

Trifolium repens

System: Terrestrial

Kingdom	Phylum	Class	Order	Family
Plantae	Magnoliophyta	Magnoliopsida	Fabales	Fabaceae

Common name ladino clover (English), dutch clover (English), white clover (English), trébol blanco (Spanish), trevo-branco (Portuguese), white dutch clover (English), ladino white clover (English), Weißklee (German), trèfle blanc (French), trèfle rampant (French)

Synonym *Trifolium repens*, L. var. *nigricans* G. Don
Trifolium repens, L. var. *repens*
Amoria repens, (L.) C. Presl
Trifolium biasoletii, Steud. & Hochst.
Trifolium macrorrhizum, Boiss.
Trifolium occidentale, Coombe
Trifolium repens, var. *rubescens* hort.
Trifolium repens, var. *biasoletii*
Trifolium repens, var. *giganteum*
Trifolium repens, var. *latum*
Trifolium repens, var. *macrorrhizum*
Trifolium repens, var. *pallescens*
Trifolium repens, var. *atropurpureum* hort.

Similar species

Summary *Trifolium repens* is a perennial legume that originated in Europe/East Asia and has become one of the most widely distributed legumes in the world. It has naturalized in most of North America, Central and South America, Australia and New Zealand.



[view this species on IUCN Red List](#)

Species Description

Trifolium repens has a prostrate, stoloniferous growth habit with leaves that are composed of three leaflets, which sometimes have a crescent-shaped mark on the upper surface. Leaves and roots develop along the stolon at the nodes. The flower heads, each consisting of 40 to 100 florets which are white in colour, are borne on long stalks from the leaf axils (USDA-NRCS, 2010b).

Lifecycle Stages

Trifolium repens is a perennial legume (Caradus, 1994).



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FULL ACCOUNT FOR: *Trifolium repens*

Uses

Trifolium repens is reported to contain both poison and healing abilities. Its leaves contain the chemical genistein which is reported to have ethnobotanical properties.

T. repens is also used as a forage crop.

Habitat Description

Trifolium repens, in the United States, thrives best in a cool, moist climate in soils with ample lime, phosphate, and potash. In general, *T. repens* is best adapted to clay and silt soils in humid and irrigated areas but also grows successfully on sandy soils with a high water table or irrigated droughty soils when adequately fertilized. *T. repens* seldom roots deeper than 2 feet, which makes it adapted to shallow soils when adequate moisture is available (USDA-NRCS, 2010b). In New Zealand, *T. repens* is frost tolerant down to -8 degrees Celsius (Caradus, 1994). In Australia it is common between the alpine and montane areas of the Australian Alps. It can be found up just over 2000m altitude and was introduced to help reduce the impacts of soil erosion (Johnston & Pickering, 2001). On the Amsterdam Islands it has been found to be a host for exotic aphid species, which could potentially affect endemic species (Hulle *et al*, 2010).

Management Info

Two varieties of *Trifolium repens*; *T. repens* L. var. *nigricans* G. Don and *T. repens* L. var. *repens*, are known to be established alien species and/or found in the Japanese wild. Because of this, mitigation could be undertaken under the Invasive Alien Species Act, 2004 (Mito & Uesugi, 2004). However *T. repens* is so widespread within natural vegetation in the Australian Alps, that control is considered impracticable (MacDougall *et al*, 2005). Pickering & Hill (2007) further establish this by mentioning that although the feasibility of controlling vegetative regeneration is moderate, there is little chance of controlling the seed bank.

Principal source:

Compiler: IUCN SSC Invasive Species Specialist Group (ISSG) with support from the Overseas Territories Environmental Programme (OTEP) project XOT603, a joint project with the Cayman Islands Government - Department of Environment

Review:

Publication date: 2010-06-08

ALIEN RANGE

[2] AUSTRALIA	[1] CANADA
[1] CENTRAL AMERICA	[1] CHILE
[1] FALKLAND ISLANDS (MALVINAS)	[1] FRENCH SOUTHERN TERRITORIES
[1] GREENLAND	[1] JAPAN
[1] MEXICO	[1] NEW ZEALAND
[1] SOUTH AMERICA	[1] SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS
[1] TAIWAN	[2] UNITED STATES



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FULL ACCOUNT FOR: *Trifolium repens*

[1] WEST INDIES

BIBLIOGRAPHY

19 references found for *Trifolium repens*

Management information

[Auld, Bruce; Hirohiko Morita; Tomoko Nishida; Misako Ito and Peter Michael, 2003. Shared exotica: Plant invasions of Japan and south eastern Australia. *Cunninghamia* \(2003\) 8\(1\): 147-152](#)

Summary: Available from: http://www.rbg Syd.nsw.gov.au/_data/assets/pdf_file/0008/58904/Cun8Aul147.pdf [Accessed 28 June 2010]

[Champion, P. D. and P. N. Reeves, 2009. Factors causing dune ephemeral wetlands to be vulnerable to weed invasion. *DOC Research & Development Series* 310](#)

Summary: Available from: <http://conservation.govt.nz/upload/documents/science-and-technical/drds310entire.pdf> [Accessed 28 June 2010]

[IUCN/SSC Invasive Species Specialist Group \(ISSG\), 2010. A Compilation of Information Sources for Conservation Managers.](#)

Summary: This compilation of information sources can be sorted on keywords for example: Baits & Lures, Non Target Species, Eradication, Monitoring, Risk Assessment, Weeds, Herbicides etc. This compilation is at present in Excel format, this will be web-enabled as a searchable database shortly. This version of the database has been developed by the IUCN SSC ISSG as part of an Overseas Territories Environmental Programme funded project XOT603 in partnership with the Cayman Islands Government - Department of Environment. The compilation is a work under progress, the ISSG will manage, maintain and enhance the database with current and newly published information, reports, journal articles etc.

[Mito, Toshikazu and Tetsuro Uesugi, 2004. Invasive Alien Species in Japan: The Status Quo and the New Regulation for Prevention of their Adverse Effects. *Global Environmental Research* 8\(2\)/2004: 171-191](#)

Summary: Available from: <http://www.airies.or.jp/publication/ger/pdf/08-02-08.pdf> [Accessed 28 June 2010]

General information

[Bear, Roxana; Hill, Wendy; Pickering, Catherine M., 2007. Distribution and diversity of exotic plant species in montane to alpine areas of Kosciuszko National Park. *Cunninghamia*. 9\(4\). 2006. 559-570.](#)

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[Caradus, J. R., 1994. Frost tolerance of *Trifolium* species. *New Zealand Journal of Agricultural Research*, 1994, Vol. 38: 157-162](#)

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Summary: Available from: http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=26206 [Accessed 28 June 2010]

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[McDougall, Keith L.; John W. Morgan; Neville G. Walsh; Richard J. Williams, 2005. Plant invasions in treeless vegetation of the Australian Alps. *Perspectives in Plant Ecology, Evolution and Systematics* 7 \(2005\) 159-171](#)

[Miyawaki, Shigenari and Izumi Washitani, 2003. Invasive Alien Plant Species in Riparian Areas of Japan: The Contribution of Agricultural Weeds, Revegetation Species and Aquacultural Species. *Global Environmental Research* 8\(1\)/2004: 89-101](#)

Summary: Available from: <http://ns.airies.or.jp/publication/ger/pdf/08-01-09.pdf> [Accessed 28 June 2010]

[Philcox, D., 1962. Recent Records for the Flora of South Georgia. *Kew Bulletin*, Vol. 16, No. 2 \(1962\), pp. 243-245](#)

[Pickering, Catherine and Wendy Hill, 2007. Roadside Weeds of the Snowy Mountains, Australia. *Mountain Research and Development* Vol 27 No 4 Nov 2007](#)

[Swenson, Ulf; Tod F. Stuessey; Marcelo Baeza and Daniel, J. Crawford., 1997. New and Historical Plant Introductions, and Potential Pests in the Juan Fernandez Islands, Chile! *Pacific Science* \(1997\), vol. 51, no. 3: 233-253](#)

[USDA-ARS, 2010. Taxon: *Trifolium repens* L. National Genetic Resources Program. *Germplasm Resources Information Network - \(GRIN\) \[Online Database\]. National Germplasm Resources Laboratory, Beltsville, Maryland.*](#)

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[Wu, Shan-Huah; Shu-Miaw Chaw and Marcel Rejmánek, Naturalized Fabaceae \(Leguminosae\) species in Taiwan: the first approximation. Botanical Bulletin Academia Sinica \(2003\) 44: 59-66](#)

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