

Spring Flood Tolerance of Selected Perennial Grasses

A Fact Sheet from the Jamie L. Whitten Plant Materials Center

Conservationists are often asked questions about the flood tolerance of various grasses. Such knowledge is essential in developing conservation planting plans in areas susceptible to early and late spring flooding. This becomes especially important in riparian buffer plantings where grass is used as part of the vegetative component or in bottomlands used as pasture for livestock. The following table lists the flood tolerance of several grasses that are contained in the field office technical guide and the Mississippi Planting Guide for various conservation uses. Also included are other grasses that occur in the southeastern U.S.		United States Department of Agriculture Natural Resources Conservation Service Jamie L. Whitten Plant Materials Center
Spring flood tolerance of selected perennial grasses.		Coffeeville
Grass	Flood Tolerance	Mississippi
Bermudagrass (Cynodon dactylon)	Very strong tolerance (20-30 days)	
Reed canarygrass (<i>Phalaris arundinacea</i>) Switchgrass (cultivar Kanlow; <i>Panicum virgatum</i>)	Strong tolerance (10 to 20 days) Strong tolerance (10 to 20 days)	Fact Sheet No. 2 November, 2000
Beaked panicum (<i>Panicum anceps</i>) Florida paspalum (<i>Paspalum floridanum</i>) Tall fescue (<i>Lolium arundinaceum</i>)	Strong tolerance (10 to 20 days) Strong tolerance (10 to 20 days) Strong tolerance (10 to 20 days)	This Fact Sheet is the second of a series of technical
Virginia wildrye (<i>Elymus virginiana</i>) Big bluestem (cultivar Kaw; <i>Andropogon gerardii</i>)	Strong tolerance (10 to 20 days) Moderate tolerance (5 to 10 days)	information on plant materials and
Indiangrass (Sorghastrum nutans) Johnsongrass (Sorghum halepense)	Moderate tolerance (5 to 10 days) Moderate tolerance (5 to 10 days)	their role in the conservation of our natural resources.
Eastern gamagrass (<i>Tripsacum dactyloides</i>) Purpletop (<i>Tridens flavus</i>) Weeping lovegrass (<i>Eragrostis curvula</i>)	Mild tolerance (5 days) Mild tolerance (5 days) Mild tolerance (5 days)	natural resources.
M.D. Gamble and Edd D. Rhoades. 1964. Effect of shoreline fluctuations on grasses associated with upstream flood prevention and watershed protection. Agron. J. 56:21-23. The United States Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or familial status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET (Sector 202.720.2000 (Sector 202.2000) (Sec		

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