Table **Monitoring Results by Mukutani Community People (July 14, 2000)**

Visitor	Improved Jiko + Small-Scale Industry	Marigat Youth Polytechnic	Marigat Health Center	Communal Resource Management	Food Security	Pan Rehabilitation
	- I saw and learnt something about Enzaro Jiko and I feel I need one in my house. - Nothing to be improved.	- The polytechnic is well improved with new tools. - Personally, I will take my child to learn there.	- I learnt different types of diseases and preventive measures. - Nothing to be improved.	- Good agriculture system. - The community are very cooperative.	- People introduced to Agriculture. - Making of terraces. - Planting early maturing crops.	- The dam will help Rugus people very much. - It has inlet and outlet. - The dam be expanded.
	- Very fast while cooking. - Very safe in case of children. - Use less firewood. - Cooking is done at once.	- Youth trained on construction work. - Students trained on tailoring. - The youth should be encouraged to attend that kind of training.	- Good cooperation between JICA and the community.	- Community have learnt how to make terrace. - The community has been taught on Improved Agriculture.	- Community is very cooperative. - Fanya Juu terrace made. - New crop variety. - The farm should be made bigger.	- The fencing is good except that it should be made permanent. - The dam to be deepened. - The dam to be expanded.
	- Enough cooking space. - Uses less firewood. - Better than three stone Jiko. - Cooking takes less time.	- High technical level. - Youth after training will be self-reliant. - Many youth that are drop outs to be taken to the polytechnic.	- We learnt different types of diseases and their control. - Doctors to organize seminars within the community and teach them these types of diseases.	- Community has been taught on terrace making. - Improved canal, hence better irrigation management.	- The people should continue to plant different types of crop variety. - Early maturing crops to be practiced. - JICA introduced agriculture to the Arabal Community.	- Fencing should be permanent. - Plant Rabai local sisal around the dam to prevent siltation. - The dam to be expanded.
	- I learnt about Enzaro Jiko. - Very fast while cooking. - Uses less firewood	- High technology level. - I will mobilize my people through Baraza to send their	- learnt different types of diseases and their preventive. - I transfer the	- Improved canal and irrigation system. - The community are very cooperative.	- The people are well organized. - Fanya Juu terrace constructed is very good.	- The fencing done already is good but life fence is needed. - The dam to be deepened.

Visitor	Improved Jiko + Small-Scale Industry	Marigat Youth Polytechnic	Marigat Health Center	Communal Resource Management	Food Security	Pan Rehabilitation
		children there.	knowledge obtained to my people - The public health officers to go round and teach other people the same.	- Cementing of the canal to be done.	- Introduction of early maturing crops and new seed variety.	
	- The Enzaro Jiko is nice and I need one in my house. - No improvement to be made.	- People to learnt caroentry and tailoring. - Youth to be taken to the polytechnic.	- I learnt different types of diseases. - Doctor to go round the community and teach other members of the community.	- Improved irrigation system. - The canal is well improved. - Agriculture will do well.	- Very good because people have started agriculture in the area. - Planting of different variety of crops. - Fast growing crops.	- The dam will help the community a lot. - The fence is well done. - The dam to be expanded.
	- Enzaro Jiko is better than the usual one because cooking can be done at one time. - Uses less firewood.	- Different courses are offered. - The youth after training will be self-reliant.	- People taught on different types of food, which can prevent diseases. - Different types of diseases and their preventive measures.	- Very good for people to know about agriculture. - Community is very cooperative. - Good irrigation system.	- A person to plant early maturing crops. - The farms to be enlarged. - Weeding to be done in the right time.	- Fencing done is very good. - The dam to be deepened. - Planting of grass to be done.
	- I learnt it was good and I need it too in my house.	- I liked what I saw in the polytechnic and I feel I will also send my own child here. - No improvement to be made.	- I learnt so many kinds of diseases and how to prevent it. - No improvement to be made.	- New seed variety from Kitui. - Well managed irrigation system. - The canal to be expanded.	- The terrace made was good.	- The work done is very good. - The dam to be deepened.
	- The Jiko is very nice and I even need one in my house. - Uses less firewood. - Cooking is done faster.	- After training, the youth will able to be self-reliant. - It is good for parents to take their children to the polytechnic.	- We learnt different types of diseases and their preventive measure. - Doctors to go	- People have learnt agriculture and new methods of preventing soil erosion.	- I learnt a lot as far as terrace is concern. - The community has known farming.	- The fence is good. - The dam needs to be expanded.

Visitor	Improved Jiko + Small-Scale Industry	Marigat Youth Polytechnic	Marigat Health Center	Communal Resource Management	Food Security	Pan Rehabilitation
			round the villages educating the people.			
	- Enzaro Jiko saves time and energy. - Consumes less firewood.	- There is high technology level. - JICA bought new tools for the polytechnic.	- We were taught different types of diseases and their preventive measures. - I don't see any improvement to be made.	- People introduced to agriculture. - Canal improvement.	- The terrace made is very good and the people have known the importance of agriculture.	- Fencing done is very good. - The dam needs to be deepened.
	- The Jiko is very good compared to the three stone Jiko. - Saves a lot of time and firewood.	- The only good thing is the aquiry of high technology level.	- The people should be taught these kinds of diseases and their preventive measures.	- The community has known how to make terraces.	- The people have been introduced to new seed variety. - Arabal community has been taught on agriculture.	- Good fencing. - The dam to be expanded. - The dam to be deepened.
	- Many of them at Kampi Ya Samaki. - Very fast while cooking. - Saves energy and consumes less firewood.	- Tailoring and carpentry is well done in the polytechnic. - Training of school dropouts.	- I learnt about many diseases and how to prevent. - I could like the whole community to be taught about this also.	- The community is very cooperative. - The committee is very organized. - Very good improved canal.	- Planting of new seed variety introduced to the community by JICA. - Well done Fanya Juu.	- The people have done good fencing. - Agriculture to be introduced in the future to the Rugus community.
	- A lot of cooking is done at once. - Less dangerous to children. - Consumes less firewood. - Saves time and energy.	- I was happy to see the youth engaging in self –reliance courses. - We saw different types of machine and their purposes. - Idle youth to join this course.	- The doctors were organized. - We were taught different types of diseases and their causes.	- The canal to be expanded. - Good cooperation among the community level.	- I liked the farm only that it should be expanded.	

Visitor	Improved Jiko + Small-Scale Industry	Marigat Youth Polytechnic	Marigat Health Center	Communal Resource Management	Food Security	Pan Rehabilitation
	- The Enzaro Jiko appears very good. - Saves time and consume less firewood.	- High technology level. - The compound to be expanded and boarding be introduced.	- I got to know many diseases. - I could like the doctors to come to Rugus and educate others too.	- Good irrigation system management. - The canal to be expanded.	- I saw different types of crop variety. - I would like the same agriculture system in Arabal to be brought to Rugus. - The canal to be dug again.	- The dam is very good. - It needs to be expanded to serve the whole of Rugus. - Fencing to be made permanent.

Table Monitoring Results by Arabal Community People (July 20, 2000)

Visitor	Improved Jiko + Small-Scale Industry	Marigat Youth Polytechnic	Marigat Health Center	Communal Resource Management	Food Security	Pan Rehabilitation
	- Enzaro Jiko is good because it saves time. - Well raised hence less fire accidents incase of children. - Children cannot cook using this Jiko. - Retains heat for a long time.	- Students learn to sew using papers before they get experience. - School fees are low compared to what is offered. - Small boys and girls are being taught in a different classroom before being transferred to tailoring class.	-	- Blockage of water river then used for Irrigation purposes. - Canal Lining will safe water leakage.	- Arrived at Partalo farm at 10.a.m. - Pleased with main ditch which collects water from the catchment area. - Fanya Juu structure – good but need some repairs. - They dug the canal on communal basis without getting any payment (Harambee).	- Saw a well excavated pan with ditch to collect water from the catchment area. - Rugus people will be happy when their livestock will get water. - We were told they will use a pipe to draw water from the pan to both livestock and human being.
	- Good height to reduce Fire accidents to children. - Cooperation is the major factor.	- Nice work done from the intake to division box site. - Good work by JICA in provision of Materials and equipment to Sandai people. - Cooperation is the key point to success should keep up.	-	- Nice work done from intake to division box site. - Good work by JICA in provision of materials and equipment to Sandai people. - Cooperation is the key point to success should keep up.	- Impressed by crop like groundnuts, Sorghum, maize, and green grams. - Women group farm drenches are good. - Julius Chepkor farm seem to get flooded, needed proper design and embankment. - Spacing for groundnuts is very close. Cooperation and	- Part of the fence is very impressive especially life fence of Zanzibarian (Rabai). - More people should participate in fencing, digging the outlet ditch. - The pan is small hence needs expansion.

Visitor	Improved Jiko + Small-Scale Industry	Marigat Youth Polytechnic	Marigat Health Center	Communal Resource Management	Food Security	Pan Rehabilitation
					unity.	
	- -	- School fees for 2 years is Ksh. 11,200, short cources for 6 months is 300 per month. Admission qualification is standard six to form four or outstanding performance. - Accommodation is a problem. - Mechanical courses offered. - Kokoto women group collaborate with MYP I debe of ballast cost 20/= and 30/= for fine ballast. - Taught book keeping by Marigat Youth Polytechnic.	- -	- Community work is digging the canal. - There are 264 households. - There is water problem in the area. - 200 acres were initially designated started in 1932. - About 800 acres to be covered by this canal, 13 division boxes, 60 meters remaining to be excavated by farmers.	- Fanya Juu structure in place and community worked as a team (Harambee). - The ditch is 2 fit deep, groundnut need enough spacing. - Grass should be planted on the Fanya Juu structures. - Fencing to be done in all parts of the shamba.	- There is water problem in the area. - Four villages uses the pan. - They dug for four days using hands and then four days using bulldozer. - Fence with Rabai Zazibarian life fence. - Water will be piped out of the pan. - Cost sharing about 10%.
	-	- Good short courses started. - Job creation in jua kali. - Needs more sponsor in other areas like mechanics.	-	- Get water from Weseges River. - Good work done by the community especially excavation of the canal.	- Good women group farm. - Digging of ditches for conveying water into the water. - Team work done by the community.	- Far distance fetching for water. - Digging of the dam manually was hard work (4 Days). - Cost sharing with JICA Team.

Visitor	Improved Jiko + Small-Scale Industry	Marigat Youth Polytechnic	Marigat Health Center	Communal Resource Management	Food Security	Pan Rehabilitation
						- Fencing to be done all around the pan to avoid livestock entering into the pan.
	- Easy to construct Enzaro Jiko with Local materials. - Impressed by this Jiko.	- Good carpentry work. - More students are required to register.	-	-	- Good selection of farm site. - Good crops in the farms especially women group's. - Water harvesting techniques along the contours.	- Good site for pan. - There is water problem in the area. - The dam needs to be deepened. - Good fencing.
	- Constructed using local materials. - Saves firewood. - Should be introduced to other areas. - Raised high so less fire accidents in the case of children.	- Collaboration between Turkana Kokoto women group and Marigat Youth Polytechnic through provision of hand tools like hammers, wheelbarrows and mattocks. - Short courses introduced. - New carpentry machines which makes work easier to jua kali artisans in	- The health center is near hence people can foot. - People to be taught to be coming for health center for check ups before purchasing drugs/medicine from the chemists.	- Good canal lined with masonry work. - Community participated in the excavation of the canal. - Learnt about Irrigation to produce food crops.	- Good seeds for Arid Land which takes shorter time to mature. - Construction of main ditch canal which collects water a diverted into the farmland. - Fanyu Juu structure.	- Good fence and silt trap. - Good way of protecting water in the pan.

Visitor	Improved Jiko + Small-Scale Industry	Marigat Youth Polytechnic	Marigat Health Center	Communal Resource Management	Food Security	Pan Rehabilitation
	-	shaping their products. - Barazas to be organized with communities and encourage youth to join tailoring.				
	- I have seen Enzaro Jiko, it is high from the ground compared to the three stone Jiko. - Reduce firewood consumption. - It will assist women group to promote business at Kampi Ya Samaki.	- There are a number of wood work machines. - Young girls are being taught about tailoring. - Kokoto women group are doing good work.	-	- The introduction of pulses in Arabal Green grams, cowpeas and katumani maize breed. - Introduction of main and lateral canals to collect water.	- Good fencing materials. - Women participation in digging the outlet of the water canal.	-
	-	- Saw young children sewing clothes. - I liked the way they were being taught.	-	- Saw canal ditch for collecting water into the farm. - Saw millet doing well in the farms.	-	- Good fence around the pan. - Channels are there to collect water into the pan.
	-	- Happy about young children sewing clothes. - The Turkana children who could not manage to finish	-	- Unity among the community. - Canal lining using cement.	- Good growth of groundnuts, finger millet in women group farm.	- Fencing of pan all round prevents damage from animals. - An outlet canal gallery to draw water

Visitor	Improved Jiko + Small-Scale Industry	Marigat Youth Polytechnic	Marigat Health Center	Communal Resource Management	Food Security	Pan Rehabilitation
	-	school are trained to learn some skills at the center.	-			out of the pan both for human being and livestock.
	- I saw Enzaro Jiko which uses less firewood. - Retains heat for a longer period after use. - Two meals can be cooked at a time.	- Happy with the carpentry side, I saw different types of machines. - Kokoto women group of Kampi Turkana collaborate well with the MYP.	-	- The Scheme was started in 1932 by few people. - JICA assisted with provision of inputs like cement and transportation. - 264 households to benefit from this canal.	- Formed a group and prepared land jointly. - Crops found maize, sorghum, green grams and groundnuts. - The problem is there was no good rain for the crops. - Ditch Canal to convey water from the catchment.	- The pan was started in 1987. - People had a lot of water problem hence started digging the pan by hand. - Bulldozer was assisted by JICA. - A silt trap is fitted on the upper side of the catchment. - Fencing is well done best the area.
	- Good Enzaro Jiko, cooking is done very fast. - Safe for children. - Many meals can be cooked at the same time.	- After two years course one can be self-reliant. - Offer different types of courses. - Saw different types of woodwork machines. - Thanks to JICA for buying machines to MYP.	-	- I learnt about Canal lining which saves a lot of water into the farmland. We also have Irrigation at Embossos. - They have requested the same for the World Vision and now waiting for the materials.	- Welcomed by Partalo people. - Saw water Canal dug by people. - Good crops in women group's farm.	- The pan is well dug. - Saw diversion water ditch from the catchment area. - Livestock to have water trough outside the pan fence. - Intend to plan grasses on embankment of the pan.

Table Monitoring Results by Sandai Community People (July 24, 2000)

Visitor	Improved Jiko + Small-Scale Industry	Marigat Youth Polytechnic	Marigat Health Center	Communal Resource Management	Food Security
	- It saves a lot of time when cooking because many food are cooked at the same time. - Uses less firewood. - It should be smeared after 14 days.	- Enrolment done to both standard eight leavers and form fours. - There are short and long courses offered. - They have machines that JICA bought for them.	- The Clinical officers have started using the machine bought by JICA to investigate diseases. - A cause of bilharzias is being investigated around Perkerra water.	- The community is very cooperative. - They have cleared the bushes around the Canal. - They have requested JICA Study Team to employ three Fundis for them so that they can construct the canal very quickly.	- Nearness of Water to the dip. - Clean water being used. - The dip members are 120. - They should negotiate with JICA Study Team to bring them bucks so that they can improve their goats. - They need a generator to pump water to the dip.
	- Many Jikos constructed around Meisori area. - Muungano women group is the most active and is 500 in number.	- The compound is too small, JICA to extend. - I saw new tools bought by JICA.	-	-	- The dip is very good. - Goats are doing very well.
	- It uses less firewood. - Makes work easier because it saves time. - More women should be mobilized to construct the Jiko.	- Hot welcome and good introduction from the Manager. - Good tools from JICA Study Team. - No good management. Make posters for other communities to join.	- Good laboratory machines donated by JICA. - Improving health in Human. - Checking water borne diseases. - The Health Center needs more qualified doctors.	- Improving of the canal lining of 300 m of the canal. - Leveling the Shamba. - Improving of animals. - Bucks provided to the community to improve their livestock.	- Dip project has good management. - The community plans for the dip.
	- The place is not so clean because of the mud used. - Not clean water can be used.	- The compound is very clean. - JICA took them for a study tour.	- Further disease investigation is being done. - JICA have assisted the center with Laboratory	- They have not yet opened the canal. - The bush near canal has been cleared. - The community to	- The water is near to the dip. - They should have a generator to pump water into the dip.

Visitor	Improved Jiko + Small-Scale Industry	Marigat Youth Polytechnic	Marigat Health Center	Communal Resource Management	Food Security
	- Makes work easier. - Saves time and firewood.		machines.	participate in the remaining part of the dip. - JICA have assisted them employ the Fundis.	- The members are very organized.
	- Uses less firewood. - No smoke. - Makes work easy.	- We saw several machine types. - Students are mixed up ranging from young to big. - I learnt that despite of age I can still join tailoring.	- We saw the machine used in blood screening. - Prevention is better than cure. - Doctors to visit Sandai.	-	-
	- The Jiko uses less firewood. - It saves time and energy.	- I enjoyed tailoring and carpentry section.	- The Laboratory is well improved. - I saw different types of diseases and their preventive measures.	-	-
	- Easy to construct and not expensive. - There should be availability of water during construction. - It makes work easier.	- The area is very clean. - The project is well organized. - JICA have assisted them a lot by providing tools. - They were taken for a study tour to other polytechnics.	- Sanitation is very good. - The machines are kept in order. - Carrying out disease investigation.	- Bush clearing near the canal has been done to allow the community work around. - The canal is not yet opened. - The community to participate in completing the remaining part. - JICA has employed Fundis for them.	- There is water around the dip. - Sanitation is maintained around the dip area. - They need a generator to pump water from the river. - The shambas are very well organized.
	- All the Jikos are very well established. - The Jiko is very economical.	- All tools are very good. - The students at the polytechnic are doing very good work.	- All the operations are very nice. - Disease identification is improved.	- The canal is very good. - The dip structure has been repaired. - The donors have done something good to the Sandai farmers. - The community will	- Their dip is very well established. - The structure has been established very well. - Ticks have been controlled in Arabal Location.

Visitor	Improved Jiko + Small-Scale Industry	Marigat Youth Polytechnic	Marigat Health Center	Communal Resource Management	Food Security
				have goats of high breed that will improve the market for selling goats.	
	- It uses less firewood. - Cooking is done very fast.	- JICA assisted them by buying tools. - The students are doing very well. - The compound needs to be expanded.	- Good laboratory machines provided by JICA. - They trying to negotiate with JICA Study Team to provide them with various machines so that their work can run very well.	- The community has done their work nicely. - JICA Study Team has assisted them a lot. - They have cleared the bushes near the canal.	- They are trying to negotiate with JICA Study Team to give them a buck. - They should raise 30% contribution for buying the bucks.

Table Monitoring Results by Marigat Community People (Aug. 5, 2000)

Visitor	Improved Jiko + Small-Scale Industry	Marigat Youth Polytechnic	Marigat Health Center	Communal Resource Management	Food Security	Pan Rehabilitation
	- Very nice Jiko that uses less firewood. - Cooking is done very quickly because three meals can be done at once. - The improvement needed is to look for smoke outlet. - Less fire accidents to children. - I have learnt how to make the Enzaro Jiko.	- Our youth Polytechnic be improved for the community to get awareness of what the polytechnic is for. - The group did not visit the polytechnic because the students had gone for a holiday.	- I saw Laboratory machines bought by JICA. - I learnt how to prevent malaria by boiling drinking water and clearing home surroundings. - Laboratory services will be offered fully.	- Excellent work done by JICA people to the community at Sandai. - Our government for their great assistance from Japan should appreciate the JICA people. - Sandai community should be grateful to JICA for the assistance offered to them.	- Improved seeds for Agriculture provided by JICA to the community. - Farmers have understood what kinds of seeds need to be planted in Arabal. - Planting season should be well timed by farmers. - I have learnt how to take care of my farm. - I have known the right kind of seeds to be planted. - The most interesting thing is JICA willingness to work for the community and take them for tour to see most of the things for themselves.	- Rugus people should thank the JICA team for the excellent work they have done to the community. - The sponsors and the community should extend the dam to be deep and wide. - The community and JICA have done a lot of good work at Lekircha pan in Rugus.
	- Good work done by the JICA Team by introducing the Enzaro Jiko in the	- I just urge JICA team to extend their project in the Youth Polytechnic.	- JICA Team assisted the Health Center a lot. - JICA have done a	- At Sandai community, the JICA people have done an excellent	- Partalo people have appreciated the help offered to them by JICA.	- Excellent work done by JICA people in the project done in Rugus.

Visitor	Improved Jiko + Small-Scale Industry	Marigat Youth Polytechnic	Marigat Health Center	Communal Resource Management	Food Security	Pan Rehabilitation
	rural areas. - JICA to extend the program to teach about the Jiko. - Excellent job done.	-	lot of work in Marigat Health Center.	work to the community. - No other help the people of Sandai will get like that from JICA.	- We have got a lot of work experience from JICA Team. - The cost sharing is very considerate for a needy community and it is good to also involve the community in what they are doing.	- The dam to be made deep and wide. - I have learnt about cost sharing technique.
	- I saw a very nice Jiko. - I learnt about Enzaro Jiko.	-	- We thank JICA for the great assistance.	- The Canal is very good. - Improved agricultural system.	- It has let to obtainance of food from a bare land. - We have land how to harvest rainwater. - A dam should have been constructed to hold water for sometime.	- Planting of grass around the embankment of the dam. - To seal the sides by use of cement. - The people will have plenty of water within their residence. - The dam should be expanded.
	- I was taught about fuel saving Jiko. - I learnt how to construct the Jiko.	-	- We thank JICA Study Team for the assistance offered to the Health Center.	- The Canal is very good. - If possible such Canal to be constructed in many areas.	-	- It good for people to have water nearer. - The sides of the pan be repaired by use of cement.
	- Enzaro is good because it uses less firewood.	-	- The Health Center is good. - The Health Center	-	- The project is good. - Needs to be expanded.	- The project is good. - The pan needs to be fenced by use of

Visitor	Improved Jiko + Small-Scale Industry	Marigat Youth Polytechnic	Marigat Health Center	Communal Resource Management	Food Security	Pan Rehabilitation
	-	-	to be expanded.	-	- Improve channel for water. - They have started practicing basic Irrigation.	wire mesh. - The sides of the pan need to be cemented. - The pan to be expanded.
	- It is good to mother because it uses less firewood and saves much time.	-	- The Health Center is well improved. - We thank the Japanese government for their assistance.	- Irrigation system well improved. - People of Sandai to be plant large-scale crops for sale. - The people should continue with the same spirit.	- The project is good. - The project to be expanded. - The water terrace needs to be repaired.	- Water is very near. - The pan to be expanded. - Grass to be planted around the pan.
	- I have learnt about the Enzaro Jiko. - It uses less firewood.	-	- We thank the JICA Team for their donation.	-	- The soil should be dug out.	- The water is near to the people now. - The sides of the pan be repaired by use of cement.
	- The other women should follow the example of those with Enzaro Jiko. - This will conserve the trees around the environment.	-	- We thank the JICA team for their assistance especially in the Laboratory side.	- The improved Canal will lead to good irrigation system in the area.	- The JICA Study Team has introduced the Arabal community to practicing Agriculture.	- Water problem has been sorted out in Rugus area. - Thanks a lot to JICA for this kind of work.
	- The modern Jiko is good. - There is need to widen this knowledge of Jiko	-	- The Health Center is good. - We thank JICA for the provision of facilities.	- It is a very good project.	- The project is good. - Needs to be expanded. - Irrigation to be introduced in the	- The location site of the project is good. - The pan to be fenced by use of wire mesh. - The sides of the pan

Visitor	Improved Jiko + Small-Scale Industry	Marigat Youth Polytechnic	Marigat Health Center	Communal Resource Management	Food Security	Pan Rehabilitation
	to other people in different areas.	-	- The Health Center needs to be expanded.	-	village.	be cemented. - Plant grass around to control siltation.
	-	-	- The machines are new and excellent. - We thank JICA Team for the Laboratory equipment provided.	- The people of Sandai have done good work. - I have learnt that unity is strength.	- Groundnuts are excellent. - Also maize could do well but there was no enough rain.	- Four villages use the pan. - The pan is excellent. - Grass be planted around the pan as quickly as possible. - The dam to be deepened and be made wider.

Table Monitoring Results by Kapkun (Sabor) People (November 3, 2000)

Visitor	Rainwater Harvesting at Partalo (Food Security)	Rainwater Harvesting with Semi-circular Bunds at Rabai
David Chabet, 30 Years Kamalal, Kapron	- The canal was good training water in the shamba. - The mettle was also good more to be planted. - The pigeon peas were good mostly short duration and long duration for big shamba to be planted. - The stone check dams should be done properly with more hard working. - Fanya Juu terracing inside the plot.	- The grass grown was fairly good at Rabai. - The shamba were built up the soil and it was good.
Richard Yegon 32 Years Kimalal, Kapron	- The canal is big enough 338.8 m from the line along the shamba with branches into every shamba , more stone check dams with hard working. - The partition in the shamba was good and well fenced. - 27 May 2000 millet and maize was planted and have been harvested by November (maize-10 kg and millet-21 kg). Big shamba to be planted. - The kind of Maize planted was D.L.C., Coast Composite and H513 was good in big plot to be planted. - The most important was D.L.C., Coast Composite and Embu. - The more number of terracing defines how big is the shamba and the slope. - More progress for millet to be planted in a large shamba and also pigeon peas in a large shamba. - Mawele to be put off out of the shamba because of no products. - Short and long duration pigeon peas are all good for large shamba. - The rainfall received was up to 151mm throughout the three months and D.L.C. cost consumption manage up to 10 kg. Maize and 21 kg Millet harvested.	- Sagegrass is planted at Mr. Kilano garden at Rabai - Sagegrass sell with a price of 300/= ksh. - The scope of water harvesting is good in dry areas such as Rabai where you can see the parse shamba , Kapkun and Kampi wakulima. - Fruits seeds Millet and Sorghum.
Machael Komen 27 Years Kimalel, Barsibet	- The long distance of the canal that is 388 m. - Control at the stone check dam - Firm fencing - Introduce various types of crops e.g. maize, millet, groundnuts - Coast Composite, D.L.C. (Dry Land Composite) - 3 ft of the ditch - Long duration 180 days, medium duration 150 days, short duration less than 140 days planting in 28/8/2000 - 31 lateral lines in the shamba.	- Good collection of rain water - Good method of water harvest - Good terraces - Good firm fencing - How to dig terrace? *Lessons:* - Poor soil can be changed to be useful. - How the fence is firm

Visitor	Rainwater Harvesting at Partalo (Food Security)	Rainwater Harvesting with Semi-circular Bunds at Rabai
	- Pearl Millet 28/8/2000 - The problem of the canal is silting. - The best type of crops in this area is pigeon peas. - Practice of water harvesting to be done. - How to construct a canal? - Which type of crop should be plant and harvest earlier or short period? - The group work - They had organized group before JICA came then they form now a big group known as Kapkonoi Farmers Group. - Farmers were given farm tools by JICA. - JICA gave them seeds also. - The farmers cultivate the land themselves. - The farmers cooperate in weeding and harvesting - If they harvest well, then the farmers are supposed to return this seed to JICA. - They said that they will be provided for the market. - Major problem is the rain which is not enough. - Another problem is the sickness of the farmers. - Wild animals destruct their crops e.g. baboons, porcupine and war dog *What they like is:* - Water harvest - Good quality of seeds - Provision of tools - The experience of knowledge - Farmers exposure to successful areas *Problems* - Fence, destruction of wild animals	
Pircilla Chirchir 24 Years Kimalel, Kapkun	- Pigeon peas is the best crop in dry areas. - 28/8/2000 short duration 140 days by November has got flowers. - 16/6/2000 long duration 180 days Embu varieties maize - Medium duration less than 150 days - pearl millet - 28/8/2000, early land preparation to improve more crop harvested. - Crops for short rain should be planted earlier. - This project needs hard work, willing heart and interest.	

Visitor	Rainwater Harvesting at Partalo (Food Security)	Rainwater Harvesting with Semi-circular Bunds at Rabai
	- The more improvement of water harvesting, the more crops we harvest. - 27/3/00 people of Partalo started to dig canals outside the shamba, on 3/4/00 they started with 48 members the canal inside the shamba, groundnuts got ready by November 5, 2000. - The group of people must be ready and available at any time. - The project is beneficial because it will serve the whole village, D.L.C (Dry land composite) Maize H511, H622 (you dig 3 inches wide, deep or terraces) is planted when the soil is not wet and takes three days to germinate while Embu type of maize needs a lot of rain.	
Josephine Komen 24 Years Kimalel, Barsibet	- Canal length is 338.85m. - Benefit of stone check dam - Removal of remaining soil - Planting of hybrid seeds 513 - DLS: dry land seeds for 3 months - Planting grass on top of terrace - Coast Composite seeds - Firm fencing of land - Planting pearl millet mpasi 28/8/2000 - Long duration takes 180 days. - Medium duration less than 150 days - Short duration takes 140 days. - Early season crops	- Land rehabilitation - The farmer wants to plant grass and fruits. - Making of semicircular pan and also fanya juu - The real main objective was to plant grass.
Joseph Cherop 24 Years Kimalel, Kapkun	- Fencing first garden - Variety of seeds H513 planted on 17/5/2000 - Pearl millet, (a) long duration, (b) medium duration, (c) short duration *Good points:* - The different seeds e.g. pearl millet - Channel where water pass *Points to be improved:* - The people of Partalo should be united to extend the canal to reach some garden. - They should improve fencing to avoid animals destroying their crops. *Lessons:* - I have learnt that with hard working you can harvest good harvest.	- The method used is semi-circular.

Visitor	Rainwater Harvesting at Partalo (Food Security)	Rainwater Harvesting with Semi-circular Bunds at Rabai
Joseph Chebor 30 Years Kimalel, Kapkun	- Depth of the canal depends on the slope of the land. - Distance from the source of water depends on the catchment. - No. of terraces in one acre depends on sloppiness of the land. - Distance from one terrace to another depend on the layout of the farm. - Variety of crops - Breed of maize- H513, DLC and Embu breed maize, pigeon peas, pearl millet. *Problems:* - Water of high gradient spots the terraces (fanya juu) - 7/5/2000 - growing first crop, 7/7/2000 - growing second crop - Check dams to reduce the speed of water - Furrows are used to harvest water to be used by crops. - Pearl millet 28/8/2000, medium duration less than 150 days, short duration 140 days down canals, long duration 180 days *Good points:* - Making check dams across the water channel from source of water to be harvested - Making of terraces on the farm to control water to be used by crops - Growing crops of short duration which the seeds are certified - Making use of running water which could have been wasted - Conservation of soil erosion - No deforestation in the area - Co-operation among community members	- Semi-circular fanya juu terraces is very important.
Carolyne Rutto 22 Years Kimalel, Kapkun	- Canal length is 338.8m. - 28/8/2000, 2/7/2000, 3/3/2000 - Weeding is done together by farmers.	
Mary Barakwa 25 Years Kimalel, Barsibet	- Long duration, short duration, medium duration pearl millet 28/8/2000, 13/4/2000. - One week, fanyu juu, 7/5/2000 - Kapkinoi farm group are digging by themselves and keep tools. - The look after their shamba in case of wild animals like baboons, ward dog. - Good quality of seeds	
Peris Kibet 22 Years Kimalel, Kapkun	- The length of canal is 338.8m. - Have made stone check dams. - First crops 7/5/2000 (3 month), second crops 28/7/2000 - Pearl millet and sorghum	

Visitor	Rainwater Harvesting at Partalo (Food Security)	Rainwater Harvesting with Semi-circular Bunds at Rabai
William Chelal 36 Years Kimalel, Kapkun	*Good points:* - Canal length is 338.8 m. - Good maintenance of the main canal - Proper management of the fanya juu terrace - Good organization of the farm structures - Intercropping of crops is good. - Planting proper seeds depending on ecology - Pigeon peas suitable for the areas - They cultivate pigeon peas, maize, pearl millet, millet, groundnuts. - Pigeon peas 28/8/2000, long duration 180 days, medium duration 150 days and short duration less than 140 days. - DLC and three month for the pearl millet - Kapkunoi Farmers Group formulate groups by-laws, set up a program by committee, contribution in labor/food, cooperation of members. They got certified seeds. Farmers gave out their land for demonstration, use of farmer members, measure of canal to be dug (5m.) and Ksh 10 for any person who missed community. *Points to be improved:* - Small dam to be constructed to allow conservation of water for use - Use of live fence or chain link for protection - Use of a tractor for digging *Lessons:* - Proper utilization of land - Use of appropriate technology which is relevant to the area - Growing of certified seeds - Organized group work *Problems:* - Drought - Lack of food - Pests like baboons	*Semi-circular land:* - Good live fence - Good use of the soil - Good rehabilitation of land *Lessons:* - Good utilization of land - Land rehabilitation
Kipchumba Cherop 23 Years Kimalel, Kapkun	- The canal length is 338.8m. - Construction of stone check dam and firm fencing - Long durations crops is up to 180 days, medium duration is 150 days, short duration is 140 days. - Pearl millet 28/8/2000	

Visitor	Rainwater Harvesting at Partalo (Food Security)	Rainwater Harvesting with Semi-circular Bunds at Rabai
Sokome Kangogo 42 Years Kimalel, Barsibet	*Good Points:* - Building of canals - Planting of right varieties that can take short time to mature - Planting of pigeon peas which are resistant *Points to be improved:* - Weeding to be done at the right time - Improve on fencing	- Semi-circular bunds - Planting of grass
Joseph Chemjor 30 Years Kimalel, Kapngetuny	*Points to be improved:* - Fruits to be planted along the canals or water way - Soil on the water way to be removed - Grass should also be planted beside the water way - In the shamba they should plant other crops with maize e.g. beans, cowpeas or green grams for maximum use of land - Weeding to be done on the crops - Furrows to be made between the crops e.g. maize so that a little rain can commend collect water - Make good fence to protect the shamba from the entering of animals *Lessons learnt:* - Water collected can enable the planted crops to be harvested - Crops that take short time 2-3 months are the best to be grown since you can harvest twice a year. - The soil can retain water for a long time when it is brought by the trench, which makes almost every crop to be planted. A good method to be used	*Points to be improved:* - Find the way the water can overflow when it fills the pan - Dig the trench for fanya juu to be deeper to get a lot of water to prevent the overflow which may disturb or destroy the small pans for harvesting water - He can try different types of grass in order to get the one that is better. *Lessons learnt:* - Poor soils can be made fertile by growing grass. - The soil can be useful for planting of grass that might not have grown. A good method to be used on poor soils. - Good fence has been used.

Visitor	Rainwater Harvesting at Partalo (Food Security)	Rainwater Harvesting with Semi-circular Bunds at Rabai
Wesley K. Rotich 22 Years Kimalel, Kapkun	- Controlling of water from the dam check down (they were started by 43 persons) - The main dug meters about 338 meters long. - Dividing the water to the main canal to the shamba and using panya juu. - The main canal is to dig three fit down. - H513, DLC composite: this breed take just three months - Planting of grass at the top of the panya juu - Removing the soil from the main canal - 28/8/2000 was planted, long duration 180 days, medium duration 150 days, short duration 140 days - Pearl millet is containing protein. - In this farmer of Partalo they have seven plots and for the women group makes 8 plots. - The types of crops are millet, maize, P/Peas, groundnuts, sorghum and beans. *Things to be improved:* - They must control the water and removing the soil on the main canal. - Controlling of pesticides so that they can not destroy the grains. - Weeding the shamba so that to make the plants grow well. *The problems of Kapkinoi:* - There are many destroyers in Partalo (like baboons, birds and pesticides)	- Semi-circular pans, it is used to planted grass and trees - Using the rain water - Using live fence - Using fanya juu method
Salina Cheburet 22 Years Kimalel, Kapkun	- The Kapkunoi Farmers Group starting of this land - Planting days 7/5/2000, 17/7/2000 D.L.C. - The crops found there are maize, millet, sorghum - Cashew nuts duration 140 days - Pearl millet long duration 180 days - They have 20 women. - Starting 27/3/2000 - They are having all tools. - 3/4/2000 they started inside work of the land after this work they went of show for five days then they started planting their crops e.g. maize. This maize they take 3 days to germinate.	

Visitor	Rainwater Harvesting at Partalo (Food Security)	Rainwater Harvesting with Semi-circular Bunds at Rabai
Samson Barakwa 35 Years Kimalel, Barsibet	- Varieties of Maize H513, Coast Composite - Building of canals (big ones) - Check dam to reduce the speed of water - A spillway should be build to allow water. - Canal size is 3 meters deep and 3 meters wide. - Guidelines for trenches, depend of the lands (terraces) many all call furrows - Pearl millet, short duration less than 140 days, medium duration 150 days, long duration 180 days *Points to be improved:* - Improve on fencing and take care of the farm - Weed the farm properly to avoid high completion of weeds versus crops for nutriments - Make many fanya juu and furrows - Partalo people settled near their farm in order to guard it during the day and night against animals e.g. domestic and wild. - Main canal 27/3/2000, 40 men and 30 women - Cultivating groundnuts, finger millet - Coast composite and Embu varieties	- Semi circular pans - The farmer planted grass - Previous grass planted died - Fanya juu made by the farmer are made purposely to hold in water - Farmers made outlets to discharge the water when it is excess - Main objective is to grow grass and fruits

Visitor	Rainwater Harvesting at Partalo (Food Security)	Rainwater Harvesting with Semi-circular Bunds at Rabai
Susan Rotich 30 Years Kimalel, Emuon	- Canal length is 338.8 m. - Planting started on 7/5/00 - Next 17/7/2000 and now almost ready - Planting of short season crops - Planting of grasses and fruits along the fanya juu terrace - Long duration pigeons peas 180 days 16/6/2000 - In some shambas didn't harvest. - Planting twice in a year - Fencing should be improved to be live fence. - Also grazing of livestock should be far from the farms - By this method of farming we will improve our standard of living. - Use of puppets to prevent birds - Main canal started on 27/3/00 with a number of 40 persons and it took almost one week. - Fanya juu started on 13/4/00, lateral line took three days. - If somebody miss working, he pays. Discussion: - Kapkunoi farmers group - Discernments from people - At first there was no enough tools. - The greatest problem is the drought. - JICA team gave them tools and seeds. - The farmers were guarding the farms by themselves but the problem was that they became sick. - Wild animals destroying the crops. - The farmers liked the fanya juu. - Good seed quality - Knowledge experience - Exposure to other places who are successfully - Gave them tools to be used - The best thing is water harvesting.	- Rehabilitation of the land - This farmer wants to plant grass, trees and fruits. - He want to practice zero grazing cow

Table Inter-Locational Monitoring Tour- Rugus (Feb. 7th 2001)

Name	Age	Loc.	Sub-loc.	Improved jiko +small industry KYS Expansion of improved jiko Eldume *How is the project Improved compared to the last monitoring tour?*	*findings(good points/points to be improved/Lessons)*	Rehabilitation of pan (Rugus) in Mukutani Location) *How is the project Improved compared to the last monitoring tour?*	*findings(good points/points to be improved/Lessons)*	Food security rain-fed agr. (Partalo in Arabal Location) *How is the project Improved compared to tour?*	*findings(good points/points to be improved/Lessons)*	Communal resource Management Sandai Loc. *How is the project Improved compared to the last monitoring tour?*	*findings(good points/points to be improved/Lessons)*
Francis	18	Mukutani	Lekircha							there is something about that terrace. I liked the arrangement of the work of the community of that place. JICA tean has given the people of that place some much things like goats and generator to use in pumping water to their farms around	Something good I see in this place is Jikos which is important to the ladies. The jiko I saw was easy to construct. Jiko is important also around Eldume
Charles		Sentai		The first time to go to Eldume I saw a Jiko which was introduced by JICA and I saw it was very nice. I could like the same be introduced in Rugus							The first day for me to go to Sandai. Iam pleased by the nice farms they have
Dominic Kateya	20	Mukutani	Lekircha	They have a very good jiko for cooking very fast. It could be nice if it could also be put in Rugus	Cooking is done very fast, Saves alot of firewood and energy	like the one for Sandai, we need a canal to be dug for the pan to collect enough water. Sandai is number one in improvement and Kampi Ya Samaki. There also a lot of improvement in the side of the jiko	My pain is my pan has not improved. It is not good			They improved because they harvested maize in the yaer 2000. They were improved with the crops and development. They have a good dip for washing their animals. They also have a very good canal	They have nice farms and cattle dip for washing animals. They have improved bucks
Paul Sautet		Sentai		I liked the Jiko at Eldume . It is a nice one like the one at kampi Ya Samaki and it does the same function						Sandai community have a lot of development. they harvested maize because thay were given a generator to pump water into their farms	
Tom Tawilo	28	i	Rugus								
Tom Lesitur	20	Mukutani	Lekircha	the jiko is wonderful. I have never seen in my life time						Sandai have been assisted a lot by JICA by providing them with improved bucks,generator and other things	I saw a jiko at Eldume

Table Inter-Locational Monitoring Tour- Kapkuikui, Loboi, Eldume (Feb. 13th 2001)

Name	Age	Loc.	Sub-loc.	Improved jiko +small industry KYS Expansion of improved jiko Eldume *How is the project* *Improved compared to the last monitoring tour?*	*findings(good points/points to be improved/Lessons)*	Rehabilitation of pan (Rugus) in Mukutani Location) *How is the project* *Improved compared to the last monitoring tour?*	*findings(good points/points to be improved/Lessons)*	Food security rain-fed agr. (Partalo in Arabal Location) *How is the project* *Improved compared to the last monitoring tour?*	*findings(good points/points to be improved/Lessons)*	Communal resource Management Sandai Loc. *How is the project* *Improved compared to the last monitoring tour?*	*findings(good points/points to be improved/Lessons)*
Joseph Cherutich	30	Kapkuikui	Tirion	tour this places and according to what I saw was very good (2) The jiko at Eldume was good and we heard that most of the people will make enzaro jiko in their houses (3) The women group project at Kampi ya Samaki was also good and i hope the group will make use of it and benefit from it		Since it is my first time to this place, I also saw that people from that place had a lot of problems. If they will take care of the dam it will last and they will benefit	To every project we visited it actually need propper care and good management				
Richard Rerimoi	18	Kapkuikui	Poi	According to my observation there is quite a good improvement (1) It saves time since all the food can be cooked and be consumed at the same time (2) It needs few firewood (3) It keeps food warm for sometime	The technicians should teach the community the method on how to maje it	(1) It has improved the living standard of the Rugus people for about two months during the time of rain (2) The distance of movement from Rugus to Kampi ya Samaki has been improved	(1) The dam should be made deeper to maintain water for sometime (2) The people of Rugus should be taught on how to maintain the ppan			It has saved some money since it was constructed by the people by labour and they have got some crop yield	
James Korir	29	Loboi	sukutek							The place or the tour from Sandai was good and the Chairman explained to us about the intake which the JICA sponsored that it was good. Along the way to Rugus it was good. We made the community in the dam busy doing the duty. We request more support for those people living at Rugus	(1) Good administration and their should be close supervision (2) Stake holders should be more advanced (3) Cost sharing be introduced and exercised fully
Leah Kapyekoi	45	Loboi	Tingtingyon	We visited Kampi Ya Samaki and it was a wonderful thing only that we request the government of Japan to support them because the Muungano group will support the economy of the area	Increase more projects in the affected areas						
J.K Yator	24	Loboi	Kaprongun o	The Jikos have improved compared to the first ones in Kampi Ya Samaki which consited of three stones	(1) It is more economical (2) It saves time (3) It is more comprehensive	(1) The project is improved since the extension had been constructed where the animals and human beings are getting their water for use (2) The fencing is good to avoid the water being	The pan should be deepened to hold more water and the water source to be improved to prevent siltation				
Elijah Kipterai	20	Loboi	Kaprongun o	The project have been started and completed only windows and doors of the rooms are to be completed	(1) The project will improve the living standards of the women when completed (2) The women can still rent the building if they are unable to run small scale industry	(1) Dam has been constructed (2) Communal water point is under construction (3) fencing has been using locally available materials (4) There is no water in the dam	Notes about the project to be provided before living for the place to the participants			(1) The water in the Canal can move faster compared to the other time (2) Water lost from the Canal through seaving has been reduced.	Farmers are now able to control water to the farms since there are divistion boxes provided
Rebbeca Yegon	22	Marigat	Marigat		Good quality jiko, saves time and labour it ought to be encouraged to more areas		(1) Very helful to the community- goes along way in reducing their water problems (2) The soils around the outlet should be stabilized by by planting vegetation to avoid soil getting into the dam (3) The pan should be wider in order to facilitate retention of more water thus help in ensuring water availability for a longer				(1) High level of community participation, a sign of the cooperative nature of the people of Ssandai (2) Higher level of water available possibly translating to better yields
Francis Lekitul	42	Eldume	Kailer	(1) The Muungano group is a very organized group and if it was possible women in other locations to join themselves like Muungano(2) The Enzaro jiko is very nice and every house should construct one		Rugus dam is the only one and it is very nice					
Paulina Lekesio	45	Eldume	Lukumai			Rugus pan is very important and I could like one to be put in our area					

Table Inter-Locational Monitoring tour – Upper Mukutani (Feb. 18th 2001)

Name	Age	Loc.	Sub-loc.	Improved jiko +small industry KYS Expansion of Improved jiko Eldume *How is the project* *Improved compared to* *the last monitoring tour?*	*findings(good points/points to be improved/Lessons)*	Rehabilitation of pan (Rugus) in Mukutani Location) *How is the project* *Improved compared to* *the last monitoring. tour?*	*findings(good points/points to be to be improved/Lessons)*	Food security rain-fed agr. (Partalo in Arabal Location) *How is the project* *Improved compared to* *the last monitoring. tour?*	*findings(good points/points to be to be improved/Lessons)*	Communal Resource Management Sandai Loc. *How is the project* *Improved compared to* *the last monitoring. tour?*	*findings(good points/points to be* *to be improved/Lessons)*
Johnson Kuroito	40	Mukutani	Laitapak								(1) The canal is good (2) The divertion ditch is good
John Lekoroito	28	Mukutani	Laitapak			The dam should be made deeper to hold enough water					(1) The community have done their work willingly (2) The soil dug to be removed to avoid silting the canal
Evaline	25	Mukutani	Laitapak	The women group is cooperative			The pan is not deep enough. The Rugus community are cooperative			The community of Sandai are more cooperative and they need to be encouraged	
John Seuru	30	Mukutani	Lendorok		(1) Kampi ya Samakiwomen group did a nice job by their cooperation. This is a proper way of developing a Nation. (2) Enzaro jiko well improved		(1) The pan is shallow and not wide so it needs to be deepened aand expanded to hold enough volume of water				(1) The heap of the soil around the canal be removed so as to avoid siltation during rainy season (2) Divertion box is well done in that it controls supply of water to the farms (3) Upgarding of goats especially goats is also agreat improvement because it eradicates animals with small bodies (4) The people be encouraged due to their
Annan	31	Mukutani	Laitapak							The project is improved very much compared to the other time	
Philip	27	Mukutani	Lelerai								The canal was started in 1929 by the community, later the government and now JICA have improved it a lot
Julius Losiwa	32	Mukutani	Kabikoki	The jiko is good. Kampi ya Samaki women group to work hard in their work							The main intake is good and enough to serve very large volume of water for many acres of land.
Dickson Chemongon	23	Mukutani	Lelerai		They have a big building for business which they say it is about to start						(1) Soil has to be removed at the side of canal to avoid evaporation during rainy season (2) People should stop cutting trees along the river (3) The members to raise money for repairing the Canal.
Sesno Kaichu	18	Mukutani	Ledorok		The women want to engage in income generating activites (2) So JICA assisted those women						(1) Sandai is a very good place because they have a river which can spray water to the garden and cattle dip (2) JICA did good to help them
David	27	Mukutani	Lontiani		The women building is very good						Sandai canal is very important because of the irrigation
Stephen Lekatei	40	Mukutani	Kabikoki	Jikos are well constructed	(1) Construction of the site project is good (2) Building to be complete						(1) The canal is good the way it was laid (2) Construction of intake was good to enable farmers get enough water (3) Arranging of stones along the canal is good to avoid sinking water (4) Removal of embarkment to avoid soil entering the canal (5) Complete of division boxes
Ruth Letapi	30	Mukutani	Lendorok							The canal is much improved compared to the last time when I visited	
John Kenyoke	26	Mukutani	Kabikoki		I liked the development made by the women group of Kampi						after being repaired by JICA. Also the supply of water is good because of the division gates

Table . Inter-Locational Monitoring – Ngambo/Ilngarua (Feb. 20th 2001)

Name	Age	Loc.	Sub-loc.	Improved jiko +small industry KYS Expansion of improved jiko Eldume *How is the project* *Improved compared to the last monitoring tour?*	*findings(good points/points to be improved/Lessons)*	Rehebilitation of pan (Rugus) in Mukutani Location) *How is the project* *Improved compared to the last monitoring. tour?*	*findings(good points/points to be improved/Lessons)*	Food security rain-fed agr. (Partalo in Arabal Location) *How is the project* *Improved compared to the last monitoring. tour?*	*findings(good points/points to be improved/Lessons)*	Communal Resource Management Sandai Loc. *How is the project* *Improved compared to the last monitoring. tour?*	*findings(good points/points to be to be improved/Lessons)*
Marikoko	32	Ilngarua			Firewood is economical Lean cooking mehtod	The project is very good but we want the dam to be deeper but live fence is good			Good farming method. It is easy to do		Good projects(Goats breeding, cattle dipand irrigation mehtod
Moses Lemoskany	32	Ilngarua	Longewe n			I visited Rugus pan and found it very nice but only it needs to be deepened					
Olenjaule	22	Ngambo	Loropil	(1) The improved jiko in Eldume is better than the one in Rugus (2) Their improved Cupboard was very small but fairly done	The should do the next one well. The third one is very nice	(1) I could like JICA to grow some grass and trees in the banks of the dam (2) They should be helped by fencing using a wire to prevent some wild animals like Zebras (3) JICA and the community to deepen the dam (4) The community to help themselves by watching the dam dam every day			Partalo had a rainfed agriculture project and they could have been helped by ploughing their garden using a tractor. so that the soil could be smooth and the water will drip in easily		The project was well improved
Dickson Leiro	27	Ilngarua	Ilngarua		Very good for cooking and it is economical in firewood consumption	(1) The pan to be deepened (2) The seaver to be piped to get the water in (3) Trees to be planted around the pan (4) Kikuyu grass to be planted around the inlet					Good Irrigation mathod
Richard yeiyole	48	Ngambo	Ngambo	We visited three houses with the modern jikos		The Rugus pan is very good for people and their animals		JICA introduced a good method of farming for partalo people. Only that they should keep on doing the same even after JICA		They have every good way of irrigation	
Petro Lekimariki	28	Ilngarua	Murda			The dam was started by the community and later supported by JICA			Good Agriculture	It was started in 1930's	
Tamar J	36	Ngambo	santaan			It is my first time to visit these project. There is a lot of improvement compared to the last time.					
Paul Nachoro	39	Ngambo	Sises	I saw three jikos at Eldume		The dam need to be deeper and planting of grass be done	The tank constructed for roof catchment is good	(1) The farmers had enough time though it seemed rains delayed			
Sinion Nabori	39	Ngambo	Keeper		Good for cooking because it makes work easier		(1) the dam to be dug deep (2) Planting of grass be done around the dam to hold soil (3) Trees and shrubs to be planted to hold the mud along the inlet		(1) fencing to be improved to avoid animals entering the farm (2) Proper crops which fit the area be grown (3) The soil put around the canal helps the catchment or drained of water. The crops will grow		(1) In breeding(goat keeping) good for different breeds (2) Land levelling machine helps the farmer in levelling of the farm.
Weston Lanoi	33	Ilngarua	Longewe n	Since I was not in the previous tour today I have seen well improved technology jiko and more economical in energy conservation in terms of firewood. Less time spent	It was very good work to the community	The main problem affecting the community is water. The pan needs to e dug deep so as to store enough water. It is good if the trench will be dug from the water catchment area.	It is well improved method it will benefit the community around		The rainfed agriculture by water harvesting technic is very much applicable to the area. The only efficient way is to give them some jembes to be used by donkeys and		The canal at Sandai was realy improved. I take the opportunity to thank the cooperation of Japan for their good work.
Jones Ntoror	31	Ngambo	Sintaan			This is my second time to be here and as per my observation I can see a great improvement in general from silt trap upto the main pan. I can as well see some technologies for example decantation of water and the use of shadoof to withdrow water in the tank. Generally there is a good work done whoih will help the community around.	(1) he main pan is still shalow (2) Erosion from the bank of the pan is taking place making the pan shallow but it is good that grass has been planted (3) Water is used only for drinking and animals (4) My suggestion is I could like also atechnology be used and water can also be supplied for irrigation of farms	(1) The project is doing well although sometimes rains fail (2) Sometimes rains comes for short time hence crops dry up. So if funds were there it is good fo a dam to be constructed for water catchment	Short term crops be planted and the people be educated on early land preparation	(1) This is a giant project compared to all other projects seen in Rugus, Partalo and Eldume (2) I can see that it is now complete and rain is the only problem (3) Water can be controlled easily.	Committee be formed to control water supply
John Lekepili	32	Ilngarua	Nabiki			The work is good and villagers doing good job.					

Table Inter-Locational Monitoring Tour – Kimalel/Kiserian (Feb. 27, 2001)

Name	Age	Loc.	Sub-loc.	Improved jiko +small industry KYS Expansion of improved jiko Eldume *How is the project* *Improved compared to* *the last monitoring tour?*	*findings(good points/points to* *be improved/Lessons)*	Rehabilitation of pan (Rugus) in Mukutani Location) *How is the project* *Improved compared to* *the last monitoring. tour?*	*findings(good points/points to be improved/Lessons)*	Food security rain-fed agr. (Partalo in Arabal Location) *How is the project* *Improved compared to* *the last monitoring. tour?*	*findings(good points/points to be improved/Lessons)*	Communal Resource Management Sandai Loc. *How is the project* *Improved compared to* *the last monitoring. tour?*	*findings(good points/points to be improved/Lessons)*
Egla Cherutich	22	Kimalel	Kibotandet	head in development. I hope the people have now woken up and they can continue doing other things for themselves						The Irrigation is good	
Patricia	24	Kaserian	Center	They need fence around the building and to complete the building ao as to start off.		They have made water terrace to drive water into the pan	The dam to be deepened.				The found goats, Sandai heve more improvement
Ole Kateiya	43	Kiserian	Ngairagai	The building is not opened still under construotion.	They need water tank for storage and Deep pit for burning waste.	The pan is at its completion phase. At the moment no water because no rains but we expect o be full when rains start.				A well designed water canal	The source of water river Wasekes is a seasonal river hence farmers may need an alternaltive source of supply during dry season
William Chesaro	30	Kimalel	Kiwanjandeg e	The constrution of the building is good only that finishing is not yet.		Thanks to JICA and the community of Rugus for their cooperation.				The project here is good	
William Kiplagat	42	Kimalel	Koikoi	It is a good start for the women because even after JICA leaves they will easily get a donor.						The work done is good but we could still expect JICA to extend the canal until it covers all the farmers but because they are leaving the community of Sandai to continue with their work.	
Reuben Laktano	28	Kimalel	Kapketuny	A call box for making a phone is needed		The community did a lot of work with the cooperation of JICA only that the community to deepen the				JICA assisted in the lining of the canal and gate an the community provided labour	
William Chelal	37	Kimalel	Kapkun	The building was not their during my previous visit	Good cooperation wthin the group members. Extend the same to other people.	The pan has completely been fenced and the silt trap has been construoted also the pipeline	Cattle trough oostructed			Proper utilization of available resources to increase productivity	
David Lingisoi	33	Kiserian	Lorrok	Good project wich will bring good funds for the women	They should be united for the project to continue		(1) The pan was looated at the right site to help the community (2) The sam is small and the soil seem to go back to the dam hence needs continious desilting. The pipes leading to the filtering system is good				Channels are good, it realy boasted the local area. Good harvest have been realized last year despite short rains. Stones to be removed from the channels.
Lina Chesire	39	Kimalel	Komarir		building is good (2) Some chairs have been arranged (3) Fencing have not been completed (4) Fence should have been fenced with posts and link chain (5) They should have planted trees around to bring good air	(1) Fencing is finished (2) Cattle trough has been constructed (3) The water pan is almost to be completed (4) Main pipe taking water outside the pan has been put and planting of grass tried .	(1) the community will have clean water and not travel long distance (2) The animals will have enough time to rest			(1) Soil has controlled in the canal (2) Farmers have harvested good yield (3) Water supply is better than before (4) Main gate and control gate have been made. The river has tried	
Laban Tengecha	23	Kimalel	Kapkun	(1)They have to make products of hih quality (2) Should make arrangements to encourage more visitors (3) They will get more income in future		assisted the a lot and it is our believe that the community will continue to develop themselves now and the future. They should also look for other donors in future.				Sandai community can improve if they will take care of the water trainage. The water is used for irrigation, cattle dip. In future they will harvest in the future if there will be heavy rains.	

Table Inter-Location Monitoring Tour - Marigat (Feb. 28, 2001)

Name	Age	Loc.	Sub-loc.	Improved jiko +small industry KYS Expansion of improved jiko Eldume *How is the project Improved compared to the last monitoring tour?*	*findings(good points/points to be improved/Lessons)*	Rehabilitation of pan (Rugus) in Mukutani Location) *How is the project Improved compared to the last monitoring tour?*	*findings(good points/points to be improved/Lessons)*	Food security rain-fed agr. (Partalo in Arabal Location) *How is the project Improved compared to the last monitoring tour?*	*findings(good points/points to be improved/Lessons)*	Communal Resource Management Sandai Loc. *How is the project Improved compared to the last monitoring tour?*	*findings(good points/points to be improved/Lessons)*
Nachson Obai	45	Marigat	Marigat	The project will uplift the standard of small scale industry through networking	The JICA Team should train small-scale industry all over the country through one example of these project. I have been interested with the plan of this project		which has been done to the community atleast individuals should try to dig more plans using the same skills which they have been taught by the JICA Team. It is a simple method than the community than the community to depend on the government to do for them everything. JICA Team have done a good work for the community hence it is upon the community now to continue with the projects when JICA leaves.			The JICA team projects have uplifted the standard of the community of new technology towards irrigation scheme. The community therefore should cooperate and continue with the works.	
Mariamu	26	Eldume	Kailer	The jiko was well done. Kampi Ya Samaki Muungano women group building was put at the the right site for customers to reach.	To continue to teach others in the community to minimize firewood. Muungano group to install wiring to the project and		Digging of pans to be increased and be done in other areas also			The canal was well done and better to fence around he canal	
Susan Chemuge	31	Marigat	Marigat	These kind of jiko uses less firewood hence reduces cutting down of many trees.		The community to increase digging of the pan so as to hold more water.				The work done in the canal was very good because everything went on good so we thank the JICA Study Team for their assistance. The community to be responsible for the rest of the	
Christoper Muge	32	Marigat	KARI	First time to visit this women group development site	(1) The building is very interesting hope will earn them a lot in future (2) The rooms need a lot of care and proper use (3) The business to be operated should be marketable (4) The compound of the building should be fenced. In general I take this opportunity to thank JICA for various technology introduced including the	It is my first time to visit the Rugus pan				A lot of work has been done which needs congatulations to JICA support fo the irrigation site.	(1) Because all over the country especially arid areas, there is no rain at the moment and I hope during rainy season the community of these area Sandai will increase their yield compared with the first time
David Tutuna	40	Marigat	MYP		The building need to e equipped and business to start.	The dam is still shalow hence community to work on it.				JICA has done their part only that now the community to do something on the remaining part	(1) Good work and the canal need to be clean (2) Storage tank to be built.
Noah Cheboiywo	51	Marigat	Town C		Good work done at the building site by JICA		The request is more digging of the pan to allow more water				The irrigation system will benefit the Sandai community now and in the future
Mike Kiptemoi	27	Marigat	Rabai	The jiko is very good and infact making work easier for women. We thank the government of Japan through JICA for their assistance		It is my first time to visit Rugus. The water pan is good nut only during try season thje people have troubles. We thank JICA for their cooperation	The dam need to be deepened			JICA helped in the digging of the canal and inatallatio of gates which now makes water to be controlled easily.	
Walter Otara	27	Marigat	Marigat		The project is good for other women will start learning how to make their own groups	The project will save the community from travelling for a long dictance looking for water.				Gates are well made. Mud from the canal be removed	
Christine Mengich	28	Marigat	Marigat	Muungano women group will have a better future because they have been given a good start by JICA.	It is my first time to see the jikoe	It is my first time to tioh Rugus, actaully this place is a desert and they could be given a borehole instead of a				The Irrigation system has improved.	
Benard Orieny	26	Marigat	Marigat	They have better plans which will assist them to develop	The compoynd to be fenced	I so impressed by the JICA and the community members	The lesson I have learnt is that people can use their local resources for improvement of their lifes.			The canal at Sandai is very good also lined by cement. The water gates are well made and now assisting the community very well.	

VI. ENZARO JIKO

Summary of Improved Jiko (Enzaro Jiko) as of September 15, 2001

Location	Name	Family Members	Date Constructed	Duration/Bundle-Firewood		Breakfast Cooking Time		Supper Cooking Time		Attendance			Remarks
				with 3-stones	with Enzaro Jiko	with 3-stones	with Enzaro Jiko	with 3-stones	with Enzaro Jiko	JICA/GOK	1st Expert	2nd Expert	
Salabani	Grace Lempakany	12 (4A, 8C)	April 13, 2000	1.5 days	3 days			45 min	25-30 min	○			teacher, husband is sub-chief
	Sarah Kampara	12 (5A, 7C)	April 14, 2000	3 days	1 week	long	15 min	1 hour	45 min	○			soldier, tailoring
	Merry Chebii	7 (1A, 6C)	April 14, 2000	1.5 days	1 week					○			iron sheet house
	Teresia Owuari	9 (2A, 7C)	April 14, 2000	2-3 days	1 week			2 hours	30 min	○			Kiosk owner
	Ann Kiptala	6 (2A, 4C)	April 15, 2000	4 days	1 week	1 hour	15 min	1 hour	15 min	○			husband not employed
	Agnes Lekiseku	12 (3A, 9C)	Mid April, 2000	2 days	4 days	2 hours	1 hour	3 hours	2 hours	by themselves (3 persons)			husband not employed
	Cecelia Munyesi	absent	April 17, 2000							○			iron sheet house
	Annah Etipu	10 (2A, 8C)	April 18, 2000	3 days	1 week					○			husband not employed
	Jeniffer Ngochila	10 (4A, 6C)	May 6, 2000	not in use because of crack taken place due to no maintenance (water is very hard to get in this area)							○		husband is a DO
	Catherine Koipiri	5 (2A, 3C)	May 13, 2000	1 week	3 week	40 min	20 min	40-50 min	20 min		○		iron sheet house
	Jeniffer Limo	7 (2A, 5C)	May 14, 2000	3 days	1 week					○	○		husband is a policeman
	Caroline Noah	3 (2A, 1C)	Late May, 2000	1 week	2.5 week	returnd back to 3 stones (?)		1.5 hours	30 min		○		husband working in Block htl
	Margret Eyapan	12 (4A, 8C)	June 5, 2000	4 days	1 week	45-60 min	30 min	2 hours	30 min		○		husband employed
	Adijah Bashir	7 (5A, 2C)	Mid July, 2000	1 week	over 3 week			1-2 hours	30 min	by themselves			iron sheet house
	Jecinta Edapal	8 (2A, 6C)	Late June, 2000	2 days	4 days	45 min	30 min	1.5 hours	1 hour		○		Kiosk owner
	Christine Komoris	9 (2A, 7C)	Late July, 2000	1 week	2 week	30 min	15 min	45 min	30 min		○		Kiosk owner
	Jane Cherimo	5 (2A, 3C)	Late July, 2000	1 week	2 week	1 hour	< 30 min	1 hour	< 30 min	by themselves (3 persons)			husband is headmaster
	Damaris Chorichoria	5 (2A, 3C)	July 31, 2000	2 days	1 week	5 min	3 min	4 hours	3 min		○		husband working in Block htl
	Christine Chebii	9 (2A, 7C)	Mid August, 2000								○		iron sheet house
	Maria Kajos		Mid August, 2000									○	iron sheet house
	Stella Mengich	4 (1A, 3C)	August, 19, 2000	1 week	2 week			1 hour	30 min		○	○	iron sheet house
	Rael Cherimo		Late August, 2000								○		husband not employed
	Agnes Lesiangiki	5 (3A, 2C)	Late August, 2000	1 week	2 week			1 hour	30 min		○	○	husband working in a hotel
	Maria Kiseku		September 1, 2000	demolished and soon will be constructing small size Jiko applicable to her kitchen								○	husband is a merchant
	Annah Chepkongo	3 (2A, 1C)	Mid September, 2000	3 days	1 week	1 hour	5 min	1 hour	30 min		○		husband working in a hotel
	Sate Chebor	10 (6A, 4C)	Late September	2-3 days	1 week	2 hours	30 min	1-2 hours	30 min		○		husband not employed
Sub Total	26												
Sandai	Helen Kibon	3 (1A, 2C)	August 25, 2000	3 days	12 days	first Jiko in July and rectified		1.5 hours	20 min	○			selling vegetables
	Elena Kandie	14 (6A, 8C)	August 25, 2000	4 days	2 weeks			2.5 hours	1 hour	○			husband is councilor
	Irene Chemora	6 (2A, 4C)	September 4, 2000	3 days	2 weeks	Not in use as of Sep, 2001		2 hours	30 min			○	iron sheet house
	Velonica Chepkuto	9 (4A, 5C)	Early September, 2000	3 days	1 week	two fireplaces Jiko		1.4 hours	30 min			○	traditional hut house
	Lina Chepkuto	8 (3A, 5C)	Mid September, 2000	2 days	1 week			1.5 hours	30 min			○	iron sheet house
	Line Kiptech	10 (4A 6C)	November 11, 2000							by themselves			husband is WUA chairman
	Estha Tenges	7 (2A 5C)	November, 2000							by herself			
	Salina Bokuria	6 (2A 4C)	November, 2000	2 days	1 week	Suspended the use b/c of sham		1 hour	30 min			○	
	Salina Wendot	8 (2A 6C)	November, 2000	3 days	2 weeks					by herself			
	Hanjarine Rutto	6 (2A 4C)	December, 2000	already demolished since it did not work well (the fireplace was along the 3 holes, different design)						by themselves			
	Carolyne Tenges	5 (3A 2C)	December, 2000							by themselves			
	Christine Lekesio	8 (4A 4C)	December, 2000							by themselves			
	Lucy Kiptai	5 (2A 3C)	December, 2000	2 days	1 week			2 hours	30 min			○	
	Rosa Solit	8 (2A 6C)	December, 2000	3 days	1 week			1 hour	30 min			○	
	Rodah Kangogo	7 (2A 5C)	January, 2001	2 days	1 week	Demolished b/c soon to new kit		1 hour	30 min	by themselves			
	Miriam Bokuria	9 (2A 7C)	March, 2001	2 days	2 weeks	Suspended the use b/c of sham		45 min	15 min			○	
	Margaret Kibet	5 (2A 3C)	March, 2001	already demolished since it gave much smoke								○	
sub total	17												
Kimarel	Margaret Silma	9 (3A, 6C)	June, 2000	2 days	5 days			1 hour	30 min	○	fr Kampi		Kiosk owner, husband is headmaster
	Christine Romenya	10 (2A, 8C)	July 5, 2000	1 day	3 days			3 hours	1 hour	○	fr Kampi		teacher, husband is sub-chief
	Estha Paul	9 (2A, 7C)	July 26, 2000	2 days	1 week			1 hour	30 min	○	fr Kampi		husband employed
	Lina Cherop	10 (4A, 6C)	Mid August, 2000	3 days	1 week			1-1.5 hours	30 min		○		husband is policeman
	Estha Kochil	9 (2A, 7C)	September 20, 2000	5 days	1 week			2 hours	1 hour	by themselves			husband is teacher
	Pauline Kochil	3 (1A, 2C)	October 27, 2000							by themselves			husband is employed
	Estha Joseph	7 (2A 5C)	Early November, 2000	located on top of a hill and not visited						by themselves			
	Christine Kangogo	8 (2A 6C)	November 15, 2000	3 days	1 week	not in use b/c it gave much smoke.				by themselves			husband is counselor
	Susan Chemurmur		December, 2000							by themselves			
	Grace Bett		December, 2000							by herself			
Sub Total	10												
Eldume	Caroline Nakure	8 (2A, 6C)	July 3, 2000	2 days	1 week	30 min	10 min	1 hour	15-20 min	by themselves			husband is not employed

Summary of Improved Jiko (Enzaro Jiko) as of September 15, 2001

Location	Name	Family Members	Date Constructed	Duration/Bundle-Firewood		Breakfast Cooking Time		Supper Cooking Time		Attendance			Remarks
				with 3-stones	with Enzaro Jiko	with 3-stones	with Enzaro Jiko	with 3-stones	with Enzaro Jiko	JICA/GOK	1st Expert	2nd Expert	
	Pauline Lekesio	17 (6A, 11C)	July 4, 2000	2 days	1 week	20 min	< 10 min	1 hour	20 min		by themselves		
	Anna Longei	6 (2A, 4C)	July 6, 2000	3 days	2 weeks	2 hours	10 min	3 hours	25 min		by themselves		
	Salina Lekesio	6 (2A, 4C)	July 10, 2000	2 days	1 week	20 min	< 10 min	1 hour	15-20 min		by themselves		
	Margret Saningo	8 (2A, 6C)	July 10, 2000	2 days	1 week			1 hour	15-20 min		by themselves		
	Suan Lekesio		July, 2000								by themselves		
	Nachaki Sululia		July, 2000								by themselves		iron sheet house
	Joice Sauloki	8 (2A, 6C)	July, 2000	2 days	1 week	20 min	15 min	1 hour	20 min		by themselves		
	Joice Sauloki	small Jiko for her children									by herself		
	On October 5, GOK officer Ms. Loice held a seminar of the Enzaro Jiko.												
	Nasieku Lekesio	2 (1A, 1C)	Early October, 2000	2 days	1 week	long time	quick	1.5 hours	20 min		by themselves		
	Anna Sekeu	10 (3A, 7 C)	October 12, 2000	2 days	1 week	1 hour	10 min	long time	20 min	○			
	Nyokapi Longaga	8 (2A, 6C)	October 13, 2000	1 week	3 week	constructed by her and her husband only					by themselves		
	Esleen Hindi		November 11, 2000								by themselves		
	Emily Sululia	5 (2A 3C)	November 14, 2000								by themselves		
	Emily Lekichap	10 (3A, 7 C)	November, 2000	Demolished because soon to construct a new kitchen							by themselves		
	Christine Sauroki	10 (6A 4C)	May, 2001	4 days	2 weeks	two fireplaces Jiko					by themselves		
	Margaret Suluria	8 (2A, 6C)	June, 2001								by themselves		
Sub Total	17												
Arabal	Sogome Chebon	10 (2A 8C)	November, 2000	2 days	1 week			reduced to about half.			by herself		
(Partalo)	Tarko Cheptalam		November, 2000								by herself		
	?		November, 2000	already demolished because it gave much smoke and not well functioned							by herself		
Sub Total	3												
Kapkuikui	Jane Cheritechi	4 (2A 2C)	Mid November, 2000							○			
	Lina Kemei		December, 2000								by herself		
sub total	2												
Kiserian	Rosemary Nakuro	18 (4A 14C)	November 23, 2000	4 days	7days			1 hour	30 min	○			The chief's wife
	Pauline Nakuro	5 (2A 3C)	May, 2001								by themselves		7 women participated
	Christine Lewotachum		June, 2001	There used to be the Jiko in old house and she is going to construct new one in the new kitchen (a							by themselves		
	Jennifer Lekosik		July, 2001								by themselves		
	Pracsides Lesiangiki		July, 2001								by themselves		
sub total	5												
Mukutani	Ann Kachati	U. Mukutani	November 24, 2000							○			The chief's wife
	Eveline Lotome	U. Mukutani	November 24, 2000							○			small size Jiko
	Nancy Lenaso	Rugus	February, 2001	3 days	7 days						by themselves		9 family members (5 adults)
	Nalangu Lemukut	Rugus	February, 2001								by themselves		
sub total	4												
Ngambo	Mary Lekakimon	6 (2A 4C)	September 5, 2001	4 days	7 days			about 70% reduced					
sub total	1												
Marigat	MYP		July 24, 2000	Not in use now b/c there are only 2 boarding female students, and their source pan does not fit in t						○			
	Elima		November, 2000							○			
sub total	2												
G. total	87												

Grand total as of September 15, 2001= 87

4 : Not in use b/c of maintenance difficulty (water availability)

5 : Not in use b/c of technical error (mostly demolished)

2 : Use suspended due to poor maintenance caused by much shamba work

3 : Use suspended due to migration or now under new kitchen construction

Summary of Assessment on Enzaro Jiko as of September 15, 2001

No	Name	Date Constr'd Jiko Gener'n	Family Members	Firew'd cons'n per bundle	Cooking Time (supper)	Remarks
Salabani Location						
Meisori sub-lation (Grace area) Salina Lempakany is delegated as the expert by Grace						
1	Grace Lempakany	Apr.13, 2000	12 (6 adults)	1-1.5 days 3 days	1 hour 30 min	Attended by Louise.
2	Ann Kiptala	Apr. 15, 2000	6 (2 adults)	4 days 7 days	1 hour 15 min.	18 women participated in the construction. Maintenance done once a week. Water is from a pan nearby but remains only 5 months a year. Distance between center and right holes is wider than standard.
3	Agnes Lekiseku	Apr., 2000	12 (3 adults)	2 days 4 days	3 hours 2 hours	Constructed by her and 2 children only after seeing Ann's Jiko. Maintenance done once a week and requires about 5 litter water.
4	Chatherine Koipiri	May 13, 2000	5 (2 adults)	7 days 21 days	1 hour 30 min.	Maintenance done once every 3 days. Water from the pan, taking about 1 hour during wet season, and goes to lake during dry season taking 2 hours.
5	Jeniffer Ngochila	July, 2000	10 (4 adults)	reduced to about half.		Wife of Gilgil DO. She stopped using in late October since maintenance is very difficult due to water scarcity in this area. Fetching water takes about 3-4 hours at the Lake. Finally demolished in June, 2001.
6	Agnes Lesiangiki	Aug. 2, 2000	5 (3 adults)	7 days 14 days	1 hour 30 min.	She collected stones but too little for the construction. Maintenance done 3 times a month.
7	Maria Kajos	Aug., 2000				She did nothing for the preparation of construction (6 women participated). The Jiko is not in use as of September 2000 b/c it gave lots of smoke since the hole is very shallow.
8	Stela Memgich	Aug. 19, 2000	4 (1 adult)	7 days 14 days	1 hour 30 min.	She did nothing for the preparation of construction. Maintenance done once in every 2 weeks. Demolished on Sep. 5, 2001 because going to construct new one (smaller one).
9	Maria Kiseku	Sep 1, 2000	14 (7 adults)	2 days 7 days	1 hour 30 min.	Constructed by 3 women (Sick when we visited on November, 2000). Still in uses as of Sep., 2001.
This area is very much suffering from water shortage, so that the dissemination of Jiko is not well done than expected. A pan is available but same people living very far and going to the Lake requires as much as 4 hours for both the ways.						
Kampi ya Samaki						
Turkana Village						
1	Annah Etip	Apr. 14, 2000	10 (2 adults)	3 days 7 week	Reduced to about half	Maintenance done once a week.
2	Margret Eyapan	July 5, 2000	12 (4 adults)	4 days 7 days	2 hours 30 min.	Maintenance done 3 times a week.

3	Damaris Chorichoria	July 31, 2000	5 (2 adults)	2 days 7 days	4 hours 30 min.	Saved time devoted in cleaning children, mopping house, cleaning cloths, taking rest. Maintenance done twice a week.
Town (Samaki)						
4	Cecelia Munyesi	Apr. 7, 2000				
5	Teresia Owuari	Apr. 13, 2000	9 (2 adults)	2-3 days 7 days	2 hours 30 min.	Back-ache has disappeared with the Jiko (did not realize the ache came from bending during cooking w/ 3 stones Jiko). Her size, 96 Kg weight, used to make difficult to cook while sitting/bending.
6	Jecinta Edapal	Jun., 2000	8 (2 adults)	2 days 4 days	1.5 hours 1 hour	At the end of the town (Kiosk owner). Once to twice maintenance a month (3 days is not in use after the maintenance). She migrated and now on 3-stones as of Sep., 2001 (has intention to construct again).
Kapsoi Village						
7	Christine Komoris	July, 2000	9 (2 adults)	7 days 14 days	45 min. 30 min.	Shop (kiosk) owner (not much cooperative). Maintenance done once every 2 weeks.
8	Sote Chebor	Mid Sep, 2000	10 (4 adults)	2-3 days 7 days	1-2 hours 30 min.	3 women participated in the construction incl. Rose. After supper, roasting fishes by using the save time. Once a week smearing.
9	Annah Chepkonga	Mid Sep, 2000	3 (2 adults)	3 days 7 days	1 hour 30 min.	Located at behind the main road. The husband is working in a hotel in Sambur. Twice a week maintenance. Still very good condition in use as of Sep., 2001.
Kapkirwork B Village						
10	Merry Chebii	Apr. 14, 2000				Requested cement to reinforce the fireplace. The soil is silty so that requires a lot of maintenance. A steel stick was in the fireplace to support suflia as of Nov., 2000.
11	Sarah Kampara	Apr. 14, 2000	12 (5 adults)	3 days 7 days	1 hour 45 min.	Tailor and the husband is a soldier. Maintenance done once every 2 weeks.
12	Jeniffer Limo	May, 2000	7 (2 adults)	3 days 7 days		Cracking very much after no maintenance for 1.5 months. She buys firewood and roasts fishes for selling. The husband is policeman.
13	Rael Chelimo	Aug., 2000				Rose was paid about 100-200ksh for the construction.
Kipkimbirwo Village						
14	Caroline Noah	Lat.May, 2000	3 (2 adults)	7 days 17 days	1.5 hours 30 min.	Located at the end of hill side. More roasting fishes b/c of saved time. 200ksh paid to Marta for the construction. Maintenance done once every two week. Observed that returned to 3 stones as of Sep., 2001.
Ngenyin Village						
15	Jane Cherimo	July, 2000	5 (2 adults)	7 days 14 days	1 hour 30 min.	Maintenance done once a week. The husband is headmaster of a primary school.

16	Christine Chebii	Aug., 2000	9 (2 adults)			Interviewed to the child. Rose was paid 50ksh for the construction.
Mnanda Village						
17	Adijah Bashir	July 23, 2000	7 (5 adults)	7 days 21 days	1-2 hours 30 min.	Located beside road to town. Firstly, constructed by herself and rectified by Rose (paid 50ksh).
Sandai Location						
1	Helen Kibon	Aug., 2000	3 (1 adult)	3 days 12 days	1 hour 20 min.	She constructed by herself alone after tour to Kituwi, but not well worked. Then Louise came to rectify the Jiko.
2	Elena Kandie	Aug., 2000	14 (6 adults)	4 days 14 days	2-2.5 hours 1 hour	Once a week maintenance required. 3 stone Jiko still used when the firewood is very big like log. No back pain with the Jiko.
3	Lina Chepkuto	Sep., 2000	8 (3 adluts)	2 days 7 days	1.75 hours 30 min.	Back pain disappeared.
4	Velonica Chepkuto	Sep, 2000	9 (4 adluts)			5 women participated (11-12:00). 2 fire places Jiko. Fewer accidents for this Jiko.
5	Iren Chemona	Sep., 2000	6 (2 adults)	2-3 days 14 days	2 hours 30 min.	Constructed by 5 women. Back pain disappeared. Not in use as of September, 2001. Not known of the reason b/c of her absent.
6	Lina Kiptech	Nov., 2000	10 (4 adults)			
7	Estha Tenges	Nov., 2000	7 (2 adults)			Absent so neighbor interviewed. Took from 10 to 15:00 to construct by herself alone.
8	Salina Bokuria	Nov., 2000	6 (2 adults)	2 days 7 days	1 hour 30 min.	Not in use as of September 9, 2001. It was stooped using since July because she became so busy due to farming (will repair after harvesting). Twice a week maintenance is required to keep well.
9	Salina Wendot	Nov., 2000	8 (2 adluts)	3 days 14 days		One cooking place, devised by herself.
10	Hanjarine Rutto	Dec., 2000	6 (2 adults)			Once constructed but now demolished since it did not work well (the fireplace was along 3 holes, different design).
11	Carolyne Tenges	Dec., 2000	5 (3 adults)			
12	Christine Lekesio	Dec., 2000	8 (4 adults)			
13	Lucy Kiptai	Dec., 2000	5 (2 adults)	2 days 7 days	2 hours 30 min.	Maintained twice a week. Enzaro smokes when 3 places are in use simultaneously, so that chimney is required.
14	Rosa Solit	Dec., 2000	8 (2 adults)	3 days 7 days	1 hour 30 min.	2 cooking places Jiko. It smokes when the two places are in use simultaneously. Helen got a pamphlet when toured to Kituwi and made the 2 places Jiko for her.

15	Rodah Kangogo	Jan., 2001	7 (2 adults)	2 days 7 days	1 hour 15 – 30 min.	The Jiko was demolished in July, 2001 because she will soon be constructing new kitchen house. She made an outlet to release smoke (but now no seen b/c demolished)
16	Miriam Bokuria	Mar., 2001	9 (2 adults)	2 days 14 days	45 min. 15 min.	Not in use as of September 9, 2001. She could not maintain due to farming and stooped using it since July. Twice a week maintenance is required (15 min. to maintain after colleting material). 3 stone Jiko can use big and irregular firewood but Enzaro needs somewhat neat firewood.
17	Margaret Kibet	Mar., 2001	5 (2 adults)			The Enzaro Jiko was demolished since it gave a lot of smoke and not well lightened.
Kimarel Location						
1	Margaret Silma	June 7, 2000	9 (3adults)	5 days 2 days	1 hour 30 min	Jiko expert
2	Christine Romenya	July 5, 2000	10 (2 adults)	1 day 3 days	3 hour 1 hour	Jiko Expert
3	Lina Cherop	July 31, 2000	6 (3adults)	3 days 6 days	Up to 1.5 hours 30 min	Margaret attended during the construction, and Louise no.
4	Estha Paul	Aug. 9, 2000	9 (2 adults)	2 days 7 days	1 hour 30 min.	The eldest daughter (12) interviewed
5	Estha Kochil	Sep. 20, 2000	9 (2 adults)	3.5 days 5 days	2 hours 1 hour	Back pain disappeared.
6	Pauline Kochil	Oct. 27, 2000	4 (3 adults)	3 days 6 days	Reduced to about half	3 stone Jiko is still used to warm food after Enzaro.
7	Estha Joseph	Nov., 2000	7 (2 adults)			Top on hill (not interviewed)
8	Christine Kangogo	Nov. 15, 2000	8 (2 adults)	3-4 days	1 hour	Not in use as of Sep. 8, 2001 because of lots of smoke when it was opened (the kitchen is small so that not enough space to release smoke).
9	Susan Chemurmur	Dec., 2000				
10	Grace Bett	Dec., 2000	9 (2 adults)			
Interview to the husband of Christine Romenya why Jiko not diffused so much: Because they want to improve kitchen house and then to install the Enzaro Jiko. Interview to Pauline Kochil: Farming became very busy after November last year so that the Jiko construction almost ceased.						
Eldume Location						
1	Caroline Nakure	July 3, 2000	8 (2 adults)	2 days 7 days	1 hour 20 min.	Training was done by Louise on Oct. 5, 2000 after her own trial construction. She goes to Church since it saves time. Children became not be late on school.
2	Pauline	July 4, 2000	17 (6 adults)	2 days	1 hour	Big suflia is used so that it saves time much. She adopted Turkana boy.

	Lekesio			14 days	20 min.	Construction started at 10 and ended at 18:00 with only two women.
3	Anna Longei	July 6, 2000	6 (2 adults)	3 days 14 days	3 hours 25 min.	Constructed by only two women (8-15:00). She has old mother and has to start cooking very early. Maintenance done once in every 3 weeks.
4	Salina Lekesio	July 10, 2000	6 (2 adults)	2 days 7 days	1 hour 20 min.	Saved time is invested for shamba, livestock, fetching water. Children is no longer get late to school.
5	Margret Saningo	July 10, 2000	8 (2 adults)	2 days 7 days	1 hour 20 min.	Merisa Oroki, the neighbor, constructed this Jiko right after a tour provided by the Team. Maintenance is done once in every 2 weeks.
6	Susan Lekesio	July, 2000				Passed away.
7	Nachaki Sululia	July, 2000				Absent. Living in iron sheet house (the husband is trader).
8, 9	Joice Sauloki	July, 2000	8 (2 adults)	2 days 7 week	1 hour 20 min.	She has two Jiko, and one is for children having two holes. Saves time so that children get school earlier (used to be late once a week). Maintenance done once a week.
10	Nasieku Lekesio	Oct., 2000	2 (1 adult)	2 days 7 days	1.5 hours 20 min.	She is old and takes rest thanks to the saved time on Jiko. Maintenance is done once a week.
11	Anna Sekeu	Oct. 12, 2000	10 (3 adults)	2 days 7 week	More than 1 h 20 min.	Wife of Eldume Chief. Louise attended in this construction (only this in Eldume). Maintenance done every 3 – 4 days. A cupboard constructed on Oct. 24, 2000.
12	Nyokapi Longaga	Oct. 13, 2000	8 (2 adults)	7 days 21 days		Twice a week maintenance. This was constructed by her and her husband only (9-14:00). The soil is not from ant hills but just ordinary soil.
13	Esleen Hindi	Nov.11, 2000				Not yet opened at the time of interview on Nov. 14, 2000. As of September, 2001, it is in use though the maintenance not well.
14	Emily Sululia	Nov. 14, 2000	5 (2 adults)			
15	Emily Lekichap	Nov., 2000	10 (3 adults)			Demolished in September 12, 2001 because she is going to construct a new house.
16	Christine Sauroki	May, 2001	10 (6 adults)	3-4 days 14 days	2 hours 40 min.	Two fire places (never seen other two fire places Jiko), and she has intension to construct the third fireplace later. Maintenance done once every two week.
17	Margaret Suluria	June, 2001	8 (2 adults)			
Partalo (Arabal Location)						
1	Sogome Chebon	Nov., 2000	10 (2 adults)	2 days 7 days	Reduced to about half.	3 stone Jiko is still in use because it can retain charcoal over night unlike Enzaro. They need to keep fire because they are poor and don't

						have matches and to keep animals away during night.
2	Tarko Cheptalam	Nov., 2000				
3	?	Nov. 2001				Constructed but demolished b/c not much effective, giving a lot of smoke.
Kapkuikui Location						
1	Jane Cheritechi	Nov., 2000	4 (2 adults)			Living in the compound of ass. Chief.
2	Lina Kemei	Dec. 2000				Participated in the Jane's construction and started by herself.
Kiserian Location						
1	Rosemary Nakure	Nov., 2000	18 (4 adults)	4 days 7 days	1 hour 30 min.	Once per week maintenance. Enzaro Jiko cannot use big firewood so that 3 stone is still used in case. No women came to her despite she can make the Jiko (trained by Louise).
2	Pauline Nakuro	May 2001	5 (2 adults)			Once every two-week maintenance. 7 women participated in the construction. Interview was made to the husband.
3	Christine Lewotachum	June 2001				There used to be the Jiko in old house. But the present new house has not yet had the Enzaro. She was absent and could not confirm if she will make.
4	Jennifer Lekosik	Aug., 2001				
5	Pracsides Lesiangiki	Aug., 2001				
Upper Mukutani (Mukutani Location)						
1	Ann Kachati	Nov., 2000				Constructed by Louise.
2	Eveline Lotome	Nov., 2000				Constructed by Louise. Small size Jiko.
Rugus (Mukutani Location)						
1	Nancy Lenaso	Feb. 2001	9 (5 adults)	3 days 7 days		5 women participated in the construction. Heavy rain in August 2001 demolished her house together with the Jiko.
2	Nalangu Lemukut	Feb. 2001				Still in use.
Ngambo Location						
1	Mary Lekakimon	Sep. 5, 2001	6 (2 adults)	3-4 days 7 days	About 70% time reduced.	She constructed small one early year 2001, and this is the 2nd one. (a primary school teacher and the husband is also teacher). She visited a friend in Eldume and enlightened to construct by herself.
Marigat Town						

1	MYP	July 24, 2000				Stopped used soon after the commission because of only 2 – 3 users.
2	Elima	Nov., 2000				

Ⅶ. PARTICIPATORY IRRIGATION MANAGEMENT

Sandai Irrigation Scheme Acreage by Canal

1)	CANAL: Sokoteiwa		
	NAME	AREAGE	REMARKS
1	Jackson wendot	1.0	
2	Timon Chebon	4.0	
3	Kimosop Chebii	2.0	
4	Machael Yator	4.0	
5	Philemon Rotich	1.5	
6	Francis Kimosop	1.5	
7	Francis Mitei	1.0	
8	Kimoi Losiwa	1.0	
9	Rael Kipteroi	1.5	
10	Jeremia Chebii	1.5	
11	Stanley Yator	2.0	
12	Joseph Chebii	2.0	
13	John Chebii	4.0	
14	John Rutoo	2.0	
15	Ronald Kaibos	2.0	
16	John Chemosong	2.0	
17	William Chebii	3.0	
18	Samuel Chebii	1.0	
19	Jimmy lochomoi	1.0	
20	john cheruiyot	1.0	
21	Jonathan Chebii	5.0	
22	Charles komen	1.0	
23	Fredrick Rutto	3.0	
24	Wilson Kimunyany	2.0	
25	Siliano Kipkech	1.0	
26	Joseph Tanui	5.0	
27	Wilson Kipkinoi	4.0	
28	Ronald Chebii	2.0	
29	Tarkok Rutto	1.0	
30	Geofrey Kaibos	3.0	
31	david Chebet	4.0	
32	Paul Chemjor	1.5	
33	Joseph Rotich	2.0	
34	Kipsoi Chepkonga	1.0	
35	Nicholas Rutto	2.0	
36	josepk Cheruiyot	1.0	
37	Wesly Rutto	1.0	
38	Philip Yator	2.0	
39	Macheal Cepkuto	2.0	
40	Samuel Kangogo	3.0	
41	David Kangogo	4.0	
42	Hilary Kimunyan	1.0	
43	Barnaba Kiptoo	2.0	
44	Joel Cheboi	3.0	
45	Joseph Kangogo	3.0	
46	Joseph Kimunyan	4.0	
47	James Chemjor	2.0	
48	Chemjor Wendot	2.0	
49	David Rutto	2.0	
50	Vincent Kimosop	2.0	
	Total	110.5	

2)	CANAL : MOKOKWO		
	NAME	AREAGE	REMARKS
1	Jackon Wendot	5.0	
2	John chebotibin	4.0	
3	Joel Kibet	2.0	
4	Hentry Chebotibin	6.0	
5	Jacson chebotibin	2.0	
6	Joseph Chepyegon	2.0	
7	Jackson Yegon	1.0	
8	Machael yegon	3.0	
9	Jeremia Kibon	2.0	
10	Richard Chebotibin	2.0	
11	Paul chemjor	2.0	
12	David Menotano	3.0	
13	Zakayo Kibet	4.0	
14	Wesley Kibet	3.0	
15	Kimoi Chirchir	1.0	
16	john Kiptek	10.0	
17	Jane Kitilit	2.0	
18	Charles Komen	2.0	
19	Nyeboko Komen	1.0	
20	Daniel Kiptek	4.0	
21	Samuel Komen	3.0	
22	david Bogoria	4.0	
23	John Bogoria	3.0	
24	James Bogoria	2.0	
25	Peter Changole	3.0	
26	Jackson Chebochboch	1.5	
27	Ezekiel Chebochboch	1.0	
28	Wesly Mahindi	2.0	
29	Wilson Chebotibin	3.0	
30	Ronald Kiptek	3.0	
31	Wilson Tinga	6.0	
32	Joseph Komen	2.0	
	Total	94.5	

3)	CANAL:TEMBERWE		
	NAME	AREAGE	REMARKS
1	Joseph Chepngoswo	3.0	
2	Chepngoswo sangut	4.0	
3	samuel Chepngoswo	2.0	
4	Richard chepngoswo	2.0	
5	Philip Cheptokoch	2.0	
6	Paul Chepngoswo	1.0	
7	Joseph Chebon	2.0	
8	Richard chebon	2.0	
9	Peter Kitilit	3.0	
10	Elija kurgat	2.0	
11	John Kurgat	2.0	
12	Charles Cheang	2.0	
13	Machael Sangut	11.0	
14	simion Chepngetich	1.5	
15	samuel Chepngetich	1.5	
16	Willy tangar	4.0	
17	Jakson chepsat	4.0	
18	Wesley Chepsat	2.0	
19	Joseph sangut	3.0	
20	Cheptoch Chemitei	3.0	
21	Andrew Cheptokock	2.0	
22	Rafael Chepngetich	2.0	
23	Kandie kitilit	2.0	
24	Kiptai Kipsangut	2.0	
25	samuel Tangar	3.0	
	Total	68.0	

4)	CANAL: KOKCHANDE		
	NAME	AREAGE	REMARKS
1	David Kibon	3.0	
2	Joel Rutto	4.0	
3	Wilson Chebii	2.0	
4	Kaibos Kipngeny	3.0	
5	Machael Kitilit	5.0	
6	Tarkok Kimunyan	2.0	
7	Kipkurer Kiptek	2.0	
8	Jackson Kitilit	4.0	
9	Samuel Solit	3.0	
10	Kimoi	3.0	
11	Kiprop	4.0	
12	Edward Kiptek	3.0	
13	David Kiptek	3.0	
14	Joel kiplagat	2.0	
15	Edwin Kipteck	2.0	
16	Kiprotich Kobetbet	3.0	
17	Alex Changole	2.0	
18	Ronald Ndirim	4.0	
19	Stephen Ndirim	2.0	
20	Wesley Chemjor	2.0	
21	Reuben Chirchir	4.0	
22	Kipchumba Kangogo	2.0	
	Total	64.0	

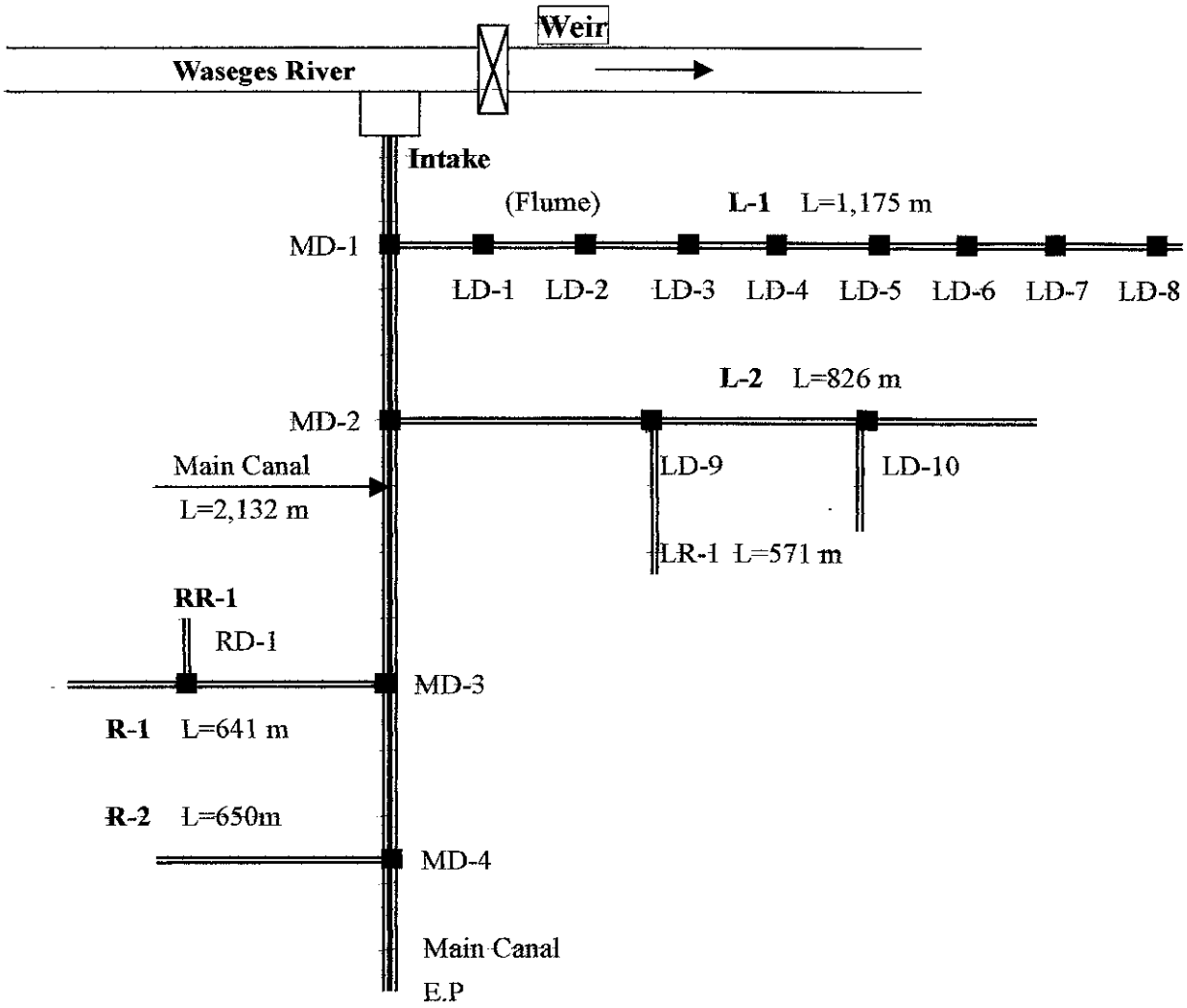
5)	CANAL: CHEPLOACH		
	NAME	AREAGE	REMARKS
1	Kibon Tikamoi	4.0	
2	Gilbert Kibon	2.0	
3	Bemard Kibon	2.0	
4	William Chebii	3.0	
5	Cherutoich Osea	3.0	
6	Kiptai Solit	3.0	
7	Samuel Kiptai	1.0	
8	John Boswony	2.0	
9	Harun Boswony	2.0	
10	Joseph Kochil	1.0	
11	Simion kochil	1.0	
12	Joel Chepyator	3.0	
13	Abraham Chepkirwok	4.0	
14	Wesley Keitany	2.0	
15	Dickson Chepkuto	3.0	
16	Toyoi Chepkuto	1.0	
17	Daniel Orgut	3.0	
18	Reuben orgut	4.0	
19	Rotich Cheserem	4.0	
20	Samuel Kiptai	2.0	
21	John Chepkoroisi	2.0	
22	Stephen Kurere	1.0	
23	Samson Kiptai	3.0	
24	Wilson Tangar	5.0	
25	William Barkasau	2.0	
26	Joseph Solit	2.0	
27	Kipya Lumet	2.0	
28	Moses Menotano	1.0	
29	Joseph Kiptai	2.0	
30	William Orgut	2.0	
31	Samson Kipwuwe	3.0	
32	shadrak Chebkuto	4.0	
33	Menotano Cheserem	3.0	
34	Kiptai Cheserem	2.0	
35	John Chepkor	1.5	
36	Richard Kirui	1.5	
	Total	87.0	

6)	CANAL: SESIA		
	NAME	AREAGE	REMARKS
1	Wilson Wendot	3.0	
2	Wesley Wendot	2.0	
3	Elijah Cherop	3.0	
4	Joseph kiprop	4.0	
5	Jackson kamaruso	3.0	
6	Kimoi Barkasau	5.0	
7	Philip songol	2.0	
8	Philemon songol	2.0	
9	Charles Komen	2.0	
10	Sote Kisito	2.0	
11	Rosa rotich	2.0	
12	Jennifer Rotich	2.0	
13	Musa Kipsang	3.0	
14	Kipsang Nyambut	1.0	
15	Wesley Chepsergon	6.0	
16	Josepk Kiptai	4.0	
17	Wilson Kiptai	3.0	
18	Peter Kiptai	1.5	
19	Reuben Kiptai	1.0	
20	Kiptai Sitet	4.0	
21	John Kamaruso	3.0	
22	Jacob Cheburet	1.0	
23	Kusolo Chepyegon	2.0	
24	Kiplagat Cheptoo	2.0	
		63.5	

7)	CANAL: CHEPKOTOYON		
	NAME	AREAGE	REMARKS
1	James Kipteroi	3.0	
2	Joseph Lorwai	2.0	
3	Joseph Kaptunai	5.0	
4	Matias Kimunyan	3.0	
5	John Kimunyan	2.0	
6	Simion Motoloi	2.0	
7	Stanley Koech	2.0	
8	John Limo	1.0	
9	Chebii Kangogo	3.0	
10	Elijah Sitet	4.0	
11	Jonathan Mitei	2.0	
12	Samson Mitei	3.0	
13	William Kaptunai	3.0	
14	John Mitei	2.0	
15	Sote Kiptai	4.0	
16	Benson Chebii	2.0	
17	Kamuren Chebii	1.0	
18	Reuben Chemjor	3.0	
19	Kimoi Kaptunai	2.0	
20	Kamurei Motoloi	2.0	
21	Paul Kimaru	2.0	
22	Joseph Wendot	3.0	
23	Frncis Kangogo	3.0	
24	Kimoi rutto	2.0	
25	Wilson Rutto	2.0	
26	Jackson Kimunyan	3.0	
27	Ki,meto Chebor	2.0	
28	Samuel Kiptanui	3.0	
29	Francis Kitilit	2.0	
30	David Wendot	1.0	
31	Rafael Kimosop	2.0	
32	Alfred Kipteroi	2.0	
	Total	78.0	

8)	CANAL: KAPCHEPKENDI		
	NAME	AREAGE	REMARKS
1	Wesley Cherop	2.0	
2	James Kiptek	3.0	
3	Tumeyo Kandie	3.0	
4	Benard Tumeyo	2.0	
5	Reuben Chelagat	2.5	
6	Wilson kandie	5.0	
7	John kandie	7.5	
8	Charles Kandie	2.0	
9	David Katuman	4.0	
10	Francis kasome	2.0	
11	Peter Wendot	4.0	
12	Jackson Kitilit	2.0	
13	Chelagat kiptek	2.0	
14	Musa Chelagat	2.0	
15	Tuimising yator	3.0	
16	Samuel Tuimising	3.0	
17	Joseph Tuimising	2.0	
18	Wilson Tuimising	2.0	
19	Samuel rotich	4.0	
20	Richard Rotich	3.0	
21	John Lorwai	5.0	
22	Charles Rotich	3.0	
23	Johana kipchumba	2.0	
24	Philemon Rotich	6.0	
25	Machael Kipkech	2.0	
26	Harun Kiptoo	2.0	
27	Wilson Kiptoo	1.0	
28	Mbelel Cheptalam	2.0	
29	Clement Chepsat	2.5	
30	Claryson Rutto	3.0	
31	Joseph Chemjor	4.0	
32	Moses Orgut	2.0	
33	Stephen Chebor	8.0	
34	Machael Chemuna	3.0	
35	Daniel Lorwai	3.0	
36	Mbelel Kimulwo	4.0	
37	Machael Mbelel	8.0	
38	Joseph Kipteroi	2.0	
39	Festus Kangor	8.0	
40	Festus Kandakor	7.0	
41	David Mairo	2.0	
42	Hosea Kurere	3.0	
43	Kimosop Kipchumba	2.0	
	Total	144.5	

Figure **Sandai Canal Survey Length and Nos. of Existing Division Box**



Canal	Location	Name	Survey Length	Nos. of Division Box	Remarks
Main Canal		Main Canal	L=2,132 m	4	
Lateral	Left	L-1	L=1,405 m	8	
	Left	L-2	L= 826 m	2	
	Left ---Right	LR-1	L= 571 m	--	
	Right-	R-1	L= 641 m	1	
	Right—Light	RR-1	L= 200 m	--	
	Right	R-2	L= 650 m	--	
Total			L=6,195 m	15	

Notes 1) L-1,L-2,R-1,R-2 Example L-1 : Left No.1 Lateral canal

2) MD-1, LD-1 Example MD-1 : Main canal No.1 Diversion or Dision Box

RD-1 : Right canal No.1 Division Box

Table Proposed Sandai Canal Bed Level (1/2)

Barrel No.	Canal / Structure	STA.No. From	STA.No. To	Distance	Bed Slope	Bed Elevation From	Bed Elevation To	Elevation Peg	Elevation Ground	Cutting Height	Remarks
		(m)	(m)	(m)		(DL.m)	(DL.m)	(DL.m)	(DL.m)	(m)	
No. 1	Transition	8.80	20.00	11.20	0.00833	98.043	97.988		98.117	0.000	
No. 2	Canal	20.00	30.00	10.00	0.00833	97.988	97.905				
No. 3		30.00	40.00	10.00	0.00833	97.905	97.821				
No. 4		40.00	50.00	10.00	0.00833	97.821	97.738				
No. 5		50.00	60.00	10.00	0.00833	97.738	97.655		98.002	0.264	
No. 6		60.00	70.00	10.00	0.00833	97.655	97.571				
No. 7		70.00	80.00	10.00	0.00833	97.571	97.488				
No. 8		80.00	90.00	10.00	0.00833	97.488	97.405				
No. 9		90.00	100.00	10.00	0.00833	97.405	97.321				
No. 10		100.00	110.00	10.00	0.00833	97.321	97.238		97.622	0.301	
No. 11		110.00	120.00	10.00	0.00833	97.238	97.155		97.622	0.384	
No. 12		120.00	130.00	10.00	0.00833	97.155	97.071				
No. 13		130.00	140.00	10.00	0.00833	97.071	96.988				
No. 14		140.00	150.00	10.00	0.00833	96.988	96.905				
No. 15		150.00	160.00	10.00	0.00833	96.905	96.821		97.127	0.222	
No. 16		160.00	170.00	10.00	0.00833	96.821	96.738				
No. 17		170.00	180.00	10.00	0.00833	96.738	96.655				
No. 18		180.00	190.00	10.00	0.00833	96.655	96.571				
No. 19		190.00	200.00	10.00	0.00833	96.571	96.488				
No. 20		200.00	210.00	10.00	0.00833	96.488	96.405		96.632	0.144	
No. 21		210.00	220.00	10.00	0.00833	96.405	96.321				
No. 22		220.00	227.00	7.00	0.00833	96.321	96.263				
No. 23	Transition	227.00	230.00	3.00		96.263	96.207				
	Existing Structure										
No. 24	Transition	235.00	240.00	5.00	0.00625	95.607	95.592				
No. 25	Canal	240.00	250.00	10.00	0.00625	95.592	95.530				
No. 26		250.00	260.00	10.00	0.00625	95.530	95.467		95.858	0.329	
No. 27		260.00	270.00	10.00	0.00625	95.467	95.405				
No. 28		270.00	280.00	10.00	0.00625	95.405	95.342				
No. 29		280.00	290.00	10.00	0.00625	95.342	95.280				
No. 30		290.00	300.00	10.00	0.00625	95.280	95.217				
No. 31		300.00	313.80	13.80	0.00625	95.217	95.131		95.357	0.140	
	Total			300.00							

Table **Proposed Sandai Canal Bed Level** **(2/2)**

Barrel No.	Canal / Structure	STA.No. From	STA.No. To	Distance	Bed Slope	Bed Elevation From	Bed Elevation To	Elevation Peg	Elevation Ground	Cutting Height	Remarks
				(m)						(m)	
No. 32		313.80	320.00	6.20	0.00625	95.131	95.092				
No. 33		320.00	330.00	10.00	0.00625	95.092	95.030				
No. 34		330.00	340.00	10.00	0.00625	95.030	94.967				
No. 35		340.00	350.00	10.00	0.00625	94.967	94.905				
No. 36		350.00	360.00	10.00	0.00625	94.905	94.842		95.028	0.124	
No. 37		360.00	370.00	10.00	0.00625	94.842	94.780				
No. 38		370.00	380.00	10.00	0.00625	94.780	94.717				
No. 39		380.00	390.00	10.00	0.00625	94.717	94.655				
No. 40		390.00	400.00	10.00	0.00625	94.655	94.592				
No. 41		400.00	410.00	10.00	0.00625	94.592	94.530		94.604	0.012	
No. 42		410.00	420.00	10.00	0.00625	94.530	94.467				
No. 43		420.00	430.00	10.00	0.00625	94.467	94.405				
No. 44		430.00	440.00	10.00	0.00625	94.405	94.342				
No. 45		440.00	450.00	10.00	0.00625	94.342	94.280		94.323	(0.019)	
No. 46		450.00	460.00	10.00	0.00625	94.280	94.217				
No. 47		460.00	470.00	10.00	0.00625	94.217	94.155				
No. 48		470.00	480.00	10.00	0.00625	94.155	94.092				
No. 49		480.00	490.00	10.00	0.00625	94.092	94.030				
No. 50		490.00	497.20	7.20	0.00625	94.030	93.966		93.966		
	Total			183.40							

Ⅷ. RAIN WATER HARVEST

RECONNAISANCE SURVEY REPORT:
ARABAL LOCATION PARTALO VILLAGE

April 2000.
By Kemei BP

INTRODUCTION:

a) Soil type: Shallow soils with embedded drainage.
- Silty clay with low porosity (Low infiltration capacity) this greatly affects flow of water into deeper layers.
- Low porosity is due to less or almost no vegetative cover and organic manure as well as livestock causes hard pans.
- Soil surface is marked with scattered stones

b) Erosion features:
- Rills and developing active gullies and sheet erosion.
- Wind erosion prominent in dry period.

c) Vegetative cover / catchment cover
- Bare or scarce cover hence provides a lot of run-off.
- Commonly marked with scattered Acacias.

d) Catchment area (Run-off area):
- Its long and narrow; its more or less rectangular along the slopes; with a slope length of approximately 700m (width) and 250m along the slope (length). See attached Figure B Length x width (250 x 700) Acres = 43 Acres.

e) Source of run-off:
- source f run-off is external catchment system (hillslope)

f) Characteristics of run-off
- Typically external catchment and spate flow system (divert water from seasonal watercourse during infrequent high flows.

FROM COOKS METHOD:

Characteristics of run-off area
i) Vegetative cover----------25.0
ii) Infiltration rate---------- 30.0
iii) Topography (gentle – moderate)----------5.0
Summarized characteristics---------- 60.0

- From the table

a) Given run-off area: 43 acres
b) Summarized characteristics 60

Therefore run-off area is between 40 and 50 cusecs
- Run- off area for 40 acres = 85 cusecs
- Run-off area for 50 acre s = 105 cusecs
- Thus (40 + 50) / 2 = 45 cusecs and (85 + 105)/ 2 = 95 cusecs

(1 cusec = 1ft cubic/ sec = 28.3 L sec – 1. Therefore amount of water (run-off) from run-off area = 95 cusecs (2688.5 Lsec –1)

Cross-sectional Dimension of Diversion Ditch

- Soil : silt clay --------- factor 3.5

a) Max. velocity of water flow (ft/sec) without erosion (expected after two years) = 35 ft/ sec.
b) Channel factor: = V x square root of L divide by H : from table : (60 + 80)/ 2 = 70
c) Depth of channel; using channel factor from table = (1.5 + 1.75)/2 ≠ 2 ft (60cm) (70 cm or 0.7m to be adopted together with free board)
d) Discharge: Cusecs ft –1 width of channel diversion ditch depth 2 ft, then; 2 ft corresponds to discharge of 11 cusecs over ft width of diversion ditch.
e) Width of diversion ditch ft (trapezoidal) = run-off (cusecs) over discharge (cusecs ft – 1) = (95 cusecs / 11 cusecs) ft = 8.6ft = 2.5 m (top width)

But for a rectangular section (bottom width) = top width x 1/3 = 8.6 x 1/3 = 2.8ft – 3 ft = 0.86m = 0.9 m
See attached Figure A
Cross-section. Area = bd. x 3 d square
Where: b= bottom width
d= Depth
s= side slope
= (0.9 x 0.7) + (1 x 0.7 square) = 0.63 + 0.49 = 1.12 m square

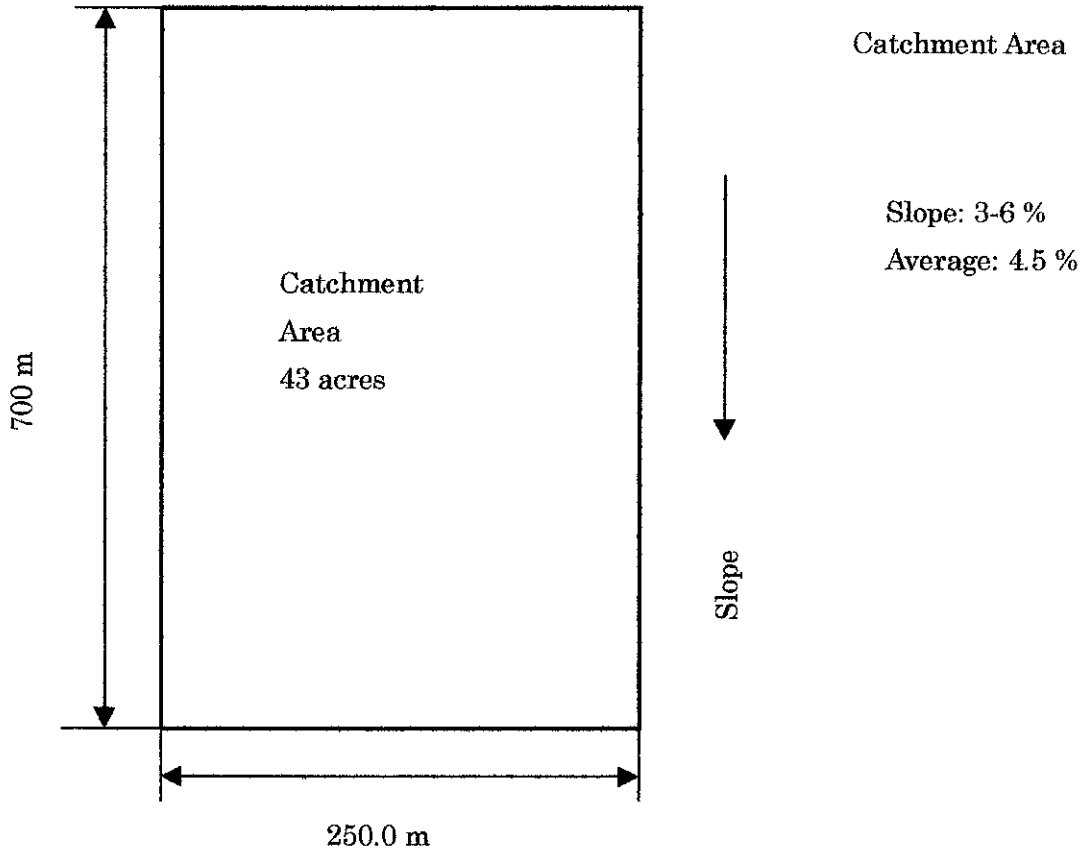
Number of Streams to collect Run-off

- Water spreads allover the run – off areas, however there are a few rills and minor gullies where run- off tends to concentrate.
- Approximate length of diversion ditch is 300m.

OVERFLOW ARRANGMENT

- External catchment system , with Fanya Juu terraces (modified to harvest water) i.e. depth should exceed 2ft (60 cm)
  See attached Figure B
- Catchment to cultivated area ratio: 43: 10, 4.3: 1, ~ 4: 1

Figure A Catchment Area and Diversion Ditch Dimension



Diversion ditch dimension

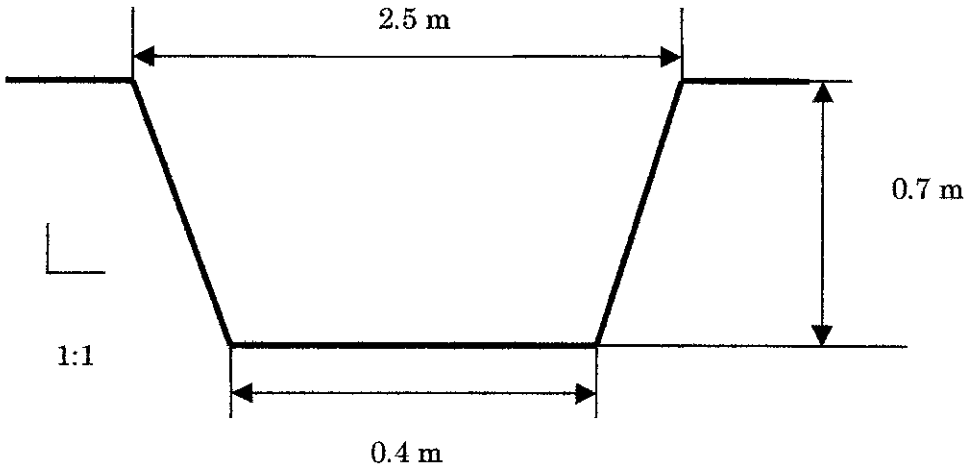


Figure B Sketch Map of Runoff Area and Cultivated Area