
U.S. Environmental Data Summary

The environmental survey program provides data on agricultural chemical and fertilizer usage, pest management practices, and postharvest chemical applications. Agricultural chemical use data are released for selected major field crops, fruits and nuts, vegetables, and livestock and their facilities. Postharvest chemical use data are released for selected crops in storage, such as apples, potatoes, corn, wheat, rice, and peanuts. Pest management practices data are released to show what farmers are doing to reduce their dependency on agricultural chemicals. Pests are defined as weeds, insects, and diseases. Pest management practices were categorized into four areas: prevention, avoidance, monitoring, and suppression.

Following is a list of environmental products released during the past year:

Agricultural Chemical Usage - Postharvest Applications are released in March. For the March 2000 release, oats and soybeans were targeted. The March 2001 release targeted peanuts, rice, and sorghum.

Pest Management Practices 1999 Summary was released April 2000. Data are summarized for the U.S. and four regions (Northeast, North Central, South, and West). Targeted crops were: barley, corn, cotton, soybeans, wheat, alfalfa hay, other hay, fruits and nuts, vegetables, and cropland pasture.

Agricultural Chemical Usage 1999 Cattle and Cattle Facilities was released April 2000.

Agricultural Chemical Usage 1999 Field Crops Summary was released May 2000. The agricultural chemical use estimates refer to on-farm use of commercial fertilizers and pesticides on targeted crops for selected states. The targeted crops were: corn, cotton, peanuts, potatoes, soybeans, and wheat.

Agricultural Chemical Usage 1999 Fruit and Nut Summary was released July 2000. Data provided for 25 fruit and five nut crops.

Agricultural Chemical Usage 1999 Restricted Use Summary was released October 2000. The chemical data provided in this report is limited to restricted use pesticides. This class of pesticides has been determined by the U.S. Environmental Protection Agency (EPA) to be "restricted", that is they are available for purchase and use only by certified pesticide applicators or persons under their direct supervision.

Agricultural Chemical Usage 1999 Swine and Swine Facilities was released in December 2000. This report was based on a survey of 17 states representing 93% of the U.S. hog inventory.

Environmental

Pesticide Usage: Corn ^{1 2}

Year		Percent Treated and Amount Applied			
		Herbicide		Insecticide ³	
		Area Applied	Pounds Applied	Area Applied	Pounds Applied
		<i>percent</i>	<i>1,000</i>	<i>percent</i>	<i>1,000</i>
Colorado	1998	90	1,595	29	530
	1999	93	1,763	45	479
Illinois	1996	99	34,223	27	2,143
	1997	98	32,733	44	4,266
	1998	94	31,723	31	1,996
	1999	98	28,467	38	1,883
Indiana	1996	98	18,856	35	1,466
	1997	94	18,127	31	1,023
	1998	99	18,373	45	1,595
	1999	99	14,819	36	1,156
Iowa	1996	99	36,109	17	1,779
	1997	98	36,144	19	2,323
	1998	98	31,911	18	1,534
	1999	99	27,966	25	2,462
Kansas	1996	94	5,784	40	515
	1997	95	5,357	49	400
	1999	98	6,619	32	385
Kentucky	1996	99	4,159	24	43
	1998	99	4,174	*	*
	1999	94	3,487	50	22
Michigan	1996	98	7,250	21	318
	1997	98	6,912	11	200
	1998	97	5,740	17	299
	1999	99	6,128	22	214
Minnesota	1996	97	17,819	13	614
	1997	91	13,956	10	291
	1998	97	14,248	10	353
	1999	98	11,126	11	280
Missouri	1996	98	7,547	27	492
	1997	97	8,203	35	475
	1998	95	7,718	44	291
	1999	98	7,988	38	218
Nebraska	1996	98	19,817	51	3,068
	1997	98	19,970	62	3,531
	1998	93	19,459	44	1,667
	1999	99	19,747	39	1,295

See footnotes at end of table.

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Pesticide Usage: Corn ^{1 2} (continued)

Year	Percent Treated and Amount Applied			
	Herbicide		Insecticide ³	
	Area Applied	Pounds Applied	Area Applied	Pounds Applied
	<i>percent</i>	<i>1,000</i>	<i>percent</i>	<i>1,000</i>
North Carolina				
1996	97	2,565	37	376
1998	96	2,150	32	283
1999	82	1,340	35	222
Ohio				
1996	100	10,029	28	591
1997	100	12,971	18	711
1998	99	9,722	41	1,094
1999	99	10,136	7	98
Pennsylvania				
1996	98	4,371	54	419
1998	97	4,436	44	262
South Carolina				
1996	98	1,017	26	84
South Dakota				
1996	91	7,091	25	422
1997	93	6,346	10	317
1998	95	9,947	*	*
1999	95	5,862	18	520
Texas				
1996	91	2,770	74	712
1998	94	2,520	68	1,191
1999	93	3,190	54	458
Wisconsin				
1996	93	7,570	37	1,176
1997	98	8,689	19	433
1998	97	7,939	24	593
1999	96	5,421	31	473

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 thurengiensis).

* Insufficient number of reports to publish data.

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

Environmental

Pesticide Usage: Upland Cotton ¹

State and Year		Percent Treated and Amount Applied			
		Herbicide		Insecticide ²	
		Area Applied	Pounds Applied	Area Applied	Pounds Applied
		<i>percent</i>	<i>1,000</i>	<i>percent</i>	<i>1,000</i>
Alabama	1997	100	1,667	85	469
	1998	99	1,300	91	422
	1999	99	1,154	87	436
Arizona	1996	75	357	89	1,029
	1997	87	534	85	705
	1998	95	426	91	677
	1999	90	519	60	360
Arkansas	1996	99	2,750	93	1,303
	1997	89	2,882	77	678
	1998	93	2,119	98	886
	1999	96	1,949	85	900
California	1996	90	1,856	97	2,031
	1997	93	1,227	92	2,242
	1998	99	879	98	800
	1999	98	1,006	94	861
Georgia	1996	100	4,079	73	633
	1997	100	4,623	90	895
	1998	99	3,629	84	869
	1999	98	4,249	92	816
Louisiana	1996	81	1,957	97	1,486
	1997	90	2,331	85	1,789
	1998	96	1,655	98	2,385
	1999	98	1,763	98	4,206
Mississippi	1996	99	3,981	95	2,417
	1997	100	3,124	100	3,972
	1998	100	2,588	98	4,757
	1999	100	3,821	98	6,580
Missouri	1997	100	839	71	210
North Carolina	1997	97	1,832	92	339
	1998	95	1,494	92	363
	1999	96	2,079	91	533
South Carolina	1997	100	875	98	241
Tennessee	1996	100	1,889	89	505
	1997	98	1,275	85	417
	1998	100	1,127	97	1,297
	1999	96	1,385	95	1,222
Texas	1996	90	5,692	68	5,832
	1997	97	6,401	62	6,327
	1998	93	6,989	47	2,833
	1999	97	7,081	76	23,417

See footnotes at end of table.

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Pesticide Usage: Upland Cotton ¹ (continued)

State and Year	Percent Treated and Amount Applied			
	Fungicide		Other Chemicals	
	Area Applied	Pounds Applied	Area Applied	Pounds Applied
	<i>percent</i>	<i>1,000</i>	<i>percent</i>	<i>1,000</i>
Alabama				
1997	17	22	69	482
1998	16	52	85	454
1999	30	130	78	617
Arizona				
1996	(³)	(³)	71	1,703
1997	*	*	86	770
1998	4	6	97	947
1999	(³)	(³)	95	1,361
Arkansas				
1996	28	157	91	1,206
1997	10	83	84	1,335
1998	19	71	93	1,490
1999	17	140	97	2,372
California				
1996	*	*	95	5,180
1997	*	*	98	3,471
1998	*	*	99	1,611
1999	1	7	100	2,406
Georgia				
1996	(³)	(³)	48	1,234
1997	(³)	(³)	85	4,397
1998	*	*	72	2,322
1999	*	3	78	2,992
Louisiana				
1996	17	89	69	546
1997	19	85	66	469
1998	22	76	83	499
1999	9	40	88	707
Mississippi				
1996	7	45	99	2,541
1997	30	447	97	1,556
1998	16	115	92	1,103
1999	17	180	99	1,980
Missouri				
1997	*	*	99	573
North Carolina				
1997	*	*	96	1,093
1998	9	30	89	909
1999	6	42	57	996
South Carolina				
1997	18	5	96	467
Tennessee				
1996	33	97	87	732
1997	29	123	79	551
1998	37	61	93	547
1999	27	132	89	585
Texas				
1996	*	*	39	2,064
1997	(³)	(³)	53	2,398
1998	*	*	45	2,113
1999	1	49	32	1,840

¹ Data not available for all States for all years.

² Amount applied excludes Bt (bacillus thurengiensis).

³ No reports received for this pesticide class.

* Insufficient number of reports to publish data.

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

Pesticide Usage: Fall Potatoes ¹

State and Year	Percent Treated and Amount Applied			
	Herbicide		Insecticide ²	
	Area Treated	Pounds Applied	Area Treated	Pounds Applied
	<i>percent</i>	<i>1,000</i>	<i>percent</i>	<i>1,000</i>
Colorado				
1999	86	175	76	39
Idaho				
1996	90	1,131	73	649
1997	92	962	92	1,057
1999	92	953	92	1,066
Indiana				
1999	67	9	99	2
Maine				
1996	98	49	90	46
1997	96	39	97	68
1999	100	25	97	29
Michigan				
1999	100	101	100	52
Minnesota				
1997	28	35	99	84
1999	86	82	91	54
North Dakota				
1997	63	134	77	161
1999	83	94	95	121
Oregon				
1997	94	142	85	178
1999	100	129	89	183
Pennsylvania				
1998	90	36	99	32
1999	94	35	99	47
Washington				
1996	93	322	94	485
1997	85	264	99	644
1999	98	360	99	810
Wisconsin				
1997	98	70	95	95
1998	96	85	97	119
1999	98	84	100	193

See footnotes at end of table.

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Pesticide Usage: Fall Potatoes ¹ (continued)

State and Year	Percent Treated and Amount Applied			
	Fungicide		Other Chemicals	
	Area Treated	Pounds Applied	Area Treated	Pounds Applied
	<i>percent</i>	<i>1,000</i>	<i>percent</i>	<i>1,000</i>
Colorado				
1999	98	387	57	14,056
Idaho				
1996	85	1,089	39	30,529
1997	100	2,233	59	40,356
1999	92	1,502	56	53,358
Indiana				
1999	29	10	*	*
Maine				
1996	100	737	98	580
1997	99	641	96	1,609
1999	100	553	24	89
Michigan				
1999	99	609	56	137
Minnesota				
1997	98	816	82	113
1999	93	577	16	2,103
North Dakota				
1997	99	1,232	36	22
1999	99	966	5	1,315
Oregon				
1997	93	346	69	8,306
1999	97	314	65	7,489
Pennsylvania				
1998	99	152	69	5
1999	95	125	3	4
Washington				
1996	85	986	72	12,064
1997	95	1,084	71	9,658
1999	97	1,206	75	19,377
Wisconsin				
1997	100	1,103	87	3,601
1998	99	1,065	91	2,538
1999	98	921	16	1,104

¹ Data not available for all States for all years.

² Amount applied excludes Bt (bacillus thuringiensis).

* Insufficient number of reports to publish data.

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

Environmental

Pesticide Usage: Soybeans ^{1 2}

State and Year	Percent Treated and Amount Applied			
	Herbicide		Insecticide ³	
	Area Applied	Pounds Applied	Area Applied	Pounds Applied
	<i>percent</i>	<i>1,000</i>	<i>percent</i>	<i>1,000</i>
Arkansas				
1996	92	4,491	*	*
1997	97	5,019	*	*
1998	75	3,058	4	37
1999	94	3,670	9	17
Delaware				
1997	78	314	*	*
Illinois				
1996	97	10,670	(⁴)	(⁴)
1997	98	11,136	*	*
1998	95	11,354	*	*
1999	96	10,290	*	20
Indiana				
1996	97	5,845	*	*
1997	99	7,062	(⁴)	(⁴)
1998	98	5,798	(⁴)	(⁴)
1999	89	5,750	(⁴)	(⁴)
Iowa				
1996	99	10,821	*	*
1997	99	13,691	(⁴)	(⁴)
1998	100	11,866	(⁴)	(⁴)
1999	99	11,995	(⁴)	(⁴)
Kansas				
1997	94	2,947	*	*
1998	95	2,156	*	*
1999	97	3,273	*	1
Kentucky				
1997	91	1,460	*	*
1998	98	1,239	*	*
1999	94	1,037	*	*
Louisiana				
1996	94	1,645	32	161
1997	90	1,843	29	331
1998	89	1,442	32	217
1999	94	1,123	53	229
Michigan				
1997	98	2,452	(⁴)	(⁴)
1998	98	2,620	*	*
1999	97	2,342	(⁴)	(⁴)
Minnesota				
1996	98	7,826	(⁴)	(⁴)
1997	96	6,902	(⁴)	(⁴)
1998	97	6,071	*	*
1999	97	6,203	(⁴)	(⁴)

See footnotes at end of table.

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Pesticide Usage: Soybeans (continued) ^{1 2}

State and Year	Area Treated and Amount Applied			
	Herbicide		Insecticide ³	
	Area Applied	Pounds Applied	Area Applied	Pounds Applied
	<i>percent</i>	<i>1,000</i>	<i>percent</i>	<i>1,000</i>
Mississippi				
1996	99	2,287	*	*
1997	98	2,453	*	*
1998	100	2,948	6	33
1999	99	2,967	9	78
Missouri				
1996	98	5,373	*	*
1997	94	5,521	(⁴)	*
1998	92	6,152	(⁴)	(⁴)
1999	97	5,556	(⁴)	(⁴)
Nebraska				
1996	99	3,459	*	*
1997	99	4,093	*	*
1998	88	4,226	*	*
1999	96	4,758	1	10
North Carolina				
1997	98	1,625	35	130
1998	84	1,440	3	20
1999	88	1,283	3	3
Ohio				
1996	98	5,692	*	*
1997	99	5,307	*	*
1998	99	5,435	*	*
1999	99	4,758	*	3
Pennsylvania				
1997	86	661	(⁴)	(⁴)
1999	99	429	11	20
South Dakota				
1997	90	3,059	*	*
1998	96	3,706	*	*
1999	98	3,943	(⁴)	(⁴)
Tennessee				
1996	100	1,770	*	*
1997	100	1,664	*	*
1998	98	1,926	*	*
1999	98	1,405	2	19
Wisconsin				
1996	99	750	*	*
1997	100	998	(⁴)	(⁴)

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).

⁴ No reports received for this pesticide class.

* Insufficient number of reports to publish data.

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

Pesticide Usage: Wheat ^{1 2}

Type, State, and Year	Area Treated and Amount Applied					
	Herbicide		Insecticide ³		Fungicide	
	Area Applied	Pounds Applied	Area Applied	Pounds Applied	Area Applied	Pounds Applied
	<i>percent</i>	<i>1,000</i>	<i>percent</i>	<i>1,000</i>	<i>percent</i>	<i>1,000</i>
Winter Wheat						
California						
1998	47	146	*	*	*	*
Colorado						
1996	61	756	11	139	(⁴)	(⁴)
1997	64	803	13	321	(⁴)	(⁴)
1998	61	610	*	*	*	*
Georgia						
1998	38	80	*	*	18	6
Idaho						
1996	80	433	(⁴)	(⁴)	(⁴)	(⁴)
1997	98	631	(⁴)	(⁴)	(⁴)	(⁴)
1998	88	495	*	*	*	*
Illinois						
1997	40	16	(⁴)	(⁴)	(⁴)	(⁴)
1998	47	17	*	*	*	*
Indiana						
1999	39	28	*	*	*	*
Kansas						
1996	47	1,304	7	212	(⁴)	(⁴)
1997	31	819	(⁴)	(⁴)	(⁴)	(⁴)
1998	35	1,620	(⁴)	(⁴)	(⁴)	(⁴)
Louisiana						
1998	*	*	*	*	10	2
Mississippi						
1998	55	78	*	*	11	4
Missouri						
1997	33	67	(⁴)	(⁴)	(⁴)	(⁴)
1998	28	12	(⁴)	(⁴)	(⁴)	(⁴)
Montana						
1996	93	1,385	*	*	*	*
1997	88	1,089	*	*	*	*
1998	89	889	(⁴)	(⁴)	(⁴)	(⁴)
Nebraska						
1996	61	332	*	*	*	*
1997	53	189	(⁴)	(⁴)	(⁴)	(⁴)
1998	52	320	*	*	*	*
North Carolina						
1998	60	92	13	11	15	13
Ohio						
1997	20	56	(⁴)	(⁴)	(⁴)	(⁴)
1998	13	75	(⁴)	(⁴)	(⁴)	(⁴)
Oklahoma						
1996	35	655	27	391	(⁴)	(⁴)
1997	38	435	13	234	(⁴)	(⁴)
1998	42	827	6	89	*	*
Oregon						
1996	99	503	*	*	8	21
1997	100	516	*	*	24	87
1998	100	415	*	*	21	107

See footnotes at end of table.

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Pesticide Usage: Wheat (continued) ^{1 2}

Type, State, and Year	Area Treated and Amount Applied					
	Herbicide		Insecticide ³		Fungicide	
	Area Treated	Pounds Applied	Area Treated	Pounds Applied	Area Treated	Pounds Applied
	<i>percent</i>	<i>1,000</i>	<i>percent</i>	<i>1,000</i>	<i>percent</i>	<i>1,000</i>
Winter Wheat(contd.)						
Pennsylvania						
1999	21	8	*	*	*	*
South Dakota						
1996	65	390	*	*	*	*
1997	89	383	(⁴)	(⁴)	(⁴)	(⁴)
1998	88	589	*	*	*	*
Texas						
1996	27	319	38	447	*	*
1997	24	181	18	351	*	*
1998	27	435	7	177	*	*
Washington						
1996	96	1,304	(⁴)	(⁴)	8	43
1997	98	1,584	*	*	1	4
1998	97	1,718	*	*	3	49
Durum Wheat						
North Dakota						
1996	98	2,087	*	*	*	*
1997	93	2,221	2	12	*	*
1998	98	2,631	*	*	*	*
Other Spring						
Idaho						
1998	95	392	*	*	*	*
Minnesota						
1996	96	1,547	*	*	*	*
1997	94	1,434	*	*	*	*
1998	97	1,396	11	65	37	100
Montana						
1996	76	2,122	(⁴)	(⁴)	(⁴)	(⁴)
1997	94	3,254	*	*	*	*
1998	81	1,816	*	*	*	*
North Dakota						
1996	92	6,170	*	*	*	*
1997	88	4,583	*	*	*	*
1998	98	4,053	7	176	7	52
Oregon						
1998	98	87	(⁴)	(⁴)	(⁴)	(⁴)
South Dakota						
1996	86	886	(⁴)	(⁴)	(⁴)	(⁴)
1998	73	698	*	*	*	*
Washington						
1998	100	552	*	*	*	*

¹ Data not available for all States for all years.

² Insufficient number of reports to publish data for other chemicals.

³ Amount applied excludes Bt (*Bacillus thuringiensis*).

⁴ No reports received for this pesticide class.

* Insufficient number of reports to publish data.

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

Environmental

Fertilizer Usage: Soybeans ¹

State and Year		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>
Arkansas	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
	1999	17	17.3	43	78.0	40	90.0
Delaware	1997	37	1.5	38	3.8	29	5.7
Illinois	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
	1999	7	16.2	14	64.1	28	304.0
Indiana	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
	1999	28	33.6	36	105.3	36	219.8
Iowa	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
	1999	7	23.5	17	103.5	22	173.7
Kansas	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
Kentucky	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
Louisiana	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
	1999	5	1.4	14	7.2	11	6.8
Michigan	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

See footnotes at end of table.

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Fertilizer Usage: Soybeans ¹ (continued)

State and Year	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>
Minnesota						
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
1999	13	18.7	13	29.5	13	54.5
Mississippi						
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
1999	10	4.2	15	14.1	22	23.9
Missouri						
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
1999	15	11.7	23	54.8	23	87.3
Nebraska						
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
1999	25	17.8	25	31.7	16	17.0
North Carolina						
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
Ohio						
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
1999	21	14.4	35	81.6	47	205.6
Pennsylvania						
1997	53	3.4	55	8.7	59	19.5
1999	37	2.8	41	7.5	43	10.0
South Dakota						
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	48	21.3
Tennessee						
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
1999	34	7.1	46	25.9	48	38.4
Wisconsin						
1997	53	8.2	54	11.7	69	56.0

¹ Data not available for all States for all years.

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

Fertilizer Usage: Corn 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>
Colorado	1998	93	110.3	78	18.0	49	4.9
	1999	98	165.6	65	30.3	16	3.4
Illinois	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
	1999	98	1,639.8	80	603.2	81	1,003.0
Indiana	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
	1999	99	881.8	92	299.1	88	593.3
Iowa	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
	1999	98	1,502.8	75	604.9	75	734.7
Kansas	1996	98	416.5	83	79.5	29	26.1
	1998	100	514.3	83	101.4	21	21.6
	1999	99	443.3	70	86.2	22	20.5
Kentucky	1996	98	186.9	86	87.2	89	94.1
	1998	100	227.3	94	103.7	95	140.4
	1999	100	234.9	81	66.6	50	64.5
Michigan	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
	1999	100	277.9	92	91.9	91	174.4

See footnotes at end of table.

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Fertilizer Usage: Corn ¹ (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>
Minnesota	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
	1999	92	702.9	90	299.6	86	312.9
Missouri	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
	1999	100	422.3	84	136.1	84	169.4
Nebraska	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
	1999	99	1,115.2	75	232.8	18	22.1
North Carolina	1996	99	113.1	91	53.6	89	88.7
	1998	98	105.1	92	42.2	91	76.1
	1999	99	83.2	82	36.3	88	66.3
Ohio	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
	1999	100	527.0	97	236.1	94	324.2
Pennsylvania	1996	97	112.2	79	67.0	75	43.6
	1998	88	128.5	71	54.4	69	41.4
South Carolina	1996	100	46.0	97	21.8	100	42.3
South Dakota	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
	1999	98	334.6	88	136.2	49	42.5
Texas	1996	99	284.5	79	61.6	43	25.4
	1998	99	319.4	87	89.3	21	15.4
	1999	100	304.5	80	74.5	40	22.4
Wisconsin	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
	1999	98	305.1	82	104.2	91	177.8

¹ Data not available for all States for all years.

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

Environmental

Fertilizer Usage: Upland Cotton 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>
Alabama	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
Arizona	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
	1999	99	39.6	22	5.0	15	0.7
Arkansas	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
	1999	97	88.0	82	31.8	85	63.5
California	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
	1999	99	92.6	51	19.1	19	11.1
Georgia	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
	1999	100	127.6	98	81.3	100	160.3
Louisiana	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
	1999	100	52.4	43	14.7	45	18.9
Mississippi	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
	1999	100	133.3	36	21.2	65	85.8
Missouri	1997	100	42.6	72	10.0	95	28.1
North Carolina	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
South Carolina	1997	100	26.8	100	15.8	100	34.2
Tennessee	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
	1999	100	51.2	99	30.2	100	50.9
Texas	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
	1999	71	281.8	45	112.8	23	26.6

¹ Data not available for all States for all years.

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

Fertilizer Usage: Fall Potatoes ¹

State and Year		Percent Treated and Amount Applied					
		Nitrogen		Phosphate		Potash	
		Area Applied	Pounds Applied	Acres Treated	Pounds Applied	Acres Treated	Pounds Applied
		<i>percent</i>	<i>millions</i>	<i>percent</i>	<i>millions</i>	<i>percent</i>	<i>millions</i>
Colorado	1999	98	14.6	95	13.3	74	5.6
Idaho	1996	100	84.4	99	80.6	85	40.7
	1997	100	103.6	97	72.3	88	41.7
	1999	100	91.0	99	78.5	82	42.7
Indiana	1999	100	0.6	100	0.5	100	0.5
Maine	1996	100	13.0	99	13.4	100	13.6
	1997	100	12.9	100	13.3	100	13.5
	1999	100	11.5	100	12.3	100	12.4
Michigan	1999	100	10.1	98	6.6	100	10.0
Minnesota	1997	96	11.9	99	6.1	97	6.6
	1999	99	8.0	91	5.3	91	9.6
North Dakota	1997	100	16.7	96	11.7	80	7.7
	1999	99	15.4	98	10.9	83	9.2
Oregon	1997	100	15.1	100	10.8	87	11.1
	1999	100	13.5	100	8.2	91	7.5
Pennsylvania	1998	100	2.1	97	1.6	96	2.1
	1999	97	2.2	97	1.8	97	2.0
Washington	1996	95	44.3	92	29.4	91	30.2
	1997	100	47.9	99	42.6	98	31.6
	1999	100	55.5	99	40.7	97	43.7
Wisconsin	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.

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

Fertilizer Usage: Wheat ¹

Type, State, and Year	Percent Treated and Amount Applied					
	Nitrogen		Phosphate		Potash	
	Area Treated	Pounds Applied	Area Treated	Pounds Applied	Area Treated	Pounds Applied
	<i>percent</i>	<i>millions</i>	<i>percent</i>	<i>millions</i>	<i>percent</i>	<i>millions</i>
Winter Wheat						
Colorado						
1997	77	70.2	38	18.0	(²)	(²)
1998	68	69.0	39	18.7	(²)	(²)
1999	78	108.5	33	22.2	4	0.7
Georgia						
1999	98	27.7	90	12.3	86	17.2
Idaho						
1997	97	96.2	48	22.1	15	5.0
1998	98	105.4	62	19.4	11	4.3
1999	97	93.6	67	20.6	23	7
Illinois						
1998	91	103.8	69	62.1	77	86.9
1999	98	119.9	82	78.5	70	94.7
Indiana						
2000	97	46.3	91	31.6	90	39
Kansas						
1997	94	461.6	65	162.3	(²)	(²)
1998	78	509.0	56	186.8	8	19.5
1999	92	596.7	74	248.3	13	50.70
Louisiana						
1999	91	9.2	32	1.6	30	1.8
Mississippi						
1999	100	22.2	14	1.4	14	1.7
Missouri						
1998	92	98.2	81	45.4	70	49.4
1999	98	138.4	86	51.1	86	74.9
Montana						
1997	82	84.7	80	46.9	12	4.3
1998	95	64.5	78	31.4	23	4.3
1999	90	67.9	88	30.7	31	5.1
Nebraska						
1997	86	78.6	51	34.8	(²)	(²)
1998	92	94.6	74	47.8	(²)	(²)
1999	85	69.9	59	25.3	12	1
North Carolina						
1999	91	63.9	76	24.1	84	53.8
Ohio						
1998	100	93.1	92	63.7	98	87.6
1999	100	106.9	93	66.8	94	80.2
Oklahoma						
1997	75	199.2	45	70.8	11	26.1
1998	90	317.5	47	83.6	7	6.4
1999	95	381.0	64	130.8	15	10.7
Oregon						
1997	100	65.0	10	2.5	5	1.1
1998	100	75.3	15	4.7	(²)	(²)
1999	99	57.8	9	1.7	1	10.7
Pennsylvania						
1998	81	7.3	60	5.2	59	5.2

See footnotes at end of table.

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Fertilizer Usage: Wheat ¹ (continued)

Type, State, and Year	Percent Treated and Amount Applied					
	Nitrogen		Phosphate		Potash	
	Area Treated	Pounds Applied	Area Treated	Pounds Applied	Area Treated	Pounds Applied
	<i>percent</i>	<i>millions</i>	<i>percent</i>	<i>millions</i>	<i>percent</i>	<i>millions</i>
Winter Wheat(contd.)						
South Dakota						
1997	78	60.8	65	29.2	(²)	(²)
1998	78	38.7	58	15.3	(²)	(²)
1999	94	79.7	92	36.6	(²)	(²)
Texas						
1997	78	183.6	31	39.4	(²)	(²)
1998	78	267.2	36	49.10	16	10.8
1999	75	337.2	50	111.7	22	24.6
Washington						
1997	100	194.9	25	12.2	10	5.4
1998	98	145.4	34	16.5	12	7.6
1999	100	155.8	30	14.7	10	3.8
Durum Wheat						
North Dakota						
1997	93	168.6	73	50.9	8	4.9
1998	95	170.9	77	48.7	8	4.1
1999	98	175.0	79	49.0	3	1.7
Other Spring						
Idaho						
1999	96	59.4	83	17.9	33	2.9
Minnesota						
1997	98	227.0	87	82.1	48	33.8
1998	98	209.1	91	77.4	73	73.9
1999	100	166.5	97	65.3	64	37.8
Montana						
1997	83	173.5	78	89.6	9	3.6
1998	79	153.5	66	68.2	15	10.2
1999	61	129.6	55	64.5	22	10.3
North Dakota						
1997	90	582.9	78	227.4	24	46.0
1998	99	621.8	92	248.3	24	43.8
1999	97	472.8	87	166.8	20	9.0
South Dakota						
1998	90	140.2	70	61.6	(²)	(²)
1999	84	92.2	66	45.00	11	5.7

¹ Data not available for all States for all years.

² Insufficient number of reports to publish data.

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