

Rosa multiflora [简体中文](#) [正體中文](#)

System: Terrestrial

Kingdom	Phylum	Class	Order	Family
Plantae	Magnoliophyta	Magnoliopsida	Rosales	Rosaceae

Common name baby rose (English), Japanese rose (English), multiflora rose (English), seven-sisters rose (English)

Synonym *Rosa cathayensis* , (Rehd. & Wilson) Bailey

Similar species

Summary *Rosa multiflora* is a perennial shrub that forms dense, impenetrable thickets of vegetation . It colonises roadsides, old fields, pastures, prairies, savannas, open woodlands and forest edges and may also invade dense forests where disturbance provides canopy gaps. It reproduces by seed and by forming new plants that root from the tips of arching canes that contact the ground. *Rosa multiflora* is tolerant of a wide range of soil and environmental conditions and is thought to be limited by intolerance to extreme cold temperatures. Many species of birds and mammals feed on the hips of *Rosa multiflora*; dispersing the seeds widely. *R. multiflora* can colonise gaps in late-successional forests, even though these forests are thought to be relatively resistant to invasion by non-native species. It invades pasture areas, degrades forage quality, reduces grazing area and agricultural productivity and can cause severe eye and skin irritation in cattle. There are many strategies available to manage and control *R. multiflora* involving physical, chemical and biological means.



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Species Description

Munger (2002) states that *R. multiflora* "bushes grow to a height of 1.8 to 3 metres and occasionally 4.6m. Stems (canes) are few to many, originating from the base, much branched, and erect and arching to more or less trailing or sprawling. Canes grow to 4m long and are armed with stout recurved prickles. Leaves are alternate, pinnately compound, and 8 to 11cm long with 5 to 11 (usually 7 or 9) leaflets 2.5 to 4cm long. Flowers are 1.3 to 1.9cm across and number 25 to 100 or more in long or pointed panicles. Fruits (hips) are globular to ovoid, 0.64cm or less in diameter. Seeds are angular achenes."

Notes

Bergmann and Swearingen (2001) state that *R. multiflora*, "Was introduced to the East Coast of the USA from Japan in 1866 as rootstock for ornamental roses. Beginning in the 1930s, the U.S. Soil Conservation Service promoted it for use in erosion control and as 'living fences' to confine livestock. State conservation departments soon discovered value in *R. multiflora* as wildlife cover for pheasant, bobwhite quail, and cottontail rabbit and as food for songbirds and encouraged its use by distributing rooted cuttings to landowners free of charge. More recently, *R. multiflora* has been planted in highway median strips to serve as crash barriers and to reduce automobile headlight glare. Its tenacious and unstoppable growth habit was eventually recognized as a problem on pastures and unplowed lands, where it disrupted cattle grazing. For these reasons, *R. multiflora* is classified as a noxious weed in several states."

Lifecycle Stages

The Wisconsin Department of Natural Resources (2003) states that *R. multiflora*, "Blooms in May or June. Individual plants may produce up to 500,000 seeds per year. The majority of seedlings emerge near the parent plant from which the seeds fell. In addition, many species of birds and mammals feed on the hips, dispersing the seeds widely. The canes are also capable of rooting when in contact with soil."

Uses

The origins of *R. multiflora* in North America stem from its use as a rootstock species for ornamental roses and as a fencerow plant." Munger (2002) states that in North America, *R. multiflora* "hips are consumed by many species of birds including grouse (Phasianinae), ring-necked pheasants (*Phasianus colchicus*) and wild turkeys (*Meleagris gallopavo*), and are particularly sought after by cedar waxwings (*Bombycilla cedrorum*) and American robins (*Turdus migratorius*). Leaves and hips are consumed by chipmunks, white-tailed deer, opossums, coyotes, black bears, beavers, snowshoe hares, skunks, and mice. Leaves, twigs, bark and fruit are eaten by cottontail rabbits, particularly during fall and winter. The hips of *Rosa* spp. are especially important as winter wildlife food, when other high-nutrition foods are unavailable. *R. multiflora* is used for cover during all times of year by cottontail rabbits, white-tailed deer, pheasants, and mice. It is a preferred nesting site species for gray catbirds. Southwestern willow flycatchers, a federally listed endangered species, were observed nesting in *R. multiflora* in New Mexico."

Habitat Description

Munger (2002) states that *R. multiflora* "...frequently colonizes roadsides, old fields, pastures, prairies, savannas, open woodlands, and forest edges, and may also invade dense forests where disturbance provides canopy gaps. It is most productive in sunny areas with well-drained soils." *R. multiflora* "...is tolerant of a wide range of soil and environmental conditions, but is not found in standing water or in extremely dry areas. Its northern distribution is thought to be limited by intolerance to extreme cold temperatures, but specific information is lacking." (Munger, 2002).

Reproduction

Bergmann and Swearingen (2001) state that *R. multiflora*, "Reproduces by seed and by forming new plants that root from the tips of arching canes that contact the ground. Fruits are readily sought after by birds, which are the primary dispersers of its seed. It has been estimated that an average *R. multiflora* plant may produce a million seeds per year, which may remain viable in the soil for up to twenty years. Germination of *R. multiflora* seeds is enhanced by passing through the digestive tract of birds."

General Impacts

Munger (2002) states that, "Because seeds are bird dispersed, *R. multiflora* can colonize gaps in late-successional forests, even though these forests are thought to be relatively resistant to invasion by nonnative species. However, without extensive or recurrent disturbance, *R. multiflora* is probably not a serious long-term invasion threat in mature forests. It will likely be shaded out by surrounding trees and shade-tolerant shrubs. *R. multiflora* is clearly a serious pest plant in many areas of North America. It invades pasture areas, degrades forage quality, reduces grazing area and agricultural productivity and can cause severe eye and skin irritation in cattle. *R. multiflora* can spread rapidly, severely restricting access to pasture and recreational areas with 'impenetrable thickets'. Its characteristic dense growth of foliage and stems inhibits growth of competing native plants."

Management Info

Physical: One eradication method that is believed to be quite effective is routine prescribed burning. It may be preferred over introducing rose rosette disease, which will affect native and other ornamental roses as well as multiflora rose (Szafoni, R.E. 1991).

Chemical: Where appropriate, herbicides may be an effective means of controlling *R. multiflora*, especially when used in combination with other methods. Foliar spraying is effective throughout the growing season as long as leaves are fully formed. Dormant season application is also effective, and further reduces nontarget mortality. Basal bark treatment, applied to the lower 46 to 6cm of the stem and onto the root crown, is a recommended chemical control method for dormant season application. Follow-up monitoring and retreatment during the subsequent growing season may be required to ensure effectiveness.

Biological: *R. multiflora* is highly susceptible to rose rosette disease (RRD), which is transmitted by the eriophyid mite *Phyllocoptes fructiphilus*. Based on field experiments, Amrine and Stasny project that RRD has the potential to eliminate over 90 % of the *R. multiflora* in areas of dense stands. RRD can also be transmitted to healthy *R. multiflora* plants by grafting buds from symptomatic plants. Introducing a few infected grafts into relatively dense stands can potentially lead to widespread infection within a *R. multiflora* population.

Another potential biocontrol agent is the rose seed chalcid (*Megastigmus aculeatus*), a Japanese wasp that has become established in the eastern United States. The adult wasps oviposit into developing *R. multiflora* ovules, where larvae later consume seeds.

Defoliation experiments indicate periodic browsing of foliage by livestock may effectively control *R. multiflora*. Domestic sheep and goats will feed on leaves, new buds, and new shoots. Cattle are much less effective in controlling *R. multiflora*.

Integrated management: Munger (2002) states that, "Well-established populations are unlikely to be eradicated with a single treatment, regardless of method. Because seeds remain viable in soil for many years, and because new seeds may be continually imported by birds and other animals, effective management requires post-treatment monitoring and spot treatment are needed for an indeterminate time to prevent reinvasion." The author goes on to report that, "*R. multiflora* can be controlled by periodic mowing or cutting of individual plants. Painting or spraying cut stems with herbicides expedites control by killing root systems and preventing resprouting. Another approach is to follow an initial mowing with foliar applied herbicide once plants have resprouted. In high quality natural areas, cutting individual stems may be preferable to mowing, since repeated mowing might damage sensitive native plants."

For large infestations, mowing may be preferable due to efficiency. Periodic annual mowing can also prevent *R. multiflora* seedlings from becoming established. Removal of entire plants may be feasible in high quality natural areas when populations are sparse enough. Removal of the entire root system is required to ensure no regrowth from suckering.

Pathway

Beginning in the 1930s, the U.S. Soil Conservation Service promoted it for use in erosion control and as 'living fences' to confine livestock (Bergmann and Swearingen, 2001).

Principal source: [Munger, 2002 *Rosa multiflora*](#)

Compiler: National Biological Information Infrastructure (NBII) & IUCN/SSC Invasive Species Specialist Group (ISSG)

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Management information

[Bergmann, C., and J. M., Swearingen. 2001. *Multiflora Rose: Rosa multiflora Thunb.* Plant Conservation Alliance, Alien Plant Working Group.](#)

Summary: Information on description, economic importance, distribution, habitat, history, growth, and impacts and management of species.

Available from: <http://www.nps.gov/plants/alien/fact/romu1.htm> [Accessed 22 October 2003].

[Munger, G. T. 2002. *Rosa multiflora*. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory. Fire Effects Information System, \[Online Database\].](#)

Summary: Information on description, economic importance, distribution, habitat, history, growth, and impacts and management of species.

Available from: <http://www.fs.fed.us/database/feis/plants/shrub/rosmul/all.html> [Accessed 22 October 2003].

Szafoni, R.E. 1991. Vegetation management guideline: Multiflora rose.

Wisconsin Department of Natural Resources. 2003. *Multiflora Rose: Rosa multiflora*. Non-Native Invasive Species: Plants.

Summary: Information on description, economic importance, distribution, habitat, history, growth, and impacts and management of species.

General information

[ITIS \(Integrated Taxonomic Information System\). 2005. Online Database *Rosa multiflora*](#)

Summary: An online database that provides taxonomic information, common names, synonyms and geographical jurisdiction of a species. In addition links are provided to retrieve biological records and collection information from the Global Biodiversity Information Facility (GBIF) Data Portal and bioscience articles from BioOne journals.

Available from:

http://www.cbif.gc.ca/pls/itisca/taxastep?king=every&p_action=containing&taxa=Rosa+multiflora&p_format=&p_ifx=plgt&p_lang= [Accessed March 2005]

[USDA-GRIN \(Germplasm Resources Information Network\). 2003. *Rosa multiflora*. National Genetic Resources Program \[Online Database\] National Germplasm Resources Laboratory, Beltsville, Maryland.](#)

Summary: Information on common names, synonyms, and the distributional range of species.

Available from: <http://www.ars-grin.gov/cgi-bin/npgs/html/taxon.pl?32108> [Accessed 22 October 2003].

[USDA-NRCS \(Natural Resource Conservation Service\). 2002. *Rosa multiflora*. The PLANTS Database Version 3.5 \[Online Database\] National Plant Data Center, Baton Rouge, LA](#)

Summary: Available from: <http://plants.usda.gov/java/profile?symbol=ROMU> [Accessed 22 October 2005].