A Final Word on Wild Grasses

by Nancy Bissett

Many of the small native bunchgrasses should be used in wildflower plantings. In a stable natural system such as a dry prairie, all the niches, or living spaces, are filled, and weeds, the great enemy of wildflower plantings, do not enter. Most niches are occupied by bunchgrasses such as wiregrass and bluestems, which have very fibrous, spreading root systems. Many wildflowers have small root systems, a few thickened roots, or even bulbs, and so they occupy the openings between the grasses. By planting small bunchgrasses interspersed with wildflowers, one can achieve a more stable wildflower planting where maintenance will consist of cutting back the garden every couple of years, rather than endlessly pulling weeds in a desperate attempt to stay ahead. Smaller bunchgrasses also provide a framework of many shades of green for the wildflower garden. Wiregrass and many of the other bunchgrasses are a staple food for the gopher tortoise. Butterflies such as the nymphs and satyrs use grasses as their larval food.

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Some grasses, such as the lovegrasses, reseed easily, and so make good candidates for restoration work. If an area is replanted with plugs, a natural density or spacing of around two feet apart may be too expensive. A wider spacing can be used as natural reseeding will fill the other niches in time. Some flatwoods and sandhill grasses, such as wiregrass and lopsided Indian grass, recolonize slowly. Early reseeding by the lovegrasses will help compete with obnoxious weedy species. Though bunchgrasses seem to dislike root disturbance and are not easily dug, divided, and replanted, they establish very quickly from containers or direct seeding. We have planted wiregrass from cone-shaped containers that are six inches deep and two inches wide in August and in one month dug them up to find root systems that spread to ten inches wide. An initial watering and reasonable rainfall are all that is needed to establish them. Too much irrigation will only promote weed seed germination and fungal problems in the grasses.

Anyone who thinks wiregrass is a lackluster grass hasn’t seen Audubon’s Kissimmee Prairie in the fall after a summer fire. Looking to the horizon, you will see waving fields of golden seed stalks. Look down and you will see hundreds of different species of wildflowers and grasses growing among the wiregrass. Wiregrass, Aristida beyrichiana (formerly A. stricta), is the dominant plant in sandhills, flatwoods, and dry prairies. It is a keystone species because it
Wiregrass stands erect when young or just burned and then spreads out to a dome or donut shape that is about two feet across. The thin, wiry dark green leaves have tufts of hairs at their bases, helping to distinguish wiregrass from several other grasses with rolled blades. If it is burned in late spring or early summer, wiregrass will flower on two to four foot golden stems in the fall. Wiregrass seed can also be sown in early winter and bloom the following fall.

Our showiest grass is giant-plume grass, *Erianthus giganteus*. In the fall, it stands ten feet tall on the edges of our swamps and sways with giant tawny feathery plumes that are about fifteen inches long and six inches wide. The grass clump is about two feet tall and in some Florida plants, the leaves are fuzzy all over. It is found throughout Florida and on the coastal plain from New York to Texas in wet soils. Typical habitats include cypress swamps, marshes, wet flatwoods, lake shores, ditches, and low fields.

Shortspike-bluestem, *Andropogon brachystachys*, is a very tall, willowy bluestem with arching branches that reach five to six feet in bloom. Through most of the year, the leafy clumps have fans of bright green, stiffly erect leaves about twelve inches tall. Shortspike-bluestem occurs in sandy soils that are moist or seasonally wet, such as flatwoods, savannas, and upper pond margins, and is especially striking in the sand sinks that are found in the scrub. Though usually occurring as individual well-spaced specimens interspersed with other grasses and wildflowers, shortspike-bluestem also occurs as the sole groundcover in some areas sloping to wetter soils. It does not, however, easily invade disturbed sites as some other bluestems do. Shortspike-bluestem occurs in all of north Florida except for the western part of the Panhandle, all of central Florida, and parts of south Florida.

It doesn’t bear showy plumes, but great damegrass, *Dicanthium commutatum*, does offer a rich, bright green groundcover for shade. It does not lose its leaves or turn brown in cold winters. We have observed it remaining green into the lower 20°F. Great damegrass is a bunchgrass, but has several leaves along each stem. The leaves are a very brilliant green, about four inches long and 3/4 inch wide. The stems tend to recline so that the overall height is usually about eight inches. Great damegrass ranges throughout most of the eastern U.S., including all of Florida. It grows well in shade or sun, though usually found in the rich soils of shady hammocks.

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12 Native Grasses

Wiregrass

Trees, shrubs, wildflowers

Upland restoration specialists

Landscape Architecture

Growing Plants of Natural Florida

New FNPS Publication on Grasses

Peggy Lantz, FNPS Books Editor

Common Grasses of Florida and the Southeast, by Lewis L. Yarlett, is being prepared for publication by FNPS and is expected to be ready in time for this year’s conference. The book will include chapters on historical information about grasses, identifying grasses and grasslike plants, how grass makes food for growth, grass names and descriptions with distribution information and environmental significance, and drawings and color photographs of over 100 species.

Author Lew Yarlett retired from the Soil Conservation Service after serving as a Range Conservationist for Texas and Florida, and then as Regional Range Conservationist for eleven western states. He returned to Florida in 1974, and taught for the University of Florida and Clemson University. His personal knowledge of the characteristics of grasses is extensive, and he has written many articles about grasses and range management for publications including The Palmetto (see his latest article in this issue). FNPS is proud to publish his book.