BECHINSKI, E.J., D. BOWERS and H. DAVIS. Division of Entomology, University of Idaho, Moscow, ID 83843; Amalgamated Sugar Co., P.O. Box 1766, Nyssa, OR 97913; Agricultural Research Service, USDA, Yakima, WA. 98902. Monitoring sugarbeet crown borer in Idaho and Washington. ABSTRACT.

The sugarbeet crown borer, *Hulstia undulatella* (Lepidoptera: Pyralidae) rarely had been seen in Idaho until the mid 1980's when infestations were detected along the Idaho - Oregon border. To delimit pest distribution and assess economic status, we monitored during 1992 a network of pheromone traps at 30 commercial sugarbeet fields in Canyon, Malheur, Payette and Washington counties. Crown borer moths were captured at every field surveyed. Three major flight periods gave rise to spring, summer and fall generations of larvae. Economic thresholds for spring larvae tentatively were set at 10 moths per trap per day for seven consecutive days before 8 May. We derived a degree-day model (base = 40 °F; 1 March beginning date) that forecasts these flight periods for spring moths: first capture = 823 DD, peak capture = 1440 DD, and last capture = 2518 DD. Pheromone lures will be commercially available during 1993 through Trece, Inc. (408/758-0204; Salinas, CA). A bucket-type trap sold commercially as the "Uni-trap" performed better under our field conditions than sticky wing traps and other designs.