

Waterhemp Plant Tissue (or Seed) Samples For Screening Resistance to PPO Herbicides



Instructions: For each field with suspected resistance to group #14 herbicides (PPO-inhibiting herbicides) please collect from five (5) separate plants. The most recently developed, younger leaf tissue is ideal for the DNA analysis. Thus, collect the uppermost portion of the plant to include the top 6 inches for juvenile plants or the four uppermost leaves on plants that have initiated seed production. Ensure that the plant tissue is relatively clean and dry before placing the tissue from each plant in separate plastic bags (ex. sandwich-sized zipper bags). Please avoid letting the samples get excessively warm and store them in a refrigerator/cooler if they are not shipped immediately. Storage before shipping should be limited to 1 or 2 days to ensure the samples are received on campus in somewhat fresh condition.

Seed from each plant can also be sent for screening purposes if desired. Please follow the same sampling procedures as stated above and collect seed from five (5) individual plants and place the seed from each plant in a separate plastic bag.

Please ship samples along with this form for next-day delivery to:

Bryan Young
Dept. of Botany and Plant Pathology
915 W. State Street
West Lafayette, IN 47907

Samples collected/submitted by:	
Company:	Date of collection:
Phone:	Email:

Field Site Information	
County:	GPS coordinates:
Physical address (if GPS not available):	
Crop in 2014:	Herbicide use in 2014:
Other pertinent information (history of weed management, suspected resistance to other herbicides, general field observations, etc.) that should be considered:	