

Phragmites

Phragmites australis



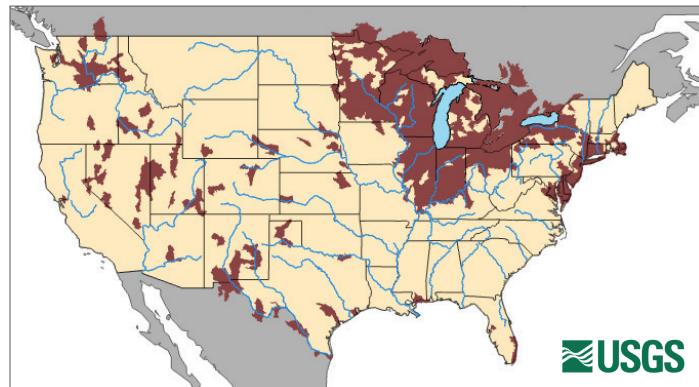
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Phragmites, also called the Common Reed, is a perennial grass that grows in tall stands and excludes other vegetation. While some strains of the species are native to North America, aggressive non-native strains have expanded throughout the United States, replacing much of the native reed.

Species Description

Phragmites forms dense stands that can reach up to 15 feet high. Its leaves are broad and pointed and reach 20-61 cm (8-24 in) in length, and its flowers form bushy, fluffy clusters of fine hairs that grow on the seeds as they mature. Below ground, Phragmites forms a dense network of roots and rhizomes several feet deep. Rhizomes can grow 10 ft (3m) or more in a single season. Differentiating between native and invasive forms of Phragmites can be very difficult, so DNA analysis is the most reliable method for identifying strains.



Native & Introduced Ranges

Although the species name 'australis' suggests that Phragmites is native to Australia, it is believed to have originated from the Middle East. Genetic research has shown three separate lineages occurring in North America: a native strain, a European strain, and one whose lineage is unclear. The invasive European strain was introduced in the 1800s, most likely in ballast material from transoceanic ships. It is now widespread throughout the lower 48 states and southern Canada.

Biology & Spread

Phragmites reproduces and spreads both by seed production and through vegetative fragmentation of rhizomes. Hundreds to thousands of seeds are produced each year which can spread to new locations by wind and water; although, seed viability can be highly variable. The extensive root and rhizome network allows this species to reproduce asexually as rhizomes break off and float downstream to new locations. Heavy machinery and equipment may also transport this species along roadsides between sites.

Habitat

Phragmites is unusual among grasses because it is able to colonize a wide range of habitats, including fresh and brackish waters. It is abundant along the borders of lakes, ponds, rivers, marsh communities, roadsides, and disturbed areas.

Impacts

Threat to Biodiversity

Introduced Phragmites is aggressive and quickly develops dense stands that take over wetland ecosystems, alter wetland hydrology, increase fire potential, and reduce wetland wildlife habitat. Phragmites consumes available growing space and pushes out other plants, including native strains of the species, quickly turning once biologically diverse wetlands into monocultures.

Economic Costs

Marsh restoration efforts to remove Phragmites can be very expensive and are often ineffective since this species can be quick to return after burning and chemical treatments.



Photo courtesy of Bob Harris.



Photo courtesy of Ken Chamberlain, The Ohio State University, Bugwood.org.



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