

Corn

Pesticides, Fertilizers, Pest Management Practices:

Nitrogen: Pennsylvania farmers applied nitrogen to 88 percent of the 1,350,000 acres of corn planted in 2005. Total nitrogen applied to corn in 2005 was 108.4 million pounds. The average rate per application was 62 pounds per acre with the average number of applications of 1.5.

Phosphate: Phosphate was applied to 64 percent of Pennsylvania's corn acres planted in 2005. Total phosphate applied to corn in 2005 was 40.7 million pounds.

Potash: Corn growers in the State applied potash to 58 percent of the 1,350,000 acres planted in 2005. The total

amount applied was 37.4 million pounds at a rate of 44 pounds per acre per crop year.

Pesticides: Herbicides were applied to 97 percent of the corn acreage planted. The herbicide Atrazine was the leading agricultural chemical applied with a total applied of 1,291,000 pounds on 87 percent of Pennsylvania's corn acreage. Insecticides were applied to 21 percent of corn acreage in Pennsylvania for the 2005 crop year. Chlorpyrifos was the most common insecticide applied to corn with a total amount applied of 128,000 pounds on 9 percent of Pennsylvania's corn acreage.

Pennsylvania: Corn - Planted Acreage, Pesticide, Percent of Area Receiving Applications and Total Applied, 2005

Crop	Planted acreage (1,000 acres)	Area receiving and total applied							
		Herbicide		Insecticide ²		Fungicide		Other	
Corn	1,350	(percent)	(1,000 lbs.)	(percent)	(1,000 lbs.)	(percent)	(1,000 lbs.)	(percent)	(1,000 lbs.)
		97	3,346	21	154	-	-	-	-

Pennsylvania: Corn - Fertilizer Primary Nutrient Applications, 2005

Primary nutrient	Planted acreage (1,000 acres)	Area applied (percent)	Applications (number)	Rate per application (pounds per acre)	Rate per crop year (pounds per acre)	Total applied (million lbs.)
Corn	1,350					
Nitrogen			88	1.5	62	92
Phosphate			64	1.1	44	47
Potash			58	1.1	44	48
Sulfur			6	1.1	33	37

Pennsylvania: Corn - Agricultural Chemical Applications 2005 ¹

Active ingredient	Area Applied (percent)	Applications (number)	Rate Per Application (pounds per acre)	Rate Per Crop Year (pounds per acre)	Total Applied (1,000 lbs.)
Herbicides					
2,4-D, 2-EHE	5	1.0	0.597	0.597	40
2,4-D, dimeth.salt	6	1.2	0.623	0.731	63
Acetochlor	11	1.0	1.610	1.610	234
Atrazine	87	1.0	1.063	1.096	1,291
Dicamba, Dimet.salt	5	1.0	0.194	0.194	14
Dicamba, Sodium salt	2	1.0	0.106	0.106	2
Diflufenzopyr-sodium	2	1.0	0.042	0.042	1
Glyphosate iso. salt	28	1.1	0.766	0.832	319
Isoxaflutole	5	1.0	0.062	0.062	5
Mesotrione	26	1.0	0.136	0.136	47
Metolachlor	3	1.0	1.217	1.217	49
Nicosulfuron	13	1.0	0.020	0.020	4
Paraquat	9	1.0	0.458	0.458	54
Pendimethalin	26	1.0	0.928	0.928	324
Rimsulfuron	13	1.0	0.011	0.011	2
S-Metolachlor	48	1.0	1.220	1.220	783
Simazine	1	1.0	1.123	1.123	14
Insecticides					
Chlorpyrifos	9	1.0	1.018	1.018	128
Cyfluthrin	2	1.4	0.009	0.013	²
Lambda-cyhalothrin	2	1.0	0.014	0.014	²
Tefluthrin	7	1.0	0.097	0.097	9

¹ Planted acres in 2003 for Pennsylvania were 1.4 million acres. ² Total applied is less than 500 lbs.