

## APPENDIX FIVE: SOUTH AFRICA STATE OF THE ENVIRONMENT REPORT 2002 INDICATORS

Theme	Indicator
Climate Change	Greenhouse gas emissions (carbon dioxide, nitrous oxide and methane)
	Energy use (fossil fuels vs. non-fossil fuels)
	Size of the national net carbon sink
	Malaria: morbidity and mortality
	Mean annual temperature
	Cost of carbon abatement
	Cost of natural disaster relief
Stratospheric Ozone	Energy intensity
	Consumption of ozone depleting substances
	UV-B trends
Air Quality	Stratospheric ozone level
	Ambient Sulphur Dioxide Concentration
Species Diversity	Ambient Nitrogen Dioxide Concentration
	Threatened and extinct species per taxonomic group
	Endemic species per taxonomic group
	Alien (non-indigenous) species per taxonomic group
	Population trends of selected species
Habitat Change	Distribution and abundance of selected alien (non-indigenous) species
	Extent of conserved areas
	Extent of natural areas remaining
	Disturbance regimes : fire frequency
Resource Value	Disturbance regimes : flood and drought
	Contribution to job creation : conservation areas
	Contribution to job creation : eradication of alien species
	Economic contribution of commercially utilised indigenous species
	Economic contribution of commercially utilised freshwater species
	Economic contribution of commercially utilised marine, coastal & estuarine species
Environmental Management	Economic contribution of commercially utilised terrestrial species
	Multi-lateral environmental agreements
	Budgetary allocation to natural resource management
	Budgetary allocation to environmental education
	Budgetary allocation to environmental research
	Inclusion of Integrated Environmental Management (IEM) into IDPs and SDIs
	Conciliation Cases
	Voluntary adoption of environmental management systems
	Voluntary use of environmental accounting & reporting
	Government capacity for environmental management
Environmental reporting by government departments	
Human Settlements	Green space per settlement
	Contaminated land per settlement
	Housing density
	Urban and rural population
	Proportion of urban area in South Africa
Vulnerability	GDP per capita
	Life expectancy
	Adult literacy rate
	Employment rate
	Population growth rate
	HIV / AIDS incidence
	Household energy use
	Access to water
Access to sanitation	
Water Quantity	Intensity of use of surface water resources
	Intensity of use of ground water resources
	Total surface water used per sector
	Total ground water used per sector
	Total surface water resources available per capita
	People dependent on ground water resources
Water Quality	Surface water affordability
	Surface water salinity
	Ground water salinity
	Surface water nutrients
	Ground water nutrients
	Surface water microbiology
Ground water microbiology	
Surface water toxicity	

Theme	Indicator
Freshwater Ecosystem Integrity	Riparian vegetation
	Aquatic macro-invertebrate composition
	Fish community health
	Aquatic habitat integrity
Land Use	Land cover
	Land productivity vs. potential
Land Condition	Desertification
	Soil loss
	Soil acidification
	Soil salinisation
	Land degradation
	Persistent organic pollutants
Resource Management	Catches and Maximum Sustainable Yield per fishery sector
	Distribution and abundance of resource species
	Catch per unit effort per fishery sector
	Commercial fishing rights supporting SMME
Resource Quality	Estuarine Health Index (State of South African estuaries)
	Pollutant loading entering the seas from land based sources
	Blue Flag beaches
	Concentrations of heavy metals in sediments or biological tissues
	Oil pollution accidents along the coast
	Land cover change in the coastal zone
	Population density change in the coastal zone
Natural Heritage Resources	Status of natural heritage resources
	Investment into natural heritage resources
	Visitors to natural heritage resources
Waste Generation	General waste produced per income group per year
	General waste produced per capita per year
	Hazardous waste produced per sector per year
Waste Reduction	Waste recycling
	Value of waste recycled
	General waste correctly disposed through landfill
	Hazardous waste correctly disposed
	Available landfill lifespan
	Provincial expenditure on waste management
Provincial waste collection capacity	