

**Table 1. Definition of Variables in Trait Database**

<b>Variable</b>	<b>Definition</b>
species	Botanical name of species. See <sup>1</sup> for additional information
synonyms	Synonyms by which the species has been known
family	See <sup>1</sup> for additional information
accepted_name_in_the_plant_list	Species name as shown as the accepted name in <i>The Plant List</i> (this can differ to the name of the species used in this database) <a href="http://www.theplantlist.org">http://www.theplantlist.org</a>
common_names	Common names of the species found by searching online, but sourced largely from the Australian National Herbarium Specimen Information Register (ANHSIR) <a href="http://www.anbg.gov.au/cpbr/program/hc/hc-ANHSIR.html">http://www.anbg.gov.au/cpbr/program/hc/hc-ANHSIR.html</a>
longevity	Categorised as: Annual; Biennial; Perennial. If species recorded as perennial or annual, we list it as perennial
growth_form	Categories are: Tree; Shrub; Succulent shrub; Herb; Succulent; Graminoid (grasses, sedges and rushes); Vine/scrambler/climber
dispersal_mode	Seed dispersal mode categories: Abiotic (agriculture, garden waste, livestock, refuse, vehicles, water, wind); Biotic (animal, ants, bird, explosive seed pod, human, tumbleweed dispersal)
dispersal_morphology	Morphological adaptations of the seed for dispersal. Categories are: Adhesive (burrs, sticky, awns, hairs etc); Ballistic; Elaiosome; Fleshy fruit/Edible/Aril; Hydrochorous (buoyant seed); Tumbleweed; Unassisted; Wing/Achene/Pappus
leaf_longevity	Deciduous; Evergreen; Semi-evergreen
maximum_height	Maximum height of the species measured in metres (m)
reproductive_age	Age at which plant reproduces, measured in years
reproduction_comments	Relevant comments on species' reproductive strategy methods and observations

capable_of_vegetative_reproduction	Species classified as able to reproduce vegetatively, “yes” or “no”
season_of_flowering	Season in which species is recorded flowering
native_range	Species’ native distribution by continent(s) and island(s)
native_range_details	Species’ native distribution by country(s) and island(s)
exotic_range	Species’ non-native (exotic) distribution by continent(s) and island(s)
exotic_range_other	Species’ non-native (exotic) distribution by continent(s) and island(s), excluding Australia
exotic_range_details	Species’ non-native (exotic) distribution by country(s) and island(s)
exotic_range_australia	Species’ non-native (exotic) distribution by States within Australia
habitat_type_exotic	The type of habitat the species has been recorded from in its exotic (non-native) range. See table 2
soil_type_exotic	The type of soil the species has been recorded to occur on in its exotic (non-native) range. See table 3
seed_weight_average_1000_seeds	Average weight of 1000 seeds, measured in grams (g)
temperature_optimum_for_growth	Optimum temperature for growth, measured in degrees Celsius (°C)
temperature_minimum_for_growth	Minimum temperature suitable for growth, measured in degrees Celsius (°C)
time_since_introduction	The number of years since the first herbarium record for the species
classification_level_used_for_on-line_sale	Species are available for sale on-line in Australia under the classification levels of: species, cultivar, variety &/or form (as at May 2013)
plant_name_for_on-line_sale	Name under which the species/plant is advertised for sale on-line
sources_of_data	See Table 4
extent_of_suitable_habitat_under_current_conditions_of_australia	Percentage of land area in Australia that is suitable habitat for the species, modelled under current conditions of Australia
extent_of_suitable_habitat_under_RCP4.5_conditions_for_2035_of_australia	Percentage of land area in Australia that is suitable habitat for the species modelled under RCP4.5 conditions for 2035.
extent_of_suitable_habitat_under_RCP4.5_conditions_for_	Percentage of land area in Australia that is suitable habitat for the

2065_of_australia	species modelled under RCP4.5 conditions for 2065.
extent_of_suitable_habitat_under_RCP8.5_conditions_for_2035_of_australia	Percentage of land area in Australia that is suitable habitat for the species modelled under RCP8.5 conditions for 2035.
extent_of_suitable_habitat_under_RCP8.5_conditions_for_2065_of_australia	Percentage of land area in Australia that is suitable habitat for the species modelled under RCP8.5 conditions for 2065.

<sup>1</sup> The list of species used in this database originated from Randall (2007). Family, genus and species names were checked with the Australian Plant Census (APC) website: <http://www.anbg.gov.au/chah/apc/>.

There were 32 species for which either the taxon in APC had not yet been treated (12 species) or there were no matching taxon names (20 species). For these 32 plants, the genus and species used have been accepted by either the Plant List website: <http://www.theplantlist.org> and/or the USDA Germplasm Resources Information Network (GRIN) website: <http://www.ars-grin.gov/cgi-bin/npgs/html/taxgenform.pl>. The family for the genus was sourced from the Angiosperm Phylogeny Website (APGIII) Version 12, July 2012: <http://www.mobot.org/mobot/research/apweb/>.

The above searches resulted in numerous family changes from the Randall (2007) list and two name changes: from *Cleome houtteana* to *Tarenaya hassleriana* and *Lycopersicon esculentum* to *Solanum lycopersicum*.

RANDALL, R. P. 2007. The introduced flora of Australia and its weed status. CRC for Australian Weed Management, Department of Agriculture and Food, Western Australia.

**Table 2. Habitat type (exotic)**

<b>Habitat Type</b>
Agricultural land
Abandoned homesteads/cultivated land
Bushland
Coastal vegetation/sand dunes
Cliffs and bluffs
Disturbed areas (including trails)
Desert
Dry sclerophyll forest
Floodplains
Forest
Grasslands
Garden escape
Heathlands
Mangroves
Pastures
Roadsides
Rangelands
Riparian systems
Scrublands/shrublands
Thickets
Urban areas, gardens and parks
Woodlands
Water bodies
Wetlands
Wastelands
Wet sclerophyll forest

**Table 3. Soil type (exotic)**

<b>Soil Type</b>
Acidic
Alkaline
Clay
Fertile
Gravel/stony
Infertile – low fertility
Loamy
Laterite
Medium infertile / moderate poor
Most soil types
Peat
Poorly drained
Sandy
Silt
Well drained

**Table 4. Web links to the sources of the data**

<b>Abbreviated name</b>	<b>Organization</b>	<b>Web link</b>
APD	African Plants Database	<a href="http://www.village.ch/musinfo/bd/cjb/africa/details.php?langue=en&amp;id=67823">http://www.village.ch/musinfo/bd/cjb/africa/details.php?langue=en&amp;id=67823</a>
ANHSIR	Australian National Herbarium Specimen Information Register	<a href="http://www.anbg.gov.au/cpbr/program/hc/hc-ANHSIR.html">http://www.anbg.gov.au/cpbr/program/hc/hc-ANHSIR.html</a>
AusGrass2	Australian Biological Resources Study (ABRS)	<a href="http://ausgrass2.myspecies.info/content/fact-sheets">http://ausgrass2.myspecies.info/content/fact-sheets</a>
DIPBOT	University of Catania	<a href="http://www.dipbot.unict.it/Palms/Descr01.html">http://www.dipbot.unict.it/Palms/Descr01.html</a>
DPI	Department of Primary Industries Victoria	<a href="http://www.dpi.vic.gov.au/agriculture/pests-diseases-and-weeds/weeds">http://www.dpi.vic.gov.au/agriculture/pests-diseases-and-weeds/weeds</a>
ECOCROP	FAO: Food and Agriculture Organization of the UN	<a href="http://ecocrop.fao.org/ecocrop">http://ecocrop.fao.org/ecocrop</a>
EFLORAS	Collection of on-line floras	<a href="http://www.efloras.org">http://www.efloras.org</a>
ENVIS	Environmental Information System (ENVIS) on Conservation of medicinal plants	<a href="http://envis.frlht.org/">http://envis.frlht.org/</a>
FLEU	Flora Europaea	<a href="http://rbg-web2.rbge.org.uk/FE/fe.html">http://rbg-web2.rbge.org.uk/FE/fe.html</a>
FLMOZ	Flora of Mozambique:	<a href="http://www.mozambiqueflora.com">http://www.mozambiqueflora.com</a>
FLNIL	Flora of the Nilgiris	<a href="http://opendata.keystone-foundation.org">http://opendata.keystone-foundation.org</a>
FLORABASE	The Western Australia Flora	<a href="http://florabase.dec.wa.gov.au">http://florabase.dec.wa.gov.au</a>
FLZAM	Flora Zambesiaca	<a href="http://apps.kew.org/efloras/fz/intro.html">http://apps.kew.org/efloras/fz/intro.html</a>
FoNZ	Flora of New Zealand	<a href="http://www.nzflora.info/">http://www.nzflora.info/</a>
GI (FAO)	Grasslands index	<a href="http://www.fao.org/agriculture/crops/en">http://www.fao.org/agriculture/crops/en</a>
GISD	Global Invasive Species Database	<a href="http://www.issg.org/database/welcome">http://www.issg.org/database/welcome</a>
GRIN	Germplasm Resources Information Network:	<a href="http://www.ars-grin.gov">http://www.ars-grin.gov</a>
HEAR	Hawaiian ecosystems at risk	<a href="http://www.hear.org">http://www.hear.org</a>
HEAR (GCW)	HEAR and AgWest : Global Compendium of Weeds	<a href="http://www.hear.org/gcw/scientificnames">http://www.hear.org/gcw/scientificnames</a>
HORT	Hortipedia	<a href="http://en.hortipedia.com/wiki/Main_Page">http://en.hortipedia.com/wiki/Main_Page</a>
ITIS	Integrated Taxonomic Information System	<a href="http://www.itis.gov/servlet/SingleRpt/SingleRpt?searc">http://www.itis.gov/servlet/SingleRpt/SingleRpt?searc</a>

		<a href="#">h_topic=TSN&amp;search_value=41116</a>
KEW	Kew Seed Information Database	<a href="http://data.kew.org">http://data.kew.org</a>
PIER	Pacific Island Ecosystems at Risk project	<a href="http://www.hear.org/pier">http://www.hear.org/pier</a>
Pickering & Mount (2010)	Pickering, C.M. and Mount, A. (2010). Do tourists disperse weed seed? A global review of unintentional human-mediated terrestrial seed dispersal on clothing, vehicles and horses. <i>Journal of Sustainable Tourism</i> .18:239-256.	
PLANTNET	Flora of NSW	<a href="http://plantnet.rbgsyd.nsw.gov.au/search/simple.htm">http://plantnet.rbgsyd.nsw.gov.au/search/simple.htm</a>
PRO	Protabase	<a href="http://database.prota.org/">http://database.prota.org/</a>
SI	Flora of the Hawaiian Islands	<a href="http://botany.si.edu/pacificislandbiodiversity/hawaiiainflora">http://botany.si.edu/pacificislandbiodiversity/hawaiiainflora</a>
TWN	The Weeds Network	<a href="http://invasivespecies.org.au">http://invasivespecies.org.au</a>
USDA	United States Department of Agriculture	<a href="http://plants.usda.gov/java/">http://plants.usda.gov/java/</a>