

GLOBAL INVASIVE SPECIES DATABASE

FULL ACCOUNT FOR: Cardiospermum grandiflorum

Cardiospermum grandiflorum 简体中文 正體中文

Kingdom	Phylum	Class	Order	Family
Plantae	Magnoliophyta	Magnoliopsida	Sapindales	Sapindaceae
Common name	Balloon vine (English), Grand balloon vine (English), Showy balloonvine (English)			
Synonym	Cardiospermum barbicule , Cardiospermum hirsutum ,			
Similar species	Cardiospermum halicacabum, Cayratia clematidea, Clematis glycinoides, Clematis aristata			
Summary	Balloon vine (Cardiospermum grandiflorum) is an invasive tendril climber growing in damp situations, often near river banks. It forms dense but localised infestations and competes with, and smothers, indigenous plant species.			
	view this species on IUCN Red List			



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Species Description

Balloon vine (*Cardiospermum grandiflorum*) is a vigorous, vine-like climber with a spread of 6m or more; hairy leaves and stems; white or yellow flowers grouped together in clusters - pleasant smelling with two tendrils at the base of each cluster; fruits form a large round capsule; seeds are round, changing from green to black when ripe, with an oblong white spot (hilum). Reproduces only by seed WESSA (2006). Please follow this link to view images of balloon vine, its habit, flowers and seeds.

Lifecycle Stages

Germination of the seed on introduced habitats can occur at any time during the year. Seed longevity is estimated to be around 2 years (Vivian-Smith *et al.*, 2002). However, the exact plant and seed longevity is yet to be confirmed. Further research is currently being undertaken in order to determine various aspects of the plant ecology.

Uses

Various parts of balloon vine (*Cardiospermum grandiflorum*) can be extracted to provide medicinal applications. For example, the derivatives of the root of the plant has been shown to offer laxative, emetic and diuretic effects. Additionally, the leaves of the plant can be made into medicine which can effectively alleviate swelling, oedema and pulmonary complications (Aluka, 2008).

Habitat Description

Balloon vine (*Cardiospermum grandiflorum*) prefers moist soils and will tolerate occasional flooding. *C. grandiflorum* tolerates some shade but is most vigorous in full sun (PIER, 2007).

Reproduction

Seed - the light papery capsules float in water and can also be transported by wind (ESC, 2008).

System: Terrestrial



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Nutrition

Balloon vine (*Cardiospermum grandiflorum*) thrives in well-drained soil types, thus making riparian habitats the ideal location. It has also been noted that optimal growth takes place in well-lit (sunny) locations, although it is capable of germinating in dark conditions. (ARC, 2008)

General Impacts

Balloon vine (*Cardiospermum grandiflorum*) is an invasive climber growing in damp situations; often near river banks. It forms dense but localised infestations and can grow to enormous lengths and is capable of smothering a tree 10m tall. It competes with, and smothers, indigenous plant species by preventing their ability to effectively undergo photosynthesis. *C. grandiflorum* invades forest margins, watercourses and urban open spaces in subtropical regions (Wessa, 2006)

Management Info

<u>Chemical</u>: Chemical management (herbicides) of balloon vine (*Cardiospermum grandiflorum*) is difficult due to their close proximity to water sources. Furthermore, native species may be affected by the treatment. However, limited success is met with the use of glyphosate (Brain, 1997).

<u>Physical</u>: Hand-pulling or digging out of young plants and spraying larger plants. Plants can be cut at the base, leaving top growth to die off in and then the root dug out. Cutting and painting or scraping and painting very large plants (Brain, 1997).

Pathway

Balloon vine (*Cardiospermum grandiflorum*) was probably introduced to Australia as an ornamental garden creeper (BRAIN, 1997).

Principal source: Pacific Island Ecosystems at Risk, (PIER), 2007. Cardiospermum grandiflorum

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ALIEN RANGE

[3] AUSTRALIA[1] FRENCH POLYNESIA[1] SOUTH AFRICA[1] UNITED STATES

[1] COOK ISLANDS[6] NEW ZEALAND[1] SPAIN

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Available from: http://www.esc.nsw.gov.au/weeds/sheets/vines/v%20Bailoon%20vine.htm [Accessed 1 Febuary, 200 Global Compendium of Weeds (GCW), 2007. Cardiospermum grandiflorum (Sapindaceae)

Summary: The Global Compendium of Weeds (GCW) is a list of plant species (over 28,000 names) that have been cited in specific references (approximately 1,000) as weeds. An expert has assessed the status of the weed based on its context in each document. Sometimes, additional information--such as native range, whether the plant has reported medical/herbal uses, etc.--is included when available.

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