

## *Salix purpurea* × *S. miyabeana* 'Millbrook'

The State University of New York College of Environmental Science and Forestry (SUNY-ESF) presents 'Millbrook' shrub willow from their willow breeding program. '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.



# *Salix purpurea* × *S. miyabeana* 'Millbrook'



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

(Family: Salicaceae)

U.S. Plant Patent 17,646

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

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'.

**Significance:** 'Millbrook' is a shrub willow cultivar displaying exceptionally rapid growth, producing greater than 65% more woody biomass than a production variety 'SX67' in a selection trial, and exhibiting low incidence of rust disease or damage by beetle or sawfly. 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:** Not known to be pollinated under field conditions.

**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](http://www.doubleawillow.com)) beginning Spring 2007.

For information on the SUNY-ESF Willow Biomass Program go to [www.esf.edu/willow](http://www.esf.edu/willow).

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