

probably be utilized more extensively than at present. Instead of the TRDP considering a request from KEFRI for an extension of their rather modest facilities in Lodwar, efforts should be made to accommodate some of KEFRI's needs within the TREMU facilities.

There is an obvious need for an organizational body that can ensure proper coordination between the two institutions. If the newly appointed District Environment Officer and the District Sub-Committee for Research do not provide the desired coordination, efforts should be made to establish a local committee with representatives from the two institutions which would meet regularly. Furthermore, KEFRI should be represented on the proposed steering committee of TREMU, whilst TREMU should take part in district meetings whenever KEFRI issues are on the agenda.

During the TREMU review (Ref. Report of the TREMU Review Mission, January 1989) a lack of communication between TREMU and the district officials was revealed. In order to facilitate and promote closer day-to-day contact between TREMU and the district in general, and the District Planning Unit in particular, TREMU funding could partly come from the TRDP. The TRDP could have a vote for natural resource research to be applied for by TREMU as well as by KEFRI, and/or jointly by both.

CHAPTER 12 - COMMENTS AND IDEAS AS TO POSSIBLE WORK THAT THE MINISTRY OF AGRICULTURE, FOREST DEPARTMENT AND KEFRI MAY NEED TO UNDERTAKE TO OFFSET POSSIBLE NEGATIVE IMPACTS OF THE TURKWEL GORGE DAM ON THE RIVERINE FORESTS AND AGRICULTURE ALONG THE RIVER

12.1 BACKGROUND

The Turkana are traditionally nomadic pastoralists. However, they also practice rainfed sorghum farming along the Turkwel river flood plains. Rainfed gardens were situated in silt deposits resulting from changes in the river course, where only a few trees grow. With the creation of gardens in the riverine forests, tree such as Salvadora persica, Ilyphaene coriacea and Acacia tortilis have been cleared from the area.

12.2 ASSESSMENT

The only existing information on the dam is contained in a 1979 report by Worconsult A.S. This data is not adequate for prediction purposes because the dam under construction does not follow the design protocols of that report.

In 1979, it was estimated that in the immediate Turkwel flood plain about 4000 ha of irrigable land was potentially available on the Turkwel floodplain.

It was then considered that the triangle of land contained between the Turkana District boundary, the Malmalte and the Turkwel rivers and a tract of land on the left bank of the Turkwel beginning about 6 km downstream of the Twin Islands was suitable for irrigation. These covered a total area of some 6000 ha.

Advantages considered for developing these areas vis-a-vis floodplain irrigation schemes were:

- i) clearing costs would be low as the areas were only covered by thin Acacia bush, rather than thick riverine forest;
- ii) the area was divided into large blocks. These could be more efficiently serviced with infrastructural developments such as roads, more effectively managed and were closer to sources of electric power than schemes scattered down the length of the floodplain would be;
- iii) the problem of water loss through seepage and evapo-transpiration in the floodplain was expected to be more or less eliminated as the areas were within a few kilometers of the proposed outlet from the power station.

However, there were some obvious deficiencies in basic hydrological data then and now. As a result, a great need for an extended data collection programme was recommended before final decisions could be made about building the dam. It was envisaged that the basis for analysis and proposals for specific measures to be taken and reservoir operation would plan to minimize the effects of siltation. For one reason or another, the proposed studies were never carried out.

12.3 RECOMMENDATIONS

The problem of seepage and evapo-transpiration losses downstream of the Turkwel Gorge has been discussed at some length with particular emphasis on the lack of data. But since it was never considered feasible nor necessary to initiate complicated and costly studies, even the empirical approach initially recommended was not done. Building of the dam is now complete and inundation will soon begin. As a result, the review mission recommends that systematic empirical long-term assessments to monitor downstream impacts of the dam be started.

After the dam is full, the quantity of surplus water over and above the requirements of existing irrigation should be assessed before commissioning new irrigation schemes.

TREMU and KEFRI should establish long-term sample plots to determine likely changes in plant population dynamics (species diversity and composition) with a view to prescribing corrective measures.

APPENDIX I

COMPOSITION OF THE REVIEW TEAM

A P P E N D I X I

COMPOSITION OF THE REVIEW TEAM

- | | | |
|---------------------|---|--|
| Mr. Per Prestgard | - | Natural Resource Management Division, NORAD, Oslo. |
| Mr. James Macharia | - | Ministry of Environment and Natural Resources (MENR). |
| Mr. Patrick Milimo | - | Kenya Forestry Research Institute (KEFRI). |
| Mr. Mosoti Andama | - | Ministry of Agriculture (MOA). |
| Mr. Mwangi Wandurwa | - | Ministry of Agriculture (MOA). |
| Mr. David Kamweti | - | Forestry Consultant, Kamfor Co. Ltd. |
| Mr. John Kimani | - | Agricultural Consultant, Rural Development Services Ltd. |
| Prof. G. C. Mutiso | - | Extension, Training and Institutional Support Consultant, Muticon Ltd. |
| Dr. Peggy Fry | - | Socio-Anthropology Consultant and Secretary, Norconsult A.S. |
| Ms. Aru Inamdar | - | Secretary, Norconsult A.S. |

APPENDIX II

TERMS OF REFERENCE FOR THE AGRICULTURE AND FORESTRY

SECTOR REVIEW, 1989

A P P E N D I X II

TERMS OF REFERENCE FOR FORESTRY SECTOR REVIEW 1989

The Team shall :

- (1) Review the implementation and progress of The Turkana Forestry Development Project including the following :
 - (a) Courses conducted, (type of courses, course content and attendance).
 - (b) Extension material produced, type and target groups.
 - (c) Tree planting activities, species, people involved.
 - (d) Agro-forestry activities (in conjunction with the Agriculture review team and input from the livestock sector).

- (2) Review the implementation and progress of NORAD funded Kenya Forestry Research Institute project in the District, relating such activities to work being carried out within other programmes/projects. Particular attention should be paid to:
 - (a) Forestry Research in the District.
 - (b) Forestry Research in Turkana with respect to National Forestry Research Objectives.

- (3) Assess the roles of the Forestry Department and KEFRI in the development of the District.

- (4) Assess the position of the different Forestry Sector Activities (Forestry Department and KEFRI) under the following headings :
 - (a) Research
 - (b) Conservation and Management
 - (c) Tree planting and tree nurseries
 - (d) Extension, Education and Trainingand relate these activities to work being done within other programmes/projects.

- (5) Suggest proposals for any necessary changes in objectives, strategy or implementation for the forestry sector activities that can be incorporated into the 1989/90 to 1992/93 Forestry Sector Plan of Action under TRDP as well as providing input into a longer ten year planning cycle.

- (6) Review the role of other Governmental and Non Governmental organizations involved in forestry activities.

- (7) Review the recurrent Forestry Department and KEFRI budgets and assess how it can cope with the increased level of qualified forestry staff at the district and divisional level. This should be related to the changing work demand being placed on the department for services.

- (8) Assess the current Forestry Department and KEFRI facilities in the district and recommend any further facilities that may be needed in the future.

- (9) From available literature, data and material provide some comments and ideas into possible work that the Forestry Department and KEFRI may need to undertake to offset possible negative impacts of the Turkwel Gorge dam on the Turkwel Riverine Forest. This could be related to different scenarios concerning the flow of the river.
- (10) Suggest concrete ideas as to ways and means that KEFRI and TREMU can co-operate in real terms in Natural Resource Research in the District.
- (11) Assess project impact and strategy in relation to future viability of the Forestry Sector Programme within TRDP.

13.9.89/BF

TERMS OF REFERENCE FOR AGRICULTURE SECTOR REVIEW

The team shall :

- (1) Assess NORAD funded irrigation schemes and relate these to irrigation work being done within other programmes/projects.
- (2) Look at problems and make recommendations on the maintenance of schemes, in both short and long term perspective.
- (3) Examine the effectiveness of extension services to farmers on the schemes.
- (4) Assess to what extent women have been successfully targeted.
- (5) Review the effect of Katilu Cooperative and the strategy behind and effect of Water Users Association.
- (6) Assess to what extent work on farming systems has progressed, and make recommendations on future farming systems planning.
- (7) Review Agro-Forestry practices in Turkana.
- (8) Provide some comments and ideas into possible work that the Ministry of Agriculture may need to identify which may offset any possible negative impacts of the Turkwell Gorge dam on Turkana agriculture. This could be related to different scenarios concerning the flow of the river.
- (9) Evaluate what groundwork has been done on dryland agriculture by the Agriculture Department and others, and their capacity to develop and sustain initiatives in this sector.
- (10) Assess the relative importance of Rainfed Agriculture and Water Harvesting in Turkana.
- (11) Assess the work carried out at the Date Palm Project to date, and evaluate the proposal prepared by the department with a view to future funding and the possibilities of expanding Date Palm production.
- (12) Assess Project impact and strategy in relation to future viability of the Agriculture Sector Programme within TRDP.
- (13) Make recommendations on organization of activities in dryland agriculture for the future.

13.9.89/BF

APPENDIX III

AGRICULTURE AND FORESTRY REVIEW MISSION:

ITINERARY PROGRAMME

APPENDIX III

AGRICULTURE AND FORESTRY REVIEW MISSION:
ITINERARY PROGRAMME

<u>DAY:</u>	<u>ACTIVITIES:</u>
Sunday 22st October	Arrival in Lodwar
Monday 23rd October	Introduction and Briefing - TRDP office Lodwar Tree Nursery Nakuta Site Tree Planting Napuu Site Tree Planting Kawalathe Site Tree Species Trial TB Manyatta Tree Planting Incentive Scheme
Tuesday 24th October	Turkwel Irrigation Scheme Date Palm Project Turkwel Tree Nursery Kalemenyang Irrigation Scheme TRP Water Harvesting Structures
Wednesday 25th October	Kakuma Tree Nursery Nomadic School Tree Planting Micro-catchments Kalobeyei Gum Arabic and Nebek Species Trials Lokichoggio Micro-catchments TRP Water-Harvesting Structures
Thursday 26th October	- Half of the team - Lokitaung Tree Nursery OXFAM's Water-Harvesting Sites, Kacoda and Kaling - Half of the team - Kalokol Secondary School Tree Planting Micro-catchments Kalatun Tree Species Trials Down Palm Regeneration Trials
Friday 27th October	Lokitaung Secondary School Tree Planting OXFAM's Water-Harvesting Lake Shore Sites
Saturday 28th October and Sunday 29th October	Discussions and Write-up, Lodwar
Monday 30th October	Katilu Tree Nursery Katilu Irrigation Scheme Met Water Users Association Members Met with Katilu Cooperative Society Lokapel Rainfed Gardens
Tuesday 31st October	Anolem Irrigation Scheme Loyapat Irrigation Scheme Julluk Irrigation Scheme Nakwamoru Irrigation Scheme

Wednesday 1st November

Lotubae/Lokwi Irrigation Scheme
Morulem Irrigation Scheme
Lokori Tree Nursery
Kangetet School Tree Planting

Thursday 2nd November
through
Sunday 5th November

Final Discussions and Write-Up, Lodwar

Monday 6th November
through
Wednesday 8th November

Final Discussions in Nairobi, NORAD Offices

APPENDIX IV

LIST OF PERSONS CONTACTED

APPENDIX IV

LIST OF PERSONS CONTACTED

Mr. S. M. Toyya	-	District Commissione, Lodwar
Mr. S. Ngugi	-	District Agricultural Officer, Lodwar
Mr. T. M. Anyonge	-	District Forestry Officer, Lodwar
Mr. C. O. Nyandiga	-	Assist. Research Officer, KEFRI, Lodwar
Mr. M. A. Ikinat	-	Date Project Officer, Lodwar
Mr. K. Wamichwe	-	Assist. Forestry Officer, Lodwar
Mr. E. Barrow	-	Acting Project Adviser, TRDP, Lodwar
Mr. R. van den Boogaard	-	'TDCPU Coordinator, Lodwar
Ms. I. Sangnes	-	Social Services Adviser, TRDP, Lodwar
Ms. H. Lungule	-	Soc. Dev. Assist., MOCSS, Lodwar
Mr. G. Oba	-	Range Ecologist & Team Leader, TREMU, Lodwar
Mr. P. Wagura	-	District Animal Production Officer, Lodwar
Mr. G. Murwara	-	Dist. Water Harvest. & Soil Conser. Off., Lodwar
Mr. D. Augo	-	Forester, Kalakol
Mr. W. S. Wabomba	-	Assist. Agric. Officer, Turkwel
Ms. R. Musyoka	-	Assist. Agric. Officer, Turkwel
Mr. J. K. Kaboro	-	Assist. Agric. Officer, Turkwel
Mr. E. Otieno	-	Technical Coordinator, TRP, Kalemnyang
Mr. J. Gakere	-	Forester, Kakuma
Mr. Musa	-	Chief, Lorugumu
Mr. J. Kuchala	-	Chief, Kakuma
Mr. C. Mussaba	-	Head Master, Nomadic School, Kakuma
Mr. K. Mutai	-	Asst. Teacher, Nomadic School, Kakuma
Mr. R. Mutoro	-	TRP Storeman, Lokichoggio
Mr. M. Pringan	-	TRP Area Coordinator, Kakuma
Mr. O. Aseno	-	Forester, Lokitaung
Mr. P. Chochu	-	Project Secretary, TMHP, Kaling
Mr. A. Cullis	-	Dryland Food Securiy Prog., ITDG, Lodwar
Ms. C. Wilson	-	Anthropological Consultant, ITDG, Lodwar
Mr. R. Omuhaya	-	District Officer, Katilu
Mr. L. Kivihya	-	Forester, Katilu
Mr. S. Abots	-	Chief, Katilu
Mr. F. Simiye	-	Cooperative Agric. Sec./Manager, Katilu
Mr. P. Anilyo	-	Cooperative Vice-chairman, Katilu
Mr. R. Nasur	-	WUA Management Facilitator, Katilu
Mr. F. Kokoi	-	Councillor, Loyapat
Mr. S. Emathe	-	Asst. Chief, Loyapat
Ms. R. Rukoo	-	WUA Committee Member, Katilu
Mr. P. Akiru	-	WUA Vice-chairman, Katilu
Mr. S. Ekiru	-	WUA Committee Member, Katilu
Mr. E. Ereng	-	WUA Committee Member, Katilu
Mr. S. Kamarinyang	-	WUA Chairman, Loyapat
Mr. Singoe	-	Irrigation Officer, Julluk
Mr. J. Kokiyo	-	KFC Secretary, Nakwanoru
Ms. J. Abenyo	-	Assist. Agric. Officer, Lokori
Mr. D. Tanui	-	Assist. Agric. Officer, Lokwi
Mr. J. Atelo	-	WUA Chairman, Morulem
Mr. H. Githinji	-	Forester, Lokori
Mr. D. Oyoo	-	District Officer, Kalakol
Mr. S. Kioko	-	Chairman, Cotton Lint & Seed Marketing Board, Nb

APPENDIX V

LIST OF REFERENCES

A P P E N D I X V

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