National Status Report on Biological Invasions and their Management in South Africa

Indicators
Why a status report?
The Institute [i.e. SANBI] must submit a report on the status of listed invasive species within three years after these regulations come into effect, and every three years thereafter.

The report must contain a summary and assessment of:

- the status of listed invasive species;
- the effectiveness of these regulations and control measures.
Why a status report?

- Basic inventory and ecological research
- Assess implications and formulate appropriate policy
- Set goals and implement management measures
- Monitoring and evaluation

Status Report

Why a status report?
Indicators?

b)

Basic inventory and ecological research
Assess implications and formulate appropriate policy
Set goals and implement management measures
Monitoring and evaluation

SANBI
South African National Biodiversity Institute
20 indicators
(pathways, species, areas, interventions)

4 high level indicators

• Factsheets
• Hierarchical metrics
• Confidence Levels
Pathways

1. Introduction pathway prominence
2. Rate of introduction per pathway
3. Within-country pathway prominence
4. Within-country dispersal rates
5. Number and status of alien species
6. Extent of alien species
7. Abundance of alien species
8. Impact of alien species
Areas

9. Alien species richness

10. Relative invasive abundance

11. Impact of invasions
Interventions

12. Quality of regulatory framework

13. Money spent

14. Planning coverage
15. Pathways treated

16. Species treated

17. Areas treated
Interventions

18. Effectiveness of pathway treatments

19. Effectiveness of species treatments

20. Effectiveness of area treatments

Outcomes
Hierarchical metrics

| Number of alien species | Number of alien species in one of three categories | Number of species at different stages of the Unified Framework |

*Increasing complexity*

*Number and status of alien species*
### Confidence levels

<table>
<thead>
<tr>
<th>Rate of introduction per pathway</th>
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<tbody>
<tr>
<td><strong>High</strong>—direct evidence of the introduction pathway</td>
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<tr>
<td><strong>Medium</strong>—species appeared when and where a single pathway was in operation and there is no other explanation</td>
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<tr>
<td><strong>Low</strong>—pathway of introduction inferred based on traits or from other regions</td>
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4 high-level indicators
(for DEA reports to parliament)

Pathways
- Rates of introduction

Species
- Number of invasive species with high impacts

Areas
- Extent of severely invaded area

Interventions
- Effectiveness of control measures