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Kavango Farning Systems Research Team.

Community survey summary

of inland 'omuramba' and riverside communities in the Kavango region.

METHODOLOGY AND AIMS:

FOLLOWING A DOCUMENTED PROCESS OF COMPILING DISTRICT PROFILES AND SITE SELECTION, TWO VILLAGE COMMUNITIES WERE CHOSEN FOR THE COMMUNITY SURVEYS. FIASTIARE COMMUNITIES, AND MBORA (40KM SOUTH-WEST OF RUNDU) REPRESENTS INLAND COMMUNITIES.

THE SURVEYS WERE PERFORMED IN JUNE AND JULY 1995 BY INTERDISCIPLINARY TEAMS OF RESEARCHERS, EXTENSIONISTS AND NGO FIELD WORKERS. INFORMAL AND PRA SURVEY METHODS WERE USED TO COLLECT QUALITATIVE AND DESCRIPTIVE INFORMATION. THE MAIN AIMS WERE:-

- TO DEEPEN OUR UNDERSTANDING OF THE SOCIOECONOMIC STRUCTURE AND AGRICULTURAL ACTIVITIES OF A RIVER AND AN INLAND COMMUNITY;
- TO COLLECT INFORMATION WHICH ALLOWS RESEARCH TOPICS TO BE PRIORITISED JOINTLY BY FARMERS, RESEARCHERS AND EXTENSIONISTS;
- TO IDENTIFY FARMERS TO PARTICIPATE IN A COLLABORATIVE RESEARCH PROCESS;
- TO DEVELOP POSITIVE WORKING RELATIONS WITH THE COMMUNITIES.

FULL COPIES OF THE SURVEY REPORTS FOR EACH COMMUNITY ARE AVAILABLE FROM THE PROJECT ON REQUEST.

SUMMARY OF FINDINGS:

AN IMPORTANT INDICATOR AND CRITERIA OF RELATIVE WEALTH IN BOTH COMMUNITIES WAS PLOUGH OWNERSHIP. PLOUGHS ARE NOT ONLY ASSOCIATED WITH LIVESTOCK RESOURCES AND CROPPING AREA, BUT ALSO CORRELATE WITH ACCESS TO FORMAL EMPLOYMENT. NON PLOUGH-OWNING HOUSEHOLDS INDICATED THAT LACK OF CAPITAL TO INVEST IN PLOUGHS WAS A MAJOR CONSTRAINT TO AGRICULTURAL PRODUCTION.

COMMON CHARACTERISTICS FOUND IN BOTH THE RIVERSIDE AND INLAND COMMUNITIES WERE:

- MIGRANT LABOUR;
- HIGHER LEVEL OF EDUCATION FOR YOUNGER GENERATIONS;
- SIGNIFICANT QUANTITIES OF UNDER-UTILISED MANURE;
- OPEN ACCESS TO COMMON PROPERTY RESOURCES.

COMMON PROBLEMS AND CONCERNS OF RIVERSIDE AND INLAND COMMUNITIES WERE:

- DECLINING SOIL FERTILITY:
- PROBLEM FOR NON-PLOUGH OWNING HOUSEHOLDS TO CLEAR NEW FIELDS INLAND;
- Loss of SEED VARIETIES:
- CROP PESTS IN FIELD AND IN STORAGE;
- □ INTEREST IN DROUGHT TOLERANT VARIETIES (OKASHANA MILLET & KUYUMA SORGHUM);
- LIVESTOCK AND POULTRY DISEASE:
- LARGESTOCK THEFT.

THE MOST IMPORTANT ENTERPRISES FOR IN BOTH AREAS WERE:

NON PLOUGH-OWNERS:

COMMON RESOURCES
(RIVER AND FOREST

PRODUCTS)

CASUAL LABOUR

FOR EITHER:

MILLET

MAIZE

SORGHUM

BAMBARA NUTS

GROUNDNUTS COWPEAS/BEANS

CUCURBITS

WILD VEGETABLES
WOODWORKING
BLACKSMITHING
BASKET-MAKING

PENSIONS

OBSERVED DIFFERENCES BETWEEN RIVERSIDE AND INLAND COMMUNITIES WERE:

INLAND:

SMALL SIZE (30 HOUSEHOLDS).

HOMOGENOUS POPULATION.

GOOD COOPERATION BETWEEN

HOUSEHOLDS.

GOOD ATTENDANCE AT COMMUNITY

MEETINGS.

FEWER PROJECTS AND DEVELOPMENT.

FEW FARMERS GROUPS OR LINKAGES

WITH FARMERS ASSOCIATIONS.

ACCESS TO NEW LAND.

PLENTIFUL WILD FRUIT.

MORE FOOD SECURITY (DUE TO WILD

FRUIT AND VEGETABLE SUPPLIES).

50% PLOUGH OWNERS.

NO CUCA SHOPS OR STORES.

TRADITIONAL LABOUR EXCHANGE STILL

OPERATES.

No ROOT CROPS.

MORE SEED VARIETIES, YET EXPRESSED

CONCERN AT THE LOSS OF VARIETIES.

MORE FRUIT TREE VARIETIES.

WILD FRUIT PRODUCTS VERY

IMPORTANT.

RIVERSIDE:

LARGE SIZE (144 HOUSEHOLDS).

PLOUGH-OWNERS:

CATTLE

GOATS

CHICKEN

FORMAL EMPLOYMENT

HETEROGENOUS POPULATION.

POOR COOPERATION BETWEEN

HOUSEHOLDS.

POOR ATTENDANCE AT COMMUNITY

MEETINGS.

MORE PROJECTS AND DEVELOPMENT.

WOMENS' GROUPS, LINKAGES TO KFRU.

SHORTAGE OF LAND.

WILD FRUIT BECOMING SCARCE.

LESS FOOD SECURITY (COMMON

RESOURCES BECOMING SCARCE).

20% PLOUGH OWNERS.

CUCA SHOPS AND STORE.

LABOUR EXCHANGE INTEGRATED INTO

CASH ECONOMY.

SWEET POTATO (& LEAF CASSAVA).

A NUMBER OF NEW ENTERPRISES:

EXOTIC VEGETABLES, DUCKS,

SUNFLOWER, TOBACCO, DOVES.

LESS FRUIT TREE VARIETIES - BUT A NUMBER OF DIFFERENT SPECIES FROM

THE INLAND COMMUNITY.

REEDS USED FOR MAT-MAKING.

THE PARTICULAR CONCERNS OF RIVERSIDE AND INLAND COMMUNITIES WERE DIFFERENT, AND REFLECT THEIR RESPECTIVE NATURAL AND SOCIO-ECONOMIC ENVIRONMENTS:

NO RELIABLE SEED SUPPLY

FOREST FIRE DESTROYING FRUIT TREES AND

GRAZING

LACK OF EXTENSION ADVICE HEALTH PROBLEMS - NEED CLINIC TRANSPORT PROBLEMS

RIVERSIDE:

LACK OF PLOUGHS AND OXEN

WILD FRUIT BECOMING FURTHER AWAY

FISH BECOMING SCARCE

LACK OF CASH.

- glood cow

ISSUES FOR RESEARCH, EXTENSION, TRAINING AND FARMER SUPPORT SERVICES: THESE ISSUES EVOLVED FROM DISCUSSIONS BETWEEN FARMER GROUPS AND THE INTERDISCIPLINARY RESEARCH TEAMS.

APPLIED RESEARCH:

DECLINING SOIL FERTILITY

- OPTIMUM FERTILISER USE FOR DRYLAND MILLET PRODUCTION ON SANDY SOILS;
- DOPTIMUM USE OF MANURE AND APPLICATION CONSTRAINTS;
- ALTERNATIVE SOIL FERTILITY IMPROVEMENT MEASURES FOR LOW-INCOME FARMERS WITH NO LIVESTOCK (I.E. MULCHING, AGROFORESTRY);
- USE OF ACACIA ALBIDA;
- USE POLLARDING ON EXISTING TREE SPECIES TO MINIMISE COMPETITION AND BIRD PESTS DURING THE GROWING
- IMPROVED FALLOW (USES OF SESBANIA SESBAN!);

LACK OF SEED (AND LOSS OF TRADITIONAL

VARIETIES)

COLLECTION, STORAGE AND BULKING OF TRADITIONAL

VARIETIES;

COLLABORATE WITH LOCAL FARMERS IN SEED BULKING ACTIVITIES.

CROP PESTS & WEEDS

- LOW EXTERNAL INPUT CONTROL OF FIELD AND STORAGE PESTS:
- TEST LOW-COST IMPROVED GRANARIES;
- DIDENTIFICATION OF BAMBARA NUT PESTS & TEST MANAGEMENT STRATEGIES FOR PEST CONTROL;
- ON-FARM TRIALS (ACCEPTABILITY AND YIELD) OF BIRD-RESISTANT SORGHUM AND MILLET VARIETIES;
- EXPLORE ORGANIC IPM METHODS;
- COLLABORATIVE DESIGN WITH LOCAL BLACKSMITHS OF TOOLS FOR FASTER AND EASIER WEEDING.

LACK OF DRAUGHT ANIMAL POWER LIGHTER IMPLEMENTS FOR DONKEY OR SINGLE OXEN ON SANDY SOILS;

MINIMUM TILLAGE STRATEGIES.

LOW RAINFALL

CONTINUE TESTING OF DROUGHT RESISTANT VARIETIES;

DEVELOP LIVESTOCK MANAGEMENT STRATEGIES FOR EARLY

LAND PREPARATION / PLANTING;

ON-FARM MULCHING TRIALS.

FRUIT TREES

INVESTIGATE PROPAGATION OF INDIGENOUS FRUIT TREES.

WEEDS

□ WEED-CONTROL MANAGEMENT PRACTICES;

S DRAUGHT AMMAL 10065 FOR WELD COMPER. PART

ASSESSMENT OF REQUIRED CHANGES IN CROP MANAGEMENT

AND MID-TERM EFFECTS).

DECLINE IN FISH

D EXPLORE COMMUNITY MANAGEMENT STRATEGIES;

HERBIVOROUS FISH FRY PRODUCTION AND MARKETING.

TRANSPORT

COLLABORATIVE DESIGN WITH LOCAL ARTISANS;

□ HUMAN YOKE;

□ INCREASE USE OF DONKEYS, MULES AND HORSES.

EXTENSION:

SOIL FERTILITY

□ FARMERS REQUIRE SPECIFIC INFORMATION ON TYPE OF

FERTILISER MOST SUITABLE FOR MILLET PRODUCTION ON

SANDY SOILS AND APPLICATION RATES.

CROP PESTS

PROVIDE FARMERS ON INFORMATION ON CONTROL OF

APHIDS AND BAMBARA NUT PESTS;

INFORMATION ON CONTROL OF SMUT;

BIRD CONTROL.

PROTECTION OF

FRUIT TREES

DEVELOP COMMUNITY STRATEGIES FOR CONTROL OF

FOREST FIRES.

CHICKEN

DISEASES

INFORM FARMERS OF MANAGEMENT STRATEGIES FOR THE

RELEVANT PROBLEMS.

WEEDS

USE OF DRAUGHT ANIMAL POWER FOR WEED CONTROL.

DECLINE IN FISH

EXPLORE COMMUNITY MANAGEMENT STRATEGIES.

SEED SUPPLY

IMPROVE PUBLICITY OF SEED SALES.

FOREST FIRES

MORE EDUCATION IN SCHOOLS AND THROUGH NBC ABOUT

THE VALUE OF FOREST RESOURCES AND FIRE HAZARDS.

TRAINING

ORGANISATIONAL

TRAINING IN GROUP FORMATION AND MANAGEMENT.

CAPACITY

INCOME

□ STARTING UP AN INCOME GENERATING PROJECT;

GENERATION

BASIC ACCOUNT MANAGEMENT;

LOAN MANAGEMENT.

SEED SUPPLY

SEED MULTIPLICATION METHODS.

FRUIT TREES

PROPAGATION AND CARE OF FRUIT TREES.

FARMER SUPPORT SERVICES:

LACK OF MAKE PLOUGHING SERVICES MORE ACCESSIBLE TO

DRAUGHT ANIMAL POORER HOUSEHOLDS;

POWER OR EXPLORE MEANS OF IMPROVING FARMERS ACCESS TO

PLOUGHING DRAUGHT ANIMAL POWER;

SERVICES.

MAKE INDIGENOUS AND EXOTIC FRUIT TREE SEEDLINGS

AVAILABLE TO FARMERS.

NO RELIABLE SUPPORT FORMATION OF SEED SUPPLY OUTLETS.

SEED SUPPLY

POULTRY

UVETERINARY ASSISTANTS COULD CARRY DRUGS TO TREAT

DISEASES POULTRY DISEASES;

UILLAGE LEVEL PARAVETS COULD BE TRAINED TO DIAGNOSE AND TREAT SIMPLE LIVESTOCK DISEASES.

FUTURE WORK:

FOLLOWING THESE PRELIMINARY COMMUNITY SURVEYS, THE PROJECT PLANS TO INITIATE COLLABORATIVE RESEARCH ACTIVITIES WITH REPRESENTATIVE INDIVIDUALS FROM GROUPS OF FARMERS IN MASHARE AND MBORA COMMUNITIES. WORKING TOGETHER WITH MAWRD RESEARCHERS AND EXTENSION OFFICERS, THE PROJECT PLANS TO RESEARCH AND DEMONSTRATE IN A PRACTICAL MANNER A RANGE OF TECHNOLOGIES OR MANAGEMENT STRATEGIES WHICH COULD HELP FARMERS OVERCOME SPECIFIC CONSTRAINTS WHICH THEY HAVE IDENTIFIED. THIS 'CAFETERIA OF OPTIONS' WILL HOPEFULLY BE GENERATED FROM ADAPTIVE OR APPLIED RESEARCH IN NAMIBIA OR THE REGION, AND FROM INNOVATIVE FARMER PRACTICES OBSERVED IN KAVANGO. THE TECHNOLOGIES WILL BE SCREENED BY REPRESENTATIVE CLIENT GROUPS OF FARMERS, THESE GROUPS MAY THEN SELECT WHICH IDEAS MIGHT BE APPROPRIATE FOR THEIR OWN FARMING SYSTEMS. IF POSSIBLE, THESE TECHNOLOGIES SHOULD THEN BE TESTED BY FARMERS, UNDER THEIR OWN FARMING CONDITIONS (WITH PARALLEL TRIALS ON STATION) OVER THE NEXT YEAR.

FURTHER INFORMATION NEEDS:

TO INCREASE THE EFFECTIVENESS OF THE PROJECT AND TO ENHANCE THE APPLICATION OF THE FSR PERSPECTIVES, MORE BASIC INFORMATION IS NEEDED ON A RANGE OF SPECIFIC TOPICS:

- THE SOCIO-ECONOMIC INTERACTIONS BETWEEN RIVERSIDE AND INLAND COMMUNITIES;
- THE INDIGENOUS AGRICULTURAL KNOWLEDGE INFORMATION STRUCTURE (WHO KNOWS WHAT, WHY, AND WHO HAS/IMPARTS SPECIALISED KNOWLEDGE);
- THE HOUSEHOLD CYCLE (FORMATION OF NEW HOUSEHOLDS, AND INHERITANCE ETC);
- RESOURCE OWNERSHIP AND MANAGEMENT:
- ENTERPRISE ANALYSIS (IN COLLABOPATION WITH MAWRD PESFAPCHEPS):
- LIVESTOCK AND RANGE MANAGEMENT;
- PLANTING METHODS FREQUENCY OF DRY PLANTING, ROW PLANTING ETC;
- COMPARISON OF DRY PLANTING/LATE PLANTING ON CROP SECURITY AND YIELD;
- INVENTORY OF ECONOMIC FOREST SPECIES TO IMPROVE UNDERSTANDING OF DISTRIBUTION AND TRENDS:
- FORESTRY MANAGEMENT OVER A BROADER RANGE OF USES/ISSUES:
- TRADITIONAL METHODS OF AQUATIC RESOURCE CONTROL AND RIPARIAN RIGHTS:
- DENTIFY PROBLEM WEEDS AND EXAMINE ORGANIC CONTROL METHODS;
- PESTS AND DISEASES MONITOR IMPACT ON CROP PRODUCTION.

C:\HENRY\SUMMARY.EDIT