**Schinus terebinthifolius**

**System:** Terrestrial

<table>
<thead>
<tr>
<th>Kingdom</th>
<th>Phylum</th>
<th>Class</th>
<th>Order</th>
<th>Family</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plantae</td>
<td>Magnoliophyta</td>
<td>Magnoliopsida</td>
<td>Sapindales</td>
<td>Anacardiaceae</td>
</tr>
</tbody>
</table>

**Common name**

pimiento de Brasil (English, Puerto Rico), Christmas berry (English), Mexican pepper (English), Brazilian pepper tree (English), Brazilian pepper (English), Brazilian holly (English), Rosapfeffer (German), Florida holly (English), poivrier d'Amérique (French), faux poivrier (French), poivre du Brésil (French), poivre rose (French), enceint (French), warui (Fijian), poivre marron (French), naniohilo (Hawaiian), wilelaiki (Hawaiian), copal (Spanish), baie rose (French)

**Synonym**

**Similar species**

**Summary**

Native to Argentina, Paraguay and Brazil, Schinus terebinthifolius is a pioneer of disturbed sites, but is also successful in undisturbed natural environments. It is an aggressive evergreen shrub or small tree, 3-7 metres in height that grows in a variety of soil types and prefers partial sun. Schinus terebinthifolius produces shady habitats that repel other plant species and discourage colonisation by native fauna and alter the natural fire regime. Its fruit has a 'paralysing effect' on birds and even grazing animals when ingested. Schinus terebinthifolius seeds are dispersed by birds and mammals and it readily escapes from garden environments. It is planted as both an ornamental and shade tree and has many uses.

$view this species on IUCN Red List

**Species Description**

*Schinus terebinthifolius* is an evergreen shrub or small tree, 3-7 metres tall or more. The odd-pinnately compound leaves are alternately arranged on branches and range from 8 to 17cm in length. Each leaf is composed of usually 4 or 6, or sometimes more, rounded and often toothed lateral leaflets, arranged in pairs along a narrowly winged leaf axis, or rachis, and a single, terminal leaflet. When crushed, the leaves produce a pungent aroma that has been variously described, from “peppery” to “turpentine-like” (Ferriter 1997; Tomlinson, 1980).

The flowers are produced in showy, branched panicles, 2-11cm long, which arise from the axils of leaves near the ends of stems. In addition to flowers, the inflorescences also bear triangular to lanceolate, leaf-like bracts with ciliate margins. Both male and female flowers occur on stalks, or pedicels, 1mm long and essentially have the same structure: 5 small, green, triangular sepals with ciliate margins; 5 small, white, glabrous, ovate petals; 10 stamens concentrically arranged in 2 series of 5, the outer series being longer; a lobed disc at the base of the stamens; and a single-chambered, or unilocular, ovary with 3 short styles. However, in male flowers, the ovary, or pistillode, is non-functional, and in female flowers, the staminodes are sterile. On female trees, flowering is followed by the production of bright red, fleshy, spherical drupes, often referred to as "berries", each 5-6mm in diameter and containing a single seed (Ferriter 1997).
Notes
There are five varieties listed within the South American distribution: *S. terebinthifolius* var. *terebinthifolius* – from Venezuela to Argentina; *S. terebinthifolius* var. *acutifolius* – southern Brazil and Paraguay to Chile; *S. terebinthifolius* var. *pohlianus* (the most common variety of the species) – southern Brazil, Paraguay, and northern Argentina; *S. terebinthifolius* var. *raddianus* – south central Brazil; and *S. terebinthifolius* var. *rhoffolius* – south central Brazil (Barkley, 1944; Barkley, 1957) in Cuda et al, (2006).

Lifecycle Stages
Flowering and fruiting phenomena in Brazilian pepper shows distinct periodicity. The main flowering period, September to October, is marked by the production of copious flowers from axillary inflorescences developing at the ends of leaf branches. A second flowering period (March-May) occurs in less than 10% of the population (Ewel et. al., 1982, in Ferriter 1997). Fruit production occurs during the winter (November to February), at which time the branches of female trees are heavily laden with red fruits while male trees remain barren. Ewel et. al. (1982) observed that ripe fruits are retained on a tree for up to 8 months (Ferriter 1997). The survivorship of naturally established seedlings is very high ranging from 66-100%. It is extremely rare to encounter such high survivorship in weedy species. The tenacity of its seedlings makes *S. terebinthifolius* an especially difficult species to compete with, as its seedlings seem to survive for a very long time in the dense shade of an older stand where they grow, although slowly, while in openings they grow very fast (Ewel et al. 1982 in Ellers, 2001).

Uses
*Schinus terebinthifolius* has been used as a garden plant in many countries. It is planted as both an ornamental and shade tree. The bark serves as a source of tannins and the bright red berries and leaves are used in the making of Christmas Wreaths. The berries are also used as a spice called pink peppercorn. The wood of Brazilian pepper is used in construction, as stakes, posts, and railway sleepers. Virtually all parts of this tropical tree have been used for medicinal purposes throughout the tropics including its leaves, bark, fruit, seeds, resin and oleoresin or balsam. Brazilian peppertree is also considered an important nectar and pollen source by the bee industry in the United States and Hawaii (Cuda et al., 2006).

Habitat Description
*Schinus terebinthifolius* occurs in sub-tropical areas between latitudes 15° and 30° N and S in many countries (Hosking et al. 2003). It is a pioneer species and an aggressive invader of mesic and wet lowland environments (Smith, 1985). It is commonly found in disturbed sites, such as highway right-of-ways, canals, drained wetlands, and fallow fields and farmlands but is also successful in undisturbed natural environments including pinelands, hammocks, and mangroves (Woodall, 1982; Cuda et al. 2006). *S. terebinthifolius* prefers partial sun to full sun, grows in a variety of soil types (Woodall, 1982; Larocha, 1994a), and is known to be fairly tolerant to shade, high salinity, flooding, and fire (Ewel, 1979; Myltinger and Williamson, 1987; Doren et al. 1991) in Cuda et al. (2006).

Reproduction
*Schinus terebinthifolius* is a dioecious plant which means that the flowers are either male (staminate) or female (pistillate), and the sexes occur on male and female trees. However, a small number of trees have been observed producing bisexual (“complete”) flowers or having both unisexual flowers occurring on the same individual (Ferriter 1997). Flowering generally occurs in the fall, while a small fraction flower in the spring (Ellers, 2001). Although in some locations, such as certain locations in Florida, flowering can occur year-round. Numerous small, white flowers occur in dense axillary panicles near the end of branches. Flowers produce copious amounts of pollen and nectar, and are primarily insect pollinated (Ewel et al. 1982 in Cuda et al. 2006). They are pollinated by diurnal insects, including a number of dipterans (especially a syrphid fly, *Palpada vinetorum*), hymenopterans, and lepidopterans. A massive number of bright red fruits are typically produced on the plants from November to February. Although most seed dispersal occurs shortly thereafter, some trees retain their fruits until July or August. The fruits are eaten and dispersed primarily by mammals and birds although some dispersal occurs by gravity or water. For example, raccoons (*Procyon lotor*) and opossums (*Didelphis virginianus*) consume fruits and contribute to seed dispersal. Although cattbirds (*Dumetilla carolinensis*) have been observed feeding on the fruits, robins (*Turdus migratorius* L.) are considered the most important avian seed dispersers. They consume large quantities of seed and spread them to habitats that Brazilian peppertree would never otherwise reach (Ewel et al. 1982 in Cuda et al. 2006). Like many hardwood species, Brazilian peppertree also is capable of resprouting from above-ground stems and crowns after damage from cutting, fire, or herbicide treatment. Resprouting also occurs from the roots with or without evidence of damage and often leads to the development of new daughter plants. Resprouting and suckering often is profuse and the growth rates of the sprouts are high, which contributes to the plant’s habit of forming dense clumps (Cuda et al. 2006).

Notes
There are five varieties listed within the South American distribution: *S. terebinthifolius* var. *terebinthifolius* – from Venezuela to Argentina; *S. terebinthifolius* var. *acutifolius* – southern Brazil and Paraguay to Chile; *S. terebinthifolius* var. *pohlianus* (the most common variety of the species) – southern Brazil, Paraguay, and northern Argentina; *S. terebinthifolius* var. *raddianus* – south central Brazil; and *S. terebinthifolius* var. *rhoffolius* – south central Brazil (Barkley, 1944; Barkley, 1957) in Cuda et al, (2006).

Lifecycle Stages
Flowering and fruiting phenomena in Brazilian pepper shows distinct periodicity. The main flowering period, September to October, is marked by the production of copious flowers from axillary inflorescences developing at the ends of leaf branches. A second flowering period (March-May) occurs in less than 10% of the population (Ewel et. al., 1982, in Ferriter 1997). Fruit production occurs during the winter (November to February), at which time the branches of female trees are heavily laden with red fruits while male trees remain barren. Ewel et. al. (1982) observed that ripe fruits are retained on a tree for up to 8 months (Ferriter 1997). The survivorship of naturally established seedlings is very high ranging from 66-100%. It is extremely rare to encounter such high survivorship in weedy species. The tenacity of its seedlings makes *S. terebinthifolius* an especially difficult species to compete with, as its seedlings seem to survive for a very long time in the dense shade of an older stand where they grow, although slowly, while in openings they grow very fast (Ewel et al. 1982 in Ellers, 2001).

Uses
*Schinus terebinthifolius* has been used as a garden plant in many countries. It is planted as both an ornamental and shade tree. The bark serves as a source of tannins and the bright red berries and leaves are used in the making of Christmas Wreaths. The berries are also used as a spice called pink peppercorn. The wood of Brazilian pepper is used in construction, as stakes, posts, and railway sleepers. Virtually all parts of this tropical tree have been used for medicinal purposes throughout the tropics including its leaves, bark, fruit, seeds, resin and oleoresin or balsam. Brazilian peppertree is also considered an important nectar and pollen source by the bee industry in the United States and Hawaii (Cuda et al., 2006).

Habitat Description
*Schinus terebinthifolius* occurs in sub-tropical areas between latitudes 15° and 30° N and S in many countries (Hosking et al. 2003). It is a pioneer species and an aggressive invader of mesic and wet lowland environments (Smith, 1985). It is commonly found in disturbed sites, such as highway right-of-ways, canals, drained wetlands, and fallow fields and farmlands but is also successful in undisturbed natural environments including pinelands, hammocks, and mangroves (Woodall, 1982; Cuda et al. 2006). *S. terebinthifolius* prefers partial sun to full sun, grows in a variety of soil types (Woodall, 1982; Larocha, 1994a), and is known to be fairly tolerant to shade, high salinity, flooding, and fire (Ewel, 1979; Myltinger and Williamson, 1987; Doren et al. 1991) in Cuda et al. (2006).

Reproduction
*Schinus terebinthifolius* is a dioecious plant which means that the flowers are either male (staminate) or female (pistillate), and the sexes occur on male and female trees. However, a small number of trees have been observed producing bisexual (“complete”) flowers or having both unisexual flowers occurring on the same individual (Ferriter 1997). Flowering generally occurs in the fall, while a small fraction flower in the spring (Ellers, 2001). Although in some locations, such as certain locations in Florida, flowering can occur year-round. Numerous small, white flowers occur in dense axillary panicles near the end of branches. Flowers produce copious amounts of pollen and nectar, and are primarily insect pollinated (Ewel et al. 1982 in Cuda et al. 2006). They are pollinated by diurnal insects, including a number of dipterans (especially a syrphid fly, *Palpada vinetorum*), hymenopterans, and lepidopterans. A massive number of bright red fruits are typically produced on the plants from November to February. Although most seed dispersal occurs shortly thereafter, some trees retain their fruits until July or August. The fruits are eaten and dispersed primarily by mammals and birds although some dispersal occurs by gravity or water. For example, raccoons (*Procyon lotor*) and opossums (*Didelphis virginianus*) consume fruits and contribute to seed dispersal. Although cattbirds (*Dumetilla carolinensis*) have been observed feeding on the fruits, robins (*Turdus migratorius* L.) are considered the most important avian seed dispersers. They consume large quantities of seed and spread them to habitats that Brazilian peppertree would never otherwise reach (Ewel et al. 1982 in Cuda et al. 2006). Like many hardwood species, Brazilian peppertree also is capable of resprouting from above-ground stems and crowns after damage from cutting, fire, or herbicide treatment. Resprouting also occurs from the roots with or without evidence of damage and often leads to the development of new daughter plants. Resprouting and suckering often is profuse and the growth rates of the sprouts are high, which contributes to the plant’s habit of forming dense clumps (Cuda et al. 2006).
General Impacts

Schinus terebinthifolius is an aggressive, rapidly colonizing invader of natural communities and disturbed habitats that shades out and displaces native vegetation, often forming dense monocultures that reduce the biological diversity of plants and animals in the invaded areas (Cuda et al., 2006; Donnelly & Walters, 2008; Ewe & Sternberg, 2003). It is known to displace native vegetation in Florida, California, Hawaii, Bermuda, the Bahamas, and Australia ((Randall 2000; Hight et al. 2002; Habeck et al. 1994) in Cuda et al., 2006). It is one of the most widespread and problematic invasive plants in Florida where it has infested nearly 280,000 ha of all terrestrial ecosystems (Cuda et al., 2006). Vast monospecific stands of it pose a significant threat to the mangrove swamp communities of the Florida Everglades where it threatens rare federal and/or state listed native species such as the Beach Jacquemontia (Jacquemontia reclinata), the Beach Star, Remirea maritime (Cole 1998, D.F. Austin, pers. comm. in Cuda et al., 2006), and the nesting habitat of the gopher tortoise (Gopherus polyphemus) (EPPO Reporting Service, 2005; Doren and Jones 1997 in Cuda et al., 2006). In Hawaii, S. terebinthifolius is negatively impacting several threatened and endangered plant species, including the Haleakala silverword (Argyroxyphium sandwicense macrocephalum), liiwaiti (Acaena exigua), and the mahoe tree (Alectryon micrococcus) (Hight et al. 2002 in Cuda et al., 2006). In Bermuda it invades upland margins of mangrove swamps (Mark and Lonsdale 2002). In Malta it invades the Mediterranean maquis community, which consists of mixed species, including olive (Olea europeana), bay laurel (Laurus nobilis) and the garrique. In the Bahamas, it is found on remote islands, where it may alter habitats and interfere with nesting sites (Moyroud 2000). S. terebinthifolius is believed to have allelopathic properties which aid its displacement of native species (Morgon & Overholt, 2005; Hargraves, 2008). Aqueous extracts from it were found to negatively affect the growth of two native plants commonly found in south Florida's natural areas, Bromus alba and Rivina humilis (Morgan and Overholt 2005, in EPPO Reporting Service 2005). Furthermore, S. terebinthifolius has been found to reduce the density and species diversity of native bird populations compared to uninvaded native pinelands and forest-edge habitats and the alter natural fire regimes because of its resultant increased shade (Cumutt, 1989 in Cuda et al., 2006). Brazilian peppertree was shown to have species-specific impacts on microalgae at the land–sea interface, making the possibility of a cascade effect on primary productivity, biodiversity, and community structure likely (Hight et al, 2003).

S. terebinthifolius is a relative of poison ivy and usually aggregates allergic skin reactions on contact (Florida Department of Environmental Protection). The high concentration of volatile and aromatic monoterpenes has been suggested to be the probable cause of respiratory problems associated with crushed fruits. Its highly toxic resin is found in its bark, leaves, and fruits (Lloyd et al. 1977). It contains active alkenyl phenols, e.g., urushiol, cardiol, which can cause contact dermatitis and inflammation in sensitive individuals (Lampe and Fagerstrom 1968, Tomlinson 1980) in Cuda et al., 2006). Persons sitting beneath S. terebinthifolius trees exhibited flu-like symptoms, and sneezing, sinus congestion, chest pains and acute headache (Morton 1969 1978, in Ferriter 1997). The AMA Handbook of Poisonous and Injurious Plants (Lampe and McCann 1985) reports that the tripterpenes found in the fruits can result in irritation of the throat, gastroenteritis, diarrhea, and vomiting in humans (Cuda et al., 2006). The ingested fruits have a ‘paralysing effect’ on birds and grazing animals such as horses are susceptible to its effects which can even prove fatal (Campello and Marsauli 1974, in Ferriter 1997; Morton, 1978 in Cuda et al., 2006). Intoxication of migratory robins, one of the principal avian disseminators of Brazilian peppertree, is not uncommon (Blassingame, 1955 in Cuda et al., 2006).
Management Info
"A Risk Assessment of Schinus terebinthifolius for Hawai'i and other Pacific islands was prepared by Dr. Curtis Daehler (UH Botany). The result is a score of 19 and a recommendation of: ""Likely to cause significant ecological or economic harm in Hawai'i and/or other parts of the world."""

When developing a management strategy it is important to consider the following biological traits of S. terebinthifolius: Its seeds are generally not viable after five months following dispersal. Water availability, especially rapid changes in water level, determines to a great extent seedling success. Its lack of success in California has been attributed to the short period of sufficient soil moisture needed for germination and root establishment. Seedlings grow very slowly and can survive in dense shade, exhibiting vigorous growth if the canopy is cleared (growing at rates of .03 to .05 metres per year (Ferrilier 1997). The creation of open habitat influences and increases the rate of spread of S. terebinthifolius. When S. terebinthifolius occurs in these open disturbed areas it provides a reservoir for the plant to spread to natural environments. This means that the restoration of disturbed ecosystems back to their natural state may control the spread of the weed to native ecosystems, as well as providing an opportunity to regain native environments. The plant is capable of resprouting from above-ground stems and root crowns and resprouting is also often profuse, with new growth originating from dormant and adventitious buds. The characteristics that make the Brazilian pepper plant a successful weed include (1) fast growth, (2) prolific seed production, (3) continuous shoot extension, (4) vigorous resprouting and (5) tolerance of a wide range of growing conditions (Ewel 1979, in Ferrilier 1997).

Preventative measures: Prohibiting the sale of Schinus terebinthifolius in nursery trade is an important method of slowing its spread. Florida has established a state law prohibiting the sale, cultivation, and transportation of it passed by the Florida legislature in 1990 (Cuda et al., 2006). Cooperation among public and private agencies as well as from neighboring states to reduce or prohibit its use as an ornamental and manage existing populations is highly advisable. (2001) Chemical: The use of herbicides is the most commonly used and cost-effective method for controlling S. terebinthifolius. S. terebinthifolius is sensitive to foliar applications of imazapyr, to foliar and cut surface applications of triclopyr, dicamba and glyphosate, to basal bark applications of triclopyr, and to soil application of tebuuthuron and hexazinone. It is not sensitive to 2,4-D. (Matooka et al., 2003 in Pier, 2010). Cut-stump treatment and basal bark treatment of triclopyr will effectively control it (Langland & Stocker, 2001 in Cuda et al., 2006). Foliar application of imazapyr and triclopyr is also effective and was found to achieve greater than 90% control. However, this application will effect non-target vegetation. Imazapyr has also been used in an application referred to as lacing which involves treating only half the foliage with a low volume back pack sprayer that has reportedly yielded 98% control (Phil Waller, BASF, pers. Comm. in Cuda et al., 2006). Basal soil applications of both hexazinone and tebuuthuron were also effective and resulted in 80-90% control (Laroche and Baker, 1994 in Cuda et al., 2006). Other treatments including basal bark application of a mixture of imazapyr and triclopyr are effective in an oil-based solution (BASF, 2005 in Cuda et al., 2001). Excellent control was reported with triclopyr ester/oil applied basal bark at 10% of product, triclopyr amine at 50% of product in water applied to cut surfaces, and imazapyr at 1% of product in water applied as foliar sprays (Matooka et al., 2003 in Pier, 2010).

Karmex is recommended when the only objective is to kill S. terebinthifolius seedlings. It is, compared to Hyvar or Velpal, less easily leached, making shallow root planted, like seedlings, more susceptible than deeper rooted ones. However, on many south Florida sites, feeder roots of existing plants may also be very close to the surface and may be affected. Hyvar and Velpal are as effective on seedlings as Karmex, but are recommended only where larger trees are involved. Where soil characteristics or root distributions preclude soil herbicides, Tordon is recommended as a foliar spray (Woodall 1982 in Ellers, 2001).

Biological: A variety of biological control agents have been investigated or released to control S. terebinthifolius. The most important include the Brazilian pepper thrip (Pseudophilothrips citri), the Brazilian pepper leafroller (Episimus utilis), the Brazilian pepper sawfly (Pseudopimpla americana), the torymid wasp Megascolia transvaalensis, and a variety of fungal pathogens (Cleary, 2003; Wheeler et al., 2001 in Cuda et al., 2006). A few biological control agents from southern South America that were screened and released in Hawaii in the 1950s and 1960s include E. utilis, Lithraeus annotatus, and Cramsonopha fusca. Of them two established but had little effect on Brazilian pepperweed (Julian and Griffiths, 1998 in Cuda et al., 2006).

E. utilis whose larval stages defoliate S. terebinthifolius, was released in Hawaii in the 1950s but did not yield effective control due to unsuitable biotic and abiotic conditions. It is being evaluated for use in other locations and results imply that it may be more successful (Mannrique et al., 2008a; Mannrique et al., 2008b; Mannrique et al., 2009a).

The torymid wasp M. transvaalensis attacks the drupes or seeds of S. terebinthifolius and damages them so they do not germinate. A study in Florida found that it damaged up to 31% of drupes in the major winter fruiting period and 76% in the minor spring fruiting phase. M. transvaalensis represents a potential biological control (Wheeler et al., 2001 in Cuda et al., 2006).

Fungi: Sphaerotheca tumefaciens, Rhizoctonia solani and C. purpureum are all known to infect S. terebinthifolius in different capacities and may also prove to be useful biological controls (Cuda et al., 2006). These fungi can be effective for controlling S. terebinthifolius include soil removal, prescribed burning, and flooding. Soil removal can be effective for eliminating Brazilian pepperweed and preventing its reestablishment but this method is labor intensive and costly. Prescribed burns have been used to control Brazilian pepperweed with mixed results (Cuda et al., 2006). The seeds fail to germinate following exposure to fire but plants readily resprout from crown and roots (Randall, 200 in Cuda et al., 2006). Repeated fires at 3 to 7 year intervals were found to slow its invasion but did not completely prevent re-establishment (Doren et al. 1991 in Cuda et al., 2006).

Hydro-leveling, a new technique, was tested in a mangrove forest restoration project in 2004. Hydro-leveling uses a high pressure stream of water to wash sediment from the spoil mound into the adjacent wetland and ditch. This was found to reduce but not eliminate adult Brazilian pepperweed. The technique was found to be effective when used alone in spring and early summer. Use Rodeo or cut stump application of 50% Arsenal where plants are growing in aquatic sites (Langland & Stocker, undated).

Additionally, Schinus terebinthifolius infestations may be detected with hyperspectral instrumentation or high resolution imagery by aerial observation to evaluate its infestation in inaccessible locations and aid in management program development (Lass & Prather, 2004; Pearlstine et al., 2005)."

FULL ACCOUNT FOR: Schinus terebinthifolius


Compiler: IUCN/SSC Invasive Species Specialist Group (ISSG)

Review: Under Revision

Publication date: 2011-02-23

ALIEN RANGE

[1] AMERICAN SAMOA
[1] BAHAMAS
[1] CUBA
[2] FRENCH POLYNESIA
[1] ISRAEL
[1] MARSHALL ISLANDS
[1] MAYOTTE
[1] NEW ZEALAND
[1] PUERTO RICO
[2] SAINT HELENA
[1] TURKS AND CAICOS ISLANDS
[2] UNITED STATES MINOR OUTLYING ISLANDS

[1] AUSTRALIA
[1] BERMUDA
[1] FIJI
[1] GUAM
[1] MALTA
[1] MAURITIUS
[2] NEW CALEDONIA
[1] NORFOLK ISLAND
[1] REUNION
[1] SAMOA
[1] VANUATU

Red List assessed species 8: CR = 6; EN = 2;

Alectryon macrococcus CR
Chamaesyce herbistii CR
Commidendrum robustum EN
Phyllostegia mollis CR
Chamaesyce deppeana CR
Coffea myrtifolia EN
Labordia cyrtandrae CR
Schiedea kaalae CR

BIBLIOGRAPHY

87 references found for Schinus terebinthifolius

Management information

Summary: A study on the use of a screening system to assess proposed plant introductions to Hawaii or other Pacific Islands and to identify high-risk species used in horticulture and forestry which would greatly reduce future pest-plant problems and allow entry of most nonpests.


Summary: The EPPO Reporting Service is a monthly information report on events of phytosanitary concern. It focuses on new geographical records, new host plants, new pests (including invasive alien plants), pests to be added to the EPPO Alert List, detection and identification methods etc. The EPPO Reporting Service is published in English and French. Available from: http://archives.eppo.org/EPPOReporting/2005/Rse-0509.pdf [Accessed 28 November 2005]


Langeland & Stocker, 2001. Control of Non-native Plants in Natural Areas of Florida


Summary: Uses Clidemia hirta in Hawaii as an eradication case study. Clidemia is in the Melastomataceae and somewhat similar ecologically to miconia.

Eradication case study in Turning the tide: the eradication of invasive species.


**GLOBAL INVASIVE SPECIES DATABASE**

**FULL ACCOUNT FOR:** *Schinus terebinthifolius*

---


McKay, Fernando; Oleiro, Marina; Cabrera Walsh, Guillermo; Gandolfo, Daniel; Cuda, James P.; Wheeler, Gregory S., 2009. Natural enemies of Brazilian Peppertree (Sapindales: Anacardiaceae) from Argentina: Their possible use for Biological Control in the USA. Florida Entomologist. 92(2). JUN 2009. 292-303.


**Summary:** Available from: http://www.fleppc.org/publications/Wildland%20Weeds/WW_Summer%202002.pdf [Accessed 9th February]


**Summary:** Data published to assist applicators experimenting with herbicides for weed control.


**Summary:** Available from: http://www.se-eppc.org/pubs/ww/WW_Spring2000.pdf [Accessed 9th February]


**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.


**Summary:** Eradication case study in Turning the tide: the eradication of invasive species.


**Summary:** Available from: http://library.fws.gov/CCPs/pelicanisland_draft.pdf [Accessed 9th February]


**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**


**Summary:** L’objectif de ce papier est d’identifier les zones prioritaires en matière de gestion des invasions biologiques ? La R’union en modélisant la distribution actuelle et potentielle d’une s’election de plantes parmi les plus envahissantes.

---


Pag. 7

Summary: Tableau synthétique des plantes exotiques de Mayotte classées en fonction de leur niveau d'envahissement.

Conservatoire Botanique National De Mascarin [SOLVIET V. coord.] 2007. Schinus terebinthifolius. Index de la flore vasculaire de la R?union (Trach7ophytes); statuts, menaces et protections.- Version 2007.1

Summary: De nombreuses informations utiles.


Summary: Base de donn?es sur le flore de Polyn?sie Fran?aise.


Summary: Consequences to the biodiversity of New Caledonia of the introduction of plant and animal species.

Global Compendium of Weeds (GCW), 2007. Schinus terebinthifolius (Anacardiaceae)


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.


Summary: Article focusing on the interaction between alien birds and plants describing many examples and the ecological feedback that takes place between an introduced bird and plants it unknowingly introduces as food.


Spector, Tova; Putz, Francis E., 2006. Biomechanical plasticity facilitates invasion of maritime forests in the southern USA by Brazilian pepper (Schinus terebinthifolius) Biological Invasions. 8(2), MAR 2006. 255-260.


