



Grevillea obtusiflora

including both subspecies *obtusiflora* and *fecunda*

R. Br

The following information is provided to assist authors of Species Impact Statements, development and activity proponents, and determining and consent authorities, who are required to prepare or review assessments of likely impacts on threatened species pursuant to the provisions of the *Environmental Planning and Assessment Act 1979*. These guidelines should be read in conjunction with the NPWS *Information Circular No. 2: Threatened Species Assessment under the EP&A Act: The '8 Part Test' of Significance* (November 1996).

Survey

Surveys for both *G. obtusiflora* subsp. *obtusiflora* and subsp. *fecunda* can be conducted at any time of the year, however they are easier to locate while flowering from September to December.

Surveys should be conducted within suitable habitat within the range of this species, which include the Lithgow and Rylstone local government areas.

Life cycle of the species

The biology of *Grevillea obtusiflora* is described in the draft recovery plan and summarised in the attached profile. The lifecycle of *G. obtusiflora* subsp. *obtusiflora* and subsp. *fecunda* is likely to be disrupted should any of the following occur:

- **Habitat Modification** could impact on the lifecycle of both *G. obtusiflora* subsp. *obtusiflora* and subsp. *fecunda* through direct and indirect impacts on individual plants or to the soil seed bank. Both subspecies have populations on roadside verges that are potentially under threat by road widening, slashing and weed spraying of broad areas with herbicide and phosphate sprays.

- **Inappropriate fire regimes** may pose a threat to the lifecycle of both *G. obtusiflora* subsp. *obtusiflora* and subsp. *fecunda* as the ability of these subspecies to cope with fire is unknown at present. Prescribed burns for fuel reduction are carried out as required by the State Forests of NSW and by Rylstone Council. In the known habitats of *G. obtusiflora* subsp. *obtusiflora* and subsp. *fecunda* evidence indicates that regular fire events are uncommon.

Threatening processes

There are no key threatening processes listed under the *Threatened Species Conservation Act 1995* that are relevant to these taxa.

Viable local population of the species

G. obtusiflora subsp. *obtusiflora*

The population is estimated at several hundred adult ramets in 10 sub-populations in the Clandulla State Forest, and scattered individuals outside State Forest boundaries.

Due to the lack of regular new genetic input from seed and the exclusive clonality of this species, this may be indicative that the genetic diversity of the population is low. It is unknown if this population is viable.

G. obtusiflora subsp. *fecunda*

The three sub-populations are estimated to have 50, 350, and 500 individuals. The extent of genetic transfer between the sub-populations is unknown.

Due to *G. obtusiflora* subsp. *fecunda*'s ability to sexually reproduce and to colonise disturbed areas, it is probable that the populations of this species are viable.

A significant area of habitat

Due to the limited area occupied by this taxon, and the sensitivity of its habitat, all habitat and subpopulations of *G. obtusiflora* are significant.

Isolation/fragmentation

Both taxa are isolated. Further fragmentation of sub-populations may compromise their viability.

Regional distribution of the habitat

Although similar habitat is present in the area, despite survey no further sub-populations have been located. The parameters defining the preferred habitat for these species are yet to be identified.

Limit of known distribution

G. obtusiflora subsp. *obtusiflora*

G. obtusiflora subsp. *obtusiflora* occurs in Clandulla State Forest, and on adjacent

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land. near Rylstone in the Central Tablelands of NSW.

G. obtusiflora subsp. *fecunda*

Grevillea obtusiflora subsp. *fecunda* occurs along several roads in the Capertee Valley, west of Lithgow, and in the Gardens of Stone National Park.

Adequacy of representation in conservation reserves

G. obtusiflora subsp. *obtusiflora*

This taxon is not adequately represented in conservation reserves.

G. obtusiflora subsp. *fecunda*

A sub-population occurs in the Gardens of Stone National Park. This taxon is not adequately reserved

Critical habitat

Critical habitat has not been declared for *G. obtusiflora*.

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