

# GLOBAL INVASIVE SPECIES DATABASE

FULL ACCOUNT FOR: Ligustrum lucidum



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).

**System:** Terrestrial



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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' Stewardship Abstract 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

#### **BIBLIOGRAPHY**

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### **Managment information**

Environment B.O.P. 1998. Plant Pests Control Fact Sheet PP10/98. Privet. Environment B-O-P. 2p.

Summary: Management information.

Available from: http://www.landcare.org.nz/biodiversity/Reference v.asp?ReferenceID=685 [Accessed 25 February 2003]

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Haley, N. 1997. Weeds in New Zealand.

**Summary:** General information on distribution, management, description and dispersal. Available from: http://www.boprc.govt.nz/green/weed101.htm [Accessed 25 February 2003]

National Pest Plant Accord, 2001. Biosecurity New Zealand.

**Summary:** The National Pest Plant Accord is a cooperative agreement between regional councils and government departments with biosecurity responsibilities. Under the accord, regional councils will undertake surveillance to prevent the commercial sale and/or distribution of an agreed list of pest plants.

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Summary: Available from: http://www.rnzih.org.nz/pages/nppa\_086.pdf [Accessed 1 October 2005]

South Coast Weeds. Eurobodalla Shire Council.

**Summary:** Description, habitats, dispersal, management information, and look-alike plants.

Available from: http://www.esc.nsw.gov.au/Weeds/Sheets/trees/T%20Privets.htm [Accessed 25 February 2003]

Varnham, K. 2006. Non-native species in UK Overseas Territories: a review. JNCC Report 372. Peterborough: United Kingdom.

Summary: This database compiles information on alien species from British Overseas Territories.

Available from: http://www.jncc.gov.uk/page-3660 [Accessed 10 November 2009]

#### **General information**

Batcher, Michael S, 2000. Element Stewardship Abstract for Ligustrum spp. Privet. The Nature Conservancy.

**Summary:** Nature conservancy report on the *Ligustrum* spp. Includes descriptions, distributions, impacts, management information, habitat, ecology, and other miscellaneous information.

Available from: http://tncweeds.ucdavis.edu/esadocs/documnts/ligu sp.html [Accessed 25 February 2003]

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Summary: Distribution information.

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**Summary:** Brief summary of tree privet. A general overview.

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FredMeyer, Health guide. • Copyright 2003 The Kroger Co.

Summary: Plant uses.

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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. Available from:

 $http://www.cbif.gc.ca/pls/itisca/taxastep?king=every\&p\_action=containing\&taxa=Ligustrum+lucidum\&p\_format=\&p\_ifx=plglt\&p\_lang=[Accessed March 2005]$ 

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S. Csurhes & R. Edwards, 1998. Potential Environmental weeds in Australia. Queensland Department of Natural Resources. Queensland.

**Summary:** Distribution information.