

## Herbicide Resistance Testing and Molecular Weed ID

The University of Illinois Plant Clinic offers molecular testing for glyphosate and PPO inhibitor herbicide resistance in waterhemp and Palmer amaranth weeds. The fee is \$50 for both tests.

**NEW FOR 2017:** Molecular confirmation of Palmer amaranth in mixed samples. The fee is \$50 per sample (leaf tissue or seeds).

### Directions for collecting samples:

For Herbicide Resistance testing: After applying glyphosate and/or PPO inhibitor herbicides, select 5 waterhemp and/or Palmer amaranth survivors in the field. Remove the top few inches from each plant, containing **young, newly-emerged, healthy** leaves. Place the plants into sandwich-sized zip-top plastic bags or paper envelopes. Use a separate bag for each plant. Label the bags if multiple fields are being submitted at one time.

For Palmer Amaranth Molecular ID: Remove the top few inches from the plant, containing **young, newly-emerged, healthy** leaves. Place the plant into a sandwich-sized zip-top plastic bag or paper envelope. You can submit up to 5 individual plants, or 100 *Amaranthus* spp. seeds per sample. Please see the submission form for more information, or contact us.

### Directions for shipping:

Fill out the sample submission form and send it with the plant material to the University of Illinois Plant Clinic. We recommend sending plants via **overnight or next-day** delivery. Ideally, plant samples should be sent the same day they are collected, but if necessary they can be stored in a refrigerator (do not freeze) for a day or two. Do not send samples on Friday or Saturday to avoid weekend layovers.



The sample submission form for both of these services is included on the back of this flyer, or available for download on our website: <http://www.extension.illinois.edu/PlantClinic/> as the Molecular Services Submission Form under the Sample Forms category. Please fill out and include this form with submitted samples.

### Contact us with questions regarding sampling, testing, or results!

Results are based on the sample submitted. University of Illinois Plant Clinic does not promote the use or purchase of particular products. Reference to specific companies does not imply endorsement by the University of Illinois Plant Clinic, nor is discrimination intended against any that are not listed.

