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GENERAL NOTICES

NOTICE 1146 OF 2007

DEPARTMENT OF ENVIRONMENTAL AFFAIRS AND TOURISM

NATIONAL ENVIRONMENTAL MANAGEMENT: BIODIVERSITY ACT, 2004 (ACT 10 OF 2004) DRAFT ALIEN AND INVASIVE SPECIES REGULATIONS, 2007

I, Marthinus Christoffel Johannes van Schalkwyk, Minister of Environmental Affairs and Tourism, hereby give notice of my intention to make regulations under section 97(1)(b), (c), (e), (f), (g) and (h), relating to alien species and listed invasive species. In terms of section 100 of the Act, I publish for public information and comment the following draft regulation in the schedule hereto..

To ensure that all the relevant stakeholders are consulted and to streamline the consultation process, interested and affected stakeholders are invited to submit **written** comments to the department on or before **15 October 2007**. Comments received after the closing date may not be considered.

Please submit all written comments to:

The Director-General
Department of Environmental Affairs and Tourism
Private Bag X447
PRETORIA
0001

For Attention: Ms S Meintjes

By fax to 012-320-7026; and by e-mail to Smeintjes@deat.gov.za. Any enquiries should be directed to Ms S Meintjes at 012-310-3545.



MARTHINUS VAN SCHALKWYK
MINISTER OF ENVIRONMENTAL AFFAIRS AND TOURISM

DATE: 05 SEP 2007

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CHAPTER 1 INTERPRETATION AND PURPOSE

Definitions

1. In these Regulations, unless the context otherwise indicates, a word or expression to which a meaning has been assigned in the Act, has the same meaning, and –

"Act" means the National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004);

"applicant" means a person applying for a permit in terms of regulation 12 or the renewal of a permit in terms of regulation 24;

"Department" means the Department of Environmental Affairs and Tourism;

"captive breeding operation" means a facility where specimens of an alien or listed invasive species are bred in a controlled environment;

"commercial exhibition facility" means a facility, including zoological gardens, aquariums or travelling exhibitions that keeps alien or listed invasive species for display purposes;

"controlled environment" means an enclosure designed to hold specimens of an alien or listed invasive species in a way that –

- (a) prevents them from escaping;
- (b) facilitates intensive human intervention or manipulation in the form of the provision of –
 - (i) food or water;
 - (ii) artificial housing; or
 - (iii) health care; and

(c) facilitates the intensive breeding or propagation of an alien or listed invasive species.

“Director-General” means the Director-General of the Department;

“exempted alien species” means an alien species exempted by Notice in the *Gazette* in terms of section 66 of the Act from the provisions of sections 65 of the Act;

“Institute” means the South African National Biodiversity established in terms of section 10 of the Act;

“invasion” means the establishment and subsequent spread of a species outside its distribution range to the extent that threat to biodiversity;

“listed invasive species” means a species listed in a Notice in the *Gazette* in terms of section 70(1) of the Act as an invasive species;

“MEC” means the Member of the Executive Committee of a province responsible for the conservation of biodiversity in that province;

“natural distribution range” as it relates to indigenous species means the ecological zones and geographical areas in which an alien species historically occurred and is the area indicated to be the natural distribution range, including the additional distribution range, in terms of Annexure 1 of these regulations;

“Notice” means the Government Notice published in terms of sections 66(1), 67(1) and 70(1)(a) of the Act;

“nursery” means a facility where an alien or listed invasive species is artificially propagated or multiplied for commercial purposes;

"pathway" means the route by which an alien or invasive species is introduced, dispersed or spread into or within the Republic whether by natural means, inadvertent vectoring, or deliberate acts of human intervention;

"peat" means renewable, natural, organic material of botanical origin and includes an accumulation of partially decayed vegetation material that formed in waterlogged, sterile, acidic and anaerobic (low oxygen) conditions;

"permit holder" means a person to whom a permit has been issued in terms of regulation 12;

"permit" means a permit issued in terms of these Regulations;

"prohibited alien species" means an alien species listed by Notice in the *Gazette* in terms of section 67 of the Act;

"provincial authority" means the provincial government department responsible for environmental affairs;

"restricted activity" in relation to a specimen of an alien species or a listed invasive species, means –

- (a) importing into the Republic, including introducing from the sea, any specimen of an alien or listed invasive species;
- (b) having in possession or exercising physical control over any specimen of an alien or listed invasive species;
- (c) growing, breeding or in any other way propagating any specimen of an alien or listed invasive species, or causing it to multiply;
- (d) conveying, moving or otherwise translocating any specimen of an alien species or listed invasive species;

- (e) selling or otherwise trading in, buying, receiving, giving, donating or accepting as a gift, or in any way acquiring or disposing of any specimen of an alien or listed invasive species; or
- (f) any other activity prescribed in regulation 7;

"risk assessment" means a research-based evaluation of the threat or potential threat posed to biodiversity by a restricted activity involving a specimen of an alien or invasive species;

"sanctuary" means a facility in which a permanent captive home is provided in a controlled environment for specimens of an alien or listed invasive species that would be unable to sustain themselves if released and where no breeding of the species kept in captivity for these purposes are allowed;

"SANParks" means the South African National Parks established in terms of the repealed section 5 of the National Parks Act, 1976 (Act No. 57 of 1976) and which continues to exist under section 54 of the National Environmental Management: Protected Areas Act (Act No. 57 of 2003);

"scientific institution" means a museum, research unit of a tertiary institution or an organ of state, or herbarium, where specimens of an alien or listed invasive species are kept for research or information or identification purposes;

"vector" means a living or dead organism that serves as a vehicle by means of which a specimen of an alien or invasive species is inadvertently or deliberately transported, dispersed or spread.

CHAPTER 2 DESIGNATION OF AUTHORITIES

Designation of issuing authorities

2. (1) The MEC of the province in which a restricted activity involving an alien species or listed invasive species is to take place, is designated as the issuing authority for issuing permits authorising the carrying out of that activity.

(2) Notwithstanding the provisions of subregulation (1) the Minister or his delegate remains the issuing authority for a permit to engage in a restricted activity involving an alien or listed invasive species if-

- (a) the species is a marine species; or
- (b) the applicant is an organ of state.

Designation of competent authorities

3. (1) The MEC of the province in which the restricted activity involving an alien species or listed invasive species is taking place is designated as a competent authority to implement and enforce provisions relating to permit requirements, adherence to permit conditions, the issuance and implementation of directives, the receipt of notifications involving alien species and listed invasive species.

(2) Notwithstanding the provisions in subregulation (1) the Minister or his delegate remains the competent authority to implement and enforce provisions relating to permit requirements, adherence to permit conditions, the issuance and implementation of directives, the receipt of notifications involving alien species and listed invasive species, if-

- (a) the alien and invasive species involved, is a marine species; or
- (b) the applicant or owner of land is an organ of state.

Integrated permits

4. A permit issued in terms of provincial legislation by a provincial department designated as an issuing authority in terms of regulation 2 of these regulations for a restricted activity involving an alien species or listed invasive species, will be regarded as a permit issued in terms of the Biodiversity Act and these regulations;

CHAPTER 3**PERMIT REQUIREMENTS, REGISTERS, NOTIFICATIONS AND
REPORTING REQUIREMENTS****Restricted activities requiring permits**

5. (1) No person may undertake a restricted activity involving a specimen of a prohibited alien species listed in the Notice published in the *Gazette* in terms of section 67 of the Act.

(2) A person may undertake a restricted activity involving a specimen of an exempted alien species listed in the Notice published in the *Gazette* in terms of section 66 of the Act without a permit.

(3) A person shall require a permit to undertake a restricted activity involving a specimen of an alien species not listed as exempted in the Notice referred to in subregulation (2) or a listed invasive species as reflected in the Notice published in the *Gazette* in terms of section 70(1) of the Act.

(4) A person shall require a permit to undertake a restricted activity involving a specimen of an indigenous alien species if the activity will be carried out outside the natural distribution range or between population ranges as indicated in Annexure 1.

(5) A person wishing to undertake an activity involving a specimen of an alien species falling into a category of alien species that is listed as an exempted alien species shall bear the onus of proving that the species falls within that category.

Prohibited activities

6. (1) No person may carry out a restricted activity involving a listed invasive plant species or a listed prohibited invasive species.

(2) A person who is an owner of land on which a listed invasive plant species occurs must control the species by means of methods that are appropriate for the species concerned and the environment in which it occurs, including the following methods:

- (a) Uprooting, felling, cutting or burning;
- (b) treatment with a weed killer that is registered for use in connection with such plants in accordance with the directions for the use of such a weed killer;
- (c) biological control carried out in accordance with the authorization in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998);
- (d) any other method of treatment recognized by the competent authority; or
- (e) any combination of one or more of the methods prescribed in paragraph (a), (b), (c) and (d).

(2) Notwithstanding the provisions in subregulations (1) and (2) the issuing authority may authorize scientific institutions or commercial exhibition facilities to carry out a restricted activity with a permit.

Prescribed activities

7. (1) The following activities are prescribed as restricted activities involving a specimen of an alien or listed invasive species:

- (a) importing into the Republic, including introducing from the sea, any wooden packaging materials that does not comply with any determination made in terms of the Agricultural Pests Act, 1983 (Act No. 36 of 1983); or

- (b) importing into the Republic, including introducing from the sea, any peat or peat products; or
- (c) discharging ballast water from ships within fifty kilometers of the coast of the Republic; or
- (d) discharging or disposing into a waterway or the ocean, water from an aquarium, tank or other receptacle that has been used to keep an aquatic alien or listed invasive species.

(2) No person may carry out an activity prescribed in subregulation (1)(a) or (c).

(3) No person may carry out an activity prescribed in subregulation (1)(b) unless the peat or peat product has been treated in a manner intended to destroy any living specimens of alien or listed invasive species that may occur in the peat.

(4) No person may carry out an activity prescribed in subregulation (1)(d) unless the water has been treated in a manner intended to destroy any living specimens of alien or listed invasive species that may occur in the water.

Register of alien and listed invasive species

8. (1) An issuing authority must —
- (a) establish a register of all permits issued by that authority in terms of these regulations;
 - (b) record in the register —
 - (i) the scientific and common name of the species for which the permit was issued;
 - (ii) the restricted activity for which the permit was issued;
 - (iii) any conditions under which the permit was issued;
 - (iv) the date on which the permit was issued;
 - (v) the period of validity of the permit; and
 - (vi) the location where the restricted activity is to be carried out.

(2) The issuing authority must, on an annual basis, provide to the Institute, a written report containing the following information:

- (a) A list of all permits; and
- (b) the information recorded in terms of subregulation (1)(b) for each permit.

(3) The Institute must establish and maintain a national register of:

- (a) All alien and listed invasive species legally imported into the Republic prior to the date of publication of these Regulations; and
- (b) all alien and listed invasive species in respect of which a permit in terms of this Act has been issued.

Notifications

9. (1) A person who is the owner of land on which a listed invasive species occurs must notify the relevant competent authority, in writing, of the listed invasive species occurring on that land.

(2) A notification in terms of subregulation (1) must —

- (a) be in the form set out in Schedule 1; and
- (b) contain at least the following information:
 - (i) The full names of the owner of the land;
 - (ii) the address and contact details of the owner of the land;
 - (iii) the name and contact details of the person in control of the land;
 - (iv) the cadastral description of the land;
 - (v) the listed invasive species occurring on the land;
 - (vi) the extent of the infestation and densities of the listed invasive species occurring on the land;
 - (vii) a map of the land indicating the location of the listed invasive species on the land;
 - (viii) a description of measures adopted to monitor, control and eradicate such listed invasive species; and

- (ix) measurable indicators of progress and indications of when control measures are likely to be completed.

(3) A competent authority receiving a notification in terms of subregulation (1) must every twelve months, provide to the Institute, a written report containing the following information —

- (a) a list of all notifications received in terms of subregulation (1); and
- (b) the information recorded in terms of subregulation (2)(b) for each notification.

Invasive species monitoring, control and eradication plans

10. (1) Listed invasive species control and eradication plans or strategies to be developed by organs of state and management authorities of protected areas must include the following information:

- (a) A detailed list and description of any listed invasive species occurring on the relevant land;
- (b) a description of the parts of that land that are infested with such listed invasive species;
- (c) an assessment of the extent of such infestation;
- (d) a status report on the efficacy of previous control and eradication measures;
- (e) the current measures to monitor, control and eradicate such invasive species, as appropriate; and
- (f) measurable indicators of progress and success, and indications of when the control plan is to be completed.

(2) A copy of the control and eradication plan referred to in subregulation (1) must be lodged with the Institute.

- (3) The Institute may —
 - (a) request such further information as it considers necessary;
 - (b) recommend to the organ of state submitting the plan, measures to eradicate or control the listed invasive species described in the plan;

- (c) report to the Minister on any matters detailed in the plan requiring intervention; and
- (d) establish and maintain a record of all invasive species control and eradication plans submitted to it in terms of subregulation (2);

Status reports

11. (1) The Institute must submit a report on the status of all listed invasive species to the Minister within two years after promulgation of these regulations and every two years thereafter.

- (2) A status report referred to in subregulation (1) must —
 - (a) contain the following information:
 - (i) Permits issued for listed invasive species;
 - (ii) notifications received from owners of land regarding listed invasive species occurring on that land;
 - (iii) control and eradication plans and strategies received from organs of state and management authorities of protected areas; and
 - (iii) directives involving listed invasive species issued by competent authorities.
 - (b) identify listed invasive species requiring comprehensive programmes for prevention, eradication or control;
 - (c) recommend a framework for the prevention, eradication or control of listed invasive species identified in subregulation (c);
 - (d) identify listed invasive species that require priority prevention, eradication or control;
 - (e) identify geographic areas that require priority attention;
 - (f) recommend programmes to be implemented to facilitate the prevention, eradication or control of listed invasive species identified in subregulation (f) and in areas identified in subregulation (h); and
 - (g) identify measures to rehabilitate invaded areas.

CHAPTER 4

PERMIT APPLICATIONS AND RISK ASSESSMENT

Permit application requirements

12. An application for a permit in terms of these Regulations must —
- (a) be in the form and contain the particulars set out in Schedule 2;
 - (b) be accompanied by the application fee prescribed in Schedule 3;
 - (c) be accompanied by the risk assessment report referred to in regulation 14(3);
 - (d) include additional information required by the issuing authority;
 - (e) be lodged —
 - (i) in duplicate with the issuing authority together with additional copies as may be required by the issuing authority;
 - (ii) electronically, if required by the issuing authority; and
 - (iii) with the original or certified documentation in support of the application required by the issuing authority.

Risk assessment

13. (1) Unless otherwise determined by the issuing authority, an assessment of risks and potential impacts on biodiversity, of a restricted activity involving a specimen of an alien species and listed invasive species, must consider the following:
- (a) information regarding the relevant alien and listed invasive species, including-
 - (i) the taxonomy of the species, including the class, order, family, scientific name, scientific synonyms and common names of the species;
 - (ii) the originating environment of the species, including climate, extent of geographic range and trends;
 - (iii) persistence attributes of the species, including reproductive potential, mode of reproduction, dispersal mechanisms and undesirable traits;
 - (iv) invasive tendencies of the species elsewhere and taxonomic predisposition;

- (v) the history of domestic propagation or cultivation of the species, introductions and the extent of naturalisation; and
 - (vi) nutritional or dietary requirements of the species and, where applicable, whether it enjoys a specialist or generalist diet; and
 - (b) information regarding the restricted activity in respect of which the permit is sought, including:
 - (i) The nature of the restricted activity;
 - (ii) the reason for the restricted activity;
 - (iii) the location where the restricted activity is to be carried out;
 - (iv) the number and, where applicable, the gender of the specimens of the species involved; and
 - (v) the intended destination of the specimens, if they are to be translocated; and
 - (c) information regarding the receiving environment, including —
 - (i) climate match;
 - (ii) habitat;
 - (iii) the presence of natural enemies, predators and competitors; and
 - (iv) the presence of potentially reproductive compatible species.
 - (d) any other information that the issuing authority may determine.
- (2) identify —
- (a) the probability that the species will naturalise in the area in which the restricted activity is to be undertaken or elsewhere in the Republic; and
 - (b) the probable impact of the species on the biodiversity and sustainable use of natural resources of—
 - (i) the area in which the restricted activity is to be undertaken; and
 - (ii) elsewhere in the Republic;
 - (c) the risks and potential impacts on biodiversity by the species to which the application relates;
 - (d) the risks of the specimen serving as a vector through which specimens of other alien species may be introduced;

- (e) the risks of the method by which a specimen is to be introduced or the restricted activity carried out serving as a pathway through which specimens of other alien species may be introduced; and
 - (f) any measures to manage the risks.
- (3) based on the information in subregulation (1) and (2), consider –
- (a) the likelihood of the risks being realised;
 - (b) the severity of the risks and consequences of the realisation of the risks for other species, habitats and ecosystems;
 - (c) the potential costs associated with the control or eradication of the species to minimise harm to biodiversity;
 - (d) options for minimising the potential risks; and
 - (e) management of the potential risks.

Risk assessment report

14. (1) Unless otherwise determined by the issuing authority, a risk assessment referred to in regulation 13 must be undertaken —

- (a) by an environmental assessment practitioner; and
- (b) at the costs of the applicant.

(2) If the applicant is responsible for the appointment of the environmental assessment practitioner, the applicant must –

- (a) take all reasonable steps to verify whether the environmental assessment practitioner to be appointed complies with regulation 15; and
- (b) provide the environmental assessment practitioner with access to all information at the disposal of the applicant regarding the application, whether or not such information is favourable to the applicant.

(3) The person carrying out the risk assessment must prepare a written report detailing –

- (a) the information required in terms of regulation 13;

- (b) the risk of invasion as a result of the issuing of the permit;
- (c) any risk management measures that must be applied;
- (d) key economic, social and ecological considerations that have guided the outcome of the risk assessment; and
- (e) any conditions that must apply to the issuing of a permit.

General requirements for an environmental assessment practitioner

15. An environmental assessment practitioner referred to in regulation 14(1) must —
- (a) be independent; and
 - (b) have expertise in conducting risk assessments, including knowledge of the Act, these regulations and any guidelines that have relevance to the proposed application.

CHAPTER 5

ISSUING, AMENDMENT AND CANCELLATION OF PERMITS

Decision on application

16. (1) On receipt of an application for a permit in terms of regulation 12 and such further information as the issuing authority may require, the issuing authority must consider the application and reach a decision.
- (2) After reaching a decision on an application, the issuing authority must-
- (a) notify the applicant of the decision, in writing;
 - (b) if the application was approved, issue a permit in the name of the applicant within 14 working days; and
 - (c) if requested, give reasons for the decision.

Conditions subject to which permit may be issued

17. (1) A permit may be issued —
- (a) for —
 - (i) multiple restricted activities;

- (ii) multiple specimens of a species; or
 - (iii) multiple species;
- (b) subject to the condition that the permit may be cancelled if the issuing authority obtain information indicating that the alien species or the listed invasive species or the restricted activity involving an alien species or listed invasive species for which the permit was issued, may be detrimental to biodiversity.

(2) Notwithstanding subregulation (1)(a) a permit for the import into the Republic, including introducing from the sea, an alien species or listed invasive species may only be valid for one consignment.

Form and contents of permits

18. (1) A permit shall be in the form as prescribed in Schedule 4.
- (2) A permit must —
- (a) contain a sequential permit number;
 - (b) be in writing;
 - (c) specify—
 - (i) the person to whom it applies and their identity or registration number;
 - (ii) the species to which it relates;
 - (iii) the restricted activities for which the permit is issued;
 - (iv) the period for which the permit remains valid.
 - (d) be signed by the issuing authority and certified by means of an official stamp;
 - (e) contain conditions, if any.

Period of validity of permits

19. (1) A permit authorising —
- (a) the possession of an alien or listed invasive species may not exceed five years.

(b) the undertaking of any other restricted activity may be issued for a period not exceeding twelve months.

(2) Notwithstanding the provisions of subregulation (1) a permit may be issued for a longer period under the following circumstances:

- (a) If the restricted activity will be carried out by a captive breeding operation, commercial exhibition facility, nursery, scientific institution or sanctuary; or
- (b) possession of an alien species or a listed invasive species for personal use.

Transferability of permits

20. A permit may not be transferred to any other person.

Automatic lapsing of permits

21. A permit shall automatically lapse if the alien species to which it relates is subsequently prohibited by the Minister, by notice in the Gazette, in terms of section 67 of the Act.

Cancellation of permits

22. (1) An issuing authority which issued a permit may cancel the permit if –

- (a) the permit was issued as a result of misleading or false representations by the applicant; or
- (b) the applicant or permit holder has contravened or failed to comply with –
 - (i) any condition of the permit; and
 - (ii) any provision of the Act or other law governing the permitted activity.
- (c) information is obtained by the issuing authority indicating that the alien species or listed invasive species or the restricted activity involving an alien species or listed invasive species for which the permit was issued is likely to have a detrimental impact to biodiversity.

(2) Before cancelling a permit in terms of subregulation (1) or amending the conditions to a permit, the issuing authority must notify a permit holder in writing of his

or her intention to do so and provide him or her with an opportunity to make representations as to why the permit should not be cancelled.

(3) The issuing authority must, if he or she decides to cancel a permit or amend conditions of a permit after consideration of any representations in terms of subsection (2), notify the permit holder in writing that —

- (a) the permit is cancelled or that the condition(s) have been amended; and
- (b) the date upon which the cancellation or amendment becomes effective.

Return of cancelled permits

23. A permit cancelled in terms of regulation 22, must be returned to the issuing authority within 30 days of the date of cancellation.

Renewal of permits

24. (1) A permit holder may apply to the issuing authority that issued the permit for the renewal of the permit.

(2) An application referred to in subregulation (1) must be —

- (a) made 60 days before the expiry of the period for which the permit was issued;
- (b) in writing; and
- (c) accompanied by —
 - (i) a written motivation setting out the reasons for the application; and
 - (ii) the applicable processing fee as set out in Schedule 3.

Consideration and decision of renewal applications

25. (1) On receipt of an application in terms of regulation 24, the issuing authority—

- (a) must consider the application; and
- (b) may require the permit holder to furnish additional information.

(2) After having reached a decision on an application for renewal, the issuing authority must —

- (a) notify the permit holder of the decision, in writing;
- (b) if the application was approved, issue a new permit in the name of the permit holder;
- (c) if the application was refused, draw the permit attention to the fact that an appeal may be lodged against the decision in terms of regulation 24; and
- (d) if requested, give reasons for the decision.

Lodging of appeals

26. (1) A person aggrieved by a decision of an issuing authority to issue a permit conditionally, refuse a permit, cancel a permit or refuse to renew a permit, may lodge an appeal within 30 days after being notified of a decision taken by the issuing authority, with the —

- (a) MEC of the relevant province, if the issuing authority is the provincial department; or
- (b) Minister, if the issuing authority is the Director-General.

(2) An appeal referred to in subregulation (1) must —

- (a) be in writing;
- (b) set out the grounds of appeal in the form of an affidavit attested to before a Commissioner of Oaths;
- (c) be accompanied by any supporting documentation referred to in the appeal and not in the Minister or MEC's possession;
- (d) be supported by original or certified documentation; and
- (e) be accompanied by the applicable processing fee as set out in Schedule 3;

(3) The original and one copy of the appeal documents must be lodged with the Minister or MEC and one copy must be lodged with the issuing authority.

Processing of appeals

27. (1) After receipt of an appeal, the Minister or MEC must —
- (a) within 14 days acknowledge receipt of the appeal;
 - (b) advise the appellant and other persons who have responded to the appeal if further information is required;
 - (c) request from the issuing authority—
 - (i) reasons for the decision against which the appeal is lodged; and
 - (ii) all relevant documentation in the possession of the issuing authority that was taken into account when the decision was made.

(2) Any further information that the Minister or MEC may require, must be submitted to the Minister or MEC, within 14 days of it being requested.

(3) If the Minister or MEC decides to appoint an appeal panel, the appeal and all the documentation in connection with the appeal must be submitted to that appeal panel.

Appeal panels

28. (1) If an appeal panel consists of —
- (a) two members, a decision of the panel must be unanimous; or
 - (b) more than two members, the decision of the majority of the members of the panel prevails.
- (2) An appeal panel must —
- (a) consider an appeal within 30 days of its designation for the relevant appeal in terms of the Act; and
 - (b) inform the Minister or MEC in writing of its recommendation.

Decision on appeals

29. A decision of the Minister or MEC must —
- (a) indicate the extent to which the decision being appealed against is upheld or overturned;

- (b) give reasons for the decision; and
- (c) be conveyed to the appellant in writing within 14 days of the decision.

CHAPTER 6

COMPLIANCE AND ENFORCEMENT

Non-compliance with permit conditions

- 30.** (1) A permit holder must notify the issuing authority of any incident that may affect compliance with the conditions of the permit.
- (2) Notification in terms of subregulation (1) must —
 - (a) be made as soon as possible after the permit holder became aware of the incident; and
 - (b) must be in writing, unless the incident is likely to result in the loss of biodiversity it must be done verbally and in writing.

Requests for directives

- 31.** (1) A competent authority may of its own accord or at the request of any person issue a directive if —
- (a) a person carries out a restricted activity involving an alien species or a listed invasive species without a permit;
 - (b) a person authorised by a permit to carry out a restricted activity involving an alien species or a listed invasive species does not comply to the conditions of the permit; or
 - (c) a person, who is the owner of land on which listed invasive species occur, fails to -
 - (i) notify the competent authority of the listed invasive species occurring on that land;
 - (ii) take steps to control and eradicate the listed invasive species and the prevent it from spreading; and
 - (iii) take all the required steps to prevent or minimize harm to biodiversity.

(2) The request to issue a directive in terms of subregulation (1) must be in the format set out in Schedule 6.

(3) The request to issue a directive in terms of subregulation (1) must contain the following information:

- (a) The full names of the person making the request, if applicable;
- (b) the address and contact telephone number of the person making the request;
- (c) the name of the person who owns or is in control of the area to which the request relates;
- (d) the contact details of the person who owns or is in control of the area to which the request relates;
- (e) a detailed description of the area to which the request relates including, where the request relates to land, the cadastral description of the property;
- (f) a description of the listed invasive species to which the request relates; and
- (g) details of all steps taken by the person making the request to address the problem with the person who owns or is in control of the area to which the request relates (if applicable).

(4) A competent authority may waive any of the requirements of subregulation (3).

Format of directives

32. A directive issued by a competent authority in terms of section 69(2) or 73(3) of the Act-

- (a) must be issued to a person;
- (b) must contain the following information:
 - (i) The name, or identities of the persons to whom it is directed;
 - (ii) the area to which the directive applies;
 - (iii) the scientific and common names of the alien or listed invasive species to which the directive relates;

- (iv) the restricted activity to which the directive relates;
 - (v) the measures to be adopted to ensure compliance with the Act;
 - (vi) the date by when the measures must be adopted;
 - (vii) the full names and designation of the official representing the competent authority;
 - (viii) the date of issue of the directive; and
 - (ix) any other information or requirements considered necessary for the proper application of these Regulations; and
- (c) may indicate the manner in which the listed invasive species are to be controlled and the period within which the measures to control the listed invasive species must be implemented;
 - (d) must state that it is a criminal offence not to comply with the directive; and
 - (e) must be in the format set out in Schedule 5.

Service of directives

33. (1) A directive issued in terms of section 69(2) or 73(3) of the Act may be served on a person by –

- (a) delivering it to the person or to his or her authorised representative;
- (b) delivering it to the person in control of the area to which the directive applies;
- (c) in the case of a juristic person, delivering it to the registered office of the juristic person; or
- (d) forwarding it by registered post to the person.

(2) When a directive is served —

- (a) in terms of subregulation (1)(a), (b), (c) or (d) the person by whom it was delivered must after delivery thereof, record in writing the manner in which, the person to whom, the place at which and the date on and approximate time at which the directive concerned was thus delivered; and
- (b) a copy of the directive must be made available to the issuing authority.

- (3) If a directive has been served —
- (a) in terms of subregulation (1)(d), the competent authority must obtain and retain as evidence, proof of posting; and
 - (b) in terms of subregulation (1)(a), (b), (c) or (d), the competent authority must retain the copy of the directive as evidence of the service thereof.

(4) The documentation referred to in subregulation (3) is proof of service in any legal proceedings relating to that directive.

Monitoring of compliance

34. A competent authority may —

- (a) at the time of issuing a directive identify-
 - (i) the steps that the competent authority will take to monitor compliance with the directive and the provisions of the Act; and
 - (ii) the dates upon which such steps will be taken.
- (b) on the dates referred to in subregulation (a)(ii), carry out the steps identified in terms of subregulation (a)(i).

Record of directives

35. A competent authority must —

- (a) keep a record of all directives issued;
- (b) state in the record-
 - (i) the person to whom the directive was issued;
 - (ii) the scientific and common name of the species for which the directive was issued;
 - (iii) the restricted activity for which the directive was issued;
 - (iv) the location where the restricted activity was undertaken;
 - (v) the measures to be adopted in terms of the directive;
 - (vi) the date by when the measures must be adopted;

- (vii) the steps that the competent authority will take to monitor compliance with the directive and the dates upon which such steps will be taken.
- (viii) pursuant to subregulation (vii)-
 - (aa) the steps taken by the competent authority;
 - (bb) the dates upon which the steps were taken; and
 - (cc) the extent of compliance with the directive by those dates.
- (c) within three months of the end of each calendar year submit to the Institute a written report containing the following information-
 - (i) a list of all directives;
 - (ii) the information recorded in terms of subregulation (b) for each directive; and
 - (iii) any other information required by the Institute for the proper application of these Regulations;

Withdrawal of directives

36. A directive issued in terms of these Regulations may be withdrawn in writing by the competent authority when the circumstances giving rise to the issue of the directive no longer exist.

Presumptions

37. In any legal proceedings, a person alleging that a specimen of an alien species is an exempted alien species shall bear the onus of proving that the specimen is so exempted.

Offences

38. A person is guilty of an offence if that person –
- (a) carries out a restricted activity or a prohibited activity involving an alien species or a listed invasive species without a permit issued by an issuing authority;
 - (b) fails to comply with the conditions under which a permit has been issued;

- (c) fabricates or forges any document for the purpose of passing it as a permit or certificate of registration;
- (d) knowingly makes any false statement or report for the purpose of obtaining a permit or certificate of registration;
- (e) fails to notify a competent authority regarding the occurrence of listed invasive species on its land, if he or she is the owner of that land; or
- (f) fails to implement a directive issued by a competent authority.

Penalties

39. (1) A person convicted of an offence in terms of regulation 38, involving an alien species or listed invasive species is liable to —

- (a) a fine;
- (b) to imprisonment for a period not exceeding five years; or
- (c) to both a fine and such imprisonment.

(2) A fine in terms of subregulation (1) may not exceed an amount prescribed in terms of the Adjustment of Fines Act, 1991 (Act No. 101 of 1991)

Name and commencement date

40. These Regulations are called the Alien and Invasive Species Regulations, 2007 and take effect on a date determined by the Minister by Notice in the Government Gazette.

SCHEDULE 1

Listed Invasive Species Notification Form

Explanatory Note:

In terms of section 73(2)(a) of the Act the owner of land on which a listed invasive species occur must notify any relevant Competent Authority in writing, of the listed invasive species occurring on that land.

For official use:

Reference number:

Date:

1. LAND OWNERS DETAILS:

Full Name:.....

Identity

Number:.....

Postal Address:.....

.....

...

Postal Code:.....

Telephone Number: (Code:.....).....

Fax Number: (Code:).....

Cellular Number:.....

E-mail Address:

2. SITE AND SPECIES DETAILS:

1. Name (if applicable), province/magisterial district, erf number:

.....

.....

.....

.....

- 2. Listed invasive species occurring on land (Attach list if space is insufficient):
 Scientific name:
 Common name:

- 3. Extent of the infestation of each species (estimated number of specimens/area infested) and density of infestation (e.g. isolated specimens, small groups, large groups; sparse, dense, very dense) (Provide information relating to each species in an Annex to the form)

- 4. If appropriate, please provide details on the location of the listed invasive species on the property. Please mark on a separate 1:50,000 map or aerial photo.

- 5. What measures have been adopted to monitor, control and/or eradicate the invasive species listed in 2(2) above?

I, the undersigned, [FULL NAME:]

.....

confirm that the above information is correct and complete to the best of my knowledge.

SIGNED: DATE:

SCHEDULE 2**Permit Application Form****Explanatory Note:**

In terms of section 65(1) and 71(1) a person may not carry out a restricted activity involving an alien species or a listed invasive species without a permit.

For official use:

Reference number:

Date:

Permit approved**Permit refused****Reason:****1. Personal details:**

Name of Applicant:.....

Identity Number:.....

Company (if applicable):.....

Physical address:.....

.....

.....

Postal code:.....

Postal address:.....

.....

.....

Postal code:.....

Telephone Number: (Code:)

Fax Number: (Code:)

Cellular Number:.....

E-mail address:.....

2. Species information:

Scientific Name	Common Name	Description	Quantity (number / mass)
-----------------	-------------	-------------	-----------------------------

3. Restricted activity for which permit is required:

Tick the appropriate box/-es; encircle the relevant activity and complete the appropriate sections

- 3.1 Import into the Republic (complete section 4)
- 3.3 Possession (complete section 5)
- 3.4 Growing / Breeding / Propagating (complete section 6)
- 3.5 Conveying / Moving / Translocating (complete section 7)
- 3.6 Selling / Trading / Buying (complete section 8)
- 3.7 Receiving / Giving / Donating (complete section 9)
- 3.8 Disposal / Acquisition (complete section 10)

4. Details required for import into the Republic:

4.1 Full name and address of foreign supplier / exporter

.....

.....

.....

.....

4.2 Full Name and address of importer & final destination

.....
.....
.....
.....
.....

4.3 Port of Entry:

.....

4.4 Expected Date of Arrival:

.....

5. Details required for possession

5.1 Name and address of person taking possession of specimen/s (if different from applicant):

.....
.....
.....
.....

5.2 Premises (address) where specimen will be kept:

.....
.....
.....

6. Details required for growing/breeding/propagating

6.1 Name:

.....

6.2 Type of facility:

Tick appropriate box/-es:

Nursery – Wholesale

Nursery – Retail

- Museum
- Zoo
- Captive breeding operation
- Game farm
- Other (specify):

6.3 Address of the facility where this restricted activity is to be carried out:

.....

.....

.....

.....

6.4 Date of establishment:.....

7. Details required for conveying/moving/translocating

7.1 Conveyed/Moved/Translocated from (name & address):

.....

.....

.....

7.2 Conveyed/Moved/Translocated to (name & address):

.....

.....

.....

7.3 Expected date & duration of activity:

.....

7.4 Method:

.....

.....

.....

.....

8. Details required for selling/trading/buying

8.1 Address of premises from where the restricted activity is to be carried out:

.....

.....

.....
8.2 Name and address of buyer / purchaser / trader
.....
.....
.....

9. Details required for receiving/giving/donating

9.1 Name and address of giver/donator
.....
.....
.....

9.2 Name and address of recipient
.....
.....
.....

10. Details required for disposal/acquisition

10.1 Address of premises where activity is to be carried out:
.....
.....
.....

10.2 Proposed method of disposal / acquisition
.....
.....

10.3 Reason/s for disposal / acquisition
.....
.....

I, the undersigned, [FULL NAME:]
.....

confirm that the above information is correct and complete to the best of my knowledge.

SIGNED: DATE:

SCHEDULE 3

Prescribed Permit Application Fees for Alien species and Listed Invasive Species

Explanatory Note:

In terms of section 97(1)(f)(ii) of the Act the Minister may prescribed the fees to be paid in connection with the lodging and consideration of applications for permits .

	Activity	Fee
	Import into the Republic	R200.00
	Possession	R50.00
	Growing / Breeding / Propagating	R50.00
Alien & listed Invasive species	Conveying / Moving / Translocating	R50.00
	Selling / Trading / Buying	R50.00
	Receiving / Giving / Donating	R50.00
	Disposal / Acquisition	R50.00
	Renewal of permit	R50.00

SCHEDULE 4**Permit**

This permit is issued in terms of Chapter 7 of the National Environmental Management: Biodiversity Act.

Permit number:

Date Issued:

Valid until:

Address of Issuing Authority:**Permit Holder Details:**Name:Address:**Exporter/Purchaser/Seller/Trader details:****Premises where restricted activity will be carried out:**Name:Address:Address:**Restricted activity for which permit is issued:** (Tick the appropriate box & encircle relevant activity)

Import into the Republic
 Possession
 Growing / Breeding / Propagating
 Conveying / Moving / Translocating

Selling / Trading / Buying
 Receiving / Giving / Donating
 Disposal / Acquisition

Species:

Scientific Name

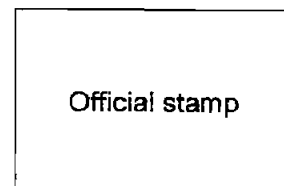
Common Name

Description of the
specimens

Quantity

This permit issued by:

Place



SCHEDULE 5

Directive in terms of section 69(2) or 73(3) of the Act Duty of care relating to alien species OR listed invasive species

Explanatory Notes:

- *In terms of section 69(2) of the Act a competent authority may in writing, direct any person who has failed to comply with permit requirements and conditions to take such steps as may be necessary to remedy any harm to biodiversity caused by the actions of that person as may be specified in the directive.*
- *In terms of section 73(3) of the Act a competent authority may in writing, direct any person who has failed to comply with permit requirement and conditions and/or notification requirements to take such steps as may be necessary to remedy any harm to biodiversity caused by the actions of that person as may be specified in the directive.*

For official use:

Directive number:

Date:

1. DIRECTIVE ISSUED TO:

Full Name:.....

Identity

Number:.....

Physical Address:.....

.....

.....

Postal Code:.....

Postal Address:.....

.....

Postal Code:.....

Telephone Number: (Code:.....),.....

Fax Number: (Code:.....)

Cellular Number:.....

E-mail Address:.....

2. SITE AND SPECIES DETAILS:

2.1 Name (if applicable), province/magisterial district, erf number:

.....
.....

2.2 Alien / Listed invasive species involved (Attach list if space is insufficient):

Scientific name:

.....

Common name:

.....

3. Permit number (if applicable):.....

4. Conditions of the permit (If applicable) (Attach Annex if space is insufficient):

.....
.....
.....
.....

3. DIRECTIVE SPECIFICATIONS

Remedial actions to be taken by responsible person (Attach Annex if space is insufficient):

.....
.....
.....
.....
.....

ISSUED BY:

RECEIVED BY:

DATE:

OFFICIAL STAMP

SCHEDULE 6

Request to issue a Directive in terms of section 74(1) of the Act for a listed invasive species

Explanatory Note:

In terms of section 74(1) of the Act any person may request a competent authority in writing to issue a directive in terms of section 73(3) of the Act.

For official use:

Reference number:

Date:

1. DIRECTIVE REQUESTED BY:

Full Name:.....

Identity

Number:.....

Physical Address:.....

.....

.....

Postal Code:.....

Postal Address:.....

.....

Postal Code:.....

Telephone Number:(Code:.....).

Fax Number: (Code:)

Cellular Number:.....

E-mail Address:.....

2. DIRECTIVE TO BE ISSUED TO

Name:

.....

2.1 SITE AND SPECIES DETAILS:

2.1.1 Name (if applicable), province/magisterial district, erf number or physical address:

.....
.....
.....

2.1.2 Listed invasive species involved (Attach list if space is insufficient):

Scientific name:

.....

Common name:

.....

2.2 REASONS FOR REQUEST

2.2.1 Contravention of permit requirements in terms of section 71(1) and/or associated permit conditions?

Yes

No

If yes, substantiate:

.....
.....

2.2.2 Contravention of notification requirements in terms of section 73(2)(a)?

Yes

No

If yes, substantiate:

.....
.....

2.2.3 Contravention of measure to prevent spreading / control / eradicate in terms of section 73(2)(b)?

Yes

No

If yes, substantiate:

.....
.....

2.2.4 Previous directives not implemented?

Yes

No

If yes, substantiate:

.....
.....

I, the undersigned, [FULL NAME:]

.....

confirm that the above information is correct and complete to the best of my knowledge.

SIGNED: DATE:

ANNEXURE 1

NATURAL DISTRIBUTION RANGES OF INDIGENOUS SPECIES

Artiodactyla / Perissodactyla

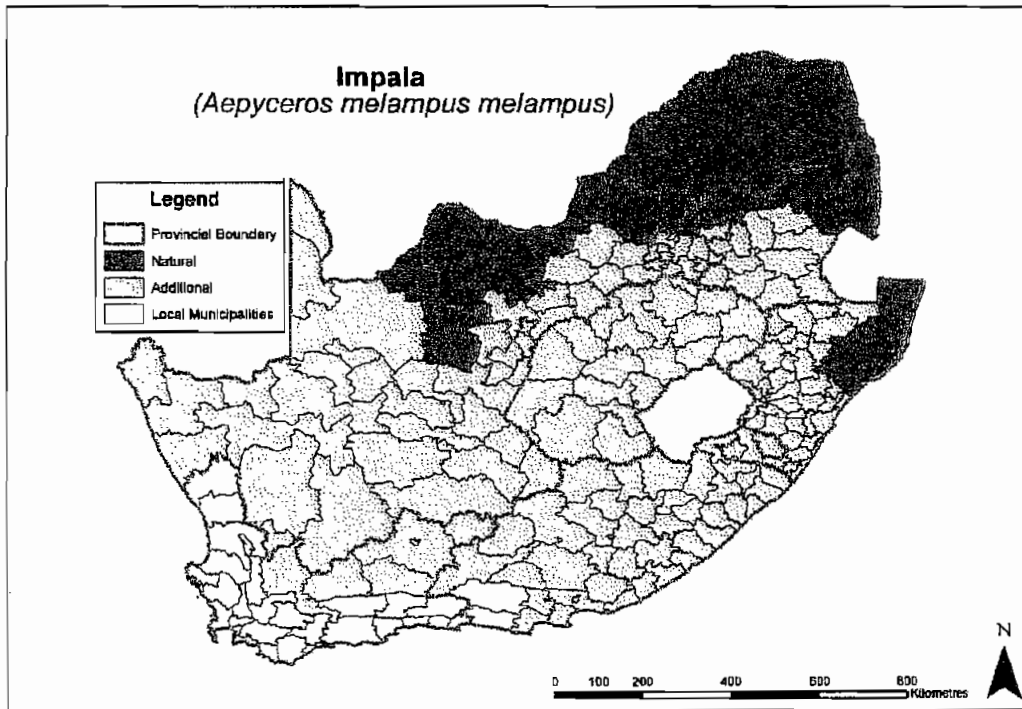
Annexure	Scientific name	Common name
1a	<i>Aepyceros melampus</i>	Impala
1b	<i>Alcelaphus buselaphus</i>	Red hartebeest
1c	<i>Antidorcas marsupialis</i>	Springbok
1c	<i>Cephalophus natalensis</i>	Red duiker
1d	<i>Ceratotherium simum</i>	White rhinoceros
1e	<i>Connochaetes gnou</i>	Black wildebeest
1f	<i>Connochaetes taurinus taurinus</i>	Blue wildebeest
1g	<i>Damaliscus lunatus lunatus</i>	Tsessebe
1h	<i>Damaliscus pygargus phillipsi</i>	Blesbok
1i	<i>Damaliscus pygargus pygargus</i>	Bontebok
1j	<i>Diceros bicornis bicornis</i>	Black rhinoceros – arid ecotype
1k	<i>Diceros bicornis minor</i>	Black rhinoceros
1l	<i>Equus burchellii</i>	Plains zebra
1m	<i>Equus zebra hartmannae</i>	Hartmann's Mountain zebra
1n	<i>Equus zebra zebra</i>	Cape Mountain zebra
1o	<i>Giraffa camelopardalis</i>	Giraffe
1p	<i>Hippopotamus amphibius</i>	Hippopotamus
1q	<i>Hippotragus equinus</i>	Roan antelope
1r	<i>Hippotragus niger niger</i>	Sable antelope
1s	<i>Kobus ellipsiprymnus ellipsiprymnus</i>	Waterbuck
1t	<i>Loxodonta africana</i>	African elephant
1u	<i>Neotragus moschatus zuluensis</i>	Suni
1v	<i>Oreotragus oreotragus</i>	Klipspringer
1w	<i>Oryx gazella</i>	Gemsbok

1x	<i>Ourebia ourebi</i>	Oribi
1y	<i>Palea capreolus</i>	Grey rhebok
1z	<i>Phacochoerus africanus</i>	Warthog
1aa	<i>Philantomba monticola</i>	Blue duiker
1bb	<i>Potamochoerus porcus koiropotamus</i>	Bushpig
1cc	<i>Raphicerus campestris</i>	Steenbok
1dd	<i>Raphicerus melanotis</i>	Cape grysbok
1ee	<i>Raphicerus sharpei</i>	Sharp's grysbok
1ff	<i>Redunca arundinum</i>	Reedbuck
1gg	<i>Redunca fulvorufula</i>	Mountain reedbuck
1hh	<i>Simoceros lichtensteini</i>	Lichtenstein's hartebees
1ii	<i>Sylvicapra grimmia</i>	Grey duiker
1jj	<i>Syncerus caffer</i>	Cape buffalo
1kk	<i>Taurotragus oryx</i>	Eland
1ll	<i>Tragelaphus angasii</i>	Nyala
1mm	<i>Tragelaphus scriptus</i>	Bushbuck
1m	<i>Tragelaphus strepsiceros</i>	Kudu

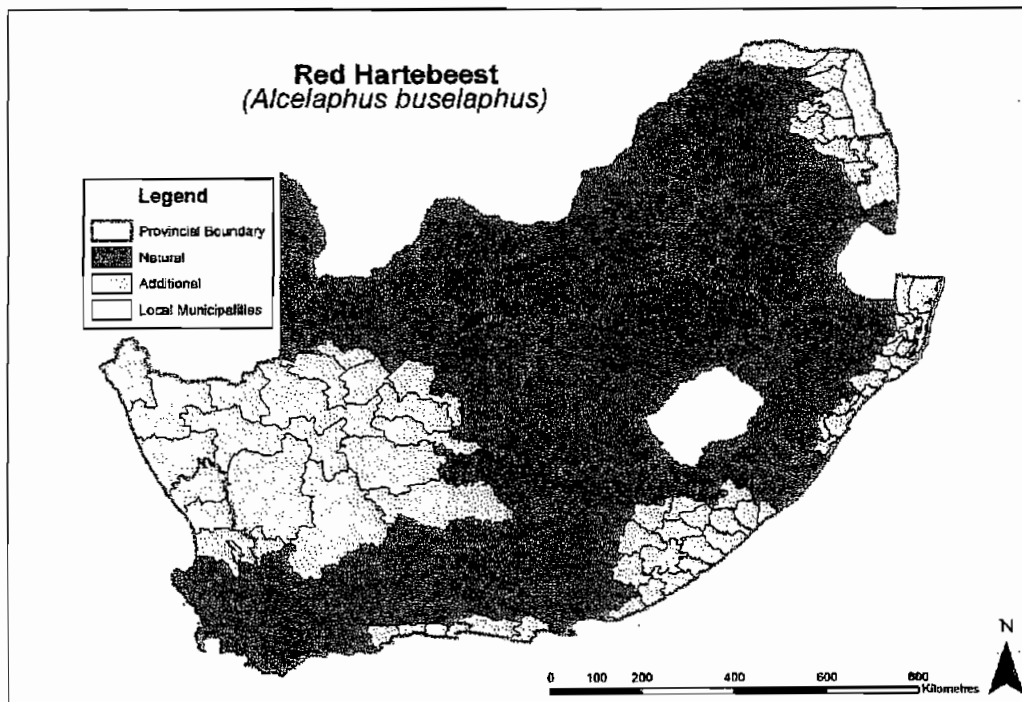
Primata

Annexure	Scientific name	Common name
1oo	<i>Cercopithecus aethiops pygerythrus</i>	Vervet monkey
1pp	<i>Cercopithecus mitis</i>	Samango monkey
1qq	<i>Galago moholi</i>	Southern lesser galago
1rr	<i>Otolemur crassicaudatus</i>	Thick-tailed bushbaby
1ss	<i>Papio ursinus</i>	Chacma baboon

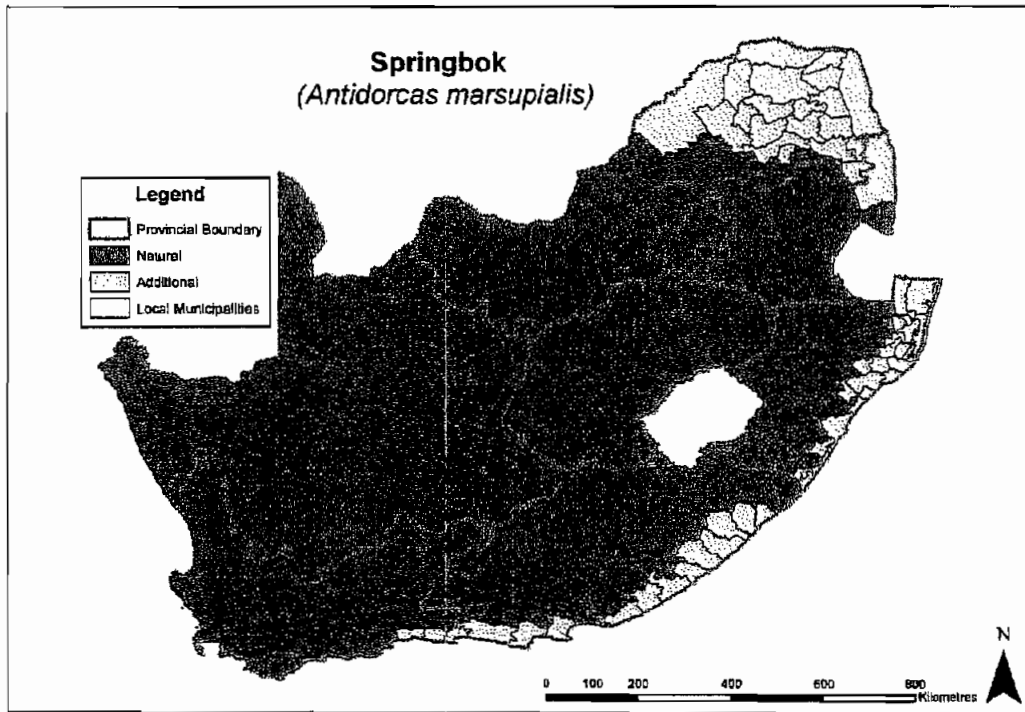
1a *Aepyceros melampus* (Impala)



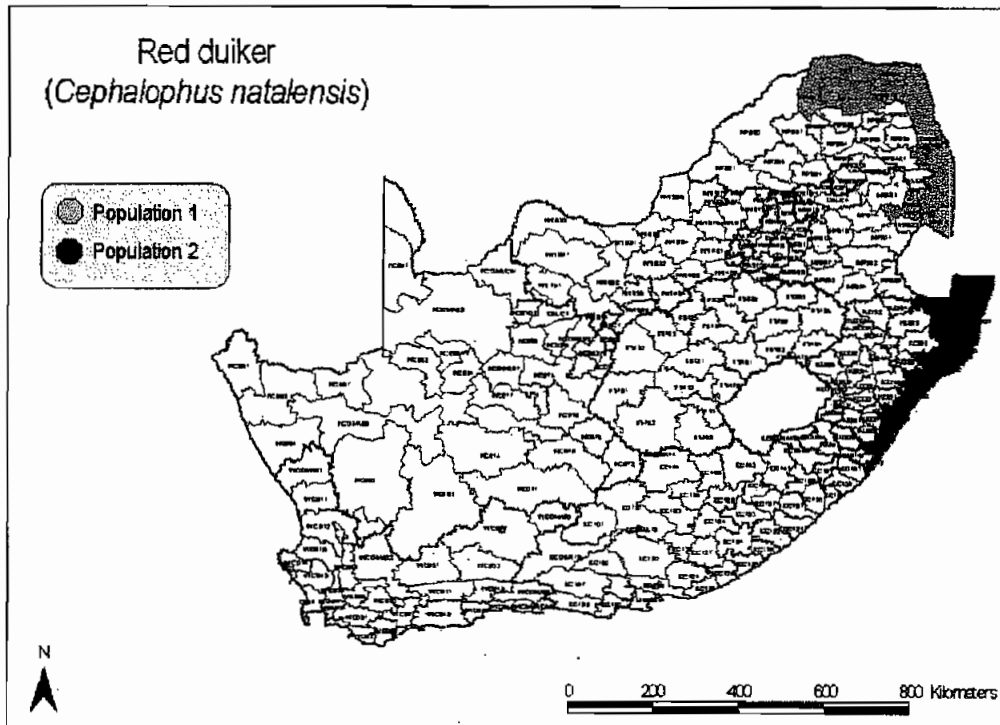
1b *Alcelaphus buselaphus* (Red hartebeest)



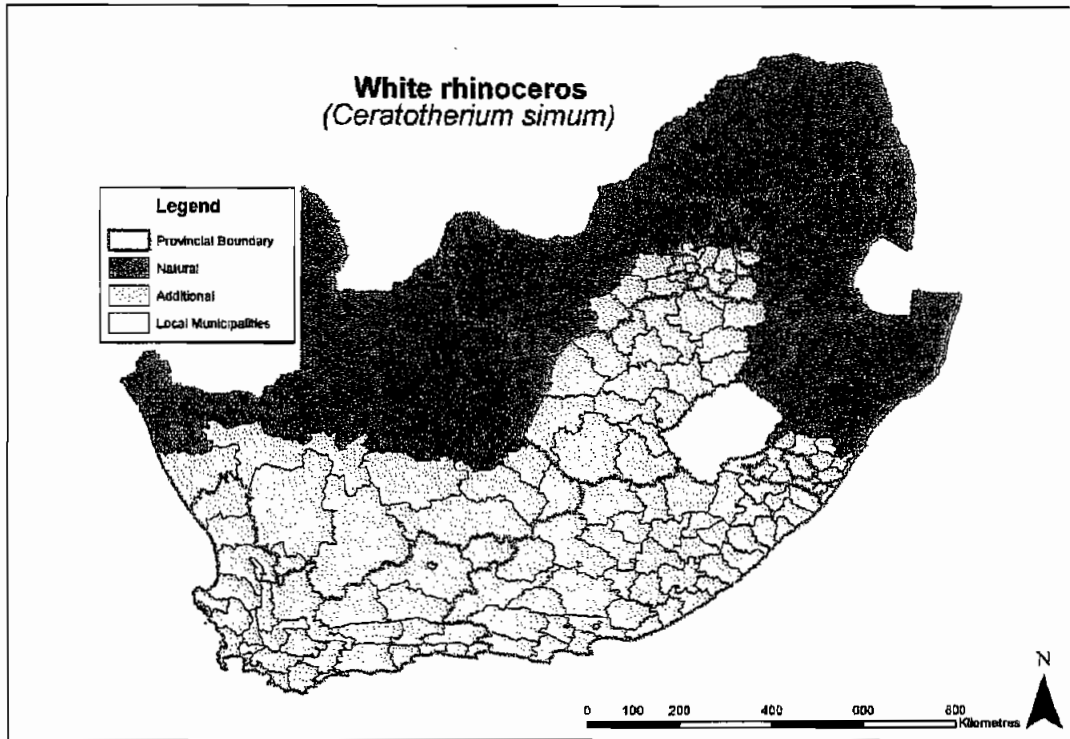
1c *Antidorcas marsupialis* (Springbok)



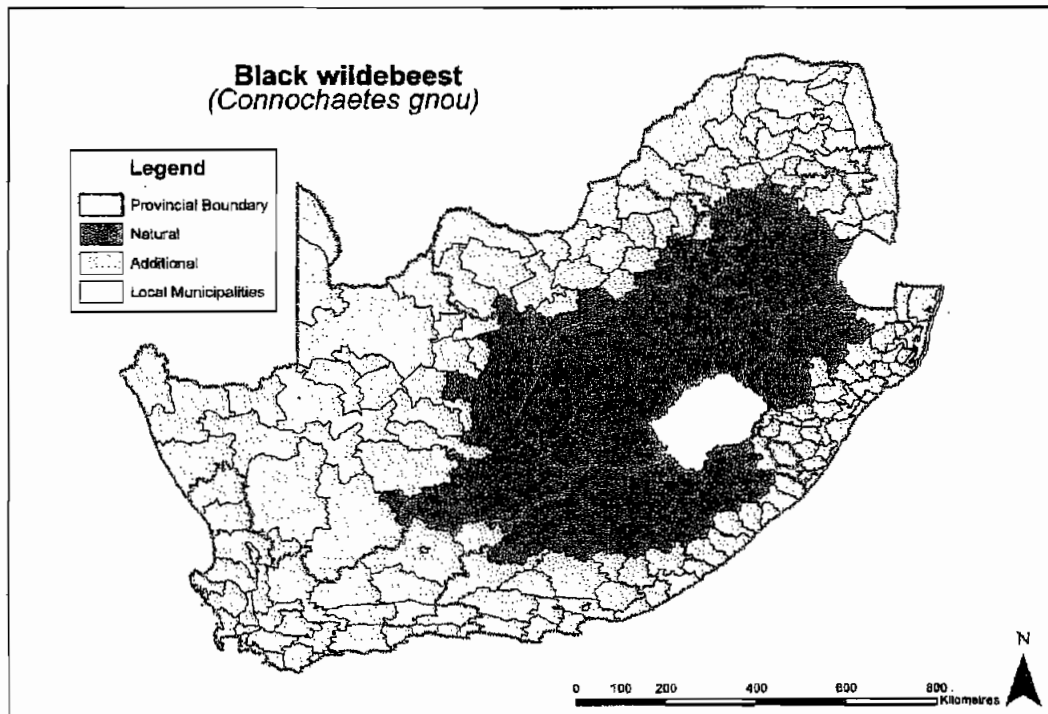
1c *Cephalophus natalensis* (Red duiker)



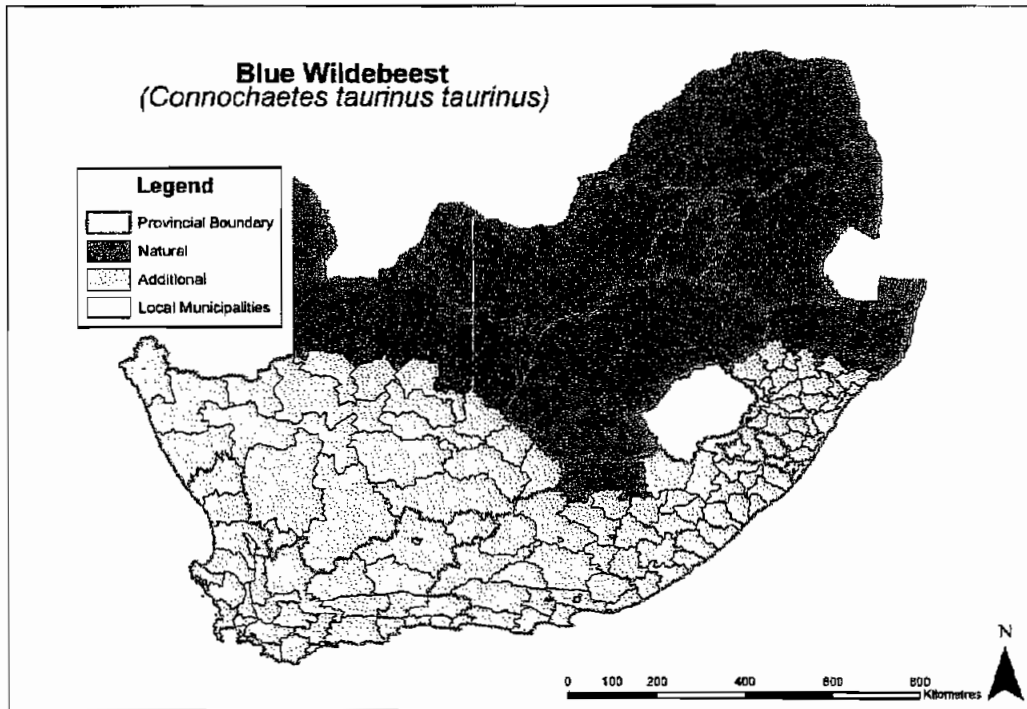
1d *Ceratotherium simum* (White rhinoceros)



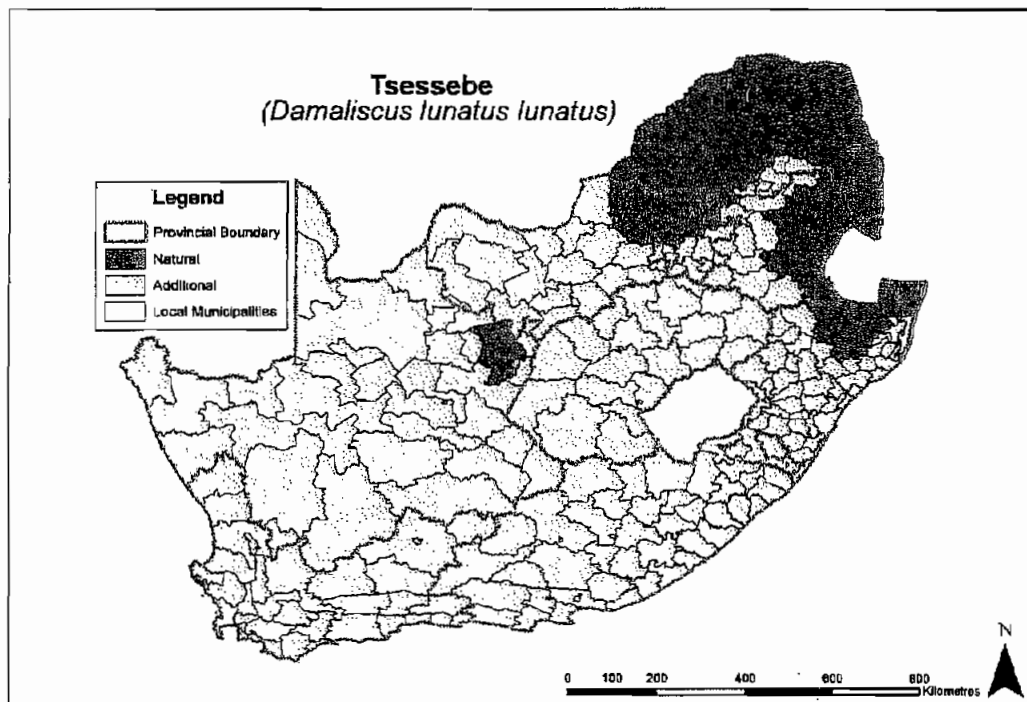
1e *Connochaetes gnou* (Black wildebeest)



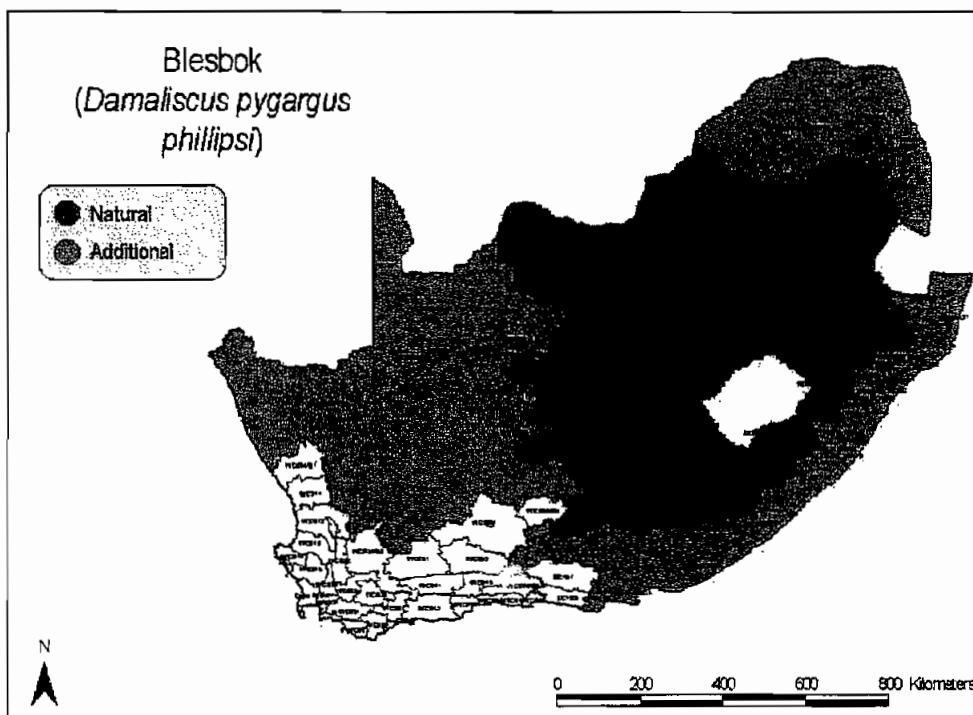
1f *Connochaetes taurinus taurinus* (Blue wildebeest)



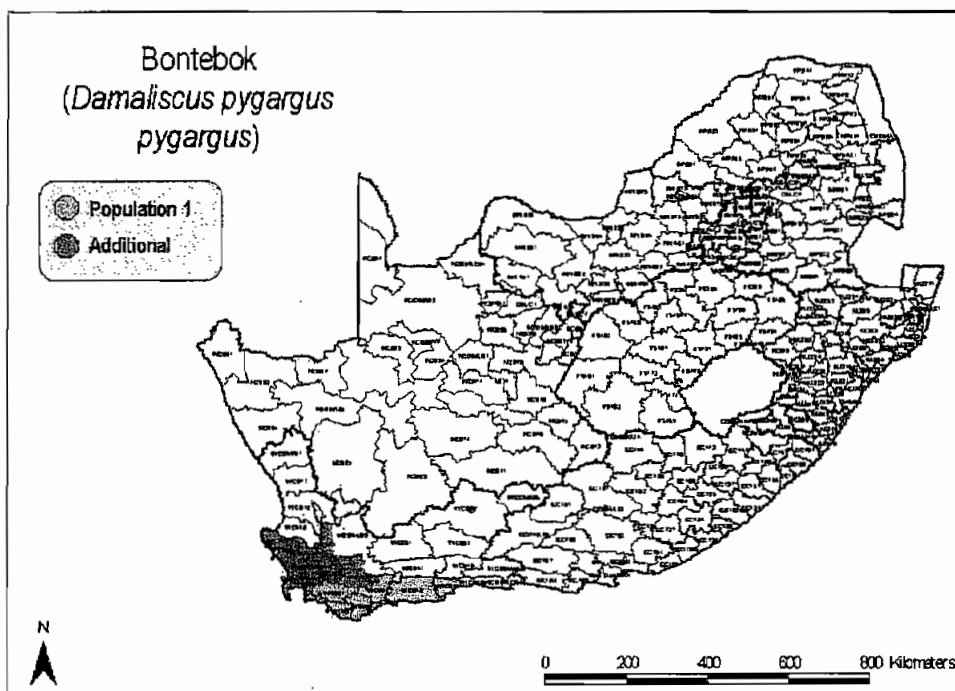
1g *Damaliscus lunatus lunatus* (Tsessebe)



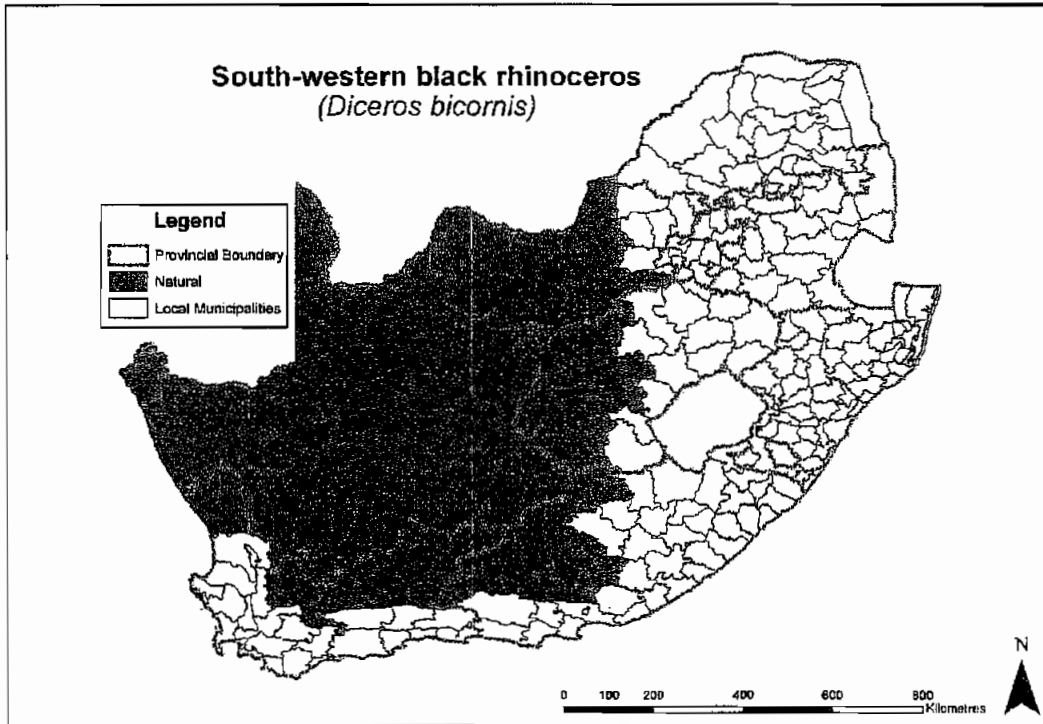
1h *Damaliscus pygargus phillipsi* (Blesbok)



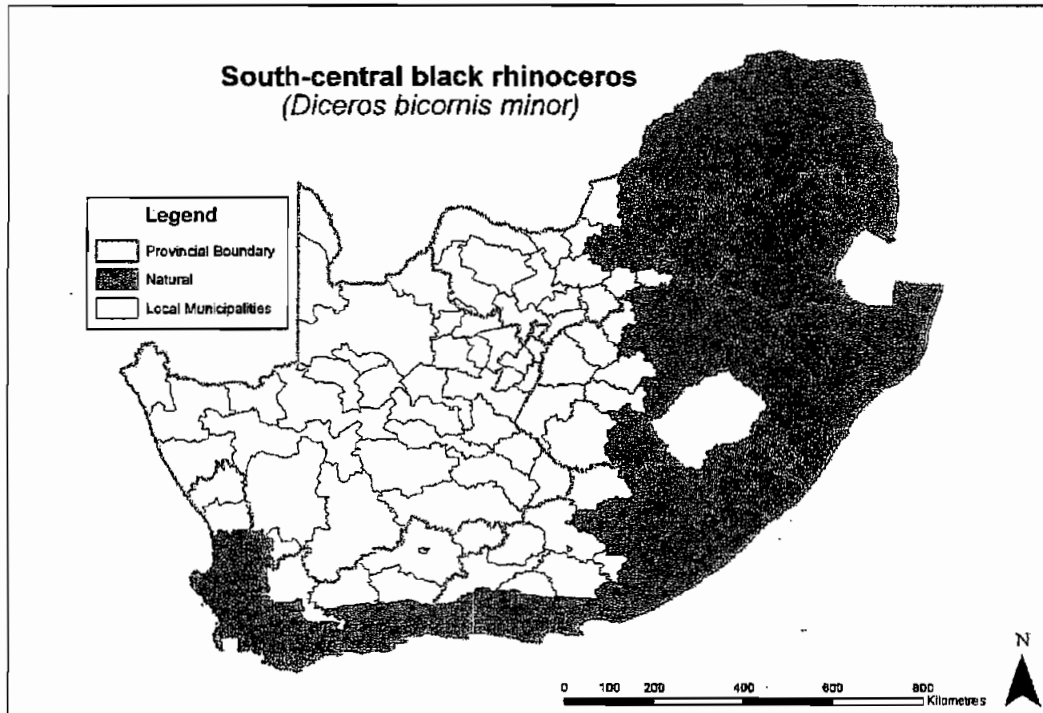
1i *Damaliscus pygargus pygargus* (Bontebok)



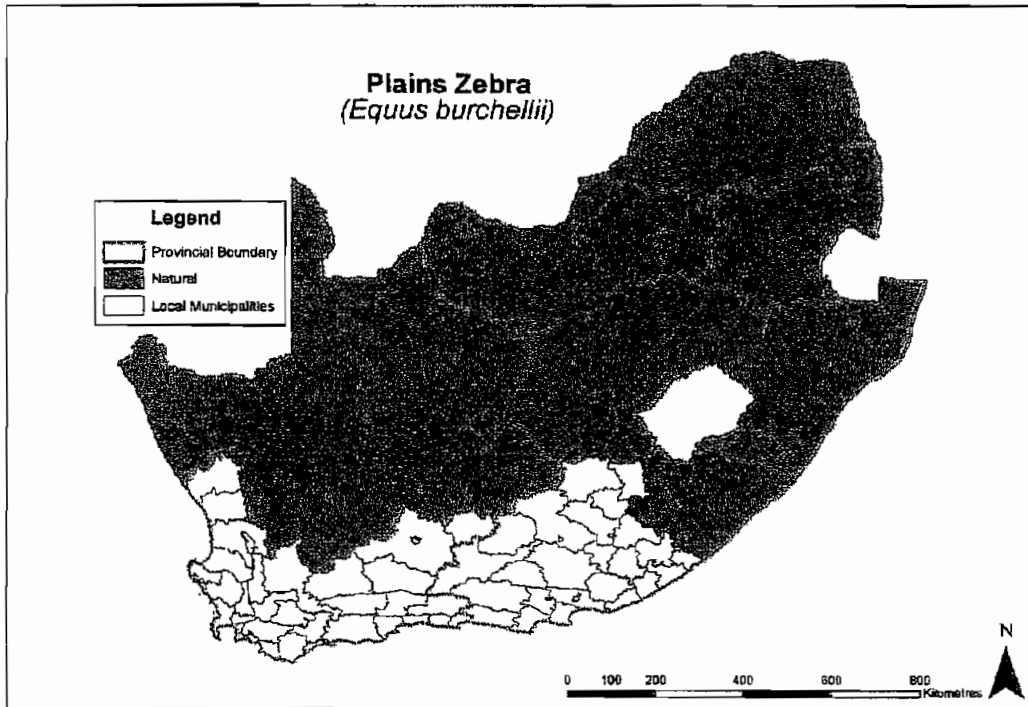
1j *Diceros bicornis bicornis* (Black rhinoceros – arid ecotype)



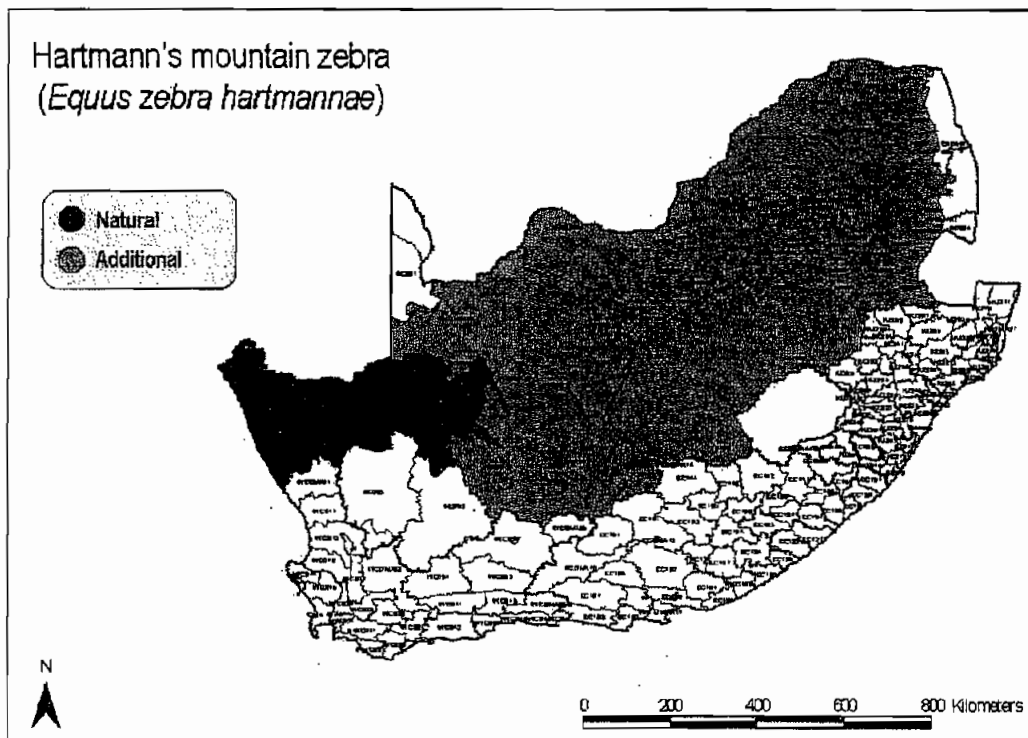
1k *Diceros bicornis minor* (Black rhinoceros)



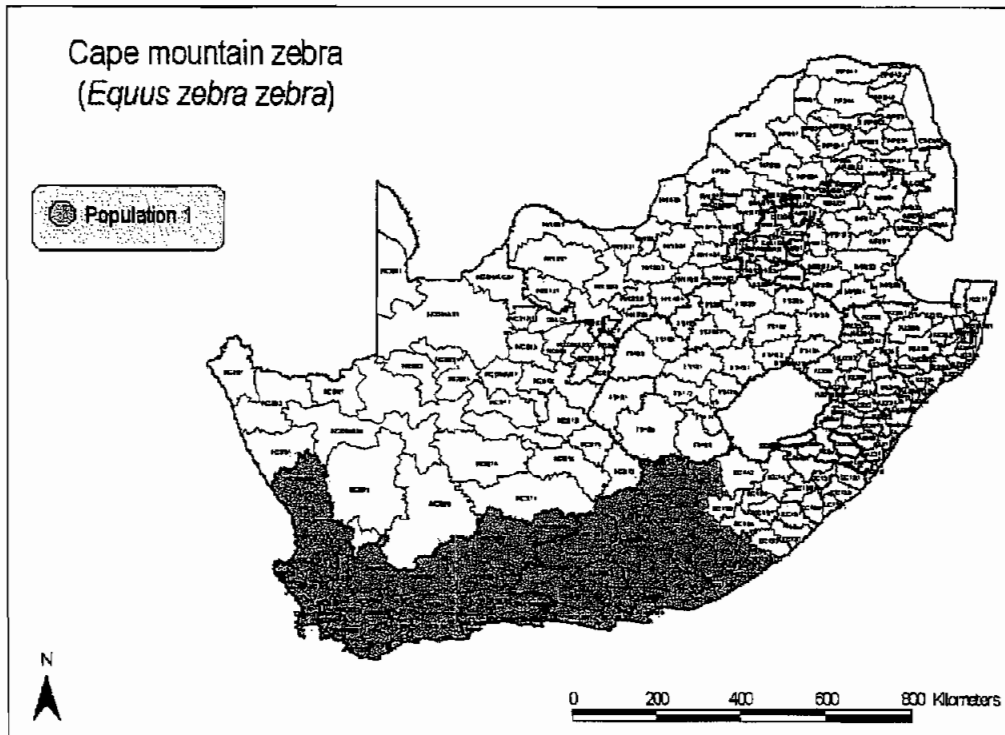
11 *Equus burchellii* (Plains zebra)



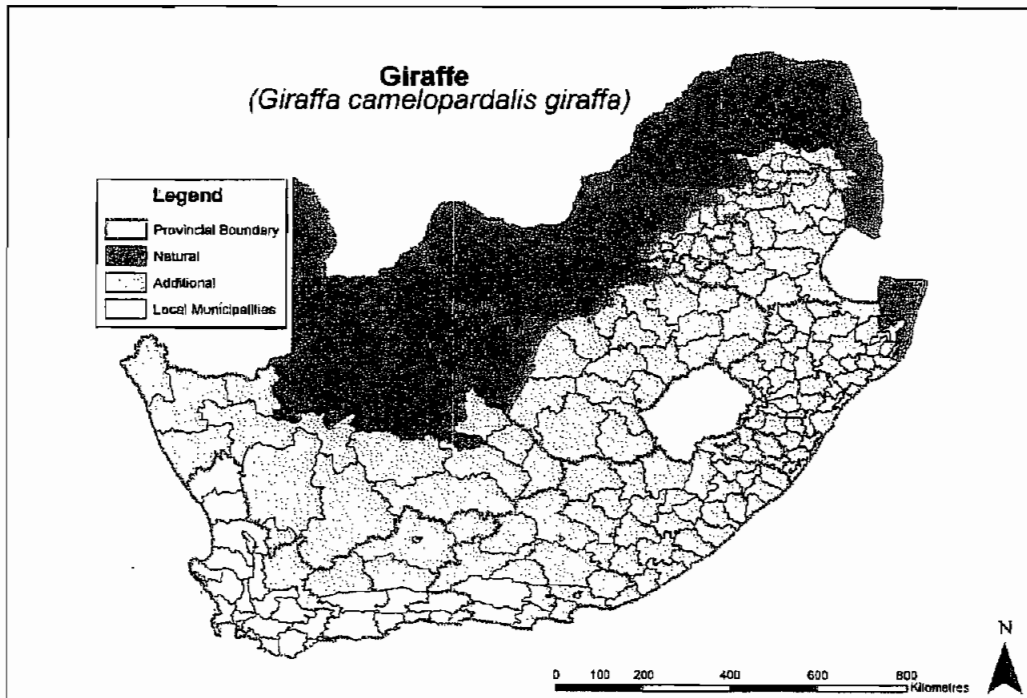
1m *Equus zebra hartmannae* (Hartmann's Mountain zebra)



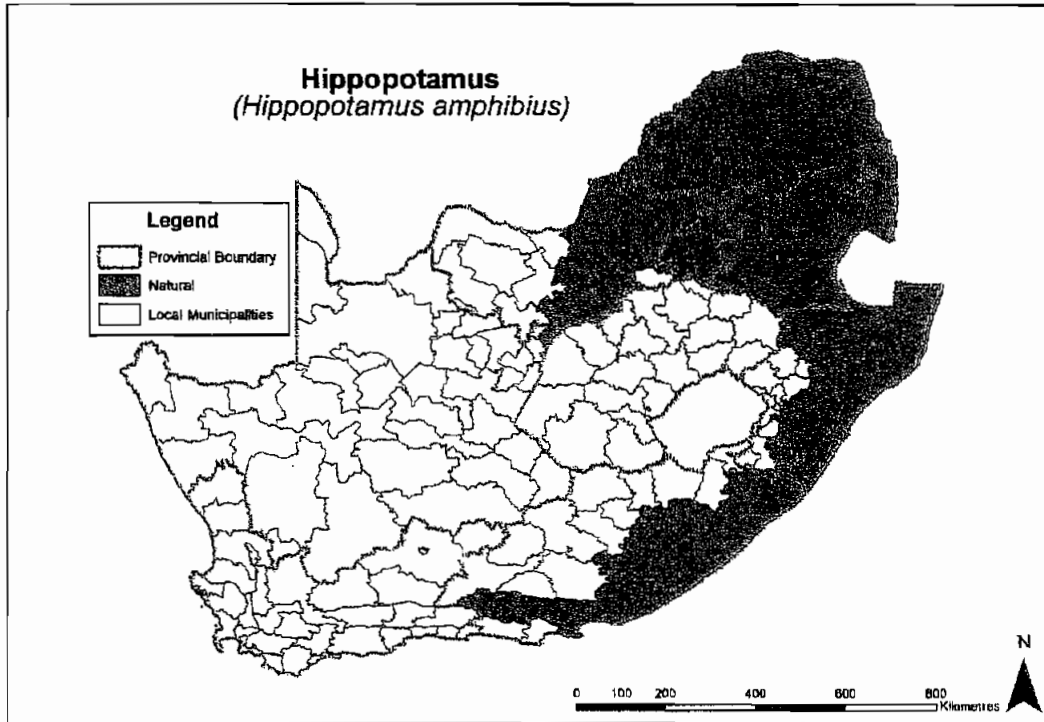
1n *Equus zebra zebra* (Cape Mountain zebra)



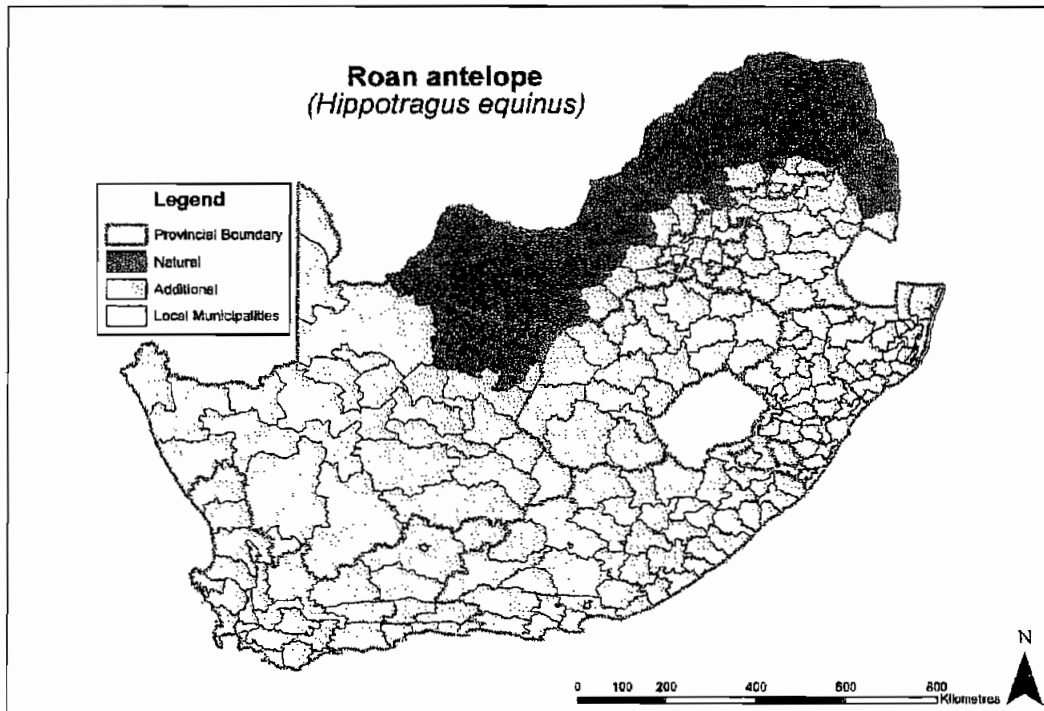
1o *Giraffa camelopardalis* (Giraffe)



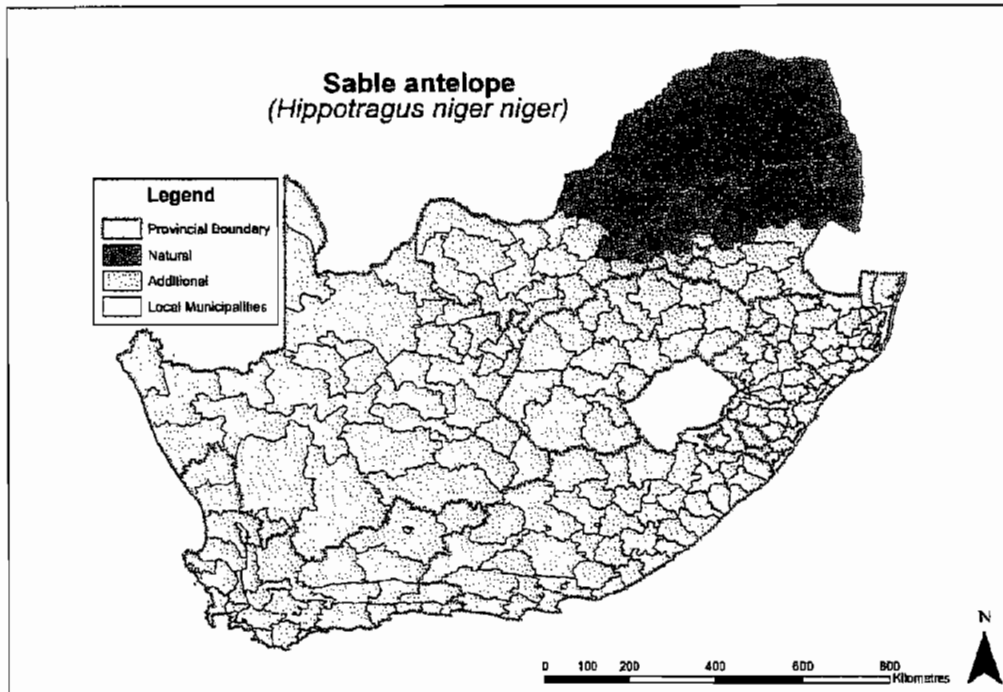
1p *Hippopotamus amphibius* (Hippopotamus)



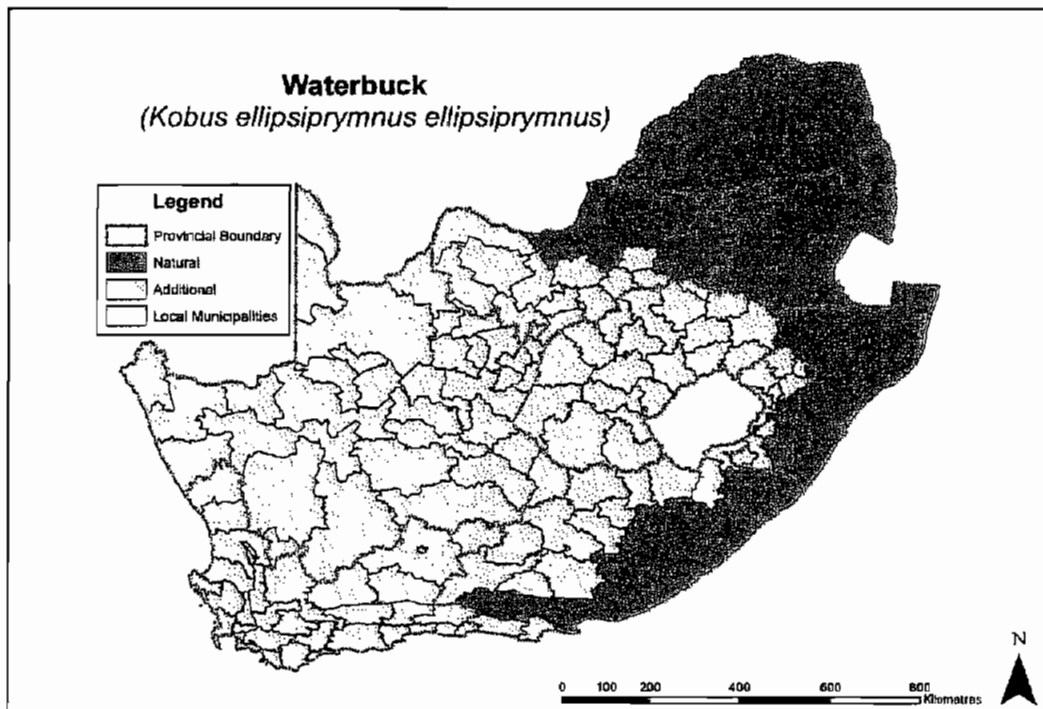
1q *Hippotragus equinus* (Roan antelope)



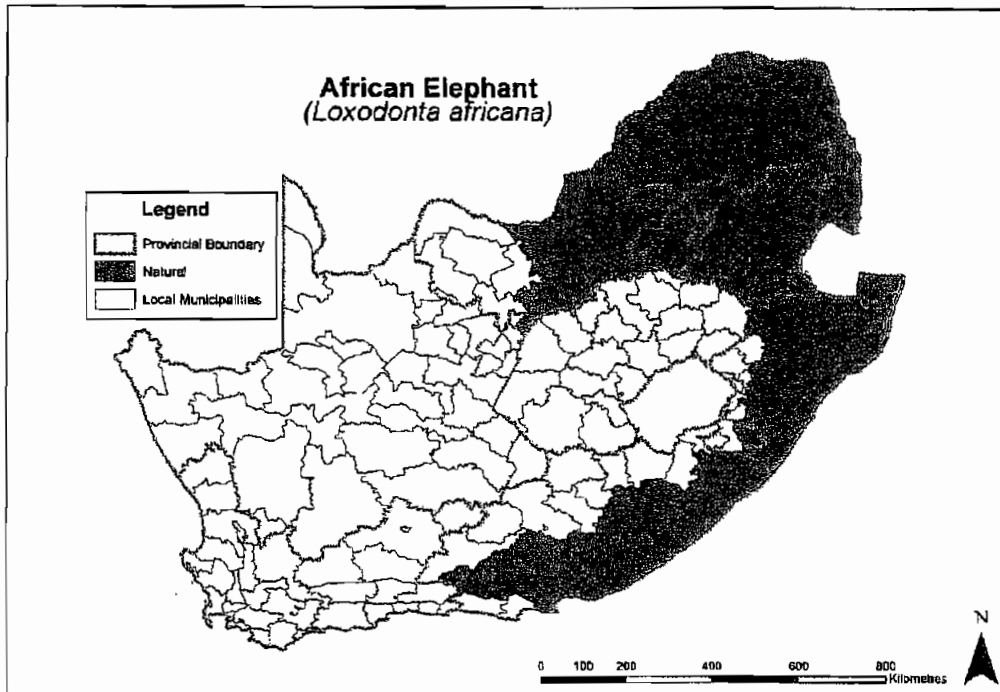
1r *Hippotragus niger niger* (Sable antelope)



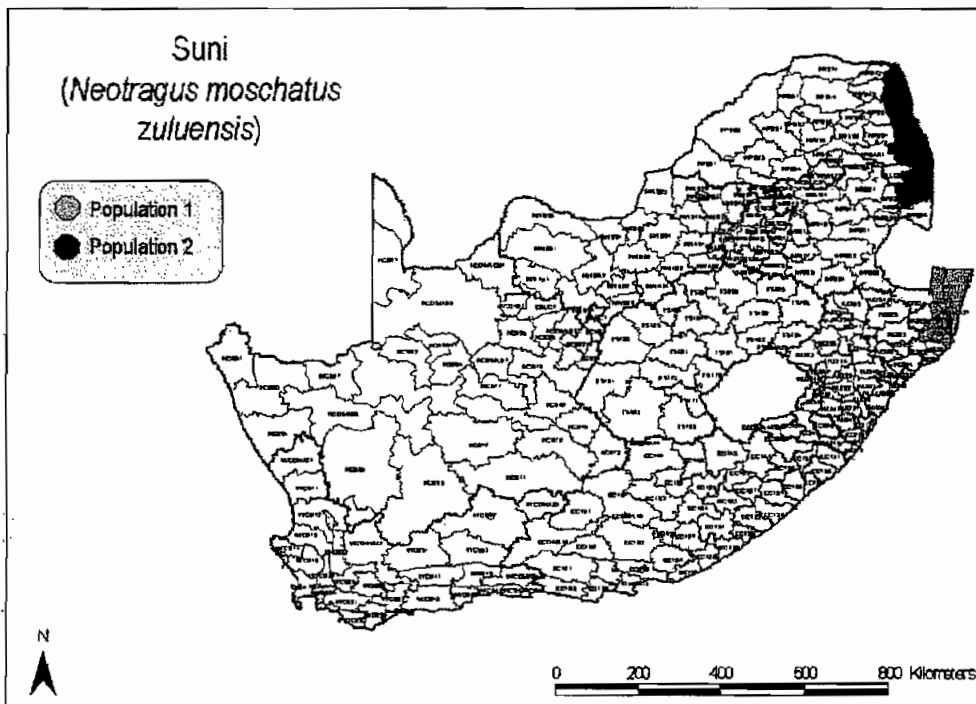
1s *Kobus ellipsiprymnus ellipsiprymnus* (Waterbuck)



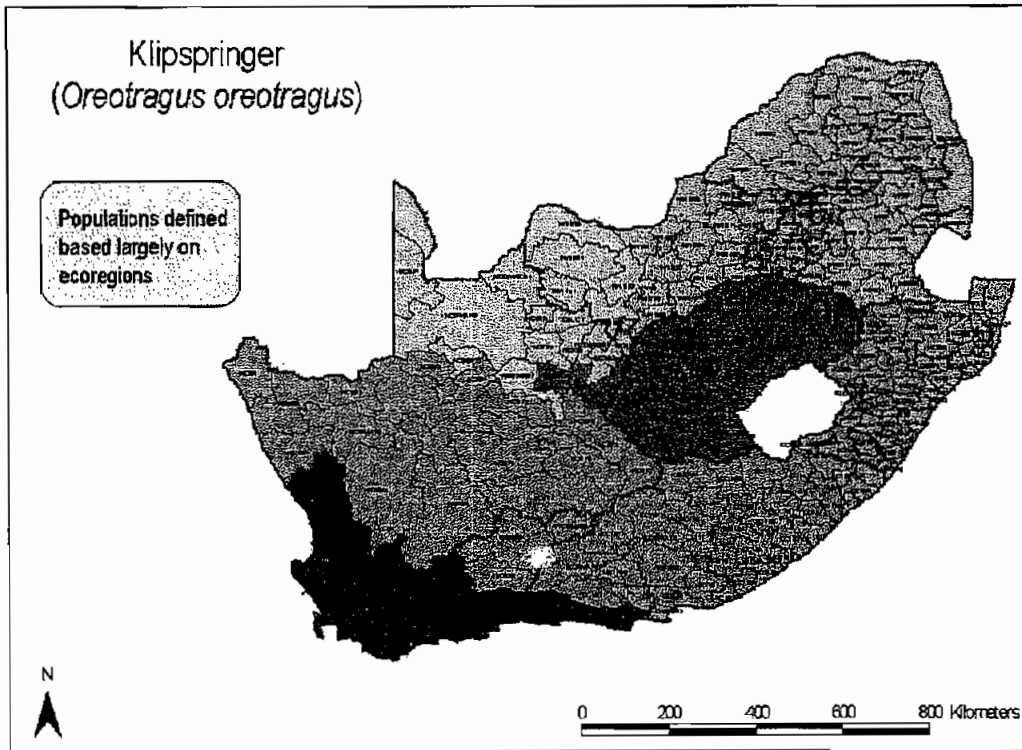
1t *Loxodonta africana* (African elephant)



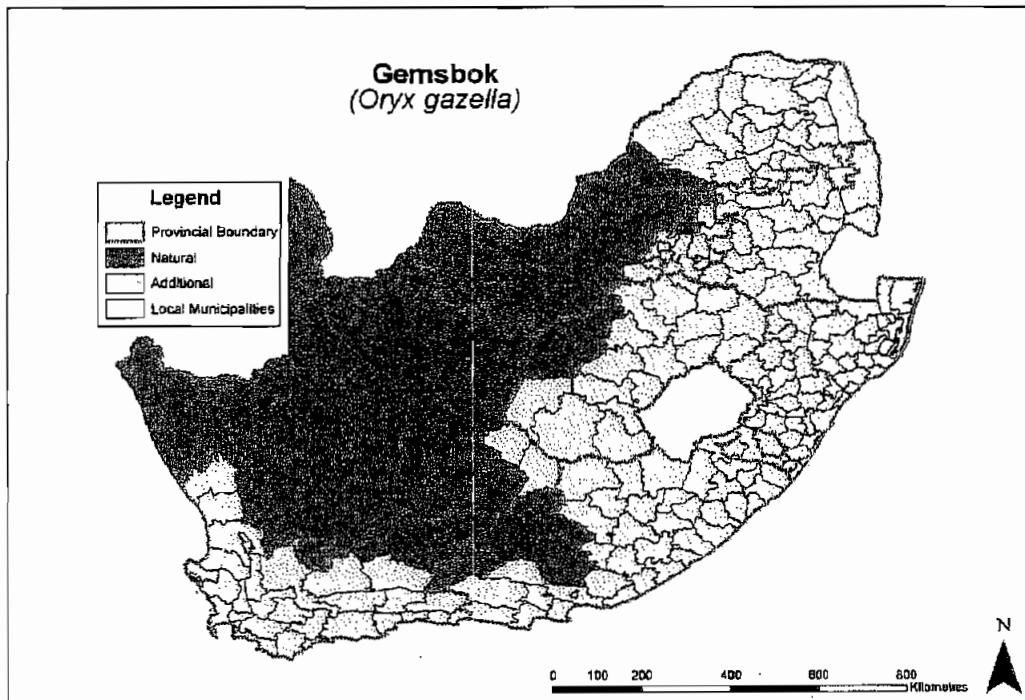
1u *Neotragus moschatus zuluensis* (Suni)



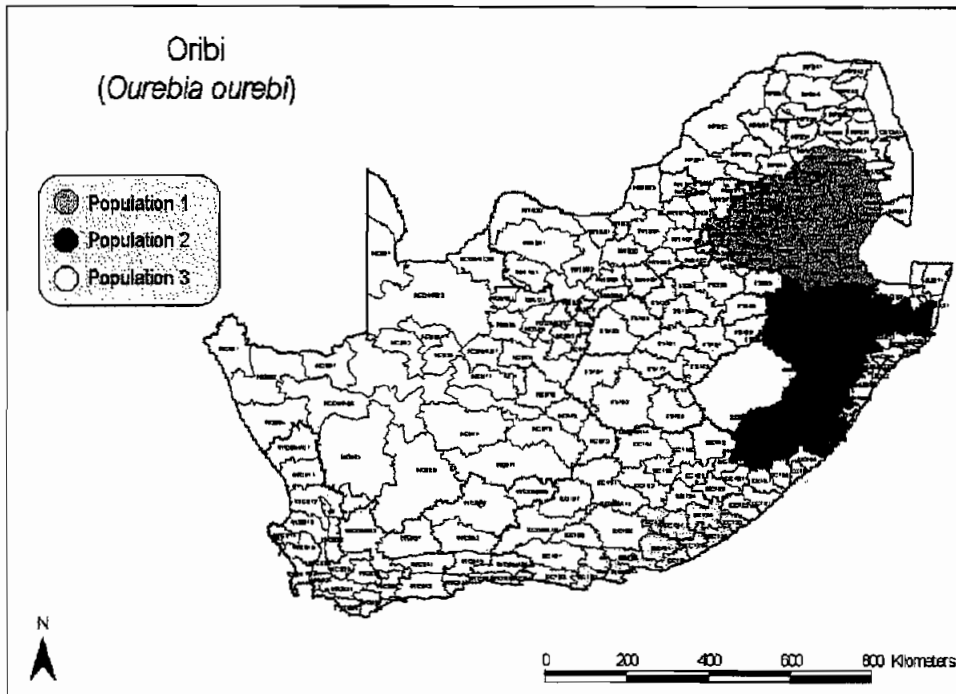
1v *Oreotragus oreotragus* (Klipspringer)



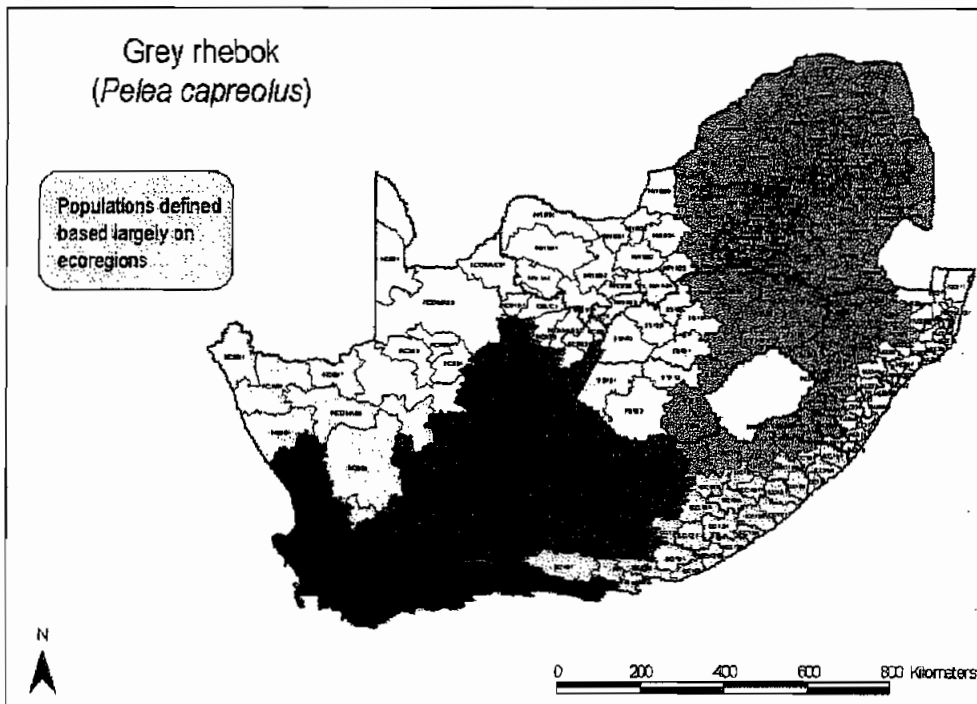
1w *Oryx gazelle* (Gemsbok)



1x *Ourebia ourebi* (Oribi)

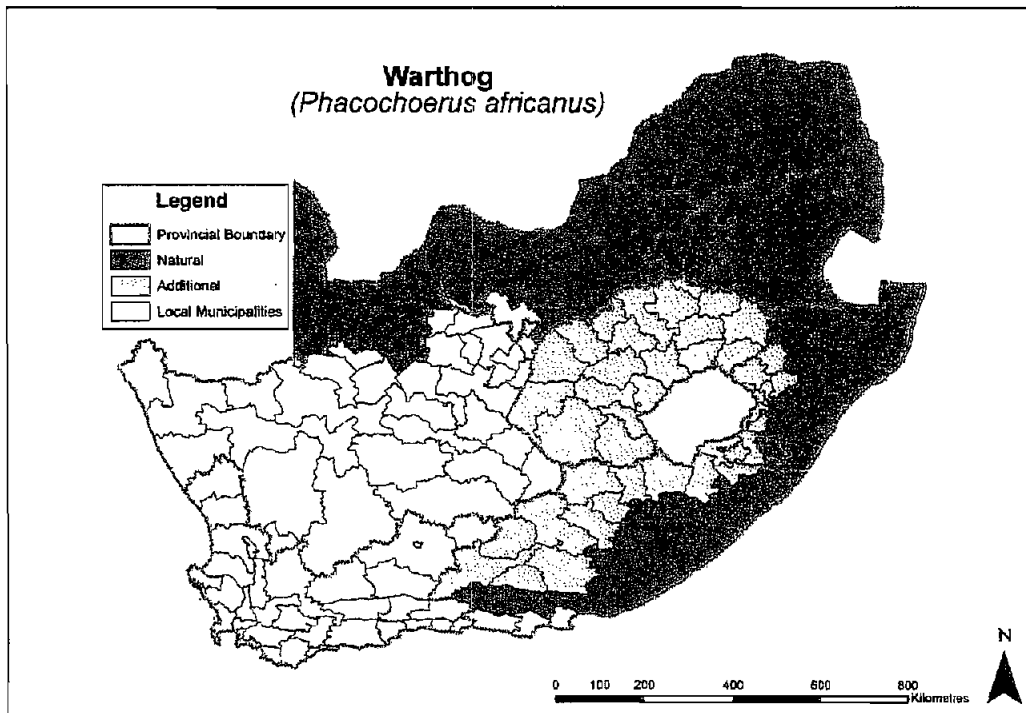


1y *Pelea capreolus* (Grey rhebok)



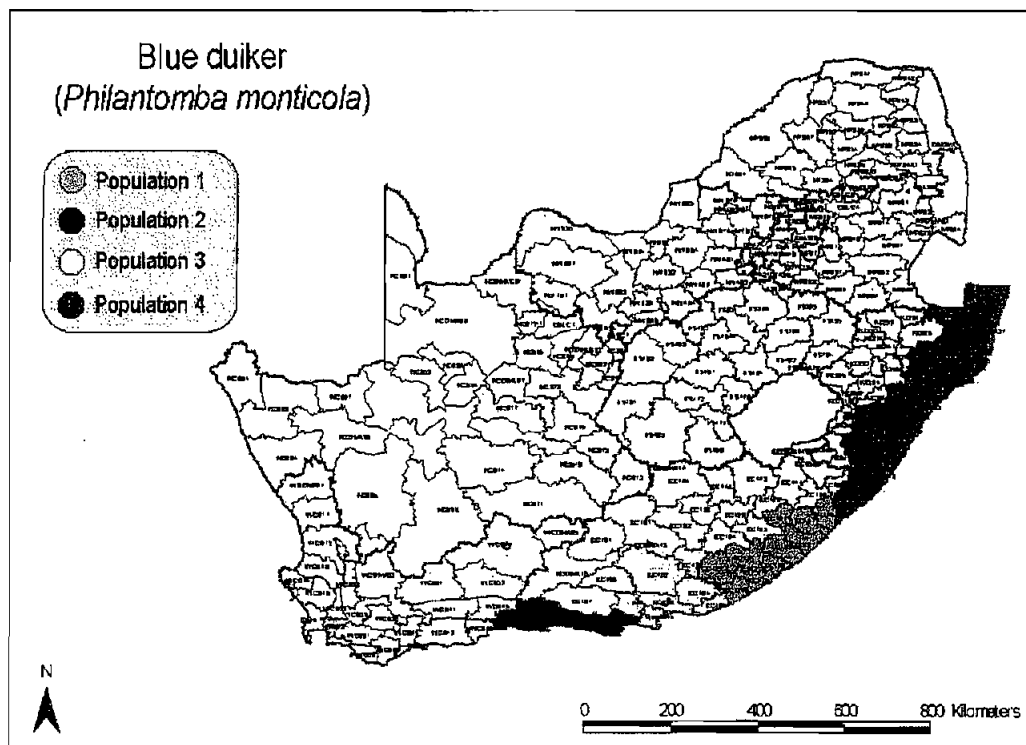
1z *Phacochoerus africanus*

Warthog



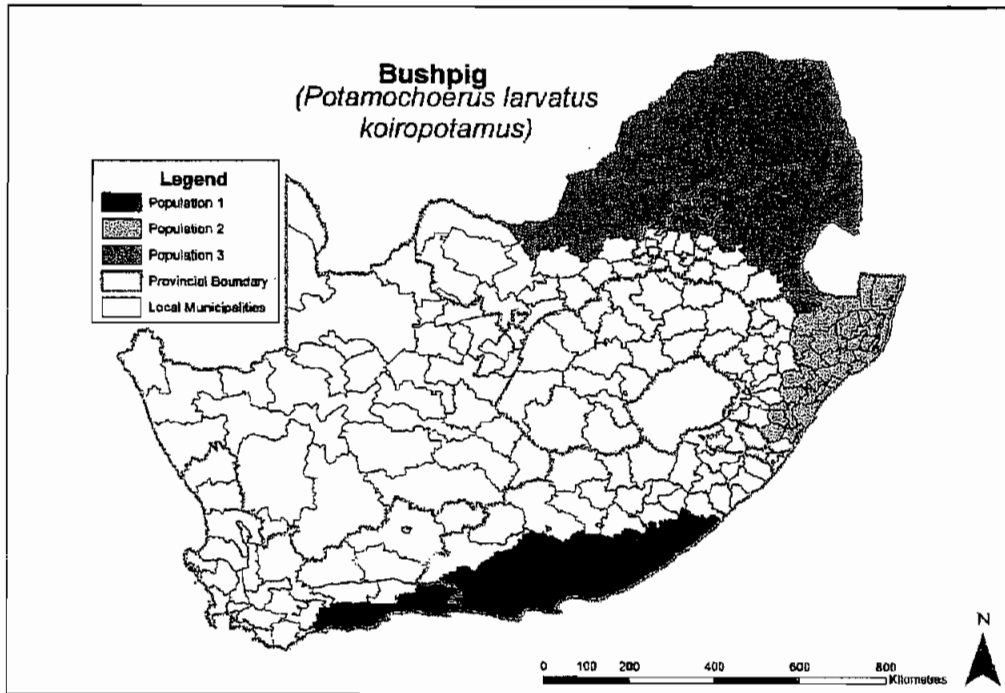
1aa *Philantomba monticola*

Blue duiker



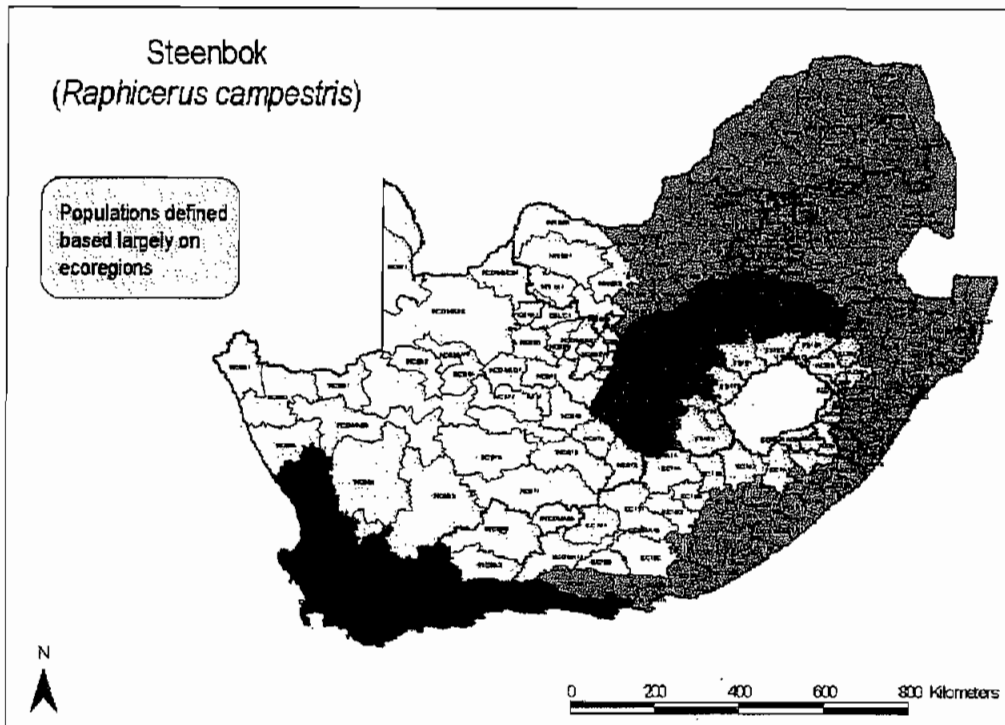
1bb *Potamochoerus porcus koiropotamus*

Bushpig



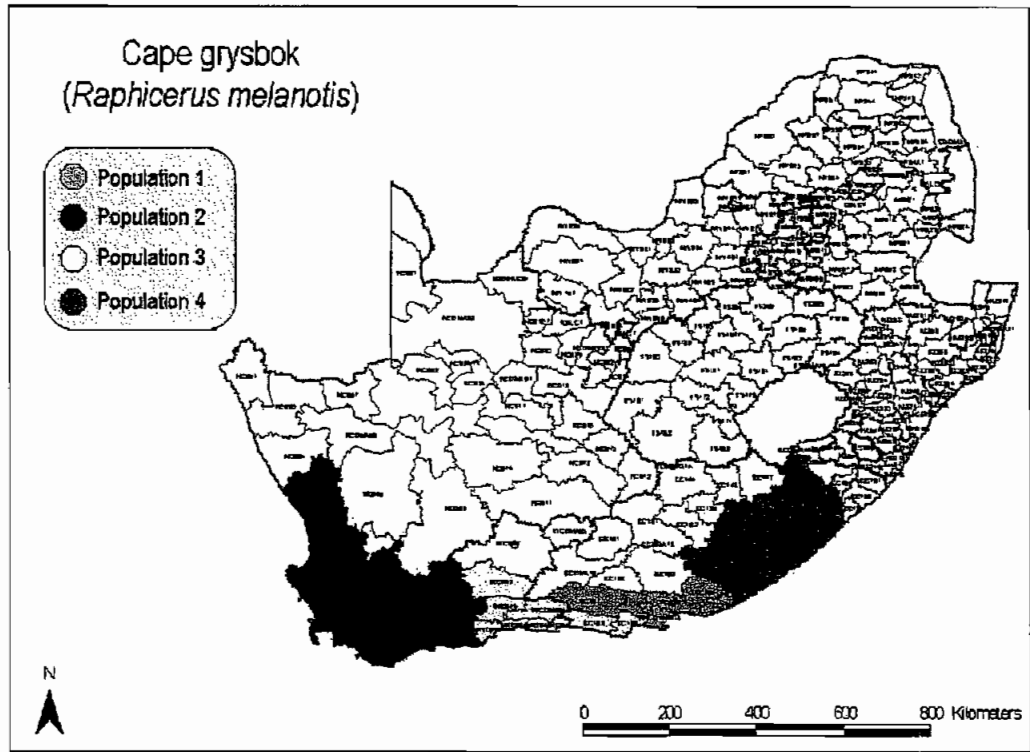
1cc *Raphicerus campestris*

Steenbok



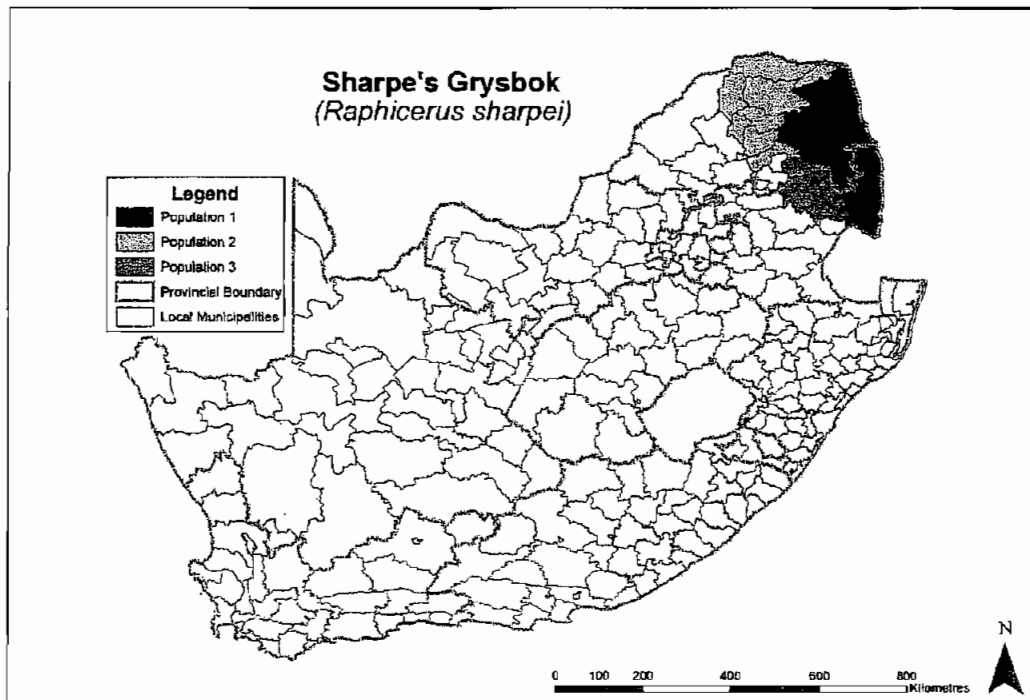
1dd *Raphicerus melanotis*

Cape grysbok



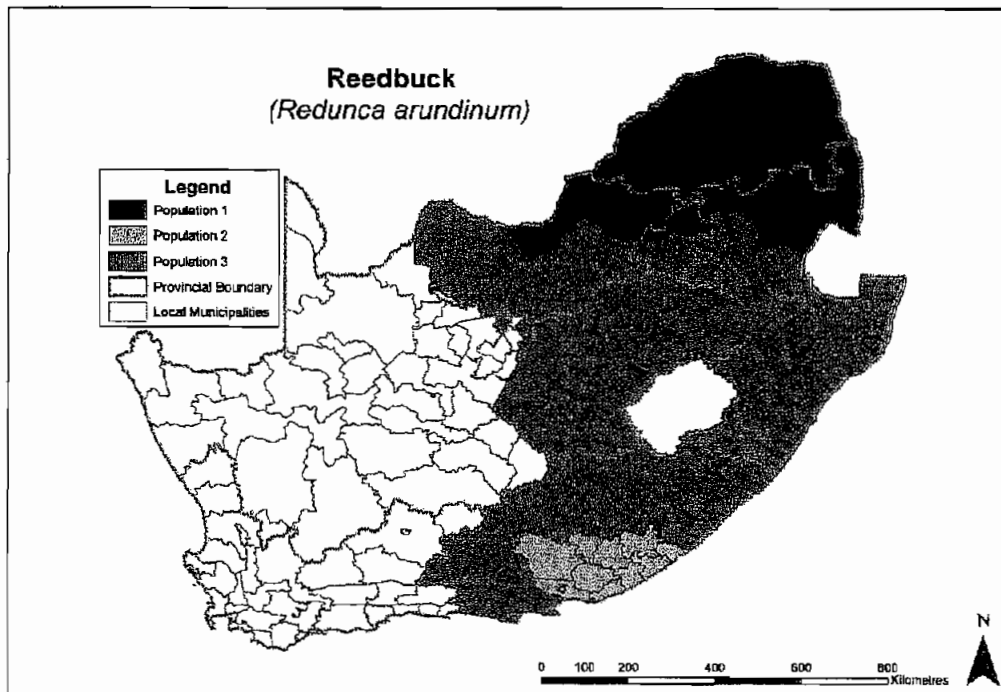
1ee *Raphicerus sharpei*

Sharp's grysbok



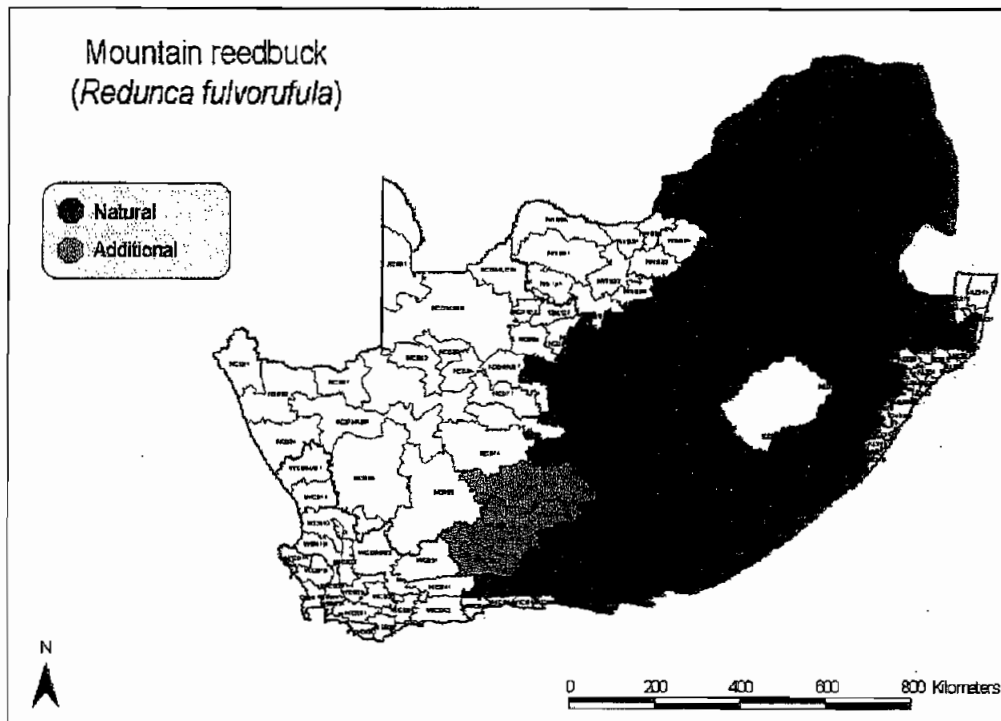
1ff *Redunca arundinum*

Reedbuck

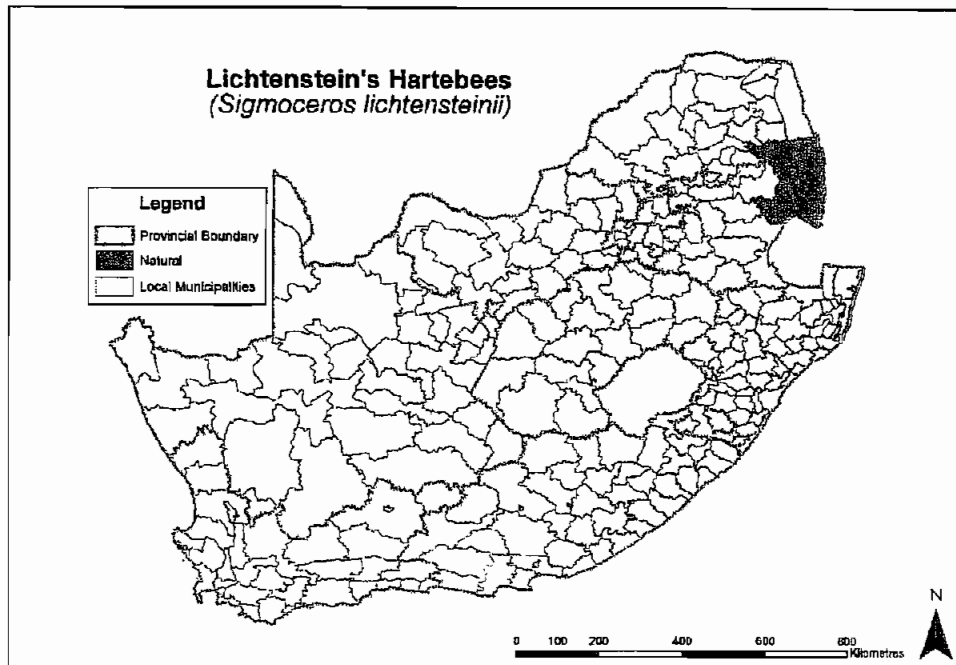


1gg *Redunca fulvorufula*

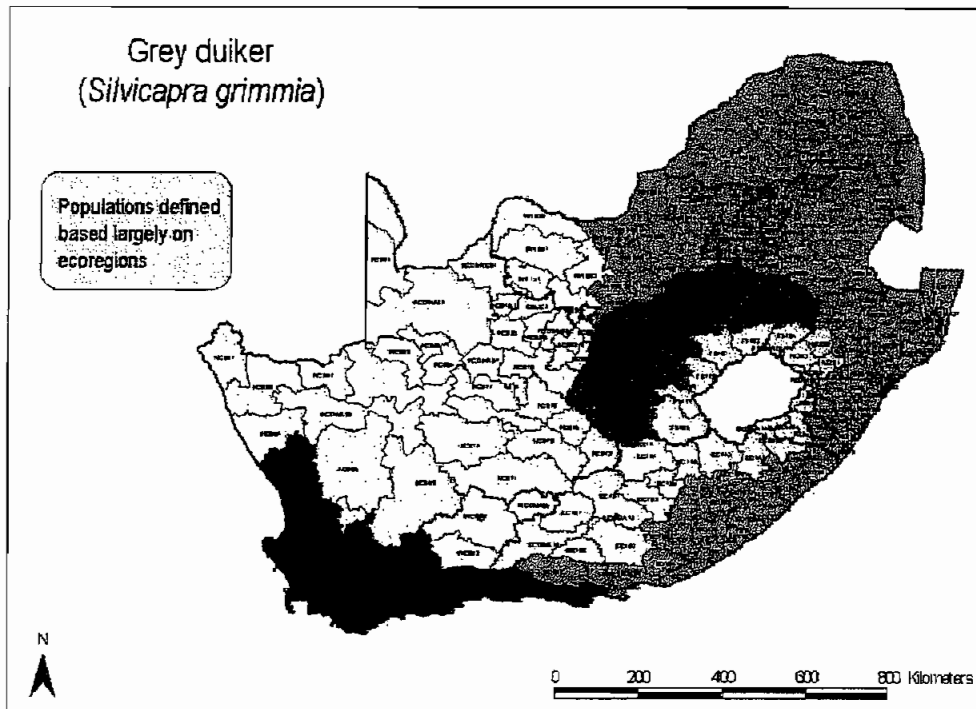
Mountain reedbuck



1hh *Sigmoceros lichtensteinii* Lichtenstein's hartebees

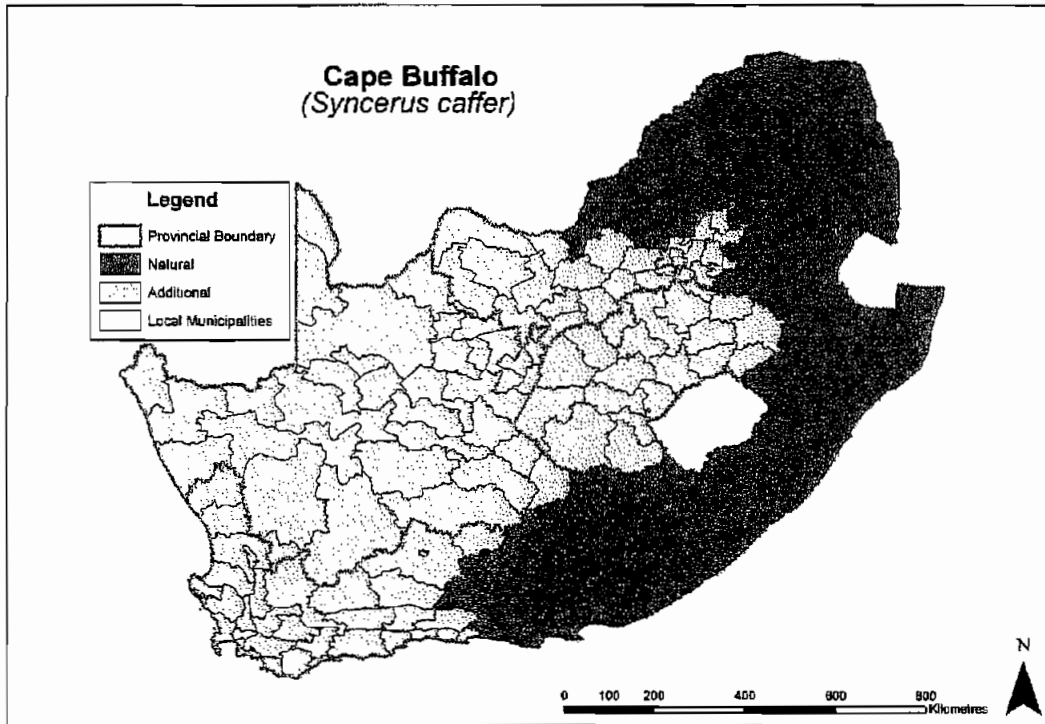


1ii *Silvicapra grimmia* Grey duiker



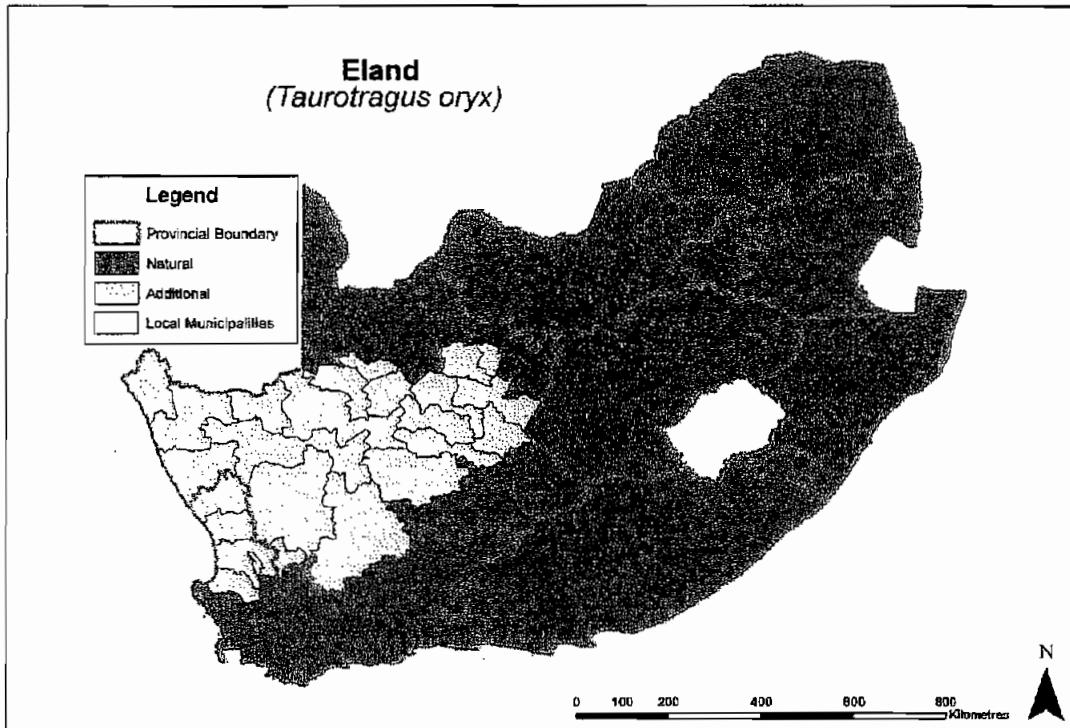
1jj *Syncerus caffer*

Cape buffalo



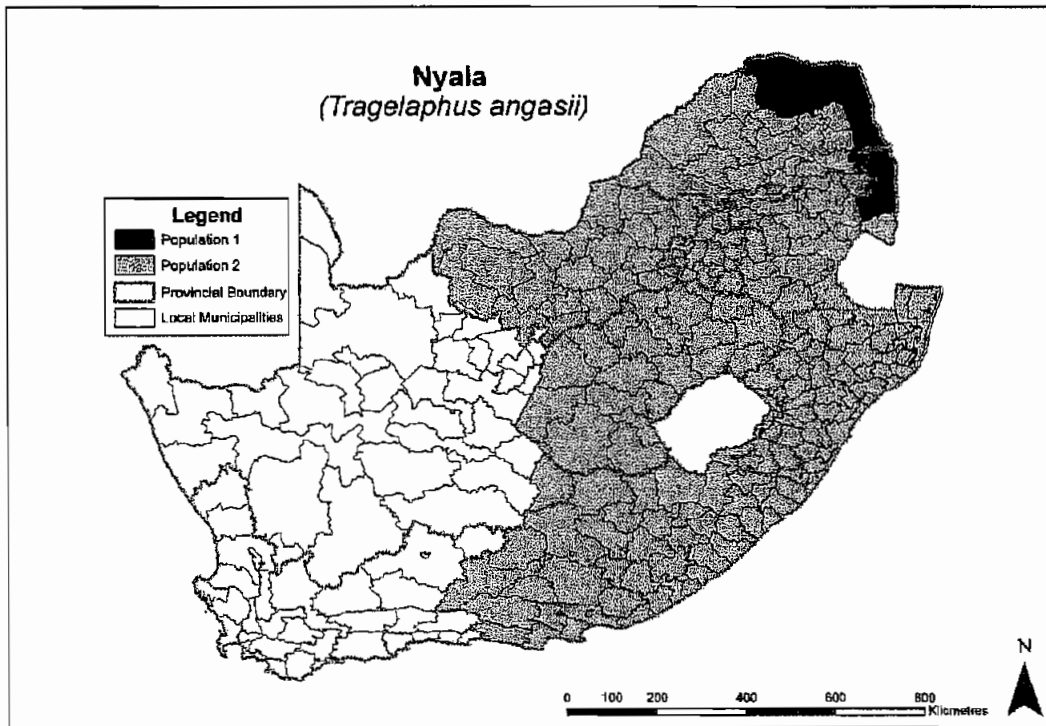
1kk *Taurotragus oryx*

Eland



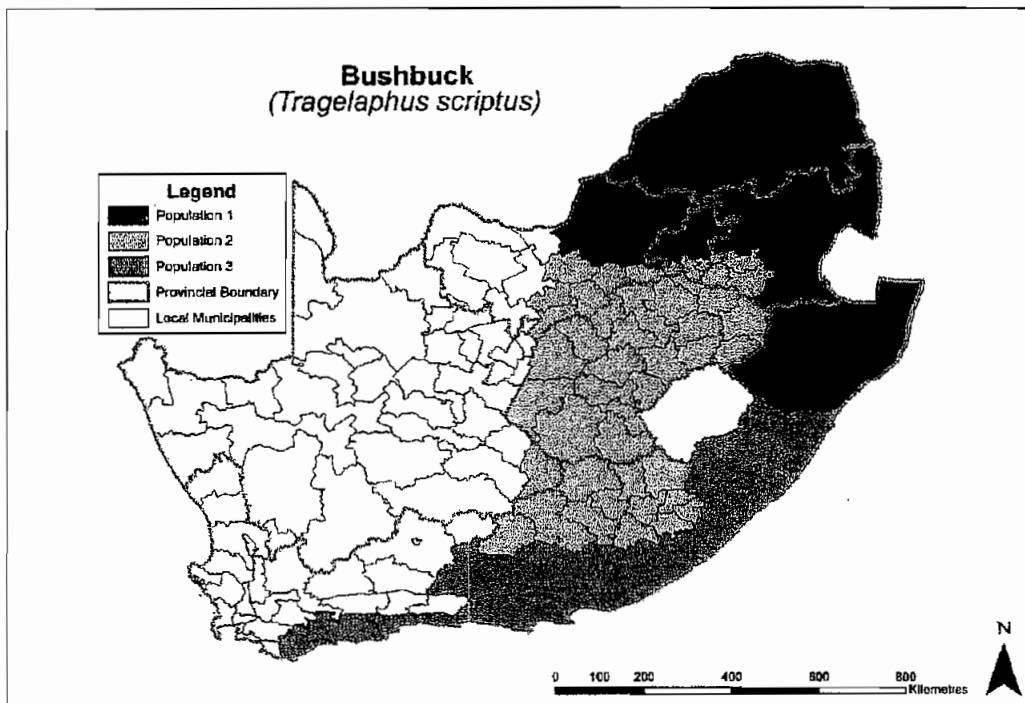
111 *Tragelaphus angasii*

Nyala



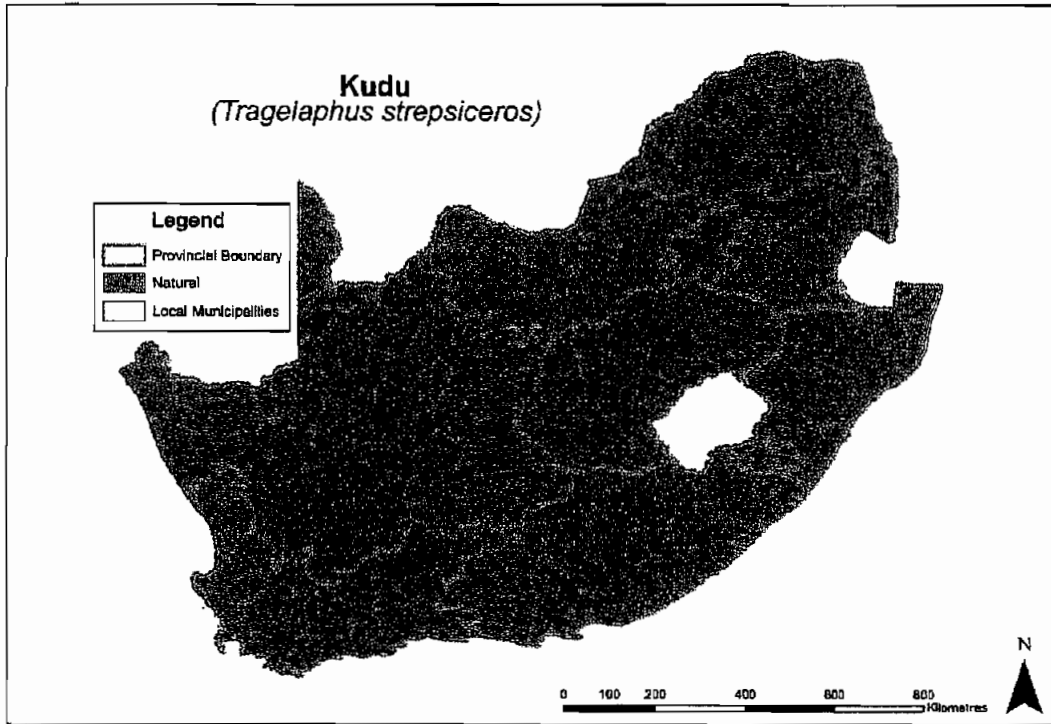
1mm *Tragelaphus scriptus*

Bushbuck



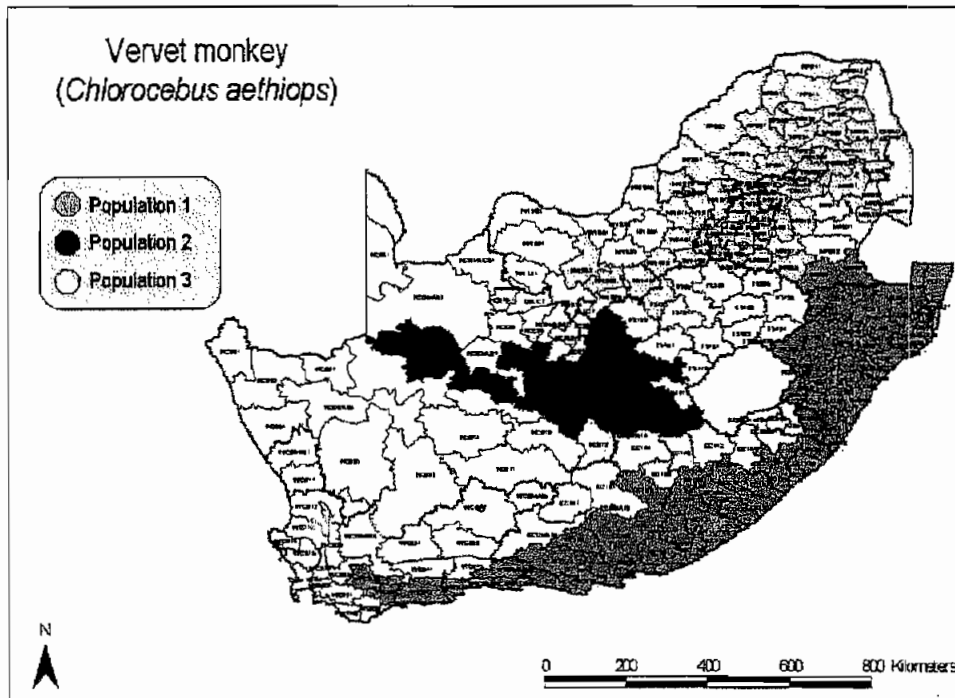
1nn*Tragelaphus strepsiceros*

Kudu



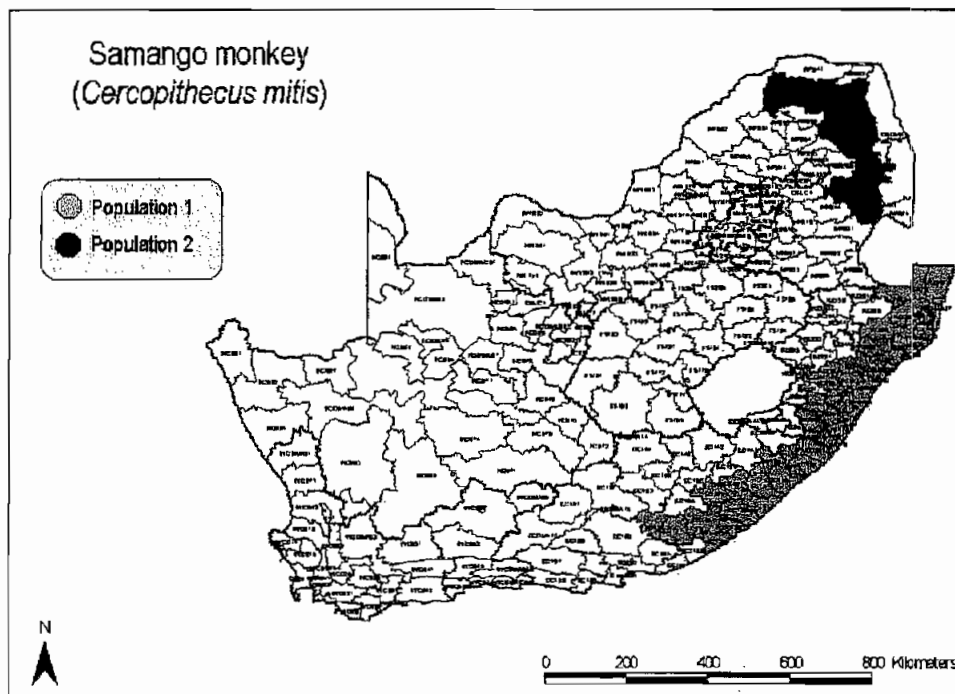
PRIMATES

100 *Cercopithecus aethiops pygerythrus* Vervet monkey



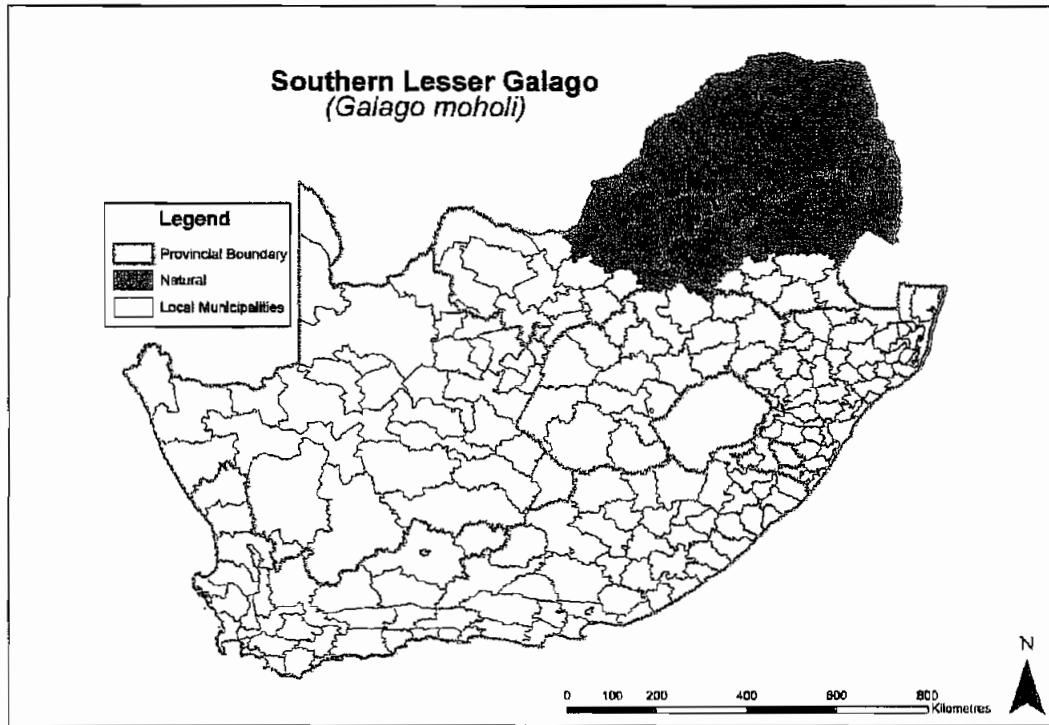
1pp *Cercopithecus mitis*

Samango monkey



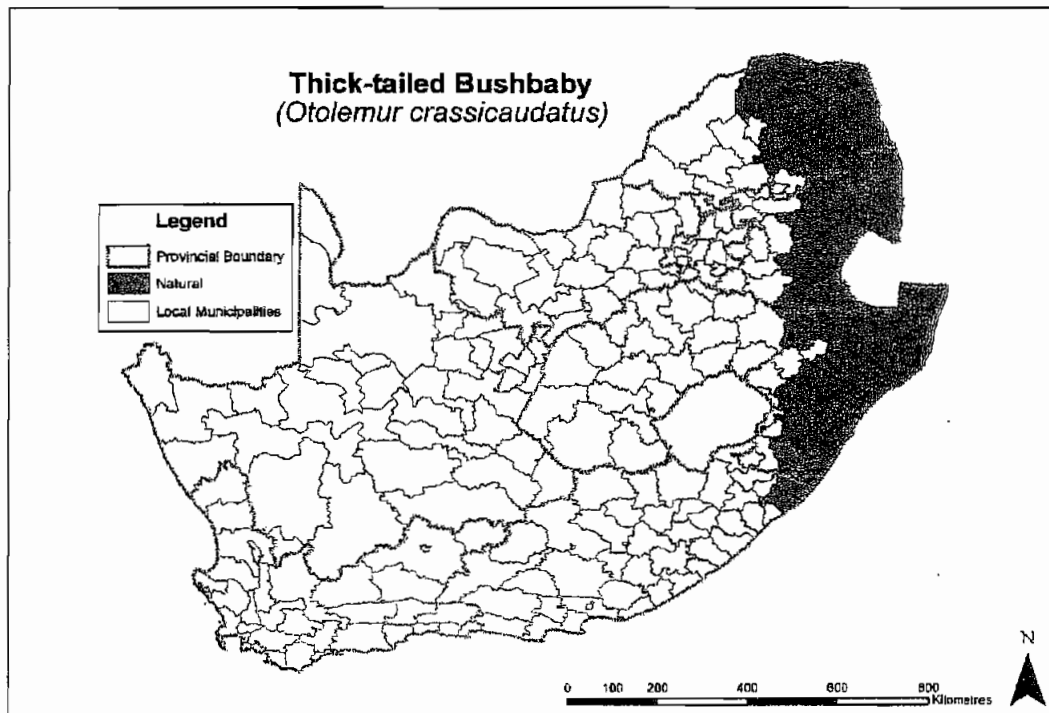
1qq *Galago moholi*

Southern lesser galago



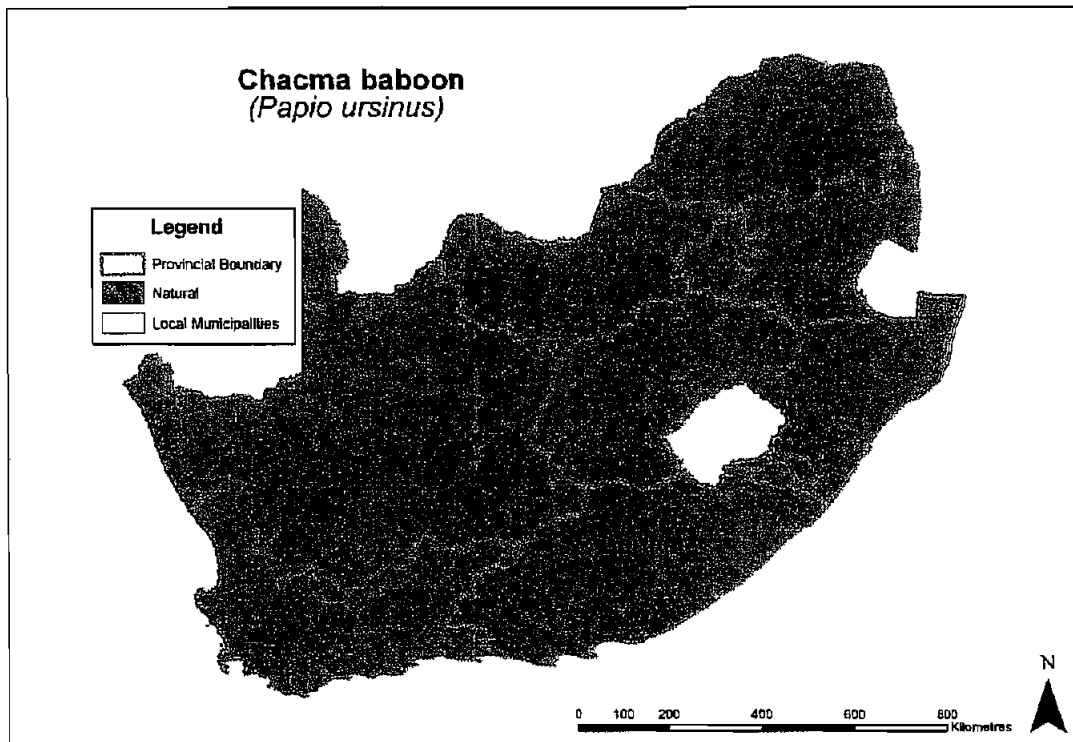
1rr *Otolemur crassicaudatus*

Thick-tailed bushbaby



1ss *Papio ursinus*

Chacma baboon



NOTICE 1147 OF 2007**DEPARTMENT OF ENVIRONMENTAL AFFAIRS AND TOURISM****NATIONAL ENVIRONMENTAL MANAGEMENT: BIODIVERSITY ACT, 2004
(ACT 10 OF 2004)
DRAFT LISTS OF EXEMPTED ALIEN SPECIES, PROHIBITED ALIEN
SPECIES AND INVASIVE SPECIES FOR WHICH A PERMIT IS REQUIRED
UNDER CERTAIN CIRCUMSTANCES**

I, Marthinus Christoffel Johannes van Schalkwyk, Minister of Environmental Affairs and Tourism, hereby give notice of my intention to publish the following lists relating to alien species and invasive species in terms of the National Environmental Management: Biodiversity Act, 2004, as set out in the schedule hereto:

- (1) In terms of section 66(1) of the Act, list in Appendix 1 the alien species or categories of alien species which are exempted from the requirement of a permit to undertake a restricted activity involving a specimen of that species;
- (2) In terms of section 67(1) of the Act, list in Appendix 2 the prohibited alien species in respect of which no permit to undertake a restricted activity involving a specimen of that species may be issued and in respect of which no person may carry out a restricted activity;
- (3) In terms of section 70(1)(a) of the Act, list in Appendix 3 the invasive species to which Chapter 5 of the Act applies nationally and for which a permit is required to undertake a restricted activity;

To ensure that all the relevant stakeholders are consulted and to streamline the consultation process, interested and affected stakeholders are invited to submit **written** comments to the department, on or before **15 October 2007**. Comments received after this date may not be considered.

Please submit all written comments to:

The Director-General
Department of Environmental Affairs and Tourism
Private Bag X447
PRETORIA
0001

For Attention: Ms S Meintjes

By fax to 012-320-7026; and by e-mail to Smeintjes@deat.gov.za. Any enquiries should be directed to Ms S Meintjes at 012-310-3545.



MARTHINUS VAN SCHALKWYK, MP
MINISTER OF ENVIRONMENTAL AFFAIRS AND TOURISM

DATE: 05 SEP 2007

SCHEDULE

Definitions

In this Notice, unless the context indicates otherwise, a word or expression to which a meaning has been assigned in the Act or the Regulations, has the same meaning, and –

"Act" means the National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004);

"biological pest control" means the importation, screening, manipulation or use of organisms for the purpose of preying on, parasitizing on, damaging, killing or controlling targeted invasive species;

"dead" means a specimen that does not contain cells from which it is possible to propagate or breed new specimens and preserved shall have a similar meaning;

"kept in captivity" means in relation to a specimen of an alien species, means that the species is kept in an enclosure designed to hold specimens of alien species in a way that –

- (a) prevents them from escaping;
- (b) facilitates intensive human intervention or manipulation in the form of the provision of –
 - (i) food or water;
 - (ii) artificial housing; or
 - (iii) health care;

"regulations" means the Regulations published in terms of section 97(1)(b), (c), (e), (f), (g) and (h) of the Act;

“microbes” means microscopic living organisms, including bacteria, protozoa, viruses, and fungi.

APPENDIX 1

Alien species or categories of alien species exempted from the provisions of section 65(1) of the National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004):

1. The following indigenous taxonomic groups are exempted from the provisions of section 65(1) of NEMBA:
 - 1.1 Plants (including vascular plants, bryophyta and non-vascular plants)
 - 1.2 Bacteria and cyanobacteria
 - 1.3 Protozoans, algae and flagella
 - 1.4 Fungi
 - 1.5 Invertebrata
 - 1.6 Aves
 - 1.7 Reptilia
 - 1.8 Amphibia
 - 1.9 Pisces
 - 1.10 Within the Class: Mammalia the following Orders:
 - 1.10.1 Hyracoidea
 - 1.10.2 Carnivora (including seals)
 - 1.10.3 Chiroptera
 - 1.10.4 Insectivora
 - 1.10.5 Lagomorpha
 - 1.10.6 Rodentia
 - 1.10.7 Macroscelidae / Pholidota / Tubulidentata
 - 1.10.8 Cetacea
2. Dead specimens of any alien species.

3. Agricultural food crops, fodder, animals used in the agricultural sector, domesticated animals included in a register¹ maintained by the Institute.
4. Alien species listed in a register² established and maintained by the Institute of Alien Species legally imported into the Republic prior to the date of publication of the Regulations. Alien bird, reptile, amphibian, fish and mammal species included in the register³ are only exempted from the provisions of the regulations if the specimens are kept in captivity or sold for personal purposes.
5. Sterile or infertile specimens of alien species.
6. Alien plant species occurring, established and maintained in areas demarcated in terms of the Conservation of Agricultural Resources Act, 1983 (Act No. 43 of 1983) and under the management of the Department of Water Affairs and Forestry.
6. Microbial species that are -
 - (a) not being or to be used for biological pest control; or
 - (b) not intentionally imported.
7. Species used for biological pest control that have been approved for general release in terms of the Environment Conservation Act, 1989 (Act 73 of 1989) or the National Environmental Management Act, 1998 (Act 101 of 1998).
8. Species listed as invasive in terms of section 70(1) of the Act and regulated as listed invasive species.

APPENDIX 2

Alien species prohibited in terms of section 67(1) and in respect of which a permit in terms of section 65 of the National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004) may not be issued:

None

¹ The register is available on the Department of Environmental Affairs and Tourism website at www.deat.gov.za

² The register is available on the Department of Environmental Affairs and Tourism website at www.deat.gov.za

³ The register is available on the Department of Environmental Affairs and Tourism website at www.deat.gov.za

APPENDIX 3

Invasive species for which a permit in accordance with section 71(1) of the National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004) must be obtained and in respect of which the provisions of Chapter 5 of the National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004) apply nationally:

3.1 PROHIBITED INVASIVE SPECIES**3.1.1 Mammals**

No	Species	Common Name
1	<i>Bos frontalis</i>	Gaur
2	<i>Castor spp.</i>	Beaver (all species)
3	<i>Erinaceus europaeus</i>	European hedgehog
4	<i>Herpestes javanicus</i>	Small Indian mongoose
5	<i>Kobus kob</i>	Kob
6	<i>Lagorchestes spp</i>	Hare wallabies
7	<i>Lagostrophus spp</i>	Wallabies
8	<i>Macaca fascicularis</i>	Crab-eating macaque
9	<i>Macropus spp</i>	Kangaroos
10	<i>Mustela erminea</i>	Short-tailed weasel / Stoat
11	<i>Oryx beisa</i>	Beisa oryx
12	<i>Petrogale spp</i>	Rock wallabies
13	<i>Redunca redunca</i>	Bohor reedbuck
14	<i>Suncus murinus</i>	Asian/Indian musk shrew
15	<i>Trichosurus vulpecula</i>	Brushtail possum
16	<i>Vulpes vulpes</i>	Red fox

3.1.2 Birds

No	Species	Common Name
1	<i>Acridotheres cristatellus</i>	Crested myna
2	<i>Acridotheres fuscus</i>	Jungle myna
3	<i>Alectoris rufa</i>	Red-legged partridge
4	<i>Callipepla californica</i>	California quail
5	<i>Callipepla gambelii</i>	Gambel's quail
6	<i>Callipepla squamata</i>	Scaled quail
7	<i>Carduelis carduelis</i>	European goldfinch
8	<i>Carduelis chloris</i>	European greenfinch
9	<i>Carduelis flammea</i>	Common redpoll
10	<i>Carpodacus mexicanus</i>	House finch
11	<i>Colinus cristatus</i>	Crested quail
12	<i>Colinus virginianus</i>	Northern bobwhite
13	<i>Columba palumbus</i>	Common wood-pigeon
14	<i>Corvus brachyrhynchos</i>	American crow
15	<i>Corvus frugilegus</i>	Rook
16	<i>Corvus monedula</i>	Eurasian jackdaw
17	<i>Eleutherodactylus coqui</i>	Puerto Rican coqui
18	<i>Emberiza citrinella</i>	Yellowhammer
19	<i>Foudia madagascariensis</i>	Madagascar red fody
20	<i>Francolinus pondicerianus</i>	Grey francolin
21	<i>Gracula religiosa</i>	Hill myna
22	<i>Icterus pectoralis</i>	Spot-breasted oriole
23	<i>Lonchura malacca</i>	Indian black-headed manikin
24	<i>Lonchura punctulata</i>	Scaly-breasted munia
25	<i>Molothrus ater</i>	Brown-headed cowbird
26	<i>Molothrus bonariensis</i>	Shiny cowbird
27	<i>Oreortyx pictus</i>	Mountain quail

28	<i>Oxyura jamaicensis</i>	Northern ruddy duck
29	<i>Oxyura leucocephala</i>	White-headed duck
30	<i>Passer hispaniolensis</i>	Spanish sparrow
31	<i>Passer montanus</i>	Eurasian tree sparrow
32	<i>Perdix perdix</i>	Grey partridge
33	<i>Phasianus colchicus</i>	Ring-necked pheasant
34	<i>Pycnonotus cafer</i>	Red-vented bulbul
35	<i>Pycnonotus jocosus</i>	Red-whiskered bulbul
36	<i>Sicalis flaveola</i>	Saffron finch
37	<i>Streptopelia picturata</i>	Madagascar turtle-dove
38	<i>Struthio camelus molybdophanus</i>	North African ostrich
39	<i>Turdus merula</i>	Blackbird
40	<i>Turdus philomelos</i>	Song thrush
41	<i>Zenaida asiatica</i>	White-winged dove

3.1.3 Reptiles

No	Species	Common Name
1	<i>Agama agama</i>	Common agama
2	<i>Anolis distichus</i>	Bark anole
3	<i>Anolis sagrei</i>	Brown anole
4	<i>Basiliscus vittatus</i>	Basilisk
5	<i>Boiga irregularis</i>	Brown tree snake
6	<i>Chelydra macroclemys</i>	Alligator snapper turtle
7	<i>Geochelone sulcata</i>	Spur thighed tortoise
8	<i>Hemidactylus frenatus</i>	House gecko
9	<i>Hemidactylus garnotti</i>	Indo-Pacific gecko
10	<i>Hemidactylus turcicus</i>	Mediterranean gecko
11	<i>Leiocephalus carinatus</i>	Northern curlytail lizard
12	<i>Macrochelys temminckii</i>	Snapper turtle
13	<i>Tarentola mauritanica</i>	Moorish wall gecko

3.1.4 Amphibians

No	Species	Common Name
1	<i>Ambystoma tigrinum</i>	Tiger salamander
2	<i>Bufo bufo</i>	European toad
3	<i>Bufo marinus</i>	Cane toad / Marine toad
4	<i>Eleutherodactylus planirostris</i>	Greenhouse frog
5	<i>Litoria caerulea</i>	Great green treefrog
6	<i>Notophthalmus viridescens viridescens</i>	Red-spotted newt
7	<i>Osteopilus septentrionalis</i>	Cuban treefrog
8	<i>Rana catesbeiana</i>	American bull frog

3.1.5 Fish

No	Species	Common name
1	<i>Clarias batrachus</i>	walking catfish

3.1.6 Other Marine Species

No	Species	Common name
1	<i>Caulerpa taxifolia</i>	Caulerpa
2	<i>Undaria pinnatifida</i>	Asian kelp
3	<i>Eiochir sinensis</i>	Asian mitten crab
4	<i>Asteria anamurensis</i>	Pacific seastar

3.1.7 Freshwater invertebrates

No	Species	Common Name
1	<i>Cherax destructor</i>	Yabby

3.1.8 Terrestrial invertebrates

No	Species	Common Name
1	<i>Achatina fulica</i>	Giant African snail
2	<i>Aphelenchoides fragariae</i>	'strawberry crimp disease' nematode
3	<i>Belonolaimus longicaudatus</i>	Nematode
4	<i>Bursaphelenchus xylophilus</i>	Pine wilt or Pine wood nematode
5	<i>Euglandina rosea</i>	Rosy wolf snail
6	<i>Globodera pallida</i>	Pale cyst nematode, Potato cyst nematode
7	<i>Heterodera glycines</i>	Soybean cyst nematode
8	<i>Heterodera goettingiana</i>	Pea cyst nematode
9	<i>Longidorus attenuatus</i>	Tomato docking disorder nematode
10	<i>Longidorus elongatus</i>	Sugar beet docking disorder nematode
11	<i>Paratrichodorus nanus</i>	Nematode
12	<i>Paratrichodorus pachydermus</i>	Nematode
13	<i>Paratrichodorus tunisiensis</i>	Nematode
14	<i>Paratylenchus bukowinensis</i>	Nematode
15	<i>Rhadinaphelenchus cocophilus</i>	Red ring disease nematode
16	<i>Scutellonema bradys</i>	Yam nematode
17	<i>Trichodorus primitivus</i>	Nematode
18	<i>Trichodorus similis</i>	Nematode
19	<i>Trichodorus viruliferus</i>	Nematode

3.1.9 Vascular Plants

No	Species	Common Name
1	<i>Acaena pallida</i>	Pale biddy-biddy
2	<i>Achnatherum caudatum</i>	Spear grass
3	<i>Achnatherum brachychaetum</i> (= <i>Nassella</i> , <i>Stipa brachychaeta</i>)	Puna grass
4	<i>Aegilops</i> spp.	Goat grass
5	<i>Aegilops cylindrica</i> (= <i>Cylindropyrum cylindricum</i> , <i>Triticum cylindricum</i>)	Jointed goat grass
6	<i>Aegilops geniculata</i> (= <i>A. ovata</i> , <i>Triticum ovatum</i>)	Ovate goat grass
7	<i>Aegilops triuncialis</i> (= <i>A. squarrosa</i> , <i>Triticum triunciale</i>)	Barb goat grass
8	<i>Aeginetia</i> spp.	Aeginetia
9	<i>Aeschynomene rudis</i>	Rough joint-vetch
10	<i>Allium paniculatum</i>	Panicked onion
11	<i>Allium vineale</i> (= <i>A. kochii</i>)	Wild garlic
12	<i>Alternanthera philoxeroides</i>	Alligator weed
13	<i>Ambrosia trifida</i>	Giant ragweed
14	<i>Andropogon bicornis</i>	West Indian foxtail grass
15	<i>Andropogon virginicus</i>	Broom-sedge
16	<i>Ammona glabra</i>	Pond apple
17	<i>Artemisia verlotiorum</i>	Mugwort
18	<i>Arundinaria</i> spp.	Arundinaria reeds/bamboos
19	<i>Baccharis halimifolia</i>	Groundsel bush
20	<i>Berberis glaucocarpa</i>	Barberry
21	<i>Bifora testiculata</i> (<i>Coriandrum testiculatum</i>)	Bifora
22	<i>Cabomba caroliniana</i>	Cabomba, Carolina fanwort
23	<i>Cabomba</i> spp.	Cabomba

24	<i>Callistachys lanceolata</i> (= <i>Oxylobium lanceolatum</i>)	Oxylobium
25	<i>Calluna vulgaris</i>	Heather
26	<i>Calotis lappulacea</i>	Bur-daisy
27	<i>Lepidium appelianum</i> (= <i>Cardaria pubescens</i>)	Globe-pod hoary cress
28	<i>Carduus acanthoides</i>	Plumeless thistle
29	<i>Carduus nutans</i>	Musk thistle
30	<i>Carduus pycnocephalus</i>	Italian thistle
31	<i>Carex buchananii</i>	New Zealand sedge
32	<i>Carex comans</i> (= <i>C. albula</i>)	New Zealand sedge
33	<i>Carex flagellifera</i>	New Zealand sedge
34	<i>Carex longibrachiata</i>	Australian sedge
35	<i>Carex testacea</i>	New Zealand sedge
36	<i>Carthamus leucocaulos</i>	White-stem distaff thistle, Saffron thistle
37	<i>Carthamus oxyacanthus</i> (= <i>C. flavescens</i>)	Wild safflower
38	<i>Cassinia arcuata</i>	Chinese shrub, Drooping cassinia
39	<i>Caulerpa taxifolia</i>	Notched caulerpa, Feather caulerpa
40	<i>Celastrus orbiculatus</i> (= <i>C. articulatus</i>)	Climbing spindleberry, Oriental bittersweet
41	<i>Cenchrus echinatus</i>	Southern sandbur grass, Mossman River grass
42	<i>Cenchrus longispinus</i>	Mat sandbur, Spiny bur grass
43	<i>Centaurea diffusa</i>	Diffuse knapweed
44	<i>Centaurea iberica</i>	Iberian star thistle
45	<i>Centaurea sulphurea</i>	Sicilian star thistle
46	<i>Cereus hildmannianus</i> (= <i>C. peruvianus</i> [= <i>C. hildmannianus</i> subsp. <i>hildmannianus</i>], <i>C. uruguayanus</i> = <i>C. hildmannianus</i> subsp.	Queen-of-the-night, Peruvian apple, Hedge cactus, Spiny tree cactus

	<i>uruguayanus</i>]	
47	<i>Chorisporea tenella</i>	Purple mustard
48	<i>Chrysopogon aciculatus</i> (= <i>Andropogon acicularis</i> , <i>A. aciculatus</i> , <i>Rhaphis acicularis</i> , <i>R. aciculate</i>)	Pilipiliula
49	<i>Cirsium japonicum</i>	Japanese thistle
50	<i>Cirsium ochrocentrum</i>	Yellow-spine thistle
51	<i>Cirsium undulatum</i>	Wavy-leaf thistle
52	<i>Clematis vitalba</i>	Old man's beard
53	<i>Clidemia hirta</i> (= <i>Melastoma hirtum</i>)	Koster's curse
54	<i>Coccinia grandis</i> (= <i>C. cordifolia</i> , <i>C. indica</i>)	Ivy gourd
55	<i>Cortaderia richardii</i>	New Zealand pampas grass
56	<i>Crassula helmsii</i>	Swamp stonecrop
57	<i>Crataegus sinaica</i>	Azzarola
58	<i>Crupina vulgaris</i>	Common crupina, Bearded creeper
59	<i>Cupaniopsis anacardioides</i> (= <i>Cupania anacardioides</i>)	Carrotwood
60	<i>Cuscuta indecora</i> (= <i>C. jepsonii</i>)	Large-seeded dodder
61	<i>Cuscuta reflexa</i>	Giant dodder, Indian dodder
62	<i>Cymbopogon refractus</i> (= <i>Andropogon refractu</i>)	Barbwire grass
63	<i>Datura leichhardtii</i> (= <i>D. pruinosa</i>)	Leichhardt's thorn apple
64	<i>Datura wrightii</i> (= <i>D. meteloides</i>)	Hairy thorn apple
65	<i>Diploaxis tenuifolia</i> (= <i>Sisymbrium tenuifolium</i>)	Sand rocket
66	<i>Dipsacus fullonum</i> (= <i>D. sylvestris</i>)	Wild teasel
67	<i>Dioscorea alata</i> (= <i>D. rubella</i>)	White yam
68	<i>Drymaria arenarioides</i>	Alfombrilla, Lightningweed
69	<i>Echium italicum</i>	Italian bugloss
70	<i>Eichhornia azurea</i>	Anchored water hyacinth
71	<i>Elaeagnus reflexa</i>	Elaeagnus
72	<i>Elephantopus mollis</i> (= <i>E. tomentosus</i>)	Elephantopus, Elephant's foot

73	<i>Emex spinosa</i> (= <i>Rumex spinosus</i>)	Spiny emex, Devil's thorn, Lesser jack
74	<i>Equisetum arvense</i>	Field horsetail, Common horsetail
75	<i>Erica lusitanica</i>	Spanish heath, Portuguese heath
76	<i>Euphorbia esula</i> (= <i>E. pseudovirgata</i> , <i>E. tommasiniana</i> , <i>E. virgata</i>)	Leafy spurge
77	<i>Euphorbia oblongata</i>	Oblong spurge
78	<i>Euphorbia terracina</i>	Geraldton carnation
79	<i>Fallopia japonica</i> (<i>Polygonum cuspidatum</i> , <i>Polygonum Reynoutria</i> , <i>Reynoutria japonica</i>)	Japanese knotweed
80	<i>Fallopia bohemica</i>	Japanese knotweed hybrid
81	<i>Galium tricornutum</i> (= <i>G. tricorne</i>)	Three-horned bedstraw, Corn-cleavers
82	<i>Gaura coccinea</i> (= <i>G. odorata</i>)	Scarlet gaura
83	<i>Gaura drummondii</i> (= <i>G. odorata</i>)	Drummond's gaura
84	<i>Gmelina asiatica</i>	Badhara bush
85	<i>Gunnera tinctoria</i> (= <i>G. chilensis</i> , <i>Panke tinctoria</i>)	Chilean rhubarb
86	<i>Gymnocoronis spilanthoides</i>	Senegal tea plant, Temple plant
87	<i>Halimodendron halodendron</i> (= <i>Caragana argentea</i> , <i>Halimodendron argenteum</i> , <i>Robinia halodendron</i> .)	Russian salt tree
88	<i>Halogeton glomeratus</i> (= <i>Anabasis glomerata</i>)	Halogeton
89	<i>Harungana madagascariensis</i> (= <i>Haronga madagascariensis</i>)	Harungana, Haronga, Dragon's-blood-tree
90	<i>Helianthus ciliaris</i>	Blueweed, Texas blueweed
91	<i>Hieracium aurantiacum</i> (= <i>Pilosella aurantiaca</i>)	Orange hawkweed
92	<i>Hieracium pilosella</i> (= <i>Pilosella officinarum</i>)	Mouse-ear hawkweed
93	<i>Hieracium praealtum</i>	King devil
94	<i>Hydrilla verticillata</i>	Hydrilla

95	<i>Hydrocharis morsus-ranae</i>	Frog's-bit
96	<i>Hydrodictyon reticulatum</i>	Water net
97	<i>Hygrophila costata</i> (= <i>H. brasiliensis</i> , <i>H. guianensis</i> , <i>Ruellia brasiliensis</i>)	Hygrophila
98	<i>Hygrophila polysperma</i> (= <i>Justicia polysperma</i>)	Miramar weed, Hygrophila
99	<i>Hymenachne amplexicaulis</i>	Olive hymenachne, West Indian marsh grass
100	<i>Hypericum androsaemum</i>	Tutsan
101	<i>Hypericum inodorum</i> (= <i>H. elatum</i>)	Tall St John's wort, Tall tutsan
102	<i>Hypericum triquetrifolium</i> (= <i>H. crispum</i>)	Tangled hypericum
103	<i>Hyptis capitata</i>	Knobweed
104	<i>Hyptis pectinata</i> (= <i>Nepeta pectinata</i>)	Comb hyptis
105	<i>Hyptis suaveolens</i> (= <i>Ballota suaveolens</i>)	Wild spikenard, Hyptis
106	<i>Imperata brasiliensis</i>	Brazilian satin-tail
107	<i>Imperata brevifolia</i> (= <i>Imperata hookeri</i>)	Satin-tail
108	<i>Ipomoea triloba</i>	Little-bell, Aiea morning-glory
109	<i>Iris douglasiana</i>	Douglas iris
110	<i>Iris missouriensis</i>	Western blue flag, Rocky Mountain iris
111	<i>Ischaemum rugosum</i>	Murain-grass
112	<i>Iva axillaris</i>	Poverty weed
113	<i>Lagascea mollis</i>	Acuate
114	<i>Lepidium latifolium</i>	Perennial pepperweed, Perennial peppergrass
115	<i>Limnobium spongia</i> (= <i>Hydrocharis spongia</i>)	American spongeplant
116	<i>Limnocharis flava</i> (= <i>Alisma flavum</i> , <i>Limnocharis emarginata</i>)	Sawah flowering rush, Yellow burrhead
117	<i>Limnophila indica</i> (= <i>Hottonia indica</i>)	Ambulia
118	<i>Limnophila sessiliflora</i> (= <i>Hottonia sessiliflora</i>)	Ambulia
119	<i>Linaria dalmatica</i> (= <i>Antirrhinum dalmaticum</i> ,	Dalmatian toadflax, Broadleaf

	<i>Linaria genistifolia</i> subsp. <i>dalmatica</i>)	toadflax
120	<i>Ludwigia peploides</i>	Primrose willow, Creeping water-primrose
121	<i>Malachra alceifolia</i>	Malachra
122	<i>Malvella leprosa</i> (= <i>Sida hederacea</i> , <i>Sida leprosa</i> var. <i>hederacea</i>)	Alkali mallow, Alkali sida
123	<i>Marsilea mutica</i>	Nardoo, Australian water-clover
124	<i>Martynia annua</i> (= <i>M. diandra</i>)	Devil's claw
125	<i>Medinilla venosa</i> (= <i>Melastoma venosum</i>)	
126	<i>Melastoma malabathricum</i> (= <i>Melastoma normale</i>)	Indian-rhododendron
127	<i>Melastoma</i> spp.	Melastoma
128	<i>Menyanthes trifoliata</i>	Bog bean
129	<i>Miconia</i> spp.	Miconia
130	<i>Mikania cordata</i>	Mile-a-minute
131	<i>Mikania micrantha</i>	Mile-a-minute, Climbing hempweed
132	<i>Mikania scandens</i> (= <i>Eupatorium scandens</i> , <i>Willoughbya scandens</i>)	Climbing hempweed
133	<i>Mimosa diplotricha</i> (= <i>M. invisa</i>)	Giant sensitive-plant
134	<i>Miscanthus floridulus</i> (= <i>M. japonicus</i> , <i>Saccharum floridulum</i>)	Giant Chinese silver grass, Japanese silver grass
135	<i>Monochoria hastata</i>	Arrow-leaf monochoria, Hastate-leaf-pondweed
136	<i>Monochoria vaginalis</i> (= <i>M. vaginalis</i> var. <i>pauciflora</i> , <i>Pontederia vaginalis</i>)	Oval-leaf monochoria, Oval-leaf-pondweed, Pickerel-weed
137	<i>Muhlenbergia schreberi</i> (= <i>M. diffusa</i>)	Nimblewill
138	<i>Myagrum perfoliatum</i>	Muskweed
139	<i>Najas guadalupensis</i>	Southern naiad
140	<i>Nassella charruana</i> (= <i>Stipa charruana</i>)	Lobed needlegrass

141	<i>Nassella hyalina</i> (= <i>Stipa hyalina</i>)	Cane needlegrass
142	<i>Nassella leucotricha</i> (= <i>Stipa leucotricha</i>)	Texas needlegrass
143	<i>Nechamandra alternifolia</i> (= <i>Vallisneria alternifolia</i>)	
144	<i>Neyraudia reynaudiana</i> (= <i>Arundo reynaudiana</i>)	Burma reed
145	<i>Nuphar lutea</i> (= <i>N. minor</i> , <i>N. sericea</i> , <i>N. spathulifera</i> , <i>N. tenella</i> , <i>Nymphaea lutea</i> , <i>N. umbilicalis</i> , <i>Nymphozanthus luteus</i> , <i>N. sericeus</i> , <i>N. vulgaris</i>)	Yellow water-lily
146	<i>Nymphoides geminata</i> (= <i>Villarsia geminata</i>)	Entire marshwort
147	<i>Nymphoides peltata</i> (= <i>Limnanthemum peltatum</i>)	Gringed waterlily, Yellow floating-heart
148	<i>Oenanthe pimpinelloides</i>	Water dropwort, Corky-fruit water-dropwort
149	<i>Ononis alopecuroides</i>	Foxtail restharrow
150	<i>Onopordum acaulon</i>	Stemless thistle
151	<i>Onopordum illyricum</i>	Illyrian thistle
152	<i>Onopordum tauricum</i>	Taurian thistle, Taurean thistle
153	<i>Orobanche cooperi</i> (= <i>O. ludoviciana</i> var. <i>cooperi</i>)	Cooper's broomrape
154	<i>Oryza rufipogon</i> (= <i>O. fatua</i> , <i>O. sativa</i> var. <i>fatua</i>)	Red rice, Perennial wild red rice
155	<i>Ottelia alismoides</i>	Duck-lettuce, Water-plantain ottelia
156	<i>Oxyspora paniculata</i> (= <i>Arthrostemma paniculatum</i>)	
157	<i>Paederia cruddasiana</i>	Sewer vine
158	<i>Paederia foetida</i> (= <i>P. magnifica</i> , <i>P. scandens</i> , <i>P. tomentosa</i> <i>Gentiana scandens</i>)	Skunk vine
159	<i>Panicum antidotale</i> (= <i>P. miliare</i> , <i>P. proliferum</i>)	Blue panic grass
160	<i>Parietaria judaica</i> (= <i>P. diffusa</i>)	Wall pellitory

161	<i>Passiflora bicornis</i> (= <i>P. pulchella</i>)	Wingleaf passionfruit
162	<i>Pennisetum alopecuroides</i> (= <i>Alopecurus hordeiformis</i> , <i>Panicum alopecuroides</i> , <i>Pennistenum compressum</i> , <i>P. hordeiforme</i> , <i>P. japonicum</i>)	Chinese pennisetum, Swamp foxtail grass
163	<i>Pennisetum pedicellatum</i>	Kyasuwa-grass
164	<i>Pennisetum polystachion</i>	Mission grass, Thin Napier grass
165	<i>Persicaria perfoliata</i> (= <i>Polygonum perfoliatum</i>)	Devil's tail tearthumb, Mile-a-minute-vine, Mile-a-minute-weed
166	<i>Persicaria wallichii</i> (= <i>P. polystachya</i> , <i>Polygonum polystachyum.</i> , <i>Rubrivena polystachya</i>)	Himalayan knotweed
167	<i>Physalis longifolia</i> (= <i>P. subglabrata</i> , <i>P. virginiana</i> var. <i>sonorae</i>)	Long-leaf ground-cherry
168	<i>Picnomon acarna</i>	Soldier thistle
169	<i>Piper aduncum</i> (= <i>P. angustifolium</i> , <i>P. celtidifolium</i> , <i>P. elongatum</i>)	Spiked pepper, Piper
170	<i>Potamogeton perfoliatus</i>	Clasped pondweed
171	<i>Pontederia rotundifolia</i> (= <i>Reussia rotundifolia</i>)	Tropical pickerel-weed
172	<i>Prosopis alata</i>	Mesquite
173	<i>Prosopis argentina</i>	Mesquite
174	<i>Prosopis bukartii</i>	Mesquite
175	<i>Prosopis caldenia</i>	Mesquite
176	<i>Prosopis calingastana</i>	Cusqui, Mesquite
177	<i>Prosopis campestris</i>	Mesquite
178	<i>Prosopis castellanosi</i>	Mesquite
179	<i>Prosopis denudans</i> (= <i>P. patagonica</i>)	Mesquite
180	<i>Prosopis elata</i> (= <i>P. campestris</i> var. <i>elata</i>)	Mesquite
181	<i>Prosopis farcta</i> (= <i>Mimosa farcta</i>), <i>M. stephaniana</i> , <i>P. stephaniana</i>)	Syrian mesquite

182	<i>Prosopis ferox</i>	Mesquite
183	<i>Prosopis fiebrigii</i>	Mesquite
184	<i>Prosopis hassleri</i>	Mesquite
185	<i>Prosopis humilis</i>	Mesquite
186	<i>Prosopis kuntzei</i>	Mesquite
187	<i>Prosopis palmeri</i>	Mesquite
188	<i>Prosopis reptans</i> (= <i>P. cinerascens</i> , <i>Strombocarpa cinerascens</i>)	Mesquite
189	<i>Prosopis rojasiana</i>	Mesquite
190	<i>Prosopis ruizlealii</i>	Mesquite
191	<i>Prosopis ruscifolia</i>	Mesquite
192	<i>Prosopis sericantha</i>	Mesquite
193	<i>Prosopis strombulifera</i> (= <i>Acacia strombulifera</i> , <i>Mimosa strombulifera</i>)	Argentine screwbean, Creeping mesquite
194	<i>Prosopis torquata</i> (= <i>Acacia torquata</i>)	Mesquite
195	<i>Pueraria phaseoloides</i> (= <i>Dolichos phaseoloides</i> , <i>Neustanthus javanicus</i> , <i>Pueraria javanica</i>)	Tropical kudzu
196	<i>Ranunculus acris</i> (= <i>R. friesianus</i>)	Giant buttercup
197	<i>Ranunculus sceleratus</i>	Celery-leaf buttercup
198	<i>Reseda phyteuma</i>	Rampion mignonette
199	<i>Rorippa austriaca</i> (= <i>Nasturtium austriacum</i>)	Austrian field cress
200	<i>Rorippa sylvestris</i>	Creeping yellow field cress
201	<i>Rubus anglocandicans</i>	Blackberry
202	<i>Rubus argutus</i>	Prickly Florida blackberry
203	<i>Rubus ellipticus</i> (= <i>R. ellipticus</i> var. <i>obcordatus</i> , <i>R. flavus</i> , <i>R. gowreepful</i>)	Yellow Himalayan raspberry
204	<i>Rubus moluccanus</i> (= <i>R. hillii</i>)	Wild blackberry, Wild raspberry
205	<i>Rubus sieboldii</i>	Molucca raspberry
206	<i>Saccharum spontaneum</i> (= <i>S. arenicola</i> , <i>S.</i> <i>biflorum</i>)	Wild sugarcane

207	<i>Sagittaria montevidensis</i> (= <i>Lophotocarpus spongiosus</i> , <i>S. calycina</i>)	Giant arrowhead
208	<i>Sagittaria platyphylla</i> (= <i>S. graminea</i> var. <i>platyphylla</i>)	Sagittaria, Delta arrowhead
209	<i>Salsola collina</i>	Spineless Russian thistle, Tumbleweed
210	<i>Salsola paulsenii</i>	Barbwire Russian thistle
211	<i>Salsola vermiculata</i>	Wormleaf salsola, Wormleaf saltwort
212	<i>Salvia aethiopsis</i>	Mediterranean sage
213	<i>Salvia virgata</i> (= <i>S. campestris</i>)	Meadow sage
214	<i>Salvinia auriculata</i> (= <i>S. rotundifolia</i>)	Salvinia, giant salvinia
215	<i>Salvinia biloba</i>	Giant salvinia
216	<i>Salvinia herzogii</i>	Giant salvinia
217	<i>Sclerolaena birchii</i> (= <i>Anisacantha birchii</i>)	Galvanised burr
218	<i>Scolymus hispanicus</i>	Golden thistle
219	<i>Scolymus maculatus</i>	Spotted golden thistle
220	<i>Senecio jacobaea</i>	Tansy ragwort, St james' ragwort
221	<i>Senecio squalidus</i>	Oxford ragwort
222	<i>Senna tora</i> (= <i>Cassia tora</i>)	Java bean, Sicklepod senna
223	<i>Setaria faberi</i>	Chinese foxtail, Giant foxtail
224	<i>Setaria palmifolia</i> (= <i>Panicum palmifolium</i> , <i>Chaetochloa palmifolia</i>)	Palm grass
225	<i>Solanum carolinense</i>	Horse nettle, Carolina horse nettle
226	<i>Solanum dimidiatum</i> Raf. (= <i>S. torreyi</i> A.Gray)	Torrey's nightshade
227	<i>Solanum lanceolatum</i>	Lance-leaf nightshade
228	<i>Solanum marginatum</i>	White-margined nightshade, White-edged nightshade
229	<i>Solanum robustum</i> (= <i>S. alatum</i>)	Silver-leaf nightshade
230	<i>Solanum tampicense</i>	Wetland nightshade

231	<i>Sonchus arvensis</i>	Perennial sow thistle
232	<i>Sparganium erectum</i> (= <i>S. chlorocarpum</i> , <i>S. polyedrum</i> , <i>S. ramosum</i>)	Exotic bur-reed, Bur reed
233	<i>Spermacoce alata</i> (= <i>Borreria alata</i>)	Borreria, Buttonweed
234	<i>Sphaerophysa salsula</i> (= <i>Colutea caspica</i> , <i>Phaca salsula.</i> , <i>Swainsona salsula</i>)	Austrian peaweed
235	<i>Stratiotes aloides</i>	Water-aloe, Soldier plant, Water-soldier
236	<i>Symphytum asperum</i> (= <i>S. asperrimum</i>)	Prickly comfrey, Rough comfrey
237	<i>Taeniatherum caput-medusae</i> (= <i>Cuviera caput-medusae</i> var. <i>aspera</i> , <i>Elymus caput-medusae</i> , <i>E. crinitus</i> , <i>Hordeum crinitum</i> , <i>T. asperum</i> , <i>T. crinitum</i>)	Medusa-head, Medusa's-head
238	<i>Themeda quadrivalvis</i> (= <i>Andropogon quadrivalvis</i> , <i>Anthristia ciliata</i> , <i>Themeda ciliata</i>)	Grader grass, Habana grass
239	<i>Themeda villosa</i> (= <i>Anthistiria villosa</i> , <i>Themeda gigantea</i> subsp. <i>villosa</i>)	Lyon's grass
240	<i>Thunbergia annua</i>	Thunbergia
241	<i>Thunbergia fragrans</i> (= <i>T. volubilis</i> , <i>Flemingia grandiflora</i>)	Fragrant thunbergia, White thunbergia
242	<i>Tribulus cistoides</i> (= <i>T. terrestris</i> var. <i>cistoides</i>)	Caltrop
243	<i>Triumfetta semitriloba</i>	Sacramento bur
244	<i>Tropaeolum speciosum</i>	Chilean flame creeper, Flame nasturtium
245	<i>Vallisneria gigantean</i>	Eelgrass
246	<i>Verbascum thapsus</i>	Mullein, Great mullein
247	<i>Viscum album</i>	European mistletoe
248	<i>Zizania latifolia</i> (= <i>Z. caduciflora</i> , <i>Hydropyrum latifolium</i>)	Manchurian wild rice
249	<i>Zygophyllum fabago</i> (= <i>Z. fabago</i> var.	Syrian bean-caper

	<i>brachycarpum</i>)	
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3.2 INVASIVE SPECIES

3.2.1 Mammals

No	Species	Common Name
1	<i>Addax nasomaculatus</i>	Addax
2	<i>Aepyceros melampus petersi</i>	Black-faced impala
3	<i>Ammotragus lervia</i>	Barbary sheep
4	<i>Antilope cervicapra</i>	Indian blackbuck
5	<i>Axis axis</i>	Axis deer (Chital)
6	<i>Axis porcinus</i>	Hog deer
7	<i>Boselaphus tragocamelus</i>	Nilgai
8	<i>Cervus nippon</i>	Sika deer
9	<i>Elaphurus davidianus</i>	Pere David's deer
10	<i>Hemitragus jemlahicus</i>	Himalayan tahr
11	<i>Hippotragus koba</i>	Western roan
12	<i>Kobus ellipsiprymnus crawshayi</i>	Crawshay's waterbuck (Zambia)
13	<i>Kobus ellipsiprymnus defassa</i>	Defassa waterbuck (Kenya)
14	<i>Kobus vardonii</i>	Puku
15	<i>Myocastor coypus</i>	Coypu
16	<i>Oryx dammah</i>	Scimitar-horned oryx
17	<i>Ovis musimon</i>	Mouflon
18	<i>Rusa unicolor</i>	Sambar deer

3.2.2 Reptiles

No	Species	Common Name
1	<i>Chelydra serpentina</i>	Common snapper turtle
2	<i>Trachemys scripta elegans</i>	Red-eared slider

3.2.3 Freshwater fish

No	Species	Common name
1	<i>Micropterus dolomieu</i>	Smallmouth bass
2	<i>Micropterus punctulatus</i>	Spotted bass
3	<i>Micropterus salmoides</i>	Largemouth bass
4	<i>Oncorhynchus mykiss</i>	Rainbow trout
5	<i>Oreochromis niloticus</i>	Nile tilapia
6	<i>Tinca tinca</i>	Tench

3.2.4 Freshwater invertebrates

No	Species	Common Name
1	<i>Cherax tenuimanus</i>	marron
2	<i>Cherax quadricarinatus</i>	Redclaw crayfish
3	<i>Marisa cornuarietis</i>	apple snail
4	<i>Procambarus clarkii</i>	red swamp crayfish
5	<i>Tarebia granifera</i>	quilted malania

3.2.5 Plants

No	Species	Common Name
1	<i>Acacia dealbata</i>	Silver wattle
2	<i>Acacia decurrens</i>	Green wattle
3	<i>Acacia elata</i>	Pepper tree wattle
4	<i>Acacia implexa</i>	Screw pod wattle
5	<i>Acacia longifolia</i>	Long-leaved wattle
6	<i>Acacia paradoxa</i>	Kangaroo wattle
7	<i>Acacia pycnantha</i>	Golden wattle
8	<i>Ageratum conyzoides</i>	Invader ageratum
9	<i>Ageratum houstonianum</i>	Mexican ageratum
10	<i>Agrimonia procera</i>	Scented agrimony
11	<i>Ailanthus altissima</i>	Tree – of – heaven
12	<i>Alhagi maurorum</i>	Camel thorn bush
13	<i>Alisma plantago</i>	Mud plantain, Water alisma
14	<i>Ammophila arenaria</i>	Marram grass
15	<i>Anredera cordifolia</i>	Madeira vine, Bridal wreath
16	<i>Antigonon leptopus</i>	Coral creeper
17	<i>Araujia sericifera</i>	Moth catcher
18	<i>Ardisia crenata</i>	Coralberry tree / Coral bush
19	<i>Ardisia elliptica</i>	Shoebuttan ardisia
20	<i>Argemone mexicana</i>	Yellow - flowered Mexican poppy
21	<i>Aristolochia elegans</i>	Dutchman's pipe
22	<i>Arundo donax</i>	Giant reed
23	<i>Atriplex inflata</i> (= <i>A. lindleyi</i> subsp. <i>inflata</i>)	Sponge - fruit saltbush
24	<i>Azolla filiculoides</i>	Azolla, Red water fern
25	<i>Bauhinia purpurea</i>	Butterfly orchid tree
26	<i>Bauhinia variegata</i>	Orchid tree
27	<i>Bryophyllum delagoense</i> (= <i>B. tubiflorum</i> ; <i>Kalanchoe tubiflora</i> ; <i>K. delagoensis</i>)	Chandelier plant
28	<i>Caesalpinia decapetala</i> (= <i>C. sepiaria</i>)	Mauritius thorn

29	<i>Calotropis procera</i>	Calotropis, Giant - milkweed
30	<i>Campuloclinium macrocephalum</i> (= <i>Eupatorium macrocephalum</i>)	Pom pom weed
31	<i>Cardiospermum grandiflorum</i>	Balloon vine
32	<i>Cereus jamacaru</i>	Queen of the night
33	<i>Cestrum aurantiacum</i>	Yellow or Orange cestrum
34	<i>Cestrum laevigatum</i>	Inkberry
35	<i>Chromolaena odorata</i> (= <i>Eupatorium odoratum</i>)	Triffid weed, Chromolaena
36	<i>Cirsium vulgare</i> (= <i>C. lanceolatum</i>)	Spear thistle, Scotch thistle
37	<i>Convolvulus arvensis</i>	Field bindweed, Wild morning - glory
38	<i>Cortaderia jubata</i>	Pampas grass
39	<i>Cotoneaster franchetii</i>	Cotoneaster
40	<i>Cotoneaster glaucophyllus</i>	Late cotoneaster
41	<i>Cotoneaster pannosus</i>	Silver leaf cotoneaster
42	<i>Cotoneaster salicifolius</i>	Willow - leaved showberry
43	<i>Cotoneaster simonsii</i>	Himalayan cotoneaster, Simon's cotoneaster
44	<i>Cuscuta campestris</i>	Common dodder
45	<i>Cuscuta suaveolens</i>	Lucerne dodder
46	<i>Cyathea australis</i>	Rough tree fern
47	<i>Datura ferox</i>	Large thorn apple
48	<i>Datura innoxia</i>	Downy thorn apple
49	<i>Datura stramonium</i>	Common thorn apple
50	<i>Duchesnea indica</i>	Wild strawberry
51	<i>Echinopsis spachiana</i> (= <i>Trichocereus spachianus</i>)	Torch cactus
52	<i>Echium plantagineum</i> (= <i>E. lycopsis</i>)	Patterson's curse
53	<i>Echium vulgare</i>	Blue echium
54	<i>Eichhornia crassipes</i>	Water hyacinth
55	<i>Flaveria bidentis</i>	Smelter's - bush
56	<i>Hakea gibbosa</i>	Rock hakea
57	<i>Hakea sericea</i>	Silky hakea

58	<i>Harrisia martinii</i> (= <i>Eriocereus martini</i>)	Moon cactus, <i>Harrisia cactus</i>
59	<i>Hylocereus undatus</i>	Night - blooming cereus
60	<i>Ipomoea alba</i>	Moonflower
61	<i>Ipomoea indica</i> (= <i>I. congesta</i>)	Morning glory
62	<i>Ipomoea purpurea</i>	Morning glory
63	<i>Ipomoea indica</i> (= <i>I. congesta</i>)	Morning glory
64	All seed producing species or seed producing hybrids of <i>Lantana</i> that is non -indigenous to Africa	Lantana, Tickberry, Cherry pie
65	<i>Lepidium draba</i> (= <i>Cardaria draba</i>)	Hoary cardaria
66	<i>Leptospermum laevigatum</i>	Australian myrtle
67	<i>Litsea glutinosa</i> (= <i>Litsea sebifera</i>)	Indian laurel
68	<i>Macfadyena unguis - cati</i>	Cat's claw creeper
69	<i>Mimosa pigra</i>	Giant sensitive plant
70	<i>Mirabilis jalapa</i>	Four - o'clock, Marvel - of - Peru
71	<i>Montanoa hibiscifolia</i>	Tree daisy
72	<i>Myoporum tenuifolium</i> subsp. <i>Montanum</i> (= <i>M. montanum</i>)	Manatoka
73	<i>Myriophyllum aquaticum</i>	Parrot's feather
74	<i>Myriophyllum spicatum</i>	Spiked water - milfoil
75	<i>Nassella tenuissima</i> (= <i>Stipa tenuissima</i>)	White tussock
76	<i>Nassella trichotoma</i> (= <i>Stipa trichotoma</i>)	Nassella tussock
77	<i>Nicotiana glauca</i>	Wild tobacco
78	<i>Nymphaea mexicana</i>	Yellow water lilies
79	<i>Opuntia aurantiaca</i>	Jointed cactus
80	<i>Opuntia engelmannii</i> (= <i>O. lindheimeri</i>)	Small round - leaved prickly pear
81	<i>Opuntia fulgida</i>	Rosea cactus, Chain - fruit chollar
82	<i>Opuntia humifusa</i>	Large flowered prickly pear, Creeping prickly pear
83	<i>Opuntia imbricata</i> (= <i>Cylindropuntia imbricata</i>)	Imbricate cactus, Imbricate prickly pear
84	<i>Opuntia monacantha</i>	Cochineal prickly pear, Drooping prickly pear
85	<i>Opuntia stricta</i> (= <i>O. dillenii</i>)	Pest pear of Australia

86	<i>Orobanche minor</i>	Lesser broomrape, Clover broomrape
87	<i>Orobanche ramosa</i>	Blue broomrape, Branched broomrape
88	<i>Paraserianthes lophantha</i> (= <i>Albizia lophantha</i>)	Australian albizia, Stink bean
89	<i>Parthenium hysterophorus</i>	Parthenium
90	<i>Passiflora caerulea</i>	Blue passion flower
91	<i>Passiflora suberosa</i>	Devil's pumpkin, Indigo berry
92	<i>Paulownia tomentosa</i> (= <i>Paulownia imperialis</i> .)	Empress tree, Princess tree, Royal Paulownia
93	<i>Pennisetum purpureum</i>	Elephant grass, Napier grass
94	<i>Pennisetum villosum</i>	Feathertop
95	<i>Pereskia aculeata</i>	Pereskia, Barbados gooseberry
96	<i>Phytolacca icosandra</i> (= <i>P. octandra</i>)	Forest inkberry
97	<i>Plectranthus comosus</i> (= <i>Coleus grandis</i>)	'Abyssinian' coleus, Woolly plectranthus
98	<i>Psidium cattleianum</i> (= <i>P. littorale</i> var. <i>Longipes</i>)	Strawberry guava
99	<i>Pyracantha angustifolia</i>	Yellow firethorn
100	<i>Pyracantha crenulata</i>	Himalayan firethorn
101	<i>Robinia pseudoacacia</i>	Black locust
102	<i>Rosa rubiginosa</i> (= <i>R. eglanteria</i>)	Eglantine, Sweetbriar
103	<i>Rubus niveus</i>	Ceylon raspberry, Mysore raspberry
104	<i>Salsola kali</i>	Tumbleweed
105	<i>Salsola tragus</i> (= <i>S. australis</i>)	Russian tumbleweed
106	<i>Salvia tiliifolia</i>	Lindenleaf sage
107	<i>Sambucus canadensis</i> (= <i>S. nigra</i> subsp. <i>Canadensis</i>)	Canadian elder
108	<i>Sambucus nigra</i>	European elder
109	<i>Schinus terebinthifolius</i>	Brazilian pepper tree
110	<i>Senna bicapsularis</i> (= <i>Cassia bicapsularis</i>)	Rambling cassia
111	<i>Senna hirsuta</i> (= <i>Cassia hirsuta</i>)	
112	<i>Senna occidentalis</i> (= <i>Cassia occidentalis</i>)	Stinking weed, Wild coffee
113	<i>Senna pendula</i> var. <i>glabrata</i> (= <i>Cassia coluteoides</i>)	

114	<i>Senna septemtrionalis</i> (= <i>Cassia floribunda</i> , <i>C. laevigata</i>)	Arsenic bush, Smooth senna
115	<i>Sesbania punicea</i>	Red sesbania
116	<i>Solanum chrysotrichum</i>	Giant devil's fig
117	<i>Solanum elaeagnifolium</i>	Silver - leaf bitter apple
118	<i>Solanum mauritianum</i>	Bugweed
119	<i>Solanum pseudocapsicum</i>	Jerusalem cherry
120	<i>Solanum seaforthianum</i>	Potato creeper
121	<i>Solanum sisymbriifolium</i>	Wild tomato, Dense - thorned bitter apple
122	<i>Tamarix aphylla</i>	Athel tree, Desert tamarisk
123	<i>Tamarix chinensis</i>	Chinese tamarisk
124	<i>Tamarix gallica</i>	French tamarisk
125	<i>Tamarix ramosissima</i>	Pink tamarisk
126	<i>Tecoma stans</i>	Yellow bells
127	<i>Thevetia peruviana</i> . (= <i>T. nerifolia</i>)	Yellow oleander
128	<i>Tithonia diversifolia</i>	Mexican sunflower
129	<i>Tithonia rotundifolia</i>	Red sunflower
130	<i>Ulex europaeus</i>	European gorse
131	<i>Verbena bonariensis</i>	Wild verbena, Tall verbena, Purple top
132	<i>Verbena brasiliensis</i>	Brazilian verbena