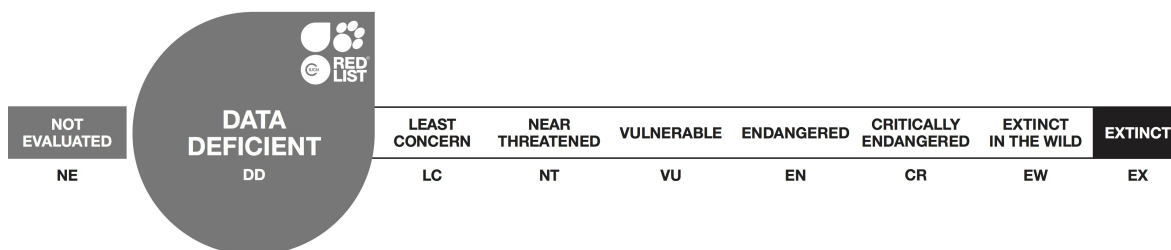


## *Andrena chalcogastra*

Assessment by: Roberts, S. & de Meulemeester, T.



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## Taxonomy

Kingdom	Phylum	Class	Order	Family
Animalia	Arthropoda	Insecta	Hymenoptera	Andrenidae

**Taxon Name:** *Andrena chalcogastra* Brullé, 1839

### Synonym(s):

- *Andrena chalcogastra subspecies palmaensis* Warncke, 1968
- *Andrena chalcogastra subspecies chalcogastra* Brullé, 1839
- *Andrena chalcogastra subspecies gomera* Warncke, 1968

### Taxonomic Source(s):

Gusenleitner, F. and Schwarz, M. 2002. Weltweite Checkliste der Bienengattung *Andrena* mit Bemerkungen und Ergänzungen zu paläarktischen Arten (Hymenoptera, Apidae, Andreninae, *Andrena*). *Entomofauna, Supplement 12*: 1-280.

### Taxonomic Notes:

This assessment includes the Canarian subspecies *Andrena chalcogastra gomera* Warncke, 1968 (from La Gomera), *Andrena chalcogastra palmaensis* Warncke, 1968 (from La Palma), *Andrena chalcogastra extrema* Warncke, 1993 (from Gran Canaria), and *Andrena chalcogastra chalcogastra* Brullé, 1839 (from Tenerife).

## Assessment Information

**Red List Category & Criteria:** Data Deficient [ver 3.1](#)

**Year Published:** 2015

**Date Assessed:** October 15, 2014

### Justification:

Listed as Data Deficient as there is little or no information on population size, trends and habitats of the species. Further research is needed to establish the status of this species throughout its range.

## Geographic Range

### Range Description:

*Andrena (Taeniandrena) chalcogastra* is endemic to the Canary Islands. This species occurs in the four western Islands (La Palma, La Gomera, Tenerife and Gran Canaria) (Gusenleitner and Schwarz 2002).

### Country Occurrence:

**Native:** Spain (Canary Is.)

## Population

There is no information available on the population size and trend of this species.

**Current Population Trend:** Unknown

## Habitat and Ecology (see Appendix for additional information)

*Andrena chalcogastra* is a bivoltine species, in that it has two generation per year, that flies from January to April and from May to July (Warncke 1968). Males have been recorded visiting: Asteraceae (*Calendula arvensis*, *Launaea arborescens*, *Sonchus canariensis*, *Tolpis laciniata*), Boraginaceae (*Echium aculeatum*, *Echium auberianum*), Brassicaceae (*Descurainia bourgeauana*, *Hirschfeldia incana*), Ericaceae (*Erica arborea*) and Fabaceae (*Chamaecytisus proliferus*, *Lotus* sp., *Spartocytisus supranubius*). The females have been recorded on Boraginaceae (*Echium auberianum*), Brassicaceae (*Erysimum scoparium*), Euphorbiaceae (*Euphorbia obtusifolia*) and Fabaceae (*Chamaecytisus proliferus*, *Lotus campylocladus*, *Spartocytisus supranubius*) (Hohmann *et al.* 1993). There is no information available for the habitats of this species although it can be assumed to occur on Mediterranean-type shrubland.

**Systems:** Terrestrial

## Use and Trade

The species is not traded or exploited commercially.

## Threats (see Appendix for additional information)

This species is only known from a small area, within which it is presumably threatened to some degree by habitat loss from general conversion of land to intensive agricultural use or through tourist infrastructure development.

## Conservation Actions (see Appendix for additional information)

The species is not listed on any National Red Lists or Red Data Books and is not the subject of any targeted conservation action. It is not known if the species is found in any protected areas. Further research is needed to establish the population size, trends and habitats of the species.

## Credits

**Assessor(s):** Roberts, S. & de Meulemeester, T.

**Reviewer(s):** García, M., Scheuchl, E., Nieto, A. & Kemp, J.R.

## Bibliography

Gusenleitner, F. and Schwarz, M. 2002. Weltweite Checkliste der Bienengattung *Andrena* mit Bemerkungen und Ergänzungen zu paläarktischen Arten (Hymenoptera, Apidae, Andreninae, *Andrena*). *Entomofauna, Supplement 12*: 1-280.

Hohmann, H., Laroche, F., Ortega, G. and Barquin, J. 1993. *Bienen, Wespen und Ameisen der Kanarischen Inseln (Insecta: Hymenoptera: Aculeata)*. Veröffentlichungen Übersee-Museum Bremen (Naturwissenschaftlichen), Bremen.

IUCN. 2015. The IUCN Red List of Threatened Species. Version 2015.1. Available at: [www.iucnredlist.org](http://www.iucnredlist.org). (Accessed: 28 May 2015).

Warncke, K. 1968. Zur Kenntnis der Bienengattung *Andrena* F. auf den Kanarischen Inseln. *Notulae Entomologicae XLVIII*: 63-80.

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## External Resources

For [Images and External Links to Additional Information](#), please see the Red List website.

## Appendix

### Habitats

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Habitat	Season	Suitability	Major Importance?
3. Shrubland -> 3.8. Shrubland - Mediterranean-type Shrubby Vegetation	Resident	Unknown	-

### Threats

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Threat	Timing	Scope	Severity	Impact Score
1. Residential & commercial development -> 1.3. Tourism & recreation areas	Ongoing	Unknown	Unknown	Unknown
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality 2. Species Stresses -> 2.2. Species disturbance		
2. Agriculture & aquaculture -> 2.1. Annual & perennial non-timber crops -> 2.1.1. Shifting agriculture	Ongoing	Unknown	Unknown	Unknown
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.3. Indirect ecosystem effects		

### Conservation Actions in Place

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Conservation Actions in Place
In-Place Land/Water Protection and Management
Occur in at least one PA: Unknown

### Research Needed

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Research Needed
1. Research -> 1.2. Population size, distribution & trends
1. Research -> 1.3. Life history & ecology

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