

Section V Cereal Crop Pests

CORN (SWEET): *Zea mays* L. 'Jubilee'
 Corn Earworm: *Heliothis zea* (Boddie)

G. Fisher, J. Calkin, M. Morris
 Dept. of Entomology
 Oregon State University, Corvallis OR 97331

Sweetcorn, Corn Earworm Control, 1986: On 6/2/86 Jubilee sweetcorn was seeded into Chehalis silty clay loam soil at the Oregon State University Vegetable Farm, Corvallis, OR. A RCB design was used with four replications of each treatment including an untreated control. Plots were 3 rows (3 ft. centers) x 20 ft. Five foot wide alleyways and six untreated rows of corn separated adjacent plots. On 8/11 (at early silking) and 8/21 insecticides were applied by handgun in the equivalent of 240 gpa of water to all portions of corn stalks in the plots. On 9/24, plots were evaluated for control by insecting 25 ears from each outer and middle row of each plot for CEW larvae.

An abnormally large infestation was observed in Asana, rep IV. This is an anomaly relative to Asana I, II, and III. Also, it does not appear that this block in general was under greater pressure from CEW. We are unable to explain this.

Grouping of Ranked Means With FPLSD

Treatment and lb(ai)/acre	Total larvae/50 ears					Total	\bar{x}	
	I	II	III	IV				
1. Untreated Control	12	18	17	21	68	17	a	
2. Baythroid 1.9E 0.015	7	5	4	4	20	5	b	
3. Asana 1.9E 0.025	2	1	3	13	19	4.75	bc	
4. Baythroid 1.9E 0.03	2	4	4	2	12	3	bc	
5. Pydrin 2.4E 0.1	0	0	0	1	1	0.25	c	

Means with same letter are not significantly ($\alpha = .05$) different.