

Hennecke, B.R., Chakraborty, S., and Dale, M.L. (2001) *Control of Mimosa pigra by Phloeospora mimosae-pigrae: liquid culture production and application technique*. Plant Protection Quarterly, 16 (3). pp. 111-113.

ABSTRACT:

Shake-flask liquid fermentation was investigated to mass-produce spores of the fungal pathogen, *Phloeospora mimosae-pigrae*, a potential biological control agent for the giant sensitive plant, *Mimosa pigra*. Twenty percent Campbell's V-8 juice in large shake flasks with a pH of 6.5 yielded  $9.7 \times 10^6$  conidia mL<sup>-1</sup> *in vitro* after ten days fermentation, producing ten times the required inoculum concentration of  $1 \times 10^6$  for field applications. When sprayed using a backpack sprayer or from a helicopter, the inoculum successfully induced typical symptoms on plants under field conditions. The standardized production and application protocol for *P. mimosae-pigrae* inoculum can be used to treat large areas infested with this weed.