United States Department of Agriculture
National Agricultural Statistics Service

Wisconsin Ag News – Chemical Use

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Beans, Snap, Chemical Use – Wisconsin: 2022

[Includes acreage for fresh market and processing.]

Active ingredient	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	(percent)	(number)	(pounds per acre)	(pounds per acre)	(1,000 pounds)
Fertilizer					
Nitrogen	94	2.9	34	99	5,179
Phosphate	79	1.3	30	41	1,792
Potash	88	1.7	71	123	5,987
Sulfur	65	2.2	14	32	1,145
Fungicide					
Boscalid	4	1.0	0.444	0.444	0.9
Copper chloride hyd.	3	1.2	0.202	0.247	0.4
Copper hydroxide	3	1.2	0.294	0.346	0.7
Thiophanate-methyl	15	1.1	1.242	1.363	11.5
Total [1]	19				13.4
Herbicides					
Bentazon	43	1.1	0.585	0.642	15.3
Clethodim	10	1.0	0.170	0.170	1.0
Cyflumetofen	5	1.0	0.189	0.195	0.5
EPTC	19	1.1	2.953	3.215	34.8
Halosulfuron-methyl	28	1.0	0.036	0.036	0.6
Imazamox	7	1.1	0.028	0.031	0.1
Imazamox; sodium salt	17	1.1	0.024	0.027	0.3
Imazethapyr, ammon	14	1.0	0.023	0.024	0.2
Metolachlor	27	1.0	1.224	1.224	18.3
Pendimethalin	5	1.0	0.654	0.654	2.0
S-Metolachlor	20	1.1	1.090	1.144	12.8
Trifluralin	28	1.1	0.491	0.521	8.2
Total [1]	86				95.8
Insecticides					
Bifenthrin	11	1.1	0.056	0.060	0.4
Lambda-cyhalothrin	19	1.3	0.019	0.025	0.3
Zeta-cypermethrin	12	1.1	0.025	0.026	0.2
Total [1]	30				0.9

[1] Total Fungicide, Herbicide, and Insecticide includes pesticides that are not listed in this table.

Cabbage, Chemical Use – Wisconsin: 2022

[Includes acreage for fresh market and processing.]

Active ingredient	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	(percent)	(number)	(pounds per acre)	(pounds per acre)	(1,000 pounds)
Fertilizer					
Nitrogen	90	3.4	13	45	161
Phosphate	90	3.1	7	23	82
Potash	90	3.1	17	54	196
Fungicide					
Total [1]	3				0.5
Herbicides					
Total [1]	59				3.5
Insecticides					
Total [1]	80				0.6

[1] Total Fungicide, Herbicide, and Insecticide includes pesticides that are not listed in this table.

The complete report can be found on the USDA NASS website at www.nass.usda.gov/Publications.

Carrots, Chemical Use – Wisconsin: 2022

[Includes acreage for fresh market and processing.]

Active ingredient	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	(percent)	(number)	(pounds per acre)	(pounds per acre)	(1,000 pounds)
Fertilizer					
Nitrogen	57	2.6	34	89	173
Phosphate	59	1.3	29	38	77
Potash	57	1.7	63	106	204
Sulfur	22	1.0	48	48	36
Fungicide					
Total [1]	3				0.3
Herbicides					
Clethodim	6	1.2	0.125	0.147	(Z)
Pendimethalin	6	1.0	0.950	0.950	0.2
Total [1]	24				1.3
Insecticides					
Total [1]	3				(D)

(D) Withheld to avoid disclosing data for individual operations.
(Z)Less than half of the unit shown.
[1] Total Fungicide, Herbicide, and Insecticide includes pesticides that are not listed in this table.

Peas, Green, Chemical Use – Wisconsin: 2022

[Includes acreage for fresh market and processing.]

Active ingredient	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	(percent)	(number)	(pounds per acre)	(pounds per acre)	(1,000 pounds)
Fertilizer					
Nitrogen	82	1.9	31	58	1,262
Phosphate	53	1.1	35	37	520
Potash	71	1.1	80	87	1,674
Sulfur	30	1.3	15	20	159
Fungicides					
Azoxystrobin	3	1.0	0.163	0.163	0.1
Total [1]	4				0.2
Herbicides					
Bentazon	24	1.0	0.327	0.336	2.1
Glyphosate	7	1.0	0.826	0.826	1.5
Imazamox	20	1.0	0.024	0.024	0.1
Imazamox sodium salt	5	1.0	0.023	0.023	(Z)
Imazethapyr	10	1.3	0.046	0.058	0.2
Imazethapyr, ammon	30	1.0	0.048	0.048	0.4
S-Metolachlor	11	1.0	1.120	1.120	3.2
Total [1]	97				20.8
Insecticides					
Bifenthrin	23	1.0	0.063	0.063	0.4
Total [1]	23				0.4

(Z) Less than half of the unit shown.
[1] Total Fungicide, Herbicide, and Insecticide includes pesticides that are not listed in this table.

Sweet Corn, Chemical Use – Wisconsin: 2022

[Includes acreage for fresh market and processing.]

Active ingredient	Area applied	Applications	Rate per application	Rate per crop year	Total applied
	(percent)	(number)	(pounds per acre)	(pounds per acre)	(1,000 pounds)
Fertilizer					
Nitrogen	97	2.2	50	110	6,501
Phosphate	90	1.3	36	46	2,552
Potash	89	1.4	60	83	4,520
Sulfur	55	1.1	15	17	572
Fungicide					
Azoxystrobin	4	1.4	0.129	0.176	0.4
Propiconazole	4	1.4	0.112	0.152	0.4
Total [1]	6				1.5
Herbicides					
Atrazine	49	1.1	0.683	0.733	22.0
Bicyclopyrone	26	1.0	0.041	0.042	0.7
Dimethenamid-P	22	1.0	0.676	0.676	9.0
Glyphosate	3	1.1	0.985	1.046	1.9
Glyphosate iso. salt	1	1.3	0.634	0.803	0.5
Glyphosate pot. salt	4	1.0	1.140	1.140	2.8
Metolachlor	6	1.0	0.983	0.983	3.7
Nicosulfuron	5	1.0	0.031	0.031	0.1
S-Metolachlor	47	1.1	1.284	1.349	39.0
Tembotrione	19	1.0	0.082	0.082	0.9
Topramezone	24	1.0	0.013	0.013	0.2
Total [1]	83				85.9
Insecticides					
Bifenthrin	9	2.1	0.042	0.086	0.5
Lambda-cyhalothrin	40	1.9	0.028	0.052	1.3
Total [1]	69				12.1

[1] Total Fungicide, Herbicide, and Insecticide includes pesticides that are not listed in this table.

Pest Management Practices on Vegetables – Wisconsin and Program States: 2022

	Wisconsin		Program states	
	% of area planted	% of operations	% of area planted	% of operations
Avoidance				
Crop or plant variety chosen for specific pest resistance	57	65	48	61
Planting locations planned to avoid cross infestation of pests	45	60	42	66
Planting or harvesting dates adjusted	15	24	38	54
Rotated crops during past 3 years	68	75	82	84
Row spacing, plant density, or row directions adjusted	32	51	36	57
Monitoring				
Diagnostic laboratory services used for pest detection via soil or plant tissue analysis	17	15	41	15
Field mapping data used to assist decisions	34	30	30	13
Scouted -				
established process used	31	7	46	15
for pests due to a pest advisory warning	23	15	23	11
for pests due to a pest development model	26	15	24	9
for pests or beneficial organisms - not scouted	(Z)	(Z)	(Z)	2
for pests or beneficial organism by conducting general observations while performing routine tasks	33	38	28	26
for pests or beneficial organism by deliberately going to the crop acres or growing areas	67	62	72	71
Scouted for diseases	96	99	98	95
by employee	1	(Z)	8	2
by farm supply company or chemical dealer	14	3	13	2
by independent crop consultant or commercial scout	3	(Z)	24	3
by operator, partner, or family member	51	90	44	89
by other	0	0	(Z)	(Z)
by processor	32	7	11	4
Scouted for insects and mites	96	99	97	93
by employee	1	(Z)	8	2
by farm supply company or chemical dealer	14	3	13	2
by independent crop consultant or commercial scout	3	(Z)	25	3
by operator, partner, or family member	51	90	43	88
by other	0	0	1	(Z)
by processor	32	7	11	4
Scouted for weeds	100	98	92	95
by employee	1	(Z)	11	2
by farm supply company or chemical dealer	14	3	7	2
by independent crop consultant or commercial scout	3	(Z)	20	2
by operator, partner, or family member	54	90	53	91
by other	0	0	(Z)	(Z)
by processor	29	7	9	3
Weather data used to assist decisions	90	74	80	59
Written or electronic records kept to track pest activity	36	21	56	20
Prevention				
Crop acres cultivated for weed control	49	63	69	75
Equipment and implements cleaned after field work to reduce spread of pests	41	46	77	41
Field edges, ditches, or fence lines chopped, sprayed, mowed, plowed, or burned	46	59	75	74
No-till or minimum-till used	25	24	39	25
Plowed down crop residue using conventional tillage	47	52	70	79
Water management practices used	53	47	56	27
Suppression				
Beneficial organisms applied or released	2	2	18	10
Biological pesticides applied	17	26	16	8
Floral lures, atractants, repellants, pheromone traps, or biological pest controls used	13	15	24	12
Ground covers, mulches, or other physical barriers maintained	50	63	51	50
Pesticides with different mechanisms of action to keep pest from becoming resistant to pesticides	50	43	57	18
Scouting data compared to published information to assist decisions	50	42	46	50
Trap crop grown to manage insects	(Z)	2	17	14

(Z) Less than half of the unit shown.
[1] The 15 program states in the Vegetable Chemical Use Survey were Florida, Georgia, Illinois, Indiana, Michigan, Minnesota, New Jersey, New York, North Carolina, Ohio, Oregon, Pennsylvania, Texas, Washington, and Wisconsin.

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/.

The complete report can be found on the USDA NASS website at www.nass.usda.gov/Publications.