



# Wisconsin Ag News – Chemical Use

## Barley: Fall 2023



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Cooperating with Wisconsin Department of Agriculture, Trade and Consumer Protection

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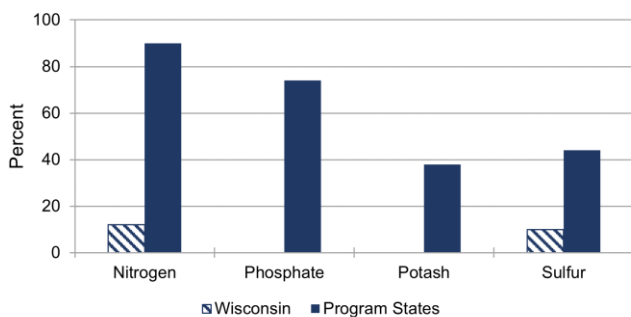
The National Agricultural Statistics Service (NASS) Agricultural Chemical Use Program is the U.S. Department of Agriculture's official source of statistics about on-farm and post-harvest fertilizer and pesticide use and pest management practices.

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 barley production. The data was collected as part of the Agricultural Resource Management Survey (ARMS) and the results are presented here.

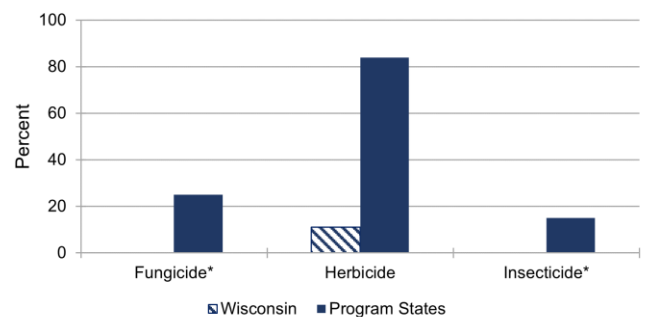
**Fertilizer Use:** Of the three primary macronutrients, nitrogen was the most widely used on barley acres planted in Wisconsin. Farmers applied nitrogen to 12 percent of planted acres at an average rate of 46 pounds per acre per year. The secondary macronutrient, sulfur, was applied to 10 percent of acres planted to barley.

**Pesticide Use:** Herbicide active ingredients were applied to 11 percent of the barley acres planted.

**Fertilizers, Barley Planted Acres Treated  
Wisconsin and Program States - 2023**



**Pesticides, Barley Planted Acres Treated  
Wisconsin and Program States: 2023**



### Pesticide Use on Barley - Wisconsin and Program States: 2023

Active ingredient	Wisconsin			Program states <sup>1</sup>		
	Planted acres treated <sup>2</sup>	Yearly rate	Total applied	Planted acres treated <sup>2</sup>	Yearly rate	Total applied
	(percent)	(lbs per acre)	(1,000 lbs)	(percent)	(lbs per acre)	(1,000 lbs)
<b>Fungicide</b>						
Total <sup>3</sup> .....	(D)		(D)	25		173
<b>Herbicide</b>						
Total <sup>3</sup> .....	11		(Z)	84		1,880
<b>Insecticide</b>						
Total <sup>3</sup> .....	(D)		(D)	15		15

(Z) Less than half of the unit shown.

<sup>1</sup> The 14 program states surveyed about barley in the 2023 ARMS were California, Colorado, Idaho, Minnesota, Montana, North Carolina, North Dakota, Oregon, Pennsylvania, South Dakota, Virginia, Washington, Wisconsin, and Wyoming.

<sup>2</sup> Acres with multiple nutrients are counted in each category.

<sup>3</sup> Total Fungicide, Herbicide, and Insecticide include pesticides not listed in the table.

### Fertilizer Use on Barley – Wisconsin and Program States: 2023

Active ingredient	Wisconsin			Program states <sup>1</sup>		
	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 .....	12	46	100	90	68	182,400
Phosphate .....	(D)	(D)	(D)	74	36	78,600
Potash .....	(D)	(D)	(D)	38	26	29,000
Sulfur .....	10	25	(Z)	44	16	20,500

(D) Withheld to avoid disclosing data for individual operations.

(Z) Less than half of the unit shown.

<sup>1</sup> The 14 program states surveyed about barley in the 2023 ARMS were California, Colorado, Idaho, Minnesota, Montana, North Carolina, North Dakota, Oregon, Pennsylvania, South Dakota, Virginia, Washington, Wisconsin, and Wyoming.

**Pest Management Practices on Corn – Wisconsin and Program States: 2023**

	Wisconsin		Program states <sup>1</sup>	
	% of area planted	% of operations	% of area planted	% of operations
<b>Avoidance</b>				
Crop or plant variety chosen for specific pest resistance .....	4	3	26	23
Planting locations planned to avoid cross infestation of pests .....	11	15	28	26
Planting or harvesting dates adjusted .....	28	13	23	22
Rotated crops during past 3 years .....	99	95	84	84
Row spacing, plant density, or row directions adjusted .....	22	6	31	23
<b>Monitoring</b>				
Diagnostic laboratory services used for pest detection via soil or plant tissue analysis .....	21	5	11	7
Field mapping data used to assist decisions .....	21	6	21	17
Scouted -				
established process used .....	23	7	13	10
for pests due to a pest advisory warning .....	3	2	8	6
for pests due to a pest development model .....	4	3	6	7
for pests or beneficial organisms-not scouted .....	29	24	6	12
for pests or beneficial organism by conducting general observations while performing routine tasks .....	26	51	23	31
for pests or beneficial organism by deliberately going to the crop acres or growing areas .....	45	24	71	57
Scouted for diseases .....	18	17	79	67
Scouted for insects and mites .....	24	16	79	68
Scouted for weeds .....	55	52	92	84
Weather data used to assist decisions .....	5	5	62	50
Written or electronic records kept to track pest activity .....	9	8	41	34
<b>Prevention</b>				
Beneficial insect or vertebrate habitat maintained .....	9	7	17	17
Crop residues removed or burned down .....	26	19	11	13
Equipment and implements cleaned after field work to reduce spread of pests .....	44	33	65	55
Field edges, ditches, or fence lines chopped, sprayed, mowed, plowed, or burned .....	28	30	41	43
Field left fallow previous year to manage insects .....	0	0	10	7
Flamer used to kill weeds .....	0	0	2	2
No-till or minimum-till used .....	38	44	59	54
Plowed down crop residue using conventional tillage .....	50	47	26	32
Seed treated for insect or disease control after purchase .....	1	1	53	39
Water management practices used .....	3	4	16	19
<b>Suppression</b>				
Beneficial organisms applied or released .....	0	0	3	2
Biological pesticides applied .....	0	0	5	3
Buffer strips or border rows maintained to isolate				
organic from non-organic crops .....	18	19	10	12
Floral lures, attractants, repellants, pheromone traps, or biological pest controls used .....				
Ground covers, mulches, or other physical barriers maintained .....	36	46	54	54
Pesticides with different mechanisms of action to keep pest from becoming resistant to pesticides .....				
Scouting data compared to published information to assist decisions .....	3	3	35	26
Trap crop grown to manage insects .....	0	0	0	0
Trap crop grown to manage insects .....	0	0	1	1

<sup>1</sup> The 14 program states surveyed about barley in the 2023 ARMS were California, Colorado, Idaho, Minnesota, Montana, North Carolina, North Dakota, Oregon, Pennsylvania, South Dakota, Virginia, Washington, Wisconsin, and Wyoming.

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/](https://www.nass.usda.gov/Surveys/Guide_to_NASS_Surveys/Chemical_Use/).