	72	91	98	100	
Durum Wheat	2003	1	4	16	27	48	83	97	100	
	2002		1	3	9	40	79	97	100	
	Average		1	7	23	50	80	95	100	
Oats	2003	1	5	29	48	67	91	100		
	2002		2	9	26	68	93	100		
	Average	1	3	19	44	72	91	98	100	
Barley	2003	1	5	29	45	69	93	100		
	2002		2	7	17	62	95	100		
	Average		2	16	38	66	90	97	100	
Flaxseed	2003			8	18	47	81	96	99	
	2002			1	9	51	90	100		
	Average			6	25	58	86	96	100	
Canola	2003		3	19	35	64	89	99		
	2002		1	5	22	73	98	100		
	Average		1	15	42	71	91	96	100	

PERCENT HARVESTED, North Dakota, 2002-2003 and 5-Year Average, 1998-2002

Crop	Year	July	August			September			October	
		30	10	20	30	10	20	30	10	20
		----- Percent -----								
Spring Wheat	2003	4	21	63	89	98	100			
	2002	3	18	38	56	75	94	100		
	Average	3	23	49	72	84	94	99	99 100	
Durum Wheat	2003	1	9	36	77	94	100			
	2002	1	3	12	24	50	79	90	98	
	Average		6	20	39	63	81	91	97 99	
Oats	2003	5	28	66	92	99	100			
	2002	6	29	48	70	86	97	100		
	Average	5	33	61	81	91	97	99	100	
Barley	2003	9	38	79	96	100				
	2002	2	15	39	66	84	97	100		
	Average	5	28	55	79	89	97	99		
Flaxseed	2003		2	16	47	82	93	99	100	
	2002		3	8	19	41	72	87	95 100	
	Average		2	12	31	53	74	88	95 99	
Canola	2003		9	39	72	93	99	100		
	2002		3	14	33	62	88	95	99 100	
	Average		5	22	50	72	89	96	99 100	

ROW CROP PLANTING AND HARVESTING PROGRESS



PERCENT PLANTED, North Dakota, 2002-2003 and 5-Year Average, 1998-2002

Crop	Year	April		May			June	
		20	30	10	20	30	10	20
		----- Percent -----						
Corn	2003	2	31	57	73	92	100	
	2002		13	36	75	92	100	
	Average	1	16	43	69	90	99	100
Soybeans	2003		3	10	27	72	96	100
	2002			2	40	85	99	100
	Average			9	36	73	95	99
Dry Edible Beans	2003			1	10	53	92	99
	2002				11	63	99	100
	Average			2	21	64	94	100
Potatoes	2003	2	14	26	49	79	95	100
	2002	3	10	25	56	88	99	100
	Average	1	12	37	64	89	99	100
Sunflower	2003			2	15	55	88	98
	2002			0	12	56	95	100
	Average			2	16	55	90	99
Sugarbeets	2003	8	51	83	93	99	100	
	2002	4	28	57	83	99	100	
	Average	6	45	69	86	97	100	

PERCENT HARVESTED, North Dakota, 2002-2003 and 5-Year Average, 1998-2002

Crop	Year	August	September				October			November		
		30	10	20	30	10	20	30	10	20	30	
		----- Percent -----										
Corn	2003			2	10	28	68	91	98	100		
	2002				5	16	33	61	85	93	98	
	Average			1	8	21	43	75	90	94	98	
Soybeans	2003		1	5	36	79	97	100				
	2002		1	8	36	62	81	93	100			
	Average		1	9	37	68	87	96	100			
Dry Edible Beans	2003	3	32	58	80	96	99	100				
	2002	1	12	37	63	85	94	95	100			
	Average	2	19	46	72	90	97	99	100			
Potatoes	2003	4	12	33	64	90	99	100				
	2002	5	14	32	59	88	100					
	Average	2	11	37	67	91	99	100				
Sunflower	2003				5	26	66	92	98	100		
	2002				2	11	29	50	75	88	98	
	Average				4	16	40	71	87	92	97	
Sugarbeets	2003		4	8	25	72	99	100				
	2002		0	1	14	75	99	100				
	Average		2	6	17	72	95	99				