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Hakea lower classifications

Australian species Hakea: identification and information. Author: Robyn Barker Summary Hakea is an Australian endemic genus of about 150 species and is found in almost all ecological habitats but with a preponderance of species in the south-west of Western Australia and along the east coast. Some species are invasive, particularly in South Africa and New Zealand and some Mediterranean countries. They are variously referred to as bums or suggetti, or as pensatura, cricket ball or frog hakeas, to name just a few of their most easily recognized characteristics. The species of Hakea are often confused with Grevillea closely related and a quick guide to their distinction is given below along with access to a simple key that distinguishes between the Generate. The fact sheets were produced for each species and these are accessible through the key through the list of species (which includes all the accepted names and synonyms) or through a list of common names. Each information sheet has the taxonomic treatment of the base taken from the account of the R.M.Barker flora, L. Haegi and W.R.Barker in Australia's flora Volume 17b. This is been supplemented with additional information and links of this author with a series of images for each species, mainly from the photographs of Bill Barker and Ivan Holliday. At the time of the web links on this information sheet they are updated, but unfortunately these changes and apologies are extended to those who are no longer operational. While there is a statement of general distribution for each species distribution maps were not included in the given cards. You can instead access the distribution within Australia through the Australian Virtual Herbarium, the latest version of which also allows the mapping of subspecies and varieties. Hakea and Grevillea? The shiny key
À V1.0 distinction between species of Hakea and Grevillea is often difficult because © are closely related and can eventually be combined. Most of the characteristics that define both genders are present in a small subset of the other species generally. The majority of the species of Hakea has leaves in which both surfaces are similar in appearance or, if they are terete, they are usually without a groove or groove obvious for their entire length. The styles and ovaries, with only 1 or 2 exceptions exceptions, hairless in Hakea, but so may be at Grevillea; In this case the presence of hairs can be taken as an indication of Grevillea. In addition to suggetti, the species of Hakea have sessile ovary ovaries and then to stipita is also an indication of Grevillea. And the fruits that are woody and kept for a bit 'of time in the plant in a state not open are an immediate indication of Hakea, since the fruits © Grevillea are not woody and usually maintained in the plant. The fruits of Wood Hakea when opening usually reveal seeds with a wing asymmetric sports while Grevillea seeds are symmetrically winged or non-winged at all. This quick key, which is not shown in any way, can help you decide if the material you're trying to identify is a Hakea or Grevillea. Identification of species of Hakea À € À Issid Key V1.0 This is an interactive web-based key for all species currently known to Hakea (Proteaceae), a genre which is limited to Australia, apart from the species they are invasive elsewhere. The key opens with all functionality 163 listed for identification purposes. It is recommended to initially use the quick subset of 41 characters. If these 41 funzionalità prove inadequate to separate species, other functionality can be used but are considered less reliable than the rapid subset. Some of the extra features, such as And flowering time must be used carefully as they can be modified with time and place and if it is a cultivated sample or growth in a natural way. Any measurement used inside the key key Based on dry herbal material and while a bit of indemnity was done for this, they can still be lower than those found in fresh or cultivated material. The text base for information sheets came from the treatment of the species of R.M.Barker, L. Haegi and W.R.Barker in the flora of Australia Volume 17b, now also available online. Direct access to the compiled informal cards for each species is available through the list of species and synonyms and through the list of common names. The photographs were mainly provided by Bill Barker and Ivan Holliday, or as recognized. The illustrations of the line are from Beth Chandler or Kevin Thiele. The author would be happy to listen to any error or omissions or suggestions for improvements. List of species List of common names Glossary cultivar and cultivation References Recognition The financing for the construction of this key was provided by the study of Australian biological resources (ARRS). The base of the text for information sheets, with a fusion software of facts, has come from the treatment of the species of R.M.Barker, L. Haegi and W.R.Barker in the flora of Australia Volume 17b, now also available online. The work was carried out for most of the state of the state of Southern Australia (AD). Access to their structures is recognized with gratitude. A little time (February to April 2009) has also been spent for this project at the Allan Herbarium (CHR) in Christchurch, New Zealand and once again the use of their structures is recognized. The photographs of the species were mainly provided by Bill Barker and Ivan Holliday, but also from other recognized in the text that accompanies photography. All these photographs are copyright and the permission should be sought by the copyright holder for their use in any other publication. The designs of functional lines are of bet chandler with the exception of some that have been adapted from the existing illustrations of Kevin Thiele for the original glossy key to Australia flowering plant families. Citation suggested R.M.BARKER (2010). Australian species HAKEA: identification and information. Version 1. An Interactive Lucid Key and Information System system at [Accessible on the current date in day Month year] Email Contact: Herbarium state of the gain of the Southern Australlia of Plants in the Family Proteaceae Endema for Australlia Hakea Hakea Laurina (Pin-Cushion Hakea) Scientific Classification Kingdom: Plantae Clade: Trachehytetes Clade: Angiosperms Clade: Eudicots Order: Proteales Family: Proteaceae Subfamily: Grevioideae Tribe: Grevi-andoideae Tribe: Embothireae Subtribe : Hakeinae Genus: HakeaSchrad. & J.c.Wendl. [1] [2] Type species species Hakea Teretifolia See the text Hakea is a kind of about 150 species of plants in the Proteaceae family and are endemic in Australia. They are shrubs or small trees with sometimes flat leaves, otherwise circular in the cross section in which case they are sometimes divided. The flowers are usually arranged in groups in foliar axils and resemble those of other genres, in particular Grevillea. Hakeas have woody fruit that distinguishes them from Grevilleas who have non-woody fruit that releases seeds while mature. HakeaS are found in every state of Australia with the highest diversity that is located in the south-west of Western Australia. Description Systems in the genus Hakea are shrubs or small trees. Some species have flat leaves, while others have leaves that are needle, in which case they are sometimes divided and sometimes they have a groove on the lower surface. The flowers are arranged in groups in leaf axles and are surrounded by bratters when in gem. Flowers have male parts that females and are borne by a short stem pedicel. Sepali and petals, jointly called tepali, form a curved tube that sometimes splits outdoors as the flower develops. The style is longer than the Tepal tube and is curved before its tip is released. When released, the tip of the style is a pollen presenter. The fruit of Hakaeas Hakeas woody and persists on the plant until burned in a fire or as long as © vegetable molds. The fruit divides then opened to release two winged seeds. [3] [4] [5] [6] Hakeas are similar to other plants of the Proteaceae family, but they have undivided leaves arranged alternately, sessile flowers arranged in groups dissolved in the axils of leaves or bracts, unlike those in Banksia. Hakeas are similar to species of Grevillea but differ from them in having persistent, woody fruits. (Those of grevilleas are not persistent and not woody. The upper and lower surfaces of the leaves of hakeas are similar (dissimilar grevilleas), and ovarian and style are glabrous (but hairy grevilleas). [3] [7] Taxonomy and naming the genus Hakea was formally described in 1797 by Heinrich Schrader and Johann Christoph Wendland and the description was published in Sertum Hannoveranum. [1] [8] the genus is named after Baron Christian Ludwig von Hake, a German patron 18 À " botany century. [9] [10] species of Hakea distribution are found in every state of Australia. [3] Horticulture Hakeas are popular ornamental plants in gardens in Australia, and in many places are common as grevilleas and banksias. Several hybrids and cultivars have been developed, including 'Burrendong Beauty'. They are best grown in beds with a light soil, which are irrigated, but still well drained. Some western showy species, such as Hakea multilineaata, H. fr ancisiana and H. bucculenta, require engagement of hardy stock such as Hakea salicifolia for growing in wetter climates, as they are susceptible to decay. Many species, especially the eastern Australian species, are characterized by their robustness, to the point that they have become weeds. Hakea gibbous, H. sericea, H. and stone fruit (formerly H. suavoelens) were weeds in South Africa, [11] [12] [13] Hakea laurina has become naturalized in the eastern states of Australia and is considered a 'environmental weed, [14] and Hakea salicifolia, bumpy and Hakea Hakea sericea are invasive weeds in New Zealand. [15] [16] [17] Hakea epiglottis Hakea decurrens ssp. physocarpa Species list The following is a list of Hakea species recognized by the Census Australian plant, except for Hakea asperma which is recognized by the Royal Botanic Gardens Victoria: [18] [19] Hakea actites WRBarker À € mulloway needlebush, Wallum Hakea Hakea gooseberry ASGeorge a column Hakea Hakea Hakea Adnata Haegi acuminata R.Br. Hakea Aenigma W.R.Barker & Haegi À € enigma Hakea Hakea ambiguous Meisn. Hakea amplexicaulis R.Br. Thorny Hakea Hakea anadenia Haegi Hakea arborescens R.Br. It's common Hakea, yellow Hakea Hakea Hakea archaeoides W.R.Barker asperma Molyneux & Forrester native dog Hakea Hakea auriculata Meisn. Hakea bakeriana F.Muell. & Maiden Hakea baxteri R.Br. À fan Hakea Hakea Hakea bicornata R.M.Barker brachyptera Meisn. A short wings Hakea Hakea brownii Meisn. a fan-leaf Hakea Hakea bucculenta C.A.Gardner À € embers Hakea candolleana Meisn. Hakea carinata F.Muell. Former Meisn. Hakea ceratophylla (Sm.) 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