

# Agricultural Chemical Use, 1998

By David W. Hancock

**Selected Field Crops -- Nitrogen:** Pennsylvania farmers applied nitrogen to 88 percent of the 1,550,000 acres of corn planted in 1998. Total nitrogen applied to corn in 1998 was 128.5 million pounds. One hundred percent of the State's 14,500 acres of fall potatoes received one or more applications of nitrogen. Total nitrogen applied to fall potatoes was 2.1 million pounds.

**Phosphate:** Phosphate was applied to 71 percent of the State's corn acres planted in 1998. Total phosphate applied to corn in 1998 was 54.4 million pounds. Ninety-seven percent of the Commonwealth's 14,500 acres of fall potatoes planted in 1998 received a phosphate application. A total of 1.6 million pounds of phosphate was applied to the 1998 fall potato acreage.

**Potash:** Corn growers in the State applied potash to 69 percent of the 1,550,000 acres they planted in 1998. Total amount applied was 41.4 million pounds. Fall potato producers applied potash to 96 percent of their planted acres. A total of 2.1 million pounds was applied.

**Pesticides:** Herbicides were applied to 97 percent of the 1,550,000 acres of corn planted and 90 percent of the 14,500 acres of fall potatoes planted. Insecticides were applied to 44 percent of corn acreage in Pennsylvania for the 1998 crop year. Both insecticides and fungicides were applied to 99 percent of the fall potato acreage.

Atrazine was the most common pesticide applied to corn, with 87 percent of the acres receiving treatment. Imidacloprid and Mancozeb were applied to 87 percent of the fall potato acreage.

Pennsylvania: Total Acreage & Acreage Receiving Pesticide Applications, Specified Crops, 1998

Crop	Area Planted	Area Receiving Treatment		
		Herbicide	Insecticide	Fungicide
	<i>Acres</i>	<i>Percent</i>		
Corn	1,550,000	97	44	0
Fall Potatoes	14,500	90	99	99

Pennsylvania: Frequency & Extent of Fertilizer Usage, Specified Crops, 1998

Crop & Nutrient	Area Planted	Area Applied	Applications	Rate Per Application	Rate Per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Mil. Pounds</i>
<b>Nitrogen</b>						
Corn	1,550,000	88	1.50	62	94	128.5
Fall Potatoes	14,500	100	2.10	74	143	2.1
<b>Phosphate</b>						
Corn	1,550,000	71	1.10	45	50	54.4
Fall Potatoes	14,500	97	1.60	86	107	1.6
<b>Potash</b>						
Corn	1,550,000	69	1.10	34	39	41.4
Fall Potatoes	14,500	96	2.10	110	142	2.1

Pennsylvania: Frequency & Extent of Pesticide Usage, Specified Crops, 1998<sup>1</sup>

Crop & Agricultural Chemical	Area Planted	Area Applied	Applications	Active Ingredient		
				Rate Per Application	Rate Per Crop Year	Total Applied
	<i>Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds Per Acre</i>		<i>1,000 Lbs.</i>
<b>Corn</b>	1,550,000	-	-	-	-	-
Herbicides:	-	-	-	-	-	-
2,4-D	-	11	1.0	0.38	0.40	70
Acetochlor	-	8	1.0	2.14	2.14	265
Atrazine	-	87	1.0	1.14	1.14	1,544
Dicamba	-	16	1.0	0.26	0.27	65
Metolachlor	-	57	1.0	1.57	1.57	1,386
Nicosulfuron	-	9	1.0	0.02	0.02	3
Pendimethalin	-	53	1.0	1.06	1.06	866
Insecticides:	-	-	-	-	-	-
Chlorpyrifos	-	11	1.0	0.97	0.97	172
Cyfluthrin	-	7	1.0	0.005	0.005	1
Tebupirimphos	-	7	1.0	0.11	0.11	11
Tefluthrin	-	10	1.0	0.10	0.10	16
<b>Fall Potatoes</b>	14,500	-	-	-	-	-
Herbicides:	-	-	-	-	-	-
Glyphosate	-	18	1.0	0.89	0.90	2
Metolachlor	-	80	1.0	2.05	2.16	25
Metribuzin	-	84	1.0	0.54	0.56	7
Insecticides:	-	-	-	-	-	-
Dimethoate	-	42	2.0	0.30	0.62	4
Imidacloprid	-	87	1.2	0.15	0.18	2
Methamidophos	-	43	1.1	0.73	0.87	5
Methyl parathion	-	26	3.3	0.42	1.42	5
Fungicides:	-	-	-	-	-	-
Chlorothalonil	-	65	3.6	0.84	3.10	29
Copper hydroxide	-	19	2.3	0.32	0.76	2
Mancozeb	-	87	7.1	1.28	9.18	116
Metalaxyl	-	36	2.1	0.16	0.34	2
Other Chemicals:	-	-	-	-	-	-
Diquat	-	68	1.2	0.24	0.31	3

<sup>1</sup> Only the most commonly used pesticides are listed.