

GLOBAL INVASIVE SPECIES DATABASE

FULL ACCOUNT FOR: Ligustrum lucidum



System: Terrestrial

Kingdom	Phylum	Class	Order	Family
Plantae	Magnoliophyta	Magnoliopsida	Scrophulariales	Oleaceae

glossy privet (English), tree privet (English), privet (English), large leaf privet Common name

(English), broadleaf privet (English), ligustrum privet (English)

Synonym Faulia verrucosa , Raf.

> Ligustrum esquirolii , H.Lev. Ligustrum hookeri, Decne.

Ligustrum nepalense , Wall.var. glabrumHook.

Ligustrum roxburghii, Blume

Olea clavata, G.Don Phillyrea paniculata, Roxb. Visiania paniculata , (Roxb.)DC. Esquirolia sinensis , H.Lev.

Ligustrum lucidum, Aiton f.var. esquirolii(H.Lev.) H.Lev.

Similar species Cinnamomum camphora, Acmena smithii, Backhousia myrtifolia

Summary Ligustrum lucidum (tree privet) is a native of Asia and has been introduced to

many different locations, mainly for gardens and hedges. Its ability to grow in different habitats has made it an extremely noxious weed in several places, including Australia, New Zealand, South Africa, Mozambique and some parts of

Continental America.



view this species on IUCN Red List

Species Description

Tree privet is a fast-growing evergreen tree approximately 8m to 14m in height with a 8m to 12m spread. It has a dense canopy of bending branches composed of glossy green leaves which have narrow, translucent margins, (Gilman & Watson, 1993). Leaves are dark green, with a paler green undersurface. Flowers are produced in large clusters and are small, cream-coloured and strongly scented (Environment B.O.P). After pollination by insects fruits ripen into bunches of small, oblong, 1cm long, purplish black berries.

Both leaves and fruit are poisonous to humans, (South Coast Weeds, Eurobodalla Shire Council).

Uses

Since ancient times, *ligustrum* berries have been employed as a 'yin' tonic in traditional Chinese medicine. Ligustrum was used for a wide range of conditions, including premature aging and ringing in the ears, (FredMeyer, Health guide).

Habitat Description

L. lucidum survive easily in dry, moist, and wet forests, forest margins, forest remnants, farm hedgerows, shrublands, open areas, gardens, roadsides, wasteland, riverbanks, wetlands, coastal dunes and coastal cliffs, (Csurhes & Edwards, 1998, Batcher, 2000 and Auckland Regional Council, 1999). L. lucidum grows up to at least 6000 ft (2000m.) elevation in Hawai'i, (PIER, 2002).



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Reproduction

Flowering occurs in the summer months (varies depending on location). Strongly scented flowers attract pollinating insects, (Auckland Regional Council, 1999). The fruits ripen and are dispersed by frugiferous birds (PIER, 2002). Annual seed production is enormous. Root suckers can also come up after the parent plant is removed, (South Coast Weeds, Eurobodalla Shire Council).

General Impacts

L. lucidum has the potential to replace mid-canopy trees in forests and completely dominate an area of forest or forest fragments if not controlled (New Zealand Weeds Web Site 1999, in Batcher, 2000). Tree privet often displaces native species in regenerating communities and if left undisturbed, may eventually dominate an area of forest (Auckland Regional Council, 1999). It is widely believed to contribute to allergies and asthma, though it does not produce any wind-blown pollen as the plant is insect-pollinated,, (Common Weeds of New Zealand).

Management Info

Physical: Small plants may be hand pulled; older individuals need to be dug out.

<u>Chemical</u>: For overall spray application, the following herbicides are suitable: Glyphosate (e.g. Roundup G2): knapsack: 100ml per 10 litres of water handgun: 1 litre per 100 litres of water NB: The addition of Pulse penetrant at a rate of 100ml per 100 litres water is recommended to improve herbicide uptake. Escort: knapsack: 5g per 10 litres of water handgun: 20g per 100 litres of water NB: The addition of Pulse, Boost or Freeway at 100ml per 100 litres of water will improve herbicide uptake. Tordon Brushkiller: knapsack: 100ml per 10 litres of water handgun: 1 litre per 100 litres of water. The stem cut and inject method is suitable for privet plants with a stem diameter of 50mm or more. Ring bark the base of the stem with downward axe/machete strokes, cutting into the sap wood. Apply herbicide to the point of runoff into each downward cut immediately after cuts have been made. Suitable herbicides and dilution rates for cut and inject treatment are: Glypohosate (e.g. Roundup G2): Use neat (i.e. undiluted) Escort: 20 g (+ 10ml Pulse penetrant) per litre of water Stump treatment Cut plant off about 50mm above ground level. Apply herbicide mixtures to top and sides of the stump. Pulse penetrant will aid uptake of the herbicide. Suitable herbicides and dilution rates for stump treatment of Privet are: Glyphosate: 2 litres (+10ml Pulse) per 10 litres of water Escort: 5g (+10ml Pulse) per 10 litres of water NB: Herbicide must be applied immediately after stumps have been cut. Herbicide is most effective when applied during Privet's active growing season - spring or autumn in fine weather. If using Escort, avoid use over or nearby desirable plants, or in areas where their roots may extend. (Environment B.O.P. 1998). Biological: An investigation of possible biological control agents is under way on La Réunion. (Environment B.O.P. 1998)

Please see 'The Nature Conservancy's' <u>Stewardship Abstract</u> for detailed information on control methods.

Pathway

Introduced to New Zealand as ornamental plants and widely grown as hedging. (Auckland Regional Council, 1998)

Principal source: Pacific Island Ecosystem at Risk (PIER), 2004. Ligustrum spp.

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ALIEN RANGE

[5] AUSTRALIA [1] BERMUDA [17] CHINA [1] MOZAMBIQUE



GLOBAL INVASIVE SPECIES DATABASE

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[8] NEW ZEALAND [1] SOUTH AFRICA [10] UNITED STATES [1] NORFOLK ISLAND [1] TONGA

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ITIS (Integrated Taxonomic Information System), 2005. Online Database Ligustrum lucidum

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.

 $http://www.cbif.gc.ca/pls/itisca/taxastep?king=every\&p_action=containing\&taxa=Ligustrum+lucidum\&p_format=\&p_ifx=plglt\&p_lang=[Accessed March 2005]$

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