



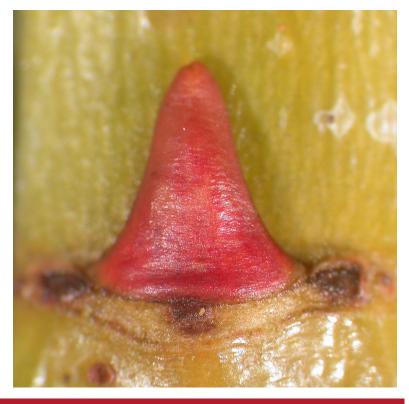
FACT SHEET

'Millbrook' Salix purpurea x S. miyabeana

Millbrook' is a high-yielding shrub willow that is disease resistant, produces multiple small stems, and is aesthetically appealing. It is well suited for biomass plantings, privacy hedges, snowfences, and ornamental plantings.









Botanical Name: Salix purpurea × S. miyabeana 'Millbrook'

(Family: Salicaceae)

Hardiness: U.S.D.A. Zones 4 - 6

U.S. Plant Patent 17,646 issued April 24, 2007

Development: 'Millbrook' was produced through controlled willow breeding in 1999 as part of a research project to produce new willow cultivars that generate high biomass yields on a variety of sites, display resistance to diseases and pests, and possess agronomic traits suitable for mechanical planting, harvesting, and post-harvest processing. 'Millbrook' was produced by crossing *Salix purpurea* '95026' with *S. miyabeana* 'SX64' to produce the trip-

loid Millbrook.

Significance: 'Millbrook' is a shrub willow cultivar displaying exceptionally rapid growth, producing greater 4 dry tonnes per acre anually in field trials, and exhibiting low incidence of rust disease and low susceptibility to potato leaf hopper or beetle damage. Woody stems can be harvested every three to four years, and new shoots will re-sprout the following season. Repeated harvesting of shrub willow plantations can be sustained for at least 15 years.

Description:

Height and Width: 15-20 feet tall, 3-5 foot crown spread at 3 years when grown at 2 x 3 foot spacing.

Habit: Fast-growing, upright, deciduous shrub with multiple small-diameter, vertical stems. **Foliage:** Green oblong leaves, typically 3-3.5 inches long, 0.5-1 inches wide, with foliage

April through October in Zone 5.

Bark: Grey-orange when young, turning yellow-green with slightly rough bark and red lenticels with age; red-orange buds in winter.

Flowers: Female, early spring.

Seeds: Small number of viable seeds produced in early spring.

Culture: Adaptable to a wide range of soil and moisture conditions. Prefers maximum sunlight.

Propagation: Roots easily from dormant stem cuttings.

Uses: Excellent for bioenergy plantations, privacy hedges, living snow- fences, and ornamental plantings.

Availability: Available from Double A Willow (www.doubleawillow.com)

Originally published 2007 by SUNY-ESF

Kimberly D. Cameron 1 , Lawrence Smart 1* , Benjamin Ballard 2 , Timothy Volk 3 , and Lawrence Abrahamson 3

¹Dept. of Horticultural Sciences, ²SUNY at Morrisville, NY 13408, ³SUNY College of Environmental Science & Forestry, Syracuse, NY 13210

*Contact: lbs33@cornell.edu, 315-787-2490

Funding provided by New York Farm Viability Institute to LB Smart.

This variety is licensed by the research foundation of SUNY exclusively to Double A Willow





