

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 desiccants. The tables show data for field crops for 1994–98, fruits for 1997, and vegetables for 1996. 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, 1995–98¹

Crop	Nitrogen	Phosphate	Potash
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
1995:			
Corn	97	81	70
Cotton, Upland	87	56	40
Potatoes, Fall	99	98	89
Soybeans	17	22	25
Wheat, Winter	86	54	16
Wheat, Durum	92	78	10
Wheat, Other Spring	87	78	23
1996:			
Corn	98	85	73
Cotton, Upland	77	55	43
Potatoes, Fall	99	97	90
Soybeans	15	25	27
Wheat, Winter	86	51	4
Wheat, Durum	93	73	8
Wheat, Other Spring	89	79	24
1997:			
Corn	99	84	72
Cotton, Upland	90	67	58
Potatoes, Fall	100	98	91
Soybeans	20	28	33
Wheat, Winter	84	53	15
Wheat, Durum	95	77	8
Wheat, Other Spring	92	82	25
1998:			
Corn	99	70	21
Cotton, Upland	84	66	53
Potatoes, Fall	100	97	96
Soybeans	6	10	16
Wheat, Winter	98	86	86
Wheat, Durum	94	76	5
Wheat, Other Spring	87	77	25

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.

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Table 14-2.—Corn: Pesticide usage, 1995–98¹

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
DE:.....				
1995	96	427	43	26
GA:.....				
1995	89	712	19	88
IL:.....				
1995	98	30,811	28	2,118
1996	99	34,223	27	2,143
1997	98	32,733	44	4,266
1998	94	31,723	31	1,996
IN:.....				
1995	97	16,842	20	759
1996	98	18,856	35	1,466
1997	94	18,127	31	1,023
1998	99	18,373	45	1,595
IA:.....				
1995	99	32,957	28	2,821
1996	99	36,109	17	1,779
1997	98	36,144	19	2,323
1998	98	31,911	18	1,534
KS:.....				
1995	92	4,397	39	645
1996	94	5,784	40	515
1998	95	5,357	49	400
KY:.....				
1995	94	3,537	15	56
1996	99	4,159	24	43
1998	99	4,174	*	*
MI:.....				
1995	100	6,791	18	370
1996	98	7,250	21	318
1997	98	6,912	11	200
1998	97	5,740	17	299
MN:.....				
1995	98	15,822	6	400
1996	97	17,819	13	614
1997	91	13,956	10	291
1998	97	14,248	10	353
MO:.....				
1995	94	4,443	30	242
1996	98	7,547	27	492
1997	97	8,203	35	475
1998	95	7,718	44	291
NE:.....				
1995	95	18,804	54	3,104
1996	98	19,817	51	3,068
1997	98	19,970	62	3,531
1998	93	19,459	44	1,667
NC:.....				
1995	98	1,679	29	286
1996	97	2,565	37	376
1998	96	2,150	32	283
OH:.....				
1995	98	10,233	17	419
1996	100	10,029	28	591
1997	100	12,971	18	711
1998	99	9,722	41	1,094
PA:.....				
1995	93	4,169	29	295
1996	98	4,371	54	419
1998	97	4,436	44	262
SC:.....				
1996	98	1,017	26	84
SD:.....				
1995	92	4,691	7	153
1996	91	7,091	25	422
1997	93	6,346	10	317
1998	95	9,947	*	*
TX:.....				
1995	91	2,840	58	843
1996	91	2,770	74	712
1998	94	2,520	68	1,191
WI:.....				
1995	96	8,487	25	830
1996	93	7,570	37	1,176
1997	98	8,689	19	433
1998	97	7,939	24	593

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.

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Table 14-3.—Corn: Fertilizer usage, 1995–98¹

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>Percenta</i>	<i>Millions</i>
CO.: 1998	93	110.3	78	18.0	49	4.9
DE.: 1995	90	13.2	87	8.7	78	11.8
GA.: 1995	100	54.1	96	30.4	96	33.7
IL.: 1995	99	1,543.1	83	635.3	84	902.9
1996	100	1,823.9	79	737.5	83	1,056.0
1997	99	1,689.5	87	747.9	87	1,046.8
1998	99	1,636.8	74	567.8	70	785.9
IN.: 1995	97	691.6	89	324.4	82	476.1
1996	100	774.7	97	346.1	88	542.4
1997	100	876.7	96	410.9	82	525.9
1998	100	846.3	97	341.0	90	619.4
IA.: 1995	97	1,364.6	77	534.5	76	643.0
1996	98	1,631.7	83	627.7	81	786.1
1997	99	1,464.3	75	575.4	75	668.0
1998	96	1,529.0	81	613.8	81	803.0
KS.: 1995	99	306.1	70	59.1	24	18.4
1996	98	416.5	83	79.5	29	26.1
1998	100	514.3	83	101.4	21	21.6
KY.: 1995	98	196.5	76	72.2	71	74.0
1996	98	186.9	86	87.2	89	94.1
1998	100	227.3	94	103.7	95	140.4
MI.: 1995	99	306.8	85	104.8	85	215.1
1996	100	307.9	90	112.7	85	226.5
1997	100	309.2	91	117.9	94	263.8
1998	95	228.9	91	90.7	87	179.2
MN.: 1995	96	755.6	87	294.1	85	367.5
1996	97	784.4	94	375.6	86	420.9
1997	97	750.9	79	270.4	81	309.6
1998	96	851.2	91	352.3	87	447.9
MO.: 1995	98	234.3	73	63.6	68	84.4
1996	97	398.5	88	132.7	87	163.5
1997	100	447.1	84	131.3	84	176.4
1998	99	466.7	92	138.2	93	184.6
NE.: 1995	99	1,097.2	68	167.4	29	39.3
1996	98	1,174.0	79	227.6	39	75.0
1997	100	1,313.1	80	205.2	26	33.3
1998	99	1,106.1	69	215.1	21	33.1
NC.: 1995	98	169.2	93	61.6	92	62.5
1996	99	113.1	91	53.6	89	88.7
1998	98	105.1	92	42.2	91	76.1
OH.: 1995	100	539.5	90	208.4	88	284.9
1996	100	425.4	97	245.8	86	244.0
1997	99	567.5	89	234.6	89	313.6
1998	100	587.5	96	243.0	74	310.3
PA.: 1995	93	97.5	87	58.8	85	49.2
1996	97	112.2	79	67.0	75	43.6
1998	88	128.5	71	54.4	69	41.4
SC.: 1996	100	46.0	97	21.8	100	42.3
SD.: 1995	90	195.5	72	71.7	29	15.7
1996	88	312.3	77	105.7	39	31.8
1997	96	303.1	80	113.9	31	25.5
1998	94	305.9	78	117.4	25	21.5
TX.: 1995	99	284.8	78	74.9	34	18.0
1996	99	284.5	79	61.6	43	25.4
1998	99	319.4	87	89.3	21	15.4
WI.: 1995	97	283.0	94	149.1	92	209.3
1996	94	297.0	89	134.6	88	209.7
1997	98	285.2	97	154.0	93	244.1
1998	97	326.8	96	148.2	96	188.0

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) 720-3570.

Table 14-4.—Upland Cotton: Pesticide usage, 1995-98¹

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
AZ:								
1995	89	484	97	1,709	*	*	92	1,726
1996	75	357	89	1,029	**	**	71	1,703
1997	87	534	85	705	*	*	86	770
1998	95	426	91	677	4	6	97	947
AR:								
1995	98	4,208	84	1,527	20	201	55	781
1996	99	2,750	93	1,303	28	157	91	1,206
1997	89	2,882	77	678	10	83	84	1,335
1998	93	2,119	98	886	19	71	93	1,490
CA:								
1995	88	1,861	96	2,835	*	*	96	6,713
1996	90	1,856	97	2,031	*	*	95	5,180
1997	93	1,227	92	2,242	*	*	98	3,471
1998	99	879	98	800	*	*	99	1,611
GA:								
1996	100	4,079	73	633	**	**	48	1,234
1997	100	4,623	90	895	**	**	85	4,397
1998	99	3,629	84	869	*	*	72	2,322
LA:								
1995	98	2,400	98	3,176	17	71	70	752
1996	81	1,957	97	1,486	17	89	69	546
1997	90	2,331	85	1,789	19	85	66	469
1998	96	1,655	98	2,385	22	76	83	499
MS:								
1995	98	6,234	93	5,691	30	350	91	1,951
1996	99	3,981	95	2,417	7	45	99	2,541
1997	100	3,124	100	3,972	30	447	97	1,556
1998	100	2,588	98	4,757	16	115	92	1,103
MO:								
1997	100	839	71	210	*	*	99	573
NC:								
1997	97	1,832	92	339	*	*	96	1,093
1998	95	1,494	92	363	9	30	89	909
SC:								
1997	100	875	98	241	18	5	96	467
TN:								
1996	100	1,889	89	505	33	97	87	732
1997	98	1,275	85	417	29	123	79	551
1998	100	1,127	97	1,297	37	61	93	547
TX:								
1995	98	7,430	61	5,729	*	*	36	1,654
1996	90	5,692	68	5,832	*	*	39	2,064
1997	97	6,401	62	6,327	**	**	53	2,398
1998	93	6,989	47	2,833	*	*	45	2,113

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) 720-3570.

Table 14-5.—Upland Cotton: Fertilizer usage, 1995–98¹

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>
AL:						
1997	100	47.8	93	26.8	95	40.1
1998	99	38.3	94	27.3	94	35.5
AZ:						
1995	95	66.9	34	8.1	*	*
1996	98	45.8	43	6.6	11	1.6
1997	99	41.8	29	5.2	4	0.6
1998	98	34.5	38	6.1	13	0.3
AR:						
1995	97	114.6	74	39.4	85	75.1
1996	97	94.0	66	25.2	71	49.3
1997	92	67.2	83	42.5	91	57.6
1998	98	82.4	88	33.8	88	61.6
CA:						
1995	99	193.3	40	29.5	21	17.8
1996	96	168.1	37	30.6	16	9.5
1997	96	122.7	25	13.4	26	16.7
1998	98	81.8	23	11.2	13	6.9
GA:						
1996	99	139.3	99	76.7	97	139.1
1997	95	126.3	94	81.4	99	132.0
1998	96	119.6	90	71.3	92	123.4
LA:						
1995	88	111.9	42	21.4	48	38.1
1996	91	60.1	64	25.7	67	39.5
1997	98	48.5	71	22.8	76	33.8
1998	99	47.9	69	15.5	73	29.8
MS:						
1995	100	163.2	40	31.5	60	74.7
1996	98	110.4	27	14.0	56	63.4
1997	100	107.3	46	22.6	77	72.1
1998	97	98.5	51	27.6	67	62.9
MO:						
1997	100	42.6	72	10.0	95	28.1
NC:						
1997	92	38.4	64	16.6	85	56.8
1998	98	60.2	90	35.0	93	71.6
SC:						
1997	100	26.8	100	15.8	100	34.2
TN:						
1996	100	47.8	99	32.0	99	47.1
1997	100	44.8	99	27.4	99	42.9
1998	99	42.6	100	28.4	100	41.0
TX:						
1995	79	312.4	63	151.8	32	31.1
1996	55	252.2	47	105.2	20	23.6
1997	82	280.9	62	126.3	29	25.8
1998	68	237.7	56	122.0	27	28.5

¹ Data not available for all States for all years. * Insufficient reports to publish data for one or more of the fertilizer nutrients. Note: Planted acres are on page II-1.

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Table 14-6.—Fall potatoes: Pesticide usage, 1995–98 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
	<i>Percent</i>	<i>Thousands</i>	<i>Percent</i>	<i>Thousands</i>	<i>Percent</i>	<i>Thousands</i>	<i>Percent</i>	<i>Thousands</i>
CO:								
1995	89	223	65	21	94	140	26	2,192
ID:								
1995	93	1,125	76	771	63	681	41	29,233
1996	90	1,131	73	649	85	1,089	39	30,529
1997	92	962	92	1,057	100	2,233	59	40,356
ME:								
1995	96	43	100	66	100	629	93	358
1996	98	49	90	46	100	737	98	580
1997	96	39	97	68	99	641	96	1,609
MI:								
1995	85	117	100	90	96	602	62	436
MN:								
1995	66	94	90	95	100	567	71	669
1997	28	35	99	84	98	816	82	113
NY:								
1995	86	52	93	68	91	211	65	16
ND:								
1995	60	128	100	263	100	759	41	1,671
1997	63	134	77	161	99	1,232	36	22
OR:								
1995	92	134	92	233	90	323	64	5,652
1997	94	142	85	178	93	346	69	8,306
PA:								
1995	91	53	95	38	95	175	54	12
1998	90	36	99	32	99	152	69	5
WA:								
1995	93	305	98	694	92	1,458	77	16,981
1996	93	322	94	485	85	986	72	12,064
1997	85	264	99	644	95	1,084	71	9,658
WI:								
1995	94	100	97	214	100	1,000	89	2,654
1997	98	70	95	95	100	1,103	87	3,601
1998	96	85	97	119	99	1,065	91	2,538

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

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Table 14-7.—Fall potatoes: Fertilizer usage, 1995–98 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:						
1995	100	19.9	99	15.3	86	5.9
ID:						
1995	100	98.6	100	73.7	84	42.5
1996	100	84.4	99	80.6	85	40.7
1997	100	103.6	97	72.3	88	41.7
ME:						
1995	99	13.7	99	13.9	99	14.3
1996	100	13.0	99	13.4	100	13.6
1997	100	12.9	100	13.3	100	13.5
MI:						
1995	100	10.3	98	6.7	100	13.3
MN:						
1995	93	9.6	99	8.1	87	9.8
1997	96	11.9	99	6.1	97	6.6
NY:						
1995	100	3.8	100	5.6	100	5.3
ND:						
1995	100	20.1	94	10.2	89	13.4
1997	100	16.7	96	11.7	80	7.7
OR:						
1995	98	12.2	96	9.2	87	7.5
1997	100	15.1	100	10.8	87	11.1
PA:						
1995	98	2.4	95	2.0	95	2.5
1998	100	2.1	97	1.6	96	2.1
WA:						
1995	100	44.1	99	36.3	91	32.4
1996	95	44.3	92	29.4	91	30.2
1997	100	47.9	99	42.6	98	31.6
WI:						
1995	100	16.4	98	11.9	100	27.5
1997	100	15.0	100	9.5	100	22.2

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) 720-3570.

Table 14-8.—Soybeans: Pesticide usage, 1995–98 ¹

State and Year	Percent treated and amount applied ²			
	Herbicide		Insecticide ³	
	Area applied	Pounds applied	Area applied	Pounds applied
	Percent	Thousands	Percent	Thousands
AR:				
1995	91	3,564	**	**
1996	92	4,491	*	*
1997	97	5,019	*	*
1998	75	3,058	4	37
DE:				
1997	78	314	*	*
GA:				
1995	87	245	34	69
IL:				
1995	98	10,181	**	**
1996	97	10,670	**	**
1997	98	11,136	*	*
1998	95	11,354	*	*
IN:				
1995	99	6,019	*	*
1996	97	5,845	*	*
1997	99	7,062	**	**
1998	98	5,798	**	**
IA:				
1995	100	8,936	**	**
1996	99	10,821	*	*
1997	99	13,691	**	**
1998	100	11,866	**	**
KS:				
1997	94	2,947	*	*
1998	95	2,156	*	*
KY:				
1995	98	1,377	**	**
1997	91	1,460	*	*
1998	98	1,239	*	*
LA:				
1995	95	1,394	38	241
1996	94	1,645	32	161
1997	90	1,843	29	331
1998	89	1,442	32	217
MI:				
1997	98	2,452	**	**
1998	98	2,620	*	*
MN:				
1995	99	5,471	**	**
1996	98	7,826	**	**
1997	96	6,902	**	**
1998	97	6,071	*	*
MS:				
1995	99	2,587	*	*
1996	99	2,287	*	*
1997	98	2,453	*	*
1998	100	2948	6	33
MO:				
1995	94	4,918	*	*
1996	98	5,373	*	*
1997	94	5,521	**	*
1998	92	6,152	**	**
NE:				
1995	96	3,001	*	*
1996	99	3,459	*	*
1997	99	4,093	*	*
1998	88	4,226	*	*
NC:				
1995	91	1,228	10	17
1997	98	1,625	35	130
1998	84	1,440	3	20
OH:				
1995	98	5,923	*	*
1996	98	5,692	*	*
1997	99	5,307	*	*
1998	99	5,435	*	*
PA:				
1997	86	661	**	**
SD:				
1997	90	3,059	*	*
1998	96	3,706	*	*
TN:				
1995	100	1,595	*	*
1996	100	1,770	*	*
1997	100	1,664	*	*
1998	98	1,926	*	*
WI:				
1996	99	750	*	*
1997	100	998	**	**

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*). * Insufficient number of reports to publish data. ** No reports received for this pesticide class. Note: Planted acres are on page III-13.

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Table 14-9.—Soybeans: Fertilizer usage, 1995–98¹

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:.....						
1995	16	25.5	28	47.9	30	66.5
1996	9	8.2	45	76.4	43	90.5
1997	6	9.3	29	60.8	30	71.4
1998	5	8.6	29	65.3	29	75.4
DE:.....						
1997	37	1.5	38	3.8	29	5.7
GA:.....						
1995	61	6.0	67	10.8	66	13.0
IL:.....						
1995	17	39.4	26	184.9	31	337.5
1996	15	32.4	23	128.3	34	329.6
1997	11	12.6	23	160.3	34	352.5
1998	7	17.2	12	78.7	24	321.4
IN:.....						
1995	16	16.7	21	46.1	34	181.6
1996	23	37.9	33	79.1	44	240.7
1997	16	40.8	22	65.2	36	213.0
1998	15	25.0	26	70.4	51	255.3
IA:.....						
1995	10	26.4	11	44.0	12	74.0
1996	8	19.5	12	55.2	14	99.3
1997	16	30.4	23	129.3	25	205.4
1998	10	20.4	13	62.1	14	79.0
KS:.....						
1997	20	12.1	18	14.8	15	18.9
1998	16	7.5	21	16.6	11	8.3
KY:.....						
1995	41	15.0	46	32.6	46	40.1
1997	32	22.7	42	36.9	41	59.4
1998	35	17.0	58	58.9	63	73.3
LA:.....						
1995	5	1.7	16	7.2	16	9.9
1996	4	0.7	36	17.1	34	26.0
1997	13	5.8	23	13.8	23	21.3
1998	3	0.4	25	12.0	26	19.4
MI:.....						
1997	63	21.3	49	49.9	71	100.9
1998	72	24.3	73	54.6	75	99.5
MN:.....						
1995	15	61.8	15	44.8	17	77.0
1996	10	9.2	14	38.4	10	42.9
1997	16	15.2	20	55.6	22	141.5
1998	18	27.5	17	38.1	9	33.1
MS:.....						
1995	6	1.5	16	13.8	22	24.6
1996	11	2.5	18	14.0	17	19.4
1997	16	5.4	23	25.5	26	48.4
1998	5	2.1	10	10.0	16	23.2
MO:.....						
1995	13	34.3	20	50.8	20	74.4
1996	23	20.5	25	54.9	28	81.3
1997	15	17.2	28	60.4	35	136.2
1998	24	25.9	47	119.8	53	198.2
NE:.....						
1995	20	25.4	16	18.4	11	4.6
1996	28	10.2	50	64.4	11	5.3
1997	31	19.5	31	45.9	16	11.3
1998	22	12.1	19	27.0	8	7.3
NC:.....						
1995	44	21.1	42	21.7	46	45.8
1997	52	46.7	67	36.8	77	103.3
1998	36	12.4	34	19.4	39	47.3
OH:.....						
1995	23	13.1	29	58.8	37	126.6
1996	20	30.4	24	50.1	36	164.8
1997	16	11.9	26	56.8	60	308.4
1998	19	16.5	29	71.9	42	179.3
PA:.....						
1997	53	3.4	55	8.7	59	19.5
SD:.....						
1997	35	43.3	34	42.2	18	14.5
1998	32	29.7	32	38.1	11	2.9
TN:.....						
1995	19	6.8	36	21.9	36	26.1
1996	27	12.8	43	27.5	53	51.5
1997	29	7.4	48	33.1	52	52.6
1998	19	4.5	36	20.7	39	29.4
WI:.....						
1997	53	8.2	54	11.7	69	56.0

¹ Data not available for all States for all years. Note: Planted acres are on page III-13. NASS, Environmental, Economics, and Demographics Branch, (202) 720-3570.

Table 14-10.—Wheat: Pesticide usage, 1995-98¹

State and Year	Percent treated and amount applied ²				State and Year	Percent treated and amount applied ²			
	Herbicide		Insecticide ³			Herbicide		Insecticide ³	
	Area applied	Pounds applied	Area applied	Pounds applied		Area applied	Pounds applied	Area applied	Pounds applied
	Percent	Thousands	Percent	Thousands		Percent	Thousands	Percent	Thousands
Winter.					1995	98	513	*	*
CA:.					1996	99	503	*	*
1998	47	146	*	*	1997	100	516	*	*
CO:.					1998	100	415	*	*
1995	51	422	*	*	PA:.				
1996	61	756	11	139	1997	21	8	*	*
1997	64	803	13	321	SD:.				
1998	61	610	*	*	1995	63	368	*	*
GA:.					1996	65	390	*	*
1998	38	80	*	*	1997	89	383	**	**
ID:.					1998	88	589	*	*
1995	90	446	*	*	TX:.				
1996	80	433	**	**	1995	32	218	23	253
1997	98	631	**	**	1996	27	319	38	447
1998	88	495	*	*	1997	24	181	18	351
IL:.					1998	27	435	7	177
1995	26	16	*	*	WA:.				
1997	40	16	**	**	1995	93	1,067	**	**
1998	47	17	*	*	1996	96	1,304	*	*
KS:.					1997	98	1,584	*	*
1995	61	1,095	*	*	1998	97	1,718	*	*
1996	47	1,304	7	212	Durum.				
1997	31	819	**	**	ND:.				
1998	35	1,620	**	**	1995	96	1,821	*	*
LA:.					1996	98	2,087	*	*
1998	*	*	*	*	1997	93	2,221	2	12
MS:.					1998	98	2,631	*	*
1998	55	78	*	*	Other.				
MO:.					Idaho:.				
1995	6	14	**	**	1998	95	392	*	*
1997	33	67	**	**	MN:.				
1998	28	12	**	**	1995	97	1,410	*	*
MT:.					1996	96	1,547	*	*
1995	99	685	*	*	1997	94	1,434	*	*
1996	93	1,385	*	*	1998	97	1,396	11	65
1997	88	1,089	*	*	MT:.				
1998	89	889	**	**	1995	90	2,118	**	**
NE:.					1996	76	2,122	**	**
1995	53	235	**	**	1997	94	3,254	*	*
1996	61	332	**	*	1998	81	1,816	*	*
1997	53	189	**	**	ND:.				
1998	52	320	*	*	1995	94	4,165	*	*
NC:.					1996	92	6,170	*	*
1998	60	92	13	11	1997	88	4,583	*	*
OH:.					1998	98	4,053	7	176
1995	16	51	*	*	OR:.				
1997	20	56	**	**	1998	98	87	**	**
1998	13	75	**	**	SD:.				
OK:.					1995	97	431	**	**
1995	50	278	17	255	1997	86	886	**	**
1996	35	655	27	391	1998	73	698	*	*
1997	38	435	13	234	WA:.				
1998	42	827	6	89	1998	100	552	*	*
OR:.									

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). * 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) 720-3570.

Table 14-11.—Wheat: Fertilizer usage, 1995–98 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>
Winter.						
CO:..						
1995	62	81.0	23	16.7	*	*
1996	77	70.2	38	18.0	*	*
1997	68	69.0	39	18.7	*	*
1998	78	108.5	33	22.2	4	0.7
GA:..						
1998	98	27.7	90	12.3	86	17.2
ID:..						
1995	94	81.8	69	21.7	8	1.1
1996	97	96.2	48	22.1	15	5.0
1997	98	105.4	62	19.4	11	4.3
1998	97	93.6	67	20.6	23	7
IL:..						
1995	95	121.7	84	89.2	71	89.9
1997	91	103.8	69	62.1	77	86.9
1998	98	119.9	82	78.5	70	94.7
KS:..						
1995	90	560.7	61	215.8	7	25.0
1996	94	461.6	65	162.3	*	*
1997	78	509.0	56	186.8	8	19.5
1998	92	596.7	74	248.3	13	50.7
LA:..						
1998	91	9.2	32	1.6	30	1.8
MS:..						
1998	100	22.2	14	1.4	14	1.7
MO:..						
1995	88	109.2	65	42.5	67	57.1
1997	92	98.2	81	45.4	70	49.4
1998	98	138.4	86	51.1	86	74.9
MT:..						
1995	89	69.7	82	31.3	29	4.7
1996	82	84.7	80	46.9	12	4.3
1997	95	64.5	78	31.4	23	4.3
1998	90	67.9	88	30.7	31	5.1
NE:..						
1995	80	80.0	42	27.3	*	*
1996	86	78.6	51	34.8	*	*
1997	92	94.6	74	47.8	*	*
1998	85	69.9	59	25.3	12	1
NC:..						
1998	91	63.9	76	24.1	84	53.8
OH:..						
1995	100	102.6	93	72.3	92	79.1
1997	100	93.1	92	63.7	98	87.6
1998	100	106.9	93	66.8	94	80.2
OK:..						
1995	96	356.3	58	96.3	12	10.3
1996	75	199.2	45	70.8	11	26.1
1997	90	317.5	47	83.6	7	6.4
1998	95	381.0	64	130.8	15	10.7
OR:..						
1995	98	55.9	17	4.5	10	2.1
1996	100	65.0	10	2.5	5	1.1
1997	100	75.3	15	4.7	*	*
1998	99	57.8	9	1.7	1	10.7
PA:..						
1997	81	7.3	60	5.2	59	5.2
SD:..						
1995	53	30.3	43	20.6	*	*
1996	78	60.8	65	29.2	*	*
1997	78	38.7	58	15.3	*	*
1998	94	79.7	92	36.6	*	*
TX:..						
1995	73	172.6	36	38.3	9	3.9
1996	78	183.6	31	39.4	*	*
1997	78	267.2	36	49.1	16	10.8
1998	75	337.2	50	111.7	22	24.6
WA:..						
1995	96	158.1	30	12.9	10	6.4
1996	100	194.9	25	12.2	10	5.4
1997	98	145.4	34	16.5	12	7.6
1998	100	155.8	30	14.7	10	3.8
Durum.						
ND:..						
1995	92	177.8	78	54.8	10	4.6
1996	93	168.6	73	50.9	8	4.9
1997	95	170.9	77	48.7	8	4.1
1998	98	175.0	79	49.0	3	1.7

See footnotes at end of table.

Table 14-11.—Wheat: Fertilizer usage, 1995–98¹—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:.						
1995	95	177.7	90	74.7	72	43.2
1996	98	227.0	87	82.1	48	33.8
1997	98	209.1	91	77.4	73	73.9
1998	100	166.5	97	65.3	64	37.8
MT:.						
1995	78	118.2	72	64.8	17	10.8
1996	83	173.5	78	89.6	9	3.6
1997	79	153.5	66	68.2	15	10.2
1998	61	129.6	55	64.5	22	10.3
ND:.						
1995	88	458.8	80	198.0	14	16.0
1996	90	582.9	78	227.4	24	46.0
1997	99	621.8	92	248.3	24	43.8
1998	97	472.8	87	166.8	20	9.0
SD:.						
1995	95	57.8	68	22.2	12	2.2
1997	90	140.2	70	61.6	*	*
1998	84	92.2	66	45.0	11	5.7

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) 720-3570.

Table 14-12.—Vegetables: Percent of acres receiving applications, for surveyed States, 1998¹

Crop	Nitrogen	Phosphate	Potash	Herbicide	Insecticide	Fungicide
	<i>Percent</i>					
Asparagus	80	29	44	81	67	39
Beans, Lima, Fresh	100	100	100	85	22	*
Beans, Lima, Processing ...	80	55	55	67	82	26
Beans, Snap, Fresh	96	94	93	32	80	74
Beans, Snap, Processing ...	99	92	90	92	80	46
Broccoli	88	56	61	44	77	23
Cabbage, Fresh	98	89	91	72	96	43
Cabbage, Processing	100	91	98	95	100	17
Carrots, Fresh	96	68	35	92	42	64
Carrots, Processing	94	79	74	88	45	60
Cauliflower	100	82	92	56	95	21
Celery	99	95	98	85	97	98
Corn, Sweet, Fresh	97	91	84	81	86	21
Corn, Sweet, Processing ...	98	87	78	94	74	10
Cucumbers, Fresh	98	67	95	32	64	75
Cucumbers, Processing	98	81	90	77	38	36
Eggplant	94	45	94	73	85	82
Lettuce, Head	94	80	61	52	95	85
Lettuce, Other	97	83	69	54	95	88
Melons, Cantaloupe	95	64	23	44	66	53
Melons, Honeydew	96	82	19	33	78	54
Melons, Watermelon	97	87	82	46	45	71
Onions, Bulb	99	92	79	85	78	86
Peas, Green, Processing ...	72	65	63	94	38	**
Peppers, Bell	98	79	92	69	87	72
Spinach, Fresh	99	91	71	41	80	46
Spinach, Processing	96	91	70	90	100	40
Strawberries	96	84	85	35	89	91
Tomatoes, Fresh	99	73	88	57	92	94
Tomatoes, Processing	98	83	53	86	82	96

¹Refers to acres receiving one or more applications of a specific agricultural chemical. * Insufficient number of reports to publish data. ** No reports received for this pesticide class.

NASS, Environmental, Economics, and Demographics Branch, (202) 720-3570.

Table 14-13.—Fruits: Percent of acres receiving applications, for surveyed States, 1997¹

Crop	Herbicide	Insecticide	Fungicide
	<i>Percent</i>		
Apples	60	96	90
Apricots	30	62	52
Avocados	44	33	12
Blackberries	94	79	87
Blueberries	67	83	88
Cherries, Sweet	61	84	80
Cherries, Tart	78	98	99
Dates	**	4	18
Figs	48	1	*
Grapefruit	91	91	71
Grapes	75	60	87
Kiwifruit	41	20	15
Lemons	78	73	66
Limes	98	100	100
Nectarines	73	82	79
Olives	53	16	30
Oranges	91	88	65
Peaches	54	82	84
Pears	57	90	85
Plums	74	85	69
Prunes	48	71	58
Raspberries	90	90	95
Tangelos	96	97	91
Tangerines	80	79	56
Temples	96	98	94

¹ Refers to acres receiving one or more applications of a specific agricultural chemical. * Insufficient number of reports to publish data. ** No reports received for this pesticide class.
 NASS, Environmental, Economics, and Demographics Branch, (202) 720-3570.