

C.5. North Luangwa Conservation Programme, Zambia

Project Area:

North Luangwa Valley, Zambia. NL National Park and Game Management Areas administered by Zambian Wildlife Authority (ZAWA)

Status:

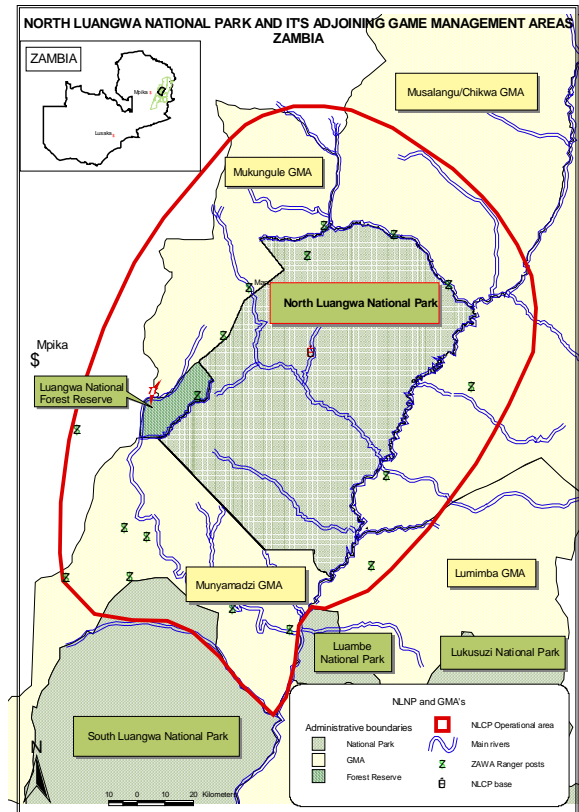
National Park, IUCN Category II, established 1971. Game Management Areas: Settlements and hunting permitted.

Geographical Location: North-east Zambia, 11°25' S to 12° 20'S and 31°45'E to 32°40'E

Size: 15,000km² project area, NLNP 4,640 km²

Description:

The North Luangwa valley is similar in origin but older than the east African rift systems. Woodlands (Moist miombo, *Combertum-Terminalia* and mopane woodlands and wooded grassland dominate with two major rivers bordering the east and northern park boundaries. The Muchinga escarpment in the west rises to 1372m *asl*, some 700m above the wide valley floor of 6-700m.



Project Partners:

Zambian Wildlife Authority, GMA Community Resource Boards

Justification in terms of FZS Strategy:

A true, essentially pristine, wilderness area, with a functioning ecosystem. No other NGO involvement in the area.

FZS Priority biomes

Savanna



Globally threatened and rare species

Black rhino, African wild dog, Cookson's wildebeest, Thorneycroft's giraffe, African elephant

International recognition

Global 200 (WWF, Zambeian woodlands and savannas)

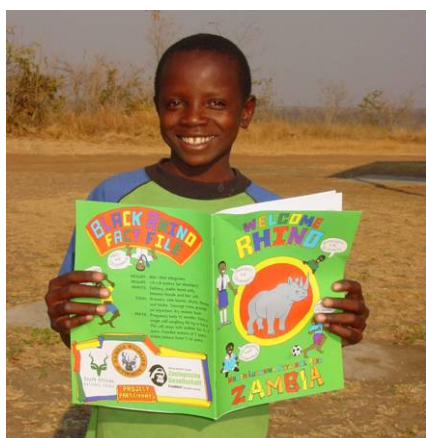
Important Bird Area (Birdlife international)

Centre of global plant diversity (IUCN/WWF)

Last of the wild (WCS)

History of Project:

FZS has supported conservation activities in North Luangwa since 1986. Although Zambia is relatively politically stable, the country is impoverished with few government funds available for the wildlife sector for many decades. NLCP has been supporting the Zambian Wildlife authority, focusing initially on anti-poaching, park operations, animal population census work and infrastructure development, but in recent years in has expanded the focus to include ranger training, management planning, implementing a geographical information system of management use and, significantly, conservation education. Black rhinos were extirpated by poaching in the 1980s both in Luangwa and Zambia but the programme has led and coordinated the initiative to reintroduce the species. In 2003, the project reintroduced 5 rhinos to North Luangwa/Zambia and the first birth was recorded in 2005.



Additional Funding:

- US Fish and Wildlife Service: (Rhino reintroduction, scout training and scout houses)
- The Prince Bernhard Fund for Nature (Conservation Education, scout houses)
- The Beit Trust (Scout houses)
- SADC Regional Programme for Rhino Conservation (Rhino Reintroduction)
- Conservation Foundation Zambia - Rhino reintroduction, scout houses, scout training
- European Union (North Luangwa Ecosystem Management Project)

Goal of Project

The wilderness of North Luangwa National Park, and the function of the natural ecosystems in surrounding areas, maintained for its intrinsic value and the benefit of people

Project logframe 2002-2009

FZS-Africa Objective 1: Protected area operations

FZS Outputs	NLCP Activities
1.2 Adaptive management systems designed and introduced	<ul style="list-style-type: none"> i. Database on patrolling and law enforcement set up and maintained monthly since 2001 ii. Monitoring and analysis of data on law enforcement efforts quarterly with regular reports to management meetings
1.3 Resource protection operations effective and management feedback provided	<ul style="list-style-type: none"> i. Supply monthly rations for around 35 foot patrols per month in all sectors ii. Maintain FZS aircraft in support of Park Management activities iii. Fuel provided for supply trips and emergencies iv. Medical kits for patrols provided

1.4 Tourism management supported	<ul style="list-style-type: none"> i. Establish vehicle pontoon over Luangwa River to facilitate day-visitor access to North Luangwa NP ii. Develop day visitor loops on northern circuit iii. Develop and produce route maps for tourists
1.5 Infrastructure in support of effective operations improved	<ul style="list-style-type: none"> i. Radio communications maintained throughout the park ii. Provide and maintain 6 ZAWA and 12 NLVP vehicles including graders trucks and motorbikes iii. Boundary demarcation on western boundary iv. 97 houses in ranger posts, constructed, equipped and maintained v. NLNP offices and entrance upgraded vi. School block built at Mano vii. Existing 500km road system maintained in NLNP viii. 8 airstrips maintained in and around NLNP
1.6 NLNP finance and administration systems strengthened	<ul style="list-style-type: none"> i. Support quarterly meetings between ZAWA Wardens and rangers of NLCP operational area.

FZS-Africa Objective 2: Policies, plans and awareness

FZS Outputs	NLCP Activities
2.1 National wildlife legislation, policies and PA systems plans reviewed and revised	<ul style="list-style-type: none"> i. Review land tenure arrangement within and around NL ecosystem and assess impact on conservation and land use
2.2 Conservation advocacy carried out	<ul style="list-style-type: none"> i. Advocate policymakers to correct market distortions in ways that maximise incentives for biodiversity conservation and sustainable use ii. Establish institutional framework for stakeholder collaboration in ecosystem management
2.3 Public awareness activities conducted	<ul style="list-style-type: none"> i. Materials developed for conservation education project ii. Mobile unit equipped to reach schools around NLNP iii. Monthly visits to 9 schools carried out and audio-visual presentations provided iv. Workshop for teachers at 10 schools held v. Wide press coverage achieved for black rhino reintroduction – local and internationally
2.4 Capacity of national planning for PAs strengthened	<ul style="list-style-type: none"> i. ZAWA planner supported for 1 year in order to fill planning position in local Area Management Unit ii. Necessary equipment for planner provided iii. Technical assistance, specifically GIS-skills, provided to planner
2.5 Site-specific management planning supported	<ul style="list-style-type: none"> i. Zone plan produced for NLNP in 2002, now upgraded to GMP ii. Land use plans produced for Game Management Areas with 1 completed, others in process iii. Develop an ecosystem management plan including a zoning scheme designed to reduce conflicts between alternative land uses iv. Integrate ecosystem management plan with protected area and other stakeholder plans v. Secure stakeholder endorsement for the ecosystem management plan, and identify and agree implementation roles

FZS-Africa Objective 3: Community Conservation

FZS Outputs	NLCP Activities
3.1 Support for developing policy and procedures for community based natural resource management (CBNRM)	<ul style="list-style-type: none"> i. Evaluate community conservation and CBNRM policies and practices in Zambia and build in lessons learnt to ecosystem management design ii. Determine ways of mainstreaming ecosystem management issues and activities in sectoral programming iii. Provide training of trainers support to local government personnel in establishing and strengthening community NRM institution and governance structures and in promoting sustainable NRM.
3.2 Natural resource use and needs understood and community management plans development	<ul style="list-style-type: none"> i. Carry out participatory ecosystem resource mapping ii. Develop an understanding of the economic and development context and their impact on ecosystem functioning iii. Participate in, and financially support the development of land-use plan in Mukungule Game Management Area iv. Provide support for developing village land-use Provide support for developing village land-use plans throughout GMAs v. Provide support for developing village NRM byelaws.
3.3 Target communities supported in establishing CBNRM institutions	<ul style="list-style-type: none"> i. Assess existing community NR management institutions and mechanisms to identify capacity building needs ii. Provide training and support for developing NR management institutions administration and financial management capacity iii. Provide support for developing business plans for CBNRM institutions and ensuring their long-term viability, including financing mechanisms iv. Provided support for the establishment of Village Action Groups and Community Resource Board in Mukungule GMA
3.4 Community-based patrolling and monitoring systems developed	<ul style="list-style-type: none"> i. Training courses for community board scouts developed in monitoring and enforcing natural resource protection. 52 scouts from 3 GMAs attended so far (2005), with 28 completing the course.
3.5 Conservation-compatible development activities supported	<ul style="list-style-type: none"> i. Rations and labour in support of NLNP activities sourced from local communities ii. Mukungule Community assisted in the establishment and maintenance of a tourism camping site iii. Identify and develop natural resource -based economic development opportunities iv. Identify and establish mechanisms for collaboration between local communities and protected area authorities in developing community NR benefits v. Provide assistance in preparing business plans for community enterprises vi. Facilitate securement of donor/soft funds for promising enterprises vii. Identify marketing opportunities and potential private sector partners for scaling up community enterprises viii. Support community self-help groups in developing NR based income NR generating activities

FZS-Africa Objective 4: Knowledge.

FZS Outputs	NLCP Activities
4.1 Strategic ecosystem health monitoring plan developed	<ul style="list-style-type: none"> i. Define and agree on ecosystem boundaries ii. Carry out a strategic environmental assessment identifying major ecosystem conservation and management targets iii. Identify indicators for monitoring ecosystem health, including mechanisms for supporting adaptive management practices iv. Design a long term ecosystem monitoring programme, including mechanisms for participation by local communities and other stakeholders v. Strengthen information collection and analysis capacity of participating stakeholders in ecosystem health monitoring
4.2 Surveys	<ul style="list-style-type: none"> i. Long term vegetation monitoring scheme, involving 3 yearly transects, fixed-point photography system, and fire occurrence and impact database set up and maintained ii. SRF census of NLNP and 10 km buffer zone conducted every 2 years iii. System developed to gather information on distribution and numbers of species either rare or difficult to census with aerial surveys, such as sable, wild dog, etc. iv. Establish socio-economic and ecological baseline for monitoring NL ecosystem health
4.3 GIS-based monitoring tools developed for adaptive management	<ul style="list-style-type: none"> i. GIS mapping of NLNP completed ii. ZAWA biologist trained in GIS use iii. Existing field staff operations database improved iv. Standard reporting procedures on data derived from database established
4.4 Applied research on priority issues	<ul style="list-style-type: none"> i. Creation of partnerships with research institutions e.g. University of Pretoria on movements of elephants and other large ungulates ii. Facilitate studies aimed at generating better understanding of biodiversity in NLNP e.g. remote sensing ground truthing by UoP, Amphibian biodiversity study with U of Western Cape
4.6 Threatened species research	<ul style="list-style-type: none"> i. Rhino browse study carried out and disseminated

FZS-Africa Objective 5: Sustainable financing

FZS Outputs	NLCP Activities
5.2 Long term financing needs and revenue generating potential identified	<ul style="list-style-type: none"> i. Current as well as future financial needs listed, including costs for planned developments such as rhino introduction or road upgrading
5.5 Technical support to partners for fund raising	<ul style="list-style-type: none"> i. Development and submission of proposals to donors facilitated ii. Specific investors/donors for specific projects targeted e.g. rhinos, conservation education
5.6 Institutional mechanisms for raising, managing and disbursing endowment funding developed	<ul style="list-style-type: none"> i. Methods of establishing a trust fund and other sustainable financing for North Luangwa ecosystem explored ii. Evaluate options for stakeholder collaboration in long term, including environmental endowment funds

FZS-Africa Objective 6: Special programmes

FZS Outputs	NLCP Activities
6.4 Conservation and management plans for key species in NL developed and implemented	<ul style="list-style-type: none"> i. Participated in development of National Rhino Management Plan for Zambia in 2003 and developing a specific NL Rhino Management Plan ii. Conservation activities to support wild dogs implemented: awareness-raising amongst ZAWA and local communities and sightings and den site database developed.
6.5 Species re-introductions	<ul style="list-style-type: none"> i. Re-introduction of black rhinos and establishment of viable population: 5 reintroduced to date ii. Build capacity within ZAWA to monitor and keep secure the rhino population

FZS-Africa Objective 7: Human resources

FZS Outputs	NLCP Activities
7.1 Short and long term training opportunities	<ul style="list-style-type: none"> i. Student supported at the Wildlife Management Diploma Programme at Weak, Tanzania ii. ZAWA prosecutor supported on 6 month prosecutor training iii. 32 New recruits trained for ZAWA iv. 3 principal and 7 assistant ranger trainers trained to conduct independent training courses. Independent courses already conducted
7.2 In-situ training opportunities	<ul style="list-style-type: none"> i. Mobile training unit developed and operational, already used in Café NP

