

DIFFERENCE IN HERBICIDE RESPONSE AMONG NIGHTSHADE AND GROUNDCHERRY SPECIES IN MICHIGAN. Vijaikumar Pandian* and Bernard H. Zandstra, Department of Horticulture, Michigan State University, East Lansing, MI 48824.

Eastern black nightshade, hairy nightshade and horsenettle are often more troublesome in solanaceous vegetable crops than clammy groundcherry and smooth groundcherry. Greenhouse experiments were conducted in 2003 and 2004 to determine any variation in sensitivity among nightshade and groundcherry species to potential herbicides. Eastern black nightshade has a higher range of tolerance to metribuzin and halosulfuron than hairy nightshade, horsenettle, clammy groundcherry and smooth groundcherry. Hairy nightshade was more susceptible to sulfentrazone among nightshade and groundcherry species whereas clammy groundcherry was more tolerant to sulfentrazone than the nightshades and smooth groundcherry. Horsenettle was more susceptible to sulfosulfuron than other nightshade and groundcherry species. All the nightshades and clammy groundcherry are susceptible to pyridate at a lower dose, whereas smooth groundcherry was more tolerant of pyridate.