

**SURVEY OF INSECTICIDE USE IN SUGARBEET IN EASTERN
NORTH DAKOTA AND MINNESOTA - 2006**

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Other portions of the survey are published in the
Weed Control and Plant Pathology sections

Sugarbeet growers reported sugarbeet acreage treated with insecticide on 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 primarily applied postemergence. Counter 15G and Lorsban 15G were used on 36% and 11% of the acres, respectively, in 2006 while Counter 15G was used on 43% and Lorsban 15G on 7% of the acreage in 2005. Lorsban 4E usage was 11% in 2001, 2% in 2002, 2003 and 2004, 4% in 2005, and 5% in 2006. Mustang was used on 13% of the acreage in 2003 and 2004, 21% in 2005, and 28% in 2006. Averaged over all insecticides and counties, 83% of the acreage was treated in 2006 compared to 79% in 2005, 75% in 2004 and 2003, 70% in 2002, 83% in 2001 and 71% in 2000.

The grower evaluations of insect control averaged over counties are presented in Table 2. The 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 89% of the respondents.

Cutworm, wireworm, springtail, Lygus, white grub, and defoliating weevil were identified as insect problems other than sugarbeet root maggot treated with insecticide in 2006 (Table 3). Cutworm and wireworm were the most common non-maggot pests.

Table 1. Insecticide use by survey respondents in 2006.

County	Number of appl.	Acre s not trea ted	Count er 15G	Count er 20CR	Lorsb an 15G	Lorsba n 4E	Asana	Mustan g	Total acres treat ed
	-----% of acres-----								
Cass	19	7	49	0	1	6	0	51	107
Chippewa	3	93	0	0	0	0	7	0	7
Clay ²	28	0	35	0	30	10	0	34	109
Grand Forks	15	0	78	3	7	<1	0	11	100

Kittson	9	6	11	0	6	0	0	77	94
Marshall	21	1	43	2	11	0	0	44	99
Norman ³	22	0	35	0	0	0	0	68	103
Pembina	17	0	78	9	9	38	0	0	134
Polk	53	0	52	6	9	3	0	34	103
Renville	10	71	0	0	8	2	11	1	22
Richland	13	59	14	0	13	0	2	11	41
Traill	10	16	44	0	0	0	0	42	86
Traverse	2	77	0	0	0	1	4	0	5
Walsh	33	0	72	9	21	31	0	0	133
Wilkin ⁶	16	18	24	1	11	0	0	46	83
Total	271	21	36	2	11	5	2	28	83

¹Includes Swift and Kandiyohi Counties.

²Includes Becker County.

³Includes Mahnomon County.

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

⁵Includes Grant, Stevens, and Big Stone Counties.

⁶Includes Ottertail County.

Table 2. Insecticide usage and evaluation of root maggot control by survey respondents in 2006.

Insecticide	Root Maggot Control					Other Insect Control				
	No. of appl.	Excel	Good	Fair	Poor	No. of appl.	Excel	Good	Fair	Poor
	-----% of responses-----					-----% of responses-----				
Counter 15G	110	67	29	3	1	73	45	45	6	4
Counter 20CR	7	71	29	0	0	4	75	25	0	0
Lorsban 15G	27	63	37	0	0	17	47	47	0	6
Lorsban 4E	19	42	47	5	5	16	56	25	19	0
Mustang Max	53	64	21	11	4	66	50	36	11	3
Asana	3	67	33	0	0	10	70	30	0	0
Total	219	64	30	5	2	186	50	39	8	3

Table 3. Insects other than root maggot that were treated for control in 2006.

County	Number of Applications	Cut-worm	Grass-hopper	Wireworm	Spring-tail	Other ⁷
----- % of responses-----						
Cass	6	83	0	17	0	0
Chippewa ¹	1	100	0	0	0	0
Clay ²	8	25	0	38	25	13
Grand Forks	1	0	100	0	0	0
Kittson	3	33	0	67	0	0
Marshall	0	0	0	0	0	0
Norman ³	7	57	0	29	0	14
Pembina	1	100	0	0	0	0
Polk	12	25	0	25	42	8
Renville ⁴	5	100	0	0	0	0
Richland	6	16	16	17	17	33
Traill	2	50	0	0	50	0
Traverse ⁵	2	50	0	0	0	50
Walsh	1	0	0	100	0	0
Wilkin ⁶	0	0	0	0	0	0
Total	55	45	4	24	16	12

1Includes Swift and Kandiyohi Counties.

2Includes Becker County.

3Includes Mahnomen County.

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

5Includes Grant, Stevens, and Big Stone Counties.

6Includes Ottertail County.

7Includes white grub (3), Lygus (2), and defoliating weevil(1).