

CHAPTER XIV

STATISTICS OF FERTILIZERS AND PESTICIDES

This chapter contains statistics on percentages of crop acres treated by various types of fertilizers and pesticides. Nitrogen, phosphate, and potash are the most common fertilizers; herbicides, insecticides, fungicides, and other chemicals are the main categories of pesticides. Other chemicals include soil fumigants, vine killers, and dessicants. The tables show data for field crops for 1997–2000, fruits for 1999, and vegetables for 2000. NASS collects data for field crops on an annual basis and data for fruits and vegetables on a bi-yearly alternating basis. The surveyed States are generally the major producing States for each crop shown in the tables and represent 65–95 percent of the U.S. planted acres, depending on the selected crop. Quantities and rates of active chemical ingredients applied to each crop at State levels are available in the NASS series of “Agricultural Chemical Usage” reports.

Table 14-1.—Field crops: Fertilizer, total acreage, and percent of area receiving applications, all States surveyed, 1997–2000¹

Crop	Nitrogen	Phosphate	Potash
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
1997:			
Corn	99	84	72
Cotton, Upland	90	67	58
Potatoes, Fall	100	98	91
Soybeans	20	28	33
Wheat, Durum	95	77	8
Wheat, Other Spring	92	82	25
Wheat, Winter	84	53	15
1998:			
Corn	98	83	66
Cotton, Upland	84	66	53
Potatoes, Fall	100	97	96
Soybeans	17	24	27
Wheat, Durum	94	76	5
Wheat, Other Spring	87	77	25
Wheat, Winter	89	63	22
1999:			
Corn	98	82	67
Cotton, Upland	86	59	52
Peanuts	64	70	88
Potatoes, Fall	100	98	88
Soybeans	18	26	28
Sunflower, All	90	43	8
Wheat, Durum	(2)	(2)	(2)
Wheat, Other Spring	(2)	(2)	(2)
Wheat, Winter	97	91	90
2000:			
Corn	98	84	66
Cotton, Upland	83	63	53
Potatoes, Fall	(2)	(2)	(2)
Rice	100	59	47
Soybeans	18	24	27
Sugarbeets	98	92	50
Wheat, Durum	86	66	5
Wheat, Other Spring	95	84	27
Wheat, Winter	87	54	17

¹ Refers to acres receiving one or more applications of a specific fertilizer ingredient. See tables 14-2 through 14-11 for surveyed States. Note: Acreage estimates are on page I-24 for corn, page II-1 for cotton, page III-13 for soybeans, and page I-1 for wheat. ² Data not available for all states for all years.

NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Table 14-2.—Corn: Pesticide usage, 1997–2000 ¹

State and Year	Percent treated and amount applied			
	Herbicide ²		Insecticide ³	
	Area applied	Pounds applied	Area applied	Pounds applied
	<i>Percent</i>	<i>Thousands</i>	<i>Percent</i>	<i>Thousands</i>
CO:..				
1998	90	1,595	29	530
1999	93	1,763	45	479
2000	97	1,501	59	505
IL:..				
1997	98	32,733	44	4,266
1998	94	31,723	31	1,996
1999	98	28,467	38	1,833
2000	100	28,190	43	3,131
IN:..				
1997	94	18,127	31	1,023
1998	99	18,373	45	1,595
1999	99	14,819	36	1,156
2000	99	15,460	30	797
IA:..				
1997	98	36,144	19	2,323
1998	98	31,911	18	1,534
1999	99	27,966	25	2,462
2000	100	24,158	16	635
KS:..				
1998	95	5,357	49	400
1999	98	6,619	32	385
2000	93	7,765	31	287
KY:..				
1998	99	4,174	*	*
1999	94	3,487	50	22
2000	95	2,600	26	65
MI:..				
1997	98	6,912	11	200
1998	97	5,740	17	299
1999	99	6,128	22	214
2000	99	5,658	10	131
MN:..				
1997	91	13,956	10	291
1998	97	14,248	10	353
1999	98	11,126	11	280
2000	99	10,597	8	369
MO:..				
1997	97	8,203	35	475
1998	95	7,718	44	291
1999	98	7,988	38	218
2000	87	5,988	20	114
NE:..				
1997	98	19,970	62	3,531
1998	93	19,459	44	1,667
1999	99	19,747	39	1,295
2000	97	16,862	55	1,470
NY:..				
2000	92	2,312	31	204
NC:..				
1998	96	2,150	32	283
1999	82	1,340	35	222
2000	93	1,732	46	363
ND:..				
2000	71	1,284	*	*
OH:..				
1997	100	12,971	18	711
1998	99	9,722	41	1,094
1999	99	10,136	7	98
2000	99	10,339	24	603
PA:..				
1998	97	4,436	44	262
2000	100	4,419	57	302
SD:..				
1997	93	6,346	10	317
1998	95	9,947	*	*
1999	95	5,862	18	520
2000	100	5,790	15	44
TX:..				
1998	94	2,520	68	1,191
1999	93	3,190	54	458
2000	81	2,039	55	426
WI:..				
1998	98	8,689	19	433
1998	97	7,939	24	593
1999	96	5,421	31	473
2000	95	6,410	20	365

¹ Data not available for all States for all years. ² Insufficient number of reports to publish data for fungicides and other chemicals. ³ Amount applied excludes Bt (bacillus thuringiensis). Note: Planted acres are on page I-24. * Insufficient number of reports to publish data.

NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Table 14-3.—Corn: Fertilizer usage, 1997–2000 ¹

State and Year	Percent treated and amount applied					
	Nitrogen		Phosphate		Potash	
	Area applied	Pounds applied	Area applied	Pounds applied	Area applied	Pounds applied
	<i>Percent</i>	<i>Millions</i>	<i>Percent</i>	<i>Millions</i>	<i>Percent</i>	<i>Millions</i>
CO:..						
1998	93	110.3	78	18.0	49	4.9
1999	98	165.6	65	30.3	16	3.4
2000	95	182.0	78	42.2	17	7.4
IL:..						
1997	99	1,689.5	87	747.9	87	1,046.8
1998	99	1,636.8	74	567.8	70	785.9
1999	98	1,639.8	80	603.2	81	1,003.0
2000	99	1,797.7	83	739.3	82	1,028.5
IN:..						
1997	100	876.7	96	410.9	82	525.9
1998	100	846.3	97	341.0	90	619.4
1999	99	881.8	92	299.1	88	593.3
2000	99	864.8	90	366.1	85	625.9
IA:..						
1997	99	1,464.3	75	575.4	75	668.0
1998	96	1,529.0	81	613.8	81	803.0
1999	98	1,502.8	75	604.9	75	734.7
2000	95	1,533.0	74	503.2	74	630.9
KS:..						
1998	100	514.3	83	101.4	21	21.6
1999	99	443.3	70	86.2	22	20.5
2000	100	506.0	78	97.3	39	37.1
KY:..						
1998	100	227.3	94	103.7	95	140.4
1999	100	234.9	81	66.6	50	64.5
2000	99	198.7	81	88.3	80	92.0
MI:..						
1997	100	309.2	91	117.9	94	263.8
1998	95	228.9	91	90.7	87	179.2
1999	100	277.9	92	91.9	91	174.4
2000	99	240.1	96	96.9	83	154.3
MN:..						
1997	97	750.9	79	270.4	81	309.6
1998	96	851.2	91	352.3	87	447.9
1999	92	702.9	90	299.6	86	312.9
2000	97	786.4	91	404.2	76	377.9
MO:..						
1997	100	447.1	84	131.3	84	176.4
1998	99	466.7	92	138.2	93	184.6
1999	100	422.3	84	136.1	84	169.4
2000	100	422.7	82	136.3	82	169.1
NE:..						
1997	100	1,313.1	80	205.2	26	33.3
1998	99	1,106.1	69	215.1	21	33.1
1999	99	1,115.2	75	232.8	18	22.1
2000	99	1,260.7	82	243.2	22	21.5
NY:..						
2000	99	71.2	89	45.6	78	41.8
NC:..						
1998	98	105.1	92	42.2	91	76.1
1999	99	83.2	82	36.3	88	66.3
2000	96	86.0	88	37.5	86	52.7
ND:..						
2000	98	103.0	80	38.8	29	8.7
OH:..						
1997	99	567.5	89	234.6	89	313.6
1998	100	587.5	96	243.0	74	310.3
1999	100	527.0	97	236.1	94	324.2
2000	100	572.8	92	224.2	83	287.0
PA:..						
1998	88	128.5	71	54.4	69	41.4
2000	95	103.8	87	59.9	67	35.9
SD:..						
1997	96	303.1	80	113.9	31	25.5
1998	94	305.9	78	117.4	25	21.5
1999	98	334.6	88	136.2	49	42.5
2000	99	418.9	92	153.6	39	36.1
TX:..						
1998	99	319.4	87	89.3	21	15.4
1999	100	304.5	80	74.5	40	22.4
2000	98	304.0	85	80.3	27	15.9
WI:..						
1997	98	285.2	97	154.0	93	244.1
1998	97	326.8	96	148.2	96	188.0
1999	98	305.1	82	104.2	91	177.8
2000	97	300.7	89	120.6	90	161.0

¹ Data not available for all States for all years. Note: Planted acres are on page I-24. NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Table 14-4.—Upland Cotton: Pesticide usage, 1997–2000 ¹

State and Year	Percent treated and amount applied							
	Herbicide		Insecticide ²		Fungicide		Other Chemicals	
	Area applied	Pounds applied	Area applied	Pounds applied	Area applied	Pounds applied	Area applied	Pounds applied
	Percent	Thousands	Percent	Thousands	Percent	Thousands	Percent	Thousands
AL:								
1997	100	1,667	85	469	17	22	69	482
1998	99	1,300	91	422	16	52	85	454
1999	99	1,154	87	436	30	130	78	617
2000	97	1,435	67	270	16	84	58	398
AZ:								
1997	87	534	85	705	*	*	86	770
1998	95	426	91	677	4	6	97	947
1999	90	519	60	360	**	**	95	1,361
2000	94	497	66	455	10	31	79	670
AR:								
1997	89	2,882	77	678	10	83	84	1,335
1998	93	2,119	98	886	19	71	93	1,490
2000	95	1,993	82	1,610	17	57	89	1,459
CA:								
1997	93	1,227	92	2,242	*	*	98	3,471
1998	99	879	98	800	*	*	99	1,611
1999	98	1,006	94	861	1	7	100	2,406
2000	99	1,475	90	1,051	1	9	99	2,714
GA:								
1997	100	4,623	90	895	**	**	85	4,397
1998	99	3,629	84	869	*	*	72	2,322
1999	98	4,249	92	816	*	3	78	2,992
2000	98	3,526	81	725	**	**	78	3,258
LA:								
1997	90	2,331	85	1,789	19	85	66	469
1998	96	1,655	98	2,385	22	76	83	499
1999	98	1,763	98	4,206	9	40	88	707
2000	96	1,825	98	4,795	23	229	88	749
MS:								
1997	100	3,124	100	3,972	30	447	97	1,556
1998	100	2,588	98	4,757	16	115	92	1,103
1999	100	3,821	98	6,580	17	180	99	1,980
2000	98	3,557	99	6,112	15	131	99	1,986
MO:								
1997	100	839	71	210	*	*	99	573
2000	94	677	90	360	*	*	97	695
NC:								
1997	97	1,832	92	339	*	*	96	1,093
1998	95	1,494	92	363	9	30	89	909
1999	96	2,079	91	533	6	42	57	996
2000	99	2,375	94	510	4	19	91	1,921
SC:								
1997	100	875	98	241	18	5	96	467
TN:								
1997	98	1,275	85	417	29	123	79	551
1998	100	1,127	97	1,297	37	61	93	547
1999	96	1,385	95	1,222	27	132	89	585
2000	99	1,347	100	4,333	20	77	93	691
TX:								
1997	97	6,401	62	6,327	**	**	53	2,398
1998	93	6,989	47	2,833	*	*	45	2,113
1999	97	7,081	76	23,417	1	49	32	1,840
2000	92	7,847	69	20,639	*	*	29	1,593

¹Data not available for all States for all years. ²Amount applied excludes Bt (bacillus thuringiensis). * Insufficient number of reports to publish data. ** No reports received for this pesticide class. Note: Planted acres are on page II-1.

NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Table 14-5.—Upland Cotton: Fertilizer usage, 1997–2000 ¹

State and Year	Percent treated and amount applied					
	Nitrogen		Phosphate		Potash	
	Area applied ²	Pounds applied	Area applied ²	Pounds applied	Area applied ²	Pounds applied
	Percent	Millions	Percent	Millions	Percent	Millions
AL:						
1997	100	47.8	93	26.8	95	40.1
1998	99	38.3	94	27.3	94	35.5
1999	97	46.5	94	36.3	95	45.3
2000	100	60.5	95	35.2	91	46.7
AZ:						
1997	99	41.8	29	5.2	4	0.6
1998	98	34.5	38	6.1	13	0.3
1999	99	39.6	22	5.0	15	0.7
2000	98	35.6	30	4.7	8	0.9
AR:						
1997	92	67.2	83	42.5	91	57.6
1998	98	82.4	88	33.8	88	61.6
1999	97	88.0	82	31.8	85	63.5
2000	100	84.2	78	30.5	84	66.1
CA:						
1997	96	122.7	25	13.4	26	16.7
1998	98	81.8	23	11.2	13	6.9
1999	99	92.6	51	19.1	19	11.1
2000	98	105.4	29	12.6	12	5.3
GA:						
1997	95	126.3	94	81.4	99	132.0
1998	96	119.6	90	71.3	92	123.4
1999	100	127.2	98	81.3	100	160.3
2000	96	124.9	94	77.6	93	117.7
LA:						
1997	98	48.5	71	22.8	76	33.8
1998	99	47.9	69	15.5	73	29.8
1999	100	52.4	43	14.7	45	18.9
2000	100	60.7	64	20.1	66	33.0
MS:						
1997	100	107.3	46	22.6	77	72.1
1998	97	98.5	51	27.6	67	62.9
1999	100	133.3	36	21.2	65	85.8
2000	100	147.7	44	29.5	68	86.1
MO:						
1997	100	42.6	72	10.0	95	28.1
2000	100	40.4	86	11.7	95	33.5
NC:						
1997	92	38.4	64	16.6	85	56.8
1998	98	60.2	90	35.0	93	71.6
1999	96	66.3	89	37.0	96	90.3
2000	96	76.0	80	34.9	91	98.5
SC:						
1997	100	26.8	100	15.8	100	34.2
TN:						
1997	100	44.8	99	27.4	99	42.9
1998	99	42.6	100	28.4	100	41.0
1999	100	51.2	99	30.2	100	50.9
2000	99	47.5	93	29.8	98	50.4
TX:						
1997	82	280.9	62	126.3	29	25.8
1998	68	237.7	56	122.0	27	28.5
1999	71	281.8	45	112.8	23	26.6
2000	63	263.4	54	136.9	26	31.1

¹ Data not available for all States for all years. ² Planted acres are on page II-1.
 NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Table 14-6.—Fall potatoes: Pesticide usage, 1997-1999¹

State and Year	Percent treated and amount applied							
	Herbicide		Insecticide ²		Fungicide		Other Chemicals	
	Area applied ³	Pounds applied	Area applied ³	Pounds applied	Area applied ³	Pounds applied	Area applied	Pounds applied
	Percent	Thousands	Percent	Thousands	Percent	Thousands	Percent	Thousands
CO.: 1999	86	175	76	39	98	387	57	14,056
ID.: 1997	92	962	92	1,057	100	2,233	59	40,356
1999	92	953	92	1,066	92	1,502	56	53,358
ME.: 1997	96	39	97	68	99	641	96	1,609
1999	100	25	97	29	100	553	24	89
MI.: 1999	100	101	100	52	99	609	56	137
MN.: 1997	28	35	99	84	98	816	82	113
1999	86	82	91	54	93	577	16	2,103
ND.: 1997	63	134	77	161	99	1,232	36	22
1999	83	94	95	121	99	966	5	1,315
OR.: 1997	94	142	85	178	93	346	69	8,306
1999	100	129	89	183	97	314	65	7,489
PA.: 1998	90	36	99	32	99	152	69	5
1999	94	35	99	47	95	125	3	4
WA.: 1997	85	264	99	644	95	1,084	71	9,658
1998	98	360	99	810	97	1,206	75	19,377
WI.: 1997	98	70	95	95	100	1,103	87	3,601
1998	96	85	97	119	99	1,065	91	2,538
1999	98	84	100	193	98	921	16	1,104

¹ Data not available for all States for all years. ² Amount applied excludes Bt (bacillus thuringiensis). ³ Planted acres are on page IV-22.

NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Table 14-7.—Fall potatoes: Fertilizer usage, 1997-1999¹

State and Year	Percent treated and amount applied					
	Nitrogen		Phosphate		Potash	
	Area applied	Pounds applied	Area applied	Pounds applied	Area applied	Pounds applied
	Percent	Millions	Percent	Millions	Percent	Millions
CO.: 1999	98	14.6	95	13.3	74	5.6
ID.: 1997	100	103.6	97	72.3	88	41.7
1999	100	91.0	99	78.5	82	42.7
IN.: 1999	100	0.6	100	0.5	100	0.5
ME.: 1997	100	12.9	100	13.3	100	13.5
1999	100	11.5	100	12.3	100	12.4
MI.: 1999	100	10.1	98	6.6	100	10.0
MN.: 1997	96	11.9	99	6.1	97	6.6
1999	99	8.0	91	5.3	91	9.6
ND.: 1997	100	16.7	96	11.7	80	7.7
1999	99	15.4	98	10.9	83	9.2
OR.: 1997	100	15.1	100	10.8	87	11.1
1999	100	13.5	100	8.2	91	7.5
PA.: 1998	100	2.1	97	1.6	96	2.1
1999	97	2.2	97	1.8	97	2.0
WA.: 1997	100	47.9	99	42.6	98	31.6
1999	100	55.5	99	40.7	97	43.7
WI.: 1997	100	15.0	100	9.5	100	22.2
1999	100	20.8	100	12.0	99	20.4

¹ Data not available for all states for all years. Note: Planted acres are on page IV-22.

NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Table 14-8.—Soybeans: Pesticide usage, 1997–2000¹

State and Year	Percent treated and amount applied ²			
	Herbicide		Insecticide ³	
	Area applied	Pounds applied	Area applied	Pounds applied
	<i>Percent</i>	<i>Thousands</i>	<i>Percent</i>	<i>Thousands</i>
AR:..				
1997	97	5,019	*	*
1998	75	3,058	4	37
1999	94	3,670	9	17
2000	86	2,918	3	4
DE:..				
1997	78	314	*	*
IL:..				
1997	98	11,136	*	*
1998	95	11,354	*	*
1999	96	10,290	*	20
2000	98	10,582	1	3
IN:..				
1997	99	7,062	**	**
1998	98	5,798	**	**
1999	89	5,750	**	**
2000	99	5,414	*	*
IA:..				
1997	99	13,691	**	**
1998	100	11,866	**	**
1999	99	11,995	**	**
2000	98	13,053	*	*
KS:..				
1997	94	2,947	*	*
1998	95	2,156	*	*
1999	97	3,273	*	1
2000	94	2,953	*	*
KY:..				
1997	91	1,460	*	*
1998	98	1,239	*	*
1999	94	1,037	*	*
2000	88	1,151	1	6
LA:..				
1997	90	1,843	29	331
1998	89	1,442	32	217
1999	94	1,123	53	229
2000	96	1,091	56	173
MI:..				
1997	98	2,452	**	**
1998	98	2,620	*	*
1999	97	2,342	**	**
2000	98	2,094	*	*
MN:..				
1997	96	6,902	**	**
1998	97	6,071	*	*
1999	97	6,203	**	**
2000	95	7,151	**	**
MS:..				
1997	98	2,453	*	*
1998	100	2,948	6	33
1999	99	2,967	9	78
2000	99	2,096	5	23
MO:..				
1997	94	5,521	**	*
1998	92	6,152	**	**
1999	97	5,556	**	**
2000	98	5,867	**	**
NE:..				
1997	99	4,093	*	*
1998	88	4,226	*	*
1999	96	4,758	1	10
2000	98	5,795	*	*
NC:..				
1997	98	1,625	35	130
1998	84	1,440	3	20
1999	88	1,283	3	3
2000	92	1,016	7	15
ND:..				
2000	99	2,046	**	**
OH:..				
1997	99	5,307	*	*
1998	99	5,435	*	*
1999	99	4,705	*	3
2000	98	4,586	1	2
PA:..				
1997	86	661	**	**
1999	99	429	11	20

See footnotes at end of table.

Table 14-8.—Soybeans: Pesticide usage, 1997–2000¹—Continued

State and Year	Percent treated and amount applied ²			
	Herbicide		Insecticide ³	
	Area applied	Pounds applied	Area applied	Pounds applied
	Percent	Thousands	Percent	Thousands
SD:				
1997	90	3,059	*	*
1998	96	3,706	*	*
2000	98	4,863	**	**
TN:				
1997	100	1,664	*	*
1998	98	1,926	*	*
1999	98	1,405	2	19
2000	95	1,319	1	8
WI:				
1997	100	998	**	**
2000	85	1,169	**	**

¹Data not available for all States for all years. ²Insufficient number of reports to publish data for fungicides and other chemicals. ³Amount applied excludes Bt (bacillus thuringiensis). *Insufficient number of reports to publish data. **No reports received for this pesticide class. Note: Planted acres are on page III-13.

NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Table 14-9.—Soybeans: Fertilizer usage, 1997–2000¹

State and Year	Percent treated and amount applied					
	Nitrogen		Phosphate		Potash	
	Area applied	Pounds applied	Area applied	Pounds applied	Area applied	Pounds applied
	Percent	Millions	Percent	Millions	Percent	Millions
AR:						
1997	6	9.3	29	60.8	30	71.4
1998	5	8.6	29	65.3	29	75.4
1999	17	17.3	43	78.0	40	90.0
2000	10	21.0	30	43.4	31	73.0
DE:						
1997	37	1.5	38	3.8	29	5.7
IL:						
1997	11	12.6	23	160.3	34	352.5
1998	7	17.2	12	78.7	24	321.4
1999	7	16.2	14	64.1	28	304.0
2000	11	16.8	16	77.5	29	286.0
IN:						
1997	16	40.8	22	65.2	36	213.0
1998	15	25.0	26	70.4	51	255.3
1999	28	33.6	36	105.3	36	219.0
2000	7	11.0	15	53.9	33	207.8
IA:						
1997	16	30.4	23	129.3	25	205.4
1998	10	20.4	13	62.1	14	79.0
1999	7	23.5	17	103.5	22	173.7
2000	15	81.0	22	110.1	22	138.0
KS:						
1997	20	12.1	18	14.8	15	18.9
1998	16	7.5	21	16.6	11	8.3
1999	22	14.9	22	19.4	15	7.6
2000	18	10.3	16	16.9	*	*
KY:						
1997	32	22.7	42	36.9	41	59.4
1998	35	17.0	58	58.9	63	73.3
1999	17	4.8	25	18.3	26	24.2
2000	13	7.7	40	31.7	39	37.7
LA:						
1997	13	5.8	23	13.8	23	21.3
1998	3	0.4	25	12.0	26	19.4
1999	5	1.4	14	7.2	11	6.8
2000	6	1.5	20	7.3	26	15.6
MI:						
1997	63	21.3	49	49.9	71	100.9
1998	72	24.3	73	54.6	75	99.5
1999	31	9.5	45	27.7	65	109.5
2000	37	11.1	40	44.8	72	131.2
MN:						
1997	16	15.2	20	55.6	22	141.5
1998	18	27.5	17	38.1	9	33.1
1999	13	18.7	13	29.5	13	54.5
2000	8	10.2	9	24.1	24	118.6
MS:						
1997	16	5.4	23	25.5	26	48.4
1998	5	2.1	10	10.0	16	23.2
1999	10	4.2	15	14.1	22	23.9
2000	9	3.4	19	14.3	20	23.5
MO:						
1997	15	17.2	28	60.4	35	136.2
1998	24	25.9	47	119.8	53	198.2
1999	15	11.7	23	54.8	23	87.3
2000	20	27.5	28	98.1	27	94.2

See footnotes at end of table.

Table 14-9.—Soybeans: Fertilizer usage, 1997–2000¹—Continued

State and Year	Percent treated and amount applied					
	Nitrogen		Phosphate		Potash	
	Area applied	Pounds applied	Area applied	Pounds applied	Area applied	Pounds applied
	<i>Percent</i>	<i>Millions</i>	<i>Percent</i>	<i>Millions</i>	<i>Percent</i>	<i>Millions</i>
NE:						
1997	31	19.5	31	45.9	16	11.3
1998	22	12.1	19	27.0	8	7.3
1999	25	17.8	25	31.7	16	17.0
2000	30	19.8	20	36.7	15	6.2
NC:						
1997	52	46.7	67	36.8	77	103.3
1998	36	12.4	34	19.4	39	47.3
1999	54	15.8	71	53.9	71	85.0
2000	38	12.6	62	64.7	47	47.7
ND:						
2000	46	27.8	41	25.3	*	*
OH:						
1997	16	11.9	26	56.8	60	308.4
1998	19	16.5	29	71.9	42	179.3
1999	21	14.4	35	81.6	47	205.6
2000	25	21.7	32	70.2	47	192.8
PA:						
1997	53	3.4	55	8.7	59	19.5
1999	37	2.8	41	7.5	43	10.0
SD:						
1997	35	43.3	34	42.2	18	14.5
1998	32	29.7	32	38.1	11	2.9
1999	47	41.3	47	88.3	19	21.3
2000	38	24.3	43	66.0	12	12.2
TN:						
1997	29	7.4	48	33.1	52	52.6
1998	19	4.5	36	20.7	39	29.4
1999	34	7.1	46	25.9	48	38.4
2000	18	3.0	29	14.3	31	22.2
WI:						
1997	53	8.2	54	11.7	69	56.0
2000	24	6.5	30	16.6	40	46.2

¹ Data not available for all States for all years. Note: Planted acres are on page III-13. * Insufficient number of reports to publish data.

NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Table 14-10.—Wheat: Pesticide usage, 1997–2000 ¹

State and Year	Percent treated and amount applied ²			
	Herbicide		Insecticide ³	
	Area applied	Pounds applied	Area applied	Pounds applied
	<i>Percent</i>	<i>Thousands</i>	<i>Percent</i>	<i>Thousands</i>
Winter.				
AR:				
2000 ..	41	239	**	**
CA:				
1998 ..	47	146	*	*
CO:				
1997 ..	64	803	13	321
1998 ..	61	610	*	*
2000 ..	23	281	*	*
GA:				
1998 ..	38	80	*	*
ID:				
1997 ..	98	631	**	**
1998 ..	88	495	*	*
2000 ..	89	411	4	15
IL:				
1997 ..	40	16	**	**
1998 ..	47	17	*	*
2000 ..	44	21	**	**
IN:				
1999 ..	39	28	*	*
KS:				
1997 ..	31	819	**	**
1998 ..	35	1,620	**	**
2000 ..	31	478	8	395
KY:				
2000 ..	51	57	8	15
LA:				
1998 ..	*	*	*	*
MS:				
1998 ..	55	78	*	*
MO:				
1997 ..	33	67	**	**
1998 ..	28	12	**	**
2000 ..	51	47	*	*
MT:				
1997 ..	88	1,089	*	*
1998 ..	89	889	**	**
2000 ..	91	745	*	*
NE:				
1997 ..	53	189	**	**
1998 ..	52	320	*	*
2000 ..	26	248	**	**
NC:				
1998 ..	60	92	13	11
2000 ..	65	206	19	3
OH:				
1997 ..	20	56	**	**
1998 ..	13	75	**	**
2000 ..	18	53	**	**
OK:				
1997 ..	38	435	13	234
1998 ..	42	827	6	89
2000 ..	25	94	*	*
OR:				
1997 ..	100	516	*	*
1998 ..	100	415	*	*
2000 ..	99	550	**	**
PA:				
1997 ..	21	8	*	*
SD:				
1997 ..	89	383	**	**
1998 ..	88	589	*	*
1999 ..	56	415	**	**
TX:				
1997 ..	24	181	18	351
1998 ..	27	435	7	177
1999 ..	12	441	1	26
WA:				
1997 ..	98	1,584	*	*
1998 ..	97	1,718	*	*
1999 ..	95	847	**	**

See footnotes at end of table.

Table 14-10.—Wheat: Pesticide usage, 1997–2000 ¹—Continued

State and Year	Percent treated and amount applied ²			
	Herbicide		Insecticide ³	
	Area applied	Pounds applied	Area applied	Pounds applied
	<i>Percent</i>	<i>Thousands</i>	<i>Percent</i>	<i>Thousands</i>
Durum.				
ND:				
1997 ..	93	2,221	2	12
1998 ..	98	2,631	*	*
2000 ..	97	2,807	*	*
Other				
Spring.				
ID:				
1998 ..	95	392	*	*
MN:				
1997 ..	94	1,434	*	*
1998 ..	97	1,396	11	65
2000 ..	92	1,845	*	*
MT:				
1997 ..	94	3,254	*	*
1998 ..	81	1,816	*	*
2000 ..	92	2,955	**	**
ND:				
1997 ..	88	4,583	*	*
1998 ..	98	4,053	7	176
2000 ..	97	4,205	*	*
OR:				
1998 ..	98	87	**	**
SD:				
1997 ..	86	886	**	**
1998 ..	73	698	*	*
2000 ..	93	619	**	**
WA:				
1998 ..	100	552	*	*

¹Data not available for all States for all years. ²Insufficient number of reports to publish data for fungicides and other chemicals. ³Amount applied excludes Bt (bacillus thuringiensis). *Insufficient number of reports to publish data. **No reports received for this pesticide class. Note: Planted acres are on page I-2.

NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Table 14-11.—Wheat: Fertilizer usage, 1997–2000¹

State and Year	Percent treated and amount applied					
	Nitrogen		Phosphate		Potash	
	Area applied	Pounds applied	Area applied	Pounds applied	Area applied	Pounds applied
	<i>Percent</i>	<i>Millions</i>	<i>Percent</i>	<i>Millions</i>	<i>Percent</i>	<i>Millions</i>
Winter.						
AR:.						
2000	92	110.1	28	12.3	28	16.0
CA:.						
1998	*	*	*	*	*	*
CO:.						
1997	68	69.0	39	18.7	*	*
1998	78	108.5	33	22.2	4	0.7
2000	87	85.2	14	5.6	*	*
GA:.						
1998	98	27.7	90	12.3	86	17.2
ID:.						
1997	98	105.4	62	19.4	11	4.3
1998	97	93.6	67	20.6	23	7
2000	90	75.5	54	12.1	13	2.7
IL:.						
1997	91	103.8	69	62.1	77	86.9
1998	98	119.9	82	78.5	70	94.7
2000	98	80.1	82	55.5	78	65.7
IN:.						
1999	97	46.3	91	31.6	90	39.0
KS:.						
1997	78	509.0	56	186.8	8	19.5
1998	92	596.7	74	248.3	13	50.7
2000	94	522.9	65	178.7	6	11.2
KY:.						
2000	80	52.0	62	25.9	60	29.2
LA:.						
1998	91	9.2	32	1.6	30	1.8
MS:.						
1998	100	22.2	14	1.4	14	1.7
MO:.						
1997	92	98.2	81	45.4	70	49.4
1998	98	138.4	86	51.1	86	74.9
2000	96	86.8	76	39.9	84	59.1
MT:.						
1997	95	64.5	78	31.4	23	4.3
1998	90	67.9	88	30.7	31	5.1
2000	82	74.2	77	34.0	43	8.2
NE:.						
1997	92	94.6	74	47.8	*	*
1998	85	69.9	59	25.3	12	1
2000	90	76.5	68	31.5	*	*
NC:.						
1998	91	63.9	76	24.1	84	53.8
2000	88	78.3	48	15.8	56	30.9
OH:.						
1997	100	93.1	92	63.7	98	87.6
1998	100	106.9	93	66.8	94	80.2
2000	94	107.0	81	64.1	82	74.0
OK:.						
1997	90	317.5	47	83.6	7	6.4
1998	95	381.0	64	130.8	15	10.7
2000	97	393.3	62	148.4	5	8.3
OR:.						
1997	100	75.3	15	4.7	*	*
1998	99	57.8	9	1.7	1	10.7
2000	99	46.1	11	1.8	7	1.4
PA:.						
1997	81	7.3	60	5.2	59	5.2
SD:.						
1997	78	38.7	58	15.3	*	*
1998	94	79.7	92	36.6	*	*
2000	91	60.8	61	26.6	12	1.3
TX:.						
1997	78	267.2	36	49.1	16	10.8
1998	75	337.2	50	111.7	22	24.6
2000	55	280.2	35	79.7	14	32.0
WA:.						
1997	98	145.4	34	16.5	12	7.6
1998	100	155.8	30	14.7	10	3.8
2000	100	111.7	30	10.2	6	1.3
Durum.						
ND:.						
1997	95	170.9	77	48.7	8	4.1
1998	98	175.0	79	49.0	3	1.7
2000	86	173.8	66	47.6	5	2.1

See footnotes at end of table.

Table 14-11.—Wheat: Fertilizer usage, 1997–2000¹—Continued

State and Year	Percent treated and amount applied					
	Nitrogen		Phosphate		Potash	
	Area applied	Pounds applied	Area applied	Pounds applied	Area applied	Pounds applied
	<i>Percent</i>	<i>Millions</i>	<i>Percent</i>	<i>Millions</i>	<i>Percent</i>	<i>Millions</i>
Other ID:..						
1998	96	59.4	83	17.9	33	2.9
MN:..						
1997	98	209.1	91	77.4	73	73.9
1998	100	166.5	97	65.3	64	37.8
2000	94	169.8	85	51.8	73	29.3
MT:..						
1997	79	153.5	66	68.2	15	10.2
1998	61	129.6	55	64.5	22	10.3
2000	90	167.6	84	75.5	36	15.6
ND:..						
1997	99	621.8	92	248.3	24	43.8
1998	97	472.8	87	166.8	20	9.0
2000	97	501.8	83	170.1	12	13.3
SD:..						
1997	90	140.2	70	61.6	*	*
1998	84	92.2	66	45.0	11	5.7
2000	95	98.1	83	36.7	12	2.8

¹ Data not available for all States for all years. * Insufficient number of reports to publish data. Note: Planted acres are on page I-2.

NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Table 14-12.—Fruits: Percent of acres receiving applications, for surveyed States, 1999¹

Crop	Herbicide	Insecticide	Fungicide
	<i>Percent</i>		
Almonds	86	85	82
Apples	60	97	85
Apricots	36	74	74
Avocados	58	42	*
Blackberries	88	65	90
Blueberries	80	86	88
Cherries, Sweet	43	87	87
Cherries, Tart	62	98	98
Dates	*	*	*
Figs	55	*	*
Grapefruit	91	85	85
Grapes	75	76	81
Hazelnuts	91	85	39
Kiwifruit	26	*	*
Lemons	67	76	37
Limes	42	95	90
Nectarines	80	93	91
Olives	70	16	43
Oranges	89	84	66
Peaches	58	88	88
Pears	48	91	86
Pecans	44	66	47
Pistachios	91	76	67
Plums	60	79	45
Prunes	41	62	57
Raspberries	91	83	96
Tangelos	96	98	87
Tangerines	79	80	64
Temples	94	60	59
Walnuts	58	68	56

¹ Refers to acres receiving one or more applications of a specific agricultural chemical. * Insufficient number of reports to publish data.

NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Table 14-13.—Vegetables: Percent of acres receiving applications, for surveyed States, 2000¹

Crop	Herbicide	Insecticide	Fungicide
Artichokes	58	73	*
Asparagus	84	84	42
Beans, Lima, Fresh	94	38	2
Beans, Lima, Processing ...	53	71	7
Beans, Snap, Fresh	53	89	77
Beans, Snap, Processing ...	96	81	57
Beets	98	*	*
Broccoli	51	92	15
Brussels Sprouts	*	74	75
Cabbage, Fresh	64	96	60
Cabbage, Kraut	85	99	6
Carrots, Fresh	58	13	49
Carrots, Processing	77	54	65
Cauliflower	48	94	9
Celery	75	97	87
Collards	55	87	35
Corn, Sweet, Fresh	79	84	38
Corn, Sweet, Processing	90	73	22
Cucumbers, Fresh	31	75	79
Cucumbers, Pickles	85	40	45
Eggplant	41	89	81
Garlic	45	29	61
Greens, Mustard	40	86	52
Greens, Turnip	55	72	44
Kale	54	88	45
Lettuce, Head	57	92	54
Lettuce, Other	74	93	66
Melons, Cantaloupe	43	74	60
Melons, Honeydew	12	80	26
Melons, Watermelon	52	47	79
Okra	28	70	27
Onions, Dry	83	72	80
Peas, Green, Processing ...	94	53	5
Peppers, Bell	54	93	74
Pumpkins	57	60	59
Radishes	2	66	17
Spinach, Fresh	75	85	78
Spinach, Processing	38	86	44
Squash	38	72	60
Strawberries	39	81	84
Tomatoes, Fresh	63	87	86
Tomatoes, Processing	78	64	73

¹Refers to acres receiving one or more applications of a specific agricultural chemical. * Insufficient number of reports to publish data.

NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.