

***Acacia dealbata***

**System:** Terrestrial

Kingdom	Phylum	Class	Order	Family
Plantae	Magnoliophyta	Magnoliopsida	Fabales	Fabaceae

**Common name**

**Synonym**

**Similar species**

**Summary**



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

**Principal source:**

**Compiler:**

**Review:**

**Publication date:**

**ALIEN RANGE**

[1] CHILE

[1] PORTUGAL

[1] SPAIN

[1] ITALY

[1] SOUTH AFRICA

**Red List assessed species 28: VU = 2; NT = 1; LC = 25;**

[Arbutus unedo](#) LC

[Chorthippus brunneus](#) LC

[Crataegus monogyna](#) LC

[Cytisus striatus](#) LC

[Erica arborea](#) LC

[Foeniculum vulgare](#) LC

[Heteromirafr ruddi](#) VU

[Pinus pinaster](#) LC

[Pteridium aquilinum](#) LC

[Pyrus cordata](#) LC

[Quercus ilex](#) LC

[Quercus robur](#) LC

[Ranunculus repens](#) LC

[Ulex gallii](#) LC

[Asphodelus bento-rainhae](#) VU

[Cistus psilosepalus](#) LC

[Cytisus multiflorus](#) LC

[Digitalis purpurea](#) LC

[Erica cinerea](#) LC

[Frangula alnus](#) LC

[Hylaeus signatus](#) LC

[Plantago lanceolata](#) LC

[Pterospartum tridentatum](#) LC

[Quercus canariensis](#) NT

[Quercus pyrenaica](#) LC

[Quercus suber](#) LC

[Rumex acetosella](#) LC

[Vicia sativa](#) LC

**BIBLIOGRAPHY**

**34** references found for *Acacia dealbata*

**Managment information**

[Ahmad S, Lisborg M, Moshøj CM, Gausset O, de Neergaard AF \(2003\) Future Prospects and Limitations for the Sustainable Management of Wattle and Its Possible Alternatives.](#)

[https://sluse.dk/project/South-Africa\\_future\\_prospects\\_and\\_limitations\\_for\\_the\\_sustainable\\_management\\_of\\_wattle.pdf](https://sluse.dk/project/South-Africa_future_prospects_and_limitations_for_the_sustainable_management_of_wattle.pdf)

Global Invasive Species Database (GISD) 2025. Species profile *Acacia dealbata*. Available from:

<https://iucngisd.org/gisd/species.php?sc=696> [Accessed 05 February 2025]

- Vundla TS (2018) Using remote sensing to estimate the impacts of wattle species on native grass vegetation. PHD Thesis. University of KwaZulu-Natal (Pietermaritzburg).
- Aguilera N, Becerra J, Guedes LM, Villaseñor-Parada C, González L, Hernández V (2015) Allelopathic effect of the invasive *Acacia dealbata* Link (Fabaceae) on two native plant species in south-central Chile/Efecto alelopático de la invasora *Acacia dealbata* Link (Fabaceae) en dos especies de plantas nativas del centro-sur de Chile. *Gayana. Botánica* 72: 231.
- Aguilera N, Becerra J, Villaseñor-Parada C, Lorenzo P, González L, Hernández V (2015) Effects and identification of chemical compounds released from the invasive *Acacia dealbata* Link. *Chemistry and Ecology* 31: 479-493.
- Aguilera N, Guedes LM, Becerra J, Baeza C, Hernández V (2015) Morphological effects at radicle level by direct contact of invasive *Acacia dealbata* Link. *Flora-Morphology, Distribution, Functional Ecology of Plants* 215: 54-59. <https://doi.org/10.1016/j.flora.2015.07.007>
- Carballeira A, Reigosa MJ (2017) Studies on the Allelopathic Potential of *Acacia dealbata* Link. Allelopathic Potential Produced During Litter Bag Decomposition of Plant residues in the Field. *Journal of Allelochemical Interactions* 3: 19-35. [https://www.researchgate.net/profile/Manuel-Reigosa-Roger/publication/319986907\\_Studies\\_on\\_the\\_Allelopathic\\_Potential\\_of\\_Acacia\\_dealbata\\_Link\\_Allelopathic\\_Potential\\_Produced\\_During\\_Litter\\_Bag\\_Decomposition\\_of\\_Plant\\_residues\\_in\\_the\\_Field/links/59c515a6aca272c71bb8d2e2/2/2Studies-on-the-Allelopathic-Potential-of-Acacia-dealbata-Link-Allelopathic-Potential-Produced-During-Litter-Bag-Decomposition-of-Plant-residues-in-the-Field.pdf](https://www.researchgate.net/profile/Manuel-Reigosa-Roger/publication/319986907_Studies_on_the_Allelopathic_Potential_of_Acacia_dealbata_Link_Allelopathic_Potential_Produced_During_Litter_Bag_Decomposition_of_Plant_residues_in_the_Field/links/59c515a6aca272c71bb8d2e2/2/2Studies-on-the-Allelopathic-Potential-of-Acacia-dealbata-Link-Allelopathic-Potential-Produced-During-Litter-Bag-Decomposition-of-Plant-residues-in-the-Field.pdf)
- Coetzee BWT, Van Rensburg BJ, Robertson MP (2007) Invasion of grasslands by silver wattle, *Acacia dealbata* (Mimosaceae), alters beetle (Coleoptera) assemblage structure. *African entomology* 15: 328-339. <https://doi.org/10.4001/1021-3589-15.2.328>
- García RA, Fuentes-Ramírez A, Pauchard A (2012) Effects of two nitrogen-fixing invasive plants species on soil chemical properties in south-central Chile. *Gayana Botánica* 69: 189-192.
- González-Muñoz N, Costa-Tenorio M, Espigares T (2012) Invasion of alien *Acacia dealbata* on Spanish *Quercus robur* forests: Impact on soils and vegetation. *Forest Ecology and Management* 269: 214-221. <https://doi.org/10.1016/j.foreco.2011.12.026>
- Guisande-Collazo A, González L, Souza-Alonso P (2016) Impact of an invasive nitrogen-fixing tree on arbuscular mycorrhizal fungi and the development of native species. *AoB Plants* 8. <https://doi.org/10.1093/aobpla/plw018>
- Kamutando CN, Vikram S, Kamgan-Nkuekam G, Makhalyane TP, Greve M, Le Roux JJ, Richardson DM, Cowan DA, Valverde A (2019) The functional potential of the rhizospheric microbiome of an invasive tree species, *Acacia dealbata*. *Microbial ecology* 77: 191-200. <https://doi.org/10.1007/s00248-018-1214-0>
- Kamutando CN, Vikram S, Kamgan-Nkuekam G, Makhalyane TP, Greve M, Le Roux JJ, Richardson DM, Cowan D, Valverde A (2017) Soil nutritional status and biogeography influence rhizosphere microbial communities associated with the invasive tree *Acacia dealbata*. *Scientific reports* 7: 1-9. <https://doi.org/10.1038/s41598-017-07018-w>
- Lazzaro L, Giuliani C, Fabiani A, Agnelli AE, Pastorelli R, Lagomarsino A, Benesperi R, Calamassi R, Foggi B (2014) Soil and plant changing after invasion: the case of *Acacia dealbata* in a Mediterranean ecosystem. *Science of the total environment* 497: 491-498. <https://doi.org/10.1016/j.scitotenv.2014.08.014>
- Lorenzo P, Palomera-Pérez A, Reigosa MJ, González L (2011) Allelopathic interference of invasive *Acacia dealbata* Link on the physiological parameters of native understory species. *Plant Ecology* 212: 403-412. <https://doi.org/10.1007/s11258-010-9831-9>
- Lorenzo P, Pazos-Malvido E, González L, Reigosa MJ (2008) Allelopathic interference of invasive *Acacia dealbata*: physiological effects. *Allelopathy Journal* 22: 64-76. [https://www.researchgate.net/profile/Luis-Gonzalez-164/publication/235430652\\_Allelopathic\\_interference\\_of\\_invasive\\_Acacia\\_dealbata\\_Physiological\\_effects/links/542d62550cf277d58e8cc289/Allelopathic-interference-of-invasive-Acacia-dealbata-Physiological-effects.pdf](https://www.researchgate.net/profile/Luis-Gonzalez-164/publication/235430652_Allelopathic_interference_of_invasive_Acacia_dealbata_Physiological_effects/links/542d62550cf277d58e8cc289/Allelopathic-interference-of-invasive-Acacia-dealbata-Physiological-effects.pdf)
- Lorenzo P, Pazos-Malvido E, Reigosa MJ, González L (2010) Differential responses to allelopathic compounds released by the invasive *Acacia dealbata* Link (Mimosaceae) indicate stimulation of its own seed. *Australian Journal of Botany* 58: 546-553. <https://doi.org/10.1071/BT10094>
- Lorenzo P, Pazos-Malvido E, Rubido-Bará M, Reigosa MJ, González L (2012) Invasion by the leguminous tree *Acacia dealbata* (Mimosaceae) reduces the native understory plant species in different communities. *Australian Journal of Botany* 60: 669-675. <https://doi.org/10.1071/BT12036>
- Lorenzo P, Pereira CS, Rodríguez-Echeverría S (2013) Differential impact on soil microbes of allelopathic compounds released by the invasive *Acacia dealbata* Link. *Soil Biology and Biochemistry* 57: 156-163. <https://doi.org/10.1016/j.soilbio.2012.08.018>
- Lorenzo P, Rodríguez-Echeverría S, Freitas H (2013) No allelopathic effect of the invader *Acacia dealbata* on the potential infectivity of arbuscular mycorrhizal fungi from native soils. *European journal of soil biology* 58: 42-44. <https://doi.org/10.1016/j.ejsobi.2013.06.003>
- Lorenzo P, Rodríguez-Echeverría S, González L, Freitas H (2010) Effect of invasive *Acacia dealbata* Link on soil microorganisms as determined by PCR-DGGE. *Applied Soil Ecology* 44: 245-251. <https://doi.org/10.1016/j.apsoil.2010.01.001>
- Lorenzo P, Rodríguez J, González L, Rodríguez-Echeverría S (2017) Changes in microhabitat, but not allelopathy, affect plant establishment after *Acacia dealbata* invasion. *Journal of Plant Ecology* 10: 610-617. <https://doi.org/10.1093/jpe/rtw061>
- Montesinos D, Correia M, Castro S, French K, Rodríguez-Echeverría S (2018) Diminishing importance of elaiosomes for acacia seed removal in non-native ranges. *Evolutionary Ecology* 32: 601-621. <https://doi.org/10.1007/s10682-018-9959-y>
- Rodríguez-Echeverría S, Afonso C, Correia M, Lorenzo P, Roiloa SR (2013) The effect of soil legacy on competition and invasion by *Acacia dealbata* Link. *Plant Ecology* 214: 1139-1146. <https://doi.org/10.1007/s11258-013-0238-2>
- Rodríguez J, Thompson V, Rubido-Bará M, Cordero-Rivera A, González L (2019) Herbivore accumulation on invasive alien plants increases the distribution range of generalist herbivorous insects and supports proliferation of non-native insect pests. *Biological Invasions* 21: 1511-1527. <https://doi.org/10.1007/s10530-019-01913-1>
- Souza-Alonso P, González L, Cavaleiro C (2014) Ambient has become strained. Identification of *Acacia dealbata* Link volatiles interfering with germination and early growth of native species. *Journal of chemical ecology* 40: 1051-1061. <https://doi.org/10.1007/s10886-014-0498-x>
- Souza-Alonso P, Guisande-Collazo A, González L (2015) Gradualism in *Acacia dealbata* Link invasion: impact on soil chemistry and microbial community over a chronological sequence. *Soil Biology and Biochemistry* 80: 315-323. <https://doi.org/10.1016/j.soilbio.2014.10.022>
- Souza-Alonso P, Novoa A, González L (2014) Soil biochemical alterations and microbial community responses under *Acacia dealbata* Link invasion. *Soil Biology and Biochemistry* 79: 100-108. <https://doi.org/10.1016/j.soilbio.2014.09.008>
- van der Merwe J (2007) The impact of silver wattle (*Acacia dealbata*) on small mammal assemblages in the Sani Pass region of the Drakensberg. Honours Thesis. Stellenbosch University. <http://hdl.handle.net/123456789/263>



# GLOBAL INVASIVE SPECIES DATABASE

FULL ACCOUNT FOR: *Acacia dealbata*

---

## General information

da Silva LP, Heleno RH, Costa JM, Valente M, Mata VA, Gonçalves SC, da Silva AA, Alves J, Ramos JA (2019) Natural woodlands hold more diverse, abundant, and unique biota than novel anthropogenic forests: a multi-group assessment. *European Journal of Forest Research* 138: 461-472. <https://doi.org/10.1007/s10342-019-01183-5>

Fuentes-Ramírez A, Pauchard A, Cavieres LA, García RA (2011) Survival and growth of *Acacia dealbata* vs. native trees across an invasion front in south-central Chile. *Forest Ecology and Management* 261: 1003-1009.

Fuentes-Ramírez A, Pauchard A, Marticorena A, Sánchez P (2010) Relationship between the invasión of *Acacia dealbata* Link (Fabaceae: Mimosoideae) and plant species richness in South-Central Chile. *Gayana Botanica* 67: 188-197.

<https://www.cabdirect.org/cabdirect/abstract/20113078413>

Montesinos D, Castro S, Rodríguez-Echeverría S (2016) Two invasive acacia species secure generalist pollinators in invaded communities. *Acta Oecologica* 74: 46-55. <https://doi.org/10.1016/j.actao.2016.06.002>

Rodríguez J, Cordero-Rivera A, González L (2020) Characterizing arthropod communities and trophic diversity in areas invaded by Australian acacias. *Arthropod-Plant Interactions* 14: 531-545. <https://doi.org/10.1007/s11829-020-09758-5>

Zalba, S. M & Villamil, C.B, 2002. Woody plant invasion in relictual grasslands. *Biological Invasions* 4: 55-72