



NIASSA LION PROJECT WORKPLAN 2009

Niassa Carnivore Conservation Niassa National Reserve, Mozambique



This male lion and his radio-collared brother (LICM06) are the first male lions over the age of six seen in the intensive study area in the past three years (K. Begg).

Colleen and Keith Begg

Mission Statement:

The Niassa Lion Project serves to secure and conserve the lion population in Niassa National Reserve, northern Mozambique by promoting coexistence between lions and people. We acknowledge the costs to Niassa communities who live with lions while recognizing the potential of lions to provide substantial ecological, cultural and economic benefits to the Niassa Reserve and Mozambique. This mission is being achieved through direct mitigation of human-carnivore conflict, targeted pragmatic research, development of locally based monitoring systems, mentorship and training of local conservationists and community outreach (education and awareness).

2009 OBJECTIVES

Activities and outputs are listed in order of priority wherever possible; activities in italics will only be achieved in 2009 if sufficient funding is found (wish list items indicated in red on the budget).

1. Continue to investigate specifics of human-carnivore conflict and initiate testing of specific actions to decrease human-lion conflict identified in 2008.

Activities & outputs

- a. Complete in-depth questionnaire survey in Mavago-Msawize village complex in western Niassa to complete survey of lion and other carnivore attacks in NNR initiated in 2007 (July 2009).
- b. Test effectiveness of bamboo fence around fields to keep warthogs and bushpigs (and therefore lions) out of mashambas:-
 - i. Develop and provide datasheets for NCP research assistants (E. Waiti, P. Sandali) and Mbamba residents to collect information on human-carnivore conflict in fields and bushpig and warthog damage throughout wet season (Jan-April 2009).
 - ii. Assess effectiveness of fences and report back to community (May 2009).

2. Improve capacity of NNR to respond to human-carnivore conflict events by developing PAC guidelines. Aim is to minimize confusion and resentment in local communities, increase effectiveness of NNR to respond quickly, define responsibilities for both NNR (response time, action to be taken) and communities (protection of livestock, unprovoked attacks) and standardize reporting.

Activities & outputs

- a. Produce draft guidelines for discussion with SRN and NNR staff (warden, security officer and community officer; April 2009)
- b. Finalize document and provisionally implement in NNR (July 2009)
- c. Inform communities of steps that will be taken when human-carnivore conflict is reported, information that is needed by NNR to respond effectively and responsibilities of communities for stock protection etc (July-December 2009).
- d. Implement guidelines (July-December 2009).
- e. Examine effectiveness of guidelines and in collaboration with SRN/ NNR and communities make changes where necessary (Dec 2009)

3. Examine the cultural role of lions and other carnivores in Niassa communities.

Activities & outputs

- a. Identify and interview spiritual leaders in NNR to understand how communities deal with carnivore attacks and ways to involve spiritual leaders in mitigating attacks (May-November 2009).
- b. *Organise a visit by anthropologistt Paulo Israel to collaborate in short study to investigate the role of spirit mediums and spirit lions in lion human conflict events and cultural important of lions and leopards in Niassa communities (July 2009).*

4. Continue with targeted ecological research of lion in intensive study area to understand movement patterns around villages and across the Lugenda River, age structure, and visual aging cues in NNR to inform sport-hunting quotas.

Activities & outputs

- a. Monitor movements of individual radio-marked lions around Mbamba and Nkuti villages through use of GPS radio collars, replace collars where necessary (May – Nov 2009).
- b. *Continue to radiomark additional lions in intensive study area with GPS collars to understand movement patterns around villages.*

5. Continue to engage with sport hunters to minimize unsustainable sport hunting (hunting of underage individuals).

Activities & outputs

- a. Develop, produce and distribute lion aging pamphlet for sport hunters based on Niassa data (July 2009)
- b. Organize specific meeting for Professional Hunters in Reserve to discuss visual aging cues for leopard and lion.
- c. Report back on 2008 results and way forward at public SRN Tourism Operators meeting (June 2009)

6. Continue to develop MOMS community scout monitoring programs

Activities & outputs

- a. Identify 2009 training needs and support annual MOMS training workshop in collaboration with SRN (September 2009).
- b. Analyze 2009 MOMS data of specific value for NCP (special species sightings, human –wildlife conflict; Dec 2009)
- c. Develop draft three-year budget and MOMS Strategy in collaboration with SRN (September 2009).
- d. MOMS strategy document completed and accepted by SRN and NNR staff with clear designation of responsibilities, activities and budget for next three years (Jan 2010)
- e. *Provide funding and guidance for further practical training of NNR community Officer – i.e. visits to successful community programs (Mpanda Wilderness, Lewa Downs etc) of NNR.*

7. Continue to support and guide program to reduce disease risk to carnivores in NNR

Activities & outputs

- a. Fund annual rabies vaccination of domestic dogs in NNR.
- b. Provide comments on draft domestic dog strategy to be produced by R. Branco in Jan 2009 based on 2008 survey supported by NCP.
- c. Collaborate with National Veterinary Department to provide and analyse blood and parasite samples from Niassa carnivores to assess current disease risk

8. Initiate environmental education and awareness in NNR

Activities & outputs

- a. Train and assist NCP field assistant with providing two report backs on NCP activities to Mbamba village community (May 2009, Nov 2009).
- b. Survey Niassa schools to find out how many schools there are inside the protected area, their current status and needs and the appropriate age group for environmental education (June –August 2009).
- c. Develop and fund road signs for NNR that promote awareness of flagship carnivore species and wildlife in the area in collaboration with SRN (Jan-April 2009)
- d. *Produce a poster on effective stock (goat, chicken, domestic dog) protection methods for villages (Feb 2010)*
- e. *Initiate development of Niassa conservation story book for use in Niassa Schools.*

9. Continue with mentoring and training of local Mozambican conservationists

Activities & outputs

- a. Drivers license for E. Waiti- field assistant (Dec – Jan 2009)
- b. Develop TOR (January 2009) and provide 6 months of full time field conservation experience as a Research Assistant to A. Jorge, Mozambican graduate currently working for SRN (June-November 2009).
- c. Assist A. Jorge with applying and finding funding for further training in 2010 with practical field work completed with NCP (Masters Degree in Conservation Biology or Conservation Diploma (Oxford-Panthera)

10. Secure more reliable funding streams and future for NCP

Activities & outputs

- a. Develop NCP website and regular e-newsletter for sponsors (April 2008).
- b. Investigate option and costs of setting up Mozambican Niassa Carnivore Conservation Foundation with board of directors to facilitate project leaders obtaining visas, hiring of Mozambicans on proper contracts as field assistants, and more secure long term future of the program (Dec 2009).
- c. Complete funding proposals to Panthera, WCN, etc (Jan –Dec 2009).

11. Increase awareness of NCP work and importance of Niassa National Reserve to a broader audience both nationally and internationally.

Activities & outputs

- a. Obtain endorsement of NCP from Ministry of Tourism and establish links for information sharing (Dec 2009).
- b. Collaborate on Phase II of National Lion Survey and development of National lion Conservation Strategy (Jan – Dec 2009).
- c. Continue to collaborate with Selous Niassa Wildlife Corridor Working Group through regular meetings and sharing of information.
- d. Write and submit paper on lion trophy monitoring system and results over past 5 years in NNR (June 2009).

BUDGET SUMMARY 2009

2009 SUMMARY BUDGET

NIASSA CARNIVORE PROJECT-LIONS

PROJECT INCOME	2009	STATUS
Rufford Innovation Award	28000	pending
Fair Play Foundation-FFI USA	26000	secured
Sci-Flint Chapter	3500	secured
Panthera	30000	pending
Predator Conservation Trust	1400	secured
Private donations	2319	secured
Credit 2008	1400	
WCN	18690	secured
Total	111309	

2009 PROJECT BUDGET Item	TOTAL 2009 BUDGET			SECURED	Unmet needs	
	TOTAL	CORE	WISHLIST		CORE	WISHLIST
Administration and development costs	6550	3200	3350	1500	1700	3350
Fund raising and awareness	6300	5500	800	4450	1050	800
Travel costs	10600	10600	0	5100	5500	0
Personnel- Salaries payments	31500	31500	0	13950	17550	0
General Running Costs / consumables	20617	20617	0	12559	8058	0
Targeted Research	40080	22080	18000	3925	18155	18000
Monitoring of Sport hunting	950	950	0	0	950	0
Community education, extension and awareness - conflict	76410	3810	72600	2725	1085	72600
Community Scout Monitoring Program (MOMS)	6960	6960	0	3620	3340	0
Disease Prevention -Domestic Dogs	2184	2184	0	1534	650	0
Mentorship, training & workshops/ for SRN/ NNR staff	7900	5900	2000	4100	1800	2000
Miscellaneous / contingency	3000	3000	0	600	2400	0
TOTAL BUDGET	213051	116301	96750	54063	62238	96750

NCP BUDGET 2009

PROJECT INCOME	2009
Funding Secured	
Fair Play Foundation	26000
Sci-Flint Chapter	3500
Private donations	2319
Credit 2008	1948
Predator Conservation Trust	1400
WCN	18690
Total	53857
Total core outstanding	62444
Total outstanding	159194
Funding pending	
Panthera	30000
Rufford Innovation Award- second tranche	28000
TOTAL	58000

Niassa Carnivore Project - Core Costs	Total US\$			FUNDING SECURED		FUNDING NEEDS		
	Item	Cost/unit	Total units	Total cost	NO UNITS	US\$	NO. UNITS	US\$
Administration and development costs								
Colleen Begg Salary (5 % of time)	100	12	1200	7	700	5	500	
Accounting software- Quick books	350	1	350	0	0	1	350	
Bank Charges	1000	1	1000	0.4	400	0.6	600	
Mozambican Foundation	3000	1	3000	0	0	1	3000	
Annual administration and auditing fees-Ratel Trust	1000	1	1000	0.4	400	0.6	600	
SUBTOTAL			6550		1500		5050	
Fund raising and awareness								
Colleen Begg - 5% of salary	100	12	1200	4	400	8	800	
Keith Begg (5% of salary)	25	12	300	2	50	10	250	
2008 WCN EXPO- fact sheet, newsletter, images	1500	1	1500	1	1500	0	0	
2008 WCN EXPO - travel expenses	2500	1	2500	1	2500	0	0	
Website and newsletters design and maintenance	800	1	800	0	0	1	800	
SUBTOTAL			6300		4450		1850	
Travel costs								
Mozambican meetings - operators, PH, SRN	850	4	3400	0	0	4	3400	
Internal road travel- resupply in Lichinga (diesel and accomodation)	300	4	1200	2	600	2	600	
Travel -Maputo, RSA (incl. RSA-Moz -1trips)	1500	4	6000	3	4500	1	1500	
SUBTOTAL			10600		5100		5500	

	COST/UNIT	UNITS	US\$	NO UNITS	US\$	NO UNITS	US\$
Personnel- Salaries payments							
Project leader (Colleen Begg)	1800	12	21600	5	9000	7	12600
2 x local field assistants	125	24	3000	18	2250	6	750
Camp Assistant -radio, guard, general	100	12	1200	8	800	4	400
K. Begg (project leader,part time field work)	475	12	5700	4	1900	8	3800
SUBTOTAL			31500		13950		17550
General Running Costs / consumables							
Vehicle Fuel (200 lt drums)	300	16	4800	10	3000	6	1800
Generator Fuel- petrol	300	5	1500	2	600	3	900
Vehicle insurance & licensing	2727	1	2727	0.5	1363.5	0.5	1363.5
Project vehicle maintenance and servicing including tyres	1500	1	1500	0.8	1200	0.2	300.0
Personal field vehicle maintenance and servicing -part time use on project	750	1	750	0.5	375	0.5	375
Basic Food supplies & rations (6 people)	400	12	4800	9.5	3800	2.5	1000
Uniforms and equipment for staff	400	2	800	2	800	0	0
Emergency Evacuation Policy -2 adults	420	2	840	1	420	1	420
Batteries	600	1	600	0	0	1	600
Email -BUSHMAIL	1000	1	1000	0.5	500	0.5	500
Visas (2 adults)	250	2	500	2	500	0	0
Office supplies / ink / printing, stationery, datasheets	500	1	500	0	0	1	500
Medical supplies & vaccinations (malaria medication, rabies vaccines)	300	1	300	0	0	1	300
SUBTOTAL			20617		12558.5		8059
PROGRAMS							
Targeted Research							
Lion GPS collars and shipping charges	4500	3	13500	0	0	3	13500
Dry season -Flight time for aerial tracking	300	7	2100	4	1200	3	900
Wet season-Flight time for aerial tracking	300	3	900	0	0	3	900
Batteries for camera traps	360	3	1080	0	0	3	1080
Veterinary drugs and supplies -capture	1000	1	1000	1	1000	0	0
Leopard GPS collars and shipping charges	4500	4	18000	0	0	4	18000
Lion-Leopard VHF collars	400	4	1600	4	1600	0	0
Extra camera traps to replace broken	350	4	1400	0	0	4	1400
Miscellaneous camping & capture supplies (spotlights, torches, rope etc)	500	1	500	0.25	125	0.75	375
SUBTOTAL			40080		3925		36155
Monitoring of Sport hunting							
Lion and leopard trophy monitoring forms	50	1	50	0	0	1	50
X-rays of pulp cavities	10	30	300	0	0	30	300
Lion aging pamphlet	600	1	600	0	0	1	600
SUBTOTAL			950		0		950

	COST/UNIT	UNITS	US\$	NO UNITS	US\$	NO UNITS	US\$
Community education, extension and awareness - conflict							
Community assistance- adhoc	30	12	360	0	0	12	360
True sinewave inverter to run Powerpoint projector	600	1	600	0	0	1	600
Community meetings - Conflict mitigation meetings and workshops	250	1	250	0.5	125	0.5	125
Extension work- conflict resolution vehicle	37000	1	37000	0	0	1	37000
Dedicated extension worker -salary	800	12	9600	0	0	12	9600
Conservation -Education Storybook specific to Niassa -20-30 schools	15000	1	15000	0	0	1	15000
Conflict resolution posters	600	1	600	1	600	0	0
Local Language DvD-production and postproduction	8000	1	8000	0	0	1	8000
Cultural value of lions - Anthropologist advice P. Israel	3000	1	3000	0	0	1	3000
Road Signs- Prevent Road Kills- speedlimits and safeguard our wildlife	2000	1	2000	1	2000	0	0
SUBTOTAL			76410		2725		73685
Community Scout Monitoring Program (MOMS)							
Community scouts (information and time)	30	168	5040	87	2610	81	2430
Community scout uniform	6	20	120	10	60	10	60
MOMS Community scouts -Meetings -2	50	8	400	3	150	5	250
MOMS Community scouts -Diesel for salaries -follow up	300	3	900	1	300	2	600
MOMS Community scouts stationery supplies/ datasheet	500	1	500	1	500	0	0
SUBTOTAL			6960		3620		3340
Disease Prevention -Domestic Dogs/ African Wild Dogs							
Carnivore blood sample -disease Analysis	1000	1	1000	0.75	750	0.25	250
Veterinary travel costs -food	400	1	400	0	0	1	400
6 boxes syringes	14	6	84	6	84	0	0
500 rabies vaccines	500	1	500	1	500	0	0
Cotton, antibiotics, antiseptic	200	1	200	1	200	0	0
SUBTOTAL			2184		1534		650
Mentorship, training & workshops/ for SRN/ NNR staff							
Drivers license for Field Assistant	500	1	500	1	500	0	0
A. Jorge (Research Assistant -Research Experience with NCP)	900	6	5400	4	3600	2	1800
GIS software for SRN and NCP -multiple users	2000	1	2000	0	0	1	2000
SUBTOTAL			7900		4100		3800
Miscellaneous (repairs, postage etc)	3000	1	3000	0.2	600	0.8	2400
TOTAL			213051		54063		158989
TOTAL CORE			116301		54063		62239

