MESBAH, ABDEL O.^{1*}, and STEPHEN D. MILLER², ¹Powell Research and Extension Center, 747 Road 9, Powell, WY 82435, and ²Dept. of Plant Sciences, P.O. Box 3354, University of Wyoming, Laramie, WY 82071. Venice mallow (*Hibiscus trionum L.*) control in sugarbeet.

Field studies were conducted in 1999 and 2000 at the Big Horn County, WY to evaluate the effect of postemergence treatments with or without layby treatments on venice mallow control in sugarbeet. Postemergence treatments consisted of the combination betamix or progress plus upbeet plus stinger using micro-rate and full rate systems. Methylated seed oil at 1.5% v/v. was added to the micro-rate system. Each treatments consisted of three applications, seven days apart, starting at cotyledon or two leaf-venice mallow stage. Layby treatments consisted of nortron and Frontier applied few hours before the second irrigation. Venice mallow control was moderate with both systems, micro rate and full rate, when applied at cotyledonstage and good to excellent when applied at two leaf-stage. Sugarbeet injuries were slightly higher with full rate than with micro-rate system. Layby treatments appears to increase venice mallow control by at least 5%. Sugarbeet injuries with frontier were slightly higher than with nortron. Sugarbeet root yields were higher in herbicide treated compared to the check and yield increases were closely related to venice mallow control. Sugar contents among all treatments including the check were similar.

The Money spans for control was in the face of modernic to high leads a manner resistance and biomacr to the available impicules. Triplergetin hydroxide [HTT16 coll for and by overny years in the available forgicides. Triplergetin hydroxide [HTT16 coll for and by overny years. However, the Correspond Mannesota for Corresponding for and by overny years. However, the Corresponding developed to the early 1000 with a formation of the second of the second state of the formation of t

The objective of the Conceptoral management proturns umplemented in 1999 was to cost effectively rotated Conceptoral severity below economic (loss length in all fields in spite of the moderate to high length length of disease resistance and talerance to the available function fail.

Trasedures.

In the late summer of 1998 American Crystal Stata Company synessonalds collared infected but samples from over '00 fields throughout the lost River Valley. The samples ware 'faken to the USDA-AKS Furgo Laboratory and teated for levels of resistance to the physically (TM) a benzimutaeole), and tolevance to TPTH and Maccoware. Spores obtained from the samples were transferred to each of seven perio phase containing materialed pointor destination again (PDA), PDA = 0.2 pain TPTH, PDA = 1.0 ppm TPTH, PDA + 8 ppm Maccower, PDA + 10 ppm Maccower, and PDA + 5 mm barranty. The cultures were involuted to 22°C and coalizated for growth ar 5 to 7 days after plating.

The months from the tests were presented as the percent of leaf spots that exhibited to be an experiment of the sources of TPTH and Mancozeb and resistance to TM at the various brock. Site specific management source were created from the test results pro pointing the severity of resistance and following to fing relates by section (1 aquare nulls) or township (36 equare rolles). The tables were created in the goographic of browning system (GIS), ArcView¹⁰