



Wisconsin Ag News – Chemical Use

Oats: Fall 2023



Upper Midwest Region - Wisconsin Field Office · 2811 Agriculture Drive · Madison WI 53718-6777 · (608) 287-4775
fax (855) 271-9802 · www.nass.usda.gov/wi

Cooperating with Wisconsin Department of Agriculture, Trade and Consumer Protection

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Media Contact: Greg Bussler

The National Agricultural Statistics Service (NASS) Agricultural Chemical Use Program is the U.S. Department of Agriculture's official source of statistics about on-farm and post-harvest fertilizer and pesticide use and pest management practices.

In the fall of 2023, NASS collected data for the 2023 crop year, the one-year period beginning after the 2022 harvest and ending with the 2023 harvest, about chemical use and pest management practices used on oat production. The data was collected as part of the Agricultural Resource Management Survey (ARMS) and the results are presented here.

Fertilizer Use: Of the three primary macronutrients, nitrogen and potash were the most widely used on oat acres planted in Wisconsin. Farmers applied these fertilizers to 46 percent of planted acres at an average rate of 91 pounds per acre per year for potash, and 42 pounds per acre for nitrogen. Macronutrient phosphate was applied at an average rate of 38 pounds per acre per year. The secondary macronutrient, sulfur, was applied to 17 percent of acres planted to oats.

Pesticide Use: Herbicide active ingredients were applied to 43 percent of the oat acres planted. 2, 4-D, 2-EHE was the most widely used pesticide on oat acres and was also the active ingredient with the greatest total amount applied. Fungicides were applied to 15 percent of oat acres planted in Wisconsin.

Fertilizer Use on Oats – Wisconsin and Program States: 2023

Active ingredient	Wisconsin			Program states ¹		
	Planted acres treated	Yearly rate	Total applied	Planted acres treated	Yearly rate	Total applied
	(percent)	(lbs per acre)	(1,000 lbs)	(percent)	(lbs per acre)	(1,000 lbs)
Nitrogen	46	42	2,600	51	51	49,800
Phosphate	22	38	1,100	35	37	24,700
Potash	46	91	5,700	25	49	23,800
Sulfur	17	20	500	12	13	2,900

¹ The 17 program states surveyed about oats in the 2023 ARMS were California, Georgia, Idaho, Illinois, Iowa, Kansas, Michigan, Minnesota, Montana, Nebraska, New York, North Dakota, Ohio, Pennsylvania, South Dakota, Texas, and Wisconsin.

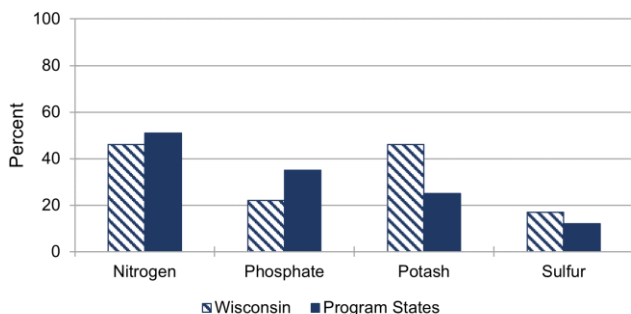
Pesticide Use on Oats – Wisconsin and Program States: 2023

Active ingredient	Wisconsin			Program states ¹		
	Planted acres treated	Yearly rate	Total applied	Planted acres treated	Yearly rate	Total applied
	(percent)	(lbs per acre)	(1,000 lbs)	(percent)	(lbs per acre)	(1,000 lbs)
Fungicide						
Azoxystrobin	11	0.093	1	1	0.086	2
Total ²	15		3	6		14
Herbicide						
2, 4-D, 2-EHE	15	0.725	15	7	0.532	70
2, 4-D, dimeth. salt	9	0.543	6	9	0.655	118
Bromoxynil octanoate	1	0.198	(Z)	3	0.251	15
Glyphosate iso. Salt	6	0.979	8	11	0.749	152
Kantor	5	0.004	(Z)	1	0.002	(Z)
MCPA, 2 ethylhexyl	6	0.296	2	4	0.346	24
MCPA, dimethyl. salt	9	0.337	4	4	0.382	31
Total ²	43		42	39		626
Insecticide						
Total ²	(D)		(D)	3		17

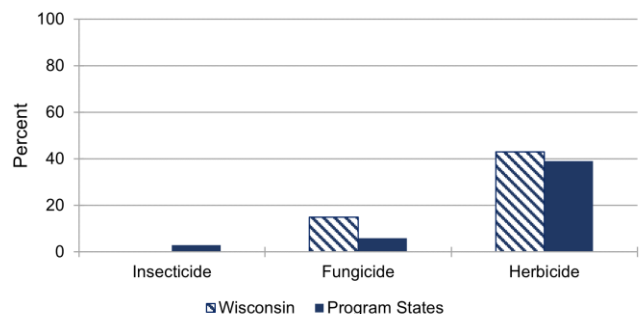
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² Total Fungicide, Herbicide, and Insecticide include pesticides not listed in the table.

Fertilizers, Percent of Oat Planted Acres Treated
Wisconsin and Program States: 2023



Pesticides, Percent of Oat Planted Acres Treated
Wisconsin and Program States: 2023



Crop rotation was the top pest management practice on Oats acreage in Wisconsin.

Pest Management Practices on Oats – Wisconsin and Program States: 2023

	Wisconsin		Program states ¹	
	% of area planted	% of operations	% of area planted	% of operations
Avoidance				
Crop or plant variety chosen for specific pest resistance	15	9	16	17
Planting locations planned to avoid cross infestation of pests	9	6	9	10
Planting or harvesting dates adjusted	11	8	11	11
Rotated crops during past 3 years	88	85	67	71
Row spacing, plant density, or row directions adjusted	10	6	7	7
Monitoring				
Diagnostic laboratory services used for pest detection via soil or plant tissue analysis	0	0	1	1
Field mapping data used to assist decisions	4	3	5	4
Scouted -				
established process used	12	4	5	4
for pests due to a pest advisory warning	7	1	2	1
for pests due to a pest development model	3	3	4	3
for pests or beneficial organisms-not scouted	22	29	25	32
for pests or beneficial organism by conducting general observations while performing routine tasks	35	48	35	39
for pests or beneficial organism by deliberately going to the crop acres or growing areas	42	23	40	29
Weather data used to assist decisions	30	21	27	22
Written or electronic records kept to track pest activity	23	11	15	12
Prevention				
Beneficial insect or vertebrate habitat maintained	5	4	8	7
Crop residues removed or burned down	9	15	6	8
Equipment and implements cleaned after field work to reduce spread of pests	23	22	41	36
Field edges, ditches, or fence lines chopped, sprayed, mowed, plowed, or burned	22	20	29	27
Field left fallow previous year to manage insects	0	0	2	2
Flamer used to kill weeds	(Z)	(Z)	(Z)	(Z)
No-till or minimum-till used	46	47	48	42
Plowed down crop residue using conventional tillage	31	30	24	27
Seed treated for insect or disease control after purchase	2	1	3	4
Water management practices used	2	1	2	1
Suppression				
Beneficial organisms applied or released	0	0	(Z)	(Z)
Biological pesticides applied	0	0	(Z)	(Z)
Buffer strips or border rows maintained to isolate organic from non-organic crops	9	5	8	6
Floral lures, attractants, repellants, pheromone traps, or biological pest controls used	2	(Z)	1	(Z)
Ground covers, mulches, or other physical barriers maintained	40	31	37	31
Pesticides with different mechanisms of action to keep pest from becoming resistant to pesticides	2	4	8	7
Scouting data compared to published information to assist decisions	18	4	7	5
Trap crop grown to manage insects	0	0	1	1

(Z) Less than half of the unit shown.

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More information and data for the USDA NASS Chemical Use Program can be found at:
https://www.nass.usda.gov/Surveys/Guide_to_NASS_Surveys/Chemical_Use/.