Species data for the Environmental Impact Assessment (EIA) Screening Tool

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TSP’s species data

Brunsvigia litoralis (EN)
2811 threatened plant species
± 78 000 occurrence records
Uncertainty in occurrence record precision

Cederberg Wilderness Area; shaleband WSW of Sneeukop. 32°21'24.608' S; 19°08'44.404' E

Cederberg Wilderness Area
Suitable habitat models
Screening Tool Structure

Levels of Sensitivity

- Very High
- High
- Medium
- Low

Species of conservation concern present or likely to be present

Species of conservation concern unlikely to be present
Screening Tool Structure

Levels of Sensitivity

- **Very High**
  - Critical habitat for highly range restricted species (EOO<10 km²)
  - Completely irreplaceable: no options for offsetting loss

- **High**

- **Medium**

- **Low**
Screening Tool Structure

Levels of Sensitivity

- **Very High**
  - Critical habitat for highly range restricted species (EOO<10 km²)
  - Completely irreplaceable: no options for offsetting loss

- **High**
  - Threatened species/species of conservation concern confirmed present through recent records

- **Medium**

- **Low**
Screening Tool Structure

Levels of Sensitivity

- **Very High**
  - Critical habitat for highly range restricted species (EOO<10 km²)
  - Completely irreplaceable: no options for offsetting loss

- **High**
  - Threatened species/species of conservation concern confirmed present through recent records

- **Medium**
  - Habitat suitability model and/or historical records indicate that threatened species/species of conservation concern are likely to be present: must be confirmed through field surveys

- **Low**
3(c) - PROTOCOL FOR THE ASSESSMENT OF ENVIRONMENTAL IMPACTS ON TERRESTRIAL SPECIES RESOURCES IN AREAS WITH ENVIRONMENTAL SENSITIVITY AS IDENTIFIED BY THE NATIONAL WEB-BASED ENVIRONMENTAL SCREENING TOOL

**VERY HIGH SENSITIVITY RATING FOR TERRESTRIAL SPECIES RESOURCES**

1. **Critical Habitat for range restricted species** of conservation concern that have a global range of less than 10 km².

   - Species of conservation concern listed on South Africa’s National Red List websites 4, 5 as Critically Endangered, Endangered or Vulnerable according the IUCN Red List 3.1. Categories and Criteria or listed as Nationally Rare.

   These areas are irreplaceable in terms of species of conservation concern and unsuitable for development.

**HIGH SENSITIVITY RATING FOR TERRESTRIAL SPECIES RESOURCES**

1. **Confirmed habitat for species of conservation concern.**

   - Species of conservation concern listed on South Africa’s National Red List websites 4, 5 as Critically Endangered, Endangered or Vulnerable according the IUCN Red List 3.1. Categories and Criteria.

   These areas are unsuitable for development due to a very likely impact on species of conservation concern.

**MEDIUM SENSITIVITY RATING FOR TERRESTRIAL SPECIES RESOURCES**

1. Suspected habitat for species of conservation concern based either on there being records for this species collected in the past prior to 2002 or being a natural area included in a habitat suitability model.

   - Species of conservation concern listed on South Africa’s National Red List websites 4, 5 as Critically Endangered, Endangered or Vulnerable according the IUCN Red List 3.1. Categories and Criteria.

SACNASP registered specialist

Determine:

a. the distribution, location, viability (ability to survive and reproduce in future) and detailed description of population size of the species of conservation concern identified on the proposed development site and alternative sites

b. description of the importance of the conservation of the population of the species of special concern identified on the proposed development site and alternative sites based on information available in national and international databases including South African Red List of Species, Red List of South African Plants, IUCN Red List of Threatened Species, and/or other relevant databases;

c. description of any dynamic ecological processes that might be disrupted by the development and resulting impact on the identified species of conservation concern;
**LOW SENSITIVITY RATING FOR TERRESTRIAL SPECIES RESOURCES**

1. Areas where no natural habitat remains.
2. Natural areas where there are no suspected occurrence of species of conservation concern.

1. An applicant, intending to develop an activity identified in the “scope” of this schedule, on a site identified as being of “low sensitivity” for Terrestrial Species on the national web-based environmental screening tool must appoint a suitably qualified specialist to conduct a site survey to verify the “low sensitivity” for Terrestrial Species resources as identified on the national web-based environmental screening tool and submit a Terrestrial Species Compliance Statement to the competent authority.

The Terrestrial Species Compliance Statement, must be prepared by a suitably qualified specialist in the field of ecological sciences; and must contain, as a minimum, the following information:

If the information gathered from the site inspection differs from that identified as having a “low” terrestrial biodiversity sensitivity by the national web-based environmental screening tool and it is found to be of a “very high”:

a. Terrestrial Species Resource Impact Assessment is to be undertaken and a report prepared in accordance with the requirements of a Terrestrial Species Resource Impact Assessment.
Challenges

• Features within the same theme with different levels of sensitivity at the same site
• 1 Critical Habitat species
• 2 threatened species confirmed present
• Suitable habitat for 100 other threatened species
Challenges

- Features within the same theme with different levels of sensitivity at the same site
- Size of datasets:
  - 2800+ species
  - >100 000 polygons
  - 7+ GB shapefile
Challenges

• Features within the same theme with different levels of sensitivity at the same site

• Size of datasets:
  – 2800+ species
  – >100 000 polygons
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• Protocols ↔ Data ↔ Sensitivity