



Nebraska Chemical Usage

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2005 Agricultural Chemical Usage

The agricultural chemical use estimates in this report refer to on-farm use of commercial fertilizers and pesticides on targeted crops for the 2005 crop year. Farm and ranch operators were enumerated late in the growing season after

the farm operator had indicated that planned applications were completed. The data were compiled from the Agricultural Resources Management Study (ARMS) conducted by USDA's National Agricultural Statistics Service.

Corn

Nitrogen was applied to 96 percent of the 2005 corn acreage in the 19 Program States (CO, GA, IL, IN, IA, KS, KY, MI, MN, MO, NE, NY, NC, ND, OH, PA, SD, TX, and WI). Corn growers applied an average of 138 pounds of nitrogen per acre per crop year. In the Program States, 81 percent of the planted corn acreage received phosphates, while potash was applied to 65 percent of the planted acreage.

recorded as Glyphosate) applied to 31 percent of planted acres at an average rate of 0.963 pounds per acre per crop year.

In 2005, insecticides were used on 23 percent of the Program State acres. Tefluthrin, Cyfluthrin, and Tebupirimphos were the most widely applied insecticides, at 7, 7, and 6 percent, respectively.

Herbicides were applied to 97 percent of the corn acreage in 2005. Atrazine continues to be the most widely applied herbicide with 66 percent of the planted acreage being treated, at an average rate of 1.133 pounds per acre per crop year, followed by Glyphosate isopropylamine salt (formerly

In Nebraska, nitrogen was applied to 99 percent of the acreage, phosphates to 75 percent and potash to 22 percent. Herbicides were applied to 98 percent of the corn acreage while insecticide application covered 20 percent.

Corn: Acreage, Fertilizer and Pesticide Applications, Selected States, 2005

State	Planted Acreage	Nitrogen			Phosphate			Potash			Herbicide	Insecticide
		Area Applied	Appli-cations	Rate Per Application	Area Applied	Appli-cations	Rate Per Application	Area Applied	Appli-cations	Rate Per Application	Area Applied	Area Applied
	<i>1,000 Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds/acre</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds/acre</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds/acre</i>	<i>Percent</i>	<i>Percent</i>
Iowa	12,800	92	1.4	98	70	1.1	60	71	1.0	80	96	11
Kansas	3,650	97	1.6	87	81	1.1	35	26	1.0	37	87	11
Missouri	3,100	99	1.4	113	79	1.1	56	78	1.0	72	96	11
Nebraska	8,500	99	2.2	63	75	1.2	32	22	1.3	15	98	20
South Dakota	4,450	95	1.4	79	79	1.1	40	37	1.0	26	100	12
Total ¹	76,470	96	1.8	77	81	1.1	51	65	1.1	78	97	23

¹ Program States include: CO, GA, IL, IN, IA, KS, KY, MI, MN, MO, NE, NY, NC, ND, OH, PA, SD, TX, and WI.

Corn: Agricultural Chemical Applications, Nebraska, 2003 & 2005¹

Agricultural Chemical	Area Applied		Applications		Rate per Application		Rate per Crop Year		Total Applied	
	2003	2005	2003	2005	2003	2005	2003	2005	2003	2005
	<i>Percent</i>	<i>Percent</i>	<i>Number</i>	<i>Number</i>	<i>Pounds/acre</i>	<i>Pounds/acre</i>	<i>Pounds/acre</i>	<i>Pounds/acre</i>	<i>1,000 Lbs.</i>	<i>1,000 Lbs.</i>
Herbicides:										
2,4-D, 2-EHE	2	5	2	1.0	2	0.660	2	0.660	2	278
Acetochlor	25	17	1.0	1.1	1.67	1.552	1.67	1.742	3,323	2,510
Atrazine	72	77	1.0	1.1	0.96	1.052	1.02	1.131	5,985	7,361
Clopyralid	6	7	1.0	1.0	0.09	0.087	0.09	0.087	43	48
Dimethenamid-P	2	5	1.0	1.0	0.58	0.684	0.58	0.684	114	264
Flumetsulam	6	7	1.0	1.0	0.03	0.029	0.03	0.029	15	16
Glufosinate-ammonium	2	6	2	1.0	2	0.415	2	0.415	2	198
Glyphosate iso. salt	18	33	1.2	1.4	0.70	0.769	0.85	1.055	1,261	2,963
Isoxaflutole	14	7	1.0	1.0	0.05	0.040	0.05	0.040	56	24
Mesotrione	13	18	1.0	1.0	0.12	0.120	0.12	0.120	121	182
S-Metolachlor	23	26	1.0	1.0	1.15	1.209	1.15	1.209	2,129	2,678
Insecticides:										
Cyfluthrin	4	5	1.0	1.0	0.009	0.013	0.009	0.013	3	5

¹ Planted acres in 2005 for Nebraska were 8.5 million acres. ² Missing data not published.

Oats

Nitrogen was applied to 56 percent of the 2005 oats acreage in 15 Program States (CA, ID, IL, IA, KS, MI, MN, MT, NE, NY, ND, PA, SD, TX, and WA). Approximately 50 million pounds each of phosphate and potash were applied to 40 and 28 percent, respectively, of the oats acreage in the Program States. For the first time, sulfur usage data were collected and 3.2 million pounds were applied to 9 percent of the acres planted.

Herbicides were applied to 31 percent of the oat acreage in the Program States during 2005. The most widely applied herbicide was 2,4-D dimethylamine salt on 9 percent of the planted acreage, followed by Glyphosate isopropylamine salt

(formerly recorded as Glyphosate) and 2,4-D, 2-EHE (formerly recorded as Acetic Acid) to 5 percent of the planted acreage in the States surveyed.

Lambda-cyhalothrin was the only insecticide with enough reports to publish usage data. It was applied to less than one half of one percent of the 2005 oats planted acreage, at an average application rate of 0.027 pounds per acre per crop year.

In Nebraska, nitrogen was applied to 68 percent of the oats acreage, phosphates to 24 percent, and potash to 7 percent.

Oats: Acreage, Fertilizer and Herbicide Applications, Selected States, 2005

State	Planted Acreage	Nitrogen			Phosphate			Potash			Herbicide
		Area Applied	Applications	Rate Per Application	Area Applied	Applications	Rate Per Application	Area Applied	Applications	Rate Per Application	Area Applied
	<i>1,000 Acres</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds/acre</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds/acre</i>	<i>Percent</i>	<i>Number</i>	<i>Pounds/acre</i>	<i>Percent</i>
Iowa	210	31	1.1	26	30	1.0	39	40	1.0	82	3
Kansas	100	84	1.1	48	39	1.0	37	17	1.0	47	27
Nebraska	150	68	1.0	43	24	1.0	35	7	1.0	14	7
South Dakota	380	64	1.0	48	46	1.0	32	17	1.0	25	37
Total ¹	3,565	56	1.2	44	40	1.0	34	28	1.0	49	31

¹ Program States include: CA, ID, IL, IA, KS, MI, MN, MT, NE, NY, ND, PA, SD, TX, and WA.

Oats: Agricultural Chemical Applications, Nebraska, 2005¹

Agricultural Chemical	Area Applied	Applications	Rate per Application	Rate per Crop Year	Total Applied
	2005	2005	2005	2005	2005
Herbicides:	<i>Percent</i>	<i>Number</i>	<i>Pounds/acre</i>	<i>Pounds/acre</i>	<i>1,000 Lbs.</i>
2,4-D, dimeth. salt	1	1.0	0.444	0.444	1

¹ Planted acreage in 2005 for Nebraska was 150,000 acres.

This year, soybeans were included in this report to capture farmers' reactions to Asian Soybean Rust. However, data were only available from the Conservation Effects Assessment Program (CEAP) survey for 17 states (AR, IN, IL, IA, KS, KY, LA, MI, MN, MS, MO, NE, NC, OH, SD, TN, and VA) because soybeans were not selected as a target crop for ARMS. Results pertaining to soybeans and Asian Soybean Rust are summarized in the link below.

Agricultural chemical use and pest management practices data contained in this publication are a summary of data published in USDA NASS Agricultural Chemical Usage – 2005 Field Crops Summary on the internet at <http://www.nass.usde.gov> dated May 17, 2006.

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