



COUNTERPART FUNDS PROJECT, PL 480 TITLE I PROGRAM/ACTIVITY DESCRIPTION
Project No. 2.83

Project Activity Title: Local Currency Support for Natural Resources Management Project, Project No. 611-0251, Elephant Conservation and Management Survey

Description of Project/Activity: This survey is one of three counterpart fund activities being implemented by the National Parks and Wildlife Service (NPWS) through the Natural Resources Management Project (NRMP). The U.S. Agency for International Development (USAID) in conjunction with the NPWS is providing funding for the NRMP in support of the NPWS's Administrative Management Design (ADMADE) program. Also, the World Wildlife Fund (WWF), through a USAID grant, is providing technical assistance and equipment to ADMADE and the NPWS's Wildlife Conservation Revolving Fund (WCRF).

To effectively conserve and manage the elephant population in conjunction with other wildlife in Zambia's game management areas (GMA) and national parks (NP) the NPWS and participating local communities must have reliable data showing the number and location of the herds. This cannot be done without a comprehensive aerial survey which will provide critical information necessary to:

- a) make sound conservation and management decisions based on elephant distribution and numbers;
- b) help assign limited personnel and equipment for antipoaching patrols;
- c) assess the need to cull in some areas because of overpopulation and excessive destruction of range; and
- d) establish baseline census of elephant population;

This counterpart funded project will provide funds to the NPWS to carry out an air survey of the national parks and game management areas. September and October are the most suitable months for the survey which will include the following areas:

1. Mweru Wantipa NP and Kaputa GMA
2. Sumbu NP and Toncwa GMA
3. Lusenga Plain NP
4. Mansa GMA
5. Isangano NP with Luwingu and Chambeshi GMA's
6. Lavushi Manda NP with Bangweulu GMA **** (1)
7. Kasanka NP with Kafinda GMA
8. North Luangwa NP with Musalangu GMA **** (2)
9. Luambe NP with Munvammadzi GMA
10. Lukusuzi NP with Lumimba GMA
11. South Luangwa and Nsefu NP's with Lupande and Sandwe GMA's **** (3)
12. Lower Zambezi with Chiawa, Rufunsa, Luano, West Petauke and Chisomo GMA's



- 2 -

13. Blue Lagoon and Lochinvar NP's with Kafue Flats GMA **** (1)
14. Kafue NP with Mulobezi, Sichifulo, Bilili Springs, Nkala, Namwala, Mumbwe, Kaluanvenbe, Lunga-Luswishi, Machiya-Fungulwe, and Kasonso-Busanga GMA's
15. West Lunga NP with Musele-Matebo, Lukwakwa, Chibwika-Ntambu, and Chisela GMA's
16. Sioma Ngwezi NP and the southern half of West Zambezi GMA. (Liuwa Plain NP and the northern half of West Zambezi GMA are excluded since no elephants are there.)

The areas marked **** (1), (2), (3) will be surveyed by :

- (1) WWF Wetlands Project
- (2) North Luangwa Project
- (3) LIRDP

Rationale for Project/Activity: In May, 1991 the only suitable NPWS survey plane was totally destroyed. The only other option to carry out the aerial survey is to hire aircraft and pilots. Due to the late start at least two aircraft and possibly three will be needed to complete the survey before the onset of the rainy season in late November.

In the past wildlife inventories have been based on sample estimates (indicator estimates) collected by very restricted air and land surveys. At best elephant population estimates are highly speculative and questionable. The last (1985) indicator estimates for elephants in all areas projected the population between 32-38,000 on the high side and 25-28,000 on the conservative side. A spread of this magnitude provides little basis for realistic poaching protection, conservation, and herd management. An additional benefit of this census will be the ability to be more responsive to donor organizations seeking reliable and current data on elephant conservation.

Estimated Project Activity Cost: K7,380,000.00. Source: Bank of Zambia Special Account No. 846, funds generated by the PL 480 Title I Program, FY 1990.

Project Activity Duration: September, 1991 - October, 1991.

Project Terminal Disbursement Date: No funds shall be disbursed for any activities under this Agreement after December 31, 1991, unless otherwise agreed to in writing by the parties to this Agreement. Any funds remaining unexpended by December 31, 1991 will be returned to the Special Account No. 846 not later than thirty days after the terminal disbursement date.



- 3 -

Operational Financing Modalities: The funds provided herein for the elephant population survey will be released from the Bank of Zambia (BOZ) Special Account No. 846 to be deposited in the Wildlife Conservation Revolving Fund (WCRF) National Commercial Account No. 1530246956001, Kwacha Branch, Zambia National Commercial Bank, and will be used solely for those activities specified in the budget (Annex II) for aircraft rental, operating cost, personnel support, and equipment costs. These funds shall not be comingled with any other funds received by WCRF. No funds will be used to support credit programs, military expenditures or salary supplements.

Reporting on Usage of Funds: NPWS will prepare a monthly summary report for the Ministries of Finance and Tourism and USAID/Zambia which will provide an itemized account of disbursements of funds using the format in Annex I., Accounting Report. The summary report will be comprised of expenditures as per line items in the budget in Annex II. The report shall be submitted not later than 7 days after the end of a month.

Accountability: NPWS agrees to keep the Ministries of Finance and Tourism and USAID/Zambia apprised of the progress of implementation of this activity by providing the monthly report detailed above and keeping subsidiary accounting records, and reports as detailed in Annexes I and II, to account for the use of funds and corresponding transactions under this agreement. NPWS further agrees that USAID/Zambia and the Ministries of Finance and Tourism, through their duly authorized representatives, retain the right to inspect and audit all records pertaining to this activity at all reasonable times, within three years of the project terminal disbursement date. Subsidiary accounts will be maintained by WCRF for all payments and transactions funded from this account. The WCRF accounting system and fiscal reporting procedures meet USAID accountability guidelines for local currency programs.

3

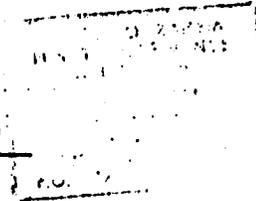


Office in Charge of Project/Activity: NPWS

For Ministry of Finance:

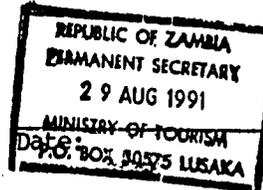
James Mtonga
Name: James Mtonga
Title: Senior Permanent Secretary

29-08-91
Date:



For Ministry of Tourism:

L. Daka
Name: L. Daka
Title: Permanent Secretary



For NPWS:

P.M. Chipungu
Name: P.M. Chipungu
Title: Director

Date:

Concurrence:

For USAID/Zambia

Fred E. Winch
Name: Fred E. Winch
Title: Mission Director

3 Sept '91
Date:

Annex I: Statement of Work which includes methodology for conducting the survey, personnel and transport needed, and estimate of flying time required. Report formats of monthly expenditures and survey work status.

Annex II: Budget and notes

Statement of Work

The NPWS will be responsible for arranging the aircraft and pilots, support staff, professional staff, ground transport, equipment, and all logistical support as needed.

A. Survey Method: Initially search patterns, East/West or North/South routes, will be flown in each area to determine elephant distribution. As search patterns locate areas of concentration, transect (grid) patterns will be flown of that particular area to collect numbers and composition of herd. The search and transect patterns will be mapped so as to make subsequent surveys repeatable. To avoid risk of counting duplication in the larger areas two aircraft will be used. For example, in Kafue National Park the two aircraft will both start at the midsection of the park then work away from each other, flying north and south, respectively.

B. NPWS Personnel: NPWS staff will consist of six biologists, four drivers, five field assistants, and casual local labor.

C. Flight Section: Two pilots and two aircraft. One aircraft will be on loan from the WWF.

D. Land Transport: Two seven ton trucks and two land cruiser pickups will be used to transport rations, camp equipment, and fuel and oil to overnight camps at landing strips.

E. Reports:

(1) Accounting Report: The NPWS will be responsible for the preparation and accuracy of the accounting report detailed in Reporting on Usage of Funds above. The reporting format below will include date and amount of deposit to the account, and disposition by Annex II budget line item:

Project Name and Number:

Report Date:

Reporting Period

Deposit

Date

Total Deposits

Expenditures

(As per budget line items in Annex II)

Total Expenditures -----

Account Balance -----

(2) Monthly Work Status Report: The NPWS will provide a monthly work status report on survey progress using a standardized format such as outlined below. The final monthly report will include a summary of areas surveyed, breakdown of data, general comments concerning procedures, problems encountered, and recommendations.

Areas surveyed

Elephant count todate:

Problems encountered:

Comments:

NATURAL RESOURCES MANAGEMENT PROJECT - ELEPHANT CONSERVATION
AND MANAGEMENT SURVEY
COUNTERPART FUNDS PROJECT NO. 2.83
ILLUSTRATIVE BUDGET

(SEPTEMBER - OCTOBER, 1991) - *

EXPENDITURES	NO. UNITS	UNIT COST K.	TOTAL K
1. AVGAS - 180 HRS. FLYING @ 4 HRS. FLYING PER 210 LITER DRUM = 9,450 LITERS	9,450	105	992,250
2. AVDIL - LITERS	90	450	40,500
3. AIRCRAFT RENTAL - 180 HRS.	180	10,000	1,800,000
4. GROUND TRANSPORT COST - FUEL AND OIL			1,230,000
5. STAFF SUBSISTENCE ALLOWANCES			
A. 8 PROFESSIONAL STAFF - 28 DAYS EACH	224	1,050	235,200
B. 9 SUPPORT STAFF - 28 DAYS EACH	252	750	189,000
6. CASUAL LABOR			8,500
7. RATIONS FOR 17 (5. A. & B.) - 476 DAYS	476	2,000	952,000
8. MISC.. COST AND EQUIPMENT			
A. AVGAS FUEL PUMPS AND ANCILLARY TOOLS			200,000
B: FUEL DRUMS DEPOSIT			125,000
C. TENTS - **			420,000
D. CAMPING EQUIPMENT/CAMERAS/ TAPE RECORDERS - **			224,941
9. CONTINGENCY (@ 15% OF TOTAL)			962,609
			7,380,000

* - WWF WETLANDS PROJECT, NORTH LUANGWA PROJECT, AND LIRPD AREAS
SURVEY COSTS WILL BE BORN BY EACH INDIVIDUAL PROJECT

** - IF THIS EQUIPMENT DUE FROM USAID ARRIVES PRIOR TO THE SURVEY THIS
EQUIPMENT WILL NOT HAVE TO BE PURCHASED