



Arkansas Plant Health Clinic Newsletter

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Herbicide damage

We are getting plant samples from lawns, greenhouses, and cold frames with herbicide damage. Many growers do not realize how sensitive growing plants are to herbicides. Some herbicides such as glyphosate (Roundup) can drift over long distances to affect tender plants. Roundup, however, does not have any soil activity. Note that in tomato, Roundup causes bleaching at the base of leaflets. This sign of Roundup damage also occurs in dogwood. In wheat, Roundup causes shortened flags, severe leaf twisting, stuck in the boot, and bleached interveinal areas. Other classes of herbicides such as the phenoxy herbicides (2-4-d) also kill by direct contact but have a long residual in soil. Badly affected plants will not grow, flower, or fruit properly even if they survive the initial exposure. Symptoms include leaf curling, twisting, chlorosis, strapping, and stunting.

Wheat Glyphosate herbicide damage stuck in the boot-Abiotic



Photo by Sherrie Smith, University of Arkansas
Cooperative Extension



Wheat Glyphosate herbicide damage-Abiotic



Photo by Brent Griffin, University of Arkansas Cooperative Extension

Wheat Glyphosate herbicide damage-Abiotic



Photo by Sherrie Smith, University of Arkansas Cooperative Extension

Tomato Glyphosate herbicide damage-Abiotic



Photo by Bobby Hall, University of Arkansas Cooperative Extension

Dogwood Glyphosate herbicide damage-Abiotic



Photo by Sherrie Smith, University of Arkansas Cooperative Extension



Rose Glyphosate herbicide damage-Abiotic



Photo by Sherrie Smith, University of Arkansas Cooperative Extension

Impatiens Phenoxy herbicide damage-Abiotic



Photo by Sherrie Smith, University of Arkansas Cooperative Extension

Coleus Phenoxy herbicide damage-Abiotic



Photo by Sherrie Smith, University of Arkansas Cooperative Extension

Green Bean Phenoxy herbicide damage-Abiotic



Photo by Sherrie Smith, University of Arkansas Cooperative Extension

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This bulletin from the Cooperative Extension Plant Health Clinic (Plant Disease Clinic) is an electronic update about diseases and other problems observed in our lab each month. Input from everybody interested in plants is welcome and appreciated.

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