WORLD HERITAGE

PERIODIC REPORTING EXERCISE ON THE APPLICATION OF THE WORLD HERITAGE CONVENTION IN THE AFRICAN REGION

SECTION II

SECTION II : STATE OF CONSERVATION OF SPECIFIC WORLD HERITAGE PROPERTIES

[Copy this section for each site concerned by the reporting exercise]

- (II.i) The twenty-ninth General Conference of UNESCO, in its decision regarding the application of Article 29 of the World Heritage Convention, invited the States Parties to submit reports on the application of the World Heritage Convention, including the state of conservation of the World Heritage properties located on their territories.
- (II.ii) The primary documents in respect of each World Heritage property are the nomination dossier as it was submitted by the State Party and the decision of the World Heritage Committee regarding the inscription of the property on the World Heritage List.
- (II.iii) The preparation of periodic state of conservation reports should involve those who are responsible for the day-to-day management of the property. For trans-boundary properties it is recommended that reports be prepared jointly by or in close collaboration between the agencies concerned. The preparation of periodic state of conservation reports could include expert advice from the Secretariat and/or the Advisory Bodies, if and when the State Party(ies) concerned so wish(es).
- (II.iv) The first periodic report should update the information provided in the original nomination dossier. Subsequent reports will then focus on any changes that may have occurred since the previous report was submitted.
 - This section of the periodic report follows, therefore, the format for the nomination dossier.
- (II.v) The state of properties included in the List of World Heritage in Danger is reviewed by the World Heritage Committee at regular intervals, in general once every year. This review concentrates on the specific factors and considerations that led to the inscription of the property on the List of World Heritage in Danger. It will still be necessary to prepare a complete periodic report on the state of conservation of these properties.
- (II.vi) This section should be completed for each individual World Heritage property. States Parties are invited to provide information under the following headings:

II.1. Introduction

Т		C	001
•	State Party	ZIMBABUE	
,	Indicate the name of the property as inscribed on the World Heritage List	MANA POOLS NATIONAL PARK SAPIAN CHE WOR	002 E SAFA
	Indicate the geographical co- ordinates to the nearest second	Localisation: Latitude: 15°35' AND 16°30' SOUTH Longitude: 29°00' AND 30°25' EAST	
			004
d	Date of inscription on the World Heritage List	2 NOVEMBER 1984	
e	Organisation(s) or entity(ies) responsible for the preparation of this report. Give the necessary details to enable possible contact.	Organisation: DEPARTMENT OF NATIONAL PARAMEMENT Person responsible: THE WALDEN (ELECKSON MANDERS: MANDE POELS NATIONAL PARK, P.BAY 2000 City and post code: KARDI Telephone: 263-063-533 OR 538 Fax: 263-04-724914/792782 E-mail: national parks @ 960. you. Zw	rog ovu
-			009
	f Date of the report	09 APRIL 2001	
	g Signature on behalf of the State Part	Surname and given name: LANHANA EW	010
		Function: DIRECTOR.	
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II.2. Statement of significance

II.2.1.Information provided at the time of inscription

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	by the State Party,	Justification for the inscription provided by the State Party 1. BEATIFUL SCENERY VIEW OF VALLEY PLOOP A STO METRES ABOVE SEA LEVEL, FROM THE ESCARPMENT 1000 METRES ABOVE SEA LEVEL 2. MANA POOLS FLOOD PLAIN. 3. HABITAT FOR ENDANGERED ANIMAL SPECIES CJ. BLACK RHIND AND ELEPHANT 4. LARGE AND DIVERSE POPULATIONS OF HERBIVORES RESIDENT IN THE LAND SCAPE 5. THE MUDATA GOLGE (30 KM LONG) WHICH 18 PAPI OF THE GLEAT VALUE AIGT SALES MARKS GEDLOGICAL ROMARIONS OVER BLOWL PARTS OF TIME.
ь	as well as the criteria according to which the Committee inscribed the property on the World Heritage List. Circle the numbers of the relative criteria.	Criteria retained for the inscription: Cultural criteria: i - ii - iii - iv - v - vi Natural criteria: i - ii - iii - iv
С	Observations made by the advisory body during evaluation	IN NEED FOR LOWER ZAMBEZI AND LUANGINA VALLEY NATIONAL PARKS IN ZAMBIA TO GET EQUAL PROTECTION WITH MANA POOLS IN OADER TO HAVE A SUFFICIENTLY LARGE CONSERNATION LANDSCAPE FOR ECULOGICAL PROCESSES OF RIVERING NATIONE TO CONTINUE 2. FURTHER RESEARCH EN THE ECOLOGICAL EFFECTS OF THE REDUCTION IN FLOODING LOVERS IMPACTION OF THE PROPOSED MUPATA GOLDE DAM CONSTRUCTION
d	Observations made by the World Heritage Committee at the time of inscription	
e	Reactions to these observations	A WE HAVE NOT HEARD ANY THINK ABOUT ZAMBIAS LOWER ZAMBER NATIONAL PACK PRESCRITATION ROLLISTING 2. MONITORING OF THE FLOODPRIM ECOSYSTEM MONITORISD. 3. THE MURATA GORGE USENE REMAINS STRENT:

.2.2.U	pdate of the statement of sign	rificance	7
In the	view of the State Party, does tement of significance ately reflect the World sge values of the property?	YES / NO	
could recog Work versa either of the Comiden spec	a re-submission necessary? This I be considered, for example, to gnise cultural values of a natural Id Heritage property, or vicea. This may become necessary or due to the substantive revision be criteria by the World Heritage amittee or due to better attification or knowledge of crific outstanding universal values are property.	YES / NO YES / NO YES / NO	
here the V Prop app	World Heritage perty, and its buffer zone if ropriate, is adequate to ensure protection and conservation of World Heritage values embodied	Does the delimitation of the World Heritage property seem adequate: YES / NO Does the delimitation of the buffer zone seem adequate YES / NO	
box	evision or extension of the indaries might be considered in ponse to such a review.	Is the State Party considering asking for a revision of the boundaries: YES / NO	
avanee for state sign to ba in H	a statement of significance is not allable or incomplete, it will be cessary, in the first periodic report, the State Party to propose such a stement. The statement of enficance should reflect the criterion (criteria) on the sis of which the Committee scribed the property on the World eritage List. It should also address questions and as: What does the property expresent, what makes the property utstanding, what are the specific alues that distinguish the property,	AS PER WORLD HEIL JAGE COMMENTATIONS OF CRITERIA LECTUMENTATIONS OF CRITERIA LI, LII, IN DENAMINARE SITES A WIDE RANGE OF BIODINESSITY COMPRISED OF HEALTHS POPULATIONS OF MAMMMIA, BIRD AND ASH SPECIES INCLUDING ENDANGELOSD ON OUTSTANDING WILDCRIES VALUES AND BISTA	us us

- HOME TO ENDANGERED SPECIES LIKE BLACK
 LHINOCEROS, ELEPHANTS, PANGOLING ETC. THOUGH RHOUS HAVE BEEN MOVED TO OTHER SAFER AREAS
 AFTER BEING THREATENED BY POACHNY, IN ANTICIPATION TO BE RE-INTRODUCED LATER.
- THE PERENDUAL FLOWING ZAMBEZI RIVER AND ITS HABITARS FOR GIVERSY ARMATIC LIFE.

th an	ith its setting, etc. Such statement significance will be examined by the advisory body(ies) concerned and transmitted to the World seritage Committee for approval, if appropriate.		
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If necessary, add additional Information on a blank paper

Statement of authenticity / integrity II.3.

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II.4. Management

II.4.1.Legal and institutional framework

11.4.1.Legui ana institutional frai	7.000
Under this item, it is necessary to report on the implementation and effectiveness of protective legislation at the national, provincial or municipal level and/or contractual or traditional protection as well as of management and/or planning control for the property concerned,	Legal status:
	Legal framework (national and local) STATE LAMD PROTECTED AND CONSTITUTED TO PRESERVE AND PROTECT THE HATURAL LAMDSCAPE AND SCENERY THEREIN AND TO PRESERVE AND PROTECT WILDLIFE AND PRESERVE AND PROTECT WILDLIFE AND PRESERVE AND PROTECT WILDLIFE AND PROTECTION OF MATHEMATICAL STABILITY Institutional framework (local) ADMINISTERED FOR THE STATE BY THE DEPARTMENT OF NATIONAL PARKS AND WILDLIFE MANAGEMENT
	Agency(ies) responsible for the management: Responsible: DEPARTMENT OF NATIONAL PARK AND WILDLIFE MANAGEMENT Address: P. O BOX CJILLO, CAUSENTY Post code and city: HADARE, ZIMBARDE Telephone: 263 - 04 - 792787 - 9/703376 Fax: 263 - 04 - 724914/792782 E-mail: nationalparts @ gta. gov. 2w
	Actions foreseen to preserve the values for the future - CHIND C CICEROS DICEROS) HABITAT IS PRESERVED FOR FUTURE RE-INTRODUCTION OF THE SPECIOS AS PER MANAGEMENT PROGRAMME - RESEARCH IS GOING ON, THOUGH WITH SOME FINANCIAL LIMITATIONS, TO WORK OUT HOW TO ENHANCE FOOD RESOURCE AND BERTIANED ON THE PROPORTION. - PRESSURES FROM HERBI VORES AND CARNIVORE ALE ALSO MONITORED
	If necessary, add additional Information on a blank paper

II.4.2. Management and planning

a The State Party should also report on significant changes in the ownership, legal status and/or contractual or traditional protective measures, management arrangements and management plans as compared to the situation at the time of inscription or the previous periodic report.

Under which authority is the property managed:

the site ASPARTMENT OF NATIONAL PARKS AND WILDLIRE the region MASHONALAND WEST PROVINCE the region MASHONALAND WEST PROVINCES central administration NATIONAL PARKS AND WILDLIFE MANAGEMENT.

Changes occured at the site since inscription with MIL regard to:

ownership

legal status

protective measures

boundaries

available resources

In such case, the State Party is requested to attach to the periodic report all relevant documentation, in particular legal texts, management plans and/or (annual) work plans for the management and maintenance of the property

Indicate the different plans relating to the property, prepared and/or implemented by different authorities (national, regional, local) and which have a direct influence on the way in which the property is developed, conserved, utilised or visited. You may provide either a substantial summary of these plans, or significant extracts, or the complete plan in annex to this form.

Registered plans relating to the property:

regional plan: MIL

local plan: Alarm Maria Poots ALAN

conservation plan: DRAFT MANA POOLS PLANT

tourism development plan: CONTAINED IN THE DRAFT MANA POOLS PARK PLAN

etc.

If necessary, add additional Information on a blank paper

II. 4.3. Management plan of the site and statement of objectives

۲	11. 4.3. Munagement plan of the s		,
í	The management plan is a basic tool	Does a functional management plan exist: YES / NO	
	for the management of the site designed to organise the	,	
	conservation and to base the actions	IN DRAFT PLAN Is a management plan being prepared or updated:	
	for development relative to the	STANTED UNION VES / NO	and lack
	property. Brief extracts of the management plan could be cited and	STARTED UNDER WYES NO PROJECT BUT HALTED B	A LUMBS HELL
	the plan could be joined in annex to	Has the local community been consulted and	
	the dossier.		
		NO \(\square\)	
		NOT YET AT THAT STALLE, BUT THES ON	
		PLAN IN PREDEDATION OF FUTURE DI AND	
		Does the management plan take into account the	
		available human resources: YES NO	
		Door the management of a tall that	
	1	Does the management plan take into account the actual financial resources: YES / NO	
	1	actual financial resources: YES / NO	
	!	Door the management when in alord a second	
	1	Does the management plan include aspects of	
		personnel training: YES 7 NO	
		Door the management plan in alcohomoring and	
	1	Does the management plan include zoning and	
	1	multiple uses of the site: YES NO	
		Door the man and also take the control of	
		Does the management plan take account of a	
		delimited buffer zone : YES /	
		NO	<i>'</i>
		Door the management along in all de manufacture	
		Does the management plan include regular	
		monitoring actions of the site:	
		/ NO	
			•
H		Implementation of the management plan:	-
ь	1	implementation of the management plant.	
	1	In accordance with specific legislation	
	1	in accordance with specific legislation	
	i	A gangy responsible for the implementation.	
	1	Agency responsible for the implementation:	
		Governmental institution // NGO	
1		NGO	
	i	Involvement of the local community in the	
		implementation of the management plan: YES / NO	
		NO	

E	Evaluation of the management plan: Periodicity: EVERY FIVE YEARS Defined indicators: ANIMAL PEPULATION / CAMPAY COVER Trained personnel: TRAINING OR GARNISED
	Revision scheduled every years
(provide a copy of the plan in annex)	Financial support for the implementation of the management plan: No financing foreseen
	Financing guaranteed National financing Bilateral financing
	Intergovernmental financing Obstacles to the implementation of the
	management plan: Lack of funds Lack of trained personnel Administrative or legislative problems
	Date of implementation of the present management plan: 1990
d Full name and address of the agend or person directly responsible for the property should also be provided.	Person responsible for the property: Name: BALGADIER E. ILANANGA Function: THE DIRECTOR Address: DEPARTMENT OF NATIONAL PARK AND WILSLIE Post code and city: P. D BOX CY140 CAUSEWAYS, HARRA Telephone: 263-04-792787-9 Fax: 263-04-792787 E-mail: nother adjuncts @ gta.gov.220
	If necessary, add additional Information on a blank paper

II.4.4. Capacities in human and financial resources at site level

-	The State Party should also provide	Human resources
	an estimate of the site's human	Level of staff:
	resources,	1. Management: 2 x WARDEN
		4 V Ranketh
		4 X RANGERS 1 X FRUIST OFFICER 1 X HOUSE KOUDER
		1 x House Korpen
1		2. Managerial staff / engineers (number, role):
		2 x ECOLOGISTS & RESEARCH 2 x Scouts & RESEARCH
		2 x Scouts & RESCHARCH
		3. Manpower (number, role):
		Guards × 9'3
		Trackers x 12
		Chauffeurs _
ĺ		Secretaries x 3
		Workers x 10
		Unskilled workers y 40
	•	
L		
Ь	and the firm till	Regular financial resources:
"	and the financial resources available and necessary for the management of	PARKS AND WILDLIFE CONSORVATION FUND
	the property,	Sources and level of financing:
		Income generated directly by management:
		Type-PAOK USED CHARGES / TARRIFFS
		Amount
		Utilisation—MAINTANANCE OF THE SITE
Ц		AND ADMINISTRATION COSTS
с	as well as an estimate of its personnel needs.	Personnel training needs
		Observed shortcomings: INTERPRETATION OF
		EXCLOSION CHANGES/ RESEARCH FINDIA IS AND EXCECTIVE SKILLS ON ANTI-POACH NE
		Personnel training needs: 1, Granus CVIII C and
		Personnel training needs: 1, FULTHER SKILLS ON
	1	Types of training desired: 31 Sustandable Utilisation
		TI LAW ENFORCEMINT
		5. DRUG LICENCING
		If necessary, add additional Information on a blank paper
		7. ADMINISTRATION
		· · · · · · · · · · · · · · · · · · ·

Convention concerning the Protection of the World Heritage List Periodic reporting of the African sites inscribed on the World Heritage List Periodic reporting of the African sites inscribed on the World Heritage List	
Convention control of the African sites inscribed	
Periodic representation and conservation	
disformation concerning protection time to the training in conservation	
Periodic reporting of the Periodic reporting of the II.4.5. Additional information concerning protection and conservation Sources of expertise for the training in conservation	
and management techniques.	
Sources of expertise for and management techniques: and management techniques: and management techniques: AND TECHNICLOST	
MIUSHAMBIEZ 21 MGAIST AND TECHNOLOGY	
NATIONAL UNIVERSITY OF SCIENCE AND TECHNO NATIONAL UNIVERSITY OF SCIENCE SOUTH AFFILM MUSE CAN WILDLIFE COT SOUTH AFFILM SOUTH AFFI CAN WILDLIFE SOUTH AFFILM Protection measures and means of implementation: Protection measures and means of implementation:	
ANTIONIA COLLEGE COLLEGE COLLIMNIEMENTATION:	
South April Can be and means of miple	
Protection measures DATHOUS THAT PROTECTIONS	
ATT THE LEGAL INSTAUR CADM THREAT TOTATE	
Protection measures and means of implementation. Protection measures and means of implementation. Protection measures and means of implementation. ANTI-POACHAGE PATRONS INTO THE ESTATE EFFECTIVE LEGAL INSTAUMENTS WITHIN THE ESTATE - MAINTAINING CIREBDEAKS FROM THREAT AREAS - CONTROLLED DEVELOPMENTS WITHIN THE - CONTROLLED DEVELOPMENTS WITHIN THE - CONTROLLED DEVELOPMENTS WARIOUS ACTIVITIES.	
THE DEVELOPMENT ACTIVITIES	
20 WING THE programmes:	Þ.
- MAINTAINING FILE DEPOSITS WITHING THE S. - CONTROLLED DEVELOPMENTS NAMIOUS ACTIVITIES. - CONTROLLED DEVELOPMENTS PRESSURE ON WOODLAND. - Existing local programmes: - Existing local programmes: - PLESEARCHES ON ELEPHANTS PRESSURE ON WOODLAND. - PLESEARCHES ON ELEPHANTS PRESSURE ON WOODLAND. - PLESEARCHES ON ENDER ALBIDA DUMBLING CAMOPIES - PLESEARCH ON FADHER ONE ALBIDA DUMBLING AS POR FAIR PLANS - PORCHAILT OPPOCHAILT OND EARLY BURNINGS AS POR FAIR PLANS	
RESEARCHES CADHERDIA ALBIDA DWINDLITH	
THE SEALCH US OF THE ALL ALL NINKS	
RESEARCHES and ELEPHANTS. PLESS DUMBLING CANOPIES RESEARCH ON FADHER ON ALBIDA DUMBLING CANOPIES - RESEARCH ON FADHER ON ALBIDA DUMBLING AS PER FLAMS - ANTI- PONCHALL AND EARLY BURNINGS AS PER FLAMS - DOING FREGUENDS AND EARLY BURNINGS AS PER FLAMS - DOING FREGUENDS AND EARLY BURNINGS AS PER FLAMS - POlicies and programmes for the safeguard of the Policies and programmes for the safeguard of the	
Donat Transfer for the safeguard	
Policies and programmentation):	
cita (status OI IIII) Com Managina	
Policies and programmes to a party site (status of implementation): Site (status of implementation): - ORAFT PARK PLANS FOR MANAGING THE PARKY - ORAFT PA	
- ORAFT PARK PLANS FOR LATIONS. - LEGISLATION AND REGULATIONS.	
Financing (origin, amount): PARKER AND WILDLIFE FUND PROVIDES FUNDITURES. PARKER AND WILDLIFE FUND CAPITAL EXPENDITURES.	
Financing (origin, amount): PARICE AND WILDLIFE FUND PROVIDES FUNDITURES. PARICE AND WILDLIFE FUND CAPITAL EXPENDITURES.	
PARICE AND WILL AND CAPITAL	
FOR RECULIE	
h Technical assistance: Technical assistance provided by the United	
Technical assistance provides	
Nations system. All	
hair a hair a sessistance nome	
Indicate technical assistance of the property has benefited, which the property has benefited, which the property has benefited, a. World Heritage Centre	
which the property has been a which the property has been a. World Heritage Centro either from a United Nations agency, or from bilateral cooperation. b. UNESCO International Campaign b. UNESCO International projects of the	
b. UNESCO International projects of the	
National and/Oi legistration	
UNDP or another agency	
d. Other assistance	
a. Other assess	
Technical assistance provided by bilateral co-	
Technical assistance provides 7	
operation	
Operation	
a blank paper	
If necessary, add additional Information on a blank paper	
If necessary, add addition	

II.4.6. Scientific, technical and educational activities

Ė	1.4.6. Scientific, technical and ed	incutional activities	
a	The State Party is also encouraged to provide information on scientific studies,	Scientific studies	
	statics,	Research facilities at the site:	
		Laboratories:	
		Housing for researchers:	
		Vehicles:	
		Scientific equipment:	
		Databases:	
		Herbaria:	
	•	Zoological collections:	
		Skilled personnel (technicians, laboratory staff)	
_		Research and development programmes	
ь	On research projects: for each research programme carried	1. MONITORING PRESENCE ON VEGE FROM HER BIVORES.	ETATIO
	out at the site, provide relevant	Name of the programme: 2. LION AND PREDATORSON RECONTINH	ts Res
	information.	Agency(ies) sponsoring the research:	
		Participation of national and/or foreign teams:	
		Objectives of the programme:	
		Progress status:	
		Results obtained:	
		Publications:	
		Human resources involved:	
=	Including computerised	New management techniques	
	management, as well as database	Availability of commuter a cuin mant	
-	management, access to the Internet or the creation of a Geographical	Availability of computer equipment:	
	Information System.	Type WINDOWS 198	10
		Capacity Year	
		rear	
		Possible access to the Internet: YES / NO	
		Operational access to the Internet: YES / NO	
		Use of the E-mail: YES / NO	
		Is there a Geographical Information System for the site:	

Periodic reporting of	intermediate and the second se
	planned? ~ But no electrisim in progress? operational?
d Educational activities, if there are educational programmes aimed at schools	Does the site receive schools' visits?
e Public information activities and awareness building in direct relati to the property: indicate how the property's World Heritage values transmitted to residents, visitors a the public.	are organised? No TICES, RADIO PROGRAM
	If necessary, add additional Information on a blank paper

II.4.7. Diverse elements

	T	
а	Other elements could be mentioned, for example:	World Heritage logo plaque WELICING ON 17.
	• whether the site has a plaque identifying it as a World Heritage site;	World Heritage property signs ON PLAN
	 whether special events and exhibitions are organised; what infrastructures, welcome 	Visitor information/interpretation centre ON PLAN FOR CONSTRUCTION UNDER TITE WORLD BANK PROJECT Site museum NA
	centre, site museum, special paths, guides, information material, etc. are available to the visitor;	Discovery paths SMALL TRACKS FOR GrAME DRINGS AND HUNTING MAINTAINED
	• the impact of World Heritage inscription on the programmes and activities.	Hotel infrastructure (lodging, restaurant) THE SIZE HASE LOAGES, CAMPING CROWNS Parking lot CAMPS
		Toilets
		First aid and rescue station - SMALL CLINIC AT MANA POOLS
		Ad hoc personnel and training received
		Information material: leaflets, books, slides, videos, CD-ROMs, etc. TO DENETER MERE OF THESE
		Open house days VIL
		Special events or exhibitions—NOT MRECTLY FOR THE SITE BUT NATIONAL PRIKES IN GENERAL AT AGRICULTURE SHOWS AND TENTION EXHIBITIONS Targeted communication actions: radio, typress.
	¥	Impact of inscription on visitor numbers - UNCON TANK
	V:	Other actions:
b	Based on a management study of the property, the State Party might wish to consider whether a significant revision of the legislative and administrative texts governing the	Is it necessary to revise the legislative texts governing the property: YES / NO
	property could be advisable.	Is it necessary to revise significantly the
		aunumustrative texts governing the property
		Administrative texts governing the property THERE IS NOTED TO ADD SOME CONTEXT - Page 16- RELATED TO WORLD HERITAGE MANAGEMENT
		RELATED TO WORLD HERITAGE MANAGEMENT

YES'/ NO

If necessary, add additional Information on a blank paper

Annexes: Attach legal texts, management plans, work plans, information documents, etc.

II.5. Factors affecting the property

II.5.1. Degree to which the property is threatened

	I_{I}	I.5.1.Degree to which the prope	rty is threatened
•	a	Please comment on the degree which the property is threatened to particular problems and risks. Factors that could be considered	Development pressures: Visual integrity:
		under this item are those that are listed in the nomination format, e.g. development pressures,	Waste and refuse—INCLERS OF VISITURE Constructions Buildings—MORE LONGES, TOLLETS, OFFICE Badly integrated infrastructures Illegal grazing and overgrazing Wood cutting and clearing THIS PARK
			Structural integrity:
		•	Roads - PLESSING FOR MORE ROADS TO Dams NEW DEVELOPMENTS LIKE LODGES. Mines DUE TO DAMINIAL FLOOR HATES LIMET RUBBLE Water pollution (type, source, scope, consequences, cost) OLS AND GRESTLINE FROM RIVER BOATEN Air pollution (type, source, scope,
			Consequences, cost) NIV Earth pollution (type, source, scope, consequences, cost) ATTEL FROM USED CONTINUES Disappearance or significant reduction of animal or Vegetal species. No EXCEPT. Con.
			Functional integrity:
			Conservation of biological productivity of Conservation of diversity Functioning of the cycles (water, etc.) I threatened CROCOBILE AND CARMINE BEE EATERS NESTS GETS BERMEN SUBMERCIED UNDER WATER WHEN THE ZAMBEZI RIVER IS ON FLOED.
b	en	vironmental pressures	Environmental pressures:
			Visual integrity: None
			Modifications of the relief Non Modification of the vegetal cover MAINEL

	Structural integrity: Disappearance of significant reduction of animal or vegetable species None other Than The Black Re Reintroduction of animal or vegetable species Rehabilitation of ecosystems or natural
•	environments No Suppression of introduced animal or vegetable species No Suppression of introduced animal or
c natural catastrophes and preparator planning,	Predictable climatic changes
	Earthquakes: NIL Land slides: NO MAJOR LANDSLIDES DIHER THAN COLLAPSING ZARABEZI RIVET BANKS WHEN WATER LEVELS ARE HAE. Avalanches:
	Floods: ON SERSONS OF HEAVY RAINS KARBA DAM WALL FLOODGATES GET OF DINAM AND FLOWS CAN BE WITHESSED DOWN ZAMBER FLOOD Droughts: LAST SIGNIFICANT MENGHY WAS IN 1991/2 SERSON Fires: NATURAL AND WILD FRES ARE MANLY CONFINED TO THE ESCARDMENT AREA
d visitor/tourism pressures,	Volcanoes: NIC Others: NIC Tourism and its consequences:

·	Yearly visitor statistics:		\
	Number of visitors per year ANDRAGE TO OPEN OF THE NOTION OF THE PROPERTY OF THE PROPERTY OF THE YEARS ANNUAL INCOME FROM TOURISM - PLUCTUMING	Benis	ISLADES ASLAZAUSIRA TANT FOR GJET
•	Accessibility of the site (from the capital?)-HA - Distance CHELLAND MATH BOOK - Paved roads TALLED CHRUNDU- HAR - Seasonal routes CHELLAND FORTH SANSON THOUSE - Airports LO CAL MAPORT IN KARIBA (JALIE CAMPS, MANA 10013, CHEWOLE NOW SADI HAVE INSEM STRETCH GRAVELED A Circulation within the site: for handicapped, NIL	ALE AT FOUT	READ . THE YORK
	for vehicles, _ Bush TRACKS according to the seasons DRY MENTHS (M	44J	OCTOBER)
	Pressures from tourism: Collecting of samples (fauna, flora, objects) / Damage (trampling) Misteria Contr Waste management (dustbins, WC) Food A Fires MI	ا احتوار	WIFICANT
	Tourist infrastructures: Picnic areas, Halts, Waste bins, Path markers etc		
	What is the tourist capacity of the site? -IF ALL FACILITIES MILE OCCUPIED FULL CAPACITY AT MANA POOLS, CAPACITY IS PARALLE WISH DER DAY -I Can one speak of sustainable tourism? HUM?IN		
	JES ALL ACTIVITIES ORE SUPPORTED BY ELOLOGICAL MONITORING AND RESEARCH		

e and the number of inhabitants. Relations with the neighbouring residence.	nts of the
i i i i i i i i i i i i i i i i i i i	
	EXCEPT WORKING 3 WITH ON
site Evaluation of the local population - المالة	to THE VACLE
Trumber of minastration in the	,
Number of intraditants in the	In the
1 66 (001)	
Evolution since the creation of	of the site In Carry Park
Geographical distribution of human had zones of illegal activity Compositions of Villages (location, population	
encampments (duration)	
Activities (cf. socio-économic	:
considerations)	
Cultural specificities of this population THE KOLE KOLE PEOPLE THATE SA LIVED IA THO LETTON FOR MAN	M CONTURLED
	- SUBSISTENCE ARAMININ
Main systems of production	(Chap And CAPITE PEACHUR)
Use of natural resources at the	ne World
Heritage site (activities of the	o natural
inhabitants with regard to the environment) of an original and the same and the sam	SHILLING DOLS
implications on sustainable	
development	_
Co-development contracts o	
agreements with the local po	opulation
Involvement of the local per	sonnel in
the site management	
Specific problems of refugees	
Causes N(_
Geographic origin	
Number of refugees	
Residence of the phenomenon	
Beginning of the phenomenon	
Consequences	
Solutions envisaged	
Insecurity situations and consequences	

Other factors affecting the property Vandalism, theft, looting Deforestation Poaching Illegal grazing Indicate steps taken to counteract these threats. 1. ANTI-POACHAGE PATROLS 2. CONSTRUCTED REFUSE COLLECTION BINS AT CAMPING/LOOGES SITES AND INCINOPARENS TO BURN IT. NON-BURNING AND NON-BIDDEGRADABLE COMPANENTS ARE USPOSED OF ALLERDINALLY.

3. MONICURING PROGRAMMES FOR APPRENTLY AFFECTED ANIMAL AND JECRETATION SPECIES,

4. MAINTAIN PREBLEMES. 5. MEETING WITH LOCALS

Describe the evolution of each of these factors since the inscription of the site on the WH List (increase, stability, decrease) POACHALY - DECRETSOD AS Compared WAT TO BEFORE 1990 Was the community involved in the nomination of the site to the World Heritage List: YES / NO L In what way?

If necessary, add additional Information on a blank paper

II.5.2. Prevention of threats and natural and human pressures

This item should provide up-to-date information on all factors which are likely to affect or threaten the property. It should also relate those threats to measures taken counteract them.

Methods of counteracting threats and pressures

Natural disasters: <

Earthquakes: / THE USTRICT CIVIL Land slides: PROTECTION UNIT TAKES

Avalanches: CONTROL OF TIMES

Floods:

Droughts: - ZAMBEZI RIVER PROVIDES
Fires: FIRETOR PERPENIALLS Fires: FIRECTUARS ARE MAINTAINED

Volcanoes: MI Others: NL

Industrial pollution: — NI L

Vandalism, theft, looting: WU

Industrial infrastructures:

Dams NOWE WITHIN THE SITE Mines ~ ~ ~ ~ Electrical network NIL Communications network (roads, railways, canals) CONTROL GATES ARE IN PLACE ALONG THE STATE ROAD THAT PASSUS Changes in land use

Pastoralism NIL

Poaching - DSPLOYNY SCOUTS

Urbanism ~ NO TOWNS PLANTING WITHIN THE SITE

Tourism - REGULATED NUMBER OF NISTORS AND VETHICLES THAT CAN BE ON SITH PER TIME, (PARK PLAN LIMITS)

An assessment should also be given if Evolution of the impact of these factors since the inscription of the site THERE ItA'S BEEN AN property is increasing or decreasing, INCALERSE OF SITES AND NUMBER OF INCALERSE OF SITES AND NUMBER OF INSCRIPTION VISITORS SINCE THE TIME OF INSCRIPTION AND THE ACCEPTED CAPACITY AND WHAT THESE INCREMENTS ARE WITHIN THE POULS PLANS OF THE LAND SCAPE ACTIONS taken to address them have been effectively taken or are

DENSCOPMENT OF THE PLANT.
- Page 23-

planned for the future.	
	Actions envisaged AND APPROVED COMING UP WITH AND APPROVED PLAN THAT WILL ACCOMMODATE ALL STAKE HOLDERS AND BE GUIDANCE TO ALL ACTIVITIES
	16

If necessary, add additional Information on a blank paper

II.6. Monitoring

Whereas item II.3 of the periodic assessment of the maintenance of the (give dates and results) provides World Heritage values of the detail the conditions of the property on the basis of key indicators for example): measuring its state of conservation.

If no indicators were identified at the time of inscription of the property on the World Heritage List, this should be done in the first periodic report. The preparation of a periodic report can also be an opportunity to evaluate the validity of earlier identified indicators and to revise them, if necessary.

```
Previous monitoring exercises
periodic or reactive monitoring)
```

property, this item analyses in more Is there regular monitoring of the site (yearly, for YES/NO

Periodic monitoring of flora resources: frequency - JEANLY methodology - USE SAMPLE PLOT ENCLOSURE inventory inventory estimates results

and/or

Periodic monitoring of the vegetable resources: frequency methodology

categories results

and/or

Periodic monitoring of the fauna resources:

frequency - JUALLY methodology-Population Surveys, REZD inventory Wontoling estimates results

and/or

Landscape monitoring: WIL frequency methodology

and/or

categories

		Monitoring of the constructions and buildings ENTRONMENTAL IMPACT ASSESSMENT DONE BEFORE ANY CONSTRUCTIONS Human resources allocated for this monitoring WO ECOLOGISTS WITH ASSISTANTS	
	•	Associated material means	
ъ	ensure that this information is as accurate and reliable as possible, for example by carrying out observations	conservation	
С	Indicate which partners if any are involved in monitoring and describe what improvement the State Party foresees or would consider desirable in improving the monitoring system.	Monitoring partners - NGOS -INDIPEDANT LESEACHERS AND STUDENTS Administrative provisions for organising the	
d	Committee and/or its Bureau may	Results of the previous monitoring exercises:	

If necessary, add additional Information on a blank paper

II.7. Conclusions and recommended actions

me them of the state of conservation report, but in particular as to whether significance of the site as a World Heritage property the World Heritage values of the property are maintimed, should be summarised and tubulated together with: Main conclusions regarding the state of the World Heritage values of the property (see items II.2 and II.3. above) Main conclusions regarding the state of the World Heritage values of the property (see items II.2 and III.3. Main conclusions concerning the Statement of authenticity / integrity of the property as a World Heritage property (see item II.3 above) Main conclusions concerning the Statement of authenticity / integrity of the property as a World Heritage property (see item II.3 above) Main conclusions concerning the Statement of authenticity / integrity of the property as a World Heritage property (see item II.3 above) Main conclusions concerning the management of the property (see item II.4 above) Main conclusions concerning the management of the property (see item II.4 above) Main conclusions concerning the management of the property (see item II.4 above) Main conclusions concerning the factors affecting the property (see item III.5 above) Main conclusions concerning the factors affecting the property (see item III.5 above) Main conclusions concerning the factors affecting the property (see item III.5 above) Main conclusions concerning the factors affecting the property (see item III.5 above) Main conclusions concerning the factors affecting the property (see item III.5 above) Main conclusions concerning the factors affecting the property (see item III.5 above) Main conclusions concerning the factors affecting the property (see item III.5 above) Proposed future action/actions Proposed future action/		a The main conclusions under each	of Main and lucin
summarised and tabulated together with: Main conclusions regarding the state of the World Heritage values of the property (see items II.2 and II.3. above) Main conclusions concerning the Statement of authenticity / integrity of the property as a World Heritage property (see item II.3 above) Main conclusions concerning the Statement of authenticity / integrity of the property as a World Heritage property (see item II.3 above) Main conclusions reparding the management and factors affecting the property (see item II.4 above) Main conclusions reparding the management and factors affecting the property (see item II.4 above) Main conclusions concerning the management of the property (see item II.4 above) Main conclusions concerning the management of the property (see item II.4 above) PLOQUETT MAINGAIN 363 OF THE STATE CONCERN PARK AND WILL SEE ACT CHAPTER 20 IVE STATE AND		report, but in particular as to wheth the World Heritage values of the	er significance of the site as a World Heritage property (see item II.2 above)
authenticity / integrity of the property as a World Heritage property (see item II.3 above) The Property Has Generally Main conclusions for the property of the property of the property of the property (see item II.4 above) Indicate the property (see item II.4 above) Property (see item II.4 and II.5 above) Property (see item II.4 above) Property (see item II.5 above) Main conclusions concerning the management of the property (see item II.5 above) Property (see item II.4 above) Property (see item II.5 above) Property (see item II.6 above) Property (see item II		summarised and tabulated togeth with: Main conclusions regarding the state of the World Heritage values of the property (see items II.2. and II.3.	THERE IS NOTED FOR MORE SEARCH
bid Main conclusions regarding the management and factors affecting the property (see Items II.4 and II.5. above) Main conclusions concerning the management of the property (see Items II.4 and II.5. above) Papperty Management and factors affecting the property (see item II.4 above) Papperty Management of the property (see item II.4 above) Papperty Management of the property (see item II.4 above) Paperty Management of the property of The STATES STATUTED JINSTRUMENTS 362 OF 1990 PARK ZUNATION Main conclusions concerning the factors affecting the property (see item II.5 above) Paperty Management of Paperty of The Control of the property of			authenticity / integrity of the property as a World
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- INCRETISE IN VISITOR NUMBERS - DEVELOPMENT PRESENCES - INCRETISE IN WILDLIFE POPULATION A GAMET THE VEGETATION RESOLUCIONS - LAND USE PLANS ON THE POPULATION OF THE LANDSCAPE C Proposed future action/actions Proposed future action(s): - STRENGTHED ANTI-POACHMUT TEAMS - MALLE A STAKE HOLDER OF IENTS FOR EFFECTIVE PAIK PLAN APPROVINGE WITH ISOLUCIONED IN 1990 CT.			the property (see item II.5 above) - KARIBA DAM LOVICS FLUCTUATIONS
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CONTINUE WITH SOLVED IS I MADE	c	i	Proposed future action(s): STRENGTIMES ANTI- PORCHAIR TISBAS
CLACK CP - A N A D			- MANTANINE THE RHING HABITAT CONTINUE WITH ENVIRONMENTIM IMPACT ASSESSMENT FOR ANY DEVELOPMENTS

	•	20.01
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		- PROGRESS WITH THE LION / PREDATORSHIP LESSTARCH
Resp d agen	consible implementing	Responsible implementing agency (ies): Agency: AND WILDLIFE MANAGEMENT Responsible: TIE DERECTOR
Prov	vide the necessary details for en	Person responsible: The Difference
		Address: P. 0 13 20 29 140 Telephone: 263 -04 - 792 787 - 9 Tolephone: 263 -04 - 792 782 7724914
	•	E-mail: national ports @ gta. gov. Zw
e Tim	neframe for implementation	Timetable for implementation
		FINE JORAS.
f Ne	eeds for international assistance	Needs for international assistance: YES / NO
	· .	Type of assistance desired: TECHNICAL EXPERTS TO ASSIST DO THE MANA POOLS ISAPI CHEWOLE PARK PLANS FUNDING FOR THE EXCELS FAND ALGSTACH WORL TRANSMIT OF STAFF ON SITE ON INFORMATION TECHNOLOGY TRANSMIT OF STAFF ON MANAGEMENT AND ADMIS TRATE
Pare si	the State Party is also requested adicate what experience the Starty has obtained which could elevant to others dealing wimilar problems or issues. Ple rovide names of organisations pecialists who could be contacted his purpose.	Resource persons or organisations who could be involved in monitoring: 1. Name: Address:
h A	Address where the inventory, ecords and archives are kept.	Agency: Person responsible: Address:

II.8. Documentation enclosed

Maps and plans of the site layout

Site map (zoning)

Illustrations of the state of conservation of the site (photographs, slides and, if available, film/videos):

General view (overall view of the site)

Details of the important aspects (landscapes, animal and vegetable species, installations)

Photos illustrating the physical state of conservation of the site

Photos illustrating the main threats to the site and its surroundings

Copies of the management plans of the site and extracts of other plans relating to the site

Indicative bibliography

4 PUBLIC USE OF MANA POOLS NATIONAL PARK

4.1ZONING OF MANA POOLS NATIONAL PARK

4.1.1 Special Conservation Areas

No archaeological sites have been identified due to a lack of a proper survey.

SPRING SPECIAL CONSERVATION AREAS		
Area	Chitake, Kaminga and Kasowe Springs.	
Purpose	To protect sites that have unique, unusual or important biotic or abiotic features.	
Size	200m radius of the source of the spring.	
Management Strategy	Protect and carry out restorative work if needed to perpetuate the inherent character of the spring.	
Tourist Activities	Low density, non-consumptive.	
Entry Restrictions	Limited to entry on foot during daylight hours only.	
Permitted Development	Animal viewing hides and footpaths.	

4.1.2 Wilderness Areas

RUKOMECHI RIVER WILDERNESS AREAS		
Purpose	To conserve the riverine vegetation along the Rukomechi River and to provide for wilderness experience and scientific study.	
Size	28km²	
Management Strategy	Manage to preserve wilderness qualities.	
Tourist Activities	Low density wilderness experience.	
Entry Restrictions	No vehicle access except for staff on essential duties. Limited to entry on foot and all equipment to be carried in and out. All litter to be carried out.	
Permitted Development	Footpaths, animal viewing hides, non-permanent camp sites, dry season management tracks.	

Boundary: Starting from the river road crossing going south until the security road crossing and for 365m on each side of the Rukomechi River.

The southern end of the wilderness area has the main road passing through it and there is a hand operated borehole pump on the banks of the Rukomechi River.

Purpose	RPMENT WILDERNESS AREA
	10 provide large tracte of salation
Size	for wilderness experience and scientific study.
Management Strategy	
Tourist Activities	Manage to preserve wilderness qualities.
Entra D	Low density wilderness experience.
Entry Restrictions	No vehicle access except for staff on essential duties. Limited to entry on foot and all equipment and supplies to be carried in and our All litter to be carried out.
Permitted Development	Footpaths, animal viewing hides, non-permanent camp sites, dry season management tracks.

Boundary: Starting from the point where the 600m contour crosses the Rukomechi River and following the 600m contour eastwards until it crosses the Chitake River, then south along that river to the park boundary and west along the park boundary until the Rukomechi river, then north along that river to the starting point.

4.1.3 Wild Areas

Apart from the special conservation areas, wilderness areas and the development areas the rest of the park has been divided into four wild areas, which are distinguished on the basis of tourism and their differing ecology.

The Nyamatusi Wild Area represents the major habitat types of the park and has minimal development for tourists. It has a four wheel drive track cutting through it, which should be maintained as such and has limited access in order to give tourists the wilderness type experience. The old bridge on the Mbera River should be broken up and removed and all old roads etc. must be ripped so total reclamation is possible.

Entry is restricted to 4 wheel drive during daylight hours only unless accompanied by a professional or parks guide. No off road driving is permitted and no motorcycles or vehicles of gross mass greater than three tons. The road maybe closed during the wet season. Only one long haul canoe party, one short haul canoe party and one hiking party are permitted to camp overnight at their designated campsites. Two tourist vehicles (4WD) are permitted per day for game drives and/or walking and must get a permit from Nyamepi before entering the area.

NYAMATUSI WILD AREA		
Purpose	To provide tracts of relatively undisturbed but accessible land for the enjoyment of visitors and scientific study.	
Size	±150km²	
Management Strategy	Manage as wilderness area but with minor visitor use in order to preserve wilderness qualities	
Tourist Activities	Game viewing by vehicle or on foot.	
Entry Restrictions	Vehicles restricted to roads. One long haul canoe party, one short haul canoe party, one hiking party and two tourist vehicles (4WD only).	
Permitted Development	Trails, roads, footpaths, animal viewing hides, interpretive displays, limited temporary tourist camps.	

Boundary: Eastwards from the mouth of the Chiruwe River along the Zambezi until the mouth of the Sapi River, then south until the Middle jesse road crossing on the Sapi River, then west along that road until the crossing on the Chiruwe River, then north along that river until the starting point.

NORTHERN WILD AREA		
Purpose	To provide tracts of relatively undisturbed but accessible land for enjoyment of visitors and scientific study.	
Size	±325km²	
Management Strategy	Manage as main locations of visitor use, keeping area as little disturbed as possible.	
Tourist Activities	Game viewing by vehicle or on foot.	
Entry Restrictions	Limited to park limit of 50 vehicles at a time.	
Permitted Development	Trails, roads, footpaths, animal viewing hides, interpretive displays, limited tourist camps.	

Boundary: Starting at the mouth of the Chiruwe River on the Zambezi River heading south until the middle jesse road then west along the middle jesse road until it meets the main access road then south along this road until the crossing with the Fourways road then west along this road to the Dandawa road and west along this road to the boundary with the Rukomechi River Wilderness Area and then north along this boundary until river the road crossing at the Rukomechi River, then north along the park boundary to the Zambezi River, then east to the starting point along the Zambezi River.

This is the wild area with the majority of use for tourists and includes the exclusive camps along the Zambezi and all the tourist roads. It incorporates the majority of the floodplain, but also includes mopane and jesse. There are about 75km of old roads and tracks that need to be upgraded to at least 4WD status and re-aligned where they present an erosion hazard.

Game viewing hides may be constructed at water points or other loci where game concentrate. Underground hides disguised as anthills may be placed in

open areas on the floodplain provided that access is concealed by existing vegetation. The borehole at Muvundura Pan should be refurbished, if for nothing else but to supply patrols in the area with clean fresh water.

Entry is restricted to 50 vehicles for this area, no driving off the roads, no motorcycles and no vehicles of gross mass greater than three tons on any road other than the access road. Some specified roads may be closed during the wet season and subject to the normal criteria laid down by the Department.

CHIRUWE WILD AREA		
Purpose	To provide tracts of relatively undisturbed but accessible land for enjoyment of visitors and scientific study.	
Size	±775km²	
Management Strategy	Manage as main locations of visitor use, keeping area as little disturbed as possible.	
Tourist Activities	Game viewing by vehicle or on foot.	
Entry Restrictions	Limited to park limit of 50 vehicles at a time.	
Permitted Development	Trails, roads, footpaths, animal viewing hides, interpretive displays, limited tourist camps.	

Boundary: To the north it is bounded by the Nyamatusi Wild area and in the east by the park boundary, in the south by the security road, then up the boundary with the Rukomechi River Wilderness Area until the Dandawa road to the Fourways road then down the access road to the jesse road and east along this road to the start of the Nyamatusi Wild Area.

This wild area has no roads, no development and consists mainly of mopane. It has very low densities of game in the dry season.

SOUTHERN WILD AREA		
Purpose	To provide tracts of relatively undisturbed but accessible land for enjoyment of visitors and scientific study.	
Size	±450km²	
Management Strategy	Manage as main locations of visitor use, keeping area as little disturbed as possible.	
Tourist Activities	Game viewing by vehicle or on foot.	
Entry Restrictions	Limited to park limit of 50 vehicles at a time.	
Permitted Development	Trails, roads, footpaths, animal viewing hides, interpretive displays, limited tourist camps.	

Boundary: The northern boundary is the security road, the eastern boundary is the park boundary, the southern boundary is the park boundary until the Chitake river which it follows until the 600m contour then follows that west until the Rukomechi River which it follows south until the park boundary, then follows the park boundary around to the boundary with the Rukomechi River Wilderness area and then south to the security road.

This area includes most of the escarpment area and all the springs at the base of the escarpment. There is one bush camp for tourists at the Chitake spring and there are two potential sites at the Kaminga spring and Kasowe spring but should be sited more than 200m from the sources of these springs. Other possible bush or exclusive camps are up stream from Nyakasikana gate, up stream of Rukomechi Research Station and at Masikote camp. It is the other main area for tourists as there are game concentrations along the escarpment in the dry season.

4.1.4 Development Areas

No further development should occur at Nyamepi but a new management station should be built at Nyakasikana gate. When Tsetse Department vacate their accommodation at Rukomechi Research Station this can be converted in to a sub-station. Office space at Nyamepi is needed. Officer accommodation at Nyamepi needs improving. The abandoned house at Nyakasikana gate is to be dismantled. Other government departments should be encouraged to leave and their facilities taken over, eg Police, Roads and Tsetse

DEVELOPMENT AREAS			
Purpose	To provide sites for staff accommodation and work and larger tourist complexes. Should be limited to the minimum required to satisfy the immediate		
Size	extended with out Director's approval. New development should be restricted to no more than 1km².		
Management Strategy	Manage to satisfy staff and tourist requirements without major impacts on surrounding areas.		
Tourist Activities	Primarily an accommodation area.		
Entry Restrictions	Subject to the criteria laid down by the Department.		
Permitted Development	Subject only to design criteria laid down by the Planning Committee and the approval of the overall park plan.		

4.2IMPLEMENTATION OF TOURISM

4.2.1 Staff Requirements

In addition to other staff requirements as indicated above the following staff is also needed for tourism.

Tourist Officer - 1
Reception Scouts - 4
Wilderness Trail Scouts - 2
Walking Trail Scouts - 2

CHECKLIST OF PLANTS COLLECTED IN

MANA POOLS NATIONAL PARK

SAPI SAFARI AREA

AND

CHEWORE SAFARI AREA

Prepared By P. R. Guy

EQUISETACEAE

H Equisetum ramosissimum

MARSILEACEAE

H Marsilea macrocarpa

SALVINIACEAE

AH Salvinia auriculata Kariba weed

AZOLLACEAE

AH Azolla nilotica
AH Adiantaceae
AH Thelypteridaceae

Alloteropsis cimicina

Cymbosetaria sagittifolia

GRAMINEAE

G	Andropogon gayanus	Blue grass
G	Aristida adscensionis	Annual bristle grass
G	A.hordeacea	, anidai briotio grado
G	A.meridinonalis	
G	A.mollisima	
G	A.pilgeri	
G	A.rhinochloa	Large-seeded bristle grass
G	A.scabrivalvis var contracta	go cocaca 2.110110 graco,
G	A.stipitata var greaciliflora	
G	A.vestita	
G	Brachiaria deflexa	Annual brachiaria
G	<u>B.xantholeuca</u>	
G	Chloris gayana	Rhodes grass
G	<u>C.virgata</u>	Old-lands grass
G	Cleistachne sorghoides	3
G,	Cymbopogon excavatus	Turpentine grass
\sim	Orangle a set a state of the College	· • • • • •

•	a la	Couch grass
G	Cynodon dactylon	Couch grass Giant crows foot
G	<u>Dactylotenium giganteum</u>	Giant crows root
G	Danthoniopsis intermedia	
G	<u>D.pruniosa</u>	
G	<u>Dichanthium annulatum</u>	
G	<u>Digitaria ciliaris</u>	
G	<u>D.debilis</u>	Mania fingerares
G	<u>D.milianjiana</u>	Mla nje finger grass
G	<u>D.nemoralis</u>	
G	<u>D.perrottetii</u>	
G	<u>D.setivalva</u>	D. I have a blue group
G	<u>Diheteropogon ampectens</u>	Broad-leaved blue grass
G	<u>Dinebra retroflexa</u>	
G	Echinochloa colonum	Jungle rice grass
G	E.stagnina	
G	Eleusine indica	Rapoko grass
G	Elytrophorus globularis	
G	Enneapogon scoparius	
G	Entropogon macrostachyus	
G	Eragrostis aethiopica	
G	E.aspera	Rough lovegrass
G	<u>E.cilianensis</u>	
G	E.ciliaris	
G	E.cylindriflora	
Ğ	E.gangetica	
Ğ	E.habrantha	
Ğ	E.horizontalis	
Ğ	E.namaquensis	
Ğ	E.nindensis	
Ğ	<u>E.patens</u>	
Ğ	E.pilosa	
Ğ	E.porosa	
Ğ	E.rigidior	Curly-leaved lovegrass
Ğ	E.rogersii	
Ğ	E.rotifer	
Ğ	E.sarmentosa	
Ğ	E.tremula	
Ğ	E.viscosa	Sticky lovegrass
Ğ	Eriochloa maclounii	
Ğ	E. meyerians	
Ğ	Heteropogon contortus	Spear grass
Ğ	Hyparrhenia filipendula	Thatching grass
Ğ	H.finitima	
Ğ	H.rufa	Jaragua grass
Ğ	H.variablis	
Ğ	Leptocarydion vulpiastrum	Spade grass
Ğ	Leptochloa panicea	
Ğ	L.uniflora	
Ğ	<u>Loudetia flavida</u>	Pointed russet grass
Ğ	Oplismenus burmanni	

G	Oryza longistaminata	
G	<u>Oxytenathera</u>	
G	Panicum astrosangineum	- <i>a</i>
G	<u>P.coloratum</u> v. <u>makarikariense</u>	Buffalo grass
G	P.heterostachyum	
G	<u>P.laevifolium</u>	
G	<u>P.manicatum</u>	
G	P.maximum	Guinea grass
G	P.repens	
G	P.subalbidum	
G	Paspalum orbiculare	Laura mativa naanalum
G	P.polystachyum	Large native paspalum
G	Pennisetum polystachion	Flankant week
G	P.purpureum	Elephant grass
G	Perotis patens	
G	Phragmites mauritianus	
G	Phyllorachios sagittata	A mount announced
G	<u>Pogonarthria fleckii</u>	Annual cross grass
G	P.squarrosa	Cross grass
G	Rhynchelytrum mintiflorum	
	var. <u>melindoides</u>	Notel and tow
G	R.repens	Natal red top
G	R.villosum	Charava areas
G	Rottboellia exaltata	Shamva grass
G	Sacciolepis africana	
G	<u>S.interapta</u>	
G	Schizachyrium exile	
G	<u>S.inclusum</u>	Cand quial
G	Schmidtia pappophoroides	Sand-quick
G	Setaria pallidifusca	Annual Timothy grass
G	S.palustris	
G	S.sphacelata	Black Sudan grass
G	Sorghum versicolor	DIACK Sudail glass
G	S.verticilliflorum	
G	Sporobolus consimilis	
G	S.cordofanus	
G	<u>S.festivus</u>	
G	S.fimbriatus	
G	S.ioclados	Famine grass
G	S.panicoides	Cats tail grass
G	S.pyramidalis	Gilston grass
G	Stereochlaena cameronii	Red grass
G	Themeda triandra	Carrot-seed grass
G	Tragus berteronianus	Blue-seed grass
G	Tricholaena monachne	Cheveron grass
G	Tripogon minimus	Gonya grass
G	Urochloa mossambicensis	Conya graco
G	<u>U.pullulans</u>	
G G	<u>U.trichopus</u> <u>Vetiveria nigritana</u>	Adrenalin grass
G	<u>veliveria riigittatta</u>	, ta. 3 (a)

CYPERACEAE

- Se <u>Bulbostylios</u> sp.
- se Cyperus amabalis
- Se <u>C.alternifolius flabelliformis</u>
- Se <u>C.auriculatus</u>
- Se <u>C. difformis</u>
- Se <u>C.digitatus auricomis</u>
- Se C.distans
- Se C.imbricatus
- Se C.kirkii
- Se C.longus
- Se C.nudicaulis
- Se <u>C.pseudokyllingoides</u>
- Se C.pygmaeus
- Se C.rotundus
- Se <u>C.tenuispica</u>
- Se <u>C.zollingeri</u>
- Se Fimbristylis bisumbellata
- Se F.exilis
- Se F.ferruginea
- Se F.hispidula
- Se <u>F.squarrosa</u>
- Se <u>F.</u>sp.1
- Se <u>F.</u>sp.2
- Se Fuirena ciliaris
- Se F.pachyrhiza
- Se <u>F.stricta</u>
- Se Kyllinga alba
- Se Lipocarpha chinensis
- Se <u>Mariscus aristatus</u>
- Se Pycreus chrysanthus
- Se <u>P.flavescens</u>
- Se P.mundii
- Se P.pelophilus
- Se P.polystachyos
- Se P.tremulus
- Se P.sp.
- Se Scirpus articultus
- Se S.cubensis
- Se S.praelongatus
- Se Scleria foliosa
- Se S.pergracilis
- Se Juncellus laevigatus

ACANTHACEAE

- H Asystasia gangetica
- H Barleria ameliae
- H B.kirkii

	B.lugardii B.senensis Blepharis caloneura B.involucrata B.leendertziae B.madaraspatensis B.pungens Brillantasia pubescens Crabbea velutina Crossandra spinescens Dicliptera melleri D.verticilliata Disperma crenatum D.quadrangulare Ecbolium hamatum Elytraria acaulis Hygrophila abyssinica H.aueiculata H.spiciformis Hypoestes verticilliaris Justicia betonica J.betonicoides J.glabra J.heterocarpa J.kirkiana J.matammensis J.strictata Lepidogathis sariosa Mellera nyassana Monechma monechmoides Nelsonia canescens Neuracanthus africanus Peristrophe bicalyculata Rhinacanthus gracilis
1 1	Ruellia prostrata
1	Ruspolia decurrens
	•

AIZOACEAE

Н Н

Н	Gisekia africana
Н	Glinus lotoides
Н	G.oppositifolia
Н	Mollugo cerviana
Н	M.nudicaulis
Н	Securium accentici

Sesuvium sessuvioides S.nyasiaum

Н

ALISOMATACEAE

H <u>Linophyton obtusifolium</u>

•

, VW	ARANTHACEAE	
Н	Achyranthes aquatica	
Н	A.aspera	
Н	Aerva leucura	
Н	Alternanthera rodiflora	
Н	A.pungens	
Н	A.sessilis	
Н	Amaranthus graecizans	
Н	A.hybrdus	
Н	A.hybridus incurvatus	
Н	A.spinosus	
Н	A.thunbergii	
Н	Celosia trigyna	
Н	Centemopsis gracilenta	
Н	Cythula orthodonta	
Н	Nothosaerva brachiata	
Н	Psilotrchum scleranthum	
Н	Pupulia lappacea	
ANA	CARDIACEAE	
Т	Lannea stuhlmannii	
	var. <u>tomentosa</u>	False marula
T	Ozoroa reticulata	Tarberry
S/T	Rhus queinzii var.spinescens	Spiny rhus
T	Sclerocarya caffra	Marula
ANN	ONACEAE	
С	Artabotrys brachypetalus	Durale healt have
S/T	Cleistochlamys kirkii	Purple hook-berry Purple cluster-pear
S	Friesodielsia obovata	Northern dwaba-berry
	(Popowia obovata)	Northern dwaba-berry
APO	CYNACEAE	
Т	Diplorhynchos condylocarpon	Wild rubber tree
Ť	Holarrhena pubescens	Jasmine tree
	(<u>H.febrifuga</u>)	2300 1100
С	Stophanthus courmontii	
С	S.kombe	
С	S.petersiana	
APA	CEAE	

ARACEAE

H Amorphphallus sp.AH Pistia stratiotesH Stylochiton puberulus

Water cabbage, lettuce

ARISTOLOCHLACEAE С Aristolochia petersiana Wild dutchman's pipe **ASCLEPIADACEAE** C Ceropegia purpurescens C Crytolepis obtusa С Dregea macrantha С Fockea multiflora Taccazea apiculata **BALANITACEAE** Balanites aegyptiaca Simple-thorned torchwood B.maughamii Y-thorned torchwood **BIGNONIACEAE** Т Kigelia africana Sausage tree Т Markhamia acuminata Bean tree Т Stereospernum kunthianum Pink jacaranda **BOMBACACEAE** T Adinsonia digitata Baobab **BORAGINACEAE** Н Coldenia procumbens Т Cordia grandicalyx Round-leaved cordia Т C.goetzei Blue-barked cordia Т C.pilosissima Wooly cordia S Ehretia amoena Stamperwood (E.caerulea) S E.sp. Н Heliotropium indicum Н H.ovalifolium H.strigosum Н Н H.subulatum Η <u>H.supinum</u> Н Trichodema zeylanicum BURSERACEAE S/T Commiphora africana Poison-grub commiphora Т C.caerulea Blue-bark commiphora Т C.karibensis Angular-stemmed commiphora

Soft-leaved commiphora

Pepper-leaved commiphora

Т

Т

C.mollis

C.mossambicensis

T T	C.pyracanthoides C.ugogensis	Common commiphora River commiphora
CAF	PARIDACEAE	
T T	Boscia albitrunca B.angustifolia var. corymbosa B.matabelenois	Sheperd's tree Rough-leaved boscia
T T S S/C S/C H H	B.mossambicensis B.salicifolia Cabada kirkii	Broad-leaved boscia Willow-leaved boscia Large-flowered cabada Wooly caper-bush
H S/T S S/C S/T S S/T	C.monophylla C.gynandra var. gynandra Maerua angolensis M.edulis M.juncea M.kirkii M.parvifolia M.prittwitzii	Bead-bean Rat smell bush Large-flowered maerua Wooly-fruited maerua
CAR	YOPHYLLACEAE	
H H	Polycarpaea corymbosa Polycarpon prostratum	
CEL	ASTRACEAE	
T T C S/C S/C S/C	Cassine matabelica C.schlechterana Hippocratea africana var.richardsiana H.crenata H.indica H.longipetiolata	Condiment cassine Large-leaved cassine
C S	H.parviflora Hippocratea sp.	Smooth-leaved paddle-pod
S/T S/T	Maytenus putterlickioides M.senegalensis	Large-flowered maytenus Confetti tree
CHE	NOPODIACEAE	

Chenopodium ambrosoides

COMBRETACEAE

T T T S T T T T T	Combretum albopunctatum C.apiculatum C.celastroides C.collinum C.eleagnoides C.fragrans C.hereroense C.imberbe C.kirkii	Silver-dot combretum Red bushwillow Jesse-bush combretum Variable combretum Peach-leaved combretum Four-leaved combretum Mouse-eared combretum Leadwood
Ċ	C.microphyllum	
S/C C S T T T T	C.mossambicense C.obovatum C.padoides C.zeyheri Meiostemon tatandrus australis Pteleopsis anisoptera P.myrtifolia P. sp.	Shaving-brush combretum Spiny combretum Thicket combretum Large-fruited combretum False combretum Four-winged pteleopsis Two-winged pteleopsis
T T T T T T	Terminalia brachystemma T.mollis T.prunioides T.sambesica T.sericea T.stenostachya T.stuhlmannii	Kalahari-sand terminalia Large-leaved terminalia Purple-pod terminalia River terminalia Silver terminalia Rossette-leaved terminalia Zig-zag terminalia

COMMELINACEAE

H Aneilema johnstonii
H A.pedunculosum
H Commelina bengalensis
H C.bracteosa
H C.diffusa
H C.forskalei
H C.sublobata
H C.zambesiaca
H Cyanotis foecunda

COMPOSITAE

Н	<u>Ageratum conyzoides</u>
Н	Athroisma stuhlmannii
Н	Bidens biternata
Н	B.pilosa
Н	B.schimperi
Н	Blainvillea gayna
Н	Blumea aurita
Ή	B.mollia
Н	Calostephane divarcata
Н	Coryza floribunda

Yellow-flowered blackjack Blackjack

Н	<u>Crasscephalum rubens</u>	
Н	Eclipta prostrata	
Н	Enydra fluctans	
Н	Epaltes alata	
Н	Erlangea sp.	
Н	Geigera africana filifolia	
Н	Gnaphalium indicum	
Н	Grangea maderaspatana	
Н	Hypercophyllum compositarum	
Н	Melanthera scandens	
C	Mikania cordata	
H	Nicolasia felicioides	
H	Nidorella resedifolia	
H	Pleiotaxis eximia	
S/H	Pluchea dioscordis	
Н	Sclerocerpus africanus	
H	Sphaeranthus angolensis	Vlei spice
H	Tridex procumbens	7.0. op.00
H	Vernonia adoensis	
Н	V.cinerea	
Н	V.colorata	
Н	V.glabra	
H	V.petersii	•
Н	V.stenolepis	
Н	Vicoa leptoclada	
11	VICCA ICPICCIAGA	
CON	NARACEAE	
CON S	NARACEAE Brysocarpus orientalis	Short-pod
S		Short-pod
S CON	Brysocarpus orientalis NVOLVULACEA	Short-pod
S CON	Brysocarpus orientalis NVOLVULACEA Hewittea sublobata	Short-pod
S CON C H	Brysocarpus orientalis NVOLVULACEA Hewittea sublobata Ipomoea aquatica	Short-pod
S CON C H C	Brysocarpus orientalis NVOLVULACEA Hewittea sublobata Ipomoea aquatica I.archnosperma	Short-pod
S CON C H C	Brysocarpus orientalis NVOLVULACEA Hewittea sublobata Ipomoea aquatica I.archnosperma I.copitca	Short-pod
S CON C H C	Brysocarpus orientalis NVOLVULACEA Hewittea sublobata Ipomoea aquatica I.archnosperma I.copitca I.eriocarpa	Short-pod
S CON C H C	Brysocarpus orientalis NVOLVULACEA Hewittea sublobata Ipomoea aquatica I.archnosperma I.copitca I.eriocarpa I.leucanthemum	Short-pod
S CON C H C	Brysocarpus orientalis NVOLVULACEA Hewittea sublobata Ipomoea aquatica I.archnosperma I.copitca I.eriocarpa I.leucanthemum I.mauritiana	Short-pod
S CON C H C	Brysocarpus orientalis NVOLVULACEA Hewittea sublobata Ipomoea aquatica I.archnosperma I.copitca I.eriocarpa I.leucanthemum I.mauritiana I.nil	Short-pod
S CON C H C	Brysocarpus orientalis NVOLVULACEA Hewittea sublobata Ipomoea aquatica I.archnosperma I.copitca I.eriocarpa I.leucanthemum I.mauritiana I.nil I.pestigridis	Short-pod
S CON C H C	Brysocarpus orientalis NVOLVULACEA Hewittea sublobata Ipomoea aquatica I.archnosperma I.copitca I.eriocarpa I.leucanthemum I.mauritiana I.nil I.pestigridis I.plebia africana	Short-pod
S CON C H C	Brysocarpus orientalis NVOLVULACEA Hewittea sublobata Ipomoea aquatica I.archnosperma I.copitca I.eriocarpa I.leucanthemum I.mauritiana I.nil I.pestigridis I.plebia africana I.shirambensis	Short-pod
S CON C H C	Brysocarpus orientalis NVOLVULACEA Hewittea sublobata Ipomoea aquatica I.archnosperma I.copitca I.eriocarpa I.leucanthemum I.mauritiana I.nil I.pestigridis I.plebia africana I.shirambensis I.shupangensis	Short-pod
S CON C H C	Brysocarpus orientalis NVOLVULACEA Hewittea sublobata Ipomoea aquatica I.archnosperma I.copitca I.eriocarpa I.leucanthemum I.mauritiana I.nil I.pestigridis I.plebia africana I.shirambensis I.shupangensis I.simonsiana	Short-pod
S CON C H C	Brysocarpus orientalis NVOLVULACEA Hewittea sublobata Ipomoea aquatica I.archnosperma I.copitca I.eriocarpa I.leucanthemum I.mauritiana I.nil I.pestigridis I.plebia africana I.shirambensis I.shupangensis I.simonsiana I.sinensis sinensis	Short-pod
S CON C H C	Brysocarpus orientalis NVOLVULACEA Hewittea sublobata Ipomoea aquatica I.archnosperma I.copitca I.eriocarpa I.leucanthemum I.mauritiana I.nil I.pestigridis I.plebia africana I.shirambensis I.shupangensis I.simonsiana I.sinensis sinensis I.tenuipes	Short-pod
8 C OHOOOOOOOOOOO	Brysocarpus orientalis NVOLVULACEA Hewittea sublobata Ipomoea aquatica I.archnosperma I.copitca I.eriocarpa I.leucanthemum I.mauritiana I.nil I.pestigridis I.plebia africana I.shirambensis I.shupangensis I.simonsiana I.sinensis sinensis I.tenuipes I.welwitschii	Short-pod
S CON C H C	Brysocarpus orientalis NVOLVULACEA Hewittea sublobata Ipomoea aquatica I.archnosperma I.copitca I.eriocarpa I.leucanthemum I.mauritiana I.nil I.pestigridis I.plebia africana I.shirambensis I.shupangensis I.simonsiana I.sinensis sinensis I.tenuipes	Short-pod

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C M.pinnata C M.pterygocaulus C M.tridentata augustifolia **CRASSULACEAE** Н Kalanchoe lanceolota **CRUCIFERAE** Н Rorippa crypantha Н R.madagascariensis **CUCURBITACEAE** C Ctenolepis cerasiformis С Cucumella sp. С Cucumis anguira С C.metuliferus C Kedrostis foetidissima С K.hertella С Lageneria shaerica С Luffa cylindrica С Momordica cardiorpermoides С M.charantica С M.corymbifera С M.kirkii С Mukia maderaspatana С Zehneria scabra Z.thwaitesii DIOSCOREACEAE С Dioscorea bulbifera С D.dumetorum С D.hirtiflora **DIPTEROCARPACEAE** Т Monotes katangensis Red-fruited montes **EBENACEAE** Т Diospyros kirkii Pink diospyros T D.mespiliformis Ebony diospyros Т **D.**quiloensis Crocodile-bark diospyros T D.senensis Peeling-bark or acorn diospyros

Rigid-star berry

Diamond-leaved euclea

Т

Т

D.squarrosa

Euclea divinorum

