#### 3) Improvement of Literacy

Improvement of literacy was promoted by the following projects: ① construction and utilization of literacy classrooms-cum-meeting halls, ② training of village literacy teachers, and implementation of literacy education for villagers in classrooms built by the trained teachers, and ③ literacy training.

Table 2.2.1.7 Monitoring Summary [Construction of Literacy Classrooms (Meeting halls)]

	Item				Conten	<u>-</u>	Classicoms (Niceting nams)			
		To energize Terroir Management Committee activities by securing common space								
Purpos	se	To promote literacy education								
					buildings	in the v	erification project district.			
		1	•	•	_		iteracy education is an important issue			
Backg	round	for r	ural development.		-					
		· It is	necessary therefo	re to create base	es for the p	promoti	on of residents' activities and literacy			
		educ	ation.							
Vorific	cation Items	· Cons	struction of the bu	ildings by reside	nts					
ACHIII	ation items	· Man	• Management of the facilities by residents							
	Selection	ſ	nodern meeting fa		_					
	Requirements	1	blishment of mana	•	_					
ing			ilding, and provision of land							
Planning	Request Status	· Con:	Construction was requested by all 12 villages							
	Selection		· As the meeting hall is a base for Terroir Management Committee meetings and literacy							
	Decision		ation, centers are			village	s.			
		_	le-story banco brie							
ļ			pment: blackboard	d, teacher's desk	, pupils' de	sks				
	Standards/	Type	No. of Target	Area	1		Target Villages			
	Structure		Villagers							
}		A	700 or over	9.5×5.5m	Kokou, Zambougou					
		B	B   Less than 700   7×5.5m   Villages other than the above  * Construction work carried out by residents							
Implementation content	Method/ System	· Orde	er placed with Na mmissioning (providents ① provide	tional Directora vision of materia	te of Rura ls, construc	ction gu	gement and Equipment through local idance, technical training) vide bricks free of charge. No cash			
) me		Year	District	No. of	Constru	ction	Remarks			
l da				Buildings	Costs (I	Fcfa)				
	Results	2000	Soignebougou	3	8,66	57,000	B:3 buildings			
	(Costs)		Cinzana	4		10,000	4			
	(003.5)	2001	Cinzana	1		08,000	B:1 building			
			Katiena	2		03,000	A: 1 building, B:1 building			
		Total	,	12		34,000				
	Human Input	1 -	e specialists in im by Mali C/P	proving the livin	g environn	nent 2	2 M/M			
Antioi	pated Effects	· Invig	goration of terroir	activities and pro	omotion of	literacy	y education			
Antici	Paicu Effects	Acquisition of building construction and management skills								
	_	1				tained	and the wishes of residents obtained			
S	tion	1	igh a PRA survey							
itie	ınta			s were held bety	ween the C	GTV a	nd the Study Team, and project plans			
Activities Condition	lementa	1	drawn up.	04 34	, , ,					
₹೮	Implementation Process	1	Mar 2001, Dec 20		_					
	<u> </u>	4	n Apr 2001: Comn			, monit	oring			
		Oct :	2002: Training in	management tec	nnıques					

Nanagement  Nanag			
The inside of the meeting halls is kept clean and the equipment is well locked after. However, the meeting halls built in 2000 have weathered 2 rainy seasons and cracks have appeared in some of the outside walls, but they have not yet been properly repaired.  The management group meets about once a month and carifes out inspections and cleaning. The number of users and the purpose of use are recorded daily in each village to monitor the state of use. As a result, the following points have come to light. The average number of days the center is used each month is 5.0 days/month and the total number of users is 439 per day/per month, so overall the centers are well used. Use varies from village to village in the range of 0.6 to 14.0 days/month. In general, the halls are used less in the busy farming season and more in the dry season when farming is slack. The purposes of use in order are ① education such as literacy training, 2 CGTV meetings, group meetings, and ③ others.  Terroir commission meetings, trainings, meetings of women's groups etc. are held in the meeting hall and the center serves as a base for CGTV activities. In particular, the halls are effective in enabling meetings to be held at night or when it is raining.  Village literacy classes were held a total of 12 times in 9 out of 12 villages. The halls are also used as an elementary school in Bougan. The centers are contributing greatly to promoting literacy classes were held a total of 12 times in 9 out of 12 villages. The halls are also used as an elementary school in Bougan. The centers are contributing greatly to promoting literacy classes were held a total of 12 times in 9 out of 12 villages. The halls are also used as an elementary school in Bougan. The centers are contributing greatly to promoting literacy classes were held a total of 12 times in 9 out of 12 villages. The halls are also used as an elementary school in Bougan. The centers are participatory evaluation)  As 97% of residents use the centers and 93% participated in the construction			
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Table 2.2.1.8 Monitoring Summary [Training of Literacy Teachers]

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n	Item		611.	Content							
Puŋ	pose	+		ing in the village							
	•	1	Literacy rates in the villages are extremely low. To effectively promote development projects and ensure the smooth running of facilities, it is essential to improve literacy rates. However, the cost of								
Bac	kground										
			nai interacy teach ved in finding tea	ers as required is high and i	s not rea	usue cons	sidering	ine iim	e ano		
Veri	fication Item	· · · · · · · · · · · · · · · · · · ·		•							
VCII		• Training of literacy teachers in the villages Initial • Proposed by JICA Study Team									
		Illitiai	1	chosen who will continue	to reside	in the vil	lage and	can act	e ae		
	Selection		literacy teac		.0 100140			oun uo	. 43		
	Requirements	Supplementary	<del>                                     </del>	chers in the village, persons	in charg	e of CGT	V accou	nting o	clerical		
		'''	work and who have a low level of literacy								
		Initial		Implemented at the suggest	-	e Study T	eam as p	art of s	upport for		
	Request		the establishment of CGTV)								
	Status	Supplementary	· 4 villages in	Soinebougou district (Dafi	mbougo	ı, Siradob	a, Fabou	ıgou,			
			Dougoutigu	ibougou)							
		Initial	• 12 villages						<b></b>		
	Selection	Supplementary	1	Soinebougou district (Dafi	mbougou	ı, Siradob	a, Fabou	ıgo,			
			Dougoutigu								
		[Initial		ses villagers who will conti	nue to re	side in the	e village	and car	n act as		
			literacy teac								
		Supplementary	_	no will continue to reside in							
<u>50</u>	Standards			k for CGTV, GAS sub-comr	nittees ar	id micro	credit fin	ancial	systems,		
ii.			and have a literacy level of III or lower.								
Plai		<ul> <li>CGTV and the local coordinator choose villagers who meet the selection standards</li> <li>Participants bear the cost of their own textbooks.</li> </ul>									
:nt/		Initial				. days in	Ságon				
onte	Method	Supplementary	<ul> <li>Commissioned to local consultant and implemented for 15 days in Ségou</li> <li>Commissioned to local NGO and implemented for 30 days in Dougoutiguibougou</li> </ul>								
n C	Money	meeting hall									
Implementation Content/Planning			Level after Training								
ent					No. of Participants						
len			Year/District	Village	No. of rticipar	Men	Men	Men	Women		
Imp					Pag	INICII	Mell	MEII	Wonten		
					+		ļ	ļ			
			2001/1/20 ~	Kokoun	3	III	X	X			
			2/3, Katiena	Bougan	3	<u> </u>	II	ļ	I		
			2001/1/20 ~	Diaba	3	I	II		I		
	, s		2/3, Cinzana	N'Dinzanawere	2	I	II				
	Results			Sinébougou	3	I	I		I		
	8			Zambougou	3	I	I		III		
	1	Initial	2001/1/20	Zangourabougou2	3	I	I	3 / 3 7 7 7	I		
		<u> </u>	2001/1/20 ~	Dafimbougou	3	II	III	VIII			
	1		2/3, Soignebougou	Sakoibougou	3	I	I	*	I		
			Solgheooligou	Siradoba Fabougou	3	1	II X	XI	A		
				Dougoutiguibougou	3	II		X			
			Total	Costs are included in	36	III	VIII	XI			
			TOTAL	project to support	30						
				establishment of CGTV	ŀ						
		5.	Soignebougou	Dafimbougou	0		<u> </u>	1	<u> </u>		
		ntar_		Siradoba	5	3 out of	5 people	reache	d level I		
		l me		Fabougou	0	2 32. 01	- r-opio				
				1		<del> </del>					
		eldd.	İ	Dougoutiguibougou	6	3 out of	5 people	e reach	ed level I		
		Supplementary	Total	Dougoutiguibougou Cost: 1,109,155 Fcfa	11	3 out of	5 people	e reach	ed level I		

	Implementa	2011		teracy teacher training was implemented for nentary literacy teacher training was implem	15 days from January to February 2001. ented for 30 days from March to April 2002.				
			Period and number of trained village literacy teachers participating in literacy trainings held by CGTV (Survey up to end of November 2002)						
			0021 (001	First	Second				
			Bougan	1 March-15 April 2001	28 Sept-28 Nov 2002				
				No. of participants: 23 (inc. 5 women)	No. of participants: 20 (No women)				
			Kokoun	12 Feb to 8 June 2001	8 May-2 July 2002				
ion				No. of participants: 40 (inc. 15 women)	No. of participants: 42 (inc. 12 women)				
ıdit			Dlaba	31 April-3 June 2002 (At night)					
Activities Condition	ų.	,		No. of participants: 13 (inc. 2 women)					
ties	Management/Use	)	N'Dinzanawere	13 March-4 May 2001					
tivii	lent			No. of participants: 28 (No women)					
Ac	реп	b a	Sinebougou	18 Sept 2002- In process (as of 25 Nov)					
	апа		7	No. of participants: 40 (inc. 12 women)	126 I 1 20 4 2002				
	⋝		Zambougou	9 Feb-15 March 2002	26 July-29 Aug 2002 No. of participants: 91 (inc. 29 women)				
			Zangourabou	22 April-6 May 2002 (Daytime)	140. 01 participants. 91 (nic. 29 women)				
			gou2	No. of participants: 40 (inc. 10 women)					
			Siradoba	10 April-9 May 2002 (23 days)					
			(Bougounina)	No. of participants: 10 (inc. 4 women)					
			Fabougou	10-21 Oct 2002 (12 days)					
				No. of participants: 13 (inc. 3 women)					
			Dougoutiguib	24 April-25 May 2002 (20 days)					
	ļ		ougou	No. of participants: 11 (inc. 7 women)					
	ficial		1	1 villagers (including 99 women) were able					
Impa	ct Seen			e literacy teacher training and contributed to					
			<ul> <li>Teachers with a literacy level of II or higher were appointed in 10 out of 12 villages.</li> <li>Comparisons of the improvement in level before and after the training should be made public.</li> </ul>						
		[a]	<ul> <li>Classes should be divided according to the level of the participants.</li> </ul>						
		Initial	• 15 days is too short to bring someone from level III or lower up to level I.						
			• Participation in the training should be conditional on the salary and duties of the literacy teacher						
			being decided in advance by the CGTV and the agreement of the participant being obtained.						
				participants reached level III or higher at whi					
					just prior to the training. Furthermore, on the				
	Evaluation			ing commenced, the participants from Dafin	-				
ſ	EV3	ary		ultural problems with Dougoutiguibougou, a dropping from 20 to 11. The main cause of t					
		Supplementary		or participation beforehand.	inis was insumerent explanation of the				
		olen		nt should be signed in advance by the JICA	Study Team, CGTV and the participants				
		ΞĒ		eir respective duties during and after the trai					
	ļ	<b>V</b> 1			r villages, rather than gathering people from a				
			number of villages in one village for literacy education, it would be cheaper to send a literacy teacher						
			to each villa	=					
		, 1		g of this project as an M/P project is highly a	appropriate.  ining, it is more effective to send a teacher to				
					ning, it is more effective to send a teacher to nned to employ teachers and send them to the				
_			/illages.	promotion in the planting. Therefore it is plan	and to employ teachers and some mem to me				
Feed	ļ		_	acher shall spend 90 days in one village.					
to M	r	· I	Extension worker	s will give instructions that agreement is rea	ched between the CGTV and the participants				
				ng regarding the salary to be paid to village l					
		participants and the duties of village literacy teachers after training.							

**Table 2.2.1.9 Monitoring Survey [Literacy Training]** 

	Item		2.2.1.9 Wontoring S	Content								
Purpo		• To improve th	ne level of literacy education									
ruipe	780		e level of literacy education in the villages in the villages are extremely low. To effectively promote development projects and									
Back	Rackground '		noth operation of facilities, improvement of literacy rates is essential.									
Verifi	ication		on of village literacy training				y teacher	s.				
Item		•		•	•							
	Selection	· (Proposed by	· (Proposed by the JICA Study Team) The village pays the teacher's salary.									
	Require-											
	ments											
	Request	• 12 villages (I	· 12 villages (Implemented at the suggestion of the Study Team as part of support for the establishmen									
		CGTV)	* · · · · · · · · · · · · · · · · · · ·									
	Selection	+				••						
	Standard	c i	salary is borne by the village									
	Standard	• Night lamps a	nd textbooks are borne by th									
tent	Method		the training results is commi									
Ę	- Incinco	About 30 part	icipants are assembled from	each village and the tra	aining is	held for 45						
Planning/Implementation Content					Part	icipants	1	(Level III				
		Year/District	Village	Period			†	igher)				
nen					Total	Women	Men	Women				
olen		2001	Kokoun	2/9~4/9(45)	30	8	7	1				
Jul		Katiena	Bougan	2/9~4/9(45)	30	88	7	0				
ing/	Results	2001	Dlaba	2/8~4/11(45)	30	8	9	2				
ann		Cinzana	N'Dinzanawere	2/8~4/11(45)	21	7	4	0				
딦			Sinébougou	2/8~4/11(45)	30	6	8	0				
			Zambougou	2/8~4/11(45)	47	20	6	1				
	}		Zangourabougou2	2/8~4/11(45)	38	4	11	1				
		2001	Dafimbougou	2/8~3/26(45)	30	7	0	0				
		Soignebougou	Sakoibougou	2/8~3/26(45)	33	6	17	3				
	Ì		Siradoba	2/8~3/26(45)	26	11	6	0				
			Fabougou	2/8~3/26(45)	30	14	4	1				
			Dougoutiguibougou	2/8~3/26(45)	30	9	4	0				
	1	Total			375	108	83	9				
Antic	ipated Effe	<del></del>	· Improvement in the lite	· ·	fficials a	nd participa	ints					
Activ	ities	Implementation Process	· Implemented from 8 Fe	b to 11 April 2001								
Cond		Management/Use	• For CGTV activities, se	e the results of manage	ment/use	of the liter	acy teacl	ner				
Cond		Management, Osc	training project.	e the results of manage	Allelle, ase	of the inter	acy teaci	101				
Bene	ficial	Projects were in	nplemented smoothly by imp	roving the literacy of t	hose resp	onsible for	carrying	out the				
	ct Seen	verification proj	• • • •				,					
			village literacy teachers are b	elow the required leve	l for teac	hing, the lev	vel of tea	ching is				
Evaluation			the participants showed imp					Ü				
			appoint all the village literac				•					
			ers should give instructions t				en the C	GTV, the				
r		teacher and the	participants regarding the co	nditions for employing	teachers	and the sha	re borne	by the				
	back to	participants.		-								
M/P			at the participants take part i		_							
		- ,	book fee, participation in ev	aluation tests before ar	nd after th	ne training,	obligatio	n to				
		attend, agreeme	nt of family).									

## 4) Organizing Residents

Support for organizing residents was promoted by the following projects: ① enlightenment about activities to combat desertification using videotapes, and ② support for the establishment of Terroir Management Committees.

Table 2.2.1.10 Monitoring Summary [Enlightenment about Activities to Combat Desertification using Videotapes]

		T							
	Item				Content				
Purpose	<b>;</b>			equipment to teach to combat desertif	n residents the need to ication.	actively and syst	ematically		
Backgro	ound	· Residents are aware of the deterioration of natural resources, but do not know how to prevent it.							
	tion Item				ities using videotapes	<del></del>			
	Selection Requirements	· Proposed by	the Stud	ly Team. No selec	tion requirements.				
Ħ	Request Status	· 12 villages							
on the	Selection	• 12 villages				· ·			
ığ II C	Decision	12 · mages							
Planning Implementation Content	Standards/ Structure			-	ovens, improvement o	_			
Fine	Method/System				nent using videotapes,			ics	
oldu	Results (Costs)			······································	otapes for promoting	······································			
H	Results (Costs)				, planning of video sh	······································	50,000 FCI	<u>a</u>	
	Human Input			showing videotapes					
Anticipa	ated Effect			of residents regar ching videotapes	ding necessity of meas	ures to combat d	esertificatio	n and	
						Parti	icipants		
		Year/District 2000/Katiena		Village	Period	Total	Women	Mer	
				ın	10/12~10/13	26	21		
			Bougan		10/13~10/14	28	24	4	
	SS	2000/	Dlaba		10/7~10/8	7		MINTERPRETATION 1-	
	မို့	Cinzana	N'Din	zanawere	10/9~10/10	Not known		d-d-d	
_	l no		Sinébougou		10/5~10/6	22	15		
Activities Condition	Implementation Process		Zambo		10/8~10/9	14	12	2	
ond	Jem		Zangourabougou2		10/6~10/7	21	15	(	
s C	len len	2000/		bougou	9/27~9/28	16	12	4	
'itie	du	Soignebougou	Sakoibougou		9/27~9/28	23	23	(	
Ġį,			Sirado	ba	10/1~10/2	10	9	]	
<			Fabou	gou	9/29~9/30	12	11	]	
			Dougo	utiguibougou	9/28~9/29	13	9		
		Total				200			
		Equipment		Videotapes, mo	nitor, generator				
	Management/	Management Sy	/stem	• Managed by JIC	A Study Team				
	Use	Management/		-	e, used once in forest	•	d independ	ently	
		Use Status			ator in Katiena and C				
Benefic	ial Impact Seen			•	tematization to comba nce in their own abilit	•		n of	
		· Videotapes a	re an eff	ective means of er	ilightening residents.				
Evaluation		• The equipme	ent was	not used frequen	tly enough, but it pro	ovides motivation	n for reside	ents to	
		gather.							
					when using videotape				
					ening residents, the ne			ed to	
Feedback to M/P				-	charge of looking after	the equipment is	sclearly		
		identified and	d plans a	ire drawn up for it	s use.				

Table 2.2.1.11 Monitoring Survey [Establishment of Support System for Terroir Management Committee]

			Committeej
	Iter	n	Content
Purpo	ose		• To establish a residents' organization to enable the residents to develop and manage the natural,
Tuipo	,sc		social and economic resources in the terroir themselves.
Backg	Background		<ul> <li>Existing organizations in the village are not organizations that will systematically carry out development of the village. The wide-ranging deterioration of natural resources cannot be prevented at individual level. Sustained and effective terroir management requires an organization that will take on and manage development activities.</li> </ul>
Verific	cation	Items	<ul> <li>Selection of the Terroir Management Committee (CGTV) members</li> <li>Drawing up of CGTV rules and registration of the CGTV in the commune</li> </ul>
	Selec Requ	tion irements	· No existing CGTV in the village
뛽	Requ	est Status	· To be implemented in all 12 villages as requested
Planning Implementation Content	Struc	lards/ ture	Establishment based on the general will of the villagers
Planning tentation (		1/	· Commissioned to local consultant (BEAGGES)
lan ntat	Meth		• Examination and amendment of the draft rules proposed by the JICA Study Team by the CGTV
H H	Syste	m	· Registering of the election of officials and final draft of rules in the commune
Imple	Resu	lts (Costs)	• 58,160,000 Fcfa (including costs of leadership training, literacy teacher training, accounting training)
	Llum	an Input	<study team=""> Support for establishment through local coordinator</study>
	LIUIN	ан шриг	<mali> Enlightenment and guidance by C/P</mali>
Antici	ipated	Effect	Systematic and effective operation of projects
	Ì	Imple-	• From September through November 2000 residents' meetings were held several times in each
		mentation	village, and the CGTVs were registered in the commune in December after the election of
덮		Process	officials and the drawing up of rules and private regulations.
Activities Condition		Management/ Use	<ul> <li>CGTVs operate with appropriate advice from local coordinators.</li> <li>General meetings of CGTVs and subcommittees are held as necessary.</li> <li>CGTVs were established very smoothly and speedily in every village.</li> <li>In most cases, amendments made from time to time to the rules, private regulations and agreements have not been re-registered in the commune.</li> <li>The CGTVs in Soignebougou district at first could not reelect problematic officials themselves, but now each village changes its rules and reelects its officials itself.</li> <li>The CGTVs in Cinzana district are the most active and keep minutes of meetings, etc. In contrast, Soignebougou is relatively the most inactive district.</li> </ul>
Benef	icial	Impact	· The CGTVs that have been established are contact points for the implementation of projects, and
Seen		<u> </u>	projects are managed effectively. The CGTVs' subjectivity has been adequately established.  All the officials surveyed judged that establishment of the CGTV had been beneficial. All the
Evaluation		Evaluation by Residents	officials surveyed also thought that the CGTV would continue to be necessary in future. However, about two-thirds of the officials responded that they did not understand the role of officials.  • When asked about the sustainability of CGTV activities in the future, 10 out of 12 villages replied that they were confident of continuing their activities in future.
Evalu		ın by am	<ul> <li>When approached by an outsider, the villagers' mentality is "if we make organization as we were told, we will gain some kind of profit".</li> <li>The CGTVs are functioning adequately as agencies for implementing village development</li> </ul>
		Evaluation Study Team	<ul> <li>The COTVs are functioning adequately as agencies for implementing viriage development projects.</li> <li>What most affects the performance of operations is the literacy and accounting ability of the villagers.</li> </ul>
Feedback to M/P		о М/Р	<ul> <li>In the verification project the CGTVs were established after the PRA survey, but as establishment of a CGTV is easy in itself, CGTV should be established at the earliest possible stage, and extension workers should provide guidance on how to change rules and reelect officials as necessary.</li> <li>As residents do not gain sufficient understanding from just one leadership training, extension workers should provide guidance on a continuous basis according to the degree of understanding.</li> </ul>

## 5) Small-scale Financial System

Table 2.2.1.12 Monitoring Summary [Accounting to Support the Establishment of Small-scale Financial Systems]

Item Ose ground	<ul> <li>To improve the</li> <li>To enable easy present custom</li> <li>Residents' dem</li> </ul>	ability of residents to p		rojects through loans						
	<ul> <li>To improve the</li> <li>To enable easy present custom</li> <li>Residents' dem</li> </ul>	ability of residents to p	lan, implement and manage p	rojects through loans						
ground	<ul> <li>To enable easy present custom</li> <li>Residents' dem</li> </ul>	access to savings thre		_						
ground	present custom Residents' dem	<del>-</del>	ough the use of currency an	To improve the ability of residents to plan, implement and manage projects through loans						
ground	· Residents' dem	of using livestock as say	• To enable easy access to savings through the use of currency and to endeavor to change the							
ground										
		_		nbougou, 11 villages have no						
	•			to the need to be literate in						
		lack of means of tran	sport to the city, etc., the ba	anks are inaccessible to most						
	villagers.									
cation Items			l system in each village							
		peration of the system is	n the CGTV							
Selection	· Requested by th	=								
Requirements		rs 20% of the cost of pu								
Request Status			·							
Selection				<del></del>						
			on of residents' payments to	the fund, excluding the grant						
			=							
-		ys). Inspection of devel	oped villages and regular tec	chnical guidance for the time						
Content	_	c 11 1 m								
	• Establishment of a small-scale finance association and signing of an agreement with the Finance									
	Ministry. Opening of a finance association account with the Agricultural Development Bank and									
	-									
Mathad	1									
MEHIOU										
Results (Costs)	·									
(Costs)										
icinated	· Provision of the									
-		-	<del>-</del>							
of	Village	• •	"							
ıge		(Women)	over							
cha	Kokoun	2(0)	2 out of 2 people							
.s	Bougan	and the second s		ACTION AND A CONTROL OF A CONTR						
   	· · · · · · · · · · · · · · · · · · ·			e reper en recent de la companya de						
) 9g _				X						
for			Annah ini mini di anta indah indah manah mini mini mini mini mini Mini mini mini	AND THE PROPERTY OF THE PERSON AND AND AND AND AND AND AND AND AND AN						
ing										
l gin	2	,								
of th	Dafimbougou	2(0)	0 out of 2 people	ANTIGOTO DE LA COLORA DEL COLORA DE LA COLORA DEL COLORA DE LA COLORA DEL LA COLORA DEL COLORA DE LA COLORA D						
lts (	Sakoibougou		•	AMERICAN CALIFORNIA DA PARA DE LA						
esn	Siradoba									
ا چ	Fabougou									
silu			†	And the second s						
Res	ou	-(0)								
				<del></del>						
	Selection  Implementation Content  Method  Results (Costs)  icipated cots  icipated cots	Selection  - 11 villages (excession)  - Distribution of for the verificate   - Laying down of the fund (7 days being)  - Establishment of Ministry. Open negotiation of less of Commission costs  Results (Costs)  - Provision of the costs   - Improvement o	Selection  • 11 villages (excluding Zambougou whith a Distribution of cashboxes. Confirmation for the verification project.  • Laying down of rules. Election of peother fund (7 days). Inspection of developmentation being.  • Establishment of a small-scale finance Ministry. Opening of a finance associate negotiation of loans.  • Distribution of cashboxes and confirm Team.  • Support for establishment of the system Purchase of cashboxes: 2,530,000 Fcfa Commission costs Period: 29 June 2001  Results (Costs)  Results (Costs)  Period: 21 June 2002  Inspection of development of residents' ability to plant polarization.	Selection  • 11 villages (excluding Zambougou which already has a small-scale five distribution of cashboxes. Confirmation of residents' payments to for the verification project.  • Laying down of rules. Election of people in charge. Accounting trather the fund (7 days). Inspection of developed villages and regular tects the fund (7 days). Inspection of developed villages and regular tects from the fund (7 days). Inspection of developed villages and regular tects from the fund (7 days). Inspection of developed villages and regular tects from the fund (8 days). Inspection of developed villages and regular tects from the fund (9 days). Inspection of developed villages and regular tects from the fund (9 days). Inspection of developed villages and regular tects from the fund (9 days). Inspection of the first contribution account with the Agricument of the fund of the first contribution of team.  • Support for establishment of the system is commissioned to a local of the fund of the fund of the first contribution of team.  • Support for establishment of the system is commissioned to a local of the fund of the						

	Results as of end of December 2002	Village	Total time deposits (Fcfa)	Percentage of working population of village (age 15-55) who are members (%)	Percentage of loans due at end of December 2002 that were repaid (%)			
	er 2	Kokoun 2,290,000 22 100						
ļ	- A	Bougan 1,209,000 20 94						
	3	Dlaba	1,396,955	32	100			
	£	N'Dinzanawere	1,100,930	44	97			
	g o	Sinébougou	975,705	32	100			
		Zangourabougou2	908,235	44	95			
	0 8	Dafimbougou	788,900	33	100			
ĺ	lts a	Sakoibougou	1,229,995	37	100			
	[nsa	Siradoba	504,450	45	100			
	Ž.	Fabougou	1,050,000	22	100			
		Dougoutiguibougou	1,102,970	35	100			
		Dougounguioungou	1,102,970	Average 33%	Average 99%			
Ma	nagement	Village	Monogement system					
Sta	_	11 villages	Management system Finance Committee		gement/Use			
Sia	105				th no serious money trouble.  r the cashboxes had been			
	Implementation Process	<ul> <li>Management ability: The ability to manage the cashboxes is gradually improving through continuous accounting guidance and education in understanding of roles.</li> <li>A finance association for 11 villages was established in Sinebougou on 4 September 2002.</li> <li>The association was registered in Ségou cercle on 16 September 2002 in order to conclude an agreement with the Finance Ministry.</li> <li>An account was opened in the association's name at the Ségou branch of the Agricultural Development Bank on 29 November 2002.</li> <li>Some of the people in charge of accounting do not have the necessary ability and continued accounting guidance is required.</li> <li>In some villages cases have come to light where the village's contribution to the project has been</li> </ul>						
		<ul> <li>loaned arbitrarily at a different rate from that previously decided. As this impedes uniform loan activities, in future all residents' payments shall be put in a time deposit in the name of the CGTV.</li> <li>As some grants still exist through the verification project, individual commercial activities (minor trading) account for 98% of loans.</li> <li>Economic activities of the villages: The number of loans which stood at 368 at the end of July</li> </ul>						
	neficial Impact	2002 increased 2.5 times to 908 by the end of December 2002 and contributed greatly to						
See	n	invigoration of the villages. Of the total number of loans, 54% were to women, contributing						
		greatly to the improvement of women's incomes.						
	Evaluation				small-scale financial system			
	by Residents		ed by both men and wom					
Evaluation	Evaluation by Study Team	<ul> <li>Sound operation of the small-scale financial system seems set to drive sustained development of the village.</li> <li>Operation is going well with loan business brisk and a 99% repayment rate on average.</li> <li>Extension workers advise that the state of lending be reported regularly at village general meetings.</li> </ul>						
Fe	edback to M/P	<ul> <li>As a condition for residents' contribut necessary expenses separately until in financial system pr</li> <li>Rather than registed credit union), it was and register the rep</li> </ul>	tions are put into time is for maintenance of farterest is generated by the oposed in the M/P is shoring individual depositories judged easier and mor resentative with the admi	deposits, and the CGTV cilities and for activities are time deposits. (The mwn in Figure 2.2.1.1) ies according to village will e to the wishes of resident inistration (autonomous vi	reby from the first year all independently collects the that do not generate profits echanism of the small-scale that the administration (mutual that to establish an association illage deposit and loan bank). The M/P (See Figure 2.2.1.2)			

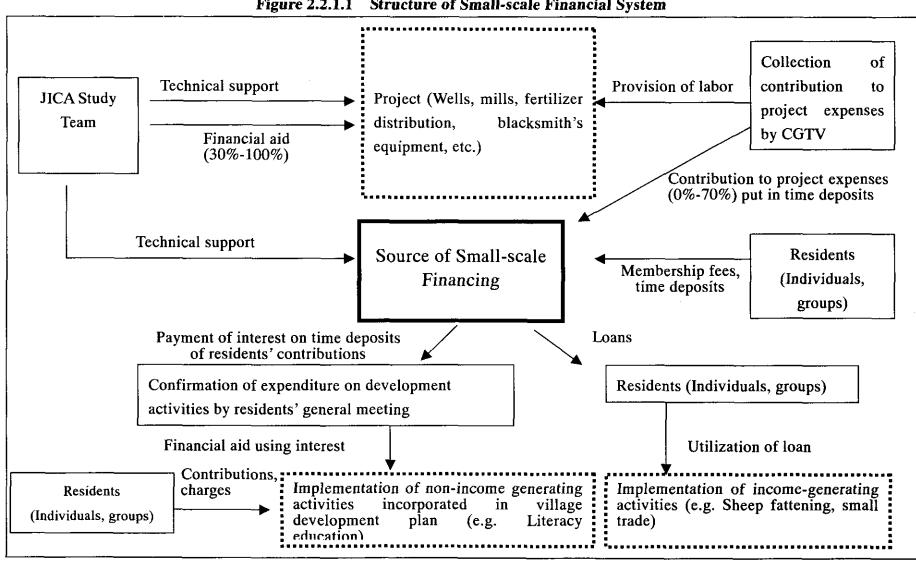
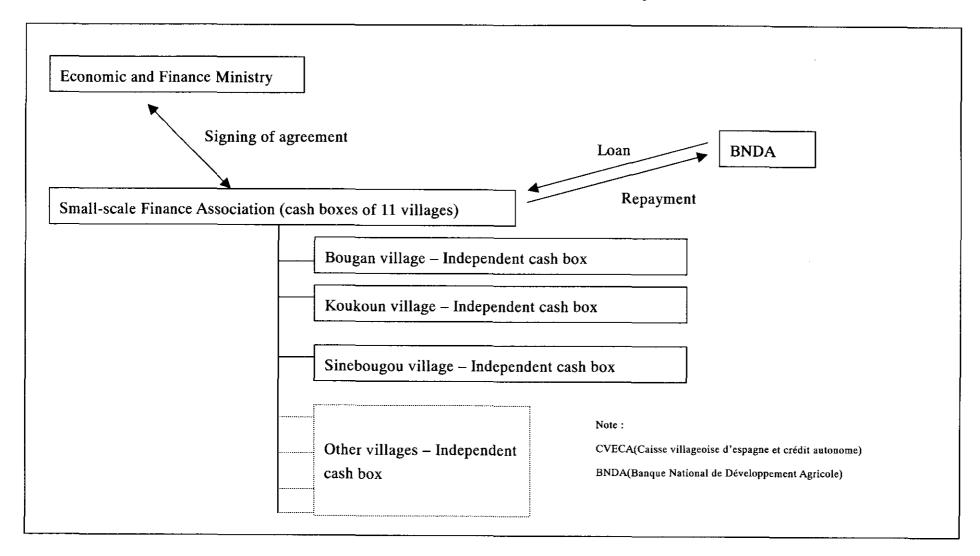


Figure 2.2.1.1 Structure of Small-scale Financial System

Figure 2.2.1.2 Structure of Small-scale Financial System ②



# 2.2.2 Fulfillment of BHN

Table 2.2.2.1 Monitoring Summary [Construction of Wells for Drinking Water]

	Table 2.2.2	T MINITOLI	ng Summary [C	onsti uction	OI MEIIS IOI	orinking wat	erj		
	Item	Content							
Purp	ose	To secure safe water for domestic use through the construction of modern wells							
		All water for wells.							
		Modern well     use tradition	lls have been construat wells.	ucted in some v	illages by aid ag	gencies, but most	villages still		
Back	ground		surrounding tradition		ude pollution	of the water, o	nerous well		
			or domestic use, the		y life, must be e	nsured by constru	cting modern		
			ection with the partic	cipation of reside	ents				
Verif	ication Items		ement by residents						
			n of one well per 50	00 people in eac	h village (includ	ling existing bori	ng wells and		
	Selection		e-diameter wells)						
	Requirements	_	nt of management r	ules and a mana	gement system l	by residents, prov	ision of free		
	-		ment to contribute to		-				
S <sub>II</sub>		lead address and the half behalfer and a present the same same	r a total of 10 w	·~··		ALLEAN	villages in		
Planning	D	Soigneboug	ou district were not:	included).			_		
$\mathbf{P}_{\mathbf{a}}$	Request Status	· According t	o the PRA survey, i	t was the top pr	iority request in	4 of the above vi	illages (wells		
		_	needed in the villag						
	6.1		ce with the constru		######################################	500 people, a tot	al of 6 wells		
	Selection	were selecte	d (excluding Soigne	bougou)					
	Decision	· 2 in Kokoun	i, 1 in Bougan, Cinza	na district: 2 in Z	ambougou, 1 in 1	N'Dinzanaware			
,		· Modern larg	ge-diameter well: Re	inforced concret	e structure with	a diameter of 1.8	m and casing		
	Standards/	on the inside of the well hole							
		Superstructure: 80cm section above ground, concrete bed extending 2m, concrete walls to keep							
	Structure	out livestock							
tent		Water drawing facilities: Installation of steel poles for drawing water, 4 holes for pulleys							
ju	Method/	Re-contracted locally to construction company							
) II	System	· Residents pr	ovided unskilled lab	or (5 persons/da	y for each well)				
Implementation Content		Year/District	Village	No. of Wells	Depth (m)	Cost (Fcfa)	Remarks		
Jen(		2000	Kokoun	2	17.85, 17.90	10,141,000			
len	Results (Costs)	Katiena	Bougan	1	22.20	5,736,000			
du J	Results (Costs)	2000	Zambougou	2	32.45, 34.9	16,200,000			
		Cinzana	N'Dinzanawere	1	33.4	8,075,000			
		Total		6		40,152,000			
	II Immed	<ul> <li>Japanese sp</li> </ul>	ecialists in living	environment im	provement (2 M	I/M), groundwate	er experts (2		
	Human Input	M/M), appro	opriate advice from	Mali C/P					
		Assurance of	f safe water for dom	estic use					
Antic	cipated Effects	<ul> <li>Implementa</li> </ul>	tion of appropriate	management by	residents (stric	t observance of	management		
		rules, regular cleaning)							
		<ul> <li>June-Noven</li> </ul>	iber 2000: Ascertai	nment of actual	l situation throu	gh PRA survey	and baseline		
	Implementation		earing of residents'						
	Implementation Process	• December 2	000: Discussion bety	ween CGTV and	Study Team and	formulation of pr	roject plan		
Ħ	Flocess	• January-Ma	rch 2001; Constructi	on of wells					
diti	***************************************	April 2001-	Commencement of	operation, guida	nce, monitoring				
ŎĪO,		<ul> <li>Managemen</li> </ul>	t group is responsibl	le for organizing	cleaning, monito	oring, etc.			
S		· Cleaning is	performed regularly,	mainly by wome	en who use the w	ell.			
iţi.	Management	· The rules a	re observed for the	most part. How	ever, the provis	ion prohibiting e	ntry wearing		
Activities Condition			observed in some vi						
V		· Livestock ha	ive been kept out co	mpletely.					
		· Use of the l	arge-diameter wells	that have been	constructed is in	creasing and use	of traditional		
	Use	wells is deci	easing, but the total	volume of water	drawn is rising.				
		As the water	is safe for drinking	it is used by res	idents from other	villages too			

Item	Content
Beneficial Impact	<ul> <li>The large-diameter wells that have been constructed are well used, increasing water for domestic use and contributing to the improvement of living standards.</li> <li>Drawing efficiency is not very different from traditional wells, but 4 people can draw water at the same time, reducing waiting time and providing greater convenience for residents.</li> <li>As few repairs are required and the well is fairly deep, residents are free from worry.</li> <li>The quality of the water from modern large-diameter wells is better than from other wells and the wells provide a supply of good quality drinking water.</li> <li>A management system has been established, cleaning is performed regularly and the well facilities are kept clean.</li> </ul>
Evaluation	<ul> <li>① Evaluation by residents (from the results of a questionnaire conducted on residents and participatory evaluation)</li> <li>89% of UPAs use the wells and 90% of UPAs know the content of the management rules.</li> <li>With regard to the effectiveness of the wells, ① 50% of UPAs regarded the water quality as good, and ② 33% of UPAs felt reassured that there was enough water in the dry season.</li> <li>According to the results of participatory evaluation, the wells were highly appraised by women whose task it is to draw water.</li> <li>Judging from the above results, the wells are highly appraised by residents.</li> <li>② Evaluation by the Study Team</li> <li>All the items in the selection standards relating to provision of labor, establishment of a management system, and contribution to the cost were fulfilled. In particular, the contribution to the cost was paid early.</li> <li>Under the selection standards [construction of one modern well per 500 people], residents of some sub-villages (clusters of houses away from the main village) cannot use the modern wells.</li> <li>As the wells relate to BHN for securing safe drinking water, they are urgently needed and are well managed by residents.</li> <li>As the wells require virtually no maintenance, no maintenance costs are required, making this type of well appropriate for the current living conditions of residents.</li> <li>Bore wells ensure excellent water quality and drawing efficiency, and judging from the present ability of residents to manage the wells and contribute to costs, large-diameter wells are appropriate.</li> <li>This project should be incorporated as an M/P project.</li> </ul>
Feedback to M/P	<ul> <li>Judging from the need for the project and the ability to contribute to the cost, the present contribution should be increased (Verification project: 150,000 Fcfa, M/P 300,000 Fcfa per well)</li> </ul>

Table 2.2.2.2 Monitoring Summary [Improvement of Roads]

	Item		.2 Monitoring		Content			
Purpos		To improve access to markets						
Backgr		• The sell who • Hov	infrastructure neces ing produce, medica ere there are markets. wever, access roads	sary for everyday I treatment and e to these market	educational facilities are inadequate	curement of materials, bases for es, is found in cities or villages and there are villages that are		
Verific	ation Item		ually inaccessible particle in and new construction and n			fresidents		
Planning	Selection Requirements	· Seld (lim · Esta · Pro Fefa	ected routes: Section nited to the district co ablishment of manago vision of free labor a	s where there is no evered by the veri ement rules and a	no road and passag fication project) management syste	e is difficult in the rainy season		
Ĭď	Request Status	requ	uested by 10 villages	according to the	PRA survey)	3 districts (Construction was		
	Selection Decision	· Kat · Dla		ougan; Cinzana : un II; Soignebou	Zambougou~Si			
	Standards/		lth: 4m, roadbed: 10-					
	Structure Method	· Re-	ssing: Sunken bridge contracted locally to sons/day).			inlined ditch at side s provided unskilled labor (15		
ontent		Yеаг 2000	Route Katiena district	Length (km) 4.6	Cost (Fcfa) 26,900,000	Remarks 1 crossing		
Implementation Content	Results (Costs)	2001	Cinzana district Cinzana district Soignebougou district	4.2 (4.2) 6.9	25,000,000 10,841,000 31,303,000	Roadbed (excluding crossing) 6 crossings 5 crossings		
Imple		2002	Cinzana district Soignebougou district	2.2 0.3	16,930,000 3,170,000	1 crossing 1 crossing		
				18.2	114,144,000			
	Human Input	fror	n Mali C/P			(2 M/M), appropriate guidance		
Anticip	ated Effects	• Securing of access to markets in rainy season						
	Implementation Process	· Jun and · Dec plar · Jan of r · Apr	<ul> <li>Establishment of road management by residents</li> <li>June-November 2000: Ascertainment of actual situation by PRA survey and baseline study, and hearing of residents' wishes</li> <li>December 2000: Discussions between CGTV and Study Team and formulation of project plan</li> <li>January-March 2001, December 2001-March 2002, October-December 2002: Construction of roads</li> <li>April 2001-: Successive commencement of use after completion, guidance, monitoring</li> </ul>					
Activities Condition	Management	· The · In I road CG · No Soig · In v the	<ul> <li>October 2002: Training in management techniques</li> <li>The management group meets about once a month and carries out inspections.</li> <li>In Katiena district they regularly clear the mud from the ditches, cut the grass and repair the road surface. They also planted roadside trees in 2001 and 2002 (independent decision by CGTV).</li> <li>No repairs have been performed in parts of Cinzana district and in the whole of Soignebougou district.</li> <li>In villages where maintenance is performed, the management group takes the lead and all the villagers carry out the maintenance.</li> <li>The management rules are observed.</li> </ul>					

Item	Content
Use	<ul> <li>The volume of traffic has increased 50-200% for all modes of transport (trucks, motorbikes, bicycles).</li> <li>The roads are used not only by villagers from surrounding villages but from a wide area. (They use paved roads even if it means going a slightly longer distance.)</li> </ul>
Beneficial Impact Seen	<ul> <li>Access to markets is assured even in the rainy season and traveling time is greatly reduced.</li> <li>The volume of traffic (trucks, motorbikes, etc.) has more than doubled due to road construction.</li> <li>Access to villages with markets is assured in the rainy season and it is possible to cope with illnesses, etc. in an emergency, relieving the worries of residents.</li> </ul>
Evaluation	<ul> <li>① Evaluation by residents (from the results of a questionnaire conducted on residents and participatory evaluation)</li> <li>95% of residents know the road management rules, but only 73% have participated in repair work.</li> <li>Evaluation of road construction is as follows: 1) it is possible to get to market in the rainy season: 62%, 2) it is possible to go to the clinic at night: 40%, 3) it is easier to get to school: 20%.</li> <li>According to the participatory evaluation, the project is highly appraised and was greatly needed, but awareness of the need for independent management is still low.</li> <li>② Evaluation by the Study Team</li> <li>Labor was provided more or less according to the selection standards.</li> <li>Land was provided without any problem (no payment was required)</li> <li>A management system and management rules were established, and management is performed by the residents themselves.</li> <li>The contribution to the cost of the carts used for road management was paid as planned.</li> <li>Judging from the above, all the items in the selection standards have been met.</li> <li>However, not all the villages are implementing maintenance work.</li> <li>Overall, the roads are well used and their construction has had a great effect.</li> <li>This project should be incorporated in the M/P.</li> </ul>
Feedback to M/P	<ul> <li>In the verification project, no payment of a contribution to the cost of constructing the roads was sought. However, judging from the effectiveness of the project and the ability to pay, a contribution of 50,000 Fcfa per km should be requested in the M/P.</li> <li>After construction, guidance in road management should be provided by extension workers.</li> </ul>

# 2.2.3 Stability of Farmers' Income

Table 2.2.3.1 Monitoring Summary [Supply of Improved Seeds and Fertilizers]

	Itam	Content
	Item	· · · · · · · · · · · · · · · · · · ·
Purpo	se	• To increase cereal production and promote cultivation techniques through the introduction of
•		improved seeds and chemical fertilizers
		· Degeneration of seeds, frequent occurrence of disease and pest damage and reduced yields are seen
		due to use of existing conventional seeds.
Background		· Cereal production fluctuates greatly from year to year due to climatic changes, causing food
		shortages for residents.
		<ul> <li>The unit yield varies due to soil conditions and disparity in farming skills.</li> </ul>
	-	· Deterioration of farm soil, reduced productivity and a drop in the self-sufficiency rate are evident due
		to population growth.
		· Promotion of cultivation techniques adapted to the introduction of improved seeds and chemical
Verifi	cation Items	fertilizers
VCIIII	cation items	Establishment and sustainment of improved cultivation techniques
		Increased cereal production through the use of seeds and fertilizers
	Selection	· Management by CGTV (Preparation of list of material distributors, management of contributions,
		etc.)
	Require-	• Agreement of residents to payment of contribution (70% of cost of procuring materials)
	ments	· Cooperation in surveys of production and yields
		• Following discussion with DRAMR, 3 types of seeds highly suited to local conditions were selected
Planning	D	and distributed by the CGTV according to the wishes of residents.
i iii	Request	· Similarly with fertilizers, phosphate rock powder, ammonia phosphate and urea were selected. In the
Pla	Status	second year residents were asked to state their preferences for type of fertilizer and only one village
		partly changed to a compound fertilizer.
		· Seeds were distributed only in the first year. Enough seeds for 20ha were uniformly allocated to each
	Selection	village and the CGTV was in charge of looking after them.
	Decision	• Enough fertilizer for 20ha was uniformly allocated to each village in the first year, and in the second
		year it was allocated in proportion to the number of UPAs in each village.
		[Varieties of seed and types of fertilizer]
	!	• Seeds: Millet = Toroniou C1, NKK, Sorghum = CSM63E
		• Fertilizer, soil conditioner: PNT (phosphate rock powder produced in Tilemusi), DAP (ammonium
	Standards/	phosphate), urea
= '	Structure	[Standards for use]
nter		Seeds: Millet 6kg/ha, sorghum 10kg/ha
Ī		Fertilizer: PNT 250kg, DAP 100kg, urea 50kg per ha
entation Content		· Seeds and fertilizer were delivered in bulk to the CGTV in each village. The CGTV was entrusted
ıtati	Method/	with distributing them to the UPAs.
	System	• A register of beneficiaries was drawn up and they were obliged to pay a contribution.
Implem	Results	• Fertilizer, etc.: 14,996,975 Fcfa for 480ha supply
[m]	(Costs)	• Seeds and seed disinfectant: 338,760 Fcfa for 240ha supply
		Study Team> Mainly guidance through local coordinators
	Human	<c dramr,="" etc.="" p,="" slacaer=""> Guidance in cultivation techniques (Total approx. 150 man days)</c>
ļ	Input	<12 UPAs> Establishment of 1ha fields for monitoring (provision of farm labor, rendering of services)
		such as bookkeeping)
	1	· Acquisition of cultivation techniques, fertilizer application techniques and improved compost making
Benef	icial Impact	techniques
Seen		Improvement of unit yield of produce
		• Technical guidance in the field was provided after the materials were distributed in 2001 and 2002.
S E	Implemen-	•
Activities Condition	tation	· A total of 30 monitoring fields were established in addition to the 12 Detail Investigation UPAs
Cti	Process	fields, and the progress of growth was followed once a month and technical guidance provided at
C	1 10003	each stage of growth. At harvest time the yield was surveyed and the effectiveness of the materials checked.
		URUACU.

	Item	Content
		· The CGTV stores the seeds and fertilizers in the village storehouse and manages them to prevent
		deterioration due to excessive humidity. They are distributed to the UPAs for use. Guidance is
		provided in the use of disinfectants when sowing.
	Manage-	· In Soignebougou district, Sakoibougou village was the first to collect the full contribution borne by
	ment	residents plus an extra 1,000 Fcfa in an effort to extend the project. Another 4 villages in the district
		followed suit.
		· Contributions are collected after the cereal harvest.
	Use	· Used by virtually all UPAs. Cultivation training was provided, but detailed implementation was left
	USC	up to the UPAs.
		· As 2001 was a bumper year (about twice the average unit yield of the previous few years) following
		the extremely poor harvest the year before (2000), residents appraised the project highly.
		· A major cause of the increased yield was the favorable rainfall conditions, but the synergistic effect
		of using improved seeds and fertilizers and technical training can also be seen.
		· Reaction to the poor harvest in the previous year (2000) and the rise in commodity prices following
<u> </u>		holding of the soccer African Cup in Mali caused the price of cereals to rise two or three times
1.	icial Impact	compared with 2000 and this had a beneficial effect on agriculture. Consequently, payment of the
Seen		contributions for farming materials was smooth.
	i	• The unit yield in 2002 fell well below that of 2001. This was due to the lack, late arrival and
		irregularity of the rain. On average, tilling and sowing were about two weeks later than in 2001.
		Growth was delayed and at the same time the seedlings in some of the fields that had been sown early withered and died and had to be replanted.
-		• As a result, problems arose regarding payment of contributions. Influenced by the poor harvest, the
		price of cereals on the market rose to about twice that of average years.
		[Improved seeds]
		• Over 80% of UPAs use traditional varieties. On average, improved seeds are used in about one-third
		of UPA fields. 60% of UPAs participated in trainings on improved seeds.
		• Evaluation after use focused on relatively easy cultivation techniques, reduced disease and pest
		damage and greatly increased yields, and in no case were the improved seeds regarded as bad.
ĺ		• Over 90% of UPAs want to use the newly introduced varieties in future, and over 95% of UPAs
		intend to introduce them by their own efforts without aid. However, they want continued guidance in
		cultivation techniques in future (95%).
		[Soil conditioners, chemical fertilizers]
		• 96% of UPAs have experience in using chemical fertilizers and know the effectiveness of fertilizers.
		They nearly all use compost and its use is well established in the region. The question is how to
Evalu	ation	improve the quality of the compost and enhance its soil improving and fertilizing effects
		• The types of fertilizer that were introduced and the effects of its use were also highly evaluated and
		most people wanted to introduce them by their own efforts without aid.  [Summary]
		• It was more or less confirmed through the verification project that residents can easily accept the
		introduction of production materials such as improved seeds and fertilizers.
		• The reasons for this are that technically they are not that difficult to master, the effects are
		considerable and visible, and the time required to recover the funds invested is short.
		· Consequently, this component has adequate feasibility and sustainability and is judged appropriate
		for adoption in the MP.
		· However, in order to widely promote this component and ensure its sustainability, it is essential to
		create an environment in which funds for initial materials can be procured and establish a system for
		promoting cultivation techniques.
		• The supply of production materials depends on private economic behavior and even if it leads to
		reduced soil deterioration or eventual prevention of desertification, it has little of the nature of a
		project directly for the public good. Essentially, this program should deal with microcredit.
Feedt	ack to M/P	· However, under the contribution system used in this verification project, it was also confirmed that
	•	the contributions to the production materials contributed greatly to the establishment of a village
		fund. As a means of establishing a microcredit fund, it was judged that only the initial cost (a grant of
	i	20% for 1 ha per UPA) should be covered by public costs. The remaining 80% of residents'
		contributions should be deposited by the CGTV as microcredit resources.

Table 2.2.3.2 Monitoring Summary [Vegetable Cultivation by Small-scale Irrigation]

	ault 4.4.5.4	Withing Summary (vegetable Cultivation by Sman-scale Itrigation)
	Item	Content
Purpos	e	<ul> <li>To cultivate vegetables during the dry season using small-scale irrigation facilities (a combination of small-scale water sources such as a well or marsh and metal fences to keep out livestock).</li> </ul>
Background		<ul> <li>Income-generating activities in the survey area are limited and residents lack the means to obtain a cash income.</li> <li>For this reason, there is a lack of commodities that are hard to produce in the village, such as agricultural tools and medical supplies.</li> <li>To improve this situation, many residents wish to cultivate vegetables during the dry season as this would offer the prospect of earning money in the village during the slack farming season when they are relatively free and would also improve their nutritional condition.</li> <li>However, as the rivers and lakes in the survey area that would be the source of water during the dry season are poor and there are no irrigation facilities, it is not easy to grow vegetables during the dry season.</li> <li>Moreover, fences are needed to keep livestock out of the vegetable fields, but there is a lack of materials as a result of the depleted forests.</li> <li>Implementation of training in vegetable cultivation techniques and in maintenance and</li> </ul>
Verific	ation Items	management of the facilities  Construction of small-scale irrigation facilities with the participation of residents  Cultivation of vegetables during the dry season and maintenance and management of the facilities by residents
	Selection Requirements	<ul> <li>Establishment of management rules and a management system by residents</li> <li>Provision of free labor for construction and agreement to pay a contribution (150,000 Fcfa for each well or marsh that serves as a water source, and 200,000 Fcfa for each vegetable field)</li> <li>Provision of land</li> </ul>
Planning	Request Status	<ul> <li>Requests for construction in a total of 9 places were received from 5 out of 7 villages (5 villages in Soignebougou district where other development projects already exist are excluded)</li> <li>Requests were received for extension of the deadline for payment of contributions (because vegetable cultivation in the dry season is mainly the task of women who have little cash income)</li> </ul>
	Selection Decision	<ul> <li>8 places were selected excluding 2 villages where irrigation projects are being implemented by other aid agencies (2 places in Kokoun, 1 in Bougan, 2 in Dlaba, 2 in Zambougou, 1 in N'Dinzanawere)</li> </ul>
-	Standards/ Structure	<ul> <li>Well: Modern shallow well (Reinforced concrete structure with a diameter of 1.8m)</li> <li>Marsh: Constructed by extending existing marshes (Zambougou: 5,743m³, Dlaba: 3,736m³)</li> <li>Vegetable field: Provided with a fence to keep out livestock (metal fence, gate)</li> </ul>
on Content	Method/ System	<ul> <li>Re-contracted locally to a construction company</li> <li>Unskilled labor is provided free by residents</li> </ul>
Implementation Conte	Results (Costs)	<ul> <li>99,521,202 Fcfa (digging of 8 wells, construction of 2 marshes, preparation of 4.65ha of vegetable fields)</li> <li>660,000 Fcfa (training in vegetable cultivation and maintenance and management of facilities)</li> </ul>
dwl	Human Input	<ul> <li>Technical training and supervision of construction work were provided for the construction company by the Study Team.</li> <li>Training in vegetable cultivation and maintenance and management of facilities was provided for residents by Mali C/P.</li> </ul>
Anticip	pated Effects	<ul> <li>Higher income and better nutrition through appropriate vegetable cultivation</li> <li>Appropriate maintenance and management of small-scale irrigation facilities</li> </ul>

	Item	Content
		<ul> <li>Management organizations were established by residents in all the villages and management rules were laid down.</li> </ul>
	Implementation Process	<ul> <li>Contributions were paid as planned in all the villages and labor was provided.</li> <li>Vegetable fields were allotted in all the villages (over 2/3 to women) and vegetables were cultivated.</li> <li>Training in maintenance and management of the facilities and in vegetable cultivation were held in all the villages and over half of the vegetable growers have received training.</li> <li>News spread of the vegetable cultivation project in Bougan, resulting in a request for guidance in vegetable cultivation techniques to the Study Team from the neighboring village of Kaya.</li> </ul>
ondition	Management	<ul> <li>Management of the facilities based on the management rules and monitoring and cleaning by residents are being implemented in all the villages.</li> <li>Wire netting, gates, pulleys etc. are regularly repaired in all the villages.</li> <li>Marsh repairs and soil conservation measures were implemented by residents in Zambougou and Dlaba. Trees were also planted around the marsh.</li> </ul>
Activities Condition	Use	<ul> <li>Vegetable fields irrigated by wells have been used since November 2001 and vegetables are grown.</li> <li>In the initial plan two crops were expected each dry season, but due to ① a growing number of seedlings withering and dying through lack of water and ② a lack of desire to work in high temperatures, only one crop was possible.</li> <li>Vegetable fields irrigated by marshes have been used since August 2002, but use is poor and to date almost no crops have been planted. The reasons for this are: ① residents were busy harvesting millet, their staple food, and were unable to grow vegetables, ② marsh water is used to water the livestock as well as for washing, breeding fish, etc. and villagers refrained from growing vegetables out of fear that the marsh would dry up, and ③ the vegetable growers were working away from the village so there was insufficient labor. It was found that residents placed high priority on using the marsh water other than for irrigation.</li> <li>The rate of vegetable seedlings taking root improved in all the villages through training and improvement in cultivation techniques was seen. However, there was a lot of disease and pest damage and yields of produce that is difficult to grow, such as cabbages, were poor.</li> </ul>
Benet	icial Impact Seen	<ul> <li>Incomes have risen 1,400-7,800 Fcfa (average approx. 5,000 Fcfa) per person and the social position of women is improving.</li> <li>About half of the vegetables that are grown are used for their own consumption, improving their diet. In addition, expenditure on food is decreasing because vegetables are easy to obtain.</li> <li>The project is acting as a model, for example villagers in Zangourabougou II which did not initially choose vegetable growing as a verification project have started making their own vegetable fields.</li> <li>It has also had the effect of enhancing residents' sense of independence. For example villagers in Bougan have installed their own pump.</li> </ul>
Evalu	ation	<ul> <li>Ownership of the facilities is high and maintenance and management are actively implemented.</li> <li>Residents are eager to acquire technology, but find it difficult to master as they have little experience. It was not easy to improve the technology level.</li> <li>①As the period when marshes can be used is short (October-January) and ② they are used to water livestock and breed fish, residents voluntarily limit how much water they use. For this reason, it is difficult to fully utilize marshes as a source of water for growing vegetables.</li> <li>As an overall evaluation, excluding review of the construction of marshes, the project is feasible and should be incorporated in the M/P.</li> </ul>
Feedb	eack to M/P	<ul> <li>As villages other than those covered by the project want to grow vegetables, technical training for residents to create their own vegetable fields should be planned to include neighboring villages and added to the M/P.</li> <li>There is no prospect of adequately improving cultivation techniques in one training. In order to teach high level techniques in stages in line with the level of technology, training in vegetable growing should be divided into three stages, elementary, intermediate and advanced.</li> <li>Marsh construction should not be incorporated in the M/P.</li> </ul>

Table 2.2.3.3 Monitoring Summary [Construction of Cereal Banks]

£			Withing 54		distruction of Cereal Danks				
	Item		10 000 1 1		Content				
Pur	pose				rove the income of residents				
			-	•	focuses on cereals, particularly millet.				
				-	harvested (e.g. 35 Fcfa/kg). In order to obtain cash				
_	_	income, farmers have no choice but to sell most of their produce at this price.							
Bac	kground				on (May-August) when food is short, millet is resold				
		1			d are buying millet for cash at the above price.				
					s based in the villages in order to correct the food				
<del>                                     </del>	1.00 .1 W.	•	nce and improve the		•				
Ver	ification Item	,			ment of management by residents				
		1	sting effective cereal	•					
	Selection	ł.			management system by residents				
	Requirements	1	on of free labor and	-					
ng					ion of 120,000 Fcfa (equivalent to 20% of the cost of				
Planning	D		cing materials and e						
Pla	Request Status				om 10 out of 12 villages				
	Calantina				on was narrowed down to one village in each district				
	Selection	1	ensive operation gui	_					
	Decision		-	, Cinzana disti	cict: Zangourabougou II, Soignebougou district:				
	Stor donday	Faboug		a mode of bone	na magazzina 5v9m				
	Standards/ Structure		g: One-story buildir se of equipment such						
	Structure								
ten	Mathad/	Re-contracted to local consultant (procurement of materials, construction guidance, execution							
ļ ņ	Method/	of construction work that is too difficult for residents, training and guidance in banking operations)							
0 10	System	· Construction of building by residents (10 persons/day)							
Implementation Content		Year	No. of buildings	Cost (Fcfa)	Remarks				
Jen!		2001	3	12,529,000	Including construction, training and guidance costs				
len	Results (Costs)	2001	(3)	5,369,000	Training, follow-up, monitoring				
lmp		Total	3	17,898,000	Training, 10110w-up, momenting				
			L.,	L	improvement (2 M/M), appropriate guidance by Mali				
	Human Input	C/P	se specialists in fivin	g chvironinent	improvement (2 m/m), appropriate guidance by man				
			nce of self-sufficient	ry in food in the	village				
Ant	icipated Effects	<ul> <li>Assurance of self-sufficiency in food in the village</li> <li>Establishment of appropriate management and operation of cereal bank by residents</li> </ul>							
					ctual situation by PRA survey and baseline study and				
		1	of wishes of resider		and studion by 110 is survey and baseline study and				
Ę.	Implementation	_			and Study Team and formulation of project plan				
) nd	Process		<ul> <li>January 2001: Discussion between CGTV and Study Team and formulation of project plan</li> <li>December 2001-March 2002: Construction of buildings, purchase of milling machine, training</li> </ul>						
Activities Conditio		• May 2002: Commencement of operation, guidance, monitoring							
ij.					agement rules established.				
ļ Ņ.	Management				naged by the management groups.				
¥		Of the stocks stored in the bank as of April 2002, nearly all had been loaned out by July.							
	Use	• Although the plan allowed for initial stocks of 34t, only 15.5t was achieved.							
_	Initial				he Study Team contributing 50% each.				
Operation			Í		- 2				
per	Stocks Loan of	· Cereals	are loaned in the	pre-harvest sea	son (May to August) and returned in kind (cereals)				
0	Cereals	1	% interest at harves						
					been loaned out, and according to the questionnaire				
Ben	eficial Impact				nks were using them				
See	<del>-</del>				harvest was poor, but the food shortage was relieved				
			tain extent by the fu						
			•						

Item	Content
Evaluation	① Evaluation by residents (from the results of the questionnaire conducted on residents and participatory evaluation)  **80% of residents replied that they use the cereal bank and 96% of residents want to use it again, demonstrating the effectiveness of the project.  On the other hand, in villages where cereal banks had been established, only 15% of residents bought cereal from the market, demonstrating the role of the cereal bank in achieving self-sufficiency in food in the villages.  ② Evaluation by the Study Team  1 Effects of the project  As the project is closely linked to survival, it is very much desired by residents and is greatly needed.  2 Regarding the selection standards,  labor and land were provided without any problem (no compensation was required)  a management system and management rules were established, and management is performed by the residents themselves  a contribution equivalent to 20% of the cost of equipment such as scales was paid virtually as planned  the initial stocks were not secured as laid down in the selection standards  judging from the above, the selection standards were met with the exception of the initial stocks  Securing of stocks  Discussions were held with the villages on plans to build up stocks at harvest time in 2002, but the harvest was poor and stocks were not secured as planned.  Bookkeeping and accounting  Immediately after commencing operation, the books were not kept up to date due to the low level of literacy of the people in charge of accounting, but with additional guidance later, they were able to carry out their bookkeeping duties.  Repayment  As of December 2002, 61% of the loans made in 2002 had been repaid (including interest) and the system is working reasonably well. Residents observe the management rules when borrowing and repaying cereals.
Feedback to M/P	<ul> <li>Securing the initial stock is the key condition for stable operation, and extension workers should provide guidance to ensure that ① a penalty clause is included in the selection standards placing an obligation on residents, and ② accumulation of the initial stock starts from the year prior to construction.</li> <li>In the verification project, residents paid a contribution equivalent to 20% of the cost of the scales, etc. As considerable profit is generated if the bank is operated as planned, residents should pay a contribution of 200,000 Fcfa for the building and 30% of the cost of the equipment.</li> <li>Extension workers should provide repeated follow-up guidance for those in charge of accounting.</li> </ul>

Table 2.2.3.4 Monitoring Summary [Construction of Vaccination Facilities]

	Item				Content							
Pur	pose	<ul> <li>To reduce loss of livestock due to disease through the permeation of livestock health management</li> <li>For residents to acquire knowledge of livestock health and establish a joint management system with the vaccination facilities</li> </ul>										
Background		· Lack of a liveste vaccinations, by	<ul> <li>Lack of a livestock health infrastructure and inadequate knowledge of health measures, such as vaccinations, by herders lead to major loss of livestock through disease and infection carried by external and internal parasites.</li> </ul>									
Ver	ification Items	Training in livest     Construction of     management by	facilities thro	-	•		labor, a	and main	tenance and			
	Selection Requirements	Establishment of     Residents contri     construction free	bute 20% of the		-	-		ed labor :	and land fo			
Planning	Request Status	Construction was requested by 7 villages in 3 districts										
Pla	Selection	<ul> <li>As a result of laying down selection requirements according to the layout of the village and the number of livestock (1 place for 500 UBT) in villages with no existing facilities, construction was planned in 5 villages in 3 districts.</li> <li>Construction was planned in 3 places in 2001 and 2 places in 2002.</li> </ul>										
	Structure	<ul> <li>Taking into consideration durability and safety, the paddock and corral walls are made of concrete blocks and the pillars are made of reinforced concrete.</li> <li>In 2001 the gate was made of steel poles, but in 2002, out of consideration for durability, it was changed to bar to keep horse.</li> </ul>										
	Method	<ul> <li>In 2001 the work was re-contracted to the Ségou branch of the Rural Development Bureau (construction work, training in maintenance and management techniques for residents).</li> <li>In 2002 it was ordered from BEAGGES.</li> <li>Residents provided unskilled labor.</li> </ul>										
tent		Vaca/Distaint	Tues	No. of	Cant (Enfo)	No. of training		ants in	Provision			
Implementation Content		Year/District Ty	Туре	places	Cost (Fcfa)	Inspec- tion	In- doors	In the field	of labor			
entatic		2001/ Katiena Bougan_	A (paddock 20×20m)	1	6,102,900	11	5	21	460			
mplen		2001/ Cinzana Zangourabougou2	B (paddock 10×10m)	1	4,231,550	4	3	11	375			
Ι	Results	2001/ Soignebougou Dafimbougou	B (paddock 10×10m)	1	4,231,550	8	5	12	400			
		Total		3	14,566,000	1	Ţ	_				
		2002/ Katiena Kokoun	B (paddock 10×10m)	1	4,927,000	10	5	10	350			
		2002/Cinzana N'Dinzanawere	B (paddock 10×10m)	1	4,927,000	8	3	12	300			
			1	_	0.054.000	I	1	1	1			
	icipated	Total  • A maintenance a		2	9,854,000	L		L				

	Item			(	Content					
	Implementation Process	<ul><li>Establishment o</li><li>Establishment o</li><li>Construction of</li><li>In both 2001 and</li></ul>	f CGTV (December of Stock-raising metacilities: 2001 (and 2002, the constant)	ber 2000) anagement rules June 2001-Janua ruction period of	(June-December 2000)  (January 2001)  ry 2002), 2002 (September 2002-October 2003)  f the facilities fell in the busy farming period during the rovide labor and resulting in delays in completing					
		Village	Management System	Rules	Management/Use					
ndition		Bougan	Established	Established	509 head of cattle were vaccinated in January 2001 and 22 in April, and a total of 25 UPAs used the facilities at a cost of 125 Fcfa/head (100 Fcfa for vaccine, 25 Fcfa (or 50 Fcfa for outsiders) for use of the facilities)					
Activities Condition	/Use	Kokoun	Established	Established	Completed in October 2002.  Fee: 125 Fcfa/head (100 Fcfa for vaccine, 25 Fcfa (or 50 Fcfa for outsiders) for use of the facilities)					
Ac	Management/Use	Zangourabougou II	Established	Established	187 head of cattle were vaccinated in January 2001 and 24 in August, and a total of 12 UPAs used the facilities at a cost of 175 Fcfa/head (150 Fcfa for vaccine and 25 Fcfa for use of the facilities)					
	V	N'Dinzanawere	Established	Established	Completed in October 2002 200 head of cattle were vaccinated in January 2003 at a cost of 175 Fcfa/head (150 Fcfa for vaccine and 25 Fcfa for use of the facilities)					
		Dafimbougou	Established	Established	519 head of cattle were vaccinated in January 2001, and a total of 12 UPAs used the facilities as well as people from other villages. The fee for using the facilities is the same as for Bougan.					
Beneficial	Impact Seen	and management Looking at the v	t system was esta accination record	blished. d, 48% of the live	lages where facilities were constructed and a maintenance estock in Bougan was vaccinated, 95% in Zangourabougou expectations from the very first year.					
	Evaluation	<ul> <li>60% of users in Dafimbougou come from villages other than those participating in the project, showing the high level of interest among surrounding villagers. This is also good for operation of the vaccination facilities.</li> <li>Residents are well aware of the significance of constructing vaccination facilities and the facilities are highly appraised by residents in the villages where they have been built. In a questionnaire conducted on residents, 99% of respondents said they were satisfied with the vaccination facilities that had been built.</li> <li>83% of respondents to the questionnaire said they were satisfied with the management system for operating the facilities, and the establishment of management rules by the Stock-raising Specialized Group had the effect of causing residents to organize themselves.</li> <li>In the verification project, it was not possible to confirm that vaccinations had caused the occurrence of disease in livestock to drop.</li> <li>The facilities are essential for improving livestock product production and should be incorporated in the</li> </ul>								
	Feedback to M/P	ensure appropriation is the best way livestock, and in Residents contribenefit provided	te use of pasture to prevent loss of turn, it should be buted 20% of the	and causes incre of livestock and e incorporated in ne cost of equip a contribution or	e number of head of livestock. This makes it difficult to easing desertification. Construction of vaccination facilities is also an effective means of ascertaining the number of the M/P as a way of preventing desertification.  The ment for the facilities, but judging from the high public of 150,000 Fcfa should be made for each type A facility and					

Table 2.2.3.5 Monitoring Summary [Manufacture of Nutritional Blocks and Sheep Fattening]

Purp	Item ose	. To increase live		Co								
		• To increase livestock productivity by improving nutrition in the dry season										
Background		• To try to improve the living conditions of women in particular, using sheep fattening as a source of cash income										
		<ul> <li>Livestock produ</li> <li>Better nutrition increased livesto</li> <li>There are few so</li> </ul>	ctivity is poor due to the through feeding nutrition ock productivity. Durces of income for vil- ing a source of cash inco	nal blocl lage wor	ks with a nen in th	high mineral	and protein	content v	will lead to			
Verii Item	fication s	· Implementation	of training for residents nutritional blocks by res	in the m	anufactu							
Planning Selection Requirements		<ul> <li>Establishment of rules for management of the facilities by residents</li> <li>Manufacture of blocks, attendance at purchase of sheep and management of sheep fattening by residents</li> <li>Introduction of one set of block manufacturing equipment per 150 head of sheep currently being raised</li> <li>Contribution of 20% of the cost of procuring the materials and equipment and 100% of the cost of purchasing the feeder stock of sheep</li> </ul>										
Plk	Request Status	equipment from Request for pure	<ul> <li>Request for procurement of a total of 18 sets of nutritional block manufacturing materials and equipment from 10 out of 12 villages</li> <li>Request for purchase of 180 head of feeder stock of sheep from 10 out of 12 villages</li> <li>After commencement of verification project in 2001, request for additional implementation from each</li> </ul>									
F	Selection	• The request for 18 sets was selected, with 9 sets introduced in 2001 and the remainder in 2002.										
	Standards	• Introduction of 10 head of feeder stock of sheep per set of nutritional block manufacturing materials and equipment										
	Method	<ul> <li>The equipment procured by the Study Team comprised, per set, 1 drum can, 10 bowls, 1 shovel, 1 bucket. The materials comprised 150kg cement, 100kg salt, 286kg molasses, 100kg urea.</li> <li>Residents procured millet powder and water.</li> <li>In 2001 nutritional blocks were used to fatten the sheep, but as some sheep ate them and others did not, in 2002 the mixing proportions were changed.</li> </ul>										
						Cont	No. of Par	ticipants	in Training			
		Year/District	Village	Unit	Q'ty	Cost (Fcfa)	Inspec- tion	In- doors	In the field			
tent		4004 (TF.:)	Bougan	Set	1		11	5	7			
<u> </u>		2001 /Katiena	Kokoun	"	11_		10	5	12			
Implementation Con			Dlaba	Set	1		8	3	13			
atio			N'Dinzanawere	"	1		8	3	12			
ent		2001/Cinzana	Sinebougou	"	1		8	3	12			
le l			Zambougou	"	1		8	4	{			
E	D 1	•	Zangourabougou2	"	1		4	3	1:			
7	Results	2001/	Dafimbougou	Set	1		8	5	14			
		Soignebougou	Fabougou	"	1		8	5	10			
ĺ		Total		Set	9	3,703,500	73	36	100			
		2002 /	Bougan	Set	3		Field trai	ining im	plemente			
		Katiena	Kokoun	"	4		from Dece	mber				
		2002/	Zambougou	Set	1		Introduction	on of fee	eder stock			
		Cinzana					started in S	Septembe	r			
		2002/ Soignebougou	Dougoutiguibougou	Set	1							
		Total			9	3,132,500						
Anti Effe	cipated cts		oups are established and is carried out efficiently		nal bloc	ks are manufa	ctured by w	omen.				

Ite	em					Co	ntent							
	Implementati on Process	<ul> <li>Implementation of</li> <li>Establishment of</li> <li>Establishment of</li> <li>Block manufactu</li> <li>2003)</li> </ul>	CGTV (Dece stock-rasing	mber manag	2000) gemen	) it rules (J	anuary 200	1)	:002 (Augu	st 2002-Fe	ebruary			
		<ul> <li>Sales performance head of sheep).</li> </ul>	e of feeder st	ock in	trodu	ced in 20	01 is show	n in the table	below (ave	rage figure	es for 9-10			
		Name of village	Weight at time of introduction (kg)	Weight at	time of safe (kg)	Fattening period (days)	Daily weight gain (g)	Purchase price (Fcfa)	Selling price (Fcfa)	Income (Fcfa)	Income (Fcfa/kg)			
		Bougan	25.5		30.2	157	31	19600	25200	5600	1197			
]		Kokoun	32.4		38.0	83	146.	19800	24800	5000	551			
		Dlaba	31.9		45.5	105	129	21400	31550	10150	746			
.io		N'Dinzanawere	30.7		43.3	105	120	19300	25300	6000	477			
ndit		Sinebougou	27.9		41.1	105	125	18500	27900	9400	712			
3	43	Zambougou	28.9		41.1	105	117	19100	25750	6650	543			
Activities Condition	Ç.	Zangourabougou2	30.4		48.0	105	111	17500	25400	7900	675 769			
Į įį	ent/	Dafimbougou Fabougou	21.3 24.7		32.8 33.5	91 91	126 96	18175 18050	27000 25350	8825 7300	833			
₹	Management/Use	The fattening progre								1 7300	000			
	апа	The famouning progre	T				Weight gair		·					
	Σ	Name of village	Weight at t			ght in ember	from time o	Weight ga	in	Remarks				
			(kg)		(kg)		introduction (kg)	(g)	Result	Results of 46 days fattening				
1		Bougan		26.0	35.0		10	.5 228	.2 Averag	Average for 30 head				
		Kokoun		27.6	37.9		10	.3 223	9 Averag	Average for 40 head				
		Zambougou		27.5	39.0		11	.5 264	.6 Averag	Average for 10 head				
		Dougoutiguibougou		24.3			8			Average for 10 head				
		Average 26.3 37.0 10.7 231.8												
		• In 2002 feeder stock for fattening started to be introduced in September when the price was relatively low.												
		90 head of feeder stock weighing around 25kg were introduced and 4 died. The average daily weight gain												
			was more than double that of the previous year.  Manufacture of the nutritional blocks coincides with the busy farming season and is carried out from											
		December onward												
		was increased 5%		-			_		,					
		· A growing trend	was seen in	the v	illage	s of wor	nen's organ	nizations acti	vely securi	ng a sour	ce of cash			
		income.												
		· Efforts were made	-		rition	in the d	ry season l	by feeding sh	ieep nutriti	onal block	cs and the			
Benef	ficial	effects were seen					arranana da	عطمئمين برائر	aia avaaall	of Aug.	100a Tha			
Impac	et	• Fattening in 2001 showed good results with an average daily weight gain overall of over 100g. Th average income exceeded 10,000 Fcfa in some villages and the results were good in terms of profits.												
Seen	į	• In 2 villages in S					-		_					
	ĺ	feeder stock (100	-											
	{	• In 2002, though :								ge daily w	eight gain			
		overall in excess												
Evalu	ation	• From the results	-					_						
		feeder stock cont		_			ved. As goo	od results wer	e achieved	in fattenir	ıg, 61% of			
		residents made a	-				ra antina «L	a blocks se 4	others not	All recides	nte did sat			
		<ul> <li>Problems remained evaluate the nutri</li> </ul>						e diocks and	otners not.	All reside	מנג מום ווטנ			
1		• The project was e						and should be	incorporat	ted in the l	M/P.			
		• The nutritional b												
Feedb	ack	and extension wo							-	_				
to M/.	P	· Mali has little ex	-							e for this	to spread.			
		Extension worker	s should prov	vide g	uidan	ce to resi	dents to pro	mote use of t	he blocks.					

Table 2.2.3.6 Monitoring Summary [Construction of Improved Poultry Houses and Introduction of Poultry Breeding]

	Item				ntent								
Pι	ırpose		ductivity by improving th				ıd introducir	ng poultry b	reeding				
		• To improve living conditions by securing a source of cash income  • Poultry productivity is extremely low due to fowl being kept extensively outside, no administering of											
Ba	ackground	vaccinations, and breeding using existing varieties (death rate for poultry exceeds 50%).											
	erification		· Implementation of technical training in construction of poultry houses and improved poultry raising for										
Selection		· Construction of	poultry houses and breed	ling manag	ement b	y residents							
	Selection	Construction of poultry houses by manufacture of banco and provision of labor by residents											
	Require-	· Construction of	one poultry house per 10	0 existing	fowl	•	•						
30	ments	· Agreement of	residents to contribution	of 20% of	of cost of	of procuring	equipment a	nd 100%	of cost o				
Planning		<ul> <li>Agreement of residents to contribution of 20% of cost of procuring equipment and 100% of cost of introducing breeding stock</li> </ul>											
Fla	Request												
	Status				_								
	Selection	· Construction of	14 poultry houses was p	lanned for	2001 and	the remainir	ig 13 for 200	)2					
		· The walls of th	e poultry house are mad	le of bance	with z	nc roofing, a	nd the exerc	cise yard h	as a fenc				
	Standards	made of steel po	oles and wire netting.										
	/Structure		3 breeding cocks per hou										
		As Rhode Island	d Red breeding cocks we	re difficult	to obtair	in 2002, Isal	prown were	substituted.					
		<ul> <li>Distribution of</li> </ul>	building materials, disir	nfectors ar	ıd breed	ing stock to	DRAMR as	nd commiss	sioning o				
	Method	construction gu	idance for residents										
	Memon		d for construction and m										
		Construction of poultry houses by residents with guidance from DRAMR											
		Year/District	Village			Cost	No. of Participants in Training						
				Unit	Q'ty	(Fcfa)	Inspec-	In-	In the				
			<u> </u>	<u>_</u>		()	tion	doors	field				
		   2001 /Katiena	Bougan	Bldg.	3		11	5	-				
-		2001/11211011	Kokoun	n -	1		10	5					
ater			Dlaba	Bldg.	2		8	3	- 2				
اق		2001/Cinzana	N'Dinzanawere	,"	2		8	3	- 2				
[ [			Sinebougou	"	1		8	3					
;;			Zambougou	"	1		8 j	4					
Ħ١			1	1	1								
ment			Zangourabougou2	<u> </u>	1		4	3					
plement		2001/	Sakoibougou	Bldg.	1		8	5					
Implement	ults	2001/ Soignebougou	Sakoibougou Siradoba	"	1		8	5					
Implement	Results	Soignebougou	Sakoibougou	"	1 1 1		8 8 8	5 5 5					
Implement	Results		Sakoibougou Siradoba Dougoutiguibougou	" Bldg.	1 1 1 14	2,676500	8	5	1.				
Implement	Results	Soignebougou	Sakoibougou Siradoba Dougoutiguibougou Bougan	" Bldg. Bldg.	1 1 1 14 2	2,676500	8 8 8	5 5 5	1				
Implement	Results	Soignebougou Total	Sakoibougou Siradoba Dougoutiguibougou Bougan Kokoun	Bldg.	1 1 1 14 2 1	2,676500	8 8 8	5 5 5	1				
Implement	Results	Soignebougou Total	Sakoibougou Siradoba Dougoutiguibougou Bougan Kokoun Dlaba	Bldg. Bldg. Bldg.	1 1 1 14 2 1 2	2,676500	8 8 8	5 5 5	1				
Implement	Results	Soignebougou  Total  2002 /Katiena	Sakoibougou Siradoba Dougoutiguibougou  Bougan Kokoun Dlaba N'Dinzanawere	Bldg. Bldg. "Bldg. "	1 1 14 2 1 2 2	2,676500	8 8 8	5 5 5	1				
Implement	Results	Soignebougou Total	Sakoibougou Siradoba Dougoutiguibougou  Bougan Kokoun Dlaba N'Dinzanawere Sinebougou	Bldg. Bldg. Bldg. "	1 1 14 2 1 2 2 2	2,676500	8 8 8	5 5 5	1.				
Implement	Results	Soignebougou  Total  2002 /Katiena	Sakoibougou Siradoba Dougoutiguibougou  Bougan Kokoun Dlaba N'Dinzanawere Sinebougou Zambougou	Bldg. Bldg.  Bldg.  "" "" ""	1 1 14 2 1 2 2 2 1	2,676500	8 8 8	5 5 5	1				
Implement	Results	Soignebougou  Total  2002 /Katiena	Sakoibougou Siradoba Dougoutiguibougou  Bougan Kokoun Dlaba N'Dinzanawere Sinebougou Zambougou Zangourabougou2	Bldg. Bldg.  Bldg.  "" "" "" ""	1 1 14 2 1 2 2 1 1 1	2,676500	8 8 8	5 5 5	1				
Implement	Results	Soignebougou  Total  2002 /Katiena	Sakoibougou Siradoba Dougoutiguibougou  Bougan Kokoun Dlaba N'Dinzanawere Sinebougou Zambougou Zangourabougou2 Sakoibougou	Bldg. Bldg. Bldg. " Bldg. " Bldg. " Bldg.	1 1 14 2 1 2 2 2 1 1 1	2,676500	8 8 8	5 5 5	1				
Implementation Content	Results	Soignebougou Total 2002 /Katiena 2002/Cinzana	Sakoibougou Siradoba Dougoutiguibougou  Bougan Kokoun Dlaba N'Dinzanawere Sinebougou Zambougou Zangourabougou2 Sakoibougou Siradoba	Bldg. Bldg. Bldg. " Bldg. " Bldg. " " Bldg. "	1 1 14 2 1 2 2 2 1 1 1 1	2,676500	8 8 8	5 5 5	1				
Implement	Results	Soignebougou Total 2002 /Katiena 2002/Cinzana	Sakoibougou Siradoba Dougoutiguibougou  Bougan Kokoun Dlaba N'Dinzanawere Sinebougou Zambougou Zangourabougou2 Sakoibougou	Bldg. Bldg. Bldg. " Bldg. " Bldg. " Bldg.	1 1 14 2 1 2 2 2 1 1 1	2,676500	8 8 8	5 5 5	1.				

1	Item					Conte	nt						
$\vdash$		Content  • Implementation of PRA survey and baseline study (June-December 2000)											
Ì	Implementa- tion Process	1 -		-		study (Ju	ine-Dece	ilioei 20	00)				
	Implementa- tion Process	• Establishment of CGTV (December 2000)											
	ple n P	• Establishment of breeding management rules (January 2001) • Construction of poultry house and introduction of breeding stock: 2001 (June 2001-February 2002), 2002											
	TE SE	_	-	sc and n	mouucn	OR OI OI	ccuing si	OCK: 20	ու (որոշ	2001-	rebluary	/ 2002,	), 2002
	(June 2002-January 2003)									sing ka	nt in 1 .	a a valter r	house
}		• Last year over half the breeding stock introduced died due to ① 9 fowl being kept in 1 poultry house											
ŀ		because construction was delayed, 2 lack of health management, 3 inferior feed, etc.									c Were		
		• For this reason, in 2002 field training was held again, including participants from 2001, and efforts were made to improve poultry raising.											
		made to improve poultry raising.  • Use of the facilities built in 2001 is shown in the table below.											
		000 01 1110 120111110					ary 2002	)	Pro	esent ti	me (Aug	ust 200	)2)
			No. of poultry houses built			III (June)	<u> </u>		_		110 (1 142		
		N	vo. of poultr houses built	Breeding stock ්	Traditional breed ♀	-p 0+	Fowl reared	8	Breeding stock	Traditional breed \$	ᇴᄽ	Fowl reared	S.
]		Name of village	of	Breedi stock	e jii	Mixed reed ♀	F	Chicks	reedin stock	ed III	Mixed breed ♀	l re	Chicks
			Š. Š	St Br	Fraditi breed	Mixe breed	ا رق ا	ບ	Bra	Traditional breed 9	bre	, o	$\Box$
					,			<del></del>					
		Bougan	3	9	8	0	0	0	3	23	0	1	3
		Kokoun	1	3	9	0	0	0	0_	6	6	14	11
		Dlaba	2	6	14	1	5	29	3	27	0	54	81
.uo		N'Dinzanawere	2	6	0	0	0	0	3	21	0	28	73
dit		Sinebougou	1	3	11	0	14	16	0	6	0	5	8
S		Zambougou	1	3	0	2	0	0	2	13	0	13	16
Activities Condition	Use	Zangourabougou2	1	3	8	0	0	0	0_	11	0	2	6
ivit	nt/	Sakoibougou	1	3	12	0	26	3	0	0	0	0	0
Act	eme	Siradoba	1 1	3 3	13 9	0	0	0	1 3	11	0	7 7	14 30
`	Management/Use	Dougoutiguibougou					L	·		11	U		30
	Maı	• The high death rate among the breeding cocks seriously affected production.											
			ypes of facilities, open type and closed type. With the closed type, good results were										
İ		achieved by UPAs that fed the poultry termites, shells, millet powder, fish powder, etc.  • Since January 2002 Dlaba in Cinzana district has had a turnover of over 30,000 Fcfa. Some poultry											
		1											
		farmers pay their contributions in one installment. The results are good in villages where people have vaccinating skills. In Dougoutiguibougou the person with vaccinating skills is a poultry farmer and none of											
ĺ		his breeding cocks has died.											
		• The farmers themselves install egg laying boxes, feeders, waterers, tick removers, etc. and show											
	,	enthusiasm for improving the breeding environment.											
		• There has been no	conspicu	ious dro	p in the	death ra	ate, but o	overall t	he numi	ber of	poultry l	has inc	reased
		almost 2.5 times cor	npared v	vith at th	e start o	f the pro	ject and	progress	s is good	l. Grov	vth in Ci	nzana (	district
		is notably good.											
		• Major losses were incurred as a result of inadequate breeding skills using improved breeding cocks.											
		was because breeding		-	-	-		_					
		Learning from their	-				-		•			_	
		poultry, measures to	deal wi	th interi	ial and e	external	parasites	, and im	proved	nutritio	on practi	ces inc	luding
		for cocks.	منع اسمد.	.1.4		44	· · · · · · · · · · · · · · · · · · ·		A4** . C-	-44.			
		· As a result of repe					nas imp	roved.	Antiinte	ctants	and para	asiticid	es are
		administered and va						- عام المرسية			ion of 1.	hor.	
		<ul> <li>Building skills in the</li> <li>Enthusiasm for imp</li> </ul>					-			-			Dlaba
Ren	eficial	Dougoutiguibougou			_	ь рапіс	птатту П	ouccapic	amont	5 Poult	iy talific	19 III	Diaua,
Imp		· Some poultry farme				ı. Saioni	ebougon	district	have e	xtended	their o	oultry '	houses
See		and are trying to inc				-	-Jougou	anoninet,	Have o		p		
		· The effects of the re					e steady	growth	in the m	umber	of fowl r	aised a	nd the
		number produced.		_	_		,	~ ·					

Item	Content
Evaluation	<ul> <li>The number of participants in the field training is small, about 5, but participation of villagers is obtained outside the verification studies and expansion is anticipated.</li> <li>If breeding skills are improved, the project can be expected to be highly effective and be highly evaluated by residents.</li> <li>From the results of the questionnaire conducted on residents, 90% of respondents are satisfied with the poultry houses that have been built. The reasons are: ① a drop in the death rate: 55%, ② increased egg production: 18%, ③ reasonably priced facilities: 18%.</li> <li>77% replied that they are satisfied with the introduction of breeding stock and the choice of species is judged to be appropriate.</li> <li>The project is an effective means of securing a source of cash income and should be incorporated in the M/P.</li> </ul>
Feedback to M/P	<ul> <li>With regard to the introduction of improved breeding stock and the use of poultry houses, relatively high level technology is required for nutritional improvement, health management, breeding management, etc. If such technology is not adequately transferred to residents, failure results. Implementation of the project must be based on adequate training.</li> <li>The project was intended to be implemented by women in order to secure a source of cash income, but construction is difficult without the cooperation of men. Therefore it should not necessarily be a fixed project for women.</li> </ul>

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Table 2.2.3.7 Monitoring Summary [Introduction of Improved Pasture Grass]

		Z.Z.J./ WIUMIUI	ing Summary [ri	•		<b>-</b> -				
	Item	. 77- :1			ntent			- 6- 44		
Purpose		To increase grassland production and improve livestock nutrition by constructing a fodder production infrastructure								
Bac	ekground	<ul> <li>Natural grasslands consist of one year grasses, particularly herbaceous grasses, and are of low nutritional value in terms of protein, etc. For this reason, improved perennial leguminous grasses such as high protein stylosanthes are introduced.</li> <li>There are no improved leguminous grasses in the survey area. Soil nutrients are improved by</li> </ul>								
Ver Iten	ification	<ul><li>Training of resider</li><li>Sowing of pasture</li></ul>	<ul> <li>introducing leguminous grasses.</li> <li>Training of residents in fodder production improvement</li> <li>Sowing of pasture grass by residents</li> <li>Management of grasslands through establishment of grazing rules by Stock-raising Specialized Group</li> </ul>							
Planning	Selection Require- ments	<ul> <li>Seeding through p</li> <li>Seeding of 2% of r</li> </ul>	razing rules by reside rovision of labor and non-planted land and % of the cost of purcl	grasslan 1% of fa	llow land	i	sidents			
Pla	Request Status	•	g of 52ha from 11 out							
Selection Seeding of 26ha was planned in 2001 and the remainder in 2002 Standards Removal of the outer coat of the seeds before planting and field training in seeding Ploughing, planting of seeds (5kg/ha) and covering with soil						g methods				
	Method	<u> </u>	om Australia by the St ibuting seeds to reside	•		d managem				
			¥ 7*44	T7 %		Costs	No, of part	ticipants in t		
		District	Village	Unit	Area	(yen)	Inspection	Indoors	In the field	
ıtent	<u>\$1</u>	Katiena	Kokoun Bougan	ha "	4.8 2.2		10 11	5	3 6	
Implementation Content	2001 Results	Cinzana	Dlaba N'Dinzanawere Sinebougou Zambougou	ha "" ""	0.5 2.0 6.0 3.5	,	8 8 8	3 3 4	5 5 4 6	
Imple		Soignebougou	Zangourabougou2 Dafimbougou Sakoibougou	ha "	1.5 1.5 1.0	015.750	8 8	5	5 3 20	
	2002 Results	Total ha 26.0 815,750 81 36 60  The remaining 26ha were due to be seeded in 2002, but because of a steep rise in the price of imported seeds and the difficulty of procuring seeds in Mali, creation of new land other than that mentioned below was cancelled.  No seeding took place in Siradoba village in 2001. Enough seeds for 3ha were distributed to Cinzana district in 2002 and planted. The seeded area for each village was as follows.  Dlaba 0.5ha, N'Dinzanawere 1ha, Sinebougou 0.25ha, Zambougou 0.75ha, Zangourabougou 2 0.5ha								
Ant Effe	icipated ects	<ul> <li>Establishment of a Grassland Management Association in villages participating in the project and appropriate maintenance and management of the grasslands</li> <li>Increased grassland production</li> </ul>								
Activities Condition	Implementation Process	<ul> <li>Implementation of PRA survey and baseline study (June-December 2000)</li> <li>Establishment of CGTV (December 2000)</li> <li>Establishment of stock-raising management rules (January 2001)</li> <li>Creation of grasslands in 2001 (July-August 2001) and 2002 (July 2002)</li> <li>Establishment of interterroir land use rules in 2002 (already established in Cinzana and Katiena districts)</li> </ul>								
Activitie	Management /Use	<ul> <li>Some seeding tool germinated proper again this season,</li> <li>Residents have litt</li> </ul>	c place from mid-Aug ly so they did not take out it was confirmed t le desire to manage th root well, and residen	e root ve hat they e grassla	ry well. did. ands. Thi	There was o	concern wheth they are seed	ner they wording shared	uld grow	

• Growth in the enclosure for estimating the crop by unit acreage sampling as of August of below.    Village										
Village     Height     Planting density (p       Excellent     Good     Poor     High     Medium	Low									
Excellent Good Poor High Medium	Low									
Excellent Good Poor High Medium										
Paugan	0									
Kokoun O	1									
N'Dinzanawere	1									
Sinebougou	0									
Zambougou  Dafimbougou  O	<del>                                     </del>									
Sakoibougou	1									
Sinebougou Zambougou Dafimbougou Sakoibougou Note 1 Height: Excellent: over 50cm, Good: 30-50cm, Poor: less than 30cm Note 2 Planting density: High: over 15 per m², Medium: 5-14, Low: less than 5	<u> </u>									
Note 2 Planting density: High: over 15 per m <sup>2</sup> , Medium: 5-14, Low: less than 5										
• As a result of measuring the volume of dry grass by crop estimation, a yield of over 3t/ha	is expected in									
the verification district. As the planting season for stylosanthes was missed, the data vari	•									
of about 5t/ha is expected. The fodder yield is expected to be about 1.5t/ha-2t/ha.										
Rhizobiums were not used when planting stylosanthes. It was found that the seeds to										
without them, but growth differs greatly depending on soil conditions. Growth is poor in	highly acidic									
	soil.									
	• Management of grazing land including improved and natural grasslands in Cinzana and Katiena districts									
	was incorporated in the land use agreement.									
	• A sense of cooperation began to grow among residents through the establishment of grazing rules, and organization was promoted in each district.									
• Interterroir land use and management rules were established by villagers in Cinzana	organization was promoted in each district.  Interterroir land use and management rules were established by villagers in Cinzana and Katiena									
districts and the importance of managing natural resources was recognized by residents	districts and the importance of managing natural resources was recognized by residents.									
I Impact Seen	• Late planting resulted in the grass not taking root, leading to reduced yields far below target. Looking at									
	growth this year, it was confirmed that, provided livestock grazing is properly managed in the early									
stages of pasture creation, leguminous grasses take root well.	,									
	· Textbooks for education activities in Bambara with illustrations are an effective way of boosting									
1	understanding among farmers.									
<del>_</del> _	The fact that only half of the planned area was seeded was the cause of the low target achievement rate.									
	• Systematization for establishing grazing rules in each district was successfully promoted.									
	• The project was poorly appraised by residents due to the seeds not taking root in the first year. The main reasons were late seeding and poor grazing management (sheep and goats were put out to graze in the									
	early stages of growth).									
According to the results of the questionnaire conducted on residents 66% want to	· According to the results of the questionnaire conducted on residents, 66% want to expand fodder									
I EVALUATION I	production, but adopt a negative attitude to introducing it by their own efforts, and 53% replied that they									
would introduce it if aid was provided.										
<ul> <li>In Cinzana district an interterroir land use management agreement was signed by 17 villa</li> </ul>										
neighboring villages. An agreement was also established in Katiena district. This enabled										
shared grazing land. Establishment of the agreement is judged to play a dramatic	role in the									
development of improved grassland creation and management.										
• This will be an effective M/P project if implemented on the assumption that controlled	grazing and a									
seed production system will be established.  • Imported seeds are expensive and difficult to promote. Therefore creation of a system to	promote seed									
production in Mali should be incorporated in the M/P.	Promote seea									
Feedback to Controlled grazing for a fixed period during seeding should be included as a point to note	when creating									
M/P pasture and guidance should be provided by extension workers.										
Guidance should be provided by extension workers to ensure that feed measures in the	dry season by									
increasing production of fodder crops such as niébé and dolique are the first consideration										

Table 2.2.3.8 Monitoring Summary [Construction of Mini Nurseries]

	Item	Content					
		To facilitate procurement of seedlings by the construction of seedling production facilities on					
Purpose		a village-unit basis					
		· Almost none of the villages h	as its own seedling	production facilitie	s and it is not easy to		
		procure seedlings.			•		
Backg	round	Some villages have built facili	ties through aid in th	e past, but product	ion has stopped due to		
Dackg	lounu	damage, lack of engineers, etc.					
		Nevertheless, in general reside	-	-			
		Nurseries are established in the			dlings.		
		· Construction of facilities with t	he participation of res	sidents			
Verific	ation Items	Implementation of training	*1				
	1	• Operation of the nurseries by re					
		• There are no existing nursery f			loma.		
	Selection	<ul> <li>Establishment of management</li> <li>Provision of free labor and ag</li> </ul>	-				
ĕ	Requirements	equipment)	decirent to continuat	c to costs (20% of	cost of materials and		
i	Requirements	Provision of land					
Planning		Securing of water source or pro	ospect thereof				
	Request Status	Requests for construction were		villages			
	Selection	9 villages where there are no existing nursery facilities were selected.					
	Decision	B					
	Campatona	• Approx. 100m <sup>2</sup> was enclosed	by a wire netting fen	ce and a shaded so	ection was constructed		
ten	Structure	inside partly using local materials					
Ö	Method	• Seedlings are grown using vinyl pots and some direct seeding (Residents bear 20% of the					
uo	Michied	cost of the materials)					
Implementation Content	Results (Costs)	• Cost of construction and materials for nurseries in 9 places: $584,650 \times 9 = 5,26$					
mer		· 2 trainings (10 days each) com	***************************************	······································			
ıple		Study Team> Implementation of PRA, <mali> Follow-up technical guidance in</mali>					
Ħ	Human Input	organization support and training through operation and management by CP  NGOs, local coordinators, etc. < Residents> Provision of labor					
	L_	NGOs, local coordinators, etc.  Nursery management and see			• • • • •		
Anticir	pated Effects	efforts	dillig production can	n de benonmed n	nough restuents own		
, mirrorl	Jacob Elicots	• Tree planting is promoted by si	unniving seedlings fro	om the mini nurser	ies		
	Implementation	Seedling production	2001	2002	Purchased in 2002		
	Process	(Total no. of trees)	(12,658)	(3,445)	(1,221)		
		Bougan	418	0	408		
		Kokoun	1,481	139	345		
_		N'Dinzanawere	778	1,106	0		
itio		Dlaba	1,714	932	97		
puc		Sinebougou	1,547	580	0		
ũ		Zambougou	2,401	194	260		
itie	· ·	Zangourabougou2	740	232	111		
Activities Condition	ļ	Dafimbougou	996	0	0		
<b>∀</b>		Sakoibougou Total	2,613 12,658	262 3,445	0 1,221		
		Production figures for 2002 are	12,036	3, <del>44</del> 3	1,221		
		until December, and the number					
	1	purchased does not include					
		purchase by individuals.					

With aid from the Study Team, in 2001 a total of over 12,000 seedlings were produced in 7 In addition to the seeds distributed by JICA, some villages planted seeds they obtained themselves, including coconut palm and African mahogany, showing that residents were capable of acting independently. · On the other hand, this was not planned production and buyers were not found for all the seedlings that were produced. • The majority of the seedlings were planted in the villages. · From 2002 residents had to bear all costs of operating the nurseries and in general operation slumped. Only 2 villages, N'Dinzanawere and Sinebougou, met demand in the villages by village production alone. At the same time performance began to vary from village to village (positive villages and negative villages). There is the problem of what to do about paying the people in charge of managing the nurseries. Many villages still have no clear rules. Only 3 villages, Dlaba, Sinebougou and N'Dinzanawere have bought additional materials and equipment at their own expense. Management rules have more or less been established in all the villages, but with the exception of N'Dinzanawere, how much the people in charge will be paid and how they will be paid has not been settled. Management in Sinebougou and Dlaba is largely dependent on volunteers from among the villagers. However, some villages have bought fruit tree seedlings that are difficult to grow in village nurseries (quality is low due to lack of grafting skills in the villages) from outside and the decline in supply in 2002 cannot simply be blamed directly on lack of enthusiasm for producing seedlings. Production in Sakoibougou has to all intents and purposes stopped. This is due to the tree-planting leaders working away from the village in Bamako and a general decline in enthusiasm for tree planting, as well as the low salary paid to the people in charge of the nursery and pressure of work in the cereal fields. Production stopped with the seedlings left over from last year. In Cinzana district tree planting is changing from being a joint activity to being an individual activity, and the problem of a salary for the people in charge of the nursery remains unsettled. Most of the Dlaba seedlings were used to supply Cinzana Commune. Management of the seedling production process and time management are poor (not enough seedlings are supplied in time for the planting season). Outstanding · The reason why it is difficult to establish rules for paying those engaged in seedling Issues production is the low level of skills and lack of any prospect of adequate profit. To solve the above, the tree-growing skills of the people in charge must be improved. The stage was reached where seedling production activities could be undertaken by residents (those engaged in seedling production) on their own, except for grafting technology. · There was enthusiasm to acquire new skills, especially regarding fruit trees, such as wanting Beneficial Impact Seen to acquire grafting technology. There was a growing desire among residents for a diversity of seeds. In Cinzana district the trend arose for selling the seedlings they produced to the commune through a commission contract (see the example of Dlaba). Labor was provided and contributions paid more or less as planned. The facilities were well managed on the whole, but there is concern about sustainability in some villages. The nurseries are ingeniously used in some villages, such as Dlaba where the nursery is used Evaluation as a vegetable field in the dry season. • The management system and management rules are still not totally satisfactory (particularly regarding clarification of the salary for the people in charge of management and how it is Overall this is a feasible project and is appropriate to be incorporated in the plan. Guidance should be provided by extension workers to ensure that a supply plan combining production in the village mini nurseries and purchase of seedlings from outside is laid down Feedback to MP Guidance should be provided by extension workers to define the duties and salaries of nursery managers.

Table 2.2.3.9 Monitoring Summary [Afforestation]

Item		Content					
Purpose		To create forests by planting trees that are communally and individually owned					
		Forests are natural resources where villagers are free to collect firewood.					
		Women in particular collect a year's supply of firewood in the dry season.					
		_		r in view of population growth and			
Backgro	ound	deterioration of natural reso	ources.				
		• On the other hand, most vil	lages have little or no experi	ence in tree planting.			
		<ul> <li>For this reason, there is gro</li> </ul>	wing competition for firewo	od, it has to be collected in			
			and forests are becoming de	pleted.			
Verifica	ition Items	<ul> <li>Implementation of training</li> </ul>					
10111100	Г	<ul> <li>Planting and management b</li> </ul>					
	Selection	<ul> <li>All the villages requesting a</li> </ul>	afforestation				
ing	Requirements	NEGOTI E E TERRETORIO ATERNA DA GRANDA E E E E E E E E E E E E E E E E E E E	MANALIS AND THE PERSON OF THE	панатнанатнана пака нака нака нака нака нака нака			
Planning	Request Status	All 12 villages		VAC-LUMBONA/A-A-LUMBO-LUMBONIMONALLUM IN INSTITUTATION ARTHUR ART			
畐	Selection	All 12 villages					
	Decision						
	Standards	Communally or individually	**************************************				
Ħ		Implementation of technica	<del>-</del>				
nte	Method	Selection of planting sites and type of seeds by villagers					
ರೆ		• Planting of trees and management afterwards (protection of individual trees and groups of					
tion		trees)					
ntai	Results/Costs	<ul> <li>Cost of technical training for 214 people from all 12 villages: 900,000 cfa</li> <li>Trees were only planted in 9 villages where mini nurseries were established. Costs were</li> </ul>					
ж		borne entirely by residents					
Implementation Content	WATER AND THE STREET, THE STRE	Study Team> Implementation of <mali> Follow-up technical guidance in operation and</mali>					
ī	Human Input	PRA, organization support and training management by CP					
	Truman mput	through NGOs, local coordinators, etc. <residents> Provision of labor</residents>					
		Trees are planted and cared for after planting by residents.					
Anticipa	ated Effects	Residents' awareness of forest conservation is heightened.					
		Afforested area	2001	2002			
		(Total area (ha))					
		Common forested land only	(5.56)	(1.85)			
		Bougan	1.51	0.5			
	i	Kokoun	1.00	0.38 [ 29]			
ų,		N'Dinzanawere	0.58	0.40 [ 72]			
dition		Dlaba	0.56	- [93]			
, io	Implementation	Sinebougou	0.24	0.18 [24]			
၂ အ	Process	Zambougou	0.61	0.14 [111]			
, ţţ	_ 10000	Zangourabougou2	0.73	0.14 [ 45]			
Activities Con		Dafimbougou	0.22	-			
~		Sakoibougou	0.11	0.11			
			T. 1''1 .3 CC . 1	Figure in brackets is approx. area			
			Individual afforested	by number of individually owned			
ĺ			area could not be	trees.			
			measured.	Rehabilitation of land planted in			
				2001 is not included.			

	_	
		• In 2001 the common forest area was large as a result of the mini nurseries and training support by the Study Team.
		• Considerable difference is seen in the growth of trees planted in 2001 depending on the type of protective fence. That is to say, the growth rate at the beginning of August when single trees were surrounded and protected by dead branches was less than 10%. (The root-taking
}		rate directly after planting was 85% on average.)
		• The reason for this is that young goats and sheep pushed their heads through gaps in the protective fence made by strong winds, such as harmattan, in the dry season and ate the seedlings.
		<ul> <li>However, if the number of branches is increased to strengthen the protective fence to prevent this happening, it shuts out the sunlight and hinders the growth of the seedlings.</li> </ul>
		On the other hand, if a large planted area is surrounded and the trees are protected in groups, the growth rate is visually estimated at around two-thirds for eucalyptus.
		• Considering that planting was late in 2001 and not enough rain fell afterwards, it is assumed that if the trees had been planted at the right time, the growth rate would have been better.
		As regards protection of both single trees and groups of trees, better results are seen on individual forest land than on common forest land.
Ma	nagement	• The accountability of afforestation management in the dry season on common forest land is
		hard to define, and in fact management is poor and so is the level of growth. The growth of trees on forest land far from a village is particularly poor. (The trees are short and thin.)
		<ul> <li>Trees were actively planted around meeting halls (mainly in Cinzana district) and along the main roads (mainly in Katiena district).</li> </ul>
		• The area of communally owned forests in 2002 decreased, but individually owned forests are expanding.
		• Several villages such as Dlaba are planning joint tree planting once every 2 years and a
		decline in afforested area does not necessarily mean a decline in the desire to plant trees.
		<ul> <li>The main cause is poor time management in the production of seedlings.</li> <li>Disparity in performance has started to appear from village to village. This virtually parallels</li> </ul>
		the degree of awareness of the importance of tree planting in the villages. In Cinzana district
		performance is relatively good.
		<ul> <li>After systematic planting of both individually and commonly owned trees in Dlaba village in 2001, they were well managed.</li> </ul>
		Rehabilitation planting of roadside trees was undertaken in Katiena district.
		• In Sakoibougou village tree planting activities declined in general due to the absence of the
	tahungan ang ang ang ang ang ang ang ang ang	leaders who were working away from home.
		• There is no chance of protecting single trees unless flat iron bars are used, though this is more expensive than using dead branches.
		• The management system and management rules are still not entirely satisfactory (particularly
Out	tstanding ues	regarding rules concerning responsibility for irrigation in the dry season). Many villages also lack adequate management of common forest land with regard to clearing the undergrowth, etc.
		<ul> <li>Accountability for forest management in the dry season must be clearly defined in the case of common forest land.</li> </ul>
<u> </u>		· Commonly and individually owned forests were created with the participation of many
		residents.  This led to efforts to establish interterroir land use rules, including forest protection, first in
Beneficial In	npact Seen	Cinzana district and then in Katiena district.
		Accompanying heightened awareness of forest conservation, villagers desired a greater
		variety of seeds.  Labor for planting trees was provided more or less as planned, but activities have declined in
		some villages.
Evaluation		· Acquisition of tree planting skills has reached a certain level, but management skills after
		planting are a problem.  Residents' awareness of forest conservation was heightened to a certain extent.
<u> </u>		Overall, the project is feasible and is appropriate to be incorporated in the MP.
Feedback to	MP	· Guidance should be provided by extension workers to promote protection of groups of trees
		rather than single trees

## 2.2.4 Protection and Management of Natural Resources

Table 2.2.4.1 Monitoring Summary [Establishment of Land Use Rules]

	Item			Con	itent			
Purpose		• To improve and establish residents' awareness of land use in order to conserve natural resources						
Bac	kground	<ul> <li>Unless the land in the survey area is properly managed, the situation will continue to deteriorate with less grassland, fewer trees, etc.</li> <li>Many residents are aware of the worsening situation, but they do not have a clear grasp of what they need to do or how.</li> <li>Residents must understand the necessity of systematic land use and be encouraged to implement land use management themselves</li> </ul>						
Ver	ification Items		entation of education for e for the establishment of (i					
Planning	Selection Requirements	None						
Pla	Residents' Intentions	districts				rules in nearly a	all the villages in all 3	
Standards  The land use rules cover penalties in the event of infringement.  Presentation of draft regulations to each village by the Study Team  Examination of the content of the draft regulations by each village  Meetings and discussions with technical agencies on the administration side and results as the commune  Completion of authorization formalities through the administrative agency  Publicization of the content of the agreement by radio and putting up of signs regarding of the rules						e and related bureaus		
- Interterroir operation and management of the rules						regarding observance		
An	ticipated Effects	<ul> <li>Increased awareness of land use management by residents</li> <li>Prevention of improper expropriation of resources and promotion of conservation of natural resources by the establishment of rules</li> </ul>						
		District	Village	Grazing Rules	Tree Planting Rules	Land Manageme nt Rules	Interterroir Agreement	
	Process	Katiena	2 villages (Interterroir agreement among 12 villages including 10 neighboring villages)	Established	Not established	Not established Included in interterroir agreement	Not established Formalities in process	
	Implementation Process	Cinzana	5 villages (Interterroir agreement among 17 villages including 12 neighboring villages)	Established	Not established	Included in interterroir agreement	Established and effective	
Activities		Soignebougou	5 villages (Interterroir agreement pending among 21 villages including 16 neighboring villages)	Established	Not established	Not established Included in interterroir agreement	Not established Under discussion	
<ul> <li>A workshop (W/S) was held in January 2002 to draft I persons from the administrative agency.</li> <li>However, some of the views expressed by the admin should be strictly observed right from the start', 'if y membership pastures or land to collect firewood, yo administration', etc.) dampened the enthusiasm of r temporarily stalled after the workshop.</li> <li>Later, following discussion among residents over about which had been categorized during the workshop into latere planting land, grassland, etc. was divided into faccording to how farmers would actually use the land collected, the amount proposed at the workshop was recaping agency was completed in September 2002 and the rules of agency was completed in September 2002 and the rules of the service of</li></ul>				e administration t', 'if you are pood, you shou m of resident er about 6 mo p into land for l into forest ( the land, and was reduced, a	n side (for exagoing to charged pay some of and discussion this, ① commodlecting firevalue collecting firevalue collection collectio	ample, 'grazing rules ge a fee for entering of the money to the ion among residents non land, the uses of wood, protected land, land and other land, ship fees were to be at the administrative		

i	[	• The key to the successful establishment of land use rules in Cinzana district was the discussions that
Activities Condition	Explanation of Process	were held while considering the introduction of improved grass on how to preserve existing commonly used grassland that existed as the membership land of several villages outside the verification area.  Residents in Cinzana district decided to set up signs specifying zones, such as felling zone etc., based on the land use rules.  In this district, a certain organization put out the opinion that the draft agreement on grassland touched on the Malian custom that 'any citizen may use the land'. However, it was explained that the agreement does not prohibit all use of the land; it simply suggests that those involved in using the land should work together and use it with a specific discipline, and that the approach taken in the agreement is that the resources of the area should be managed and preserved by the local people. After discussions, the consent of the organization was obtained. The agreement of the Ségou Governor's Office to the ideas of the Study Team (basically, the ideas of the local residents) was also obtained.  Katiena district has been moving towards establishing land use rules since September 2002, but land is more plentiful than in Cinzana district, the deterioration of resources is not as acute and rules have not yet been established. Discussions and formalities for bringing rules into effect are under way, including 10 neighboring villages outside the verification area.  In Soignebougou there was no consensus of opinion in the various areas and Dougoutigibougou village started to implement rules independently without obtaining the permission of the administration, causing trouble with neighboring villages. The administration intervened and Dougoutigibougou's rules were suspended, but at present discussions are under way with a view to bringing into effect rules for the whole district including 16 neighboring villages outside the
		verification district through official procedures.  The agreement in Cinzana district has just come into effect and there has been no conspicuous
Be: See	neficial Impact en	<ul> <li>physical effect. Community awareness is growing in the 17 villages through the discussion process, resulting in interterroir exchange of information and opportunities for cooperation in solving common problems.</li> <li>The growing awareness of the community resulted in a decision to manage and operate the various contributions to costs under the rules using specific village cashboxes.</li> <li>Rules will also be established to maintain and implement the agreement.</li> </ul>
		In Cinzana district the leaders of Sinebougou village played a key role in establishing an interterroir
Ev	aluation	agreement including 17 neighboring villages. The leadership of residents, the meeting halls in the verification project and the advice of the local coordinators supporting them functioned effectively in coordinating the talks among many villages.  • It was confirmed that promotion of the establishment of land use management rules, coupled with implementation of grassland management and management of trees, spread more quickly among residents than assumed at first by the Study Team according to the land use situation facing each village.
		<ul> <li>According to the results of the evaluation questionnaire conducted on residents, most residents know about the land use rules and feel that it is good to have rules for several villages, including the rules currently under examination. Most residents replied that their view of land use had changed, and thought that promotion of land use rules was effective in changing residents' views of land resources through implementation of various projects related to improvement of agriculture, stock raising, afforestation and living conditions. This project is appropriate to be incorporated in the M/P.</li> </ul>
Feedback to M/P		<ul> <li>As residents' enthusiasm for drawing up a land use agreement varies according to different environmental, social and economic conditions, guidance should be provided by extension workers to promote introduction starting from districts (villages) where enthusiasm is high.</li> <li>For the rules to work, the support of the administration is essential. It should be proposed to the administration that information on the progress of establishing rules be made available at an early stage when the moment is opportune for establishing rules in a district.</li> </ul>

**Table 2.2.4.2 Monitoring Summary [Soil Conservation]** 

	Item		Co Co	ontent	<u> </u>					
Purpose		To prevent soil erosion inside and outside the village and renew and improve the plant life on land where it has deteriorated								
Backgr	ound	<ul> <li>Soil degradation (desertification) caused by excessive cultivation, overgrazing and depletion of forests is advancing against a background of population growth.</li> <li>Damage caused by soil erosion includes water erosion of fields and fallow land, wind erosion, reduced grassland vegetation and the collapse of slopes, as well as corrosion around some wadis.</li> </ul>								
Verifica	ation Items	Implementation of technic     Implementation of individual	_		_	of residents				
Planning	Selection Requirements Request Status	Contribution of labor for c     Self-procurement of local     Contribution to costs by re     Requests for some form of	materials such as sidents if equipm	ent is purchased		the villages				
<u>E</u>	Selection Decision	<ul> <li>Requests for some form of soil conservation activities were received from all the villages</li> <li>Implemented as requested</li> </ul>								
	Type/ Structure	<ul> <li>Renewal and improvement of plant life: Contoured stone ridges, masonry for repairing rills and gullies, wadi flood bank protection</li> <li>In the fields: Brushwood fences, hedges (euphorbia, pourghere), andropogon vegetation belts</li> </ul>								
on Content	Method	<ul> <li>Cooperative work in the village includes wadi bank protection in Kokoun, marsh bank protection and restoration of bare land in Cinzana district, and 1300m of contoured stone ridges in Soignebougou district</li> <li>Training was commissioned to DRCN</li> </ul>								
Implementation Content	Results (Costs)	<ul> <li>Cost of seedlings to establish vegetation belt 100,000 Fcfa (partly provided free administrative agency)</li> <li>Cost of sandbags 750,000 Fcfa (250 per bag)</li> <li>Other local materials were free.</li> </ul>								
	Human Input	Study Team> Implementation of education of support and DRCN training coordinators, etc.	1	of some	materials and					
Anticip	ated Effects	<ul> <li>Improved productivity of the soil in the fields through independent expansion of soil conservation activities</li> <li>Soil recovery around the villages</li> </ul>								
		Cumulative Project Scale	Masonry/ Sandbags m	Brushwood Fence m	Hedge m	Vegetation Belt m				
Activities Condition	Results	Bougan Kokoun N'Dinzanawere Dlaba Sinebougou Zambougou Zangourabougou2 Dafimbougou Sakoibougou Siradoba Dougoutiguibougou Fabougou	- 220 - 160 - 120 - 270 580 300 370 220	10 - - - 15 30 105 - 65 40 40	20 - 190 - - 5 55 80 40 20 5	10 15 10 5 60 25 75 80 60 60 205				

Process	<ul> <li>Joint trainings in soil conservation were held in each district in January 2002 with a total of 44 participants.</li> <li>Materials and seeds were procured independently in the villages, with the exception of those that were difficult for villagers to obtain, and labor for cooperative work was provided entirely by villagers.</li> <li>However, there were many UPAs that did not participate in the activities due to pressure of work.</li> <li>Kokoun wadi bank protection was carried out by a combination of soil ridges and vegetation belt formation.</li> <li>Whereas the effects of stone and soil ridges were soon apparent, hedges and vegetation belts were not well established. The reason for this was the lack of care given to parts damaged by wind and water. Short-term effectiveness was conspicuously lacking.</li> <li>Between 60 and 70% of euphorbe and pourghere hedges took root (2001). Less than 10% of andropogon took root in 2001 as the planting season was missed, but in 2002 it was planted in the middle of the rainy season and root-taking improved up to 80%.</li> <li>As soil conservation is an important project with a direct effect on prevention of desertification, monitoring and guidance were provided by DRCN CPs at the rate of once a month, but there were few cases of cooperative work being managed by residents.</li> </ul>
Outstanding Issues	<ul> <li>Soil conservation in individual fields tends to be continued, but as for soil conservation by cooperative work, some UPAs did not provide labor and sustainable maintenance and management was not always adequate.</li> <li>Soil conservation must be undertaken in the entire river basin and ways of rousing enthusiasm to implement measures through cooperation must be considered.</li> </ul>
Beneficial Impact Seen	<ul> <li>Soil conservation measures planned by residents were more or less all implemented.</li> <li>The part of the project involving stone ridges was notably successful in that vegetation downstream was restored in 2 or 3 months, but there was a conspicuous lack of other effects in the short term. However, prevention of surface runoff was successful to a certain extent.</li> <li>Awareness of the importance of soil conservation spread among residents to a certain extent and led to moves to establish interterroir land use rules in some districts.</li> </ul>
Evaluation	<ul> <li>Soil conservation activities in individual fields are relatively easy to establish, but soil conservation by cooperative work is more difficult.</li> <li>It will take time and continued management until results are seen, but awareness of the importance of implementing projects is increasing among residents, albeit slowly.</li> <li>Overall, judging from the fact that this is an important project and its feasibility could be proved to a certain extent, it should be incorporated in the M/P.</li> </ul>
Feedback to MP	<ul> <li>A grant of 70% of the cost of carts for transporting materials and equipment should be added to enhance residents' motivation to implement cooperative soil conservation work.</li> </ul>

### 2.2.5 Reduction of Women's Burden

Table 2.2.5.1 Monitoring Summary [Construction of Mills and Training to Improve Living Conditions]

	Item		<u> </u>		Content			
Purpose		· To re	To reduce the time women spend on milling and increase their income					
		l	• To improve the quality of life, especially for women					
					o spend about 4 hours every day making flour.			
Bac	kground	II			enable them to participate in development, instruction must			
	_	be pi	ovided in ways o	f reducing hous	ework and improving their living conditions.			
	•	· Cons	truction of mills	and establishme	nt of management by residents			
Ver	ification Items	Effec	tive use by wo	men of the tim	ne created by construction and operation of the mill and			
		impl	ementation of tra	ining to improve	e living conditions			
		· No e	ffective mill facil	ities exist				
	Selection	• Estal	lishment of man	agement regulat	ions and a management system by residents			
	Requirements				d provision of land			
	Requirements	• Agre	ement to contrib	oution of 240,00	00 Fcfa (equivalent to 20% of the cost of purchasing the			
ing	Martin Inc.		ng machine)					
Planning	Request Status				ed from 9 out of 12 villages (In the PRA survey, it occupied			
Z	Troquest Diales		h position among	······································				
				construction ar	nd the size of the village population, mills were constructed			
	Selection		villages.					
	Decision		* Katiena district: Bougan, Kokoun; Cinzana district: N'Dinzanawere, Zambougou, Sinebougou;					
			Soignebougou district: Dafimbougou, Dougoutiguibougou					
	Standards/		• Building: One-story building made of banco bricks and measuring 5×3m					
	Structure		• 8hp or 10hp milling machine					
Ħ		I	• Re-contracted to local consultant (procurement of materials, construction guidance, execution of					
Implementation Content	Method/System		work that is too difficult for residents, training and guidance in milling operations)  Construction of building by residents (10 persons/day)					
ပိ	and the same of the same of the control of the same of	······································		······································				
ion	1	Year	Village	Cost (Fcfa)	Remarks			
ntat		2001	Mill (7)	25,077,000	Construction of building, installation of milling equipment,			
ПE	Results (Costs)	2002	N (:11 (7)	12 020 000	training and guidance			
ple		2002	Mill (7)		Training, follow-up, monitoring			
크			Training (7)		Training in improving living conditions for women			
	MANAGAMAN AND AND AND AND AND AND AND AND AND A	T		43,706,000				
	Human Input	1 -	Japanese specialists in living environment improvement 3 M/M					
	i	Mali C/I		a waman theau	ch release from milling much			
Δnt	icipated Effects	• Reduction of burden on women through release from milling work			-			
All	icipated Effects	I	<ul> <li>Active participation in work that will improve their income such as vegetable growing</li> <li>Acquisition of knowledge relating to keeping fit, health and nutrition</li> </ul>					
			of UPAs use the		reconing in, ileann and iluminon			
				mill				
ies Ies	uo	. The			y average milling of 60kg/day per village (the original plan			
ivities	Implementati	n The	esults for Noven		v average milling of 60kg/day per village (the original plan			
Activities	Implementati	n The			v average milling of 60kg/day per village (the original plan			
Activities	Implementation Process	n The	esults for Noven		average milling of 60kg/day per village (the original plan			
		• The was i	esults for Noven for 200-400kg) ge for use: 15 Fcf	nber 2002 show				
	Income	• The rwas f	esults for Noven or 200-400kg) ge for use: 15 Fct pective volume: 2	nber 2002 show fa/kg .00-400kg/day (.	approx. 70% use)			
Operation Activities		• The rwas i	esults for Noven or 200-400kg) ge for use: 15 Fct pective volume: 2	nber 2002 show fa/kg :00-400kg/day (. repairs, labor co	approx. 70% use) osts (operation, management)			

Item	Content
	• Judging from the fact that 95% of UPAs use the mill, 64% of UPAs grind almost all their cereals for consumption at the mill and 29% of UPAs grind half at the mill, the time women spend in
	grinding at home was greatly reduced.
	· According to the questionnaire conducted on residents, 48% of UPAs spend the time gained in
Beneficial Impact	housework and 27% in growing vegetables, thereby contributing to reducing excess labor and
Seen	increasing income for women.
	• In some villages, over 100 people participated in the training to improve the living conditions of
	farming households, demonstrating the major importance of training related to nutrition, keeping
	fit and health for residents,
	· Some people expressed the view that they wanted to use the mill but did not have enough money
Problems	so did not. Unless implemented in conjunction with measures to improve the income of women,
	use of the mill will not grow for economic reasons.
	① Evaluation by residents
	· As this project has the effect of directly and immediately reducing excess labor for women, it
	occupies a high position in the participatory evaluation by residents.
	In the PRA survey, it is judged to be a high priority project requiring urgent implementation.
	② Evaluation by the Study Team
	1. Effectiveness of the project
	• The project was highly desired by residents and was effective in reducing labor for women.
	2. Concerning the selection standards
	Labor and land were provided without problem (no charge was made).
	A management system and management regulations were established and management is
	performed by residents.
Evaluation	• Contributions are paid as planned.
	Judging from the above, the selection standards are all met at present.
	3. Training and operation guidance Immediately after starting operation there were problems such as the motor breaking down and
	the cereal feeder not working, but they were solved by dispatching an engineer, changing the
	parts, etc. Follow-up is therefore judged to be necessary for about 2 years until the operator
	learns how to perform repairs.
	· Immediately after starting operation the books were not kept due to the low level of literacy of
	the people in charge of accounting, but with additional guidance bookkeeping skills were
	acquired.
	4. Training to improve the living conditions of farming households
	· Although newly implemented starting from the verification project in 2002, the interest of
	participants is extremely high and the training is judged to be very effective.
	· As the machine will sometimes break down and other problems occur, follow-up should be
	provided by extension workers for about 2 years after construction.
	• In the verification project residents contributed an amount equivalent to 20% of the cost of the
	milling equipment. As considerable income is generated if operation proceeds as planned, a
	contribution of 200,000 Fcfa should be made for the building and 30% of the cost of the milling
	equipment.
Feedback to MP	• It is very difficult for the mills to operate economically in villages with small populations. The
	standards in the M/P should be one mill for a minimum of 500 people and one for a number of
[	villages when the populations are small. (If using the mill in another village, the maximum
	distance should be about 3km.)
	• Follow-up guidance for people in charge of accounting should be provided by extension workers.
	· In small villages use of the facilities by neighboring villagers should be promoted by the
	commune.

Table 2.2.5.2 Monitoring Summary [Promotion of Improved Ovens (Earth-made and iron-made)]

	7.	non-made)j				
	Item	Content				
Purpose	<b>e</b>	• To promote improved ovens to ensure ef				
		• Simple traditional 3-stone ovens are con				
		l .	t and consume a lot of firewood. Heat-efficiency of			
		-	ectively 50% and 100% higher than traditional ovens.			
		•	ntroduced in some villages, but have not spread to all			
Backgre	ound	villages due to lack of guidance.				
		_	cation area that produce and sell iron ovens and very			
		few in the survey area.				
			in the village, many women want to use them.			
		1	repair farm machines) are found here and there in the			
		villages and the latent ability to make ov  * <earth-made ovens=""> Training in manufa</earth-made>				
Varifica	tion Items					
Verrica	ition rems	_				
		<ul> <li>Increased manufacture and use of improved ovens in the villages</li> <li>For earth-made ovens, request from the village.</li> </ul>				
	Selection	· For iron ovens, the presence of an existing blacksmith in the village and agreement to				
	Requirements	contribute to costs (20% of the cost of materials and equipment)				
ing	Manager Control of the Control of th	Requests were received from all 12 villa	TO THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OW			
Planning	Request Status	Requests were received from 9 out of 12				
굺		All 12 villages were selected for earth-m				
	Selection	<u> </u>	not be obtained in 2 of the 9 villages, 7 villages were			
	Decision	selected for iron ovens				
		<earth-made ovens=""></earth-made>				
		Provision of manufacturing labor by resi	idents			
Implementation Content	Standards	• Preparation of materials, banco (sun-drie				
		<iron ovens=""></iron>	, , , , , , , , , , , , , , , , , , ,			
		Manufacture and sale by blacksmiths is supervised by the CGTV				
	Method	Training and introduction of equipment	for making iron ovens are commissioned to NGOs			
		∠Earth-made ovens>				
	Results	· 234 people (61 men, 173 women) partic	ipated in training. Cost: 4,078,000 Fcfa			
	(Costs)	<pre><iron ovens=""></iron></pre>				
ldu	·/	8 blacksmiths participated in training. Cost: 3,108,000 Fcfa				
П	THE THE REST OF THE PERSON OF	Cost of manufacturing equipment (8 sets)				
		<study team=""> Education, organization suggested.</study>	= -			
	Human Input	and training commissioned to NGOs thr	rough			
		local coordinators				
Anticipa	ated Effects	• Manufacture of improved ovens by resid	<u> </u>			
		• Forest conservation and reduced wood-c	<del>  ''                                  </del>			
		<earth-made ovens=""></earth-made>	<pre></pre>			
	Manufacturing	• 2001: 210	2001: 137			
,	Results	• 2002: 392	• 2002: 230			
_		(Figures for 2002 are until December)				
itior			facture is simple and materials are easily obtained so			
ipu		• In the case of earth-made ovens, manufacture is simple and materials are easily obtained, so they soon spread and became widely used among UPAs who had received training.				
Activities Condition			not often pass their knowledge on to other villagers.			
		I = =				
ctiv	'	• Women need men's understanding and cooperation to participate in training. The degree of cooperation among men varies, resulting in large differences in the number of women				
¥	Process	participating in training in each village.				
			techniques are mastered entirely by blacksmiths.			
			the villages and supply does not meet demand.			
		· Cinzana district achieved the best results for manufacture of both earth and iron ovens (65%				
		of total).				

State of Use	· As iron ovens are portable, they are used in combination with earth-made ovens by most UPAs			
Beneficial Impact Seen	<ul> <li>Residents have virtually mastered how to manufacture and use the ovens.</li> <li>From the viewpoint of contributing to management of resources, the ovens are highly appraised by administrative agencies (the mayor of Cinzana attended the ceremony at the end of the training) and have further encouraged management of resources by both officials and people in the district.</li> <li>In the case of iron ovens, some blacksmiths incorporated their own ideas, such as making ovens with an automatic fan function using a motor.</li> </ul>			
Evaluation	<ul> <li>Residents' awareness of forest conservation was heightened to a certain extent.</li> <li>Overall, the project is highly feasible and is appropriate to be incorporated in the M/P.</li> </ul>			
Feedback to M/P	In the case of earth-made ovens, guidance should be provided by extension workers to ensure that there are opportunities for people who have received training to pass on their skills to other people in the village.			

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Table 2.2.5.3 Monitoring Summary [Promotion of Manufacture of Handicrafts]

	Table 2.2.5.	Mionitoring Summa	ry [Pron									
	Item	Content										
Purpos	ie .	• To manufacture handicra			ifying income in	order to comba	at poverty and					
		reduce the burden on for	-				·					
		<ul> <li>Villagers have few opportunities to obtain cash income.</li> <li>Opportunities to obtain cash income are mainly limited to agricultural produce, and virtually</li> </ul>										
		1		•	_	_	-					
		the only means to obtain cash in the vicinity of the village is to sell firewood or charcoal.										
Backgr	round	· Women in particular are	-	mely busy gr	owing food, doi	ng housework a	and collecting					
		firewood and have little										
		• With virtually no opport	unities to o	obtain cash, it	t is important to	diversify wome	en's source of					
		income.	•									
Verifica	ation Items	• Implementation of traini	-	nacturing tech	iniques and sale	s management						
		Manufacture and sale by     Choice of manufacturing										
	Selection	Establishment of manage			managament ava	tem						
	Requirements											
ing	Requirements	be procured by residents	Most of the materials needed for manufacture come from existing natural resources and can									
Planning	Request	Requests were received from all 12 villages										
Ä	Status	- Requesis were received from all 12 villages										
	Selection	· Implemented in 12 villages										
	Decision											
	Types of	· The most popular handicrafts chosen by the villagers were, in order: ① soap and dyed										
Ħ	Handicrafts	goods: 12, ② cosmetic cream: 11, ③ macaroni: 7, ④ Bisap (juice): 4										
ije.		Commissioned to local N										
රි	System	· Activities implemented a		ach group								
tion	Results	Commission costs, inclu-			0 Fcfa							
ntat	(Costs)		J									
Implementation Content		Study Team>		<res< td=""><td>idents&gt;</td><td></td><td></td></res<>	idents>							
aple	Hannan Tanas	Education, systematization	support	and Partial	procurement o	f materials and	all labor for					
H	Human Input	implementation of training	commissio	oned manuf	acture							
		to NGO through local coord										
Anticin	ated Effect	· Establishment of handic	raft manuf	acturing skill	s and sales man	agement among	g women and					
<u>-</u>		increased income	1 ~									
	ø	Sustained activity	Soap	Cosmetic	Dyed cloth	Macaroni	Bisap					
		D		cream	<del>                                     </del>	×						
		Bougan	О Д	Δ	$\triangle$	^	· Δ ×					
		Kokoun N'Dinzanawere	0	Δ	Δ	-						
	SS	Dlaba	0	Δ	4	Ō	△ ○					
	Pro	Sinebougou	0	Δ	00	Δ	Ö					
	Implementation Process	Zambougou	0	Δ	0	Δ	0					
c		Zangourabougou2	0	Δ	0	Δ	Δ					
itio	mer	Dafimbougou	Ö	<u>-</u>	)		_					
Sind	ple	Sakoibougou	0	•	Δ	Δ	_					
ŭ	ā	Siradoba	0	_	-	_	-					
iti E		Dougoutiguibougou	Ö	-	_	-	0					
Activities Condition		Fabougou	Ö	-	-	-	Δ					
		Total manufactured	7620	104kg	166 sheets	1.4t	1200L					
		quantity until Dec. 2002										
		· Preparation and distribu	tion of ma	anuals (in Ba	ımbara with illu	strations) at th	e end of the					
	•	training was effective in		•								
		· With a few exceptions, h										
	Operation	most popular item, had	to be temp	orarily suspe	nded due to a l	ack of karite bu	itter, the raw					
		material.										
	1	<ul> <li>Certain difficulties arose</li> </ul>	in the sale	e of dyed god	ods. The selling	price is high at	nd unless the					
		villagers go to Ségou wh					ild dilloos the					

		<ul> <li>Accurate records of manufacturing activities in each village are not kept and distribution of profits is not clearly recorded. There is a lack of calculating and bookkeeping skills.</li> </ul>		
Benefici	ial Impact Seen	<ul> <li>Manufacturing skills have been established and opportunities to obtain cash income increased.</li> <li>This has been highly appraised by women.</li> <li>Villages, and particularly the women, have been energized through this project and activities</li> </ul>		
		(namely, activities for improving living conditions) have been implemented by Women's Sections that previously existed only in name.		
Evaluation		· Establishment of manufacturing skills is relatively easy.		
		This project contributes greatly to energizing the whole village.		
		• Overall, the project is highly feasible and is appropriate to be incorporated in the M/P.		
Feedback to MP		<ul> <li>Periodic guidance should be provided by extension workers to improve accounting skills and draw up financial management rules.</li> </ul>		

#### 2.2.6 Transition of Farmer's Agricultural Operation

For the verification study, the income of each farmer in the twelve villages was checked (careful examination of UPAs) to evaluate the verification projects from the standpoint of agricultural operation of farmers. The study of the income trend began from July 2001 and data on cash income were checked for more than a year. During this study, three UPAs among the twelve carefully examined ones dropped from the study since the data could not be recorded due to the emigration of literary men.

As a result, the annual cash income per one UPA was a maximum of 7.26 million Fcfa and the minimum of 270,000 Fcfa, with an average of 1.68 million Fcfa, a surprisingly high income in this area.

The UPAs to be carefully examined were selected by the villagers under the provision that there were literary men. In the local society with low literacy rate, the condition given by the study team indicated the UPAs located at the upper level of village class, that means, these UPAs were confirmed to belong to the upper level class, also from the economical standpoint. The UPAs with more than 1 million Fcfa of cash income are the business entities that also operate wholesale or retail business in the village such as the kiosk or brokerage.

Looking at the cash income and expenditure, three UPAs among nine had profits. (Refer to Figure 2.2.6.1) The deficits are assumed to indicate the amount of stock in commercial activity, self-consumption of products, or purchasing of capital goods.

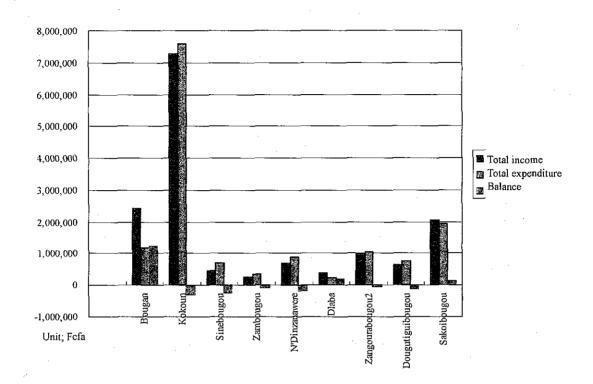


Figure 2.2.6.1 Cash income and expenditure in the carefully examined UPAs

By looking at the contents of cash income and expenditure in a year in the data of UPA in Dlaba Village (Table 2.2.6.1), which is considered closest to the general UPA of farmers in the verification districts, the following matters can be pointed out.

- ① 80% of income came from millet sales. The income from agricultural and stock raising including chicken, sheep, and Bambara beans accounts for approximately 90% of the total income.
- ② The income item exceeding 10,000 Fcfa constitutes a valuable income source.

"Introduction of improved seeds and fertilizers", "introduction of improved breed of chicken", "sheep fattening", and "vegetable cultivation", which were treated as the verification projects, could have the annual income of more than 10,000 Fcfa. These projects are considered extremely valuable from the standpoint of cash income and expenditure of farmers.

Table 2.2.6.1 Cash income and expenditure of carefully examined UPAs in Dlaba Village

Unit: Fcfa

1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,		Taxable manual franchist and the second	T.,1 0.1	A 0.1	0.00	10 40	No. 01	Doc-01	100.00	Feb 02	Mar-02	Anr-02	May-02	Jun-02	Tota
Contract of farming		1	11.150	2.200	685	83,000	101	84.750	20.500	4.000	26.750	45.800	18,500	18,900	316,235
Courteet of farming   8.500   310   750   12,500   12,500   310   750   12,500   310   750   310   3		Chicken sales		2.800	1,600	5.650	2.850				5,000				17,900
Wage         3,000         2,595         89,400         12,500           Baobab powder         Sheep states         1,2,500         1,2,500         4,000         31,750           Bambara of beans         More transport         21,600         2,595         89,400         2,850         97,250         20,500         3,1750           Rock (including millet and fonic)         21,000         1,3         1,000         3,000         3,000         3,000         3,1750           Dried firsh         Trust (coniety, manago)         1,000         1,300         1,300         1,500         2,150         2,150           Man Print (coniety, manago)         1,000         1,300         1,325         1,000         2,550         2,150         3,150           More firsh         More firsh         1,000         1,300         1,325         1,000 <td></td> <td>Contract of farming</td> <td>8,500</td> <td></td> <td>5,500</td> <td>14,000</td>		Contract of farming	8,500											5,500	14,000
Backet power   Backet power   Backet power   Backet pales   Back		Wage	3,000			750								•	3,750
Stheep sales  Banchers bearsa  Monetary Offering for the deceased  Another bearsa  Rice (including millet and fonio)  Rice (including gags)  Sugar  Sugar  Sugar  Sugar  Sugar  Subar  S		Baobab powder			310					-					310
Bambara bears         Stroken		Sheep sales						12,500							12,500
Monetary offering for the decessed         22,650         5,000         1,550         3,000         30,000         3,1750           Rice (including milet and fonio)         2,105         70         1,000         3,000         3,000         30,000         3,1750           Fulls (center, mango)         1,000         7,50         1,000         2,350         2,150         2,150           Fulls (center, mango)         1,000         1,500         1,225         1,000         2,350         2,150           Dried (she mango)         1,000         1,000         1,225         1,000         2,350         2,150           Chiclen (including egg)         1,000         1,500         1,500         1,500         1,715         3,500           Sugar         1,000         1,500         1,500         1,500         2,500         1,715         3,500           Sugar         1,000         1,500         1,500         1,500         1,715         3,500         1,715         3,500         1,715         1,715         3,500         1,715         3,500         1,715         3,500         1,715         1,715         1,715         1,715         1,715         1,715         1,715         1,715         1,715         1,715		Bambara beans											10,750		10,750
Name   Total income   12,650   5,000   2,595   89,410   2,850   97,250   20,540   4,000   3,550     Nice (including millet and fonio)   2,100   1,00		Monetary offering for the deceased										18,750			18,750
Rice (including millet and fonio)         2,100         75         3,000         30,000         550         50,000		Total income	22,650	5,000	2,595	89,400	2,850	97,250	20,500	4,000	31,750	64,550	29,250	24,400	394,195
Milk Fruits (chief, mango)         1400         75         100         100         100         100         100         100         100         2.150		Rice (including millet and fonio)	2,100				3,000	30,000			550	275		4,420	40,345
Fruits (conier, manago)         150         500         135         1 000         2,150         2,100		Milk	400	75			100						1,750		2,325
Meat         Direct fish         1,000         750         1,325         1,000         2,350         2,150         2,150         2,150         2,150         2,150         2,150         2,150         2,150         2,150         2,150         2,100		Fruits (ronier, mango)	150	200											650
Diried fish         1,000         1,900         1,500         2,500         2,500           Clicken (including egg)         1,000         550         1,500         2,500         1,475         6,750           Sugar         1,000         1,00         1,00         1,00         1,00         1,00         1,00           Sugar         1,00         1,00         1,00         1,00         1,00         1,00         1,00           Sugar         1,00         1,00         1,00         1,00         1,00         1,00         1,00           Pearunt burler         2,000         1,00 <td></td> <td>Meat</td> <td>1,000</td> <td>750</td> <td>1,325</td> <td>1,000</td> <td>2,350</td> <td></td> <td></td> <td></td> <td>2,150</td> <td></td> <td>2,200</td> <td></td> <td>10,775</td>		Meat	1,000	750	1,325	1,000	2,350				2,150		2,200		10,775
Chicken (including egg)         1,800         550         1,500         6,550           Sugar         1,600         250         1,615         950         1,415         850           Sugar         100         250         1,615         950         1,415         850           Sugar         100         100         100         300         100           Peanut butter         100         1,620         1,620         300         100           Nan         100         1,620         1,620         1,75         2,00         1,75           Sine butter         2,000         2,000         5,300         8,800         2,500         2,000           Sine butter         2,000         5,300         8,800         2,500         2,000           Sine butter         1,250         6,50         300         650         870         1,50           Sine butter         1,250         6,50         300         650         8,800         2,500         2,000           Sine butter         3,00         6,50         300         650         8,800         2,500         1,50           Soap (diff and consolatory goods         1,700         1,800         1,800		Dried fish	1,000	1,900			3,250	2,000		2,500		1,300	200	2,500	14,950
Sugar         Sugar         600         250         1,625         950         1,475         850           Peanut butter         100         150         200         100           Vegetable (including potatio and watermelon)         400         150         200         300           Vegetable (including potatio and watermelon)         150         200         100         300           Vegetable (including potatio and watermelon)         150         150         200         100           Nea butter         150         200         200         175         250           Spice         150         200         88         8800         2,500         2,000           Spice         1,250         850         850         825         87         100         100           Spice         1,250         650         850         825         87         125         125           Sobato         1,00         1,750         80         82         87         125         125           Sobato         1,00         1,750         82         82         87         125         125           Sobato         1,00         1,75         1,750         1,750         1		Chicken (including egg)	1,800	550	]		1,500				6,750				10,600
Salt         100         100         50         100           Peanut butter         Vegetable (including potato and watermelon)         400         150         200         300           Cookie and candy         150         5300         25         100         175         250           Nan         Sisa butter         200         5300         550         250         250         250           Sisa butter         2000         5300         550         825         825         250         200           Sisa butter         2000         550         820         825         825         80         250         200           Soap (4)         1,250         650         850         825         825         87         125           Soap (4)         1,025         1,800         550         825         825         87         125           Soap (4)         1,025         1,800         550         825         825         87         125           Soap (4)         1,750         4,900         4,97         1,850         4,975         1,850         1,850           Pharmaceutical products         1,750         2,700         1,500         1,500		Sugar	009			250	1,625	950	1,475		850		800		6,550
Peanut butter         400         150         300           Vegetable (including potato and watermelon)         400         150         200           Cooke and candy         150         50         25         10           Nan         150         5,300         5,300         1,75         250           Shea butter         1,250         650         300         650         88,00         2,500         2,000           Shea butter         1,250         650         300         650         825         875         100         1,02           Tobaco         1,025         1,800         50         550         825         875         100         1,02           Soap (4)         1,025         1,800         50         850         825         875         100         1,50		Salt	100				100			50	100				350
Vegetable (including potato and watermelon)         400         150         200           Cookie and candy         Cookie and candy         100         25         250           Cookie and candy         Shab unter         150         5,300         5,300         105         2,000           Spice         Spice         1,220         650         850         850         875         2,000         2,000           Tobacco         1,025         1,800         50         850         875         875         105         105           Soap obspector         1,025         1,800         50         850         875         875         100         150		Peanut butter								300			100		400
Cookie and candy         Cookie and candy         Cookie and candy         150         250         250         250         250         250         250         250         250         250         250         250         250         2500         2,000		Vegetable (including potato and watermelon)			400	150			200						750
Name         Name         50         25         175         250           Sheab butter         Sheab butter         150         5300         650         850         2,500         2,000           Tobacco         1,025         1,800         500         550         825         875         1,25           Soap (4)         1,025         1,800         500         550         825         875         1,25           Baobab powder         1,025         1,800         500         550         825         875         1,25           Gift and consolatory goods         200         450         450         475         1,25           Medical service         1,750         4,800         4,825         4,825         4,825           Cloth (including shoes)         1,750         1,750         1,750         4,975         1,3850         4,825           Funeral expense         650         2,750         1,500         1,75         2,75         2,75         1,75         2,75           Daba         2,700         2,500         2,700         3,400         16,900         15,00         1,50           Daba         1,001         2,500         2,500         2,500		Cookie and candy							100						001
Shea butter         150         5,300         5,300         2,000		Nan					20	25		175	250		25		525
Spice         Spice         2,000         5,300         8,800         2,500         2,000           Tobacco         Soad (soad backer)         1,025         1,800         550         825         875         875         125           Soad babe bowder         1,025         1,800         550         100         150         75           Giff and consolatory goods         200         450         450         100         150         150           Pharmaceutical products         200         450         450         475         150         150           Medical service         Cloth (including shoes)         1,750         450         1,850         4,975         13,850         4,825           Funeral expense         650         275         325         375         425         275           Gasoline         Food bag         750         2,500         1,500         1,500         2,700           Plow and sickle         2,700         2,500         1,500         1,75         2,50         1,75           Buba         Wage for labor         1,8275         8,900         5,500         1,600         16,900         15,00           Total expenditure         1,8275         8,90		Shea butter		150											150
Tobacco         Tobacco         Soap (4)         Soap (4)         Soap (4)         1,250         650         850         825         875         875         1,250         1,025         1,800         550         825         875         1,250         1,250         1,250         1,250         1,250         1,250         4,50         1,250         4,75         1,250         4,75         1,250         4,75         1,250         4,75         1,250         4,75         1,250         4,75         1,250         4,825         2,50         1,500         4,75         1,3,850         4,825         2,50         2,750         2,750         1,500         1,75         2,75         2,75         2,75         2,50         1,500         1,75         1,750         2,75         2,700         1,75         1,750         2,700         1,75         1,750         2,700         1,75         1,750         <		Spice		2,000		5,300			8,800	2,500	2,000	1,000	2,000		23,600
Soap (4)         Soap (4)         1,025         1,800         550         825         825         875         125           Baobab powder         Gift and consolatory goods         300         450         100         150         175           Pharmaceutical products         200         450         475         100         150           Pharmaceutical products         1,750         475         475         250           Cloth (including shoes)         1,750         4,975         13,850         4,975         13,850         4,825           Cloth (including shoes)         5,500         275         275         275         275         275         275           Foas base         1,500         1,750         1,750         2,500         1,750         2,750         2,700         2,700         2,700         2,700         2,700         2,700         2,700         2,700         2,700         1,750         2,70	uti	Tobacco	1,250	650	300	650	850								3,700
Baobab powder         550         100         550         75           Gift and consolatory goods         300         450         100         150           Pharmaceutical products         200         475         150         150           Medical service         1,750         4,975         13,850         4,825           Cloth (including shoes)         650         275         325         375         425           Funeral expense         650         275         325         375         425           Gasoline         750         1,500         175         275           Plov and sickle         2,500         1,500         175         275           Daba         Wage for labor         75         75         1,750         1,75           Bucket         75         2,00         65         2,000         1,500         1,500           Other (unknown goods)         1,275         2,500         2,550         2,500         1,6,000         1,6,900         1,6,700           Total expenditure         18,275         8,900         5,550         2,000         18,075         1,6,700         1,6,700         1,6,700         1,6,700         1,6,700         1,6,700         1,		Soap (4)	1,025	1,800	200	550	825	825	875		125	275			6,800
Gift and consolatory goods         300         450         450         150         150           Pharmaceutical products         200         4         475         1           Medical service         1,750         4,975         1,3850         4,825           Cloth (including shoes)         1,750         4,975         13,850         4,825           Funeral expense         650         275         325         375         425         275           Food bag         750         250         1,500         175         275         275           Plow and sickle         2,700         175         2,700         4,000         2,700         1,750           Wage for labor         2,700         2,700         65         2,700         1,75         1,750           Loan payment         2,700         2,00         65         20,000         1,800         1,807           Other (unknown goods)         701         2,000         2,500         1,8,075         1,8,075	ədx	Baobab powder			550	100			•	350	75	•			1,075
A control products	E	Gift and consolatory goods	300		450					100	150		1,150		2,150
1,750   1,850   250		Pharmaceutical products	200						475			1,500			2,175
(including shoes)         (including shoes)         1,850         4,975         13,850         4,825           al expense         650         275         325         375         425         275           bag         750         2500         1,500         175         275           and sickle         2,700         175         175         175           for labor         2,700         4,000         1,75           payment         1,75         1,750         1,75           payment         1,75         1,750         1,75           quinknown goods)         18,275         8,900         5,550         33,800         16,900         22,000           (unknown goods)         18,275         8,900         5,550         8,615         20,000         33,800         16,900         13,075		Medical service	1,750								250				2,000
and sickle 650 275 325 375 425 275 275 250 1,500 175 4,000 65 650 2,700 65 65 65 65 65 65 65 65 65 65 65 65 65		Cloth (including shoes)					1,850		4.975	13,850	4,825			4,420	29,920
ine         650         275         325         375         425         275           bag         750         2500         1,500         175         2,700         175         2,700         175         1,500         1,500         1,500         1,500         1,500         1,500         1,500         1,500         1,500         1,500         1,500         1,750		Funeral expense										14,000			14,000
bagg         750         2500         1,500         175         1,500         175         1,500         175         1,500         1,500         1,500         1,500         1,750 <td></td> <td>Gasoline</td> <td>650</td> <td>275</td> <td>325</td> <td>375</td> <td>425</td> <td></td> <td></td> <td>275</td> <td></td> <td></td> <td></td> <td></td> <td>2,325</td>		Gasoline	650	275	325	375	425			275					2,325
and sickle 2,500 175   175		Food bag	750	250	1,500										2,500
for labor         2,700         4,000         4,000         6           paviment         75         1,750         1,750         1,750           (unknown goods)         200         65         15,900         18,075           Total expenditure         18,275         8,900         5,550         8,615         20,000         16,900         22,000		Plow and sickle	2,500			175						1,750	1,000	2,500	7,925
4,000   75   1,750   15,000   16,900   18,075		Daba	2,700												2,700
1,750   15,750   15,750   15,000   16,900   16,900   18,075   17,750   17		Wage for labor					4.000								4,000
l expenditure 18,275 8,900 5,550 8,615 20,000 33,800 16,900 22,000 18,075		Bucket					75								75
l expenditure 18,275 8,900 5,550 8,615 20,000 33,800 16,900 22,000 18,075		Loan payment					ļ			1,750					1,750
18,275 8,900 5,550 8,615 20,000 33,800 16,900 22,000 18,075		Other (unknown goods)			200	65		•		150			25	750	1,190
100 01   100 01   100 00   1		Total expenditure	18,275	8,900	5,550	8,615	20,000	33,800	16,900	22,000	18,075	1		14,590	196,355
1.5,000 - 1.5,000 - 1.5,000 - 1.7,100 - 63,400 - 1.6,000 - 1.5,000		Balance	4,375	-3,900	-2,955	80,785	-17,150	63,450	3,600	-18,000	13,675	44,450	19,700	9,810	197,840

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•	·		