



Declared Plant Policy

This policy relates to natural resources management under section 9(1)(d) of the Landscape South Australia Act 2019 (the Act), enabling co-ordinated implementation and promotion of sound management programs and practices for the use, development or protection of natural resources of the State. Specifically, this policy provides guidance on the use and management of natural resources relating to the prevention or control of impacts caused by pest species of plants that may have an adverse effect on the environment, primary production or the community, as per object s7(1)(f) of the Act.

primrose willow (*Ludwigia peruviana*)

Primrose willow is a shrub to 4 metres high that grows in shallow water of stream edges and wetlands. It is naturalised in the eastern States but has not been found in South Australia.

Management Plan for Primrose Willow

Outcomes

- To maintain waterways free of blockages and keep streams and wetlands free of major weed threats.

Objectives

- Prevent introduction of primrose willow to waterways and wetlands.
- Destroy any infestations as they occur.

Best Practice Implementation

- Any infestation of primrose willow discovered to be treated as an incursion and destroyed.
- Sale and movement of primrose willow prohibited.
- Regional landscape boards and Green Adelaide to inspect waterways and wetlands for the presence of aquatic weeds.

Regional implementation

Region	Actions
Alinytjara Wilurara	Prevent entry or sale; destroy if detected
Eyre Peninsula	Prevent entry or sale; destroy if detected
Green Adelaide	Prevent entry or sale; destroy if detected
Hills and Fleurieu	Prevent entry or sale; destroy if detected
Kangaroo Island	Prevent entry or sale; destroy if detected
Limestone Coast	Prevent entry or sale; destroy if detected
Murraylands and Riverland	Prevent entry or sale; destroy if detected
Northern and Yorke	Prevent entry or sale; destroy if detected
South Australian Arid Lands	Prevent entry or sale; destroy if detected

primrose willow policy

Declaration

To implement this policy, primrose willow is declared under the *Landscape South Australia Act, 2019* throughout the whole of the State of South Australia. Its entry to South Australia, movement or transport on a public road by itself or as a contaminant, or sale by itself or as a contaminant are prohibited. Notification of infestations is necessary to ensure these are destroyed. Land owners are required to destroy any primrose willow plants growing on their properties. Regional landscape boards and Green Adelaide are required to destroy plants on road reserves, and may recover costs from the adjoining land owners.

Primrose willow is declared in category 1 under the Act, for the purpose of setting maximum penalties and for other purposes. Any permit to allow its entry, road transport or sale can only be issued by the Chief Executive of the Department for Environment and Water or their delegate pursuant to section 197.

Under the *Landscape South Australia (General) Regulations 2020*, Regulation 27 specifies the conditions under which a person is exempt from the operation of section 186 and may transport wool, grain or other produce or goods carrying primrose willow on public roads, or bring them into the State. Regulation 28 specifies conditions under which a person is exempt from the operation of section 188(2) and may sell wool, grain or other produce or goods carrying primrose willow. Note that certain produce or goods may be excluded from these general movement and sale exemptions by Gazettal Notice of the Chief Executive, DEW.

The following sections of the Act apply to primrose willow throughout each of the regions noted below:

Sections of Act	Region								
	AW	EP	GA	HF	KI	LC	MR	NY	SAAL
186(1) Prohibiting entry to area	X	X	X	X	X	X	X	X	X
186(2) Prohibiting movement on public roads	X	X	X	X	X	X	X	X	X
188(1) Prohibiting sale of the plant	X	X	X	X	X	X	X	X	X
188(2) Prohibiting sale of contaminated goods	X	X	X	X	X	X	X	X	X
190 Requiring notification of presence	X	X	X	X	X	X	X	X	X
190(1) Land owners to destroy the plant on their properties	X	X	X	X	X	X	X	X	X
192(2) Land owners to control the plant on their properties									
194 Recovery of control costs on adjoining road reserves	X	X	X	X	X	X	X	X	X

Review

This policy is to be reviewed by 2025 or in the event of primrose willow being found established as a weed in South Australia.

Weed Risk

Invasiveness

Primrose willow produces very large numbers of small seeds, which are dispersed mainly by water flow. Movement between water bodies depends on birds, and also on accidental transport on machinery and vehicles. Seedlings establish on exposed mud in spring, and begin flowering after 2 years.

primrose willow policy

The plant also spreads locally by suckers from submerged roots, and fragments may float downstream in floods.

Impacts

Primrose willow occupies saturated soils or shallow water, eventually forming a monoculture in wetlands, swamps, drying mud, shallow slowly-flowing waterways, marshy areas, riparian vegetation, and creek banks. Its dense stands can obstruct water flow, impede use of water bodies by boats and swimmers, and reduce access to drinking water by native animals and livestock.

Potential distribution

In South Australia, primrose willow is a potential weed along the River Murray wetlands and riverbanks, and streams in the highest rainfall parts of the State.

Feasibility of Containment

Control costs

As all the foliage is above water level, primrose willow could be controlled by nonselective knockdown herbicides such as glyphosate. However, this control method is labour-intensive and may be limited by risks of off-target damage to native species. Digging is used to remove spot infestations.

Persistence

Control actions may need to be repeated for more than two years because of regrowth from underwater stem bases and suckers.

Current distribution

Not naturalised in South Australia.

State Level Risk Assessment

Assessment using the Biosecurity SA Weed Risk Assessment protocol gave the following comparative weed risk and feasibility of containment scores by land use:

Land use	Weed Risk	Feasibility of control	Response at State Level
Aquatic	medium 57	very high 0	contain spread, alert

Considerations

Native to Central and South America, and introduced to Australia as an ornamental plant for its large yellow flowers, primrose willow is now naturalised on the central coast of New South Wales.

primrose willow policy

Due to its medium weed risk, absence from the State and very high feasibility of control, primrose willow is regarded as a State Alert Weed and a high priority surveillance target to increase the likelihood of early detection.

Synonymy

Ludwigia peruviana (L.) H.Hara, J. Jap. Bot. 28: 293 (1953)

Basionym: *Jussiaea peruviana* L., Sp. Pl. 1: 388 (1753)

Taxonomic synonyms: *Jussiaea mollis* Kunth, Prodr. 6: 102 (1823)

Oenothera hirta L., Syst. Nat. 10th edn 2: 998 (1759)

Other common names include Peruvian primrose bush and water primrose. It has been incorrectly called *Jussiaea grandiflora* in horticulture.

Hon David Speirs MP

Minister for Environment and Water

Date: 28 March 2021