

SURVEY OF INSECTICIDE USE IN SUGARBEET IN EASTERN NORTH DAKOTA AND MINNESOTA - 2008

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Sugarbeet growers reported 2008 insecticide use on sugarbeet acreage in the annual survey of sugarbeet growers (Table 1). Counter 15G, Counter 20CR, Lorsban 15G, and Mustang Max were primarily used as planting-time treatments, whereas Lorsban 4E and Asana were mostly applied postemergence. Counter 15G and Lorsban 15G were used on 43% and 7% of the acres, respectively, in 2008 while Counter 15G was used on 44% and Lorsban 15G on 4% of the acreage in 2007. Lorsban 4E was applied to 11% of sugarbeet acres in 2001, 2% in 2002, 2003, and 2004, 4% in 2005, 5% in 2006, 4% in 2007, and 2% during 2008. Mustang was used on 13% of the acreage in 2003 and 2004, 21% in 2005, 28% in 2006, 23% in 2007, and 31% in 2008. Averaged over all insecticides and counties, 92% of the respondents' acreage was treated in 2008 compared to 80% in 2007, 83% in 2006, 79% in 2005, 75% in 2004 and 2003, 70% in 2002, 83% in 2001, and 71% in 2000.

Grower evaluations of insect control, averaged over counties, are presented in Table 2. Satisfaction with root maggot control generally was good with 94% evaluating control as good or excellent. Other insect control was evaluated as good or excellent by 95% of the respondents.

Cutworms, wireworms, springtails, and white grubs were identified as insect problems other than sugarbeet root maggot for areas treated with insecticides in 2008 (Table 3). Cutworms were the most common non-maggot pest problem.

Table 1. Insecticide use by survey respondents in 2008.

County	Respondent acres planted	Number of applications	Not treated	% of acres planted								Total acres treated
				Counter 15G	Counter 20CR	Lorsban 15G	Lorsban 4E	Temik 15G	Asana	Mustang	Other ⁷	
Cass	4,952	11	11	72	3	-	3	-	-	14	-	92
Chippewa ¹	8,304	5	85	-	-	-	-	-	15	-	-	15
Clay ²	12,852	22	7	52	16	24	<1	-	-	14	-	107
Grand Forks	5,106	12	-	53	16	3	-	-	-	27	-	100
Kittson	5,910	10	5	7	-	-	-	-	-	171	-	178
Marshall	8,877	11	2	44	-	24	-	-	2	30	-	100
Norman ³	6,294	13	2	19	6	-	-	-	-	73	-	98
Pembina	5,012	16	-	202	3	11	12	-	-	-	25	253
Polk	22,308	39	1	54	11	-	-	-	-	35	-	100
Renville ⁴	5,467	7	77	-	-	1	1	-	21	-	-	23
Richland	6,619	7	66	10	21	1	-	-	2	-	-	34
Trails	4,279	9	27	35	-	-	-	-	-	46	-	81
Traverse ⁵	2,692	0	100	-	-	-	-	-	-	-	-	0
Walsh	5,958	23	-	61	6	26	30	-	-	-	-	123
Wilkin ⁶	5,929	9	24	14	-	6	-	-	-	55	-	75
No Response	1,050	1	55	64	-	-	-	-	-	-	-	64
Total	111,609	195	17	43	5	7	2	0	2	31	1	92

¹Includes Swift and Kandiyohi Counties

²Includes Becker County

³Includes Mahnomen County

⁴Includes Redwood, Faribault, Yellow Medicine, Lac Qui Parle, Sibley, and Stearns Counties

⁵Includes Grant, Stevens, and Big Stone Counties

⁶Includes Ottertail County

⁷Includes Thimnet

Table 2. Evaluation of root maggot and other insect control by survey respondents in 2008

Insecticide	Root Maggot Control					Other Insect Control				
	No. of Respondents	Excellent	Good	Fair	Poor	No. of Respondents	Excellent	Good	Fair	Poor
	-----% of responses-----									
Counter 15G	94	71	28	1	-	73	62	32	5	1
Counter 20CR	11	73	27	-	-	11	64	36	-	-
Lorsban 15G	11	55	36	9	-	9	56	33	11	-
Lorsban 4E	9	67	22	11	-	8	63	37	-	-
Temik 15G	0	-	-	-	-	0	-	-	-	-
Mustang	39	44	41	13	3	44	48	50	2	-
Asana	2	50	-	50	-	9	67	22	11	-
Other ¹	2	100	-	-	-	0	-	-	-	-
Total	168	64	30	5	1	154	58	37	4	1

¹Includes Thimet**Table 3. Insects other than root maggot that were treated for control by survey respondents in 2008.**

County	Number of Respondents	Cutworm	Grasshopper	Wireworm	Springtail	Other ⁷
Cass	0	-	-	-	-	-
Chippewa ¹	4	100	-	-	-	-
Clay ²	5	60	-	20	20	-
Grand Forks	0	-	-	-	-	-
Kittson	1	-	-	100	-	-
Marshall	2	100	-	-	-	-
Norman ³	2	-	-	-	-	100
Pembina	0	-	-	-	-	-
Polk	4	50	-	-	50	-
Renville ⁴	3	100	-	-	-	-
Richland	4	25	-	25	-	50
Traill	1	-	-	100	-	-
Traverse ⁵	0	-	-	-	-	-
Walsh	0	-	-	-	-	-
Wilkin ⁶	0	-	-	-	-	-
Total	26	58	0	15	12	15

¹Includes Swift and Kandiyohi Counties²Includes Becker County³Includes Mahnomon County⁴Includes Redwood, Faribault, Yellow Medicine, Lac Qui Parle, Sibley, and Stearns Counties⁵Includes Grant, Stevens, and Big Stone Counties⁶Includes Ottertail County⁷Includes white grub(4)