

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 are 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 2002 release, wheat was targeted. The March 2003 release targeted apples and pears.

Agricultural Chemical Usage 2001 Dairy Cattle and Dairy Facilities was released May 2002.

Agricultural Chemical Usage 2001 Field Crops Summary was released May 2002. 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, upland cotton, potatoes, and soybeans.

Agricultural Chemical Usage 2001 Fruit Summary was released August 2002. Data were published on 24 fruit crops.

Agricultural Chemical Usage 2000 Nursery and Floriculture Summary was released April 2002. This was the first NASS Chemical Usage publication in this area.

Environmental

Fertilizer Usage: Corn 1/

State and Year Surveyed		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
	2000	95	182.0	78	42.2	17	7.4
	2001	93	141.5	65	32.1	24	10.8
Georgia	2001	97	28.6	91	12.6	87	20.8
Illinois	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
	2001	99	1,682.8	81	720.6	85	1,092.2
Indiana	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	868.8	90	366.1	85	625.9
	2001	98	837.4	85	331.7	86	660.0
Iowa	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	603.9
	2001	87	1,272.8	62	415.8	60	482.4
Kansas	1997	100	514.3	83	101.4	21	21.6
	1999	99	443.3	70	86.2	22	20.5
	2000	100	506.0	74	97.3	39	37.1
	2001	97	444.4	71	93.5	19	24.8
Kentucky	1997	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
	2000	99	198.7	81	88.3	80	92.0
	2001	91	173.4	87	92.5	82	99.9
Michigan	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
	2001	91	251.3	78	85.9	78	175.2
Minnesota	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
	2001	97	750.2	90	283.4	81	340.5
Missouri	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
	2001	99	411.6	82	129.6	83	161.2

See footnote(s) at end of table.

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Fertilizer Usage: Corn 1/ (continued)

State and Year Surveyed	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>
Nebraska						
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
2001	100	1,067.0	77	219.4	25	42.8
New York						
2000	99	71.2	89	45.6	78	41.8
2001	100	76.8	98	49.4	90	45.6
North Carolina						
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
2001	98	81.8	85	41.6	84	56.6
North Dakota						
2000	98	103.1	80	38.8	29	8.7
2001	94	89.9	83	33.8	38	10.1
Ohio						
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	224.1	83	287.0
2001	100	572.1	92	210.8	89	338.9
Pennsylvania						
1998	88	128.5	71	54.4	69	41.4
2000	95	103.8	87	59.9	67	35.9
2001	98	130.2	79	55.8	76	43.4
South Dakota						
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
2001	95	393.8	69	119.4	32	38.9
Texas						
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
2001	100	245.6	83	66.3	40	18.4
Wisconsin						
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
2001	98	353.3	95	120.9	89	169.5

1/ Data not available for all States for all years. NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Fertilizer Usage: Upland Cotton 1/

Environmental

State and Year Surveyed	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
2000	100	60.5	95	35.2	91	46.7
Arizona						
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
Arkansas						
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
2001	93	80.3	63	24.6	68	54.0
California						
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
2001	*	*	*	*	*	*
Georgia						
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
2000	96	124.9	94	77.6	93	117.7
2001	99	116.2	92	71.9	93	119.3
Louisiana						
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
2001	95	70.8	50	18.4	52	35.1
Mississippi						
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
2001	99	179.9	31	25.8	46	72.5
Missouri						
1997	100	42.6	72	10.0	95	28.1
2000	100	40.4	86	11.7	95	33.5
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
2000	96	76.0	80	34.9	91	98.5
2001	*	*	*	*	*	*
South Carolina						
1997	100	26.8	100	15.8	100	34.2
Tennessee						
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
2001						
Texas						
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
2001	52	195.9	37	85.2	14	16.4

1/ Data not available for all States for all years. * Insufficient number of reports to publish data. NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Fertilizer Usage: Fall Potatoes 1/

State and Year Surveyed		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	1997	100	103.6	97	72.3	88	41.7
	1999	100	91.0	99	78.5	82	42.7
	2001	99	79.6	97	63.2	77	35.1
Indiana	1999	100	0.6	100	0.5	100	0.5
Maine	1997	100	12.9	100	13.3	100	13.5
	1999	100	11.5	100	12.3	100	12.4
	2001	98	11.0	98	11.4	98	11.8
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
	2001	93	6.4	89	4.5	89	7.6
North Dakota	1997	100	16.7	96	11.7	80	7.7
	1999	99	15.4	98	10.9	83	9.2
	2001	*	*	*	*	*	*
Oregon	1997	100	15.1	100	10.8	87	11.1
	1999	100	13.5	100	8.2	91	7.5
	2001	*	*	*	*	*	*
Pennsylvania	1998	100	2.1	97	1.6	96	2.1
	1999	97	2.2	97	1.8	97	2.0
Washington	1997	100	47.9	99	42.6	98	31.6
	1999	100	55.5	99	40.7	97	43.7
	2001	97	37.6	90	33.0	92	37.4
Wisconsin	1997	100	15.0	100	9.5	100	22.2
	1999	100	20.8	100	12.0	99	20.4
	2001	100	22.0	98	13.7	100	24.3

1/ Data not available for all States for all years. * Insufficient number of reports to publish data. NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Environmental

Fertilizer Usage: Soybeans 1/

State and Year Surveyed		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	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
	2001	3	3.4	30	42.8	24	54.9
Delaware	1997	37	1.5	38	3.8	29	5.7
Illinois	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
	2001	10	42.8	12	95.8	22	250.5
Indiana	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
	2000	7	11.0	15	53.9	33	207.8
	2001	12	11.4	20	58.1	36	222.4
Iowa	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
	2001	5	9.9	9	47.9	10	71.3
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
	2000	18	10.3	16	16.9	*	*
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
	2000	13	7.7	40	31.7	39	37.7
Louisiana	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
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
	2000	37	11.1	40	44.8	72	131.2

See footnote(s) at end of table.

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Fertilizer Usage: Soybeans 1/ (continued)

State and Year Surveyed	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						
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
2001	13	15.3	13	32.3	12	41.5
Mississippi						
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
Missouri						
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
2001	6	5.4	24	52.2	22	61.7
Nebraska						
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
2001	22	23.4	21	38.3	10	13.2
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
2000	38	12.6	62	54.7	47	47.7
North Dakota						
2000	46	27.8	41	25.3	*	*
Ohio						
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
2001	17	19.1	30	63.9	41	164.7
Pennsylvania						
1997	53	3.4	55	8.7	59	19.5
2000	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
2000	38	24.3	43	66.0	12	12.2
Tennessee						
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
Wisconsin						
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. * Insufficient number of reports to publish data. NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Environmental

Fertilizer Usage: Wheat 1/

Type, State, and Year Surveyed	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						
Arkansas						
2000	92	110.1	28	12.3	28	16.0
Colorado						
1997	68	69.0	39	18.7	*	*
1998	78	108.5	33	22.2	4	0.7
2000	87	85.2	14	5.6	*	*
Georgia						
1998	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	7.0
2000	90	75.5	54	12.1	13	2.7
Illinois						
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
Indiana						
1999	97	46.3	91	31.6	90	39.0
Kansas						
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
Kentucky						
2000	80	52.0	62	25.9	60	29.2
Louisiana						
1998	91	9.2	32	1.6	30	1.8
Mississippi						
1998	100	22.2	14	1.4	14	1.7
Missouri						
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
Montana						
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
Nebraska						
1997	86	78.6	51	34.8	*	*
1998	92	94.6	74	47.8	*	*
1999	85	69.9	59	25.3	12	1.0
2000	90	76.5	68	31.5	*	*
North Carolina						
1999	91	63.9	76	24.1	84	53.8
2000	88	78.3	48	15.8	56	30.9
Ohio						
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
Oklahoma						
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
Oregon						
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
Pennsylvania						
1998	81	7.3	60	5.2	59	5.2

See footnote(s) at end of table.

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Fertilizer Usage: Wheat 1/ (continued)

Type, State, and Year Surveyed	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	*	*
1998	78	38.7	58	15.3	*	*
1999	94	79.7	92	36.6	*	*
2000	91	60.8	61	26.6	12	1.3
Texas						
1997	78	183.6	31	39.4	*	*
1998	78	267.2	36	49.1	16	10.8
1999	75	337.2	50	111.7	22	24.6
2000	55	280.7	35	79.7	14	32.0
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
2000	100	111.7	30	10.2	6	1.3
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
2000	86	173.8	66	47.6	5	2.1
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
2000	94	169.8	85	51.8	73	29.3
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
2000	90	167.6	84	75.5	36	15.6
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
2000	97	501.8	83	170.1	12	2.8
South Dakota						
1998	90	140.2	70	61.6	*	*
1999	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. NASS, Environmental, Economics, and Demographics Branch, (202) 720-6146.

Environmental

Pesticide Usage: Corn 1/

State and Year Surveyed		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
	2000	97	1,501	59	505
	2001	92	1,506	51	431
Georgia	2001	95	398	34	431
Illinois	1997	98	32,733	44	4,266
	1998	94	31,723	31	1,996
	1999	98	28,467	38	1,883
	2000	100	28,190	43	3,131
	2001	100	31,868	42	1,787
Indiana	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
	2001	99	16,007	47	1,103
Iowa	1997	98	36,144	19	2,323
	1998	98	31,911	18	1,534
	1999	99	27,966	25	2,462
	2000	100	24,518	16	635
	2001	99	20,627	7	864
Kansas	1998	95	5,357	49	400
	1999	98	6,619	32	385
	2000	93	7,765	31	287
	2001	95	9,958	24	657
Kentucky	1998	99	4,174	*	*
	1999	94	3,487	50	22
	2000	95	2,600	26	65
	2001	97	2,834	18	43
Michigan	1997	98	6,912	11	200
	1998	97	5,740	17	299
	1999	99	6,128	22	214
	2000	99	5,658	10	131
	2001	88	4,944	22	288
Minnesota	1997	91	13,956	10	291
	1998	97	14,248	10	353
	1999	98	11,126	11	280
	2000	99	10,597	8	369
	2001	99	13,446	*	*
Missouri	1997	97	8,203	35	475
	1998	95	7,718	44	291
	1999	98	7,988	38	218
	2000	87	5,988	20	114
	2001	97	7,232	37	167

See footnote(s) at end of table.

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Pesticide Usage: Corn 1/ (continued)

State and Year Surveyed	Percent Treated and Amount Applied			
	Herbicide		Insecticide 2/	
	Area Applied	Pounds Applied	Area Applied	Pounds Applied
	<i>percent</i>	<i>thousand</i>	<i>percent</i>	<i>thousand</i>
Nebraska				
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
2001	99	15,159	48	1,104
New York				
2000	92	2,312	31	204
2001	96	2,610	19	69
North Carolina				
1998	96	2,150	32	283
1999	82	1,340	35	222
2000	93	1,732	46	363
2001	96	1,558	37	181
North Dakota				
2000	71	1,284	*	*
2001	90	745	*	*
Ohio				
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
2001	99	9,986	26	647
Pennsylvania				
1998	97	4,436	44	262
2000	100	4,419	57	302
2001	99	4,484	60	550
South Dakota				
1997	93	6,346	10	317
1998	95	9,947	*	*
1999	95	5,862	18	520
2000	100	5,790	15	44
2001	96	5,622	8	87
Texas				
1998	94	2,520	68	1,191
1999	93	3,190	54	458
2000	81	2,039	55	426
2001	90	1,990	76	664
Wisconsin				
1997	98	8,689	19	433
1998	97	7,939	24	593
1999	96	5,421	31	473
2000	95	6,410	20	365
2001	98	6,265	16	155

1/ Data not available for all States for all years. 2/ 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 Surveyed	Percent Treated and Amount Applied			
	Herbicide		Insecticide 2/	
	Area Applied	Pounds Applied	Area Applied	Pounds Applied
	<i>percent</i>	<i>thousand</i>	<i>percent</i>	<i>thousand</i>
Alabama				
1997	100	1,667	85	469
1998	99	1,300	91	422
1999	99	1,154	87	436
2000	97	1,435	67	270
Arizona				
1997	87	534	85	705
1998	95	426	91	677
1999	90	519	60	360
2000	94	497	66	455
Arkansas				
1997	89	2,882	77	678
1998	93	2,119	98	886
1999	96	1,949	85	900
2000	95	1,993	82	1,610
2001	96	2,312	53	2,038
California				
1997	93	1,227	92	2,242
1998	99	879	98	800
1999	98	1,006	94	861
2000	99	1,475	90	1,051
2001	*	*	*	*
Georgia				
1997	100	4,623	90	895
1998	99	3,629	84	869
1999	98	4,249	92	816
2000	98	3,526	81	725
2001	93	2,958	59	366
Louisiana				
1997	90	2,331	85	1,789
1998	96	1,655	98	2,385
1999	98	1,763	98	4,206
2000	96	1,825	98	4,795
2001	95	2,552	93	2,217
Mississippi				
1997	100	3,124	100	3,972
1998	100	2,588	98	4,757
1999	100	3,821	98	6,580
2000	98	3,557	99	6,112
2001	99	3,913	92	3,306
Missouri				
1997	100	839	71	210
2000	94	677	90	360
North Carolina				
1997	97	1,832	92	339
1998	95	1,494	92	363
1999	96	2,079	91	533
2000	99	2,375	94	510
2001	*	*	*	*
South Carolina				
1997	100	875	98	241
Tennessee				
1997	98	1,275	85	417
1998	100	1,127	97	1,297
1999	96	1,385	95	1,222
2000	99	1,347	100	4,333
Texas				
1997	97	6,401	62	6,327
1998	93	6,989	47	2,833
1999	97	7,081	76	23,417
2000	92	7,847	69	20,639
2001	85	5,921	58	14,587

See footnote(s) at end of table.

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Pesticide Usage: Upland Cotton 1/ (continued)

State and Year Surveyed	Percent Treated and Amount Applied			
	Fungicide		Other Chemicals	
	Area Applied	Pounds Applied	Area Applied	Pounds Applied
	<i>percent</i>	<i>thousand</i>	<i>percent</i>	<i>thousand</i>
Alabama				
1997	17	22	69	482
1998	16	52	85	454
1999	30	130	78	617
2000	16	84	58	398
Arizona				
1997	*	*	86	770
1998	4	6	97	947
1999	(3/)	(3/)	95	1,361
2000	10	31	79	670
Arkansas				
1997	10	83	84	1,335
1998	19	71	93	1,490
1999	17	140	97	2,372
2000	17	57	89	1,459
2001	8	9	78	1,395
California				
1997	*	*	98	3,471
1998	*	*	99	1,611
1999	1	7	100	2,406
2000	1	9	99	2,714
2001	*	*	*	*
Georgia				
1997	(3/)	(3/)	85	4,397
1998	*	*	72	2,322
1999	*	3	78	2,992
2000	(3/)	(3/)	78	3,258
2001	(3/)	(3/)	65	1,902
Louisiana				
1997	19	85	66	469
1998	22	76	83	499
1999	9	40	88	707
2000	23	229	88	749
2001	16	70	88	931
Mississippi				
1997	30	447	97	1,556
1998	16	115	92	1,103
1999	17	180	99	1,980
2000	15	131	99	1,986
2001	5	22	95	2,461
Missouri				
1997	*	*	99	573
2000	*	*	97	695
North Carolina				
1997	*	*	96	1,093
1998	9	30	89	909
1999	6	42	57	996
2000	4	19	91	1,921
2001	*	*	*	*
South Carolina				
1997	18	5	96	467
Tennessee				
1997	29	123	79	551
1998	37	61	93	547
1999	27	132	89	585
2000	20	77	93	691
Texas				
1997	(3/)	(3/)	53	2,398
1998	*	*	45	2,113
1999	1	49	32	1,840
2000	(3/)	(3/)	29	1,593
2001	1	19	20	1,330

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.

Environmental

Pesticide Usage: Fall Potatoes 1/

State and Year Surveyed	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				
1997	92	962	92	1,057
1999	92	953	92	1,066
2001	75	714	93	853
Indiana				
1999	67	9	99	2
Maine				
1997	96	39	97	68
1999	100	25	97	29
2001	92	28	88	13
Michigan				
1999	100	101	100	52
Minnesota				
1997	28	35	99	84
1999	86	82	91	54
2001	78	53	95	18
North Dakota				
1997	63	134	77	161
1999	83	94	95	121
2001	*	*	*	*
Oregon				
1997	94	142	85	178
1999	100	129	89	183
2001	*	*	*	*
Pennsylvania				
1998	90	36	99	32
1999	94	35	99	47
Washington				
1997	85	264	99	644
1999	98	360	99	810
2001	92	290	95	647
Wisconsin				
1997	98	70	95	95
1998	96	85	97	119
1999	98	84	100	193
2001	88	73	100	110

See footnote(s) at end of table.

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Pesticide Usage: Fall Potatoes 1/ (continued)

State and Year Surveyed	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				
1997	100	2,233	59	40,356
1999	92	1,502	56	53,358
2001	70	691	59	46,698
Indiana				
1999	29	10	*	*
Maine				
1997	99	641	96	1,609
1999	100	553	24	89
2001	98	530	97	405
Michigan				
1999	99	609	56	137
Minnesota				
1997	98	816	82	113
1999	93	577	16	2,103
2001	97	431	56	456
North Dakota				
1997	99	1,232	36	22
1999	99	966	5	1,315
2001	*	*	*	*
Oregon				
1997	93	346	69	8,306
1999	97	314	65	7,489
2001	*	*	*	*
Pennsylvania				
1998	99	152	69	5
1999	95	125	3	4
Washington				
1997	95	1,084	71	9,658
1999	97	1,206	75	19,377
2001	91	1,108	78	14,470
Wisconsin				
1997	100	1,103	87	3,601
1998	99	1,065	91	2,538
1999	98	921	16	1,104
2001	97	1,193	86	2,644

1/ Data not available for all States for all years. 2/ 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: Soybeans 1/

State and Year	Area 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>
Arkansas				
1997	97	5,019	*	*
1998	75	3,058	4	37
1999	94	3,670	9	17
2000	86	2,918	3	4
2001	80	2,440	*	*
Delaware				
1997	78	314	*	*
Illinois				
1997	98	11,136	*	*
1998	95	11,354	*	*
1999	96	10,290	*	20
2000	98	10,582	1	3
2001	96	10,102	*	*
Indiana				
1997	99	7,062	(3/)	(3/)
1998	98	5,798	(3/)	(3/)
1999	89	5,750	*	*
2000	99	5,414	*	*
2001	98	5,612	*	*
Iowa				
1997	99	13,691	(3/)	(3/)
1998	100	11,866	(3/)	(3/)
1999	99	11,995	*	*
2000	98	13,053	*	*
2001	95	11,704	*	*
Kansas				
1997	94	2,947	*	*
1998	95	2,156	*	*
1999	97	3,273	*	1
2000	94	2,953	*	*
Kentucky				
1997	91	1,460	*	*
1998	98	1,239	*	*
1999	94	1,037		
2000	88	1,151	1	6
Louisiana				
1997	90	1,843	29	331
1998	89	1,442	32	217
1999	94	1,123	53	229
2000	96	1,091	56	173
Michigan				
1997	98	2,452	(3/)	(3/)
1998	98	2,620	*	*
1999	97	2,342	*	*
2000	98	2,094	*	*
Minnesota				
1997	96	6,902	(3/)	(3/)
1998	97	6,071	*	*
1999	97	6,203		
2000	95	7,151	(3/)	(3/)
2001	99	6,363	*	*

See footnote(s) at end of table.

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Pesticide Usage: Soybeans (continued) 1/

State and Year Surveyed	Area 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>
Mississippi				
1997	98	2,453	*	*
1998	100	2,948	6	33
1999	99	2,967	9	78
2000	99	2,096	5	23
Missouri				
1997	94	5,521	(3/)	*
1998	92	6,152	(3/)	(3/)
1999	97	5,556		
2000	98	5,867	(3/)	(3/)
2001	95	4,691	(3/)	(3/)
Nebraska				
1997	99	4,093	*	*
1998	88	4,226	*	*
1999	96	4,758	1	10
2000	98	5,795	*	*
2001	96	5,336	*	*
North Carolina				
1997	98	1,625	35	130
1998	84	1,440	3	20
1999	88	1,283	3	3
2000	92	1,016	7	15
North Dakota				
2000	99	2,046	(3/)	(3/)
Ohio				
1997	99	5,307	*	*
1998	99	5,435	*	*
1999	99	4,758	*	3
2000	98	4,586	1	2
2001	96	4,216	(3/)	(3/)
Pennsylvania				
1997	86	661	(3/)	(3/)
1999	99	429	11	20
South Dakota				
1997	90	3,059	*	*
1998	96	3,706	*	*
1999	98	3,943		
2000	98	4,863	(3/)	(3/)
Tennessee				
1997	100	1,664	*	*
1998	98	1,926	*	*
1999	98	1,405	2	19
2000	95	1,319	1	8
Wisconsin				
1997	100	998	(3/)	(3/)
2000	85	1,169	(3/)	(3/)

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.

Environmental

Pesticide Usage: Wheat 1/

Type, State, and Year Surveyed	Area Treated and Amount Applied					
	Herbicide		Insecticide 2/		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						
Arkansas						
2000	41	239	*	*	*	*
California						
1998	47	146	*	*	*	*
Colorado						
1997	64	803	13	321	(3/)	(3/)
1998	61	610	*	*	*	*
2000	23	281	*	*	*	*
Georgia						
1998	38	80	*	*	18	6
Idaho						
1997	98	631	(3/)	(3/)	(3/)	(3/)
1998	88	495	*	*	*	*
2000	89	411	4	15	*	*
Illinois						
1997	40	16	(3/)	(3/)	(3/)	(3/)
1998	47	17	*	*	*	*
2000	44	21	*	*	*	*
Indiana						
1999	39	28	*	*	*	*
Kansas						
1997	31	819	(3/)	(3/)	(3/)	(3/)
1998	35	1,620	(3/)	(3/)	(3/)	(3/)
2000	31	478	8	395	*	*
Kentucky						
2000	51	57	8	15	6	5
Louisiana						
1998	*	*	*	*	10	2
Mississippi						
1998	55	78	*	*	11	4
Missouri						
1997	33	67	(3/)	(3/)	(3/)	(3/)
1998	28	12	(3/)	(3/)	(3/)	(3/)
2000	51	47	*	*	2	4
Montana						
1997	88	1,089	*	*	*	*
1998	89	889	(3)	(3/)	(3/)	(3/)
2000	91	745	*	*	*	*
Nebraska						
1997	53	189	(3/)	(3/)	(3/)	(3/)
1998	52	320	*	*	*	*
2000	26	248	*	*	*	*
North Carolina						
1998	60	92	13	11	15	13
2000	65	206	19	3	*	*
Ohio						
1997	20	56	(3/)	(3/)	(3/)	(3/)
1998	13	75	(3/)	(3/)	(3/)	(3/)
2000	18	53	*	*	*	*
Oklahoma						
1997	38	435	13	234	(3/)	(3/)
1998	42	827	6	89	*	*
2000	25	94	*	*	*	*
Oregon						
1997	100	516	*	*	24	87
1998	100	415	*	*	21	107
2000	99	550	*	*	13	62

See footnote(s) at end of table.

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Pesticide Usage: Wheat (continued) 1/

Type, State, and Year Surveyed	Area Treated and Amount Applied					
	Herbicide		Insecticide 2/		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						
2000	21	8	*	*	*	*
South Dakota						
1997	89	383	(3/)	(3/)	(3/)	(3/)
1998	88	589	*	*	*	*
2000	56	415	*	*	*	*
Texas						
1997	24	181	18	351	*	*
1998	27	435	7	177	*	*
2000	12	441	1	26	*	*
Washington						
1997	98	1,584	*	*	1	4
1998	97	1,718	*	*	3	49
2000	95	847	*	*	*	*
Durum Wheat						
North Dakota						
1997	93	2,221	2	12	*	*
1998	98	2,631	*	*	*	*
2000	97	2,807	*	*	*	*
Other Spring						
Idaho						
1998	95	392	*	*	*	*
Minnesota						
1997	94	1,434	*	*	*	*
1998	97	1,396	11	65	37	100
2000	92	1,845	*	*	*	*
Montana						
1997	94	3,254	*	*	*	*
1998	81	1,816	*	*	*	*
2000	92	2,955	*	*	*	*
North Dakota						
1997	88	4,583	*	*	*	*
1998	98	4,053	7	176	7	52
2000	97	4,205	*	*	*	*
Oregon						
1998	98	87	(3/)	(3/)	(3/)	(3/)
South Dakota						
1997	86	886	*	*	*	*
1998	73	698	*	*	*	*
2000	93	619	*	*	*	*
Washington						
1998	100	552	*	*	*	*

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.