

## **Progress Report CF 2011-111**

# **The Western Australian Plant Census and Australian Plant Census**

**Plant Science and Herbarium**

### **Project Core Team**

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Update requested

### **Document endorsements and approvals as of June 22, 2020, 12:03 p.m.**

<b>Project Team</b>	required
<b>Program Leader</b>	required
<b>Directorate</b>	required

# The Western Australian Plant Census and Australian Plant Census

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## Context

The Western Australian Plant Census (a component of WACensus) is the authoritative database of all names of plants in Western Australia, including synonyms created by taxonomic change. It is continually updated to reflect changes in our knowledge of the flora. The census constitutes the fundamental master list for many departmental processes and datasets, including the Threatened and Priority Flora databases maintained by the Species and Communities Program, the Herbarium's specimen database, Max, *FloraBase* and *NatureMap*.

The Australian Plant Census (APC) is a project of the Council of Heads of Australasian Herbaria, designed to provide a consensus view of all Australian plant taxa. Until now plant censuses have been only state-based, which has made it difficult to obtain authoritative information on what species occur in Australia as a whole, to obtain accurate national statistics, and to deal with differences in opinion and knowledge for taxa that cross state boundaries. In addition to working systematically through the vascular plant families, the APC process provides for updates as taxonomic changes or new findings are published. The consensus also extends from family and genus level to an overall classification of the plants that occur in Australia. As the APC project continues, the Western Australian Plant Census is updated to reflect the consensus view. The APC provides the key name list for the Atlas of Living Australia.

## Aims

- Maintain an accurate and timely listing of all plants, algae and fungi in Western Australia, including both current names and synonyms, and integrate this with the national consensus.

## Progress

- 423 plant names (363 formally published and 60 informal names) were added to WACensus.
- 1343 other edits were made to the WACensus.
- WACensus updates were regularly distributed to 262 registered Max users.
- Provided critical review of the final version of the list of all currently known taxa in the family Orchidaceae for Australia, which has resulted in nationally standardised names for Western Australian orchids.
- Contributed to discussions on taxonomy and nomenclature to assist in reaching national consensus for the National Species List (NSL), also known as Australian Plant Census.
- The State's contribution to maintenance of this national cooperative database continued with the addition of 168 new vascular plant names to the NSL database and creation of 931 new instances (data on synonymy and publications).

## Management implications

- WACensus provides users with a single, authoritative official list of plants for Western Australia, with their currently accepted classification, scientific name, correct spelling and authority. Delivery of this information is through the *FloraBase* website, Max (departmental software for information based on taxonomic names) and other linked databases or websites.
- Users of plant names are able to access WACensus information to ensure that current information on names, taxonomic acceptance and occurrence in Western Australia is available for conservation status lists, publications, signage and legal requirements. Outdated names can be traced to their current status or updated name through WACensus.
- WACensus feeds Western Australian information to national biodiversity systems such as the Atlas of Living Australia, the Australian Plant Census (National Species List), e-flora of Australia and the Australasian Virtual Herbarium.

## Future directions

- Continue to provide a comprehensive and up to date census across all plant groups.