

SURVEY OF INSECTICIDE USE IN SUGARBEET IN WESTERN NORTH DAKOTA AND EASTERN MONTANA IN 2014

Aaron L. Carlson¹, Mark A. Boetel², Tom J. Peters³, and Mohamed F.R. Khan³

¹Sugarbeet Research Specialist and ³Extension Sugarbeet Specialists
North Dakota State University & University of Minnesota, Fargo, ND

and

²Professor, Dept. of Entomology, North Dakota State University

Herbicide and fungicide use portions of this survey are presented in the Weed Control and Plant Pathology sections.

This survey of sugarbeet growers was conducted to assess insecticide usage and to determine growers' opinions of insecticide performance at controlling key insect pests of sugarbeet in western North Dakota and eastern Montana. Results indicate that Poncho Beta insecticidal seed treatment was used on 85% of planted acres in 2014 (Table 1). Mustang was applied to 38% of reported acres and Asana to 6% of reported acres. Overall, insecticides were applied to 138% of the reported 7,556 acres.

Table 1. A summary of insecticides applied by respondents in sugarbeet from 1989 to 2014.

Year	Acres Planted	Counter 15G	Counter 20CR	Lorsban 4E	Lorsban 15G	Mustang	Asana	Poncho Beta	Temik	Other ¹	Total
-----% of acres planted-----											
2014	7,556	-	-	3	-	38	6	85	-	6	138
2011	6,134	-	-	-	-	51	11	58	-	-	120
2009	3,441	-	-	-	-	30	2	86	-	-	118
2007	8,346	65	-	15	-	37	31	-	-	3	151
2005	7,733	59	1	-	-	52	2	-	-	-	114
2003	11,732	93	1	13	3	3	-	-	-	2	115
2001	22,125	61	13	<1	2	-	31	-	<1	3	111
1999	13,061	83	-	31	5	-	12	-	1	1	138
1997	11,059	84	-	11	5	-	-	-	6	3	113
1995	12,338	76	-	6	9	-	-	-	10	1	104
1993	9,242	85	-	8	-	-	-	-	5	2	100
1992	12,791	72	-	8	3	-	-	-	10	2	95
1991	15,784	80	-	-	-	-	-	-	10	-	90
1990	12,607	46	-	-	-	-	-	-	14	3	63
1989	15,857	55	-	-	-	-	-	-	20	10	85

¹Other includes 1989: Dyfonate, Malathion, and Furadan; 1990: Dyfonate and Furadan; 1992: Malathion and Furadan; 1993: Furadan; 1995: Furadan; 1997: Dyfonate and Thimet; 1999: unknown; 2001: Gaucho and Thimet; 2003: Gaucho; 2007: Poncho; 2014: NipsIt

Sugarbeet root maggot control was rated as excellent or good by 79% of the respondents in 2014 (Table 2), as compared to 78% in 2011, 69% in 2009, 79% in 2007, 90% in 2005, 81% in 2003, and 79% in 2001. Other insect control was rated as excellent or good by 78% of respondents in 2014. Twenty-three survey respondents reported 28 insecticide applications or 1.2 applications per respondent. Five growers reported using no granular, liquid, or seed treatment insecticide on 693 acres in 2014. Springtail, wireworm, and cutworm were the 'other insects' mentioned by respondents. Twelve respondents reported using talc at planting as a seed lubricant on 3,345 acres. Talc was the only seed lubricant indicated by respondents in 2014.

Table 2. Number of insecticide applications and insect control rating by survey respondents in 2014.

Insecticide	Insecticide applications reported	Number of responses	Root Maggot				Number of responses	Other Insects			
			Exc ¹	Good	Fair	Poor		Exc	Good	Fair	Poor
-----% of responses-----											
Poncho Beta	18	18	50	28	17	6	13	46	15	15	23
NipsIt	1	1	100	0	0	0	1	100	0	0	0
Mustang	7	0	0	0	0	0	7	43	57	0	0
Lorsban	1	0	0	0	0	0	1	0	100	0	0
Asana	1	0	0	0	0	0	1	0	100	0	0
Total	28	19	53	26	16	5	23	43	35	9	13

¹Exc = Excellent