

2005 CORN CHEMICAL USAGE

Nitrogen was applied to 96 percent of the 2005 corn planted acreage in the 19 Program States. Corn growers applied an average of 138 pounds of nitrogen per acre per crop year. Phosphate was applied to 81 percent of the corn acreage in the Program States at an average rate of 58 pounds per acre per crop year. Potash, applied at 84 pounds per acre per crop year, was applied to 65 percent of the acreage planted to corn. For the first time, sulfur use was included in the survey and 13 percent of the acres planted received an application at an average rate of 12 pounds per acre per crop year.

Herbicides were applied to 97 percent of the corn planted acreage in 2005 in the Program States. Atrazine continues to be the most widely applied herbicide with 66 percent of the planted acreage being treated. It was applied at an average rate of 1.133 pounds per acre per crop year. Glyphosate isopropylamine salt (formerly recorded as Glyphosate) was applied to 31 percent of planted acres, up from 19 percent in 2003, at an average rate of 0.963 pounds per acre per crop year.

In 2005, 23 percent of the corn planted acreage was treated with insecticides in the Program States. Tefluthrin, Cyfluthrin, and Tebupirimphos were the most widely applied insecticides, at 7, 7, and 6 percent, respectively, to the acres planted to corn in the States surveyed.

CORN: Fertilizer Use by State, 2005 Percent of Acres Treated and Total Applied

State	Planted Acreage	Nitrogen		Phosphate		Potash		Sulfur	
		Percent	Mil. Lbs.	Percent	Mil. Lbs.	Percent	Mil. Lbs.	Percent	Mil. Lbs.
	<u>1,000 Acres</u>								
IL	12,100	98	1,728.3	84	780.4	84	1,160.5	4	14.9
IN	5,900	100	869.3	93	420.2	88	648.2	14	8.1
IA	12,800	92	1,653.2	70	579.0	71	762.3	5	4.5
MN	7,300	94	953.9	86	378.1	77	400.3	9	8.2
ND	1,410	99	169.3	94	58.8	38	13.3	8	0.9
SD	4,450	95	477.7	79	154.2	37	41.9	13	5.5
WI	3,800	93	380.9	84	118.8	84	191.7	22	9.1
Total	76,470	96	10,114.7	81	3,592.8	65	4,136.5	13	125.9

1/ Refers to the 19 major corn states: CO, GA, IL, IN, IA, KS, KY, MI, MN, MO, NE, NY, NC, ND, OH, PE, SD, TX and WI.

CORN: Frequency and Extent of Usage by Active Ingredient, Minnesota, 2005 1/

Active Ingredient	Area Applied	Applications	Rate per Application	Rate per Year	Total Applied
	Percent	Number	Lbs. per Acre	Lbs. per Acre	1,000 Pounds
Herbicides					
Acetochlor	33	1.0	1.271	1.271	3,095
Atrazine	41	1.1	0.490	0.490	1,660
Clopyralid	6	1.0	0.104	0.104	42
Dicamba, Pot. Salt	5	1.0	0.363	0.363	120
Dicamba, Sodium Salt	5	1.0	0.137	0.137	45
Diflufenzopyr-sodium	5	1.0	0.054	1.054	18
Dimethenamid-P	6	1.0	0.950	0.950	388
Flumetsulam	6	1.0	0.035	0.035	14
Glufosinate-ammonium	7	1.0	0.319	0.319	163
Glufosinate	5	1.1	0.722	0.722	270
Glyphosate iso. salt	44	1.2	0.738	0.738	2,853
Mesotrione	17	1.0	0.099	0.099	125
Nicosulfuron	12	1.0	0.025	0.025	22
Rimsulfuron	9	1.0	0.011	0.011	7
S-Metolachlor	8	1.0	1.164	1.164	681
Insecticides					
Chlorpyrifos	2	1.0	0.874	0.874	107
Cyfluthrin	5	1.0	0.016	0.016	7
Tebupirimphos	5	1.0	0.112	0.112	43
Tefluthrin	2	1.0	0.109	0.109	16

1/ Planted acreage in 2005 for Minnesota was 7.3 million acres.