

## Corn - Pesticides, Fertilizers, Pest Management Practices

**Nitrogen:** Pennsylvania farmers applied nitrogen to 91 percent of the 1,450,000 acres of corn planted in 2003. Total nitrogen applied to corn in 2003 was 98.6 million pounds. The average rate per application was 48 pounds per acre with the average number of applications of 1.5.

**Phosphate:** Phosphate was applied to 72 percent of Pennsylvania's corn acres planted in 2003. Total phosphate applied to corn in 2003 was 52.2 million pounds.

**Potash:** Corn growers in the State applied potash to 66 percent of the 1,450,000 acres planted in 2003. The total amount

applied was 33.5 million pounds at a rate of 35 pounds per acre per crop year.

**Pesticides:** Herbicides were applied to 92 percent of the corn acreage planted. The herbicide Atrazine was the leading agricultural chemical applied with a total applied of 1,356,000 pounds on 78 percent of Pennsylvania's corn acreage. Insecticides were applied to 31 percent of corn acreage in Pennsylvania for the 2003 crop year. Chlorpyrifos was the most common insecticide applied to corn with a total amount applied of 151,000 pounds on 11 percent of Pennsylvania's corn acreage.

Pennsylvania: Corn - Planted Acreage, Percent of Area Receiving Applications and Total Applied, 2003 <sup>1</sup>

Crop	Planted Acreage	Area Receiving and Total Applied							
		Herbicide		Insecticide <sup>2</sup>		Fungicide		Other	
	1,000 Acres	Percent	1,000 Lbs.	Percent	1,000 Lbs.	Percent	1,000 Lbs.	Percent	1,000 Lbs.
Corn	1,450	92	3,620	31	179	-	-	-	-

<sup>1</sup> Insufficient reports to publish data for one or more pesticide classes. <sup>2</sup> Total Applied excludes Bt's (*Bacillus thuringiensis*) and other biologicals. Quantities are not available because amounts of active ingredient are not comparable between products.

Pennsylvania: Corn - Fertilizer Primary Nutrient Applications, 2003

Primary Nutrient	Planted Acreage	Area Applied	Applications	Rate Per Application	Rate Per Crop Year	Total Applied
	1,000 Acres	Percent	Number	Pounds Per Acre		Million Lbs.
<b>Corn</b>	1,450					
Nitrogen		91	1.5	48	75	98.6
Phosphate		72	1.1	45	50	52.2
Potash		66	1.1	32	35	33.5

Pennsylvania: Corn - Agricultural Chemical Applications 2003 <sup>1</sup>

Active Ingredient	Area Applied	Applications	Rate Per Application	Rate Per Crop Year	Total Applied
	Percent	Number	Pounds Per Acre	Pounds Per Acre	1,000 Lbs.
<b>Herbicides:</b>					
2,4-D	7	1.0	0.62	0.62	65
Acetochlor	6	1.0	1.81	1.81	167
Atrazine	78	1.0	1.18	1.20	1,356
Dicamba	14	1.0	0.15	0.15	30
Clyphosate	20	1.1	0.90	1.02	300
Isoxaflutole	2	1.0	0.05	0.05	1
Mesotrione	7	1.0	0.13	0.13	14
Metolachlor	10	1.0	1.26	1.30	188
Nicosulfuron	12	1.0	0.02	0.02	3
Paraquat	6	1.0	0.63	0.63	53
Pendimethalin	40	1.0	1.02	1.02	594
Primisulfuron	6	1.0	0.01	0.01	1
Rimsulfuron	10	1.0	0.01	0.01	2
S-Metolachlor	36	1.0	1.24	1.24	639
<b>Insecticides:</b>					
Chlorpyrifos	11	1.0	0.92	0.92	151
Tefluthrin	11	1.0	0.13	0.13	21

<sup>1</sup> Planted acres in 2003 for Pennsylvania were 1.5 million acres.