PITBLADO, RON and IAN NICHOLS, Ridgetown College University of Guelph, 130 Main St. East, Ridgetown, Ontario, Canada, NOP 2C0. The implementation of BEETCAST - a weather-timed fungicide spray program for the control of Cercospora Leafspot in Ontario and Michigan.

One of the most significant foliar diseases of sugarbeets is caused by *Cercospora beticola*, commonly known as Cercospora Leafspot. Control of this disease has been focused on genetic resistance and the use of foliar applied fungicides. In regions where climatic conditions favour the development of this disease, growers are having to rely more and more on the use of fungicides. Effective control however is achieved only when and how often these fungicides are applied. A number of researchers have developed several spray models using weather parameters. BEETCAST was developed by the authors using hourly temperature and leafwetness values to determine daily disease severity values (DSV). The program advises the grower to consider spraying when the accumulation of each days values reach 55 DSV. Subsequent spray applications would again be recommended at the next 55 DSV interval and continued until early September in the Michigan and Ontario sugarbeet growing regions. The development and delivery using site specific integration is now feasible with the advancement of geographical information systems (GIS) and an improved agricultural microclimate network recently established in both Michigan and Ontario.

**ORLECTIVE** 

To determine efficacy of Quadris/Amistar on control of Phizopionia Crown Rot (R. Solant-2-2).

Determine set thing and placement of fingstife for optimum control under natural moculation.

Compare fungicidal control of Rhizoctionia on susceptible and resistant minetic

Determine Economic Impact of Control

## MATERIALS AND METHODS,

Farm sites were were were were to 0.2, 2003 and 2004 that have had plong history of both suga 2.2 production and from incidence of Rhizoctoria (in win Rot (R. Solani AG-2-2). Trials we planted with a six row planter in a completor indomized block, replicated (our times at each) to costron. However, done with grower equipment and scale weights were taken in turing the too beet carts with onlibrated digital resid out whiles. Six row stript a grower equipment and scale weights were taken in turing the location. However, with onlibrated digital resid out whiles. Six row stript a grower taken in turing the location. Way length was been taken in turing the location. Way length was plotted in a cart plant resid out whiles. Six row stript a grower taken in turing the location. Way length was plotted to an each replication (agh) was less than 250 (eff., 1 wo and 2003 (and the function of the location (agh) was less than 250 (eff., 1 wo and 2003 (and the location in the location of the location of the stript were taken on each replication (agh) was made to Arm that. (and this was applied at the function of the location of the location of the location of the location of the plant in 2003 (and the function of the location of the location