Current seed production (1992 even) grown within the one mile boundary of a known relationsmia infected field should not be used for acid.

Tate airt incugit in with hern crops from fields within the one mile boundary should be tept separate.

The Idaho Chop improvatient Association, the agency responsible for seed certification, has characted their occurrication standards to include the following:

least matter (d)rt and rocks) shall be reduced from the current 0.5% down to 0.1% in all bean seed.

Bean ared may not be entered for certification on known rhizomaan infected fields.

PILGERAM, ALICE L.*, AND JAMES E. DUFFUS USDA-ARS, 1636 E. Alisal St., Salinas, CA 93905. - <u>Characterization of single</u>

cystosori isolates of Polymyxa betae. Polymyxa betae, a ubiquitous soil fungus, is the vector of beet necrotic yellow vein virus. The genetic diversity of Polymyxa is being studied using RAPD analysis (<u>Random Amplification of Polymorphic DNA</u>). DNA is isolated from Polymyxa zoospores, individual cystosori, or infected root tissue and amplified with a Perkin-Elmer thermocycler using standard cycling parameters (94 C, 2 minutes: 35 C, 1 minute: 72 C, 1 minute). In preliminary studies, both similarities and differences in DNA banding patterns have been observed from Polymyxa populations from several western states as well as from individual cystosori isolated from a single infected beet root. Analysis of the genetic variation between species of Polymyxa betae is in progress.

Observations and data strongly support the hypothesis that the diregae has been in thato for at least several years. If so, then our climate is probably cool enough that we will only experiment significant expression of the durate in some years. Redword disease pressure may allow us to better manage rhizomania than can be accomplished in areas where the climate is warmer and severe losses will occur whenever it is meanth.

The Rhizomania Committee continues to meet as nextstary to meet the challenge of dealing with the disease. One favorable result of the problem is that it has focused attention on the concept that agriculture is a dynamic industry, and no mitter now unrelated various aspecta may seem, we are attentioned industry in the best interval of all Idaite agriculture.