



Minnesota Ag News – Chemical Use



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Peas, Green, Chemical Use – Minnesota: 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	65	1.4	31	43	1,401
Phosphate	43	1.0	53	53	1,117
Potash	45	1.0	77	77	1,721
Sulfur	21	1.0	10	10	110
Herbicides					
Imazethapyr	36	1.0	0.046	0.046	0.8
Imazethapyr, ammon	9	1.0	0.047	0.047	0.2
MCPB, sodium salt	19	1.0	0.413	0.413	3.9
Pendimethalin	46	1.0	0.779	0.779	17.7
Saffufenacil	45	1.0	0.018	0.018	0.4
S-Metolachlor	7	1.0	1.552	1.552	5.1
Total ¹	90				32.7
Insecticides					
Total ¹	9				0.3

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

Sweet Corn, Chemical Use – Minnesota: 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	1.5	80	120	10,928
Phosphate	74	1.1	53	57	4,085
Potash	69	1.1	72	78	5,265
Sulfur	42	1.1	15	16	663
Fungicide					
Azoxystrobin	62	1.0	0.102	0.107	6.4
Propiconazole	62	1.0	0.088	0.092	5.6
Total ¹	62				12.0
Herbicides					
2,4-D Dimeth. salt	3	1.0	0.628	0.628	2.1
Acetochlor	28	1.0	1.699	1.751	46.9
Atrazine	68	1.0	0.547	0.569	37.5
Bicyclopyrone	8	1.0	0.028	0.028	0.2
Carfentrazone-ethyl	5	1.0	0.014	0.014	0.1
Dimethenamid-P	28	1.0	0.671	0.672	18.5
Glyphosate iso. salt	3	1.0	0.469	0.469	1.5
Mesotrione	11	1.0	0.110	0.110	1.1
Nicosulfuron	3	1.0	0.030	0.030	0.1
S-Metolachlor	21	1.0	1.547	1.547	31.9
Tembotrione	75	1.0	0.082	0.083	6.1
Topramezone	2	1.0	0.020	0.020	(Z)
Total ¹	97				151.1
Insecticides					
Bifenthrin	66	2.1	0.048	0.104	6.6
Lambda-cyhalothrin	41	2.4	0.026	0.062	2.5
Total ¹	85				9.2

(Z) Less than half of the unit shown.

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

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

	Minnesota		Program states	
	% of area planted	% of operations	% of area planted	% of operations
Avoidance				
Crop or plant variety chosen for specific pest resistance	9	10	48	61
Planting locations planned to avoid cross infestation of pests	9	9	42	66
Planting or harvesting dates adjusted	4	4	38	54
Rotated crops during past 3 years	87	87	82	84
Row spacing, plant density, or row directions adjusted	3	4	36	57
Monitoring				
Diagnostic laboratory services used for pest detection via soil or plant tissue analysis	0	0	41	15
Field mapping data used to assist decisions	16	15	30	13
Scouted -				
established process used	55	55	46	15
for pests due to a pest advisory warning	24	17	23	11
for pests due to a pest development model	31	29	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	7	4	28	26
for pests or beneficial organism by deliberately going to the crop acres or growing areas	93	96	72	71
Scouted for diseases	98	98	98	95
by employee	(Z)	(Z)	8	2
by farm supply company or chemical dealer	(Z)	(Z)	13	2
by independent crop consultant or commercial scout	3	2	24	3
by operator, partner, or family member	5	5	44	89
by other	0	0	(Z)	(Z)
by processor	91	93	11	4
Scouted for insects and mites	99	99	97	93
by employee	0	0	8	2
by farm supply company or chemical dealer	(Z)	(Z)	13	2
by independent crop consultant or commercial scout	3	2	25	3
by operator, partner, or family member	5	4	43	88
by other	0	0	1	(Z)
by processor	92	94	11	4
Scouted for weeds	100	99	92	95
by employee	0	0	11	2
by farm supply company or chemical dealer	9	7	7	2
by independent crop consultant or commercial scout	2	2	20	2
by operator, partner, or family member	25	21	53	91
by other	0	0	(Z)	(Z)
by processor	63	70	9	3
Weather data used to assist decisions	90	92	80	59
Written or electronic records kept to track pest activity	40	40	56	20
Prevention				
Crop acres cultivated for weed control	10	9	69	75
Equipment and implements cleaned after field work to reduce spread of pests	70	69	77	41
Field edges, ditches, or fence lines chopped, sprayed, mowed, plowed, or burned	56	56	75	74
No-till or minimum-till used	10	11	39	25
Plowed down crop residue using conventional tillage	22	25	70	79
Water management practices used	12	14	56	27
Suppression				
Beneficial organisms applied or released	0	0	18	10
Biological pesticides applied	2	1	16	8
Floral lures, attractants, repellants, pheromone traps, or biological pest controls used	1	(Z)	24	12
Ground covers, mulches, or other physical barriers maintained	13	14	51	50
Pesticides with different mechanisms of action to keep pest from becoming resistant to pesticides	44	39	57	18
Scouting data compared to published information to assist decisions	34	34	46	50
Trap crop grown to manage insects	1	(Z)	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/.