

Threatened Species Assessment

Hibbertia incana Mount Hope Guinea-flower

Description

Hibbertia incana (Lindl.) Toelken

This species is included by Toelken (2000) in the *Hibbertia riparia* complex in contrast to its treatment in the Flora of Victoria (Toelken 1996) in which it was considered part of the *H. sericea* group. Currently the taxon concept for *H. incana* is unclear. *Hibbertia incana* is seemingly known only from the type gathering at Mt Hope. No subsequent *Hibbertia* collections that resemble the type specimen have been made, and the type material (held at Melbourne herbarium) is currently on loan. As such no description or key for this species can be given at this time. (VicFlora 2021)

Current conservation status

Categorised as 'Presumed extinct in Victoria' in the 2014 Advisory list of rare or threatened plants in Victoria (DEPI 2014).

Proposed conservation status

Extinct (EX) in Victoria.

Criteria for Extinct status

As per Schedule 1 of the Flora and Fauna Guarantee Regulations 2020, the primary criterion for the category of threat 'extinct' is met if–

- (a) exhaustive surveys throughout the taxon's historic range fail to record an individual member of the taxon; and
- (b) those surveys were conducted over a time frame appropriate to the taxon's life cycle and life form, in known or expected habitat and at appropriate times (diurnal, seasonal, annual).

Historical records of the species were retrieved from the Victorian Biodiversity Atlas. A 50km buffer was placed around each location, and all surveys of appropriate surveying method to date were retrieved. In total, 6,141 appropriate surveys have taken place within the historic range with no records of *H. incana* since 2011.

| Victorian Biodiversity Atlas search results | |
|--|------------------------------------|
| Number of known historical locations | 8 |
| Last known record | 2011 |
| Total recorded surveys to date within 50km of all historical locations | 6,141 |
| Survey methods searched | External data, Monitoring, Quadrat |

***External data:** Additional observation records collected by third parties. **Monitoring:** Observations recorded from surveys of bushfire hazard mapping surveys, pre-harvest surveys, indicator- or all-species assessments, etc. **Quadrat:** Square vegetation quadrats to measure vegetation attributes of an area (plant density, frequency, biomass, etc.)



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Historical distribution

Hibbertia incana is seemingly known only from the type gathering at Mt Hope. Also, NSW, SA. (VicFlora 2021)

Recorded from a wide range of vegetation including scrub, woodland and forest but often associated with granite outcrops. Known from New South Wales (CT, ST, CWS, SWS, SWP), south-eastern, central to mainly western Victoria and eastern South Australia (FR, EA, NL, MU, SL, KI, SE) (Toelken 1995).

References

DEPI (2014) *Advisory list of rare or threatened plants in Victoria - 2014*. Department of Environment and Primary Industries, Melbourne.

Toelken, H. R. (1995). Notes on *Hibbertia* I. New taxa from south-eastern Australia. *Journal of the Adelaide Botanic Garden*, 59-72.

VicFlora (2021). Flora of Victoria. Flora of Victoria, Royal Botanic Gardens Victoria: *Hibbertia incana*. Retrieved from: <https://vicflora.rbg.vic.gov.au/flora/taxon/627607fe-eed2-4144-9331-75a01cd1f07e>