





Arkansas Plant Health Clinic Newsletter

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Willow

Willows like moist soil and can tolerate a lot of water. However, on soils that stay wet for extended periods of time, oxygen content in the soils becomes limited and feeder roots start to die. The tree tries to compensate by forming clumps of adventitious roots above the soil line. Allow the soil to dry between watering. The strange looking clusters of root initials on the trunk may or may not disappear when conditions improve.

Willow Adventitious Roots-Abiotic



Photo by Mark Keaton, University of Arkansas Cooperative Extension

Willow Adventitious Roots-Abiotic



Photo by Mark Keaton, University of Arkansas Cooperative Extension







Tomato

Every year the Plant Health Clinic receives samples suffering from herbicide damage. Vegetables, fruits, and ornamentals are all quite sensitive to both phenoxy based herbicides such as 2-4-d, and to glyphosate damage (Roundup). Roundup is not your friend in the garden. It will drift up to 1500 ft across the yard when there is a breeze. Symptoms of roundup damage to tomato are bleached white to yellow areas at the base of leaflets. Strap-like leaves, witches' brooms, and leaf curling are some of the symptoms on other species. Roundup is systemic, so perennial plants not killed outright will have damage symptoms again the following season. Large doses of the herbicide will of course kill the plant. Phenoxy based herbicides such as 2-4-d and Grazon causes extreme twisting, distortion, and leaf curl.

Tomate by Keiddy Urrea

Cada año por esta época la clínica de plantas de la Universidad de Arkansas recibe muestras con síntomas de daño causado por herbicidas. Plantas ornamentales, frutales, y vegetales son muy susceptibles a los herbicidas que contienen grupos fenoxi como el 2,4-D y herbicidas que contienen glifosato (Roundup). El Roundup es un herbicida sistémico que dependiendo de las condiciones en que se aplique puede dispersare con el viento hasta 1500 pies a lo largo del jardín. Un síntoma del daño causado por Roundup en tomates es el amarillamiento en la base de las hojas. En otras se presentan síntomas como: especies. necrosis en el borde de la hoja, torcedura y succión hacia arriba o debajo de las hojas, y malformación de las hojas y frutos. En plantas perennes, los síntomas comúnmente se volverán a presentar al siguiente año de haber sido expuestas a este herbicida. Además, es importante resaltar que largas dosis de este herbicida pueden matar a las plantas. Por otra parte, los herbicidas que contienen el grupo fenoxi, como el 2,4- D, causan síntomas como: enrollamiento, deformación y torcedura de las hojas.

Tomato Phenoxy Herbicide Damage-Abiotic



Photo by Sherrie Smith, University of Arkansas Cooperative Extension







Tomato Phenoxy Herbicide Damage-Abiotic



Photo by David Freeze, University of Arkansas Cooperative Extension

Tomato Phenoxy Herbicide Damage-Abiotic



Photo by Robert Goodson, University of Arkansas Cooperative Extension

Green Bean Phenoxy Herbicide Damage-Abiotic



Photo by Sherrie Smith, University of Arkansas Cooperative Extension

Tomato Roundup Damage-Abiotic



Photo by Sherrie Smith, University of Arkansas Cooperative Extension







Tomato Roundup Damage-Abiotic



Photo by Sherrie Smith, University of Arkansas Cooperative Extension

Collards Phenoxy Damage-Abiotic



Photo by Sherrie Smith, University of Arkansas Cooperative Extension

Blackberry Roundup Damage-Abiotic



Photo by Sherrie Smith, University of Arkansas Cooperative Extension

Coleus Phenoxy Damage-Abiotic



Photo by Sherrie Smith, University of Arkansas Cooperative Extension







Rose Roundup Damage-Abiotic



Photo by Sherrie Smith, University of Arkansas Cooperative Extension

Rose Roundup Damage-Abiotic



Photo by Sherrie Smith, University of Arkansas Cooperative Extension

Peony Roundup Damage-Abiotic



Photo by Sherrie Smith, University of Arkansas Cooperative Extension

Squash Phenoxy Damage-Abiotic



Photo by Olivia Foster, University of Arkansas Cooperative Extension







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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