

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 1994-95, fruits for 1995, and vegetables for 1994. 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, 1994-95¹

Crop	Area Planted ²	Nitrogen	Phosphate	Potash
	<i>1,000 Acres</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
1994:				
Corn	62,500	97	83	72
Cotton, Upland	10,023	86	54	37
Potatoes, Fall	1,139.6	100	98	91
Soybeans	43,975	13	20	25
Wheat, Winter ³	34,590	86	49	15
Wheat, Durum	2,450	85	69	4
Wheat, Other Spring	17,250	88	77	23
1995:				
Corn	64,105	97	81	70
Cotton, Upland	11,650	87	56	40
Potatoes, Fall	1,147.0	99	98	89
Soybeans	31,840	17	22	25
Wheat, Winter ³	34,265	86	54	16
Wheat, Durum	2,950	92	78	10
Wheat, Other Spring	15,750	87	78	23

¹ Refers to acres receiving one or more applications of a specific fertilizer ingredient. See tables XXX - XXX for surveyed States.

² Acres are the estimates as of the survey period and may not reflect subsequent revisions to the published estimates for a given crop.

³ Area harvested for winter wheat.

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Table 14-2.—Corn: Pesticide, total acreage, percent of area receiving applications and total applied, for States surveyed, 1994-95 ¹

State	Area Planted ²	Herbicide		Insecticide		Fungicide		Other Chemical	
	1,000 Acres	Per-cent	1,000 Lbs	Per-cent	1,000 Lbs	Per-cent	1,000 Lbs	Per-cent	1,000 Lbs
1994:									
IL	11,600	99	37,870	31	3,009	.....	.....	.....	.....
IN	6,100	97	19,601	24	1,191	.....	.....	.....	.....
IA	13,000	99	38,199	27	2,947	.....	.....	.....	.....
MI	2,550	97	6,967	24	575	.....	.....	.....	.....
MN	7,000	98	15,218	8	491	.....	.....	.....	.....
MO	2,400	96	6,749	16	170	.....	.....	.....	.....
NE	8,600	97	18,735	53	3,468	.....	.....	.....	.....
OH	3,700	98	11,382	19	537	.....	.....	.....	.....
SD	3,800	93	7,022	7	402	.....	.....	.....	.....
WI	3,750	97	8,456	25	906	.....	.....	.....	.....
Total	62,500	98	170,221	27	13,695	.....	.....	.....	.....
1995:									
DE	145	96	427	43	26	.....	.....	.....	.....
GA	400	89	712	19	88	.....	.....	.....	.....
IL	10,200	98	30,811	28	2,118	.....	.....	.....	.....
IN	5,400	97	16,842	20	759	**	**	.....	.....
IA	11,700	99	32,957	28	2,821	**	**	.....	.....
KS	2,150	92	4,397	39	645	.....	.....	.....	.....
NC	800	98	1,679	29	286	.....	.....	.....	.....
KY	1,280	94	3,537	15	56	.....	.....	.....	.....
MI	2,450	100	6,791	18	370	.....	.....	.....	.....
MN	6,700	98	15,822	6	400	.....	.....	.....	.....
MO	1,650	94	4,443	30	242	.....	.....	.....	.....
NE	8,000	95	18,804	54	3,104	**	**	.....	.....
OH	3,300	98	10,233	17	419	**	**	.....	.....
PA	1,380	93	4,169	29	295	.....	.....	.....	.....
SD	2,800	92	4,691	7	153	.....	.....	.....	.....
TX	2,100	91	2,840	58	843	.....	.....	.....	.....
WI	3,650	96	8,487	25	830	.....	.....	.....	.....
Total	64,105	96	167,642	27	13,457	*	17	.....	.....

¹ Refers to acres receiving one or more applications of a specific pesticide class. Blank entries indicate none reported for a sample. Totals may not add due to rounding. ² Acres planted are the estimates as of the survey period and may not reflect subsequent revisions to the published estimates for a given State. * Applied on less than one percent of acres. ** Insufficient reports to publish data.

Table 14-3.—Upland Cotton: Pesticide, total acreage, percent of area receiving applications and total applied, selected States and total, 1994-95 ¹

State	Area Planted ²	Herbicide		Insecticide		Fungicide		Other Chemical	
	1,000 Acres	Per-cent	1,000 Lbs	Per-cent	1,000 Lbs	Per-cent	1,000 Lbs	Per-cent	1,000 Lbs
1994:									
AZ	313	75	358	83	1,123	**	**	74	1,098
AR	980	97	4,057	94	1,584	22	162	86	1,251
CA	1,100	84	1,613	94	1,787	**	**	96	4,645
LA	900	87	2,996	100	3,737	21	84	77	724
MS	1,280	100	5,385	100	5,217	36	452	93	1,819
TX	5,450	96	6,460	50	3,998	1	34	48	1,872
Total	10,023	94	20,868	71	17,447	10	778	66	11,408
1995:									
AZ	365	89	484	97	1,709	**	**	92	1,726
AR	1,170	98	4,208	84	1,527	20	201	55	781
CA	1,170	88	1,861	96	2,835	**	**	96	6,713
LA	1,085	98	2,400	98	3,176	17	71	70	752
MS	1,460	98	6,234	93	5,691	30	350	91	1,951
TX	6,400	98	7,430	61	5,729	**	**	36	1,654
Total	11,650	97	22,618	75	20,668	8	719	56	13,577

¹ Refers to acres receiving one or more applications of a specific pesticide class. Totals may not add due to rounding.
² Acres planted are the estimates as of the survey period and may not reflect subsequent revisions to the published estimates for a given State. **Insufficient reports to publish data.

Table 14-4.—Fall potatoes: Pesticide, total acreage, percent of area receiving applications and total applied, for selected States surveyed, 1994-95 ¹

State	Area Planted ²	Herbicide		Insecticide		Fungicide		Other Chemical	
	1,000 Acres	Per-cent	1,000 Lbs	Per-cent	1,000 Lbs	Per-cent	1,000 Lbs	Per-cent	1,000 Lbs
1994:.									
CO	74.0	80	246	70	52	95	174	33	1,269
ID	410.0	91	1,058	75	897	53	411	41	35,245
ME	78.0	94	54	93	219	100	945	99	601
MI	44.0	96	63	100	361	100	484	78	215
MN	74.0	52	105	100	66	94	220	81	30
NY	29.1	69	43	99	385	80	195	51	8
ND	133.0	58	109	99	179	100	660	53	266
OR	53.5	91	168	86	253	77	177	59	4,263
PA	19.0	64	36	100	179	97	176	42	75
WA	152.0	90	339	99	843	92	807	82	20,137
WI	73.0	91	81	100	143	99	854	91	1,963
Total	1,139.6	83	2,301	88	3,580	80	5,104	60	64,072
1995:.									
CO	77.0	89	223	65	21	94	140	26	2,192
ID	400.0	93	1,125	76	771	63	681	41	29,233
ME	78.0	96	43	100	66	100	629	93	358
MI	55.0	85	117	100	90	96	602	62	436
MN	83.0	66	94	90	95	100	567	71	669
NY	29.0	86	52	93	68	91	211	65	16
ND	125.0	60	128	100	263	100	759	41	1,671
OR	52.0	92	134	92	233	90	323	64	5,652
PA	18.0	91	53	95	38	95	175	54	12
WA	147.0	93	305	98	694	92	1,458	77	16,981
WI	83.0	94	100	97	214	100	1,000	89	2,654
Total	1,147.0	87	2,376	88	2,553	85	6,546	57	59,877

¹ Refers to acres receiving one or more applications of a specific pesticide class. Totals may not add due to rounding.
² Acres planted are the estimates as of the survey period and may not reflect subsequent revisions to the published estimates for a given State.

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Table 14-5.—Soybeans: Pesticide, total acreage, percent of area receiving applications and total applied, selected States and total, 1994-95 ¹

State	Area Planted ²	Herbicide		Insecticide		Fungicide		Other Chemical	
	1,000 Acres	Per-cent	1,000 Lbs	Per-cent	1,000 Lbs	Per-cent	1,000 Lbs	Per-cent	1,000 Lbs
1994:									
AR	3,450	98	4,469	2	64	**	**	.....	.....
DE	225	87	359	**	**	**	**	.....	.....
IL	9,600	99	11,622	**	**	.....	.....	.....	.....
IN	4,700	99	6,292	**	**	.....	.....	.....	.....
IA	8,800	99	7,643	.....	.....	.....	.....	.....	.....
MN	5,700	99	5,275	**	**	.....	.....	.....	.....
MO	4,600	93	4,454	**	**	.....	.....	.....	.....
NE	2,900	97	2,916	**	**	.....	.....	.....	.....
OH	4,000	99	6,357	.....	.....	**	**	.....	.....
Total	43,975	98	49,385	1	145	*	32	.....	.....
1995:									
AR	3,450	91	3,564	.....	.....	.....	.....	.....	.....
GA	320	87	245	34	69	.....	.....	.....	.....
IL	9,750	98	10,181	.....	.....	.....	.....	.....	.....
IN	5,000	99	6,019	**	**	.....	.....	.....	.....
IA	9,300	100	8,936	.....	.....	.....	.....	.....	.....
KY	1,170	98	1,377	.....	.....	.....	.....	.....	.....
LA	1,070	95	1,394	38	241	**	**	.....	.....
MN	5,900	99	5,471	.....	.....	.....	.....	.....	.....
MS	1,850	99	2,587	**	**	**	**	.....	.....
MO	4,600	94	4,918	**	**	.....	.....	.....	.....
NE	3,100	96	3,001	**	**	.....	.....	.....	.....
NC	1,150	91	1,228	10	17	.....	.....	.....	.....
OH	4,050	98	5,923	**	**	.....	.....	.....	.....
TN	1,130	100	1,595	**	**	.....	.....	.....	.....
Total	51,840	97	56,439	2	427	*	11	.....	.....

¹ Refers to acres receiving one or more applications of a specific pesticide class. Blank entries indicate none reported for sample. Totals may not add due to rounding. ² Acres planted are the estimates as of the survey period and may not reflect subsequent revisions to the published estimates for a given State. * Applied on less than one percent of acres. ** Insufficient reports to publish data.

Table 14-6.—Winter wheat: Pesticide, total acreage, percent of area receiving applications and total applied, selected States and total, 1994-95¹

State	Area Har- vested ² 1,000 Acres	Herbicide		Insecticide		Fungicide		Other Chemical	
		Per- cent	1,000 Lbs	Per- cent	1,000 Lbs	Per- cent	1,000 Lbs	Per- cent	1,000 Lbs
1994:									
CO	2,550	34	251	18	275	.....	.....	.....	.....
ID	790	83	547	.....	.....	**	**	.....	.....
IL	900	30	23	.....	.....	.....	.....	.....	.....
KS	11,400	48	1,216	**	**	.....	.....	.....	.....
MO	1,100	8	14	**	**	.....	.....	.....	.....
MT	1,850	95	1,175	7	14	.....	.....	.....	.....
NE	2,100	57	361	.....	.....	.....	.....	.....	.....
OH	1,180	22	74	.....	.....	.....	.....	.....	.....
OK	5,300	27	172	41	827	.....	.....	.....	.....
OR	870	98	556	**	**	10	23	.....	.....
SD	1,350	84	338	.....	.....	.....	.....	.....	.....
TX	2,900	27	214	30	387	.....	.....	.....	.....
WA	2,300	89	1,134	**	**	**	**	.....	.....
Total	34,590	49	6,074	11	1,557	1	77	.....	.....
1995:									
CO	2,700	51	422	**	**	.....	.....	.....	.....
ID	770	90	446	.....	.....	**	**	.....	.....
IL	1,390	26	16	.....	.....	**	**	.....	.....
KS	11,000	61	1,095	**	**	**	**	.....	.....
MO	1,230	6	14	.....	.....	.....	.....	.....	.....
MT	1,370	99	685	**	**	.....	.....	.....	.....
NE	2,100	53	235	.....	.....	.....	.....	.....	.....
OH	1,210	16	51	.....	.....	**	**	.....	.....
OK	5,200	50	278	17	255	**	**	.....	.....
OR	825	98	513	**	**	10	25	.....	.....
SD	1,520	63	368	.....	.....	**	**	.....	.....
TX	2,800	32	218	23	253	**	**	.....	.....
WA	2,150	93	1,067	.....	.....	.....	.....	.....	.....
Total	34,265	56	5,408	5	679	1	108	.....	.....

¹ Refers to acres receiving one or more applications of a specific pesticide class. Blank entries indicate none reported for sample. Totals may not add due to rounding. ² Acres harvested are the estimates as of the survey period and may not reflect subsequent revisions to the published estimates for a given State. ** Insufficient reports to publish data.

Table 14-7.—Durum and other spring wheat: Pesticide, total acreage, percent of area receiving applications and total applied, selected States by type and total other spring, 1994-95 ¹

State	Area Planted ²	Herbicide		Insecticide		Fungicide		Other Chemical	
	1,000 Acres	Per-cent	1,000 Lbs	Per-cent	1,000 Lbs	Per-cent	1,000 Lbs	Per-cent	1,000 Lbs
1994:									
Durum.									
ND	2,450	95	1,378	.....	.....	6	86	.....	.....
Other.									
Spring.									
MN	2,600	98	1,745	**	10	**	**	.....	.....
MT	3,450	94	1,394	.....	.....	.....	.....	.....	.....
ND	9,100	96	4,758	.....	.....	**	**	.....	.....
SD	2,100	83	633	.....	.....	.....	.....	.....	.....
Total ..	17,250	94	8,529	*	10	2	618	.....	.....
1995:									
Durum.									
ND	2,950	96	1,821	.....	.....	**	**	.....	.....
Other.									
Spring.									
MN	2,250	97	1,410	**	18	**	**	.....	.....
MT	3,950	90	2,118	.....	.....	.....	.....	.....	.....
ND	8,300	94	4,165	.....	.....	**	**	.....	.....
SD	1,250	97	431	.....	.....	.....	.....	.....	.....
Total ..	15,750	94	8,125	*	18	3	275	.....	.....

¹ Refers to acres receiving one or more applications of a specific pesticide class. Blank entries indicate none reported for sample. Totals may not add due to rounding. ² Acres planted are the estimates as of the survey period and may not reflect subsequent revisions to the published estimates for a given State. * Applied on less than one percent of acres. ** Insufficient reports to publish data.

Table 14-8.—Fruits: Percent of acres receiving applications, for surveyed States, 1995¹

Crop	Nitrogen	Phosphate	Potash	Herbicide	Insecticide	Fungicide
	<i>Percent</i>					
Apples	77	37	44	63	98	93
Apricots	67	30	30	34	83	92
Avocados	96	41	50	29	15	9
Blackberries	97	94	95	91	90	85
Blueberries	93	63	80	73	86	87
Cherries, Sweet	84	34	37	61	92	93
Cherries, Tart	86	23	50	67	94	98
Dates	75	22	**	29	12	54
Figs	65	20	27	54	**	.....
Grapefruit	97	72	87	92	89	86
Grapes	84	28	40	74	67	90
Kiwifruit	84	11	19	65	13	**
Lemons	94	11	26	83	73	64
Limes	92	61	92	**	99	99
Nectarines	92	51	52	82	97	96
Olives	78	6	7	54	14	30
Oranges	99	48	75	97	94	69
Peaches	90	39	56	66	97	97
Pears	88	31	29	65	96	90
Plums	75	21	23	48	75	71
Prunes	88	21	44	46	73	84
Raspberries	98	97	97	92	83	90
Tangelos	99	69	99	99	96	82
Tangerines	97	60	73	83	90	73
Temples	100	48	95	99	98	97

¹ Refers to acres receiving one or more applications of a specific agricultural chemical.
 ** Insufficient reports to publish data. Blank entries indicate none reported for sample.
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Table 14-9.—Vegetables: Percent of acres receiving applications, for surveyed States, 1994¹

Crop	Nitrogen	Phosphate	Potash	Herbicide	Insecticide	Fungicide
	<i>Percent</i>					
Asparagus	80	26	46	91	70	23
Beans, Lima, Fresh	100	100	100	83	48	71
Beans, Lima, Processing ...	77	49	37	70	84	24
Beans, Snap, Fresh	94	86	85	60	79	63
Beans, Snap, Processing ...	99	94	89	91	58	41
Broccoli	96	80	63	67	96	36
Cabbage, Fresh	98	92	85	55	97	60
Cabbage, Processing	100	100	100	93	97	12
Carrots	98	93	78	72	34	71
Cauliflower	95	92	69	62	99	51
Celery	98	96	96	64	100	99
Corn, Sweet, Fresh	95	92	91	79	81	36
Corn, Sweet, Processing ...	99	91	84	94	66	9
Cucumbers, Fresh	99	85	94	45	74	81
Cucumbers, Processing	99	94	93	77	48	30
Eggplant	98	77	98	22	91	72
Lettuce, Head	100	83	45	60	100	77
Lettuce, Other	84	75	54	46	89	60
Melons, Cantaloupe	98	67	44	41	82	41
Melons, Honeydew	99	83	31	21	88	40
Melons, Watermelon	96	88	79	41	45	64
Onions, Bulb	98	92	66	88	76	89
Peas, Green, Processing ...	79	64	64	93	50	(*)
Peppers, Bell	96	80	82	57	92	73
Spinach, Fresh	86	76	65	52	75	46
Spinach, Processing	100	100	50	66	62	44
Strawberries	95	89	88	41	88	89
Tomatoes, Fresh	98	89	88	52	94	91
Tomatoes, Processing	98	93	53	76	71	86

¹ Refers to acres receiving one or more applications of a specific agricultural chemical.
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