THE FEASIBILITY STUDY ON THE WESTERN LEGAZPI IRRIGATION AND RURAL DEVELOPMENT PROJECT IN THE PHILIPPINES

TABLES

Table G.2.1 Agricultural Extension Services by Government Agencies Project Area (1/2)

Agency	Coverage	Activities in Albay	Activities in Camalig and Daraga	Extension	Type
A. Region 5					:
1. Department of Agriculture	RPM	Applied research, training, and GPEP Program	GPEP Program on irrigated nice areas	Staff support	
a. Feed and Diagnostic					
Laboratory Services	R/P/M	Feed analysis	Feed analysis	Staff support	
b. Albay Livestock Breeding					٠
Station	R/P/M	Breeding of hog, cattle and goat, including sale of improved breeds	Breeding of hog, cattle and goat, including sale of improved breeds	Staff support	
c. Agneultural Training Institute	P/M	Training of Technicians and farmers	Limited training on food processing [e.g kroepeck or shrimp]	Staff support	
	٠.				
II. Philippine Coconut Authority	R/P/M	Coconut rehabilitation and replanting	Coconut rehabilitation and replanting	Line function	
a. Albay Research Center	R/P	Crop varietal improvement [e.g. tissue culture] Crop protection[cadang-cadang]		Staff support	·
III. Fiber Industry Development Authority	RPM	Abaca replanting and rehabilitation	Abaca rehabilitation in Camalig	Line function Line function	
IV. Department of Agrarian Reform V. Department of Science and	R/P/M/	Land tenure improvement and leachold operation	Land tenure improvement and leasehold operation	Line function	
Technology	cc.	Commercialization of agro-based technology [e.g. citronella oil the municipality of Lipot]		Staff support	
				:	

Table G.2.1 Agricultural Extension Services by Government Agencies Project Area (2/2)

Agency Coverage	Activities in Albay	Activities in Camalig and Daraga	Extension Type
VI. Cooperative Development Authority	Registration and organization of cooperatives		Line function
B. Provincial Government of Albay			
I. Provincial Agricultural Office P/M	Crop and soil improvement including implementation of the Pilot Provincial Agricultural Extension Project[PPAEP] and GPEP program	GPEP program on irrigated rice areas	Staff support
II. Provincial Veterinary Services P/M	Livestock and dairy development and disease control	Livestock and dairy development and disease control	Staff support
III. Provincial Environment Office			
C. Municipal Governments of Camalig and Daraga			
a. Municipal Agricultural Offices		Crop. livestock, soil and water rural youth and cooperatives	Line function
D. Bicol University	Training, information dessimination and BIDANI	BIDANI in Daraga	Staff support
Acronyms			

BIDANI - Barangay Integrated Development Approach to Nutritional Improvement

GPEP - Gains Production Enhancement Program

R - Regionwide P - Provincewide M - Municipalwide

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Table G.2.2 Inventory of Research and Extension Facilities, Albay (1/2)

Agency	Service
I. DA Region 5	
a. Regional crop protection center	Research and training on pest, bio-control agents and resistant varieties
b. Regional food laboratory unit	Lectures and training on food technology
c. Trichoderma laboratory	Production and maintenance of T. harzianum and compost activators
d. Regional Plant Pest and Diagnosis Clinic	Diagnosis of plant pest and disease problem
e. Regional nursery	Propagation and demonstration of fruit tree seedlings
f. Tissue Culture Laboratory	Training and demonstration on cutflower production (orchids and anthurium)
g. Regional Animal Diagnostic laboratory	Vaccine production and animal disease diagnosis
h. Regional feed laboratory	Applied research and chemical analysis of common
i. Regional plant material certification	Technical assistance and training on bona-fide nursery operators
j. Soil and water laboratory services	Soil testing and microbiological analysis
k. RIARS training center	Training venue for all technical courses
I. Seed quality control	Quality control on seeds produced by seed growers
m. BIARC	Six research stations located in each province with
	specific commodity and development zones specialization
H. Davidski, I. A. adamba and Occasions	
Provincial Agricultural Services a. Provincial sub-nursery station Tagas, Daraga b. Pioduran soils and water station	Propagation of planting materials
c. On-farm trials Oas, Malinao and Manito	Demonstration for upland crops funded and maintained by PPAEP
d. Post-harvest facilities mechanical driers and solar de	· · · · · · · · · · · · · · · · · · ·
III. Provincial Veterinary Service	
Animal Insemination Center Cabangan, Camalig Artificial Insemination Center Rapu Rapu	Provides insemination service to livestock growers Provides AI services
c. Albay dairy plant Cabangan, Camalig	Production of milk and other dairy products
d. Livestock poultry production and training center	Training facility for livestock and poultry production
IV. Albay Experiment Station	
a. Pili nursery	Propagation of pili planting materials
Area=0.33ha	
6. Fruit tree nursery	Propagation of various fruit trees
Area=0.25ha	
c. Hanga plantation grove	Propagation of hanga (petroleum plant)
Area=4.0ha	planting materials
d. Pili grove Area=2.0ha	Propagation and testing of pili planting materials
e. Citrus plantation grove Area=3.75ha	Propagation and testing of citrus planting materials
f. Research area Area=14ha	Conduct of on-station research
g. Tiwi fry bank Baybay, Tiwi Albay	Production of shrimp fry

Table G.2.2 Inventory of Research and Extension Facilities, Albay (2/2)

Agency	Service
h. National Bangus Breeding Station	Production of bangus(milkfish) fry
Damacan Bacacay, Albay	
Livestock and poultry research and development center	Breeding center for swine and cattle
7. Fiber Industry Development Authority	
a. Sorsogon fiber seed bank	Main source of abaca planting materials
Area=31.70ha	•
b. Camarines Sur fiber seed bank	Main source of abaca planting materials
Area=30.6ha	
c. Albay tissue culture laboratory	Propagation of abaca planting materials
d. Sorsogon tissue culture laboratory	Propagation of abaca planting materials
e. Catanduanes fiber micro propagation laboratory	Propagation of abaca planting materials
f. Demonstration farm	Conduct of on-farm trials
Area=1.0ha	
1. Albay Research Center	
See separate list	
bev beplatte 11st	
II. Farmers Training Center	
a. Training Hall	Training of extension agents, farmers for Albay,
maximum capacity=350 persons	Sorsogon and Masbate
b. Dormitory	
maximum capacity= 64 persons	
III. Bicol University	
a. Assorted equipment	Mainly for instruction and demonstration purposes
b. Nursery	mainy for instruction and demonstration purposes

Table G.2.3 List of Small Coconut Farmers' Organization(SCFO)

	Status		Members		Total
		Small Owner	Tenant	Lessee	
Camalig					
a. Baligang SCFO	PCA	26	32	9	67
b. Taladong SCFO	CDA	21	13	9	. 43
c. Quirangay SCFO	*	13	22	5	40
d. Magogon SCFO	CDA	19	8	6	33
Sub-total(4)		79	75	29	183
Proportion by member(%)		43	41	16	100
Daraga					
a. Inarado SCFO	CDA	22	5	7	-34
b. Bascaran SCFO	CDA	19	7	6	32
c. Penafrancia SCFO	PCA	23	. 8	2	33
d. Gabawan SCFO	PCA	28	: 6	3	37
e. Tabon-Tabon SCFO	*	-30	9	0	39
f. Burgos SCFO	PCA	24	5	2	- 31
g. Mayon SCFO		20	4	6	30
h. San Ramon SCFO	*	31	5	3	39
i. Mabini SCFO	*	28	. 5	l	34
j. Maopi SCFO	*	19	5	. 1	28
Sub-total(10)		244	- 59	31	337
Proportion by member(%)		72	- 18	10	100

Source: Philippine Coconut Authority

PCA means PCA accredited

CDA means CDA accredited and has achieved cooperative status

^{*} Newly identified and without formal structure(i.e. no officers)

Table G.2.4 CIS Amortization Collection (1/3)

Region	1991	1992	1993	1994	1995
Region 1					
Current Accounts	275,195.25	650,141.77	554,493.79	278,429.53	11,100.00
Back Accounts	1,192,437.90	1,011,922.87	844,648.94	1,057,449.07	1,055,958.87
Total	1,467,633.15	1,662,064.64	1,399,142.73	1,335,878.60	1,067,058.87
Currently Due	2,977,265.06	3,562,056.91	3,433,839.52	3,196,602.95	1,075,876.60
Collection Efficiency	9%	18%	16%	9%	1%
Region 2					
Current Accounts	612,097.70	459,615.80	423,484.25	537,086.43	624,945.98
Back Accounts	918,146.57	689,424.00	635,226.39	805,629.65	937,418.97
Total	1,530,244.27	1,149,039.80	1,058,710.64	1,342,716.08	1,562,364.95
Currently Due	2,299,620.02	2,740,133.70	2,252,256.29	3,718,581.82	2,501,949.02
Collection Efficiency	27%	17%	19%	14%	25%
					v .
Region 3	•				
Current Accounts	1,087,233.20	1,021,101.29	609,642.92	655,995.60	286,967.11
Back Accounts	528,109.32	310,638.70	284,100.41	246,597.68	123,384.13
Total	1,615,342.52	1,331,739.99	893,743.33	902,593.28	410,351.24
Currently Due	2,937,434.12	2,996,179.20	3,094,163.76	2,872,798.81	1,598,229.50
Collection Efficiency	37%	34%	20%	23%	18%
Region 4	$(x_{i_1}, \dots, x_{i_n}) \in \mathbb{R}^n$				* 4
Current Accounts	1,930,894.51	1,149,488.46	877,023.55	501,221.94	634,398.67
Back Accounts	730,077.08	588,135.62	1,169,375.65	906,918.67	1,112,070.13
Total	2,660,971.59	1,737,624.08	2,046,399.20	1,408,140.61	1,746,468.80
Currently Due	4,883,922.81	4,612,802.81	4,716,681.91	5,562,640.07	7,819,570.98
Collection Efficiency	40%	25%	19%	9%	8%
Region 5		:			
Current Accounts	757,587.74	224,483.25	335,420.80	375,917.90	43,740.32
Back Accounts	545,025.59	846,699.90	503,131.20	563,876.85	611,385.31
Total	1,302,613.33	1,071,183.15	838,552.00	939,794.75	655,125.63
Currently Due	3,054,251.89	3,318,225.25	3,067,974.51	3,700,303.36	3,030,132.56
Collection Efficiency	25%	7%	11%	10%	1%

Table G.2.4 CIS Amortization Collection (2/3)

Region	1991	1992	1993	1994	1995
Region 6					
Current Accounts	757,112.57	711,449.64	419,148.53	478,969.10	402,011.12
Back Accounts	294,081.99	326,559.70	429,461.39	380,776.70	862,150.84
Total	1,051,194.56	1,038,009.34	848,609.92	859,745.80	1,264,161.96
Currently Due	1,754,971.19	1,878,702.05	2,166,511.27	2,330,403.90	2,330,403.90
Collection Efficiency	43%	38%	19%	21%	17%
	•				
Region 7 & 8					•
Current Accounts	542,050.26	634,728.00	614,650.73	838,518.28	691,014.66
Back Accounts	732,381.73	426,155.66	665,113.44	504,197.80	1,015,704.71
Total	1,274,431.99	1,060,883.66	1,279,764.17	1,342,716.08	1,706,719.37
Currently Due	3,322,155.90	3,827,454.17	4,677,869.39	5,310,403.61	5,972,500.57
Collection Efficiency	16%	17%	13%	16%	12%
Region 9					
Current Accounts	724,354.81	573,928.16	502,153.45	383,254.36	171,288.90
Back Accounts	168,393.61	217,239.10	390,594.97	319,437.65	388,181.77
Total	892,748.42	791,167.26	892,748.42	702,692.01	559,470.67
Currently Due	1,524,440.04	1,568,149.50	1,143,404.60	1,893,754.27	2,041,964.54
Collection Efficiency	48%	37%	44%	20%	8%
Region 10	•			·	
Current Accounts	1,244,006.93	1,169,900.22	1,360,819.27	1,334,959.82	449,928.50
Back Accounts	389,920.54	227,247.04	299,903.36	309,549.00	745,880.79
Total	1,633,927.47	1,397,147.26	1,660,722.63	1,644,508.82	1,195,809.29
Currently Due	5,508,326.15	5,248,928.16	3,356,681.33	3,819,225.17	4,118,482.67
Collection Efficiency	23%	22%	41%	35%	11%
		**			•
Region 11	1		,14		
Current Accounts	1,255,341.04	1,359,865.42	1,606,302.83	1,926,821.79	1,907,667.71
Back Accounts	602,661.84	862,732.20	1,166,480.73	1,265,577.43	1,299,574.61
Total	1,858,002.88	2,222,597.62	2,772,783.56	3,192,399.22	3,207,242.32
Currently Due	2,552,771.93	2,610,885.65	2,734,562.02	3,901,665.20	2,612,858.86
Collection Efficiency	49%	52%	59%	49%	73%

Table G.2.4 CIS Amortization Collection (3/3)

Region	1991	1992	1993	1994	1995
Region 12					
Current Accounts	978,014.50	841,168.61	1,142,577.72	1,424,058.43	804,806.27
Back Accounts	199,654.66	327,209.01	669,998.22	610,310.76	1,621,611.06
Total	1,177,669.16	1,168,377.62	1,812,575.94	2,034,369.19	2,426,417.33
Currently Due	4,943,571.29	4,753,669.23	5,977,351.98	6,392,139.55	5,605,786.18
Collection Efficiency	20%	18%	19%	22%	14%
CAR				•	
Current Accounts	110,560.48	120,556.75	84,049.02	198,223.51	133,801.54
Back Accounts	133,727.24	137,779.01	84,299.00	242,273.18	15,576.00
Total	244,287.72	258,335.76	168,348.02	440,496.69	149,377.54
Currently Due	978,265.06	1,172,954.03	1,275,389.77	1,296,187.33	257,628.82
Collection Efficiency	11%	10%	7%	15%	52%
			•		
Grand Total				•	
Current Accounts	10,274,448.99	8,916,427.37	8,529,766.86	8,933,456.69	6,161,670.78
Back Accounts	6,434,618.07	5,971,742.81	7,142,333.70	7,212,594.44	9,788,897.19
Total	16,709,067.06	14,888,170.18	15,672,100.56	16,146,051.13	15,950,567.97
Currently Due	36,736,995.46	38,290,140.66	37,896,686.35	43,994,706.04	38,965,384.20
Collection Efficiency	28%	23%	23%	20%	16%

Source: National Irrigation Administration

Table G.2.5 Technical Personnel of Agricultural Research and Extension

Agency		umber of Personnel
Region 5		
A. Departm	ent of Agriculture	
	I. Field Operations and Technical Services Division	
	a. Operations Coordination Service	7
	b. Agricultural Communication Services	9
	e. Regional Engineering Task Force	4
-	d. Regional Crop Protection Center	10
	e. Agribusiness Services	5
	f. Regional Food Laboratory Unit	2
ŧ	g. Trichoderma Laboratory	2
	h. Regional Plant Pest and Disease Diagnosis Clinic	7
		2
	i. Regional Nursery	5
•	j. Tissue Culture Laboratory	.,
1.0	II. Regulatory Division	10
	a. Fishery Regulation	10
	b. Livestock Regulation	5
	c. Veterinary Quarantine Service	2
	d. Plant Quarantine Service	, i
	e. Regional Feed Laboratory	1
	f. Regional Plant Material Certification	4
	g. Seed Quality Control	5
	h. Regional Fisheries Diagnostic Laboratory	. 2
•	i. Soil and Water Laboratory Services	2
-	III. Office of Regional Director	
	a. Regional Agri. Information Mgt. Staff	1
-	b. Planning and Monitoring Services	1 .
	c. RIARS Training Center	1
	IV. Special National Programs and Foreign Assisted Projects	
	a. Livelihood Enhancement for Agricultural Development	2
F	b. Fishery Sector Program	7
	c. Comprehensive Agrarian Reform Program	1
	d. Pro-Poor DA Intervention Program	1
	V. Bicol Integrated Agricultural Research Center	15
		1
	a. Research Outreach Station, Albay*	115
		113
Province of		40
	B. Provincial Agricultural Services	68
	C. Provincial Veterinary Services	34
	D. Provincial Environment Services**	1 1 103
		. 103
Municipal		14
	E. Municipal Agricultural Services, Camalig	16
-	F. Municipal Agricultural Services, Daraga	14
		30
Specialized	Agencies(Provincial-Based)	22
	G. Philippine Coconut Authority***	22
	H. Albay Research Center(PCA)	
	I. Fiber Industry Development Authority	
	J. ATI-Farmers Training Center(FTC)	. 10
	K. Bicol University College of Agriculture & Forestry	•
	L. Department of Science and Technology	
	rsonnel is defined as one who has completed	

* Includes the head of office only

^{**} Includes the head of office, the only filled up position out of 17 positions

^{***} Includes the technical staff of region plus regional and assistant regional director

Table G.3.1 Scope and Accomplishment of CARP in Camalig (1/3)

		Scope	_		complishment	
Barangay	Area(Ifa)		Farmer	Area(Ha)	Farmer	Barangay
I. Quirangay						
	102.12	0		0	۸	
CA OLT	197.12 5.64	0 7		1.36	0	
vos	39.51	17		8.7	4	and the second s
VLT	0	0		0	0	
GFI	0	0		0	0	
Leasehold				41.62	50	
II. Salugan						٠
CA .	33.74	0		0	0	
OLT	0	0		0	0	
vos	Õ	ō		o o	0	
VLT	0	0		• 0	. 0	
GFI	ő	ŏ		0	ő	
Leasehold	0	0		0	Ö	
III. Gapo	U	Ū		V		
CA	11.49	0		0	0	
OLT	1.87	4		0	. 0	
vos	. 0	0		0	0	
VLT	. 0	. 0		0	0	
GFI	0	0		0	. 0	
Leasehold	•			18.47	34	
IV. Camalig						•
CÀ	0	0	•	0	. 0	100
OLT	0	0		Ō	0	
VOS	0	ō		ŏ	0	:
VLT	ő	ő	•	Ö	Ŏ	:
GFI .	0	· ŏ		0	ő	
Leasehold	Ö	. 0		. 0	ŏ	
4		J		, •		
V. Tinago				\$ 100 miles		
CA ·	4.02	. 0		0	0	
OLT	0	. 0		0	0	
vos	. 0	. 0		0	0	
VLT	Ò	0		. 0	0	
GFI :	. 0	. 0	•	0	0	
Leasehold		•		0	0	
VI. Sogong/Illawod						
CA	27.43	0		0	0	
OLT .	8.48	17		5.32	ıı u	
vos	6,43 0	0			0	
VUS VLT	0	0		0		
				0	0	
GFI	0	0		0	0	
Leasehold		-		36.56	: 49	
VII. Libod						
CA	49.72	0		0	0	
OLT	16.28	21		10.52	- 14	
VOS	0.64	0		. 0	0	
VLT	0	0		0	0	
	0.94	0		Ö	0	
GFI	U.71	v		v	U	

Table G.3.1 Scope and Accomplishment of CARP in Camalig (2/3)

_	Sec		_		omplishment	
Barangay	Area(Ha)	!	armer	Area(Ha)	Farmer	Barangay
VIII. Ligban					•	
CA	1,63	Ó		. 0	0	
OLT [.]	0.59	2		0.59	2	
VOS		0		0.39	0	
	0			0		
VLT	0	0			0	
GFI	0	. 0		0	0	
Leasehold				5.4	12	
IX. Tagaytay						
CA	67.36	0		. 0	0	
OLT	5.48	9		5.48	9	
vos	0	. 0		0	0	•
VLT	0	0		0	0	
GFI	ō	0		Ō	0	
Leasehold	ő	ő		37.58	59	
	, v			31,30	32	
X. Gotob						
CA	5.67	0		0	0	}
OLT	6.98	10		6.98	10	
vos ·	0	0		. 0	. 0	
VLT	0	0		0	. 0	
GFI	ŏ	o ·		0	Ö	
Leasehold		v		10.97	20	
XI. Baligang						
		•				
CA	98.44	0		0	0	
OLT	. 0	0		0	Q	
VOS	20.16	7		0		١.
VLT	. 0	0		0	0	
GFI	0	0		. 0	0	
Leasehold			1.	5.32	·	
XII. Tagoytoy						
CA	9.73	0		0	0	
OLT	0	. 0		0		
VOS	0	0		0	0	
VLT	Ö	. 0		0	C	
GFI	ő	ŏ		0	. 0	
Leasehold		•		. 0)) ,
				. 0	•	
XIII. Talodong						
CA	25.3	0		0	0	
OLT	0	. 0		0	C	
VOS	2.56	1	•	. 0) .
VLT .	0	0		0		
GFI	0	. 0		: 0	0)
Leasehold				0.75	2	!
XIV. Binatayan						
CA	3.07	0		• 0		1
OLT.				0	O C	
	0	0	•			
VOS	0	0		0	0	
YLT	0	0		0	·	
GFI	0	0		. 0	0	
Leasehold	0	0		0	0	ŀ

Table G.3.1 Scope and Accomplishment of CARP in Camalig (3/3)

	Sco			ccomplishment	
Barangay	Area(Ha)	Farm	er Area(Ha)	Farmer	Baranga
XV. Comon					
CA	20.57	0	0	(
OLT	1.52	3	0.78		
VOS	6.52	4	0	(
VLT	. 0	0	0	· (
GFI [0	0	, , 0	()
Leasehold	0	0	3.75		5
XVI. Bongabong	-				
	85.18	0	. 0	(
CA OLT	83.18	0	0		
OLT			0		
VOS	27.88	16	. 0		
VLT	0	0	_	(
GFL	3.25	2	3.25		
Lesehold			10.86	26	•
XVII, Cotmon					
CA	120.54	0	0	()
OLT	6.5	13	6.5	13	3
VOS	0	0	. 0		
VLT	0.45	. 1	0		
GFI	. 0	0	0)
Leasehold		· ·	13.94		
	•		1.0		
XVIII. Del Rosario	-			* *	
CA .	15.62	0 ,	0)
OLT	0	0	0	, J) .
vos	2.9	1	0	. (
VLT	0	0	. 0	()
GFI -	0	ŋ	0		
Leasehold	4	* -	. 0)
XIX. Panoypoy					
	4.				
CA	56.38	0	0	· ·)
OLT	0	0	. 0)
VOS	0	0	.0) .
VLT	0	0	0) .
GFI	0	0	0	,)
Leasehold	. *		0.5	•	1
XX. Magogon					
CA	2.21	0	0	+	0
OLT	0	ŏ	ő		, O
vos	0	. 0	. 0		0
VLT	0	0	0)
	0	0	0		0
GFI	. U	U			
Leasehold			0		0

Source: Municipal Agrarian Reform Office, Camalig

CA - Compulsory Acquisition OLT - Operation Land Transfer

VOS - Voluntary Offer to sell

VLT - Voluntary Land Transfer

GFI - Government Financial Institution

Table G.3.2 Scope and Accomplishment of CARP in Daraga (1/3)

		Scop Area(Ha) F			iplishment Ha) Farmer	•
		Atta(fia) F	4111161	Allali	isa; Tartice	
Barangay Study Area						
. Alobo						
CA .		9.42	0		0	0
OLT		5,65	3		5.65	3
vos :		0	0		0	0
/LT		• 0	0		0	0
GFI .		0.7	2		0.7	2
easchold					9.2	17
I. Anislag	1.1					
CA .		163.66	0	•	0 -	0
OLT		5.65	3	4	5.65	3
vos		0	0		0	0
VLT		0	0		. 0	0
GFL	:	0	0		0	0
easchold					7.71	9
II. Bascaran						
CA :		39.48	0		0	0
.A OLT		6.36	. 8		4.25	6
OLI VOS		0.30 14.1	. 9		4.23 6.94	6
VLT		0	ó		0	ŏ
GFI		0	0		0	o
rei Leaschold			Ψ.		11.5	22
V. Burges						
CA		23.28	0		0 .	0
OLT		7.75	10		7.5	9
VOS		19.14	. 8		26	2
VLT		0	ŏ		0	0
GFI		ő	0		0	0
Leasehold		·	v		11.4	15
V. Canarom						
		47.04	0		0	0 -
CA		47.04	0		0	Ô
OLT VOS		9.82	• 4		8.49	3
		9.82	0	•	0.49	0
VLT : GFI		0	0		0	0
ori Leasehold		·	v		0	o
VI, De la Paz						4
		110	^		0	0
CA OLT		2.18 0	0 0		0	0
VOS		. 0	0		ŏ	o
VLT		0	0		Ŏ	Ō
GEI		. 0	0		Ö	0
Leaschold			. •		Ŏ	Ō
VII. Dinoronan		•				
		. 0	. 0		0	0
		0	0		0	0
OLT						
CA OLT VOS		0	0		0	0
OLT VOS VLT		0	0		0	0
OLT VOS		0	0	·		

Table G.3.2 Scope and Accomplishment of CARP in Daraga (2/3)

		e	Accomplishm		
A	rea(Ha) F		Area(Ha) F		
VIII. Gabawen					
CA	6.82	0	0	0	
OLT	5.01	9	4.02	7	
vos	2.12	ĺ	2.12	1	
YLT	0	0	0	Ô	
GFI	0	0	. 0	0	
Leasehold			0.99	10	
IX. Gapo					
		_		_	
CA :	31.67	0	0	. 0	
OLT VOS	- 0 4.19	0	0	. 0	
VLT	0.36	7	4.19 0	7	
GFI	0.30	0	. 0	0	
Leaschold		v	49,43	. 79	
X. Inarado					
CA	7.76	0	0	0	
OLT	0	Ö	ň	ŏ	
VOS	0	0	0	0	
VLT	; 0	• 0	. 0	0	
GFI	1.76	2	1.76	. 2	
Leasehold		:	9.68	27	
XI. Kidaco	•		•		
CA			_		
OLT	0 2.51	0	0	. 0	
VOS	2.31	6	2.51 0	6 0	
VLT	. 0	0	0	. 0	•
GFI	0	Ŏ	ő	0	
Leaschold	•		5.33	19	
XII. Kinawitan					
	:				
CA ·	1.15	0	0	. 0	
OLT	0	0	0	0	
VOS	. 0	0	0	0	
VLT GFI	0 0.94	0	0	0	
Leaschold	0.94	. 1	0.94 0	0	
				. 0	
XIII. Mabini	**				
CA .	9.41	0	0	. 0	
OLT	0	0	0	Ö	
vos	0	0	0	0	
VLT	0	0	0	0	
GFI	0	0	0	0	
Leasehold			4.5	. 7	
XIV. Maopi	ě				
CA	20 55	Α			
OLT	38.55 0	0	0	0	
VOS	2.34	3	0	0	
VLT	2.34	0	2.34 0	3 0	
GFI	0	0	0	0	
Leaschold	J	J	0	. 0	
XV. Mayon				•	
CA	50.91	0	0	0	
OLT	6.03	15	5.83	14	

Table G.3.2 Scope and Accomplishment of CARP in Daraga (3/3)

	Scop		Accomplis	
	Area(Ha) F.	armer	Area(Ha)	Farmer
VLŦ	0	0	0	0
GFI	0	0	0	· 0
Leasehold			1.85	6
XVI. Namantao				
CA	35.16	0	. 0	0
OLT	0	: 0	Ö	
VOS	2.08	- 1	2.08	
VLT	0	ò	0	
GEL	o	0	Ō	
Leasehold	-		10.59	9
XVII, Penafrancia				
CA	45.16	0	0	
OLT	0	0	0	
VOS	0.73	1	0	
VLT	0	0 0	0	
GFI	0	U	0.56	
Leaschold			. 0.50	
XVIII. San Rafael				
CA	1.45	0	. 0	. 0
OLT	0	0	. 0	
VOS	32.31	12	2.07	
VLT	0	0	0	
GFI :	0	0	. 0	
Leasehold			0	0
XIX. San Ramon				
CA	141.36	0	0	. 0
OLT	. 0	0	. 0	0
vos	135.31	51	36.04	. 19
VLT	0	0	. • 0	
GFI	0	0	0	
Leaschold	*			0
XX. San Vicente Pequeno				
CA	26.6	. 0		0
OLT	0	ō		
vos	11.13	. 5	11.13	:
GFI	0	0	0	0
Leasehold			0	0
XXI. Tabon-Tabon	•			
CA	0	0	(
OLT	0.38	1	0.38	
VOS	0	0 0	(
VLT	0 4.95	9	4.03	
GFI	4.93	y y	4.03 19.05	
Leasehold			19.00	. 10
XXII. Talahib				
CA	59.22	. 0	. (
OLT	0	0	(
vos	41.08	17	24.13	
VLT	0	0	· . (· ·
GFI	0	0		
Leasehold			(0

Source: Municipal Agrarian Reform Office, Daraga

CA - Compulsory Acquisition

OLT - Operation Land Transfer VOS - Voluntary Offer to sell

VLT - Voluntary Land Transfer

GFI - Government Financial Institutions

Table G.4.1 Masterlist of Cooperatives (1/2)

	Business	Number of Members	Capital Paid-Up
Study Area			
Camalig			
A. Baligang SCFO MPC	R/CT	40	58,962
Baligang, Camalig	200.	10	30,702
B. Cotmon RIC MPC	c	35	
Cotmon, Camalig			
C. Talodong SCFO MPC	СТ	27	0
Talodong, Camalig		_,	v
D. Camalig Transport			
Service Cooperative	T	50	: 0
Camalig, Albay			v
E. Mayon Eruption '93			
Evacuees	R	22	5,000
Dumpsite, Hawod Camalig			
F. Magogon Fanners MPC	R	35	16,200
Magogon, Camalig	1		
G. Mayon MPC	C	52	0
Talodong, Camatig		•	
H. Tagaytay MPC	PΤ	51	8,912
Tagaytay, Camalig			
I. Libod MPC	R	26	0
Libod, Camalig	1		. The second second
Daraga			
Daraga			*
A. Inarado SCFO Cooperative	R/PT	34	36,481
B. Bascaran SCFO Cooperative	R/CT	19	3,000
C. Penafrancia SCFO Cooperative	R	29	23,218
D. Gapo MPC	R	36	21,146
E. Gapo Credit Cooperative	R	37	27,101
F. Mayon Overseas MPC*	R	17	42,500
G. Small Farmers MPC	R/PT	35	7,000
Outside Study Area			
Camalig		• •	
A. Albay Dairy Farmers MPC	U	67	0
Cabangan, Camalig			* *
B. Damayan Camaligueno			
Devt. Cooperative*	R	40	0
Botica San Juan, Camalig		·	
C. Camalig Market			
Vendors MPC	R	56	54,072
Market Site, Camalig			e e e
D. Camalig MPC*		74	5,250
Valenciano St. Camalig	*		
B. Camalig Development Coop*	*U	33	8,300
Centro, Camalig			
F. Camalig KB for Credit	R	883	2,354,218
Camalig Parish Rectory			- •
G. Little Baguio Vegetable			
Growers Devt. Cooperative	R	•	0
Anoling, Camalig			**

Table G.4.1 Masterlist of Cooperatives (2/2)

	Business	Number of Members	Capital Paid-Up
H. Albay Kapatiran MPC* Cabangan, Camalig	U	16	8,700
I. Cooperative Bank		•	
Bank of Albay	R	•	3,254,887
Camalig, Albay		1	• •
J. Iluluan Farmers Devt. Cooperative	c	33	6,300
K. Miti Devt. Cooperative	· C	24	4,800
	÷	•	
Daraga			
A. Bicolandia Agro-Ind. Cooperative* Binitayan, Daraga	I	17	6,100
B. Albay Transport Service Cooperative Daraga, Albay	S	275	1,082,588
C. Our Lady of the Gate Credit	R	310	331,508
Daraga North Dist. Elem. School, Bagumbayan			
D. Daraga Community Devt. Cooperative*	R	35	47,100
Daraga, Albay	.	160	809,090
E. Daraga Teachers Credit Cooperative Bucels II, Daraga	R	159	
F. Albay Normal School Credit* Bicol University	R	170	51,054
G. Albay Normal School Consumers* Bicol University	C ·	25	5,000
II. Banag Devt. Cooperative Banag, Daraga	C	22	0
I. Kilicao Devt. Cooperative*	U ;	15	2,000
Kilikao, Daraga J. Sipi MPC*	R	27	5,000
St. Gregory Seminary, Sipi		20	16,933
K. Aquarious Devt. Cooperative	R	78	10,933
San Roque, Daraga		25	9,895
L. Coco Producers Cooperative * Salvacion, Daraga	U	23	2,023
M. Albay Jeepney Drivers			5.000
& Operators Cooperative	Ţ	25	5,000
N. Malabog Parish MPC	R/C	31	8,500
Upper Malabog, Daraga			4.000
O. Malabog Devt.	R	26	3,000
Cooperative, Malabog, Daraga		• •	444.000
P. Ibalon Farmers MPC	H	17	441,758
Busay, Daraga			A.C. 000
Q. Bicol Workers Devt. Cooperative*		20	25,000
Daraga Rural Bank			
R. Maranaw MPC	U	15	6,300
llawod, Daraga			•
Sources Connective Development Authority			
Source: Cooperative Development Authority	R-Handicraft	T-Transport	
C-Consumer store	•	U-Transport U-Unclassified	
I-Input Dealer	PT-Palay Trading	O-ORCIASSIRED	
CT-Copra Trading * Non-operational	S-Service	•	

FARMERS CONCERNS OF RURAL AND AGSICULTURAL DEVELOPMENT CAMALIG ENVERSION AND DAM 2

Table G.8.1 Attendance in First Consultation Meeting, Campalig Diversion and Dam No. 2 Loyland Model Project Areas

an	and Dain No.2 Lowland Model Project Areas Canalia Division Dam 2													<u>(U:≩:N</u>		poncents	1			
																	Joy one's			
ten		MNC	D/C	;	L/SC	C T	Sub- Iolai	*	ONC	OVC	USC	ÇŦ	Sub- total	%	ONG	O/C	usc	Cf	Total	*
No. of Respondents		8		40	93	25	166		11	44	84	27	166		19	84	177	52	332	
ima# Scale																				
Presont		. 0		6	18	ø	24	73	0	6	41	0		53	0	12	29	0	41	•
Absent		0		4	5	0	9	27	0	5	10	0	15	47	0	9	15	0	24	3
odium Scale																				
Present		0		1	24	0	25	37	0	. 9	22	. 0	31	48	0	10	46	0	56	•
Absert		0		19	23	. 0	25 42	63	0	13	20	0	33	52	0	32	43	0	75	
rog Scale			;																	
Present		. 0		6	12	0	18	55	0	8	11	0	19	- 59	0	14	23	. 0	37	
Absent		D		4	11	G	15	45	0	3	10	0	13	41	0	7	21	0	28	
retaker																				
Present		: 0		0	. 0	19	19	76	0	. 0	· ·	15	. 15	56	. 0	0	0	34	34	
Absent		8		0	0	- 6	6	24	0	0	G	15 12	12	44	0	0	0	18	18	
enor Non-bullivator	-					-														
Present		: 4		0	. 0	. 0	4	50	5	. 0	0	. 0	5	45	9	0	0	٥	9	
Absent		4		0	0	0	4	50	6	0	0	. 0	6	55	10	0	0	. 0	10	
Kal																				
esant		4		13 27	54	19	90	54	5	23	44	15		52	9	35	\$48	34	177	
bsent		4		27	29	6	76	46	6	21	40	12	79	48	10	48	79	18	155	

Table G.8.2 Extent of Achieving Farmers' Expectation in First Consultation Meeting,

Ca	matig				Dam	No.2	Lowl			Pro	nject	Areas					spondents	s}
			Diversion					- Oar						LQ.	wand Tot	al		
ltem	ONC	O/C	L/SC	CT	Sub- Iolai	%	ONC	O/C	USC	C?	Sub- totai	*	ONC	O/C	L/SC	cr	Total	*
No. of Respondents		13	54	19	90		5	23	44	15	87		9	36	98	34	177	
Small Scale																		1.1
Completely satisfied	. 0	5	- 14	0	19	79	• •	5	8	D	13	76	0	10	22	. 0	32	78
Highly satisfied	0	- 0	2	٥		8	0	0	2	0	2	12	•	Ó	- 4	. 0	4	10
Low level	0	. 0		ō		Ř	ō	1	. 0	0	. 1	6	Ď.	1	2	. 0	3	7
Not satisfied	Ō	ō	. 0	ă		ō	ŏ	Ó	1	ò	1	6	. 0	Ó	1	ō	1	2
No response	ā		ō	ō		ă	_	-	-			•	ě	1	ò	ō	•	
Modium Scale		•	_	•	•		100						•	•	•	•		-
Completely satisfied	0		22	a	23	92	Δ.	6	20	٥	26	84		7	42	0	49	88
Highly satisfied	ă		0	č		ô	ŏ	ř	ž	ŏ		13	ŏ	ż	ž	ň	- 7	7
Low level	ň	ŏ		ă		ř	. 0	•		ŏ	- 1	3	. 0	i	â	ŏ	. 3	ė
Not salished	ā	ň	ō	- 1		ň	, ,	ň	ň	ō	'n	-	ň		ñ	ā	ŏ	
Larga Scale	•	•				•				•		-	•			٠	•	_
Completely satisfied	a			a	12	67			10	0	16	84	0	10	18	0	28	76
Highly satisfied	0	- 7	2	ă		17		. 2		ő	2		۰,	3	. 2			14
Low level	ň	•	2	ŏ		17	ŏ	ó	•	ŏ	•	5		1	,	ŏ		11
Not satisfied			ñ	Ö				ň		ŏ		3		'n	,	ň	•	
Caretaker	v	v	v			ų.	U	v	U	U	υ	•	, v	V	v	v	U	•
Completely satisfied						30						4.7				22	22	65
Righly satisfied	ŏ	0		15		79		v		. :		.47 :		0	ž	9	22	
	,			3	3	16	Ū		Ň	6		40			v			26
Low leve!	0	0	0	1	1	. 5	0	U	0	2	. 5	13	0	0		. 3	3	9
Not satisfied	U	0	. 0	0	0	0 -	. 0	. 0	0	. 0	0	-	0	0	Q	0	0	-
Owner/Non-cultivator		_		_														
Completely satisfied	2	0	0	0		50	4	0	0	0	4	80	. 6	0	o	0	5	67
Highly satisfied	2		0	. 0		50	. 0	. 0	. 0	0	. 0	-	2	0	٥	. 0	2	52
Low level	0		0	. 0	. 0	0	1	0	0	. 0	. 1	20	1	D	•	0	1	11
Not satisfied	0	0	. 0	0	0	0	0	Q	0	0	0	•	0	0	0	0	.0	•
I otal								•					•			•		
Completely satisfied		10	44	15	71	79		17	38		66	76			82	22	137	77
Highly satisfied	• • •	10	**	13		11			36	6		16		27	50	. "	24	14
Low level	á	. 1	•	1		11 G	Ū	4	:		. 14					3		14
						Ä		2	•	2	. 6	7	•	- 3			14	•
Not satisfied	0		0	a		0	. 0	0	1	0	1	1		. 0	. !	. 0	. !	
No response	. 0	1	0	0	, ,	,	0	0	0	0	Đ	-	Q	1	0	0	1	7

Table G.8.3 Reasons for Unsatisfied Expectations in First Consultation Meeting, Camalig Diversion and Dam No.2 Lowland Model Project Areas

		Сапаза	Diversion					Dam	2						Unit : Notal		pondent	ł
tion.	O/NC	O/C	LSC	ĊT	\$:.5-	*	O/NC	O/C	USC	CT	Şub-	*	ONC	oc.	USC	CT	Total	*
					Total						Total							
No. of Respondents	4	13	54	19	90		5	23	4	15	87			3 6	98	34	177	
Small Scale							_	_					_	_				
Non-indusion of priority project component	O	0	0	0	0	Ð	Ð	C	0	0	0		9	0	0		6	
Project will not benefit me	C	. 9	0	0	Q	Ð	Ð	O	0	0	0	0	. 0	C	0	0	· O	-
Implementation of proposed project will temporarily affect my production	0	Q	0	0	0	D	0	0	0	0	D	0	0	C	0	0	٥	•
Project will not be implemented	0	0	0	Q	9	D	2	0	9	0	2	100	2	0	0	0	2	100
Sterium Scale																		
Non-Inclusion of priority project component	0	. 0	o	0	ø	0	0	0	0	0	0	0	0	0	0	0	Û	
Project will not benefit me	0	•	Q	0	. 0	0	0	0	Q	•	0	. 0	0	0	0	0	0	-
Implementation of proposed project will temporarily affect my production	0	0	0	. 0	. 0	0	0	0	0	6	٥	٥	. 0	0	0	0	0	٠
Project will not be implemented	0	4	. 0	0	. 0	0	0	0	. 0	- 0	•	0	0	0	0	- 5	0	-
Large Scale																		
Non-inclusion of priority project component	. 0	9	0	0	0	0	0	. 0	. 0	Ð	. 0	0	0	0	0	٥	0	-
Project will not benefit me	•	0	0	Ð	0	. 0	0	. D	0	0	0	0	0	. 0	0	0	0	
Implementation of proposed project will temporarily affect my production	Ð	9	9	0	0	٥	. •	1	0	0	1	100	. 0	1	0	. 0	,	50
Project will not be implemented	0	9	1	0	- 1	100	0	. 0	. 0	Ú	. 0	¢	G	0	1	٥	. 1	50
Caretaker	4.4																	
Non-inclusion of priority project component	. 0	0	G	- 0	: 0	Ð	0	i . 0	. 0	0	Ð	: 0	. 0	, b	Q	. 6	0	
Project will not benefit me	· D	9	G	4	- 0	9	. 0	. C	0	0	. 0	. 0	٥	. 0	- Q	6	. 0	
Implementation of proposed project	. D	0	0	0	₽.	0	. 0	0	0	0	0	Q	0	. 0	. 0	. 0	0	٠.
will temporarily affect my production																		
Project will not be implemented	0	0	. 0	0	c	a	0	0	0	. 0	. 0	0	O	0	0	0	. 0	•
Idal																		
Non-indusion of priority project component	0	0	0	Ð	0	0	0	. 0	. 0	0	0	0	Ģ	. 0	ø		0	-
Project will not benefit me	. 0	0	0	0	٥	9	0	. 0	. 0	. 0	a _.	0	. 0	0	0	₽	0	
Implementation of proposed project	0	0	C	9	G	0	0	1	0	٥	• 1	33	0		0	0	- 1	25
will temporality affect my production																		
Project will not be implemented	0	0	1	0	1	100	2	0	0	٥		67	. 2	o	1	C	3	75

Table G.8.4 Attainment of Stated Condition for the Implementation of the Project, Camalig Diversion and Dam No.2 Lowland Model Project Areas

																		pondents	1
			Drva sion						Dan i							and fota			
Nom	ONC	O/C	USC	CT	Sub- Total	*	Ö۸	vc	OVC	LSC	Cī	Sub- Total	*	O/NC	O/C	DSC	CT	Total	*
No. of Raspondents	8	40	93	25	166			11	44	64	27	166		19	84	177	52	332	
Small Scale																			
formation of Imigalors' Associations	0	, ,	22	0	29	33		11	11	19	C	41	36	11	10	41	. 0	70	35
Payment of Imigation Service Fee	0	, ,	22	0	29 24	33 33		10	10	16	. 0	38	33	10	1,7	40	C	67	33
ayment of Amortization of IA	0	. 3	22	0	29	33		14	9	. 17	. 0	36	31	10	16	39	C	65	3.
redium Scala																			
formation of Infigators Associations	c	19	47	0	66	34		0	21	41	0	62	35	0	40	. 88	. 0	128	34
Payment of Infigation Service Fee	0	18	47	C	65	34		0	18	42	0	. 60	34	0	36 33	89	9	125	. 34
Payment of Amortization of IA Large Scale	. •	15	47	o	63	32		0	17	40	. 0	57	32			67	0	120	37
formation of Intigators' Associations	ę	10	23	0	33	33		ø	10	21	٥	31	33	C	20	44	٥	64	3
Payment of Infration Service Fee	0	10	53	0	33 33	33 33		ø	51	· 21	0	32	34	. 6	21	44	0	65	34
Payment of Amortization of IA Caretaker	. •	10	23	C	33	33		0	10	21	_	31	33	¢	50	44	. 0	64	3.
Formation of imigators' Associations	0	- 5	. 0	25	. 25	. 33		0	0	0	27	27	33	. 0	0	. 0	52	52	3:
Payment of Imigation Service Field	0	9	, D	25	25	. 33		9	0	. 0	27	27	33	. 0	0	0	` 52	52	3
Payment of Americation of tA	0	. 0	. 0	25	25	33		Q	0	0	27	27	33	0	0	. 0	52	52	3
DenenNon-cultivator						33						л	_						3:
formation of irrigators' Associations			×	ŏ		33		ă	ŏ		×	ă		· i	ŏ				3
Payment of Imigation Service Fee				ă		33		ž	×		×	Ň		· ·	×	ň			3
Payment of Americation of IA			v	٠		33		٠			٠		•	•			•	•	-
		•								•		•						*	
Total :																		•	
Formation of Irrigators' Associations		36	92	25	151	34		11	42	81	27	161	34	11	78	173	52	3:4	3
Payment of Imigation Service Fee	. 8	35	92	25	160	33		10	39	81	27	157	33	10	74	173	52	309	3
Payment of Amortization of IA		33	92	25	156	33		10	36	79	27	151	32	10	69	170	52	301	3

·				
Note:				
O/C - Owner/Cultivalor				
ONC - Owner/Non-cultivator				
USC - Lessee/Sharacropper				
CT Carelaker				
IA - Inigators' Association				
Camaing Onersion				
	Yes	*	No	*
Formation of Infigators' Associations	161	97	. 5	3
Payment of Imigation Service Fee	: 160	36	6	4
Payment of Amortization of IA	158	95		
DAM 2	Yes	•	Na	%
Formation of Imigators' Associations	161	97	. 5	3
Payment of Irtigation Service Fee	157	95	. 9	5
Payment of Americation of IA	151	91	15	\$

Table G.8.5 Farmers Support for the Implementation of the Project, Camalig Diversion and Dam No.2 Lowland Model Project Areas

Canada International Canada Internationa Canada Internationa Canada Inte															(Unit : N Mand Tol		sponsen	s)
		Camañg	Diversion					Oam										
lten.	ONC	0/C	USC	CI	\$∪b- total	%	ONC	O/C	USC	CT	Sub- total	%	ONC	0/C	LISC	CT	Total	*
No. of Respondents	8	40	93	25	166		11	44	84	27	166		19	<u>84</u>	177	52	335	
Small Scale		_			~7			44	20	0	31	97	0	18	40	0	58	91
Will give necessary support	C		20	0	27 5	84	0	11	70	ŏ		2	×		73	Ň	5-8 6	7
Will not give support	0	3	2	•	5	16	v	U	1	v	•	,	Ų	,	•	·	•	•
Medium Scale				_			_				64	100	0	41	89	0	130	99
Will give necessary support	٥	19	47	e	65	99	0	55	42	0	04	100	ž	71	0	,	7.30	93
Will not give support	Q.	1	0	0	1	3	0	0	0	·	U	-	v	'	•	·	•	•
arge Scate							_					***		- 21	44	Ð	65	100
Will give necessary support	0	10	23	0	33	100	0	. 11	. 21	0	32 0	100	0	- 20	44	ů	60	100
Will not give support	0	٥	0	0	0	-	0	0	0	Q	U	-	U	v	U	v	U	
Caretaker							_	_	_				•		•	51		
Will give necessary support	0	0	0	- 24	24	96	Q	0		27	27	100	0	0	Ų	31	51	98
Will not give support	0	0	. 0	1	1	1 4	. 0	0	C	0	. 0	•	U	0	U	,	,	Z
Owner/Non-cultivator										_				_				4 741
Will give necessary support	8	0	. 0		- 8	100	11	0		0		100	19	9		ō	19 0	100
Will not give support	6	0	0	0	0	-	0	0	0	0	0	-	0	0		U		•
रिश्रं को										:								:
Will give necessary support	. 8	36	90	24	156	95	31	44	83		165	. 99	- 19	80	173	51	323	97
Will not give support	. 0	4	2	1	7	4	0	0	\$	0	1 .	. 1	0	. 4	3	1	8	
No response	0	0		٥	1	1	. 0	0	O	. 0	. 0	-	0	0	1	е	1	0

Table G.8.6 Willingness to Allow Right of Way, Camalig Diversion and

	ım No		Diversion					Dam	2					. Lo	wtand Tot	al		
Item	O/NC	O.C	USC	CT	Sub- lotal	%	ONC	O/C	USC	CT	Sub- total	%	O/NC	O/C	t/SC	CT	Total	%
No. of Respondents	8	40	93	25	166		11	44	84	27	166		19	84	177	52	332	
imal Scale							_			_			_			•	e à	83
Vill allow	o	7	19	. 0	26	79	0	10	18	0	28	88 13	ŭ	17	37	ŏ	54 11	17
Vill not allow	. 0	3	4	G	. 7	21	. 0	1	3	0	4	1.5	U	4	r	v	"	"
Aadium Scale							_			_							400	
Vill allow	٥		45	0	62 5	93	. 0	21	42	0	63	98	0	38	87	v	125	95
Mill not allow	0	3	2	0	5	7	0	1	0	0	. 1	2	U	4	2		. 0	3
arge Scale													1					
Nill allow	0		21	0	31	94	0	. 11	20	o.	31	97	Ų	21	43	. 0	62	95
Att not allow	0	0	2	0	2	6	. 0	. 0	. 1	0	1	3	Q	. 0	. 3	. 0	3	
Caretaker													_	1			4.5	
Nill allow	. 0	0	0	50	20 5	80 20	0	: 0	. 0	27	27	100	0	0	0	47	47	90
Nill not allow	. 0	0	. 0	5	5	20	. 0	. 0	0	Q	0	-	. 0	0	Q	. 5	5	10
Dwner/Non-cuttivator																		
Aid allow	8	. 0	. 0	0	8	100	- 11	. 0	. 0	0	0	• .	19	. 0	0	0	19	100
wofs for Ili'A	0	. 0	0	O	.0	•	0		. 0	0	0	•	o	0	0	0	0	
								•										
[cgai				- 20	4.47	89			BO.	27	160	96	19	76	165	47	307	92
Will allow_		34	85	- 20	147 19	69 51	11	42	80	27 0	160 6	96 4		. 8		5	25	
Mill not allow	0	, 6	. 8	5	19	†1	U	•	•	v	. 0	•	•	v		•		

Note:

O/C - Owner/Cultivator
O/NC - Owner/Non-cultivator

Preferred Compensation Scheme for Right of Way, Table G.8.7

				Cama'	ig Dive	ersion									MAG	2				
Rem		O/NC		O/C		L/SC		CT	Sub-to	isk		ONC		O/C		L/SC		CI	Sub-t	otal
No. of Respondents		8		40		93		25		166		11		44		84		27		166
Rank	İşt	2nd	1st	2nd	Isl	2nd	1st	200	1 st	2nd	1st	2nd	1şt	2nd	1st	2nd	1st	2nd	ist	2nd
Small Scale																				
xemption from payment of ISF	0	0	5	2	13	8	. 0	0	18	10	0	0	6 5	5 6	10 7	7	0	0	16	12
Imployment in dam construction Medium Scale	0	. 0	2	5	8	13	0	0	10	18	0	0	5	6	7	10	0	0	12	16
exemption from payment of ISF	0	٥	7	11	32	15	0	0	39	26	0	. 0	18	3	33	9	0	D	51	- 12
Employment in dam construction	ŏ	ŏ	11	7	15	29	ŏ	ŏ		36	ŏ	ŏ.	4	17	9	33	õ	. ō	13	50
arge Scale	•	•	•	•			·	•	•		•	•	•	• • •	-					
Exemption from payment of ISF	0	Ð	8	. 2	17	5	0	0	25	7	0	0	6	3	10	5	0	0	16	8
imployment in darn construction	ō	ō	2	8	5	17		0	7	25	0	0	6	3 5	10 5	10	0	0	8	15
Caretaker	•	_		_	_															
xemption from payment of ISF	0	0	0	0	0	. 0	19	- 6	19	6	0	0	0	0	0	0	19	8	19	. 8 19
mployment in dam construction	0	0	0	0	0	0.	6	16	6	16	D	0	0	0	0	0	8	19	8	19
Owner/Non-cultivator																				
xemption from payment of ISF	6	2	0	0	0	0	0	0	6	2	4	6 5	0	0	0	Ç G	0	0	4	6
Employment in dam construction	2	5	0	0	. 0	0	0	. 0	2	5	6	5	0	0	0	G	0	0	- 6	5
cetal								:			٠							:		
Exemption from payment of ISF	6	2	20	15	65	28	19	6	107	51	4	6	30	11	53	21	19	8	106	46
Employment in dam construction	2	5	15	20	28	59	6	16	51	100	6	5	12	28	21	53	. 8	19	47	105
. · · · · · · · · · · · · · · · · · · ·	8	7	35	35	90	87	25	22	158	151	10	11	42	39	74	74	27	27	153	151
lole:	•	•					-•													

O/C - Owner/Cultivator
O/NC - Owner/Non-cultivator
U/SC - Lessee/Sharecropper
C1 - Caretaker

Table G.8.8 Compensation Options for Affected Families in Construction of Dam Reservoir, Camalig Diversion and Dam No.2 Lowland Model Project Areas

				Cany	arg D	ivers	ioo.									<u>-</u> -						<u>(Unit</u> // 2		11.	Ç S BO	70.00	24			
lte m		ONC			O.C	14.5		ÚSC			CF			Sido- lotal			O-N	c -		o-c			vsc		1	ĈT.			Sub-	
No of Respondents					40			93			25	-		166		-	11			44			84			27			188	
Rank	14	2nd	3rd	151	2 d	3rd	151	2 <u>nd</u>	3rg	151	216	311	1st	2nd	3rd	15	2nd	3/4	191	2nd	Уđ	15(2nd	34	151	2nd	yd	151	2nd	3.4
Small Scale																														
Geverament correpensation	٥	0	0	2	2	3	11	2	7	0	0	0	13	4	10	Q	Q	•	7	4	2	10	8	2	0	0	0	17	12	4
Resettiement	0	0	0	3	0	0	5	7	4	0	0	0		7	4	0	Q	•	2	4	6	7	7	- 1	0	Ð	0	9	11	7
Priority employment during construction	٥	D	Ð	1	3	3	3	9	8	0	0	0	4	- 12	11	0	0	0	- 4	5	4	3	2	11	0	0	0	7	7	15
Utilization of reserved water for inland fishery	. 0	C	•	1	•	0	3	2	1	C	0	Q	4	3	1	0	9	0	0	0	1	6	3	1	0	0	0	1	1	2
Vediam Scale																														
Government convoensation	C	Ð	0	8	5	4	30	11	6	0	0		33	16	10	0	٥	0	12	5	4	30	7	5	0	0	0	42	12	9
Resettement	0	•	0	3 .	. 5	6	9	18	12	G	¢	0	12	53	18	0	0	0	் 4	8	8	6	24	9	0	0	0	10	32	17
Priority employment during construction	9	0	0	5	- 6		9	12	22	Ø	0	0	14	18	30	0	0	0	- 5		7	6	10	25	0	0	Ð	11	18	32
Utilization of reserved water for inland fishery	. 0	Q	0	2	2	0	0	5	5	0	Ð	0	2	7	5	0	0	•	0	1	1	0	0	- 1	0	0	0	0	1	2
Large Scale																														
Gevernment compensation	0	C	ò	7	•	2	10	3	8	0	o	ð	17	4	10	0	D	0		В	2	Ł	5	8	0	0	ø	9	11	
Resultiement	Ò	Ċ	Ď	0	- 6	. 3	6	à	4	ō	ō	ō	6	14	j	Ċ	Đ	Ó	4	1	3	6	5	5	ō	ō	ő	10	6	ě
Priority employment during construction	Ò	0	ō	3	. 5	5	4	9	8	ō	ō	ō	7	11	13	Ď		Ó	3	. 2	3	. 6	8	5	ō	D :	õ	9	10	
Univation of reserved water for inland fishery	ŧ	Đ	ā	Ð	· 1	ō	2	2	1	Ð	ō	Ď	2	3	1	Ď		Ó	- 1	Ð	Ď	ō	1	3	ō	Ď	Ď	1	1	. 3
Caretaker		•	•					•									-					•			•	•	•			•
Government compensation	. 0	- 3	a	0	Ó	0	0	0	0	15	7	3	16	7	3	. 0	6	D		0	Ð	Đ	0	D	10	13	2	10	13	. 2
Resettement	. 0	ā	ō	ā	ō	Ď	ē	ō	ō	4	9	8	4	9	à	ō	ō	ō	Ð	· ō	ē	ō	ō	ō	5	10	9	5	10	9
Priority employment during construction	ō	õ	ō	ō	0	á	ā	ō	ō	6	ā	ğ	В	8	9	ō	ŏ	0	. 0	ō	ě	ă	ō	Ď	10	2	13	10	2	- 13
Utilization of reserved water for Inland fishery	. 0	ō	ō	ō	ā	ā	õ	Ċ	ō	i	1	2	ī	1	2	ō	ŏ	ō	ō	ō	ō	ā	ō	Ď	ø	1	ō	0	1	0
Owner Nan-outlivistor			-					-							-		_				-	-		-	-		-	-		-
Severament compensation	. 4	4	0	0	. 0	a	ō	a	đ	ō	0	٥	4	4	0	. 3	3	3	0	Ð	٥	٥	Ð	0	0	0	٥	3	3	3
Resettement	2	4	2	ō	ō	ā	ō	ā	ā	ō	ō	ò	2	4	2	. 4	3	2	ō	. 0	ō	ō	ō	õ	ŏ	ō	ŏ	4	3	2
Educity employment during denstruction	. 2	a	5	0	ā	ā	ā	ā	a	Ġ	ā	ò	2	a	Š	3	3	- 4	- 0	ē	ā	ō	ā	ā	ā	ā	ō	3	3	- 4
Utilization of reserved water for intend fishery	0	0	1	0	0	0	0	ŏ	0	0	Ö	0	ō	0	1	ō	ō	0	0	0	ō	ō	0	ō	ŏ	ō	0	ò	Ö	Ô
Iolai																														
Government compensation	. 4	4	0	18	8	g	51	16	21	16	7	3	89	35	33	3	3	3	20	15	A	48	20	13	10	13	,	91	51	26
Resettiement	,	ä	ź	6	11	ğ	20	33	20		Ġ	š	32	57	39	ĭ	3	7	10	13	17	19	36	15	- 5	13	è	38	62	43
Priority employment during construction	,	ò	ŝ	9	ii	16	16	30	38	6	Ā	Š	33	49	68	1	,	- 2	12	15	14	15	20	41	10	,	13	40	40	72
Utilization of reserved water of inland fishery	ō	ŏ	1	3	4	ō	5	9	7	ĭ	1	Ş	9	14	10	ő	ŏ	ō	1	í	2	ï	2	5	0	ì	Ö	2	4	,,
				34	-14				<u></u> .					155										<u>_</u>				161		

Table G.8.9 Assistance to Affected Families, Camalig Diversion and Dam No.2

Lowland 1	1100	161															<u> </u>						Unit	: No	of R	espor	deni	5}			
						i g C	vers						~~~									DAM									
llon		. 1	ONC			о с			USC			CT			SUD- Fotal			OWG			O/C			L/SC			CT			Sub- Total	
No. of Respondents			8	<u>. </u>		40			93			25			156			11			44			84			27			166	
Rank	1	st :	2 vd	3rd	151	2-10	3.12	15	2:10	3-1	tst	24	3rd	151	2 d	3rd	1st	214	3/d	151	2:1	3-5	151	2nd	310	1st	2nd	3×d	151	2nd	<u> 34</u>
Small Scare																															
Employment opportunities		£	Ð	0	2	1	4	2	5	11	O	D	Ð	4	6	15	a		0	2		Ś	2	3	8	ė		0	9	,	33
Operation and maintenance of infoation system		ō	ā	ō	2	3	1		Ē	4	ā	0	ā	13		5	ă	ň	ō	3	6	ā	ż	11	5	ñ	ñ	ñ	. ,	17	- 7
Management of Cooperation or IA		ō	õ	ŏ	3	ž	i	3	10	è	ā	ā	ō	Ř	. 12	ž	ŏ	ň	ŏ	6	š	3	;	- 5	ă	ñ	ő	ŏ	13		
Provision for gardey land and housing lots		ō	ñ	ñ	ñ	ī	ė	Ř	ň	- 6	ň	ă	ň	, k	•	ė		ň	Ã	- š	ň	ñ	,	Ð	ă	ñ	ō	ň		· ă	
Medium Scale		_	•	•	_	-	-	-	•	_	-		٠	•		-	•	•	•			•	•	_	•	•	•	•	•	-	
Employment opportunities		٥	0	ò	` 7	a	ó		10	29	ň	a	۸	Á	19	31		٨	۵		1	16	10	. •	25	n	٨	٨	18	10	3
Operation and maintenance of irrigation system		ō	ō	ō	7	6	•	13	29	- 5	ō	ā	ō	20	35	8	ň	ň	ñ	5	13	3	15	15	Ġ	ñ	Ď	ň	20	28	
Management of Cooperation or IA		ō	ō	ō	3	ā	8	29	8	9	ŏ	ō	ŏ	32	12	17	Ď	ŏ	ň	Ä	5	7	14	16	9	ō	ŏ	Ď	20	21	3
Provision for pacify land and housing lots		ō	ō	ū	· 2	i	ŏ	٠,	ă	ž	ō	ā	ā	. 7	ī	`2	ě		ŏ	ă	3	6	٠,	.0	ā	ŏ	õ	ñ	- 6	- 2	
Large Scale		-	-	-	-	_	•	٠	•	_	•	- 7	•		-	-	•	•	•	•	•	•	•	-	-	•	•	٠	•	•	
Employment opportunities		0	0	Ð	2	3	4	2	,	13	0	٥	0	4	5	17	. 6	٨	O	3	2	,	5	3	10	-6	•	•	8	5	1.
Operation and maintenance of intention system		ō	ē	ē	3	6	i	7	11	3	ō	ŏ	ō	10	17	- 4		ő.	ň	i	5	-	Ę	12	•	ă	ě	ā	ă	15	
Management of Cooperation or IA		ō	ō	ā	4	2	à	Á	•	3	ā	ā	ã	12	- 11			ō	ō	-		ĭ	ā	1	7	ā	ā	ă	11	6	
Provision for paddy land and housing tots	* .	Ô	ō	ă	1	0	Ď	ž	0	1	a	6	ā			•	ň	ň	6	1	ň	è	5	ī	6	ā	ă	ă		1	
Carelaker		-	•	•	-	-	٠	•		-	-	•	•	•	-		•	٠	•		•	-	•	•		٠.	•	٠	-		
Employment apportunities		Ð	O	٥	Ð	o.	ò	a	۵	٥	5		12	6	13	15	٨	n.	'n	6	٨	n	n		6	۰	4	11	q		- 1
Operation and maintenance of injustion system		Ð	ō	ā	ō	ō	ō	ā	ā	ō	11	14	ō	16	17	ă		ŏ	ō	ō	ō	ō	ň	ō	ŏ	7	13	6	7	13	
Management of Cooperation or IA		ě	ō	ā	ō	ā	ā	ă	ō	ō	- 0	5	10	11	5	15	ŏ	ŏ	ŏ	ŏ	ō	ō	ň	ă	ã	ė	ï	ï	à	7	
Provision for poddy land and housing tots		0	ō	ō	ō	ā	ō	ā	ŏ	ō	,	•	Č	2	1	ã	Ď	ŏ	ŏ	ō	6	ň	ň	ā	ă	- 1	,	•	- 1	ż	
Owner Non-sultivator		-	•	٠	-	-	•	•	٠	•	•	,	•	-	•	•	٠	·	۰	•	•	٠	•	٠	•	•	•	•		•	
Employment opportunities		1	5	3	٥	a		0	4	6	۵	a	•	٥	a	. 0	•	•	4	٨	a	•	٨	0		6	۸	۸	3	,	
Operation and maintenance of inigotion system		5	3	ā	ō	ā	ā	ň	ň	ō	ō	ă	Ď	ň	ň	ŏ	Ř	•	- 1	ň	ě	ň	Ň	õ	ň	ŏ	ň	ň		- 2	
Management of Cooperation or IA		2	ā	5	ŏ	ā	ă	ŏ	· a	ŏ	ŏ	ŏ	ŏ	-	5	3		3	À	Ď	ă	ň	Ö	ō	ō	ă	ě	ă	,	. 2	
Provision for padity land and housing luts		ō	ā	ō	ō	ā	ŏ	ō	õ	ă	ō	ŏ	ň	÷	3	ň	ē	- ;	· 6	ិ	ň	ň	ă	ō	ŏ	ŏ	ŏ	ě	ā	i	
		Ī	•	Ī		Ī	-	٠	٠	Ī	Ī	٠	Ĭ	•	•	•	•	•	-	Ī	•	٠	۰	•	•	*	٠	٠	•	•	
Iciai																					7	:									
Employment opportunities		1	5	3	11	13	10	5	17	53	5	. 8	12	29	46	83	3	2	4	13		12	22	15	39	ġ	4	11	47	28	7
Operation and maintenance of intigration system		5	3	g	12	15	5	31	46	12	11	14	ō	54	75	17	- 6	ā	1	51	21		24	39	16	7	13	6	48	77	
Management of Cooperation or IA		2	a	5	10	. 8	13	40	27	18	9	5	10	59	40	41		ż	14	14	11	11	30	24	20	g	į,	į,	55	44	4.
Provision for payddy land and housing tots		0	0	Ó	3	2	0	12	0	3	. 2	1	ō	17	3	. 3	ō	ĩ	ò	5	2	ò	7	1	ā	ŧ	2	1	13	6	
				-									-			- 7	_	-	-	-	_	-	-	-	-	-		-		-	

O/C - Owner/Cultivator O/NO - Owner/Non-cultivator L/SC - Cessee/Sharecropper Table G.8.10 Acceptability to Rotation of Irrigation Water Scheme During Dry Season, Camalig Diversion and Dam No.2 Lowland Model Project Areas

		Carnalig:	Diversion					Dan :	}						dand Tota		condun's	L
Rem	ONC	G/C	L/SC	CT	Sub- total	%	ONC	O/C	USC	ĊТ	Sub- total	*	ONC	C/C	Uşc	CT	Total	%
No. of Respondents	8	4 0	93	25	166		11	44	84	27	166		19	84	177	52	332	
Smal Scale																		
Agree	0	7	18	0	25	83	6	9	19	0	34	87	8	16	37	0	59	86
Disagree	٥	0	5	0	5	17	2	1	2	0	5	13	2	1	7	0	10	14
Medium Scale																		
Agree	0	17	39	0	56	84	0	17	36	0	53	85	O.	34	75	. 0	109	. 84
Disagree	0	3	8	0	51	16	0	3	6	0	9	15	0	6	14	0	20	16
Large Scale																		
Agree	٥	1	16	0	23	70	0	10	17	0	27	87	0	17	33	O	50	78
Disagree	0	3	7	0	10	30	0	0	4	. 0	4	13	. 0	3	11	0	14	22
Caretaker																		
Agree	. 0	Q	. 0	22	22	88	0	0	0	24	24	96	. 0	0	0	45	46	92
Disagrae	0	0	. 0	3	3	12	. 0	0	0	. 1	1	4	0	0	. 0	4	4	8
Owner/Non-cultivator																		
Agree	5	0	. 0	. 0	5 '	63	-0	. 0	.0	0	0		5	0	: 0	. 0	5	63
Disagree	3	0	. 0	0	Э	38	- 0	0	0	0	. 0	•	3	0	0	0	3	38
<u>Iotal</u>			-															
Agree	5	31	73	22	131	. 79	- 6	35 4	72	24	138	83	- 11	67	145	46	269	81
Disagree	3	6	20	3	32	19	2	4	12	1	19	11	5	10	32	4	51	15
No response	0	3	0	0	3	2	3	4	0	. 2	9	5	. 3	. ,	0	2	12	4

Table G.8.11 Active Participation in the Operation and Maintenance of Canal, Camalig

		Сапабо	Diversion					Dam :	2						land Tota		pondents	
Item	ONC	O/C	L/SC	Cf	Sub- total	*	ONC	O/C	USC	CT	Sub- total	*	ONC	O/C	L/SC	CT	Total	%
No. of Respondents	8	40	93	25	166		- 11	44	84	27	166		19	84	177	52	332	
Small Scale									•									
Willing	0	6	21	; c	27	90	11	. 15	21	0	4.3	100	11	17	42	0	70	96
Not writing	0	1	2	- Q	3	10	0	0	0	0	0		0		2	: 0	3	- 4
<u>Vedium Scale</u>							+ +			. :								
Nilling	. 0	20	` 42	. 0	62	97	0	22	42	. 0	. 64	100	o	- 42	84	. 0	126	98
Not willing	. 0	0	2	Ö	2	3	0	0	0	. 0	0		0	Ö	2	. 0	2	2
arge Scale	•																	
Milling	o,	- 10		. 0	30	91	0	11	21	. 0	32	100	. 0	- 21	41	0	62	95
Not willing	٥	Q	3	C	3	9	0	0	0	. 0	. 0		. 0	0	3	0	3	5
are/aker	_						_	_					_	_				
Willing	0	0	0	25	25	100	0	0	0	27	27	100	. 0	. 0	. 0	52	52	100
Not willing	. 0	e	0	0	o.	-	0	0	Q	Ó	. 0	-	0	0	0	0	0	
Owner/Non-cultivator						**											_	٠.
Willing	. 6		0	ň	6	75 25	Q	0	ō	. 0	. 0	•	5 2		0	0		75 25
Not willing		Q	v	· · · ·		25		v	Q	. 0	v	•	- 2	Ų	·		. 3	20
															:			
[%]																		
Nithing	. 6	36	83	25	150	90	- 11	44	84	27	166	100	17	60	167	52	. 316	95
vot willing	ž	~	7	- 7	10	-6	ö	0	~				2	. ~	7	. 7	10	3
ran mining	•		•	•	10	-			•	•	•		•	•	,			•
No response	. 0		. 3	. 0	6		0	. 0	0	0	0		. 0	3	: 3	0		

O/C - Owner/Oditivator
O/NC - Owner/Non-cutivator
L/SC - Lessee/Sharecroppor
CT - Caretaker

Table G.8.12 Membership of Farmers from Other Barangays in Irrigators Associations, Camalig Diversion and Dam No.2 Lowland Model Project Areas

			Diversion				7.4 1.01	Dam :							Unit: Nota		pondents	1
Item	O/NC	O/C	L/SC	CT	Sub- lotal	%	ONC	O/C	USC	CT	Sub- total	%	O/NC	0/¢	L/SC	CŦ	Total	%
No. of Respondents	8	40	93	25	156		- 31	44	84	27	165		19	84	177	52	332	
Small Scale																		
Willing	0	7	23	0	30	100	0	10	20	9	30	97	0	17	43	0	60	98
Not willing	0	0	0	0	0	C	0,	0	1	0	1	3	0	0	1	0	1	2
Medium Scale																		
Willing	. 0	20	47	0	67	100	0	18	42	0	60	97	0	38	89	0	127	98
Not willing	0	0	0	0	0	0	0	2	0	. 0	2 -	3	0	2	0	0	2	2
Large Scale							•											
Willing	. 0	10	23	0	33	100	0	10	21	. 0	31	100	. 0	20	44	. 0	64	100
Not willing	0	0	. 0	0	0	. 0	0	0	0	. 0	0	-	0	. 0	0	0	0	•
Caretaker																		
Willing	0	0	. 0	25	25	100	. 8	0	0	. 24	32	97	8	0	0	49	57	98
Not willing	0	0	0	. 0	0	0	0	Q.	Đ	1	1	3	0	0	0	1	. 1	2
Owner Non-cultivator																		
Willing	8	0	0	0	8	100	Q	Q.	. 0	0	0		8	Q	0	0	8	100
Not willing	0	0	0	0	0	0	. 0	0	0	٥	O	-	0	0	0	0	0	•
Iotal																		•
Willing	0	37	93	25	155	93	. 0	38	83	24	145	89	в	75	176	49	308	93
Not withing	Ŏ	0	Õ	Ö	0		jŏ	2	1	1	1	1	Ö	2	1	1	4	1
No response	8	3	. 0	0	. 11	7	Ìì	4	0	2	17	10	- 11	. ,	o	2	20	6

Table G.8.13 Management and Maintenance of the Irrigation System by Farmers from Other Barangays, Camalig Diversion and Dam No.2

	Lo	wla	nd N	lodel	Pro	ect A	reas									(Unit : N	lo. of Res	pondents	ŀ
			Camalig	Diversion					Dam	2						land To			
llom	0/	NC	o/c	LISC	CT	Sub- total	%	ONC	O/C	L/SC	CT	Sub-	%	ONC	O/C	USC	CT	Total	%
No. of Respondents		_ 8	40	93	25	156		11	44	84	27	166		19	84	177	52	332	
Small Scale																			
Willing		Q	7	21	. 0	28	93	. 0	11	19	0	30	94	0	18	40	0	58	94
Not willing		0	- 0	2	. 0		7	0	. 0	2	0	2	6	0	0	4	Ö	4	. 6
Medium Scale																	•		
Willing		0	50	46	0	66	99	0	- 20	41	0	61	95	0	40	87	. 0	127	97
Not willing		0	0	1	. 0	. 1	\$	0	2	. 1	0	3	5	. 0	2	2	0	. 4	3
Larga Scale																			
Willing		0	10	21	0	31	94	0	11	20	0	31	97	. 0	21	- 41	0	62	95
Not wiffing		0	Q	2	- 0	2	6	0	0	•	0	1	3	. 0	0	3	0	3	5
Caretakes																			
Willing		C	0	0	22	22	88	0	0	0	23	23	85	0	0	. 0	45	45	. 87
Not willing		Q	. 0	0	3	3	12	. 0	0	. 0	4	4	15	0	0		7	- 7	13
Owner Non-cultivator				1															
Willing		8	0	0	0		100	8	0	٥	0	. 8	100	16	0	. 0	0	16	100
Not willing		0	.0	. 0	0	. 0	• .	o.	. 0	0	. 0	0		0	Ó	0	0	0	
Iotal											•		. :						
Willing		A	37	88	22	155	9.3	R	42	80	23	153	92	16	79	168	45	308	93
Not willing		Ö	Ċ	. 5	3		5	ŏ	2	~	74	10	6	ŏ	2		7	18	5
No response		0	. з	0	0	3	2	3	. 0	. 0	٥	3	2	3	3	0	. 0		2
Note:																<u>~</u>			

O/C - Owner/Cultivator
O/NC - Owner/Non-cultivator
L/SC - Lessoo/Sharecropper
CT - Caretakar

Table G.8.14 Membership in Irrigators Associations and Irrigators Group, Camalig Diversion and Dam No.2 Lowland Model Project Areas

		Cenai									n 2							cw'and				
ne m	ONC	Ovc	US	C	Çř	Sub- fulai	×	_	DNC	O/C	L/SC	Ċ	CT 5	Sub- total	*	ONC	0/0	I/S	¢	CT	Fota!	*
No of Respondents	8		9	93	25	166			11	44	8	1	27	166		19		41	11	52	332	
Small Scale	_			_									a			,			15	0	- 29	. 3
Landowners	0		2	7	9				0		. 1		•	17	47 3	,		•	1	ŏ	5	3
Owner cuttivators	0		0	1	9		. 3 6		. 0			0 5	0	6	17			1	8	ă	10	1
Owner-cultivalors & lessees/sharecropper	ų.		1	1	. 9				a	1		4	ŏ	. 5	14	ó		3	13	ŏ	16	2
Owner and lessees share cropper	v		2	9	Ò				. 0	ď		3 :	ŏ	3	17	ŏ		ž	10	Ä	12	î
Actual cultivators Inigation operation and maintenance	0		2	6	0							3		٠ :	11	ă		1	3	ă	1.4	•
personnel including caretakers	v		U	Ů	•	•	-		·	,		•	٠	•	•••	•		•	•	•	-	
MeGen Scale Landowners	0		7	8	.0	15	21		Q.	10		3	0	23	34	0		17	21	a ·	38	2
Owner-cultivators	ň		Ď	9	ď				ă			4	ŏ	- 7	10	ñ		3	13	ā	16	ī
Owner-cultivators & lessess/sharecropper	. 0		ě.	3	ď				ŏ				ŏ	15	22	· 3		8	14	č	25	•
Owner and lessessisharecropper	. 0		6	14	Š				ŏ	- 3			ŏ	19	28	ă		š	31	ŏ.	39	ž
Actual cultivators	Ď			11	ď				ŏ			2	ŏ	2	3	ŏ		4	13	0	17	1
irrigation operation and maintenance personnel including caretakers	ō		6	ā	d				ō	ì		1	ō	ž	3	ā		7	1	0	. 8	٠
Large Scale																						
Landowners	Ó		э :	4	•	1	22		9		. 1	•	0	17	50	0	1	9	15	Q	24	- 3
Owner-cultivalors	. 0	-	1	2	Č				ō	(•	0	1	3	0		1	3	0	4	
Owner-cultivators & lessees/sharecopper	. 0		1	ī			. 6		0		!	2	0	4	12	0	l.	3	3	0	6	
Owner and lessees/sharecropper	. 0		3	10		13	41		0		;	3 .	0	6	18	. 0		6	13	. 0	19	. 2
Actual cultivators	0		1	6	0		22		0	. (4 -	0	4	12	0		1	10	0	11	1
firigation operation and maintenance personnel including carefakers)	O	0	. 0	•	٠.		0	•		\$. 0	2	. 6	a	1	C	2	0	2	
Carstaker									_				_	_		_			_			
Lankwhers	0		0	0	9				0	, . .		0	- 8		31	0	!	0	0	13	17	3
Owner-cultivators	0		0	0					0	1		9	2	2	8 31	0		0	6	3 11	11	2
Owner-cultivators & lessees/sharecropper	0		0	0	3			- 4	0	•		0	B 5	8	31 19	u G		0	0	13	13	2
Owner and lessees/sharecropper	a		0	0					0	9		0 ;	1	,	4	ă		ŏ	ŏ	8		1
Actual curevators	0		0	0					Q Q	(a	2	2	à	o o		ŏ	ñ	2	2	•
Irrigation operation and maintenance personnel including caretakers	v	,	U	v	•	•			v	,	,	u	•	-	ø			•	٠.	•	•	
OwserNon-cultivator																			٠.,			
Lawlowners			٥.	a			63		. 3		,	a	Û	3	38	8		0	0	0	8	5
Owner cutivators	i		ŏ	ă	è		13		. 3			ā	ā	3	38	4		ō i	ė.	Ð	1 4	2
Owner-cultivalors & lessees/sharecropper	ė		ō	٠.	Č				. 2			ō	Ċ	2	25	. 2		0	Ó	٥	2	1
Owner and lessees/sharecropper	i		õ	ō			13		. 0	-		0	0	0	-	1		0	0	Ð	1	
Actual cultivalors	1		ē	•			13		0	- ()	Ġ.	0	0	•	1		0	0	0	. 1	:
Irrigation operation and maintenance personnel including caretakers	0	· .	0	0	•	•			0			0	0	0	-	Ð		0	0	0	. 0	•
																				:	-	
Ictal Landowners			2 .	19		4	26		3	. 2	, ,	5	. 8	68	40	-11		34	54	17	113	. 3
Dandowners Owner-cultivators	7		1	12		1			3			5 .	2	14	**	,		5	17	3	29	
Owner-cultivations & lessees/sharecropper			B	5					2				- å	35	20	í		13	23	11	49	1
Owner and lessess/sharecropper			1	33	i	5.			Ó			4	5	35	20	i		7	57	13	88	2
Actual out tivaturs			7	24	. 3	34			ŏ			9	ĭ	10	- 6	i		7	33	8	49	: 1
inigation operation and maintenance personnel including ceretakers	ď		6	ô	Ġ				ŏ			6	, 2	10	6	ò		8	6	5	16	

Table G.8.15 Payment of Irrigation Service Fee and Amortization Cost of Irrigation Facility, Camalig Diversion and Dam No.2 Lowland Model Project Areas

Project											·				<u>{Unit : N</u>		pondents	<u>}</u>
			Diversion					Oa/					-		Mand Tol.			
Neme	OWC	oc	L/SC	C£	Sub- lota!	%	ONC	OVC	USC	CL	Sub⊱. 1olar	×	OMC	O/C	USC	ÇT	Total	*
No of Respondents	8	40	93	2			- 11	44	54	5,	166		19	84	177	52	332	
Small Scale																_		
Landowners	0	3	4	•		24	C	3	12	Ð	15	41	0	6	16	0	52	33
Owner-cultivators	0	0		(•	6		3	. 0	5	14	. 0	. 2	3	. 0	5 24	36
Owner cultivators & lessees/sharecropper	0	2		- (48	. 0	3	7	0	10	27	0	- 5	19	. 0	24	12
Owner and lessees/sharecropper	. 0	1	3			14	Q	1	3	0	4	11	0	2	6	0		11
Actual cultivators	0	1	•	. (•	14	C	1	. 2	0	3	Ð	0	2	•	0		11
Medum Scale																		
Landowners	. 0	. 9				22	0	8	:6	O	24	35	Ð	17	22	. 0	39	29
Owner-cultivators	0	. 0		•		4	D	4	3	0	7	10	0	- 4	. 6	0	10	7
Owner-cultivators & lessees/share-cropper	0	1		•		19	. 0	6	15	0	21	30	0	7	57	. 0	34	25
Owner and lessees share proporer	0	3	13	•		24	0	,	11	0	12	17	. 0	- 4	24	0	28	21
Actual cultivators	0	5	15	- 1	20	30	0	1	1 4	9	. 5	7	0	6	19	0	25	18
Large Scale																		
Landowners	0	4	. 6	1	10	29	0	. 6	- 51	0	17	50	0	10		0	27	49
Owner-cultivators	0	1	Ð)	3	0	- 1	1.4	0	5	15	0	2		Q	. 6	9
Owner-cultivators & lossees/sharecropper	ō	. 3		•) 11	32	. 0	5	- 5	0	7	21	0	5	13	0	18	26
Owner and lessees/sharecropper	Ö	. 0				24	. 0	•	2	0	3	9	0	1	10	0	11	. 16
Actual cultivators	. 0	2	2		4	12	e	e	2	0	2	6	. 0	2	4	Q	6	9
Caretaker							-											
Landowners		0	0		g g	32	0	9	6	8	9	30	. 0	0	G	17	17	31
Owner-cultivators	ō	ā	ŏ		1 1	- 4	. 0	Õ	, o	3	3	. 11	0	0	0	. 4	4	7
Owner-cultivators & lessees/sharecropper	ō	. 0	ō	1	7	25	ē	ō	ō	12	12	44	C	0	g	19	19	35
Owner and lessees share cropper	ō	ā	ŏ		4	14	õ	Ğ	. 0	2	. 2	7	· c	. 0	•	6	6	11
Aduat cultivators	ā		ň		, ,	25	ē	0		ž	2	,	0	0	0	9		16
Owner-Non-cultivalor	•	•	•				•	-	_									
Landowners		a			D 5	63	3	. 0		a	3	5C	8	Û	0	Ó	á	62
Owner-cultivators		ă				13	. 6	ň	. 6		0		1	Ō	Đ	٥	1	8
Owner-cultivators & lessees/sharecrosper	;				Ď. ż	25	1		ă	ā	Ť	20	3	ō	ē	. 0	3	23
Owner and lessees/sharecropper	ň	· ă						ŏ		ŏ			ő	Õ	. 0	ō	ō	•
Actual out trators	č	Ä	Sec. 5				1		ī	ŏ	1	20	1	0	ē	•	1	ě
Action contracts		•						·		•	•					·	: .	-
Iolat									1									
Landowners	5	16	. 16		9 46	28	3	17	33	. 6	67	33	8	33		17	. 113	33
Owner cultivators	ī	1	3		1 6	4	ō	7		3	20	12	. 1	8		4	26	
Owner-cultivators & lessees/sharecropper	2	. 6	3.2		1 47	28	1	91	- 27	12	51	30	3	17		19	9-8	5.8
Owner and lessees/sharecropper	õ	4	24		92	19	Đ	3	16	2	21	12	0	7		. 6	53	16
Adual cuttivaturs	ō		20	1		21	1	2		2	13	8	1	10	28	9	48	14
							5	40	100	27	172		13	75	195	55	338	
Note.		35	95	21	B 166		>	40	100	21	172		13	13	133	33	3.70	

O/C - Owner/Cultivator
O-NC - Owner/Non-cultivator
L/SC - Lessee/Sharecropper
CI - Caretaler

Table G.8.16 Concept of Lessees/Share Croppers/Carctakers as Members of Irrigators Service Associations, Camalig Diversion and Dam No.2 Lowland Model Project Areas

		Cantali	Diversi	i- Alt					Dan	2					Lew	and Total	a, or Prop		
hen	010	CVC	L/S		CT	Sub- tivial	4	OSC	(AC	USC	CT	\$ub.	-	ONC	O.C.	L/SC	CT	Total	4
Se of Respendents			0	93	25	line			- 64	E4	21	166		19	14	177	52	332	
inadi Scals																			
Loceptuble				21	0	31	94	0	10	19	0	29	91	۰	20	40	0	50	9
for acceptable		0	0	2	0	2	6	G	1	2	0	3	9	0	1	4	0	5	
Reason for non-acceptability		_		_	_										_		_		
nd pranzesurus catrapilistà	•	• ,	ß	•	0	!		0	0		Q	,		Q	Q	2	· ·	2	
not responsible			0			1		0	l o		C	2		•	. !	2	0	3	
no financial capability	1	0	0	9	U	B		· ·	0	0	U	ø		0	2	O	6	0	
स्यानम् स्थाद								_	44								_		
Weeplahle		9 0		40	0	65	97	0	18	36	0	54 16	55 16	. 0	37	12	8	119	1
fot acceptable	,	0	1	,	Đ	2	3	U	•	6	. 0	10	řo.	. 0	5	7	0	12	
Reson for non-acceptability						_		_		_								_	
no management capability		g.	•	•	Q n	2		e e	. 0	Ş	ě	5		•	•	- 6	9		
not responsible		0	Q .	•	Ņ	. 0		0	. 3	. !	0			0		ı	9	•	
no Grancial capability		V	ο.	0	U	. 0		. 0	1	0	0	1		6	ı	. 0	0	E	
was Scale		_					_												
(cceptable		0	9	31	0	30 3	. 91	. 0	8	18	0	26 6	. 81	9 0	17	39	0	56	
or en epiable		D	,	2	0	,	y	Ų	,	,	v	C	29	. 0	. •	5	0	9	
Reason for non-acceptability								_	-									_	
no management can obvidy		8	1	•		. ?			- 3	3	. 6			9	•		v		
Bill responsible			0	6	0	1		0	0	9	0			0	·		v	į.	
no financial capability	,	0	v	·	v	U		v	ų	0	U	0		U	0		Q	0	
*tryd			_	_					0			27							
cceptaNe			0 0	v	24	24	96	. 0	. u	0	27 0	21	100	0	0	0	5 i	51	
и всерьиче			U	U	ı	,	•	v	. 0	U	U	o	•	9		U	,	,	
Reason for non-acceptability no micragement engability		٠	Đ	0	. 0	9		. 0	- 0	. 0	8			٠ ٥		0			
no mengement enganney			•	Ö	: V	9			ŏ	ŏ	0	9		ă	. 0	0		ð	
to financial canability			Ď	ŏ	,	Ÿ		ě	ő	å		4				ň	y	0	
w.bcr.Nac.cultivator	,	,	4	U				v	v	۰		v			٧	U			
rebings			0	0	0		190	10	0	. 6	0			18	0	0	0	14	
of accept title	í		۸.	ň	, i	à	190	. 10	ŏ	. ,	×		-	17	,			1\$ 1	
Reason for non-acceptability	`	•		•	v	•	•	•			٠	•	•		۰	v	•	,	
DO DATASERATE SANSTAINS		,	0	6	อ	Đ		D	ė	. 6	0	a		0	b	D	n	Ð	
not responsible			Ö	ŏ	Ö	Ď			ŏ	Č	ő	ĭ		ř	5	ŏ	ň	· ·	
no financial capability			6	ň	ñ	Ď				ŏ					ă	. 0	8	i	
on total a capacity	`	•	•	Ĭ	٠	•			•	٠	٠	٠		v	. •		•	v	
gai.																			
coeprable		3		8	24	65R	95	10	36	73	27	146	88		٥ı	126	51	265	•
ot acceptable	1	Ù	2	5	1	8	3	1		31	0	20	12	Đ	5	5.3	3	27	
Reason for non-accepitability																			
no management expubility			2	3	, D	3	63	٥	. 3	9	Ú	12	60	0	5	12	9	. 17	
not respects the			0	2	Ð	2	25	1	4	. 2	0	, 7	. 35	1			•	9	
no financial capability		•	0	D	l l		13	0	1	D-	0	- 1	s		1		1.1	2	

Table G.8.17 Participation in the Formation/Strengthening of Farmers Marketing Service Cooperative, Camalig Diversion and Dam No.2 Lowland Model Project Areas

	 				version		-				Dan								(Unit : N land Total	7. 01 1423	C-10-2103	
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hem	())	w.	O.	•	L/SC	C1	English Sillur	*		U. C	OC	USC	•		ub- total	*	OASC	O/C	LISC	CT.	Total	4
No of Respondents	 	1		40	93	25				11	44	. 8-		27	166		19	24	177	32	332	
guil Scale					1																	
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kalium Scale		•		•		•		-		•	•			٠.	•	•	4			•	•	
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o sevavise	5	0		0	. 0	0				ó	2	i	ì	٥	. ,	i	ň	2			j	
uge Scale				-										•	-		•		· ·	•	-	
'ting		0		9	22	0	33		;	. 0	10	21		0	31	93	0	19	43	. 0	62	
ot willing		0		1	- 1	0			,	0	. 0)	Q	0				i i	Q.	2	
la response		0		. 0	•	0) .		. 0				G	1	3	ē		ō	Ġ	1	
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or willing		0		Ó	0			i 4		Ð	0	(,	3	1	11	Č	. 0	ō	4		
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p tedoose		. 0		q	. 0	. 0	ſ	, ,		3	4	•	2	3	9	\$	3	4	Q.	2	9	

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OAC - Owner/Cultivalit OASC - Owner/Nobel-utilivalit E/SC - LessepSharev-upper

Table G.8.18 Utilization and Management of Post-Harvest Facilities, Camalig Diversion and Dam No.2 Lowland Model Project Areas

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Dem	TO S	¢	ovc (USC	CT 9	iub. sxal	*	ONC	C/C	USC	(T		b- i-taž	4	OSC	CHC	USC	et	1.45	4
No of Respondents		•	10	93	25	134			44	8.4		2)	166				(1)	52	332	
mall Scale																				
lecessity of facility																				
Aibratico 6ec																				
1) LSF collection		0	1	16	. 0	21	P.O		e e	, ,		0	17	53				٥		•
2) Mehi Purpese		0	0	,	9	. 7	21		b 1			O.	13	41						. 1
3) No response		0	3	0	. 0	3	9		0 () 1		0	2	6	. 1) 3	. 2	0	5	
geration for																				
1) LA & 3G receibers		0	,	12	9	25	76		0 10	14		0 .	24	75) 17	32	. 0	49	
2) general public		0	0	5	9	5	15	٠,	Ď (1 . 1		0	- 6	. 19) 1	10	. 0	11	
3) No response		0	3	0	9	3	9		a () 1		0	1	. 6) 3				
textium Scale																				
occusity of facility																				
Militation for													-							
LHSF collection		0	1.0	37	9	55	62		D 60	27		0	43	67		34	64	0	98	
2) Multi Porpose		Ď	3 .	10	. 0	12	16) 3			ŏ	18	. 28				õ		- 1
3) No response		ō	õ	ě	ā	ē						Ď	- 5	- 3		ڌ ١		ē		
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DIA & IG genters		0	18	30	Q.	56	64		0 14	33		0 :	47	73		32	. 2	. 0	103	
2) peneral public		ŏ	2	9		21	16		,			ŏ	14	22			. 18	Ď		
3) No tesponte		ŏ	ő	ó		.,			Ď . j			ŏ	'3	23	ì				3	
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mar Scale																				
ecessity of facility																				
tilization for:		_			_													_		
1) ISE collection		0	10	17	• 0	27	. 42		,	[+		ō.	19	59				D	40	3
2) Multi-Porpese		0	. 0	6	0	6	1#		,			0 .	9	28.				0		:
3) No response		0	0	0	0	0) I	. 3		0	4	13	- (, 1	,	0		
peration for																				
1) IA a IG members		0	9	15	0	24	73	•				0	23	72			28	•	47	1
2) general public		0		6	0	,	21		•			0	5	16			- 11	0	12	1
3) No response		O-	0	3	0	2	ŧ) I	3		0	4	IJ	(1	5	0	6	
anciatus.																				
Secondary of facility																				
frilization fine																				
1) ISE collection		0	. 0	D	20	20	20	- (. 0		15	15	. 56				35	35	
2) Multi-Purpose		0	. 0	Ð	. 5	5	20			0		11	it	- 41			. 0	16	16	
3) Na response		0	Ð	0	٥	G	٠.) (0	. 0		1	ı	4		0	9	1	1	
guration for																				
f) (A & 1G members		0	0		19	:9	76) (. 0		20	20	74	. (0	. 0	30	. 10	
2) general public		0	- 0	0	6	6	24		• •	. 0		5	5	19		0	0	11	11	1
3) No response		Ď	ō.	ě	ò	ă		i				ž	•	7	Ċ		e e	. 2	2	
North Non-Cultivator																		-		
ic estim of facility																			:	
Lilization for																				
t) (SF cidlection	-			q	0		100		0	. 0		٥	7	- 64	. 11	. 0	Ú	6	15	- 1
2) Multi Purpose		ō	ō.	ē	ā	. 0						ō	3	17	i		ō	ŏ	"	i
3) No response		ŏ	ŏ	ē	ă		-					š ·	ī	9	í		ŏ	ő	í	
boration for		•		•	•	•			•	•		•	•	,		•		•	•	
1) IA & PS members		7	0	e	0	. 1	· 86		f. 0	: 0		0	,	64	14	ı a	Ú	0	14	,
2) general public		i	ě	ě	ŏ		13					ě	3	27	- '7		ŏ	ŏ	- 7	- 3
3) На токуотно		Ö	ō	ă	ŏ		•		i . ŏ			ō	1	9	i	ŏ	ŏ	ŏ	ĭ	•
<u>del</u> croally of facility					•															
tilization for																		1 2.		
1) ISF collection		•	35	10	30	1.13	R.)	7				15	104	. 61	. 15		149	35	2 34	
2) Bloki Purzone		٥	2 '	2.3	5	30	16					ti .	9	33			53	16	3.4	
3) No response		٥.	3	0	. 0	· 3	2	i		5			11	7	1	7	5		14	
peration for																				
l) 14 & 1G members		7	34	71	19	132	79			60		90	52 i	73	. 14		101	39	252	
2) general public		t	3	20	6	30	16					5	33	. 30			39	11	6)	
3) No response		Ö	3	2	c	- 5				. 5		i	12	1	. 1	7	7	2	17	

Table G.8.19 Need for Post-Harvest Facilities, Camalig Diversion and Dam No.2 Lowland Model Project Areas

						•									(Unit: 1	in of Re	gendrati)	1
		Centili	Diversin					Cer							etarni Tori	N		
li em	TONE	Oζ	L/SC	(T	Seite Market	4	TONE	oc	LSC	TT 3	Sub- S-tal	*	CSC	· IXC	LSC	্বে	Total	4
No of Researching		40	y)	2				44	84	27	156		19	. [4	177	33	332	
Seuti Stais																		
Salar Dayer		•	13	•	6 LT	55	Ð		17	e	25	64	Ö	- 12	301	0	42	48
* archouse))	7		0 10	24	Ð	2	4	0	6	1.5	0	3	\$1	Ó	16	18
Exemôl	Ċ	,	14		Q 21	44	Ð	<u> </u>	5	ō.	á	21	á	10	19	Ó	29	13
Differs) a			0 0		0	0	. 6	C	•		a	٥	0	0	Q.	
Motiva Sale																-		
Safar Dryce		14			0 50	4.2	0	()	20	0	42	43	. 0	27	64	0	92	43
Warehouse) 5	19		0 24	20	•	6	- 11	G	17	16	0	· 11	,M3	0	41	19
Riccial	(()	33	•	0 41	37	0	11	24	G	36	39	0	24	57	0	82	38
Others) 0	. 0		D 0		₽	0	٥	0	•	*	a	. 0	0	0	٥	-
Legs X els																-		
Sofar Dryes		7	26		D 11	41	Ð.	7	15	0	. 22	42		14	31	0	45	41
Warehease					0 12	34	. 0	5	10	a	- 15	24	0	9	18 28	0	27	25
Ricepiól .		. 4	17		D . 21	38	0		Li	. 0	16	30	4	- 4	28	0	37	34
Others		•	0		0 0	-	0	0	. 0	9	¢		. 0	0	0		•	
Curides																		
Saler Dryc	•) 0	. 0	14		4.	0	0	•	1.8	16	50	9	0	. 0	34		42
Warehouse) g	. 0	10	¢ 10	2.2		. 0	0		6	17	a	0	n	16	16	20
Record) 0	0	19		42	0	0	. 0	:3	12	.13	q	0	- 0	34	31	. 38
Others) 0	0		0 0	-	: 0	. 0	. 0	0	¢		4	Ç	l)	٥	. 0	
Open State of the late																		
Salar Dryes		. 0	. 0	•	0 6	33 -	. 5	. 0	0	g	•	36	. 11	0	Ð		25	34
Warehouse		• 0	. 0		0 5	28	4	0	0	0	4	2.9	9	0	. 0			78
Recedit	7		. 0		0 7	,44)	5	. 0	. 0	0	5	16	42			٥	12	3.5
Others		y • 0	. 0	•	0 0	-	Đ	0	٥	. 0	. 0	•	0	a	Ð	0	. 0	•
I etal											-							
Side Drya		25		14		14	5	28	67	11	111	47	14	5.5	126	. 34	234	4,9
Warehouse	1	13	34	. 10	6 61	24	4	- 13	25	6	48 79	20	9	2.4	54	16	100	21
Riceral		122	64	19	9 (12	39	5	22	40	- 11	79	13	- 0	44	3164	31	191	36
Othas) a	. 0		0 0		٥	0	٥	. 0	0		0	0	. 0	٥		

Sic

O/C - Owner/Cultivator
O/GC - Owner/Son cultivator

Table G.8.20 Concept on the Operation and Maintenance of Post-harvest Facilities by Landless Farm Households, Cannalig Diversion and Dam No.2 Lowland Model Project Areas

									5 - 3							Unic : Mand Total	O DI ACT	K41.K41.57	
	70.410	Cartods	ig Diversi L/SI	(45)		2		ONC	O/C	USC	- (1	5u5-		OSC	00	LSC	77	Ťote	4
Jiean -	ONC	O/L	E/SI			Suh- Total	٩.					Y. 4.4							
No. of Respondents		8 4	10 '	93	25	166		- 11	41	84	37	156		19	8.4	177	35	332	
Small Scale										_	_			_		٠.		47	
Agroe				22	0	.10	91	ō	5	12	0	17 15	53 47	0	13 8	34 10	9	47 18	72 28
Listagore		Û	2	1	0	3	9	0	6	y	¢	13	47	0		14	v	1.0	
Notion Scale								_		•••		41	zn.	0	35	73	0	108	\$2
Agroc			20 -	44	0	64	96	0	15 7	29	0	.44 30	69 34	0	"i	16	ŏ	23	15
Divagree		o	0	3	0	3	4	0	7	. 13	v	Z.J	- 51	U	,	10	v	2)	19
Large Scale					_			_	_			22	69	0	16	36	0	: 52	80
Agree				22	0	30	91	0		14	0	10	31	0	15	,×0 8	0	13	20
Disagnee		Û	3	1	0	3	9	0	3 .	•	ų	10	31	v	,	•	v	13	20
िक्रदर्शनेवा			_	_				_		_		- 10	70	0	0	0	43	41	79
Agree			Ç.	C	22	?2	88 12	0	. D	0	19	19	¥0	9	ő	å	ñ	ii	21
Dicagne		Ď .	0	O-	- 3	3	12	v	v	U	•	•	.•0	·	U		• • • • • • • • • • • • • • • • • • • •		
Owner/New-cultivator				_							G		82	17	0	0	0	17	89
Agrice			0	0	0	ō	100	. 9	0	0	0	· 9.	12	2	ŏ	ă	ő	- 2	ាំរំ
Diagret		v	O.	Ų	U	u	•	- 2	υ.		v	2	10	•		•	v	•	
Tetal			36	88	22	154	93	9	28	55	19	111	67	1 17	- 64	143	41	265	80
Agrot		, .	90 ·	40	1	12	'n	2	16	29	1	55	33	2	64 20	34	11	67	20
Diragne		v	•	,	,	• • • • • • • • • • • • • • • • • • • •	,	•	10	•	•			_	•	• • •		-	
Reason for disagreement.		_		_		_				10		19	35			13		26	39
no management capability		0	2	3		?	58 25	2	6.	2			10	Š	. 3	3	í	- 9	13
no financial capability		0	:	!	4	3	. 0	á	2		. 0	7	13	: 0	. 3	. 6	·	9	13
क्रम क्रायुक्त का इतिहरू -		0	0		v.	2		v	4	12	·	23	42	. 6	6	12	š	23	34
ma art epitable		ų	v	U	u	·	٠	v	•	•	,		٠.		•	-	•		
Organization for the Management						4	33	G		23		38	69	0	8	25		42	63
LAs and ICs		0 0		ź.,	. ;	6	39 30	2	,	5		11	20	2	6	ï	, ,	ii	25
Organized cox p		0 ·	4 .	4	0		- X	ć	7		ň		. 2	ê	2	ė	ā	2	- 3
Existing permit		e	ò	v n	7	ò	,	ů	;	ĭ		•	3	ō	2	ĩ	Ň	3	i
Ricemilles		0	0			,		0	,	ò		ŕ		ō	5	i		š	- 7
Barangay Captain/Council		v	٧	•	v	•	•	·	. 4	•	•	-	1		•	•	•	Ţ.	
Multiple response																			

OAC Owner/Cultivator
OAC - Owner/Cultivator
LISC - Lessee/Sharecoupper
CT - Carcuker IA - Irrigators' Association

Table G.8.21 Technical Assistance Needed to Set-Up Post-Harvest Facilities, Camalig Diversion and Dam No.2 Lowland Model Project Areas

						7.45	Ď.	Sel sh												-				DAM			<u>d Roy</u>	L NOW SPICE	·				
ltem		-	NNC				ď.			LISC			Сľ			5.1-1.	Plat.		•)NC			(M.			USC			(1			Sob-	
No of Respondents							40			9)			25			166		-		11			44			H			77			166	
Fet		* (.od	3rd		e .	aj	Nd	Ιœ	24	lid	14	.54	3/d	[∢	294	314		; at	2nd	Sid	la.	2nJ	1.1	ls	2:1.5	Md	14	264	. Is d	I st	nd	31
in all Scale																																	
un have of equipment		9		. •	0	4	0		12	3	0	Đ	0	e	16		•		0	0	0	- 1	0	2		3	. 3	٥	Q	0	, ,	. 3	, :
construction of facilities		0	0	•	0	2	Ł	0	12 11	3 5 20	- 0	0	. 0	0	15	- 6 20	0		0	0	0	2	.0	0		4	ŧ	0	. 0	0	14	1 4	4 6
Fraining on operating 10th facilities Fodium Scale		0	0	4	P	ì	0	9	0	20	0	Đ	0	C	1	20	0		0	0	0	D	3	G	,	9	1	0	c	0)	16	5 1
an pare of obsiderant		A	n		•	10	n	•	21	, k		ō	a	a	31	- E			0	8	a	4	- 1			5	12	0	- 5	e	10	. 9	3 36
Constitution of facilities		ă	×		ň	7	ĭ	9	21	6 34	22	0	0	. 0	3)		17		0	ă	ä	10	. L	•	10	6	12	0	. 0	Ö	100	9	
raining on operating such (acidities		×	×	4		i	11	ď	ĭ	1.0	27	Ň	ň	ŏ	;	- 45	- ;;		ŏ	ň	á	- 7	10	- 1				ŏ	ŏ	ŏ		2	. If
uge Stals		•	٠		•	•	•	٠.	٠	7	•	•			•	7.7	•		Ţ.		Ī			·			_		-	•			
an have of equipment		0	0	- 1	0	6	Ŀ	,	,	0	3	o	0	. 0	1.9		•		000	0	9	2	4		•	2	7	0	0	. 0		, ,	ند
Construction of facilities		0	0	- 1	Þ	4	0	9	14	16	. 0	Đ	0	. 0		?	0		•	9.	. g	4	- !	a		10	•	0	0		, 52	,	, ,
Fraining on operating ruch facilities Taxelaker		0	0	•	0	6	٠	1	0	16	•	Ð	. 0	G		17	,		٥	0	q	0	4	1	,	. 10	. 0	0	0	0		14	
un have of equipment		5	Ů	- 1	0	Ð	0	. 0	0	0	0	16	0	3	21	0 1 20	,		1		•	₽.	•	9	0	0	. 0	3	4	4	, 4	: 5	, ,
conduction of facilities		5	. 0	•	0	D.	0	0	9	9	0	16 15 2	29 29	. 0	21 20	7	9		3	0	a	0	- 6	. 0	. 0	0		. 7	,	,	, 9	, ,	, ;
fraining on operating soch facilities		ŧ	ŀ	1	0	Ð	0	0	9	0	0	2	34	0		30	Œ		3	3	Ł	0				0	٥	•	5	4	. 4	•	, , 1
2v no Neg-cultivates																					2 0 1		٠ .										
Purchase of equipment. Top struction of facilities		?	. 0			0	0	0	0	0		0	9	9	3	7	. 0		- ;	0		Ň		ŏ	ă	. 0	0	0	0	ř			
		•					×.		v	ŭ	×	×	ŭ	,	•		×		•	٠		Š		š	ň	ň			ň	ň	. :		
Fraining on operating took facilities		•	ı	•	,	Ų	٠	v	9		v	v	U	u	•	•	v		•	•	•		٠	٠	•	·	٠		٠		•	. ,	
Coluit																																	
Turchase of equipment		10	0	- 1	Û	26	1	3	40	6	9	16	0	,	64 63	7	15 27		2	2	4	•	3	04	. 13	- 13	32	3	4	4	26	24	: 40
ing appetion of the litter		10	0	0	0	B	3	0	27	13	27	16 15	0 2 19	0	65	15	27		4	0	•	16	. 3	- 1	13 26 14	13 16 37	32 6 10	7	3	3	53	21	1 10
Fraining on operating 10.4 facilities	- 1	8	3	•	a	7	12		1	70	- 1	2	19	٥	19	103	2		4	6	?	4	21	2	14	37	10	. 4	3	- 4	: 26	69) 11

N 40

O/C - Owner/Cultivator O/NC - Owner/Non-cultivator U/SC - Lessee/Sharmonger

Table G.8.22 Location of Post-Harvest Facilities, Camalig Diversion and Dam No.2 Lowland Model Project Areas

															: N	a of Res	pondents)	
		Cam	alig Diver					Dani						Los	fund Tata	1		
ken	ONC	oc.	USC	CŦ	Sub- trial	Ä	ONC	oc	L/SC	T	Sub-	4	ONC	OC.	L/SC	-cr	Total	4
No. of Respondents	8	40	9)	25	166			44	84	27	166		19	84	177	52	332	
Small Scale																		
Center	0	4	9	0	1 B	72	0	7	14	6	28	83	ð	11	23	8	34	31
Ruadside	0	2	3	0	5	72 28	0	3	2	ō	21	81 19	0	- 5		0	10	23
Medium Scale													-	_		•		
Center	0	8	22	0	30	81	0	7	30	0	37	86	0	15	52	0	67	64
Rivadside	0	3	4	Ó	7	19	ō	3	30	ō	37 6	14	0	- 7		ő	Ĭì	16
Large Scale									•	-	_		•		•	v	.,	10
Cealer	0	6	16	0	22	79	0	- 6	- 11	. 0	17	74	0	12	27	0	39	76
Readaide	ō	2	4	0	6	21	ŏ	ĭ		Č	6	26	. ŏ	- 1	9	ŏ	12	24
Carcuker				_			•		-	_	-		•	•	•	·	**	
Center	0	. 0	. 0	8	8	80	0	- a	* 6		2	RG.		0	0	16	16	8-8
Roadside	0	Ō	ō	2	ž	80 20	ŏ	Ġ	. 5	ĭ	ĭ	. 89	. 6	ň	ň	3		16
Owner/Non-cultivator								•	-	-	•	• • •	•		٧	•	,	10
Centur	6	0	0	0	6	75	1	. 0	- 0	0	. 0	. •	a	0	0	o		69
Roadside	2	. 0	Ġ	0	Ž	75 25	2	Ö	ō	ō	ŏ		í	ŏ	ŏ	ő	í	31
														_	_	_	-	
िल्य																		
Center	6	81	47	. 8	. 79 22	48	3	20	55	8	. 86 20	52 12	9	38 14	102	16	165	50
Roadside	2	, ,	11	2	33	13	2	7	10	1	20	12	· 4	14	21	3	42	13
No response	0	(5	35	15	65	39	6	17	19	18	60	36	6	32	54	33	125	38

Note:

O/C - Owner/Cultivator
O/NC - Owner/Non-cultivator
U/SC - Les see/Sharecropper
CT - Caretaker

Table G.8.23 Suggested Means for Acquiring Location of Post-Harvest Facilities, Camalig Diversion and Dam No.2 Lowland Model Project Areas

		Camal	g Diversio	00				Dam 2				-		Low	and Total			
Ben	ONC	OC	L/SC	ÇΓ	Sub-	4	OWC	OC	L/SC	CT	Sub-	*	O/NC	0/0	LASC	CT	Total	4
No. of Respondents		40	9)	25	166		- II	44	84	27	156	·	\$9	54	177	32	332	
Small Scale		_						_					_	_				
Purchase	0	3	10	0	13	50	0	2	•	0		19	0		- 14	0		33
Rent	0	1	!	0	2	8	0	. !	2	0	3	10	. 0	2	3	0		9
Donaties	0		3	0	3	12	0	3	6	0	9	29	0	4		0		21
Group Barangey Consensus	0	0		0	3	. 12	0		3	0	7	23	0	4	6	. (1		. 18
Government provided	. 0	0	. 3	0	3	12	0	C	3	0	3	10	0	o	6	0		11
Owner's option	0	G	- 2	0	. 2	8	0	0	3	0	3	10	0	0	5	. 0	. 5	5
Madium Scale	+ +		>															
Purchase	0		20	0	28	48	0	3	B	0	. 11	21	٥	11	28	. 0		35
Rest	. 0	- 1	. 6	0	7	12	0	- 1	3	. 0		8	0	. 2	9	0		10
Donation	. 0	· 1	· 5	0	6	- 10	. С	3	10	0	13	25	Q	. 4	15	. 0	19	
Group Barangay Consensus	0	0	. 2	Ð	2)	0	5	: 6	Q		21	0	5	. 8	. (: 13	62
Government provided	. 0	,	1 1	0	4	. 7	0	· t	7	0		15	. 0	. 4	. 8	()	12	t i
Owner's resion	- 0	. 6	5	0	- 11	19	0	3	. 2	. 0	5	10	0	. 9	. 7	0	16	- 15
Luce Scale																		
Purchase	: 0	,	. 10	ti	12	35	0	2	- 4	0	5	19	O.	4	14	0	18	28
Regi		2	. 1	0	3	9	Ó	ī	2	. 0	3	10	0	3	3	Ó		9
Donation	· ŏ	ī	Ä	ő		13	. 0	2	i	0	Š	29	. 0	3	11	. 6		22
Group/Barangay Consensus	ō	i	· i	. 0	2	6	Ō	ī	5	ō	- 6	19	ō	2	6	. 0		12
Government provided	: ŏ	;	· i	ő	3	ğ	· ŏ	- 4	ĩ	ō	ž	23	ň	: 6	ä	Č		15
Owner's option	ő			Ď	ó	26	ó	à	. 0	ŏ	ō	ō	ŏ	. 3		õ		14
Caretaker	•		•		,			•	_		-	•		-			•	•
Parchase	0	0	0	16	19	4?	. 0	0	0			25	0	a	. 0	15	15	34
Real	· o	Ň	ŏ	1	ï	13	ŏ	ŏ	ō		ī	3	ň	ň	ň	Á	4	9
Donation	ŏ	ň	a	3	á	iš	ő	. ŏ	ŏ	i	į	- 20		õ	ō	j	i	16
Group/Barangay Consensus	·ŏ	ň	ň	อ์	ó	· o	ŏ	ő	ő	3	i	15	ŏ	ŏ	ŏ		- 1	1
Government provided	· ŏ	ň	ů.	ű	Ä	17	ŏ	ŏ	Õ	7	- 5	35	. 0	·ŏ	. ŏ	- 11	- 11	25
Owner's option	ŏ	. 0		- ;	- 3	17	ő	ŏ	ŏ	ó	'n	õ	ŭ	ň	ő	- "		- f
Owner/Non-cultivator	v		•	•	-	• • • • • • • • • • • • • • • • • • • •	•	•	ν,	**		٠			•	•	•	,
Purchase	,	0	0	0	,	33	3	. 0	ō	. 0		27	•	0	0	g		. 29
Rent	:	. 0	0	. 0		17	. 0	·ŏ	ŏ	ő	·	Ö	1	ŏ	· ŏ	ä	•	6
ncon Donation		ň	0	0	- :	17	. 6	0	. 0	ŏ		55		ិត	· ŏ	ă		
Group/Barangay Consentos		ň	. 0	0	. 0			ă	0	ō		0	o	ŏ	· ŏ	. 0		10
	. 2	ő		0	2	33	2	ů	ő	ŏ	1	18	ă	ŏ	ŏ	0		24
Government provided		ŏ		0	ó	93	á	Ô	ŏ	ŏ		10	ō	ŏ	. ŏ	ő		4
Owner's option		v	U	0	v	v	v		v	v	Ä	υ	v	v	. 0	U	. 4	U
Total																		
Purchase	7	13	40	10	65	39	3	7	14	. 5	31	19	5	20	56	15	96	29
Rent	ī	13	8		15	10	. 0	3	7	í	- 0	1	í	ž	15	4	27	
Donation	i	i	ıĭ	ં į	18	ìì	ě	8	23	i	- 41	25	j	ıi	34	ż	59	Ιŝ
Group/Barangay Consensus	á	í	6	ő	7	- ';	ň	10	14	i	27	16	ó	ii	20	•	3,4	ió
Covernment provided	,		5	4	15	10	2	5	13		27	16	ĭ	10	18	- 11	43	13
Owner's option	. 6	9	13	- 2	26	16	ō	· 3	"	်	, , , , , , , , , , , , , , , , , , ,	Š	ō	12	18	- "	34	- 10

Nete

O/C - Owner/Cultivator
O/NC - Owner/Cultivator
D/NC - Owner/Non-cultivator
D/SC - Lesses/Sharecropyer
C/T - Caretakor

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Table G.8.24 Machineries Needed to Improve Productivity, Camalig Diversion and Dam No.2 Lowland Model Project Areas

																								:No o	Rein	30, 3, 141	4				
				Cania	lig Chai	cisica																DAM									
Theory.		U.V.C			O/C			LISC			Cr			Sub I	Nat			ONC			OAC			LISC			CT			Sub-T	iH2
No. of Respondents					40			93			25			166				-11			44			84			27			166	
Rank	10		765	Tal		3rJ	144	200	3-4	14	Zno	310	i st	2110	1n1	-	l si	2nd	3rd	ig	Ind	le d	l w	2nd	3ru	ĪĦ	250	3 กับ	let	ZnJ	3rd
							.,,,,																							-	
Small Scale																															
Tractor ,	0	0	Ú	5	3	2	12		- 6	0	¢	9	17 2 6	. 11 16 7	5			٥	. 0	. 5	•	. 0	15	. 2	. 0	0	•	Ō	20	3	9
Tiller	0	0	0	- 1,	.)	. 2	12 9 5	7	6	Ŏ	0	Ó		16	11		0	0	D	9	•	- 5	3	?	. 5	0	0	Ō	3	В	10
Thresher	0	0	0	- 1	,	5	5	•	6	O	0	0	6	,	- 11		Q	G	Q	•	4	2	3	۰		0	0	q		10	
Medium Seek																	_							_		_	_	٠.			
Transe	0	0	Û	15	6	٥	32	5	1	0	0	0	47	11	1		9	0	. 0	15	•	0	- 43	. 3	. 0	0	0	0	38	- 4	- 0
Tiller	Ö	0	0	٥	9	7	. 1	- 6	10	0	0	0	12	15	17		0	9	0		¢	?	•	16 26	20 18	0	0	Ó		22	27
Thresher	0	0	0	- 3	,	- 11	3	11	. 4	0	0	0	12	14	15		0	C	0		2	5	3	26	18	D	0	9	•	34	23
Large Scale												-						1.							_	_	_	2		_	
Tractor	Đ	0	0	. 7	3	Ļ	- 13	7	0	- 0	0	0	20)10	- 1		6 0	g	0	9	•	. 0	- 13	. 24	0 7 23	. 0	Ō	ō	24	- 4	Q
Tiller	0	0	0	0	3	5	1	- 6	. 6	0	D	0	ŧ	3	11		•	G	0	0	3	6	,		7	0	0	0	3	11 28	13
Thresher	0	Ð	0	3	2	. 1	6	3	6	Ð	. 0	0	9	5	7		0	0	0		4	3	ð	. 24	23	0	0	0	7	28	29
Caretaker								-																							
Tractor	D	D	D	0	0	0	٥	۰	0	14		2	14		2		0	0	9	0	0	٥	. 0	G	0	20	•	0	20	•	9
Tiller	0	0	. 0	0	0	0	0	0	0	9	2	16	0	3	16			0	0	Ō	ņ	0	0	. 0	0	. 3	7.	10	2	?	10
Thresher:	0	0	D	0	0	0	¢		9	3	15		5	15	4		0	0	0	0	0	0	•	. 0	0	. 3	34	7	3	14	7
Danes See sullisates												٠.																			
Tractor	8	2	0	0	0	0	. 0	0	• 0	0	Ð	0	*	2	0		?	- 1	O	0	D	0	- 0	0	0	· D	0	0	7	3	Q
Tiller	0	3	2	0	0	0	0	. 0	0	0	0	0	0	3	2		1	1	4	0	0	0	0	Q Q	0	0	0	0		. 1	•
Thresher	0	3	3	0	0	0	0	0	0	0	0	0	0	2	3		3	3	ı	0	D	0	0	Ç	Đ	D	0	0	2	5	1
Ing																															
Tractor	8	2	Ð	27	12	3	57	20	7	34		2	106	42	12		7	1	Q	30	3	٥	73	5	0	20	4	. 5	129	16	
Tiller	0	3	2	1	15	14	20	19	16 16	. 0	. 2	16	- 3	42 39 43	48		1	- 1.	. 4		10 16	16 10	10	31 56	32 47	2	7	10	14 22	49	64
Thresher	0	2	3	7		17	70	13	16	5	15		32	4.1	46		,	- 5	- 1	•	16	10	- 12	56	47	5	14	7	72	93	Ć8

N. KE

MC - Owner/Cultivator

NNC - Owner/Non-cultivator

/SC - Lessee/Share-repper T - Caretiker

Table G.8.25 Operation and Management of Far Machineries, Camalig Diversion and Dam No.2 Lowland Model Project Areas

			- Fe -					Dum .	,						(Unit: National Teles		1	
Item	ONC	O/C	ulig Dave	(T	Sub-	4	ONC	O/C	LISC	C1	Sub-		ONC	O/C	L/SC	Ċŧ	Total	4
		·····			total		1	41	84	27	166 166		13	84	177	52	332	
No. of Respondents	8	10	9)	25	166		<u></u> -				100							
Management by:																		
mail Scale									_	_			_			. 0	21	
As and ICs	Ü	2		0		39	0	3	5	0	8	25	Û	5				
reperative	0	2				21	0	. 4	4	0		25	0	6		0		
andless	0	6	. 7	•) 13	39	0	4	12	0	16	50	0	10	19	v	24	
edium Scale						-				_		•	_				39	
and IGs	0	6				24	0	7	16	0	23	36	0	13		0		
ooperative	. 0	3				16	0	4	4	0	8	13	0	- 1		0		
indiess	0	- 11	29	•	40	60	0	- 10	2.2	0	33	70	0	35	51	0	73	
arge Scale																_		
us and IGs	. 0	. 2		(0 10	30	0	₿.	6	0	34	.44	0	. 10		0	24	
operative	. 0	o		- (9	24	0	0	5	0		16	0	. 0		0		
andless	0	. 8	7	. () L5	43	0	3	10	0	- 13	41	0	11	17	0	28	
eretaker																		
us and ICs	0	U	0		5 5	20	-0	0	0	7	7	26	0	Q		12		
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ndess	ő	ř				56	. 0	0	0	16	16	59	0	0	• 0	30	30	
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s and iGs	. 2	. (0	- 1	0 2	25	. 5	0	0	0	. 5	45	7	0	. 0	. 0		
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poperative	6	. 0			0 6	75	ā	ŏ	ŏ	ō		36	10	Ó	. 0	0	10	
andless		•	•	•				•		_								
otal						**				,	57	34	7	28	. 56	12	103	
ls and fGs	2	10			5 46	28	5	18	27	á	27	16	ź	13		10		
onperative	Ú				6 32	19	2	. 8	. 13				10	43		30		
anchess	6	25	43	14	4 R8	53	•	. 18	44	16	85	49	(1)	4,		30	170	
. Operation Condition																		
mail Scale																		
usiom service with charge	0		20	, (0 26	. 79	Ð	10	18	0		88	Ð	16		. 0		
ame as private owners	· o	4	3		0 7	žΙ	0	1	3	0	4	13	0	5	5	. 0	31	
edium Scale																		
estom service with charge	0	13	39		G 58	87	0	17	39	G	56	89	. 0	36		0		
ine as private owners	ō				0 9		0	5	3	0	. 8	13	0	6		0)7	
wee Scale	*																	
nge seemice with charge	. 0		17		0 25	76	0		18	0	25	83	0	15		0		
ine as private owners	ŏ				0 8	24	0	2	3	0	5	17	0	4	9	0	13	
retaker	v	•				•												
stem service with charge	. 0	() () - ji	B 18	72	Ġ	0	. 0	24	24	89	ō.		. 0	42		
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me as private owners	•	•	• .					-	•	-	_							
ner/Non-cultivator		4			0 6	100	. 9	0	. 0	0	9	82	17	. 4	. 9	: 0	£7	
istom service with charge					0 0		2		ŏ	ŏ		11	2					
une as private owners	U	'		' '	• •		•	•	v	٠	•		•	di i	•			
≛ al												• •		63		42	217	
istom service with charge	8						9		75	24		87	17					
ame as private owners	. 0		7 17		7 31	19	7	8	9	: 3	22	13	2	- 15	. 26	10	53	

Note.

O/C - Owner/Cubivator
O/NC - Owner/Non-cultivator
L/SC - Lesse/Sharecropper
CT - Caretaker

Table G.8.26 Crop Substitutes, Camalig Diversion and Dam No.2 Lowland Model Project Areas

	\$			Camalig							Dam 2			~~~~			Low	and Fotal			
hem	1	O.	NC	OAC	Us	C	CT	Sub-	. d	ONC	CVC	L/St.	(,t	Sub-	4	ONC	OVC	L/SC	Čľ	Total	7
No. of Resp	ordenis		8	40		93	25	165			44	84	27	k tal		19	84	177	52	332	
nail Scale					_																
MTN			0			3	0	4	24	0	8	10	0	18	38	0	9	13	Q	22	
anets			0	1 2		2	0	3	18 24	0		5	0	6 4	13	0	2	?	0	9	
geishie			ů.	· í		,	Ö	•	18	. 0	0	0	Ö	ō	. 8	. 0	3	3	0	8	
nk 4c			. 0	ė		1	0	,	6	٥	0	0	0	ő	. 0	. 0	ė	:	0	;	
N2A8 SS89 B			Ö	· ŏ		1	ŏ	- :	6	. 0	ŏ	ŏ	ő	ŏ	å	ŏ	ŏ	•	0	:	
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nuts			0	- t		7	. 0	. 1	15	0	5	Ť	Ó	12	27	0	6	14	ō	20	
etaNe			0	. 5		0	. 0	5	• 9	0	5	. 2	. 0	7	1.5	0	10	2	0	12	
n. No			0	ŧ		B	0	9	- 16	. 0	. 0	1	0	- 1	2	0		9	Ó	10	
49.2			0	1		0	0	1	2	0	0	0	0	0	0	0	- L	. 0	Ó	ı	
243			0	. 0		5	. 0	. 6	11	. 0	0	1	Ð	1	2	0	0	7	. 0	7	
20			0	l l		ı	0	. 2		. 0	£.	5	٥	6	· (3	0	2	6	o	8	
rsh			0	1		0	Q	- 1	2	0	0	1	0		2	9	- 1	1	. 0	2	
er			Ð	0		4	D	4	. 7	. 0	1	•	0	4	9	0	- 1	7	Đ	8	
bears.			٥	0		0	0	0	O	0	0	2	0	2	4	0	. 0	2	0	2	
go .			0	2		4	0	6	. 11	. 0	0	G	0		0	0	2	4	0	6	
to			0	O		Ð	0	0	0	0	0	0	0		. 0	0	0	0	0	9	
c Scale																					
)			0	. 3		7	0	10	30	0	4	8	0	12	. 41	. 0	7	15	0	22	
uts			0	2		6	0	8	24	0	- 1	6	. 0	. 7	24	0	3	12	0	13	
tal ic			٥	4		.4	0		24	0	2	2	0	4	14	0	6	6	0	12	
44¢			0	. 0		1	0	1	3	0	0	1	0	1	3	0	0	. 2	0	2	
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27.2			0	. 0		1	٥	1	3	0	0	1	0	1	. 3	0	O	2	0	2	
go			0	0		2	. 0	₹	. 6	0	I	- 1	0	. 2		0	. 1	. 3	. 0	4	
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10			0	0		0	0	Ø	. 0	. 0	0	0	0	0	0	0	0	0	0	0	
daker																					
n			0	0		0	9	9	36	. 0	0	0	. 6	-: 6	40	0	. 0	0	- 15	15	
tuts			0	0		0	. 5	5	24)	. 0	٥	Ō	2	. 3	1)	. О	0	0	7	7	
ctable			0	D		0	2	2	. 8	0	0	0	. 3	. 3	20	0	0	0	5	5	Ċ
K.C.			0	. 0		0	0	0	0	0	0	0	0	0	0	0	0	0	. 0	0	
ana			Ō	0		0	0	0	0	. 0	0	. 0	0	0	0	0	0	0	. 0	•	
311			0	0		0	. 1	- 1	. 4	. 0	0	0	. 0	. 0	0	0	0	0	- 1		
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O/C - Owner/Cultivator
O/C - Owner/Cultivator
U/SC - Lesson/Sharecropper
CT - Caretaker

Table G.8.27 Watershed Conservation Measures for Dam, Camalig Diversion and Dam No.2 Lowland Model Project Areas

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		Carr	ialig Diver	SIN				Dunt							wland Tot			
ben	O/NC	O/C	L/SC	CT	Sub- total	4	ONC	O/C	DSC	C1	Sub- เ⊀ฮ์	4	ONC	O/C	L/SC	CT	Total	4
No. of Respondents	6	40)	9)	25	166		- 11	44	84	27	156		19	8.4	177	57	332	
Small Scale																		
Control of upland farming	0	2	4	0	5	17	0	1	. 4	0	3	17	0	3		0	11	17
Incontives to upland farmers	Q	4	12	0	l6 13	46 37	0	10	12	0	22	17 73 19	0	14	24 13	0	38 16	58
Area integrated fanning	0	3	10	0	13	37	٥	0	3	0	,	10	: 0	3	- 1)	0	16	25
Medium Scale																		
Control of upland (arming	0	3	12	0	15 30 36	49	0	. 5	3	0	8	12	. 0	. 8	15	0	23	16
Incentives to upland farmers	0	9	· 21	0	30	37 44	0	13	22 17	0	35 22	54 34	0	22	43 43	0	6.5 58	45
Area lategrated farming	Ö	10	26	0	36	44	- 0	. 5	17	G	25	. 34	0	1.5	43	0	58	40
Large Stale																		
Control of upland famning	0		1	0	2	. 6	. 0	2	7	0	4	12	. 0	: 3	. 3	0	- 5	9
Incentives to upland farmers	0	4	15	0	- 19	58 36	. 0	. 9	15	. 0	24	71	0	13	30	. 0	43	64
Area integrated farming	Ó	. 3	9	0	12	36	0	0	•	•		- 18	0	• 3	15	. 0	18	27
Carctaker																		
Control of upland (arming	G	0	. 0	5		18	. 0	0	0	3	3	- 12		0	. 0	~ 9	9	15
Incentives to upland farmers	Ó	. 0	. 0	ΙŪ	11	33	. 0	0	0	14 9	14	54 - 35	0	0	0	. 25	25	42
Area integrated farming	ő	ō	. 0	16	- 16	18 33 48	. 0	0 0 0	0	. 9	9 :	35	. 0	. 0	0	25	25	42
Owner/Non-cultivator		-																
Control of upland farming	0	0	. 0	0	0	. 0	2	. 0	0	•	2	15	2	. 0	. 0	0	2	10
Incentives to upland farmers	4	ō	. 0	Ö	4	57	. В	0	0	. 0	8	62	12	0	0	0	12	50
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Control of upland familing	0	6	. 17	6	29	15	. 2		9	3	22	- 13	. 2	14		9	51	14
Incontives to upland farmers	4	17	48	11	80	42	8	32	49 26	14	103 43	. 61	12			25	183	51
Area integrated farming	3	16	45	l6	60	42	3	5	26	9	43	26	, 6	- 20	71	25	123	34
No response		- 1	0	0	2	1	. 0	0	0	. 0	0	0		- 1	0	0	2	1

Note

O/C - Owner/Cultivalor
O/NC - Owner/Non-cultivalor
U/SC - Lessor/Sharecropper
CT - Caretaker

Table G.8.28 Priority Project Components for the WLIRDP, Camalig Diversion and Dam No.2 Lowland Model Project Areas

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OPC - Owner/Caldivator OPC - Owner/Non-caldivator

Table G.8.29 Summary of Issues and Concerns Related to Project Implementation, Camalig Diversion and Dam No.2 Lowland Model Project Areas (1/5)

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	-		-	Project Implementa	Project Implementation Requirements		Farmer's Priority		Troposed Conce	Proposed Conceptionships National			
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Paragay			Participants	≾	*	of the Irrigation		Pacifilies	Lundless Farmers		Weler		and Concerns
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Diversion											****		
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Table G.8.29 Summary of Issues and Concerns Related to Project Implementation, Camalig Diversion and Dam No.2 Lowland Model Project Areas (2/5)

Project Implementation Requiremental Farmers Priority					Farmen Priority Vaccil Impense	Farmers Priority			Proposed Concepts/Issues Kulayd	G/Issues Kulaed			
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Perticipants IA ISF of the Irrigation	Periodpants IA ISF of the Irrigation	IA ISF of the Irrigation	ISF of the Irrigation	of the Irrigation			Pacifilli		Landless Farmers		Water		and Concerns
System	Nystem	Nystem	Nymeen	System					as a Service Agency		Destribution		
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Hall acceptance acceptance acceptance dynamic dryes and nee	ACCEPTANCE ACCEPTANCE ACCEPTANCE	aceptable acceptable	aceptable acceptable	acceptable	*	dryer and	dryer and	e e	acceptable	acceptable	Apriles	schution	or project
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<u>.</u>				pront	plead				the need for			extreme water	- payment of
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						<b>S</b>	<b>H</b>	an lix20 m of		matemais	-	component of	
bility of the	bility of the	bility of the				PG.	3	land in Purok				the project	
						\$ 12	\$ 1	2 for these					
17-Jol-96 Barreyy 57 "generally "generally "generally "generally "generally "solar diver	57 * generally centrally scentrally hand tractor	* generally cantally scentally a generally	* generally * generally * hand tractor	* generally * hand tractor	* hand (rector	İ	ig G	liyer,	* generally	rice will remain	for further	inclusion of	· schlienen of
	acceptable acceptable	acceptabe acceptable	acceptabe acceptable	Service		town .	Ş	mechanical	acceptable	as the main	study	Comun in the	ROW claims
						eş.	ξ			cus		sping develop-	- unmediate
	-	-	-	wo produce.	- depend on		:					meat component	птонстанов
the Diagr	the than-	the than-	the than-			- Dans	New Year	(FF)			-	of the project	of the project
	उस्ति देवीन	उस्ति देवीन	उस्ति देवीन			officia	officia of	Officials will				~~~	· will be wolun-
baliny of the						20.00	2	De responsible					teenny their
Concession Control of the Control of						forthe	for the	Hic			*****		services
													(heyauthan
													style) in the
													transfer of
													Lacag families
											- 3		to the resettle-
													ment rate

Table G.8.29 Summary of Issues and Concerns Related to Project Implementation, Camalig Diversion and Dam No.2 Lowland Model Project Areas (3/5)

				Moheet Implementation Kequirement	ion Requirements		Farmers Priority		Proposed Concepts/Issues Raised	pts/Issues Raised			
	erampae	_		(super Rainer)	5		Requirements					•	
Model Area	Date	Venue	Number of	Formation of	Payment of	Americation	Farm Machinery	Post-harvest	Organization of	Crup Kotation	Ketation of	Infrastructure	Other Inques
Harman Say		- '	Participants	<b>*</b>		of the trrigation		Facilties	Landies Farmers		Water		and Concerns
***************************************						Systems			as a Nervice Agency		Destribution		
b.3) Cormun	18.Jul.46	Barangey	ž.	generally	geneally	generally	hand tractor	nochancs	• generally	nce will be	for further	nome	· settlement of
		H		w.centable				dryer, solar	acceptable	the main crop	Study		ROW claums
	,					- would		uye		· · ·			· terpet date
				-		depend on		barangay					of amplemen-
						feasibility		officials will			enthem.		Saluth
		ŧ				study	-	be responsible					- Parlamenta
								for the site.					
	_							: .				-	
h,4) Ingrado	44-761-34	Inarado	ş	enerally	- Kenerally	venerally .	hand tructor.	solur dryers.	• penerally	e ponerally	NUPIPOU TO	none.	· payment of the
		Elementary		acceptable	SCOOTS AND THE	W.Verpache	Sprawers and	mechanical	acceptable	acceptable	further		usage of the
		School		- measures to		- procyct study	threshers	dryers and			- GINCUNSION		Lewel II water
				be underlawen		to be made		aru Sunda,					- moody
	- 14-			so that anternal		- habitity of		mils					- क्रिक्ट क्रिक
				בניש אנישווים ביי		Ore ages					-	an der die	of implemen-
				the awarded		Ciation if dam				-			Detron
				- members		collapses							- settlement of
			:	its ad pinous									XOW cliams
				(arm cultivators			-						· Sessence to
							~~~				استخنطا		Servegay
													Lacty
n.S) Alobo	13-Jut-98	Vioto	8	* generally	Penerally	generally	* hand tractors,	nce mili	generally	nce to be	for further	- snekustom est	· settlement of
		Chapet		acceptable	acceptable	acceptable	Unrahers	• Mr. Feliman	acceptable	their main emph	Konsk	Alohoin	ROW claims
				Oi bood :	peymen	study to		Luces of Purok				harangay road	- poseible
	*****		٠.	formulate rules	musi R	determine		1 could donate				mpersent	. or notinos
				and regulations	ren (sed	capability of		ihe suc					credicate
				- uthancs and	hetween the	LA should		-				-	Golden Snaris
				iandownen	tandowner	Tr under					-		
				should be	and the	taken							
		:		members of	Consult	:							
				۲,									

Table G.8.29 Summary of Issues and Concerns Related to Project Implementation, Camalig Diversion and Dam No.2 Lowland Model Project Areas (4/5)

				Project Implement	Project Implementation Requirements/		Farmers Priority		Proposed Conce	Proposed ConveptivIssues Raised			
				france Raised	Pass		Requirements					·1	
Model Arts	Dete	Venue	Number of	Formation of	mentof	Amortization	Farm Machinery	Post-harvest	Organization of	Crop Kotation	Rotation of	Infrastructure	Other Issues
Rarangay			Participants	\$		of the trrigation		Facilities	Landless Farmers		Water		and Concerns
						System			as a hervice		Destribution		
									- vicence				
		:							:				,
to.ch Tabon-	14-Jul-95	Barangay	۶.	- senorally	generally	Renorally	hand tractor.	Dun relox	_ generally	rice (or he the	Scheme could	THE STATE OF THE S	settlement of
Tabon		Hall I		acceptable	accepunke	acceptable	Iresher	mechanical	ecceptable	main crop	he further		KOW CLUMB
	propries of							dryen			studied by IA		
			<i>.</i>	- members		- affordability		- the facilities	- maced for				
				should be all		of LA to be		count he	INSTITUTORNAS				
	×1=-	~~		farm cultivaces		shedred		accommodated	strengthening				
				:		-0		at the present	umstand				
								ente of the	-		•		
								harangay hall					
h.7) Burgos	36-1at-11	Buntos	\$	* generally	generally	- reactally	* hand unctors.	solar dryer	* generally	nee to be the	for further	myz.	- rettlement of
	-	Compa		acustrable	* cepunde	acceptable	מהראבונו יועם	mechanical	acceptable	மனம் எல்	ybuly		KOW Clarits
		*****					strayors	dryer and					· target date of
				mat the .	· who will be	- means for		nce mills					Implementation
				Cultivators	responsible	(A to nuse		Mr. Reynatio		-			· cradication of
				should be	for the	the payments		Louene of					Golden Snaith
				members	payment of			Purcik 3 is					· willingstein Ri
	-				989			estima to					word Begy
			:					Genale a					Lucay families
								portion of his					in the transfer
								land as a	Marie V				to resembenent
					:			possible site	-				SUC
								for these facilities					4
P.K) Taladong	15-M-95	Kesidence	7.	* generally	* generally	- teachily	* hand tractor	mechanical	- generally	palay will be	Aubject to	- if the utilization	- settlement of
Date:		of Barangay		acceptable	acceptable	w.cebrapie		dryer "rolling"	scopiable	their main chyp	further	of potable	KOW claims
Bongahong		Captain	~~~					nce milis			discussion	water supply	
		Laura Neo of		- possibility for		- subject to		· site for these				will also be	
		Boultshow		the humangay		further study		facilities will be				pand by the	
	-			residents to	:	of the !A		the respon-				resudents of	
				frauttash the				sibility of the				Takadonik	
				THE SHALLOW				harangay					
				system in their		1		مرزاداهاه					
				Arca	1		ľ						

Table G.8.29 Summary of Issues and Concerns Related to Project Implementation, Camalig Diversion and Dam No.2 Lowland Model Project Areas (5/5)

		Other Isaues	and Concerns		· affected	families to Te	the provincy for	cmploymen	generated by	the project	To assures of	potable water	south will not	he affected by	the impation	myed	· full support of	The residents	to the water.	shed manage-	שיבאו לאנולגותו	will be needed							-
		Infrastructure			- Affected	readents will	שא שבאכעו האב	unbjemenation	of the project.	However, the	reactionical	and compen-	sation pack-	age about the	famile() up	· compensation	Parchage 10f	the tenantial	share crippers	- stability of the	structure and	capacity to	nuppity water	באכני קחנונול	Ury nearon	- mmediate	payment of	clasion in	_
		Rotation of	Water	Destribution		· satisfied										.,					•~~								
Act of Delend	ON THE PARTY OF TH	Crop Rotation																								a _{1.7} No. 11			
	TOPORCO CARICEDOS DAGOS MAISEC	Organization of	Lundhess Farmers	as a hervice																									
.~		Pintharvest	Facilties											-														•	-
	Mequirements	Fuem Machinery									<u>-i</u>				-		-	:	:										-
		Amortization P	of the lerigation	System																									_
	Project Implementation Requirements/	Payment of	P.S.																										
	Project Implementation	Formation of	≤																					-					
		Number of	Participants		¥	3																	:						
		Venue					School		-							•	-												
		a a			10,10	in the same of the													-			~-				,			_
		Darangay	Model Arm		1 1 1	300 (60				ī									-										

FARMERS CONCERNS OF RURAL AND AGRICULTURAL DEVELOPMENT **UPLAND MODEL PROJECTS**

Table G.8.30 Attendance in First Consultation Meeting, Magagon and San Ramon

and Mo	act 1	'roje	et Are	35									(Unit : N	o of Res	ronx as)	
	Mage	भूटरमा				S	n Ramon					Upl	and Total			
O.C	USC	Ct	(Sub-tine	it)	ONC	O.C	USC	€Ť	(Sub-tell	al)	ONC	O/C	L/SC	CL	Folat	4
9		5	<u> </u>	4		13	24	4	46	9	3	22	32	9	68	
1	2	0	3	25	2	2	4	0	8	73	2	3	6	0	11	73
1	0	ø	1	25	0		2	0	3	27	0	2	2	0	4	27
3	4	. 0	. 7	78	1	5	8	0	` ₹4	67	ı	8	. 12	. 0	21	70
2	0	0	2	22	1	2	4	0	7	33	1	4	4	0	9	30
								-								
2	. 2	. 0	4	100	I	. 3	- 4	0	8	80	1	5	6	. 0	12	86
0	0	0	. 0		9	0	2	0	2	20	0	. 0	2	0	2	14
0	. 0	3	3	60	. 0	0	0	2	2	50	0	0	0	5	5	56 44
. 0	0	. 2	2 '	49	0	. 0	. 0	. 2	2	50	0	O	0	4	4	44
•				•				:								
- 6	. 8	3	17	77	4	10	16	2	. 32	70	4	. 16	24	. 5	49	7
3	0	2	5	21	i i	3		,	14	30		6	R	4	. 19	28
	9 1 1 3 2 0 0	Mag- GC USC 9	Magagan OC USC Cf 9	Massing CF CSub-tox.	9 8 5 72 9 1 2 0 3 75 1 0 0 1 25 3 4 0 7 78 2 0 0 2 22 2 2 0 4 100 0 0 0 0 - 0 0 3 3 60 0 0 2 2 40	Magagan ONC USC CF (Sub-tax-t) ONC 9	Magagan St	Magogon San Ramon	Magagan San Raman	Magreyon San Remon	Magagan	Magogon San Remon ONC USC CT (Sub-total) ONC ONC USC CT (Sub-total) ONC Magogon San Ramon Uple	Magreyon	Magogon	Magogon	

Table G.8.31 Extent of Achieving Farmers' Expectations in First Consultation Meeting, Magogon and San Ramon Upland Model Project Areas

	., 6,										D						11.			poodents))
			gogor								Ramin							land Total			
Item	O/C	Ĺ	/SC	CT	Ī	(Sub-tital)	O/NC	Q.4	C	USC	Ci	15	ah total)	ONC	O/C	172C	· CT	Total	K
No. of Respondents	 	9	8		3	22	9	5		13	24	4		45	4		<u> </u>	32	9	68	
Small Scale																					
Completely satisfied			- 1		0	2	67					. 0		3	38		1 7	. 2	0	5	
Highly satisfied		0	- i		ō	1	33	1		٥	e	Ô		1	13			· •	ā	. 2	
Low level		Ò	ō		ō	Ó	ō	0		ō	2	Ó		2	25		. 0	. 2	0	1	1
Not satisfied		0	Ö		ō	Ö	ō	Ö		ī	1	Ō		2	25		0 1	Ē	Õ	2	
Mediam Scale			_				_	-				_		_				•		_	
Completely satisfied		2	3		0	5	71			2	4	0		7	50		1 4	7	. 0	12	:
lighly satisfied		i	1		ō	2	29	0		3	4	ō		7	50		. 4	Ś	0	9	
ow level		0	0		ō	Ō	0	Ö		ō	- 0	ō		Ō.				Ō	. 0	. 9	
or satisfied		0	0		0	0	Ó	0		Ó	0	0		0		- 1	0 0	Ò	0	ō	
arge Scale																					
Completely sutisfied		1	2		0	3	75			2	2 .	0		5	63		. 3	. 4	0	8	
lighty satisfied		1	0		0	1	25	-0	1.0	1	. 1	0		2	25		9 2		. 0	3	
ow foret		0	0		0	0	0	. 0		0	•	0		Ĺ	13		. 0		. 0	1	
lot satisfied		0	•		o	0	0	. 0		0	0	0		0) (0	Ū	. 0	
aretaker							- 1														
ompletely satisfied		0	- 0		ı		33	0		. 0	0	- 1		Ł	50) 0	. 0	. 2	2	
tighty satisfied		0	. 0		1	1.5	3)	0	+	0	. 0	1		E	50			. 0	2	2	
ow level		٥	. 0		Ι.		33	0		Ó	. 0	0		G	-	1	•	0		1	
Not satisfied		0	0		0	0	0	0		0	0	0		0	•	- 1) (0	0	0	
[ctal]																					
Completely satisfied		4	6		1	- 11	65	3		5	,	ľ	٠.	16	- 0		3 9	13	2	27	
lighly satisfied		2	2		1	5	29	1		4	5	1		11	34		. 6	. 7	2	16	
ow level		0	. 0		1	1	6	0		0	3	0		3	9) (3	1.1	. (
Not satisfied		0	0		0	0	. 0	0		1	1	0		3	. 6	4	3	. i	6	2	

Nisc

O/C - Owner/Cultivator
O/NC - Owner/Non-cultivator
L/SC - Lessee/Sharoetopper CT - Catetaker

Large Scale
Reason for low level of satisfaction
-high privaty project
component no included
Caretaker
Reason for low level of satisfaction
-this project wait not be
implemented

Table G.8.32 Attachment of the Conditions for Project Implementation, Magogon and San Ramon Upland Model Project Areas

		Magog	OD.			 		San R	amon			 		(Unit: Nand Total			
Item	O/C	L/SC	7	T	Sub-	 O/NC	O.C		/SC	CT	Sub-	 ONC	OC.	L/SC	Ci	Total	
_					Total						Total	 					
No. of Respondents	9		8	3	55	 5		13	24	4	46	 5	25	32	9	6.8	
Small Scale																	
Strengthening of farming-																	
marketing service cooperative	2		2	0	4	2		3	5	0	10	2	5	7	0	- 14	
Intersification of intercropping	2		2	0	4	2		3	5	0	10	2	5	,	0	L4	
Improved practice in upland																	
technology	,		2	0	3	2		3	5	0	10	2	4	7	0	13	
Medium Scale																	
Strengthening of farming-																	
marketing service cooperative	4	1	4	O	R.	2		3	9	0	18	2	11	13	0		
Intensification of intercropping	4	1 .	4 .	G	B.	2		7	9	0	18	2	11	13	G	26	
Improved practice in upland																	
technology			5	0	9	2		7	3	0	16	2	11	12	0	25	
Large Scale																	
Strengthening of farming-									1								
marketing service cooperative	. 2		2	O	4	ı		2	4	. 0	. 7	1	4	. 6	. 0	11	
Intensification of interesopping	. 2		2	ō	4	ı		2 -	4	0	7	1 1	4	6	. 0	11	
Improved practice in upland	_		_	-		-							•				
technology	٠,		2 .	0	. 4	1	4.7	2	4	٥	. 7	1	4	6	·······································	- 11	
Carcisker	-		7	•	,	•		_		•				•	•		
Strengthening of farming-																	
marketing service cooperative	0	1	0	4	- 4	. 0		0	0	. 4	4	0	0	. 0	8	. 8	
Intensification of interespoing	· ň		ě	à	ì	ŏ		ŏ	ň	- 4	à	ŏ	ā	ō	š		
Improved practice in upland	•			•	•	•		Ψ.	•	•	•		•	_	•	_	
technology	0		0	4		0		0	Ð	4	4	0	0	0		8	
# Control # 1			v	•	•	·		•	٠	1	1	v	•	·	·	·	
Total	-																
	Yes	*	. 1	No.	Æ												
Strengthening of farming-																	
marketing service cooperative	59	8	,	. 9	13												
intensification of intercropping	59			9	13												
Improved practice in upland	57			- 11	16												
technology				• -													

Table G.8.33 Expression of Farmers' Support for the Implementation of the Project, Magogon and San Ramon Upland Model Project Areas

		_								- D							and Fotal		pondents)	
			Ligogon							n Ramon										
Stem .	ovc		USC	CT.		ub- otal	4.	O/NC	oc	LISC	C T	Տոթ⊢ (ભai	** .	0/3	VC.	O/C	LISC	Çī	Total	*
No. of Respondents		9	8		5	21		5	1)	24		45			5	53	32	9	68	
mali Scale																				
fill give necessary support		2	2		0	- 4	100	2	3	5	6	10	91		2	5	7	0	14	9.
fill not give support		0	. 0		0	0	. 0	0	U	. 1	. 0) 1	9		0	0	1	0	1	
fedium Scale																				
fill give necessary support		5	4		0	9	100	2	. 7	9	0	18	86		2	12	13	0	27	94
fill not give support		0	0		0	0	0	e	. 0	3	•	3	14		0	0	3	0	3	14
acec Scale	*																			
ill give necessary support		2	2		0	4	. 100	1	3	6	0	10	100		1	5	8	٥	34	10
fill not give support		0	0		0	0	0	0	0	0	0) 0	0		0	0	. 0	0	0	
auctaker																				-
'ill give necessary support		0	0		4	4	80	. 0	0	0	4	4	100		0	0	. 0	. 8		9
fill not give support		0	٥		l	ı	20	0	0	0	. 0	. 0	. 0		0	0		. 1	1	
હાંતો														1.3				٠	1 .	
vill give support		9	8		4	21	95		- 13	. 20	4	42	. 91		5	22	28	B.	63	. 9
fill not give support		ń	ă		1	7:	- 7	ő				1			٥	•	4	. 1	Ψ.	

Note.

O/C - Owner/Cultivator
O/C - Owner/Non-cultivator
U/SC - Lessco/Sharecropper
CF - Caretaker

Table G.8.34 Parmers' Willingness to Allow Right of Way for Road Construction, Magogon and San Ramon Upland Model Project Areas

*					•			•						COBB 15	(I. (III IVES	firmorous)	
		lagogon					Sa	a Ramon					- Ligh	and Total			
Item		1/sc	Сľ	Sub- total	9	O/NC	0/C	USC	CT	Sub- total	9	O-NC	Q/C	t/sc	CT	Total	%
No of Respondents	9		5	11		5	13	24	4	46		5	22	32	9	68	
Small Scale								-									
A'ill allow	2	2	0	4	100	2	2	6	0	10	91 9	2	4	8	0	14	9:
A'iB not aBow	0	0	0	0	0	. 0	1	0	0	1.	9	0	- 1	0	0	i	7
<u>Medium Scale</u> Mill allow					100		1	9	0	17	8.	,	12	13	0	26	87
o na nagw Vill net allow	3	4	. 0	0	· io	i	ó	3	õ	- 4	8 I 19	i		- 13	Ď	4	13
arge Scale	v	. "					v	,	-				•	•	_		
Will allow	2	2	. 0	4	100	1	,	6	0	10	100			8	0	[4	67
Vill not allow Carstaker	. 0	. 0	0	0	. 0	. 0	0	0	0	. 0	0	. 0	0	0	0	o	
Ail allow	0	0	3	3	€0	0	0	0	4	4	100	0	. 0	. 0	7	7	78
Will not allow	Ů.	Õ	2	. 2	€0 40	0	0	ó	. 0	. 0	0	0	0	0	2	2	27
						1 - 1											
[eta] Will allow	9	8	3	20	91	4	. 12	21	4	4)	89	4	21	29	7	61	90
Will not allow	Ó.	ŏ	2	2	91 9	1	Ī	3	0	5	89	ı	1	3	2	7	10

Table G.8.35 Formation/Strengthening of Farmers Marketing Service Cooperative,

	Magagor	n an	d San	Ran	10n U	pland	Model			reas					(Unit : N	o of Re	spondents)	
			Magogon						n Ramon					Ur	and Total			
kem	_	OÆ	L/SC	CT	Sub- total	- R	O/NC	0.C	USC	CI	Sub- tetal	4	ONC	0/C	L/SC	Ċ٢	Tota)	Ą
No. of Responder	its	9	8	5	?2		5	13	24	4	46			5 22	32	9	68	
Small Scale																		
Willing		2	. 2	0	4	100	2	3	6	0	11	100		2 5	. 8	0		100
Not willing		0	0	0	0	0	0	0	. 0	. 0	. 0	. 0		0 0	0	Ò	0	-
Medium Scale												1					1.	
Willing		4	4	0	8	89	2	7	10 2	. 0		90 10		2 11	14	. 0	27-	90
Not willing		1	. 0	0	1	13	0	0	2	0	2	10	1.1	0 1	2	. 0	3	M
Large Scale											100						100	
Willing		. 2	. 2	0	4	100	1 1 1 E	; 3	5	0	9	99		1 5	. 7	0	13	93
Not willing		0	0	0	0	0	0	0	1	. 0	1	10		0 0	Ł	. 0	. 1	7
Carctaker																		
Willing		. 0	0	3	. 3	60 40	0	. 0	0	3		75 25		0 0		6	. 6	67 33
Not willing		. 0	0	2	. 2	40	0	. 0	. 0	i	1	25	1	0 0	0	3	3	. 33
Total									•			•						
Iotal Willing						86		13	**	٠.,	-1	0.1			29		41	90
Not willing	:	8	8	,	19	14	ó	13	21 3	,	42 4	91 9		5 21	- 29	ž	61	10
CACA MARINE		•		4	,	14		U	,		. 4	9		• •	,	,	•	10

O/C - Owner/Cultivator
O/NC - Owner/Non-cultivator
1/SC - Lessee/Sharecropper
CI - Caretaker

Table G.8.36 Presence of Inter-cropping, Magogon and San Ramon Upland Model Project Areas

	** * 1 \/ 3		4415											(Unit: N	io, of Res	pondents).	
		Magagon					Sa	n Ramon					Up!	and Tetal			
lem	0/0	LYSC	CT	Sub- total	4	ONC	O/C	1/\$C	<u>cı</u>	Sub- total		O/NC	0/0	17SC	CT	Tetal	%
No. of Respondents	9	8	5	55		5	13	24	4	. 46		5	72	32	9	68	
Small Scale																	
With intercrop	ı	2		3	- 75	2	3	5	•	10	91 9	2	4	7	•	13 2	87
Without interers p	l l	0		1	25	0	. 0	1	•	i.	Ŷ	0		į		2	13
Medium Scale																	
With intercrop	. 3	2	-	5	56		. 4	8	-	13 6	62 38	ı	7	10	•	18	50
Without intercrop	: 2	. 2	•	4	44	i	3	4	-	6	38	•	- 5	6		12	40
Large Scale																	
With intercrop	. 2	. 1		3	75	ι	2	4	- '	7	70	- 1	4	5	-	10	71
Without intercrop	0	- 1	-	1	25	. 0	1	. 2		3	30	0	- 1	3		4	29
Carctaker																	
With intercrop		-	2	. 2	40	-	-		2	: 2	50	-	-		4	4	44
Without intercrop	-	-	3	. 3	40 60	•	•		2	2	50 50	- "	` <u>-</u>	-	5	5	56
Tetal																	
With intercrop	6	•	,	11	50	4	Q.	17	. ,	13	70	4	15	. 22	4	45	66
Without intercrep	ž	í	i	. 13	59 41	1		1	: 2	32 14	70 30	i	7	10		23	34
a mace meret h	,		•	,	71	•	7	,	: *	.,	30		•	10		2,5	J-

Table G.8.37 Type of Intercrops Planted, Magogon and San Ramon Upland Model Project Areas

	(9.14)	etel Pi														•	(Unit : 1	No. of Re	spondents)	ı
				Magegon							Ramon						and Total			
fse		-0	VC	LISC	Ct	Sub- total	Æ	ONC	(DAC	USC	CT	Sub- total	4	O/NC	O/C	L/SC	CT	Total	Æ
No. of Res	pondents		6	5	2	13			1	9	17	2	32		4	15	22	4	45	
Small Scale															_			_	_	
Com			. !	0	0		25			U	2	0	- 4	36	2		- 1	. 0	5	36
Vegetables			0.		0	' '	25	9		0	0	0	0	0	0	0	1	0		
Camoic			. !	. !	0	2	50	. 1	?	2	2	0	4	36	0	3	3	0	6	43
Rice			0	0	0		0			0	0	€)	i	9	1	0	0	0	ŧ	7
Fruithearing trees			0	0	0	Ð	0	•	•	1	0	4)	ŀ	9	Q	. 1	0	0		7
Peanut			. 0	. 0	0	0	0	•	•	0		0	ı	. 9	. 0	0	3	. 0	1	7
Medium Scale			100																	•
Com			- i.,	0	0		20	•) [2	3 -	0	5	36	0	. 3	. 3	0	6	32
Vegetables			i	ŧ	0		40	•)	0	0	0	0	0	0	1	3	0	2	11
Camote			0	0	0		0	1	l i	0	· •	0	2	14		0	1	0	2	1.11
Rice			0	0	0	• •	0	•	}	0	0	0	. 0	0	: 0	0	0	- 0	0	-
Cassava			1	0	. 0		20	•)	2	3	. 0	. 5	36	0	3	3	0	6	32
Peaput			0	0	. 0	• 0	0	•)	. 0	ı	. 0	- 1	7	. 0	0	1	0	1	5
Валала			0	ı	0		20		ľ	0	0	0	1	7	1	0	- 1	0	. 2	11
Large Scale								100												
Com			1	0	Ó		33	· · · •)	1	2	0	3	43	. 0	2	2	0	4	40
Rootcrops			- 1	ŧ	0	2	67	1	t	1.	ı	. 0	· 3	43	1	2	. 2	Ó	5	50
Mungo			0	0	0	0	0	- (•	0	ŀ	0	1	14	0	ō	i	o	1	10
Carcteker							100						-							
Com			0	. 0	ĺ	1	50)	. 0	. 0	2	2	100	. 0	0	. 6	. 3	3	- 75
Rooterops			0	0	į	ŧ	50		>	0	0	· · ō	0	. 0	ō	ō	0	j	ī	25
			•													•				
Total					•															
Com			3	0	1	4	. 29		Ł	3	7	2	14	41	. 2	6	7	3	1.6	37
Vegetables			i	,	n	1	21	. (1	ō.	0	ő	0	0		ĭ	,			-6
Сапюте			i	ī	a		14		i	ž	š	Ü	6	1.8	ï	1	4		. 8	16
Rice			â	À	á	â		i	ī	ō	· ő	Ö	ı	3	:	ň	- 1	. ,	. ,	
Cassava			ĭ	ň	ň	Ϋ́	ž	7	ì	ž	. 3	ő	4	15		. ,	,	ŏ		12
Fruithearing trees			à	Û	ő	0	. 6	7	5	î	ő	ő	í	3		,	. ,	Ä		
Peanut			ň	ñ	ŏ		۸	7	í	'n	2	Q	,		×		Ÿ	, v	. ;	- 1
Вапала			Ä	ĭ	ŏ	_	7	`		ŏ.	ó	ő	1	. 0	·		- 4			
Reoterops			ĭ	- 1	Ÿ	3	· 21		:	1		0		6	:		'	Ÿ		12
Mungo			ó	0	ó		0			0	- 1	8	3	1	,	2	- 4	0		12
erough)			v	0	Ų		U	•	•	. "		17	. 1		· ·	,0	,	u		- 4

Note:

O/C - Owner/Cultivator
O/NC - Owner/Non-cultivator
L/SC - Lessee/Shatectepper
CT - Carciaker

Table G.8.38 Willingness to Practice or Adopt Inter-cropping, Magogon and San Ramon Upland Model Project Areas

														(Uoit : N	o of Res	pondents)	
		Magogon						и Кальж						and Total			
liens	O/C	LVSC	СŢ	Sub- total	4	OWC	O.C	L/SC	Ci .	Sub- local	4	ONC	Of	L/SC	CT	Total	9
No. of Respondents	3		3	9		,	4	7		14			1	10	5	23	
nall Scule																	
itting	t	0	0	ŧ	100	0	0		0		100	0		1	0	2	1
t willing	. 0	0	Ð	0		0	0	0		• •		0	0	0	0	0	
Mum Scale																	
lting	1	2	Ð	3	75	L	2	2	ď		63	1	3	4	0	8	
willing	1	0	o	ı	25	0	1	2	0	` 1	63 38	0	2	2	0	4	
ge Scale																	
Ding	0	1	0	1	100	0	1	1	0		67 33	0	1	2	0	3	
l willing	o	0	O	0	-	0	0	· ·	0		33	Ð	0	- 1	0	1	
retaker																	
lting .	0	0	2	2	€7	0	. 0	0	. 2		100	0	. 0	0	4	- 4	
t willing	0	Ģ	1	1	33	٥	. 0	0	• 0	•	-	9	0	0	1	ŀ	
tal					~^						. 4.						
itting	,	. 0	2	1	78 22		3	4	. 2	10	71 29	į	5		. 4	13	
t willing		. 0	,	Z	22	Ų	1	3	. 0	4	29	9	2	3	1	6	

O/C - Owner/Cultivator
O/SC - Owner/Non-cultivator
L/SC - Lessee/Starceropper
CT - Caretaker

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Table G.8.39 Priority Groups in Receiving Government Support Services, agogon and San Ramon Upland Model Project Areas

agog	on and	Sai	3 31	(am	011	VΙ)181		(110			1130									(Unit	:No	of Ra	spen	dents	<u>}</u>	
				Mag	ogo	0						-						San	Rai	mon					·		
Item .		ĆΛČ			USC			CT		Sut	- Tota	j.		O/N		(O/C			1/SC			CT		Sut	-Tou	Ŋ
No. of Respondents		~~~ <u>~</u>	****		8			5			22			5			-13			24			4			46	
Rank	1st	2nd	304	lst	2nd	301	lst	2nd	3rJ	İst	2nd	3rd	İst	2nd	3rd	ist	2 nd	3rd	lst	2nd	313	151	2nd	313	sl	2nd	312
Small Scale																											
Landowners	0	2	0	1	0	0	0	0	0	- 1	2	0	0	0	3	2	0	0	0	0	2	0	0	0	2	0	5
Tenants/caretakers	. 0	0	3	0	- 1	0	0	0	0	. 0	- 1	3	0	3	0	0	2	. 0	0	4	0	. 0	0	0	0	9	0
Local elite/officials	2	0	0	0	0	1	0	0	0	2	0	1	2	0	0	0	0	. 1	3	0	0	0	0	0	5	0	ŀ
Medium Scale																											
Landowners	1	0	Ð	2	0	0	0	0	0	ં 3	0	0	0	0	- 1	0	- 4	0	0	5	0	. 0	0	0	0	9	ı
Tenants/caretakers	. 0	2	0	0	0	3	0	0	0	0	2	3	0	1	0	4	0	0	0	0	5	0	0	0	- 4	ı.	- 5
Local obtobilicials	0	0	3	0	2	0	0	0	0	. 0	- 2	3	2	0	0	0	0	3	5	0	0	0	0	0	7	0	3
Large Scale																			:								
Landowners	2	0	0		0	0	0	0	0	- 3	0	0	ı	. 0	0	0	0	- 1	0	0	3	0	0	. 0		0	4
Tenants/caretakers	. 0	3	•	0	Ĺ	0	0	0	0	. 0	4	0	. 0	- 1	0	0	1	0	. 0	. 2	0	. 0	0	0	. 0	4	0
Local elite/officials	ō	ò	2	0	0	1	0	Ó	0	0	0		. 6	0		2	0	. 0	. 3	0	0	0	0	0	5	0	3
Crectaker																											
Landowners	0	. 0	0	0	0	0	0	2	. 0	0	2	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0
Tenants/caretakers	. 0	. 0	Ô	0	0	0	Ò	o	2	. 0	0	2	. 0-	0	- 0	0	0	0	0	0	0	0	3	0	0	3	0
Local cite/officials	Ō	0	0	0	0	0	4	0	0	4	0	0	0	. 0	0	0	0	0	0	0	0	0	0	1	.0	0	ŀ
Ioul																				-							
Landowners	3	2	0	4	0	0	0	. 2	0	7	4	0	1 1	0	4	2	4	•	0	15	5)	0	0	6	· •	10
Tenants/caretakers	· ñ	5	3	Ð	2	3	Ò	0	2	Ó	7	8	ō	5	0	4	3	Ó	Ó	6	5	Ó	3	0	4	17	5
Local chiefofficials	2	ō	5	0	2	2	4	. 0	ō	6	2	ĩ	4	Ģ	1	2	0	4	31	0	0	0	0	1	17	0	6
···	5	7	8					2		13	13	15	- 5	5		8		5	11	11	10	3			27	26	21

Note:

O/C - Owner/Cultivator
ONC - Owner/Non-cultivator
L/SC - Lessed/Sharecropper
CT - Caretaker

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Table G.8.40 Reasons for Absence of Inter-cropping, Magogon and San Ramon Upland Model Project Areas

					Mag											San	Rat					
I tem			O/C			DSC			Sub-1	[Ola]		O/NO			O.C			LSC			Sub-	Tet.
No. of Respondents			3			3			6			1			4			7			12	
Rank		İst	2od	3rd	lst	2nd	37.1	lst	2nJ	3rd	İst	2nd	3rd	1st	2nJ	Ard	l st	2nd	3rd	İst	2nd	36
mell Scale																						
oes not have financial resource to invest		1	0	0	0	0	1	1	0	1	. 0	0	0	0	0	0	0	0	0	0	0	
loes not have time		0	2	0	0	0	0	0	. 2	0	0	0	. 0	0	0	0	0	0	0	0	0	
tray animals		0	0	0	0	0	1	0	0	1	Ò	0	0	0	0	0	0	0	- 1	0	0	
ow price		0	0	1	0	t	0 :	0		1	0	0	0	0	0	0	Ó	0	0	. 0	0	
hortage of equipment		. 0	0	0	0	0	0.	0	0	0	0	0	0	0	0	0	0	0	. 0	0	0	
oes know how to plant intercrop		0	0	G	0	0	0	0	0	0	0	0	- 0	0	0	0	0	0	0	0	0	
oit is not good		0	0	0	0	0	. 0	0	0	0	0	0	. 0	Q	1	0	1	0	0	1	1	
lant disease problem		0	. 0	0	0	0	Û	0	0	0	0	0	0	0	0	0	0	0	•	0	0	
reed problem	100	0	0	0	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0	•	0	0	
ledium Scale																						
loes not have financial resource to invest		1	0	0	0	0	0	1	0	0	0	1	0	. 1	0	Ð	1	0	0	2	i	
Does not have time		0	Ó	0	0	0	. 0	0	0	0	0	0	0	0	0	0	. 0	. 0	. 0	0	0	
Stray animals	:	0	0	0	0	0	. 0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	
low price		0	0	0	0	0	0	0	0	D	1	0	0	0	0	ı	•	0	0	1	0	
hortage of equipment		0	0	1	0	. 0	0	0	0	1	0	0	0	Ū	0	0	0	0	. 0	0	0	
ces know how to plant intercrop		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	. 0	- 1	0	0	1	
oil is not good		0	1	0	0	0	- 0 -	0	ŧ	0	0	0	0	0	0	1	0	0	0	0	0	
lant disease problem		. 0	Q	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
reed problem		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
arge Scale																						
loes not have financial resource to invest		0	0	0	0	0	0	0	0	0	. 0	0	0	. 0	0	1	-0	0	1	0	0	
loes not have time		0	0	0	0	0	Ö.	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0	
tray animals		0	0	0	. 0	0	0	0	0	0	. 0	0	. 0	0	0	. 0	0	0	0	0	0	
ow price		0	0	0	0	. 0	- 0	0	0	0	0	0	0	ı	0	•	. 0	0	. 0	1	0	
hortage of equipment		0	. 0	0	0	0	. 0 .	0	•	0	. 0	. 0	٥	0	0	0	0	2	0	0	2	
loes know how to plant intercrop		0	0	. 0	0	0	0	0	0	0	0	0	0	0	. 0	. 0	0	0	0	0	0	
foil is not good		0	0	. 1	0	0	0	0	0	1	. 0	0	0	0	0	0	1	0	0	1	0	
Plant disease problem		• 0	ŀ	0	0	0	0	0	1	. 0	0	Ó	0	0	0	. 0	0	0	0	0	0	
Weed problem		0	0	0	0	Ò	0	Q	0	Q	Q	0	0	0	0	. 0	0	Q	0	0	0	
Caretaker																						
Does not have financial resource to invest		0	0	. 0	0	0	0	0	. 0	0	0	0	∵ 0	0	- 0	ĺ	0	0	0	. 0	0	
Does not have time		•	0	0	0	0	0	0	Q	0	0	0	0	0	0	Ó	0	. 0	0	0	0	
Stray animals		0	0	0	0	0	0	0	•	0	0	0	0	1	0	: 0	0	0	0	1.	. 0	
Low price		0	0	Ö	U	0	0	0	0	0	0	0	- 0	0	0	0	0	0	0	Ó	0	
Shortage of equipment		0	0	0	0	0	0	0	- 0	0	0	0	0	0	2	0	0	0	0	0	2	
Oces know how to plant intercrop		0	0	0	0	0	0.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Soil is not good		0	0	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0	
lant disease problem		0	0	0	0	0	0	0	0	0	0	0	0	0	Ó	0	0	Û	0	0	0	
Veed problem		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ú	0	
					100					-												
ध्य		_	٠.														-					
loes not have financial resource to invest		. 2	0	0	0	0	1	2	0	1	0	ı	0	3	0	2	1	0	1	2	1	
loes not have time		0	2	0	0	0	0	0	2	0	0	0	0	. 0	0	0	0	0	. 0	0	٥	
tray animals		0	0	0	0	0	1	0	. 0	. 1	0	0	0	. 1	1	0	0	0	2	1	1	
ow price		0	0	1	0	Ī	0	0	1	3	1	0	0	3	0	3	0	0	0	2	0	
hortage of equipment		0	0	1	0	0	Ò	0	0	•	0	0	0	0	2	0	. 0	2	Q.	0	4	
lees know how to plant intercrop		0	0	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0	ı	0	0		
oil is not good		0	1	i	0	0	0	0	1	1	0	0	0	0	£	į	2	0	0	2	ı	
Plant disease problem		0	. 1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
Veed problem		0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	
		2			<u> </u>						·					<u> </u>						
lote:		Z	4	3	0	ı	2 .	2	5	5	1	. 1	1	3	4	4	3	3	3	7	8	

O/C - Owner/Cultivator
O/NC - Owner/Non-cultivator
L/SC - Lessee/Sharecropper
CT - Caretaker

Table G.8.41 Reasons for the Outmigration of the Youths, Magogon and San Ramon Upland Model Project Areas

San	Ra	moi	n L	Upta	nd	Mo	del	Pr	oje	CI.	are	as	 		·						of E	kespoi	noent	(s)			
				Ma	FOF													San	Ráit								
ł iem		0.0	•		Uş	C		CT		\$u	b-total	i		ONC	2	•	O.C			I/SC			CT		Sut	≻ાલ્યસો	1
No. of Respondents		9			8			5			22		 	5			13	<i>-</i>		24			4			46	
Rank	15	2nd	1 30	d Iso	2nd	3rd	İşt	Znd	303	351	2nd	My	 Ist	2nd	303	381	2n 3	.કેલ્પ	lst	200	3:3	lst	203	3rd	tst	2nd	3cJ
Small Scale																											
Shortage of income		2 ()	0 3	2 0	0	0	. 0	Ð	4	0	. 0	0	2	0	0	3	0	0	0	0	0	0	0	0	5	0
Less employ oppor.		0 2	2	0 (9 2	0	ō	0	. 0	0	4	0	2	0	0	2	0	0	0	4	0	0	0	0	4	4	0
Less recreation facilities				2 (ō	Ó	o	4	0	ō	0	0	0	0	0	0	0	0	0	Ó	0	0	0
Poverty		0 6			9 0					0	Ó	2	0	Ō	Ó	0	0	ō	0	0	Ó	0	0	0	0	0	0
Less farming interest		0 0			3 0					ō	0	ō	ġ.	. 0	2	Ó	ō	2	2	Ö	ō	0	Û	0	2	0	4
Medium Scale			-			-	•	-	•		_	_		_	_	_	•					_	-		-		
Shortage of income		0 (n	0 (9 0	0	0	0	. 0	Ó	0	0	. 0	2	0	0	2	0	0	2	0	0	0	0	0	6	0
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Caretaker		٠ ،	,	•	, ,		v	•	v	٧	·	v	•	•	•		۰	,	•	•	.•	•	U		٧	·	•
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Table G.8.42 Priority Requirements for Sustainable Development of Barangays, Magogon and San Ramon Upland Model Project Areas

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Increase in rural employment		2		0	ŏ	G	ŏ	3	Ö	ő	ŏ	ž	ŏ	3		ŏ	ŏ	ŏ	ō	ō	ò	Õ	ō	ŏ	Õ	ő	ō		ō	
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Social reform				0	0	0	. 0	0	0	0		4	0	3		0	0	0	0	1	0	3	0	0	0	0	2			
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Note:																														

O/C - Owner/Cultivator
O/C - Owner/Cultivator
U/SC - Lesses/Sharecropper
CT - Caretaker

Table G.8.43 Concept of Barangay Cluster Formation, Magogon and San Ramon Upland Model Project Areas

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liem	- O/C	Magagos L/SC 0	CT	Sub- tixtal	· ·	ONC		L/SC	TT-	Sub- total	7.	ONC	ove	and Total L/SC	গৈ	Total	- 4
No. of Respondents	9		- 5	12		5	13	24	4	46		3	22	32	9	68	
uall Scale																	
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dium Scale												•	-	•		•	
ne	5	3	0	8	89	2	7	9	0	98	86	2	12	12	0	26	
ng ree	ō	i	ō	i	89 11	5	7	9	0	) 8 3	14	2	12	7	ě	4	
ge Scale						-		-				•	-	•	•	•	
te	2	2	0	4	100	. 0	3	6	•	9	90	ō	•	8	0	13	
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Disagree	0	•			[4	1		3	. 4	•	11				ĩ	Ř	

Cannaker Reason for disagreement too old for this activity

O/C - Owner/Cultivator
O/NC - Owner/Non-cultivator
U/SC - Lesser/Sharecropper
CT - Caretaker

Table G.8.44 Priority Infrastructure Facilities in the Village, Magogon and San Ramon Upland Model Project Areas

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hera			OC			USC			C.I.		500	-total				U/N	-		ωĸ			r/Sc	•		Ų.		281	- una	и
No. of Respondents			9			8			5			22		-		5			13			24			4			46	
Rank		l st	2nd	3/0	158	2nd	3rd	İst	Znd	314	1st	2nd	3/d		[st	2nJ	3rd	151	213	Jrd	151	2nd	3(4	ši	204	3rj	l și	2nd	314
Small Scule																													
Potable water supply		0	0	ı,	0	0	0	0	0	0	0	0	ı		3	0	0	0	0	0	0	0	2	0	0	0	3	0	2
Electrification		0	2	0	0	0	- t	0	0	0	0	2	ı		0	2	0	0	0	2	0	2	0	0	0	0	0	4	2
Inter-village road		0	0	0	0	0	0	0	0	0	0	0	0		0	0	2	2	0	0	2	٥	0	0	0	0	4	0	2
Farm rood		2	Q.	0	-	1	0	0	0	0	3	ι	0		0	0	0	0	2	0	0	0	0	0	0	0	0	2	Ò
Small Impounding dam		0	0	0	0	0	ø	0	0	0	0	0	0	٠.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Medium Scale																													
Potable water supply		0	0	3	0	0	3	Ð	0	0	0	0	6		1	0	0	0	0	0	3	0	0	O	0	0	4	0	0
Electrification		Ō	2	0	ō	ō	0	Ð	. 0	0	0	2	0		0	0	0	0	0	2	0	0	3	0	0	0	0	0	5
Inter-village road		ō	0	Ó	Ů.	2	0	0	0	0	0	2	0		e	0	0	0	0	0	0	0	Ø.	0	0	0	Q.	Q 1	0
farm road		2	Ó	Ó	0	3	0	-0	0	0	2	3	0		0	- 1	0	0	2	0	0	2	0	0	0	0	O	5.	. 0
Small Impounding dam		0	0	0	0	0	0	٥	0	0	0	0	0		0	0	3	3	0	0	0	0	0	0	0	0	3	. 0	3
Large Scale																													
Potable water supply		0	0	3	0	1	0	0	0	0	0	- 1	3	÷	0	0	0	0	0	0	0	0	0	0	0	0	. 0	0	0
Electrification		0	. 2	Ó	0	Ö	0	0	0	0	0	2	0		Q.	0	. 0	2	0	0	0	2	.0	0	. 0	0	2	2	0
Inter-village road		3	0	0	0	0	0	0	0	0	3	Θ.	0	٠.	0	0	1	0	2	0	0	0	3	0	. 0	0	0	2	4
Farm road		0	Q	0	- i	Ó	0	Ó	0	0	ŧ	0	0		0	0	0	0	0	0	0	0	0	O	-0	0	0	0	0
Small Impounding dam		0	0	0	0	0	- 1	0	0	0	0	0	1		G	0	0	0	0	0	0	0	0	0	- 0	0	0	0	. 0
Caretaker																													
Potable water supply		0	0	0	0	0	0	2	0	0	2	0	0		O	0	0	0	0	0	0	0	0	O	2	0	0	2	0
Electrification		0	0	0	0	0	0	2	3	0	2	3	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inter-village road		0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	2	. 0	0	2	0	0
Farm cood		0	o	Ó	0	o	Ó	0	0	0	0	0	0		0	Ò	0	0	0	0	0	0	0	. 0	0	2	0	0	2
Small Impounding dam		0	0	0	O	0	0	0	0	0	0	. 0	0		G	0	0	0	0	0	0	0	0	. 0	0	0	0	0	0
Total																		1											
Potable water supply		0	0	7	0	1	3	2	0	0	2	1.	10	٠.	4	0	0	0	0	٥	3	0	2	0	2	0	1	2	2
Electrification		0	6	0	0	0	1	2	3	0	. 2	9	1		0	2	0	2	. 0	1 ◀	0	4	3	Ü	0	0	2	6	3
nter-village road		3	O	0	0	2	0	0	0	0	3.	2	0		0	0	3	2	2	0	2	. 0	3	2	0	0	6	2	6
Farm road		4	ø	0	2	4	0	٥	0	Ð	6	4	0		0	L	0	0	4	0	0	2	0	O	0	2	0	7	2
Small Impounding dam		0	0	0	0	0	1	0	0	0	0	0	1		0	0	3	3	0	0	0	0	0	0	0	0	3	0	3
		7	- 7	7			-	-	1	0	11	16	-12		4		-6-	7	-6	4			8			2	18	17	20

## Note:

O/C - Owner/Cultivator
O/C - Owner/Cultivator
U/SC - Lessee/Sharecropper
Cf - Caretaker

Table G.8.45 Perception on the Concept of Nucleus Farming, Magogon and San Ramon Upland Model Project Areas

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,													(Unit: N	io of Res	pondents)	)
	Magogon					Sa.						Upl	and Total	-		
O/C	USC	CT	Sub- teral	7	ONC	O/C	DSC	CT	Sub- tota)	4	ONC	0/C	L/SC	Ct	Total	4
9	8		22			13	24	1	45			55	32	9	6.8	
2	2	0		100	2	2	6	0	10	91	2	4	8	0	14	9
0	0	0	0	0	0	ı	0	0	1	9	0	1	0	0	1	
S	4	0	9	100	ı	7	8	0	15	76	t	12	32	0	25	8
6	0	0	0	0	1	0	4	0	5	24	- 1	0	4	0	5	1
2	2	0	4	100	1	2	4	0	7	70	- 1	. 4	6	0	11	7
0	0	0	0	0	0	1	2	0	3	30	. 0	1	2	0	3	2
0	0	5	3	100	. 0	0	0	4	4	100	0	0	0	9	9	10
0	0	. 0	Ð	. 0	. 0	. 0	0	0	0	-	. 0	0	0	0	0	
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9	8	. 5	22	160	4	1.10	18	4	37	80	4	20	26	9	59	. 8
		ò	0	0		2			o.	20		7		Ó	9	ī
	9 2 0 5 0 2 0	Magagen	Magagan  OCC 1/SC CT  9 8 5  2 2 0 0 0 0 0 5 4 0 0 0 0 2 2 0 0 0 0 0 0 5 0 0 0 0	Magogon   Sub-   Ival	Magogon   Sub- 9   Rval	Magogen	Magogon   Sub   9	OCC         LSC         CT         Sub- 1/18 at 1/18         QNC         CrC         LSC           9         8         5         22         5         13         24           2         2         0         4         100         2         2         6           0         0         0         0         0         1         7         8           0         0         0         0         1         7         8           0         0         0         0         1         7         8           2         2         0         4         100         1         7         8           0         0         0         0         0         1         0         4           2         2         0         4         100         1         2         4           0         0         5         5         100         0         0         0           0         0         0         0         0         0         0         0           0         0         0         0         0         0         0         0           0	Mapogen   Sam Ramon	Mapogon   San Ramon	Mapogon   San Ramon	Magogon	Mapogon	Maposon   San Ramon   Upland Total	Mapogon   San Ramon   Upland Total	Mapogen   Sam Barrion   Upland Total

Table G.8.46 Potential Site of the Nucleus Farm, Magogon and San Ramon Upland Model Project Areas

-			,											a of Res	pondents)	<u> </u>
												Ugli	and Tetal			
O/C	L/SC	CT .	Sub- total		OWC	O.C	L/SC	Ct	Sut⊩ total		ONC	O/C	L/SC	CT	Total	4
9	8		22		4	11	18	4	37		4	30)	26	9	59	
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	1	. 0	2	25	0	2	4	0	6	38	0	3	5	0	8	33
i	1	0	2	25	ò	ī	i	ō	2	13	Ō	. 2	ż	Ō	. 4	17
. 2	2	0	4	50	1	4	3	. 0	8	50	i	6	5	Ó	12	50
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1	0	0	· 1	20	0	0	- 1	0	ı	14	9	- 1	1	0	2	17
0	ı ı	0	1	20	Q	- 1	,	0	2	29	. 0	1	. 2	. 0	3	25
	. L	0	- 3	60	- 1	- 1	. 2	Ó	4	57	l l	3	3	Ó	7	25 58
0	0	2	2	40	0	0	U	2	2	50	0	0	0	4	4	44
0	. 0	3	. 3	- 60	0	0	. 0	. 0	Ó		Ö	. 0	0	3	. 3	33 22
. 0	0	0	0	0	0	0	0	2	2	50	0	0	0	2	2	22
3	1	2	6	150	ı	2	6	2	ii	24	1	5	. ,	4	17	25
Į.		3	7	175	0	3	4	0	6	13	0	3	. 7	3	13	13
5	4	. 0	9	225	3	7	В	2	20	43	3	12	12	2	29	43
	- 0/C	Magagin	Magagin   O'C   USC   CT	Magazene   Sub-   Mada	Magasana   Sub-   Listal	O'C USC CT Sub- tital  9 8 5 22 4  1 0 0 1 25 1 0 1 0 1 25 0 1 1 0 2 50 1 1 1 0 2 25 0 1 1 0 2 25 0 1 1 0 2 25 0 1 1 0 2 25 0 2 2 0 4 50 1  1 0 0 1 20 0 0 1 0 1 20 0 0 1 0 0 1 20 0 0 1 0 0 0 0 0  2 1 0 3 60 1  0 0 2 2 40 0 0 0 0 0 0 0 0 0 0 0 0  3 1 2 6 150 1 1 3 3 7 175 0	Magagein   Sub-	Mugagein   Sub-	Magrapho   San Ranom   OFC   USC   CT   Sub-   Intal   9   8   5   72   4   11   18   4	Magazerio   San Ranicis   San Ranicis	Magazero   San Ranson	Magaziro   San Ranion   San Ranion   ONC   USC   Cf   Sub-   Israel   ONC   OVC   USC   Cf   Sub-   Israel   ONC   OVC   USC   Cf   Sub-   Israel   ONC   OVC   USC   Cf   Sub-   Israel   ONC   OVC   USC   Cf   Sub-   Israel   ONC   Israel   ONC     I	Magazinn   San Ranion   Ugi	San Ranion   Cent : No.   Cont   Subsequence   Cent : No.   Cont   Cent : No.   C	Magazero   San Ranson   Wighter	San Ranion   Cont.   So it Responses   Cont.   So it Responses

O/C Owner/Cultivator
O/S/C Owner/Cultivator
L/SC Lessco/Sharecropper
CT Caretaker

Table G.8.47 Membership in Coconut Farmers Cooperative, Magogon and San Ramon Upland Model Project Areas

		Magogon			······	TOJECE		n Ramon						and Total	v. 44 KC	geoadents)	
hem	O/C	L/SC	СT	Sob- Total		ONC	O/C	L/SC	CT	Sub- Tलाओ	Œ.	OWC	O/C	L/SC	CT	Total	9
No. of Respondents	9	8	5	22			13	24	4	46			22	32	9	68	
Small Scale																	
Landou ners	1	0	0		25	1	0	0	0	1	9	1	1	0	0	2	13
Owner-cultivators and lessees	. 0	•	0	0		. 0	1	3	0	4	36	0	1	3	0	4	21
Owners and lessees	. 0	1	0		25 50	- 1	1	2	0	4	36	I.		3	0	5	3.
Actual cultivators	. 1	3	0	. 2	50	. 0	1	- 1	. 0	2	18	0	2	2	0	4	2
Medium Scale																	
Landowners	2	. 2	0	4	44	0	0	2	0	2	10	. 0	2	4	0	6	20
Ou per-cultivators and lessees	0	. 0	0	. 0	-	. 0	- 1	3	. 0	4	19	0	1	3	Ü	4	4.3
Owners and lessees	. 2	0	0	2	22	2	4	2	0	. 9	38	2	6	2	. 0	10	33
Actual cultivators	· 1	2	0	3	33	0	2	5	0	7	33	O	3	7	0	10	33
Large Scale												1					
Landowners	ı	0	0	i	25	0	0	1	0	1.	10	. 0	1 1		0	2	14
Owner-cultivators and lessees	0	0	0	0	-	0	0	. 0	. 0	. 0		O	. 0	0	. 0	0	
Owners and lessees	ı	1	0	. 2	50	1	2	2	. 0	5	.50	· .	. 3	- 3	0	7	50
Actual cultivators	. 0	1	. 0	1 1	25	0		3	0	4	40	G	1	1 4	0	5	36
Carctaket																	
Landewners	. 0	• 0	- 3	3	60	. 0	0	. 0	I	ŀ	25	. 0	. 0	. 0	4	4	44
Owner-cultivators and lessees	0	0	1	ŧ	20 20	. 0	0	. 0	0	0		0	0	0	11		- 0
Owners and lessees	0	. 0	1		20	. 0	0	. 0		· t	25	0	0	0	. 2	2	27
Actual cultivators	- 0	0	0	. 0		0	0	0	2	. 2	50	0	0	. 6	2	2	27
Total						•											
Landowners	4	. 2	3	. 3	41	Ł	o	. 3	1	5	11	3	4	5	, 4	14	. 21
Owner-cultivator/lessee	0	0	1		5	0	2	- 6	. 0	8	17	0	. 2	6	1	9	- 13
Owner and lessee	3	. 2	1	6	27	4	7	. 6		18	39	4	10	8	2	24	35
Actual cultivators	2	4	0	6	27	0	4	. 0	2	15	33	0	. 6	43	2	21	31

Nate:

O/C - Owner/Cultivator
O/NC - Owner/Cultivator
U/SC - Lessee/Shareer/oper
CT - Caretaker

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Table G.8.48 Concept on the Formation of Farmers Trust Association, Magogon and San Ramon Upland Model Project Areas

																			spondeni		
Untand T	Upl	Up	Upl	Ug	U	Ū	U	Up	Uot	Tota	otan	ian.	tand	and.	IN TH	अवर्ध					
ic us	OIC	O/C	O/C	OIC	O/C	OIC	OIC	O/C	Ĉ.			1	ŧ,	U	USC	~	Ċŧ	ť	Total	9	k
22	22	22	22	22	2	2	2.	22	22	22	2					12		9	68		_
4	4	4	4	4			4	4	4	4	4	ļ.				8		0	14		9
1	- 1	- 1	- 1	- 1				- 1	1	1	1	1				0		0	1		
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3	3	3	3	3	•	•	1	3	3	3	3	ι				3		Ó	7		•
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Small Scale
Reason: No management capability
Medium Scale
Reason: No management capability (2)
not responsible (1)
Large Scale
Reason: No management capability (2)
not responsible (1)
not responsible (1)

Table G.8.49 Management of Nucleus Farm, Magagon and San Ramon Upland

•	Model 1	rojec-	t Ar	eas										(Units : )	No. of Re	spondents	)
		Magogon				~ <b></b> _	<u>\$</u> :	n Ramon		<del></del>				and Total			
hem .	o/c	USC	CT	Sub- total	72	ONC	O/C	LISC	CŦ	Sub- total	7.	ONC	OXC	LSC	Cī	Total	1
No. of Respondents	9		5	22			10	21	. 4	39		4	19	29	9	61	
Small Scale																	
Land trust contract	0		0	1	25 75	0		2	0	3	30	. 0	. 1	3	0	4	. 29
Fixed tent	2	ı	0	3	75	2	1	4	. 0	. 7	70	2	3	5	0	10	71
Medium Scale																	
Land trust contract	2		0	3	33	. 0	2	3	0	5	28	. 0	4	4	0	8	.30
Fixed rent	3	3	0	6	67	2	· 4	7	0	13	72	2	7	10	0	19	70
Large Scale																	
Land trust contract	•	2	0	3	75	Ð	0	1	0		14	. 0	1	3	0	4	36
Fixed rent	ŧ	0	0	1	25	0	2	- 4	0	. 6	86	0	3	4	0	7	64
Carricko											•						
Land trust contract	0	• 0	3	3	60	0	O		3	. 3	75	. 0	0	. 0	6	6	67
िंत्रदर्वे स्टबर्स	. 0	0	2	2	40	Ō.	. 0	. 0	ı	1	. 25	0	. 0	. 0	3	3	33
Total																	
Land trust contract	3	. 4	3	10 12	45	. 0	• 3	6	3	12	31	0	6	10	6	22	36
Fixed rept	5	1 4	. 2	12	55	4	7	15		27	69	4	13	19	3	39	64

Table G.8.50 Concept on Collective Ownership of Nucleus Farm, Magogon and San Ramon Upland Model Project Areas

		Magngon					S	о Калоа		· · · · · ·				(Units : ? and Tota?			
Item	OC	₩SC	CT	Sub- total	4	ONC		USC	ĈŦ	Sub- total	~	ONC		LISC	CT	Total	Ł
No. of Respondents	9	8	5	22			- 13	24	. 4	46		5	27		9	68	
mall Scale																	
gree	2	2	0	4	100	1			. 0	6	60	1	3	6	. 0	10	- 3
isagree	0	0	0	0	•	1	\$	2	6	4	40		1	2	0	4	
ledium Scale																	
gice :	5	4	٥	9	100	1	4	8	0	13	76	. 1	9	12	. 0	22	
isagree .	0	9	0	0	-	0	2	. 2	0	4	24	o	2	2	0	4	
arge Scale	_						_										
groe	2	7	0	•	100	ļ	. 3	3	q	6	75		4		0	10	
isagree	U	19	v	0	•	U	. 0		u	. 2	25	9	0	2	0	2	
arciaker		0			50	0	0				***						
gice Visagroe	×	0	•	- ;	20	ň	ŏ		,		75 25	, v	· v	, , , , , , , , , , , , , , , , , , ,		- 4	
ssaface.	·	U	•	•	20		v		•	•	43	v	v	**		•	•
Haf : Agree				21	95		,	15		20						42	
Distrete	,	. 6			. "	- 1	, <u>,</u>	.,,		28 11	61 24		16	23	- 4	49 12	
is response	. *	v	'	,	,	1	. 3	3		, ;	15	1	3	î			

O/C - Owner/Cultivator
O/C - Owner/Cultivator
U/SC - Caretaker

O/C - Caretaker

Small Scale
Reason Restriction in personal intensions (1)
Difficulty in organization (1)
Medium Scale
Reason Restriction in personal intensions (4)
Large Scale
Reason. Difficulty in organization
Caretaker
Reason: Restriction in personal intentions

Table G.8.51 Required Government Support for the Establishment of a Nucleus Farm, Magogon and San Ramon Upland Model Project Areas

				Ma	gog.	O D												Sar	Ra	mon							
Iwm		ΟC			ÚŠČ			CT		S	ub-10	tal		O/N	C		OXC			L/SC	?		Ċî		S	บ 5- น	xal
No. of Respondents		9		*·	8			5			22			. 5			13			24			4			42	
Rapk	l st	2nJ	3rd	151	2nd	3(1	l st	2ก๕	3rJ	lst	2nd	3:4	181	2nd	3/1	19	2pd	Md	Işt	2nd	3rJ	lst	2nJ	3:0	151	2nd	3rd
Small Scale																											
Farm infrastructure devit	0	0	0	ı	0	O	0	0	0	ı	0	Ο.	0	2	0	0	0	0	3	0	0	0	0	0	3	2	0
Marketing support	Ó	0	- L	0	1	0	0	0	Û	0	1	ı	0	0	2	0	0	3	0	0.	0	0	0	0	0	0	5
Ecchnical support	0	1	0	0	0	0	0	0	٥	0	1	0	0	0	0	0	2	0	0	3	0	0	0	0	0	5	0
Financial support	ŧ	0	0	0	0	1	0	0	٥	ı	0	ı	2	0	0	2	0	0	0	0	3	0	0	0	4	0	3
Medium Scale																											
Farm infrastructure dev't	3	0	0	2	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	O-	0	0	0	0	0	0
Marketing support	0	0	0 .	Ò	0	3	0	0	٥	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	Ł	0	. 0
Technical support	0	0	2	0	0	3	0	0	٥	0	0	2	0	0	•	0	0	0	٥	0	0	0	0	0	0	0	ı
Financial support	. 0	2	0	0	2	O-	0	0	٥	0 '	4	0	0	- 1	0	0	Û	0	0	0	. O	0	0	0	Ç.	1	0
Large Scale	-											:															
Farm infrastructure dev't	1	0	0.	ı	0	O	0	0	0	2	0	0	. 0	0	0	3	0	0	3	٥	0	0	0	0	6	0	0
Marketing support	Ò	o	i.	0	0		0	0	Ó	0.	0	2 .	0	ı	- t	0	0	0	0	0	0	0	0 -	0 .	0	,	1
Technical support	ō	Ī	0	0	0	0	0	0	0	0 -	1	0 -	. 0	0	0	0	2	3	0	o	2	0	0	0	0	2	5
Financial support	õ	ō	ō	ō	1	Õ	0	0	0	Ô	1	0	1	0	ō	0	0	0	0	3	0	0	0	0	- 1	3	0
Carctaker	7																										
Farm infrastrycture dev't	0	0	0	0	0	0	1	o	o	- 1	0	0	0	0	0	0	0	0	0	0	0	0 :	0	0	0	0	Q
Marketing support	ŏ	ō	ō	ō	ō	ō	0	0	0	0	0	0	0	0	ō	0	0	0	0	0	Ō	2	0	0	2	0	0
Technical support	ò	Ó	ō	0	0	0	0	0	Ĺ	0	0	i	0	0	0	0	0	0	0	0	0	0	0	4	0	0	- 4
Financial support	0	0	0	Ō	0	0	0	3	0	0	I	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0
Total																											
Farm infrastructure dev't	4	0 -	0	4	0	0	3	0	0	9 -	0	0 -	0	2	0	3	0	0	6	0	Q·	0	0	0	9.	2	0
Marketing support	Ó	o	2	o	1	4	0	0	0	0	1	6	1	i	3	Ö	0	3	0	0	0	2	0	0	3	Ł	6
Technical support	ō	2	2	0	1	o	ō	ō	ı	Ð	2	3	0	0.	ı	0	4	3	0	. 3	2	0	0	4	0	7	10
Financial support	ī	2	ō	ō	3	i	0	1	0	ı	6	113	3	ŧ	0	2	Ð	0	0	3	3	0	3	0	5	7	3
																											<b></b>
	5	4	4	4	4	- 5	-1	-1	1	10	9	10	4	4	4	5	4	6	6	6	5	2	. 3	4	17	17	19

Table G.8.52 Potential Economic Enterprises that can be Managed by Cooperative, Magogon and San Ramon Upland Model Project Areas

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No. of Respondents		9			8	<del></del>	<del>-</del> -	5						- 5		<u> </u>	13			24	<del></del>		4			46	_
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oconut oil processing	ō	ŏ	2	ō	ŏ	2	ō	Ü	0	ò	ò	ă	ŏ:	ŏ	ŏ	4	ě	õ	3	. 2	ŏ	ŏ	ŏ	ŏ	ž	2	
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	6	6	5	6	4	4	. 2	2	2	14	12				2 .	7	6	9	6	<b>‡</b> 2	-11		- 2		17	22	

O/C Owner/Cultivator
O/NC Owner/Non-cultivator
U/SC Lessee/Sharecropper
CT Caretaker

Table G.8.53 Summary of Issues and Concerns Related to Project Implementation, Mazogon and San Ramon Upland Model Project Areas

				Project Implementation Issues Raised	ect Implementation Requirements/ Issues Raised		Proposed ConceptaTssues Raised	ssues Raised		
Model Area	Date	Venue	Number of	Formation /	Intensification	Improved	Barangay	Developement of	Organization	Other Issues
Barangay			Participants	Strengthening of	of Inter-	Practices in	Cluster	Nucleus Farm	of Landless	and Concerns
				Farming Markebing	cropping	Upland	Formation		Farmers	
				Service Cost		Management				
									***	
a) Magogon	11-141-96	Magogon	49	generally	generally	" generally	* generally	generally	enerally	none
		Elementary		acceptable	acceptable	acceptable	acceptable	acceptable	acceptable	
		School							-	
				- institutional	- avaitability	avaitability	- availability of	· identification	in and any	
				strengthening	of high	of technical	the center	of possible		
				program for	quadity	assistance		s)ic		To Today
	_			the cooperative	speeds		- housing			
	:			officers and			scheme and			
	,			member			other amenities			
b) San Ramon	19-Jul-96	Residence	Š	generally .	generally	* generally	not applicable	* generally		formation of
		of Kagawad		acceptable	acceptable	acceptable		acceptable		association and
		Ely Mejedena						- possibility to		venturing into
		of Purok 4		- institutional				include other		collective farming
<del></del>				development to				sites as nucleus		are acceptable
				be an important				farms		
		-		aspect of the	in Printer			- availability of		
	-			рюдгат				planting		
								materials		
	-							- individual farm		
								uting would		
								sull be observed		
	di na Sara							- allotment of		
								1,000 sq m of	<b>W</b>	
			: -					land by each		
		:						member for the		
		••••						nucleus farm		
								will not be a		
•								problem		

Table G.9.1 Devolved Basic Services and Facilities by Level of LGU (1/2)

Services	Barangay	Municipality	Province	City
I. Agricultural and Fishery Extension	a. Distribution System for inputs. b. Operation of warehouses and Buying Stations.	a. On-site research through dispersal of livelihood, poultry, fingerlings, and other seeds.  b. Establishment and maintenance of seed farms for palay, com, vegetables, coconut, fruit trees and other crops.  c. Quality control for copra and improvement of distribution channels through cooperatives.  d. Maintenance and operation of inter-barangay irrigation systems.  e. Water and soil resource utilization and conservation.  f. Implement fishery laws and conservation of mangroves in municipal waters.	a. On-site research for prevention and control of plant and animal pests and diseases. b. Establishment and maintenance of dairy farms, livestock markets, animal breeding stations, and artificial insemination centers. c. Assistance in the organization of farmers cooperatives. d. Transfer of appropriate technology,	
II. Environment	a. General hygiene and sanitation, including beautification and solid waste collection.	a. Subject to control and supervision of DENR, implementation of: i. integrated social forestry ii. communal forests of < 50 square kilometers; and iii. tree parks, green belts, and similar forest projects.	a. Subject to control and supervision of DENR, implementation of: i. community-based forestry projects: ii. pollution control laws; iii. small-scale mining law; and iv. mini-hydroelectric project.	
III. Infrastructure [Economic and social]	a. Maintenance of barangay roads, bridges and water supply systems, b. Multi-purpose hall, multipurpose pavement,	<ul> <li>a. Construction and maintenance of:</li> <li>i. municipal roads and bridges;</li> <li>ii. communal irrigation, and small water impounding projects;</li> </ul>	a. Construction and maintenance of: i. provincial roads and bridges; ii. intermunicipal waterworks. drainage, sewerage, flood control, and irrigation	a. Communication and transport facilities.
	plaza and satellite public market. c. Barangay health and daycare centers.	iii. artesian wells, spring development, rainwater collectors and water supply systems; iv. seawalls, dikes, drainage and sewerage and flood control;	systems; iii. reclamation projects; iv. intermunicipal telecommunication services; v. hospitals; and vi. low-cost housing except those funded by SSS. GSIS and HDME.	

Table G.9.1 Devolved Basic Services and Facilities by Level of LGU (2/2)

Services	Barangay	Municipality	Province	City
		v. fish ports: vi. school buildings for public elementary and secondary: vii. clinics and health centers: and viii. public markets, slaughter houses and other economic enterprises.		
IV. Health and welfare		a. Primary health care, maternal and child care and communicable disease control services. b. Secondary and tertiary health services. c. Purchase of medicines, medical supplies and equipment. d. Nutrition and family planning	a. Welfare for rebel returnees and evacuees, relief operations and population services.	
		scryces. e. Livelihood and welfare programs for youth, children, women, elderly vagrants, beggars, and juvenile delinquents. f. General hygiene and sanitation [e.g. solid waste management].		
V. Support services		a. Investment and job placement, tax and marketing information systems and public library.	a. Investment, access to credit financing and tax information.	
VI. Peace and order VII. Others		<ul><li>a. Sites for police, fire stations and municipal jail.</li><li>a. Construction, operation and</li></ul>	a. Planning and implementation	a. Facilities for education police, and fire protection.
Source: Rules and Implementing Guidelines of the l of 1991 Republic Act No. 7160 Note: All facilities provided by municipality and pre	nting Guidelines of the ct No. 7160 by municipality and p	of tourism facilities. Local Government Code province also apply to city.	SSS - Social Security System SSIS - Covernment Service Insurance System GSIS - Home Mutual Development Fund	

## Table G.9.2 Agencies and Institutions Responsible for Operation and Maintenance of Facilities

Physical Facilities	Agency/Organization
I. Model Development Projects	
Camalig Diversion Lowland Model Development Proje	ct
(1) Irrigation	ISA Camalig
(2) Drainage Facilities	DPWH
(3) Rural roads	PEO/MEO
(4) Level-II water supply, Gotob	Gotob RWSA
(5) Hand tractor, Thresher, Rice mill and dryer	ISA Camalig
Dam No. 2 Lowland Model Develoment Project	
	ISA Dam No. 2
(1) Irrigation except dam and reservoir	
(2) Dam and reservoir	PEO
(3) Drainage facilities	DPWH
(4) Watershed	DENR/PENRO
(5) Hand tractor, Thresher, Rice mill and dryer	ISA Dam No. 2
(6) Level-II water supply, Inarado	Inarado RWSA
3. Magogon Upland Model Development Project	
(1) Rural road	PEO/MEO
(2) Inter-village and farm roads	Magogon Farmers' Multi-Purpose Cooperative
(3) Deep well rural water supply	Barangay council, Magogon
(4) Nucleus nursery	Magogon Farmers' Multi-Purpose Cooperative
(5) Rice and corn mill, feed mill Drying floor, warehouse and poultry cage	Magogon Farmers' Multi-Purpose Cooperative
(6) Handicraft sub-center	Magogon Farmers' Multi-Purpose Cooperative
4. San Ramon Upland Model Development Project	
(1) Rural road	PEO/MEO
(2) Inter-village and farm road	CARP Beneficiary Organization
(3) Deep well, rural water supply	Barangay council
(4) Production farm and facilities	Association of Landless
	CARP Beneficiaries Association
(5) Nucleus farm and facilities	
(6) Small water body	CARP Beneficiaries Association
If. Rural roads	PEO/MEO
ill. Level -II water supply Taladong and Gabawan	Taladong and Gabawan RWAs
IV. Integrated Support Services Project	
Extension facilitties for FTC/BUCAF	DA/BUCAF
2. Extension facilities for PAS	PAS
3. Extension facilities for Camalig and Daraga MAS	Camalig and Daraga MAS

Table G.9.3 Staffing Pattern for the Project Management Unit

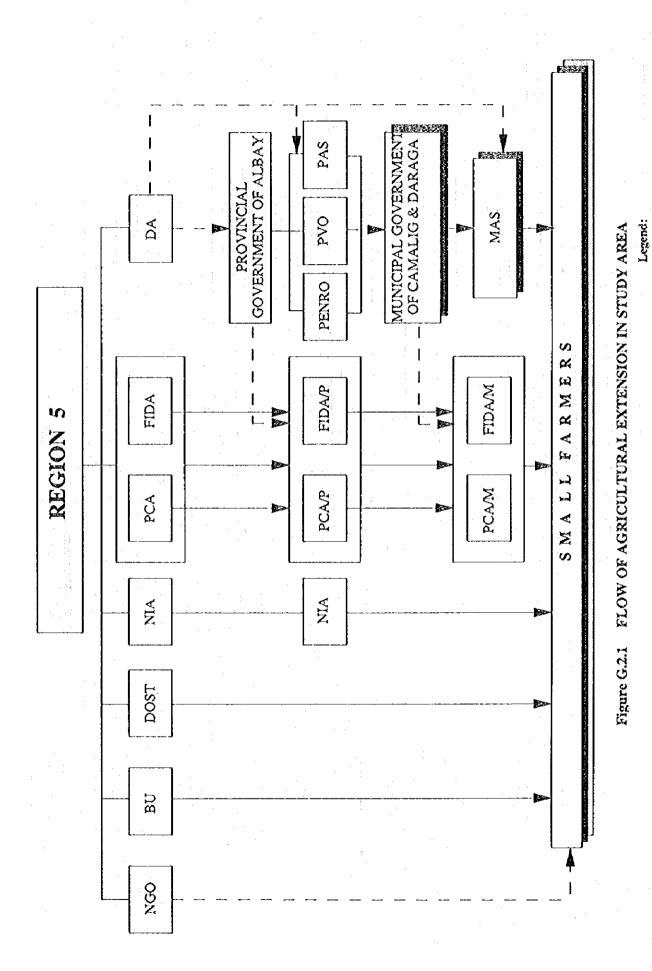
	Position Title	Salary Grade	Number	Status	Agency
Α.	Management				
	Project Manager	26	1	Detail	NIA
	Secretary	7	. 1	Hire	
-	Driver	3	1	Hire	
В.	Engineering Division	4			
	Engineer IV	22	. 1	Detail	NIA
	Engineer III	19	3	Detail	PEO
	Engineer II	16	2	Detail	MEO
	Foreman	8	3	Hire	
	Draftsman	8	1	Hire	
	Heavy Equip. Operator	4	3	Detail	PEO/NIA
	Driver	3	2	Hire	
Ç.	Agricultural Support Division				
	Supervising Agriculturist	22	· 1	Detail	PAS
	Senior Agriculturist	18	. 4	Detail	MAS/NIA
	Agricultural Technologist	10	2	Detail	FIDA/PCA
	Driver	3	1	Hire	
D.	Institutional Development Division				
	Institutional Development Chief	22	. 1	Detail	NIA
	Sr. Training Officer	18	1	Detail	ATI/BUCAF
	Institutional Development Officer	12	3	Hire	
: -	Driver	3	1	Hire	
E.	Planning & Monitoring		1		
٠	Development Management Officer	22	. 1	Detail	PPDO/NIA
	Project Evaluation Officer	18	2	Detail	MPDO
	Statistician	15	1	Detail	PPDO
	Driver	3	i	Hire	
E.	Administrative Division			٠	
	Administrative Officer	22	. 1	Detail	PGA
	Accountant III	18	1	Detail	PGA/NIA
	Cashier	18	. 1	Detail	PGA
	Records Officer	: 14	. 1	Detail	PGA
	Supply Officer	14	: 1	Detail	PGA
	Accounting Clerk	6	2	Detail	PGA
	Clerk	6	4	Hire	
	Canvasser	4	1	Hire	
	Utility Worker	2	1	Hire	

Table G.9.4 Financial Requirement for Salaries and Other Expenses for Personnel of the Project Management Unit

	:	•					-									
Desirion Title	Calary	Salary Number Status	Status	Avenev	Ä	Monthly Slary		Total	PERA.	Total Compensation	onsation	Bonus	Productivity	Clothing	Honoraria	Annual
2117 101110 1	Crade				Basic	20%	Adjusted	·	ACA other	Monthly	Annually	and	Icenuve	Allowance		Requirement
	}			÷		Premium			allowance		•	Cash Gift	Benefit			
									ctc.							
A. Management	ì			12.	00 007 01	00 000 6	32 206 80	21 208 80	00000	24 708 80	207 585 60	24 398 X0	3,000,00	3,000,00		326,984.40
Project Manager	q .	-	Ciali	Ç	2000	1 400 20	8 455 20	× 455 20	400 00	9.855.20	118,262,40	9.455.20	2,000.00	3,000,00		132717.6
Secretary	- (*		i i		328.00	1.045.60	6.273.60	6.273.60	1,400.00	7,673.60	92,083.20	7,273.60	2,000.00	3,000.00		104,356.80
3	ì		į				•									
B. Engineering Division	:						-		:							
Engineer IV		_	Detail	Ϋ́	16,667.00	3,333,40	20,000.40	20,000.40	1,400.00	21,400,40	256,804.80	21,000.40	2,000.00	3,000,00		282,805,20
Engineer III	61	٣	Detail	PEO	14,538,00	2,907.60	17,445,60	52,336.80	4,200.00	56,536.80	678,441.60	55,336.80	6,000.00	00.000.6		748,778.40
Engineer II	91	<b>C</b> 4	Detail	MEO	12,206.00	2,441.20	14,647.20	29,28,40	2,800.00	32,094,40	385,132.80	31,294,40	4,000.00	6,000.00		426,427,20
Foreman	οc	۲۰,	Hire		7,540.00	1,508.00	9.048.00	27,144,00	4,200.00	31,344.00	376,128.00	30,144,00	6,000.00	9,000.00		421,272,00
Desfreman	÷	, <u>-</u>	Hire		7,540,00	1,508.00	9,048.00	9,048,00	1,400.00	10,448.00	125,376.00	10,048.00	2,000.00	3,000.00		140,424,00
Heavy Equip Operator	4	٠,٠	Cera	PEONTA	5.646.00	1,129,20	6,775.20	20,325,60	4,200,00	24,525.60	294,307,20	23,325.60	6,000.00	9,000.00		332,632,80
Driver	(P)	, (1	Hire		5,228.00	1,045.60	6,273.60	12,547.20	2,800.00	15,347,20	184,166.40	14,547.20	4,000.00	6,000.00		208,713.60
			٠.													
C. Agri, Support Division	. •												. •			
	53		Detail	PAS	16,667.00	3,333,40	20,000,40	20,000.40	1,400.00	21,400.40	256,804.80	21,000.40	2,000.00	3,000.00		282,805,20
Smior Approximate	DC	7	Detail	MAS/NIA	13,715.00	2,743.00	16,458.00	65,832.00	5,600.00	71,432.00	857,184,00	69,832,00	8,000.00	12,000.00		947,016.00
Amonitoral Technologist	9	c	Derail	FIDAPCA	8.605.00	721.00	10,326.00	20,652.00	2,800.00	23,452.00	281,424.00	22,652.00	4,000.00	6,000.00		314,076.00
Dawr	٠,	۱	Hir		5.228.00	1.045.60	6.273.60	6,273.60	1,400.00	7,673.60	92,083,20	7,273.60	2,000.00	3,000.00		104,356.80
5417	,		Ì													
D. Institutional Dev't Division												:				
	23	_	Detail	VIX	16,667.00	3,333,40	20,000.40	20,000.40	1,400.00	21,400.40	256,804.80	21,000,40	2,000:00	3,000.00		282,805.20
Sr Training Officer	×			ATT/BUCAF	13,715.00	2,743.00	16,458.00	16,458.00	1,400.00	17,858.00	214,296.00	17,458.00	2,000.00	3,000.00		236,754.00
Institutional Dev. Officer	<u>:</u>	•			00.899.6	1,933.60	11,601.60	34,804.80	4,200.00	39,004.80	468,057.60	37,804.80	6,000.00	9,000.00		520,862,40
Dave	<b>67</b>		Hire		5,228.00	1,045.60	6,273,60	6.273.60	1,400.00	7,673.60	92,083.20	7,273.60	2,000.00	3,000.00		104,356.80
			-													
E. Planning & Monitoring			_			:		٠,						:		
	ij		Detail	PPDOMIA	16,667.00	3,333,40	20,000.40	20,000.40	1,400.00	21,400.40	256,804.80	21,000.40	2,000,00	3,000.00		282,805.20
Project Evaluation Officer	18	н	Detail	MPDO	13,715.00	2,743.00	16,458.00	32,916.00	2,800.00	35,716.00	428,592.00	34,916.00	4,000.00	6,000.00		473,508.00
Szatistician	15	-	Detail	PPDO	11,515.00	2,303.00	13,818,00	13,818.00	1,400.00	15,218.00	182,616.00	14,818.00	2,000.00	3,000.00		202,434,00
Driver	64)		Hire		5,228.00	1,045.60	6,273,60	6,273.60	1,400.00	7,673.60	92,083.20	7,273.60	2,000.00	3,000.00		104,356.80
		٠					:		٠.				:			
F. Administrative Division						-							0000	00000		00 500 404
Administrative Officer	ដ		Detail	PGA A	16,667.00	3,333,40	20,000.40	20,000.40	1,400.00	21.400.40	256,804.80	21,000.40	2,000.00	3,000,00		07.506,252
Accountant III	œ.	<b>~</b> 4	Detail	PGAMIA	13,715,00	2,743.00	16,458.00	16,458.00	1,400.00	17,858.00	214,296.00	17,458,00	200000	3,000.00		26.724.06
Cashier	87		Detail	Ą	13,715.00	2,743.00	16,458.00	16,458.00	1,400.00	17,858.00	214,296.00	17,458.00	2,000.00	3,000.00		2,50,7,50,00
Records Officer	7		Detail	₹ S	10,863.00	2,172.60	13,035.60	13,035.60	1,400.00	14,435.60	173,227.20	14,035.60	2,000.00	3,000.00		192,262.80
Supply Officer	4		Detail	Š	10,863.00	2,172.60	13,035.60	13,035.60	1,400.00	14,435.60	173,227,20	14,035.60	2,000.00			192,202.30
Accounting Clerk	ý	(1)	Octail	&A	6,585.00	1317.00	7.902.00	15.804.00	2,800.00	18,604.00	223,248.00	17,804.00	00000			251,052.00
Clerk	φ	4	Hire		6,585.00	1,317.00	7,902.00	31,608.00	5,600.00	37,208.00	446,496.00	35,608.00	8,000.00	12,000.00		502,104.00
Canvasser	4		Hire		5,646.00	1,129.20	6,775.20	6,775.20	1,400.00	8,175,20	98,102,40	7,775.20	2,000.00			110,877.60
Utility Worker	rį	-	Hire	•	4,796.00	959.20	5,755.20	5,755.20	1,400.00	7,155.20	85,862.40	6,755.20	2,000.00	3,000.00		97,617.60
HONORARIA		.							-						400,000.00	400,000,00
TOTAL		:	•		327,191.00	65,438.20	392,629,20	611,056.80	70,000.00	681,056.80	681,056.80 8,172,681.60	661,056.80	661,056.80 100,000.00	150,000.00	400,000.00	9 483,738,40

## THE FEASIBILITY STUDY ON THE WESTERN LEGAZPI IRRIGATION AND RURAL DEVELOPMENT PROJECT IN THE PHILIPPINES

**FIGURES** 



Coordination/Staff Support Line/Direct Supervision

G - 115

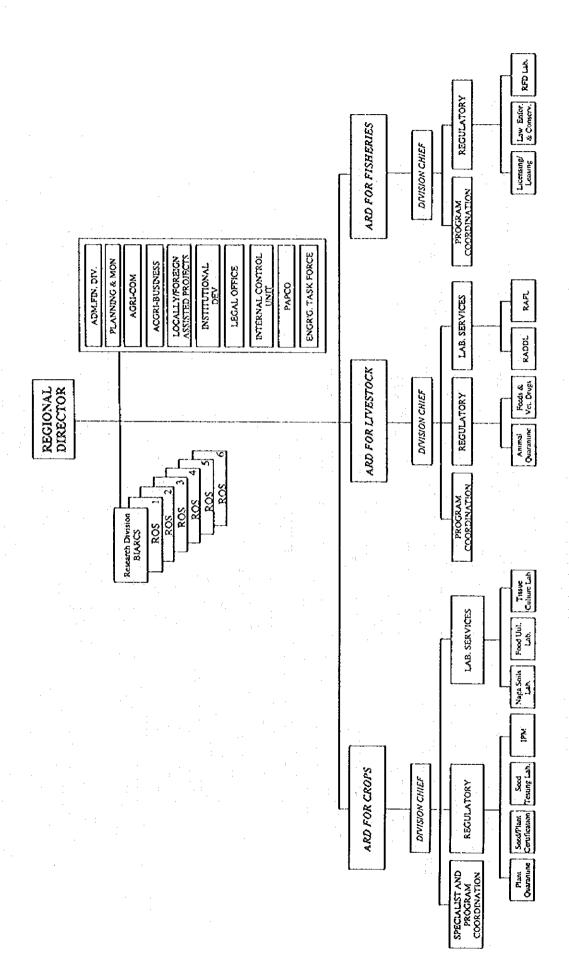


Figure G.2.2 DA REGIONAL FIELD UNIT NO. 5

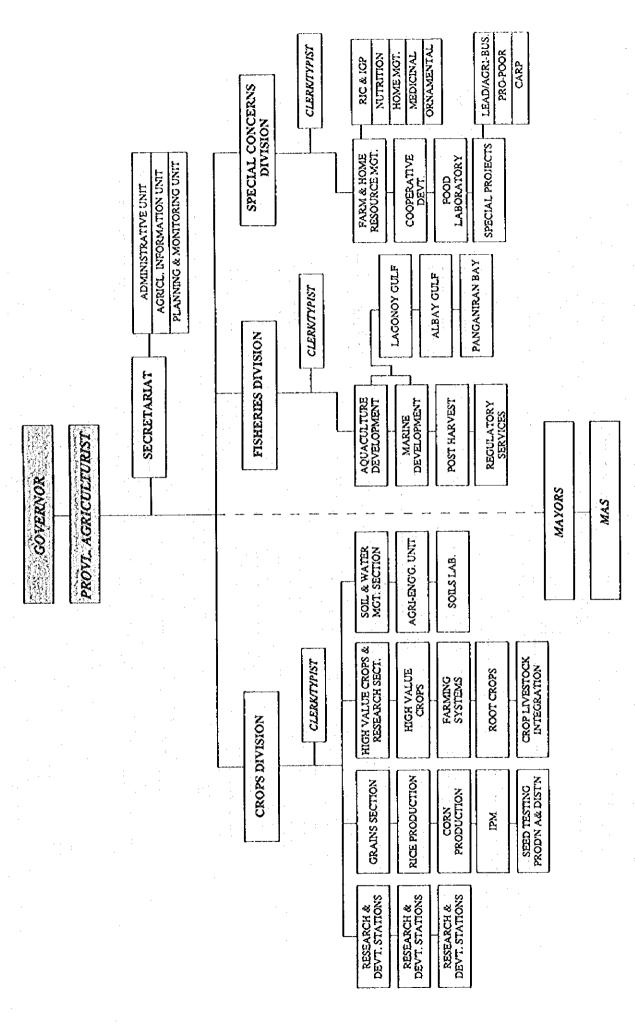


Figure G.2.3. PROVINCIAL AGRICULTURAL SERVICES

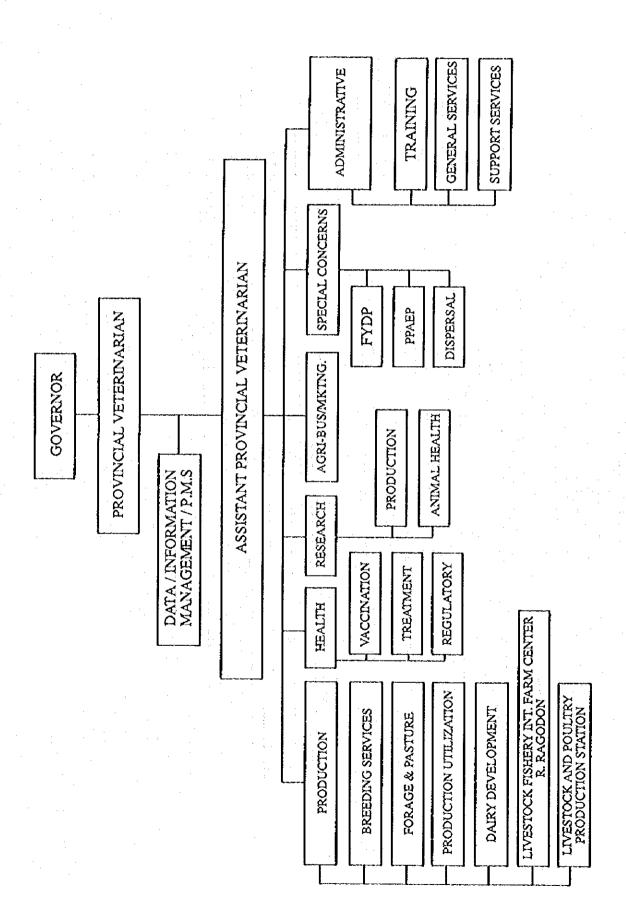


Figure G.2.4 Provincial Veterinary Services

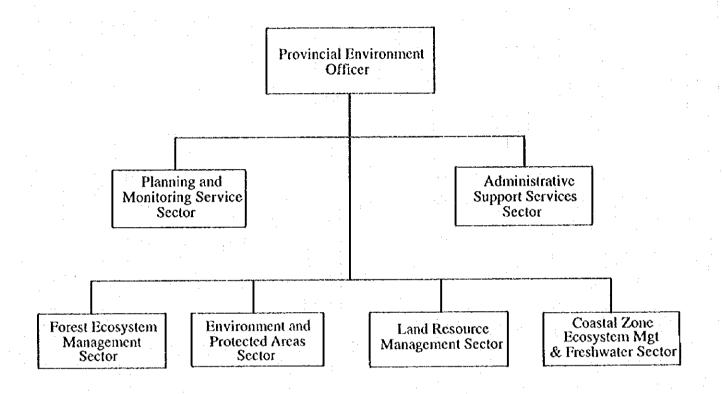


Figure G.2.5 Provincial Environment Services

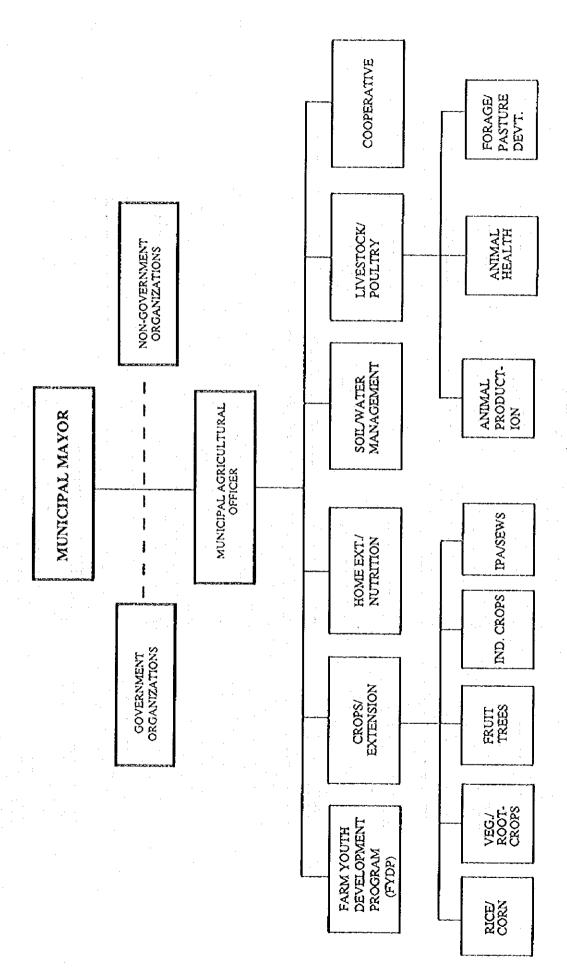


Figure G.2.6 Municipal Agricultural Services Camalig and Daraga

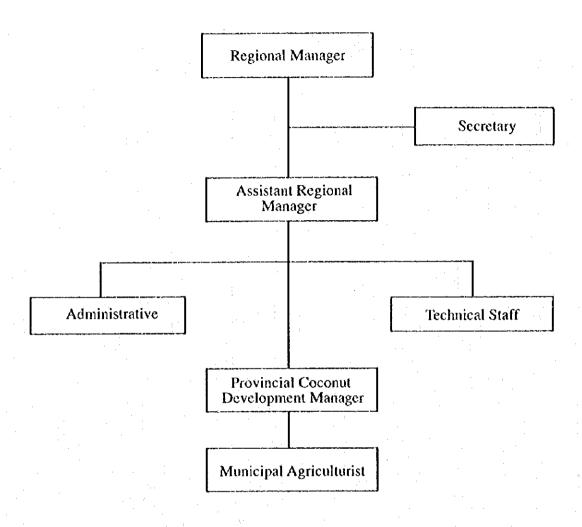


Figure G.2.7. Philippine Coconut Authority
Region 5 and Province of Albay

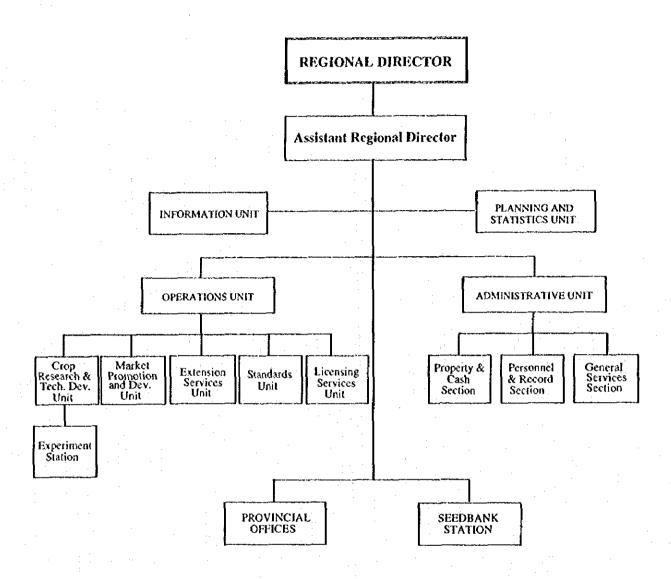


Figure G.2.8 Fiber Industry Development Authority

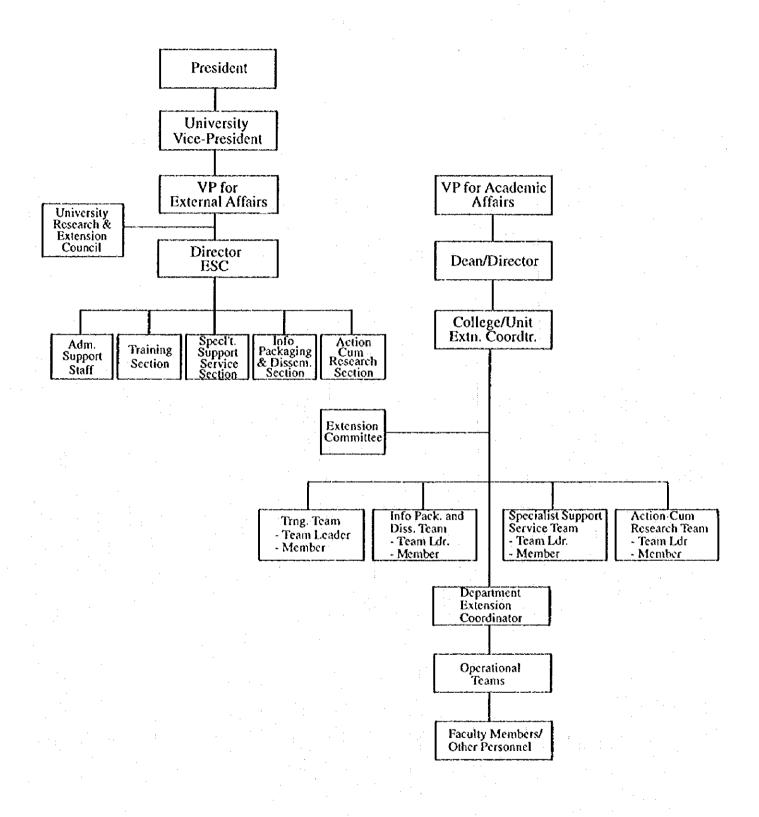


Figure G.2.9. Bicol University

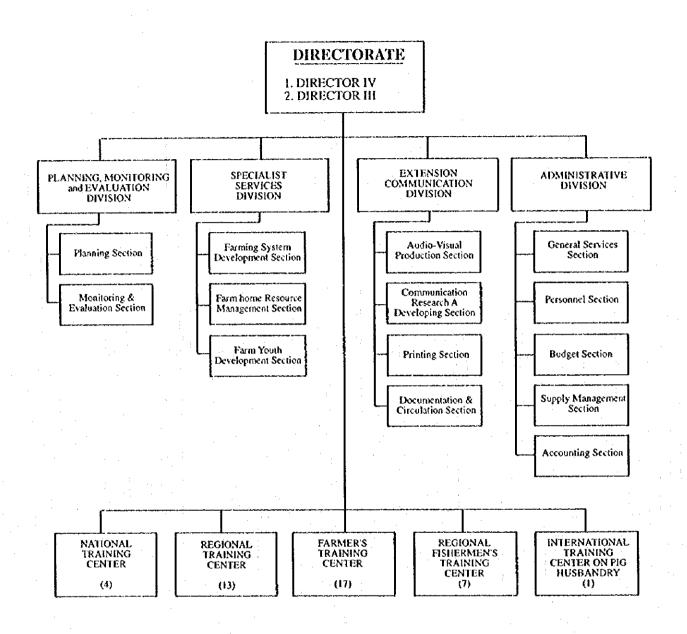


Figure G.2.10 Agricultural Training Institute

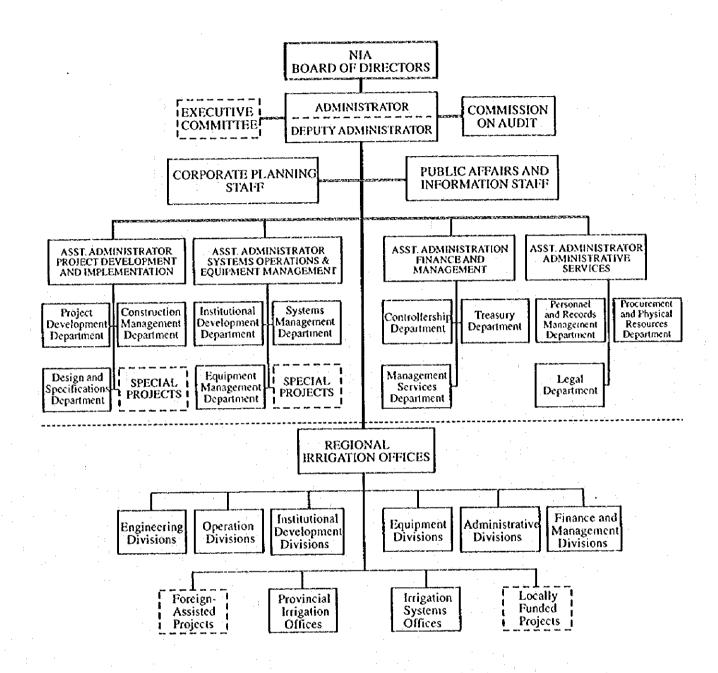


Figure G.2.11 National Irrigation Administration

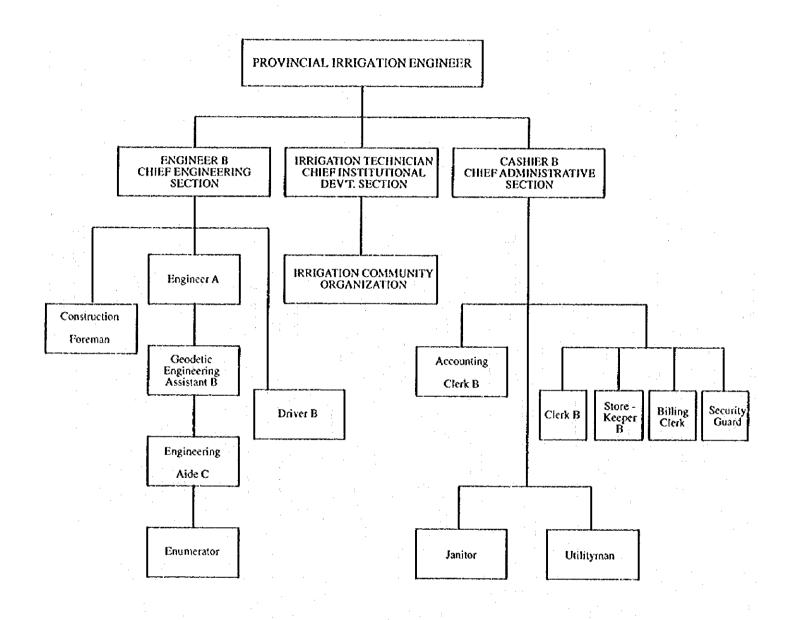


Figure G.2.12 Provincial Irrigation Office, Albay

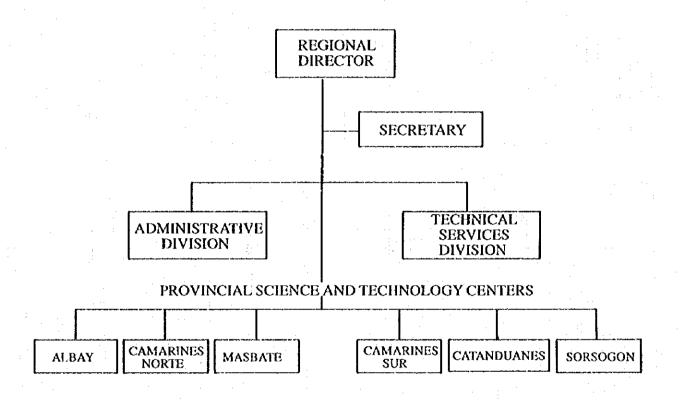


Figure G.2.13 Department of Science and Technology

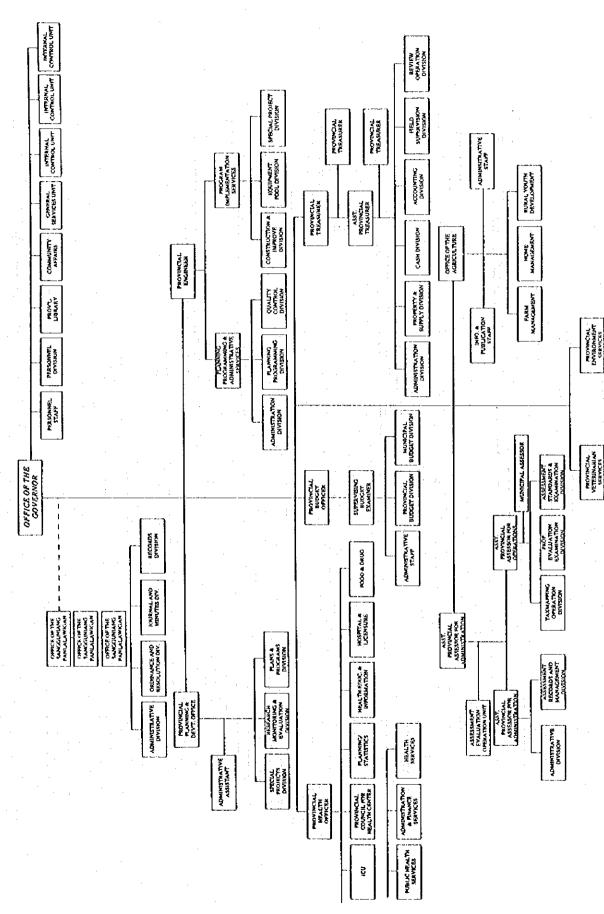


Figure G.2.14 PROVINCIAL GOVERNMENT OF AL ALBAY

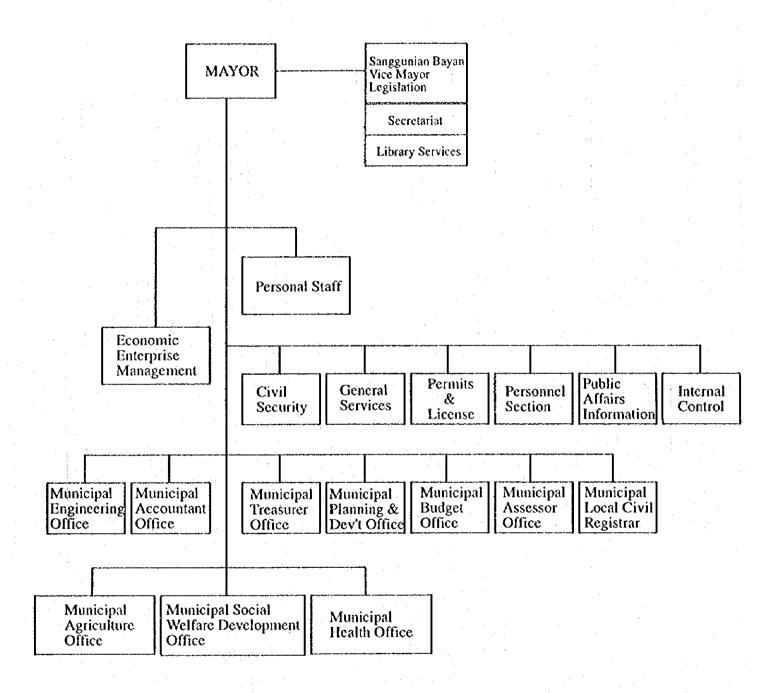
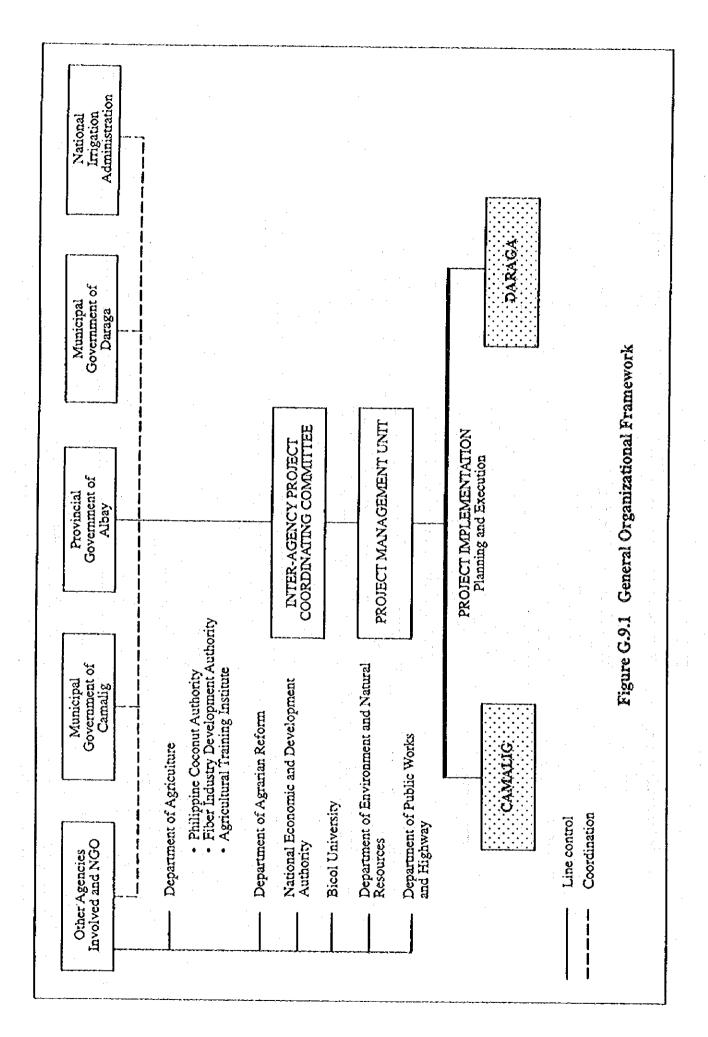
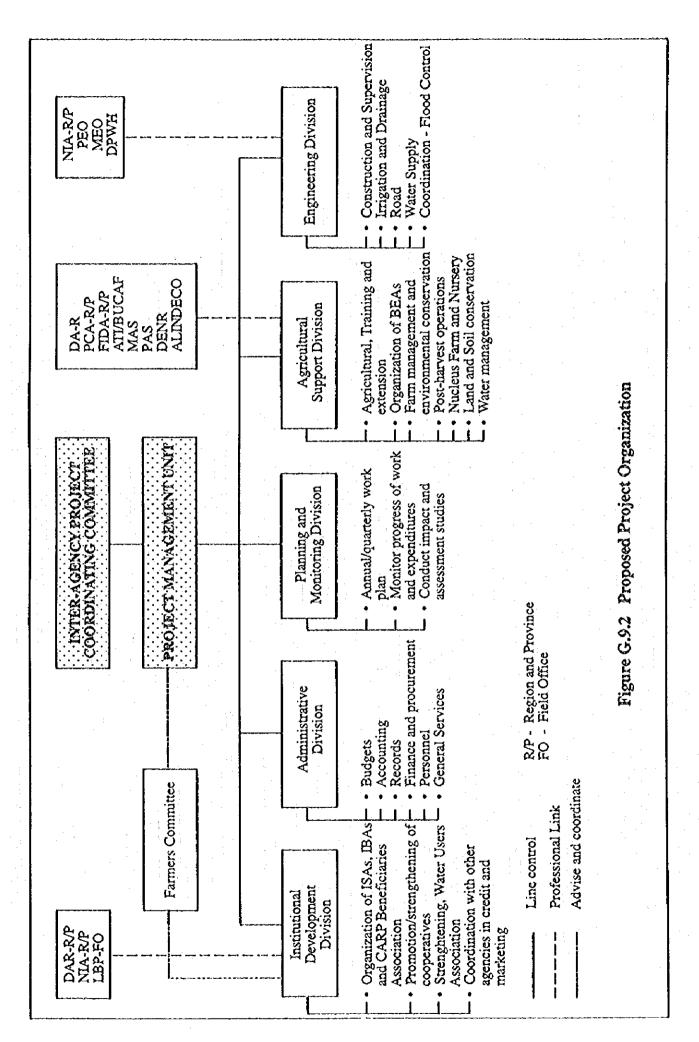


Figure G.2.15 Municipal Government Camalig and Daraga





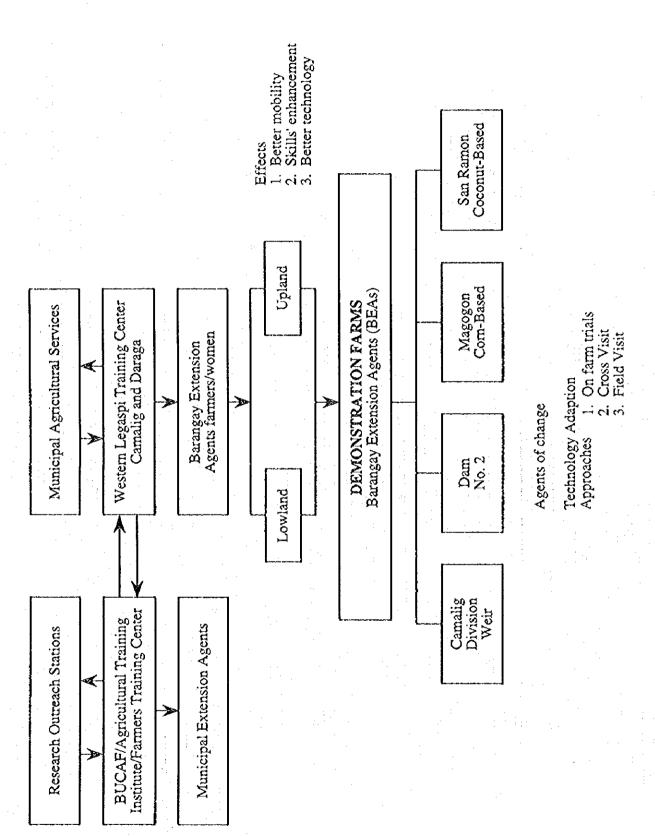
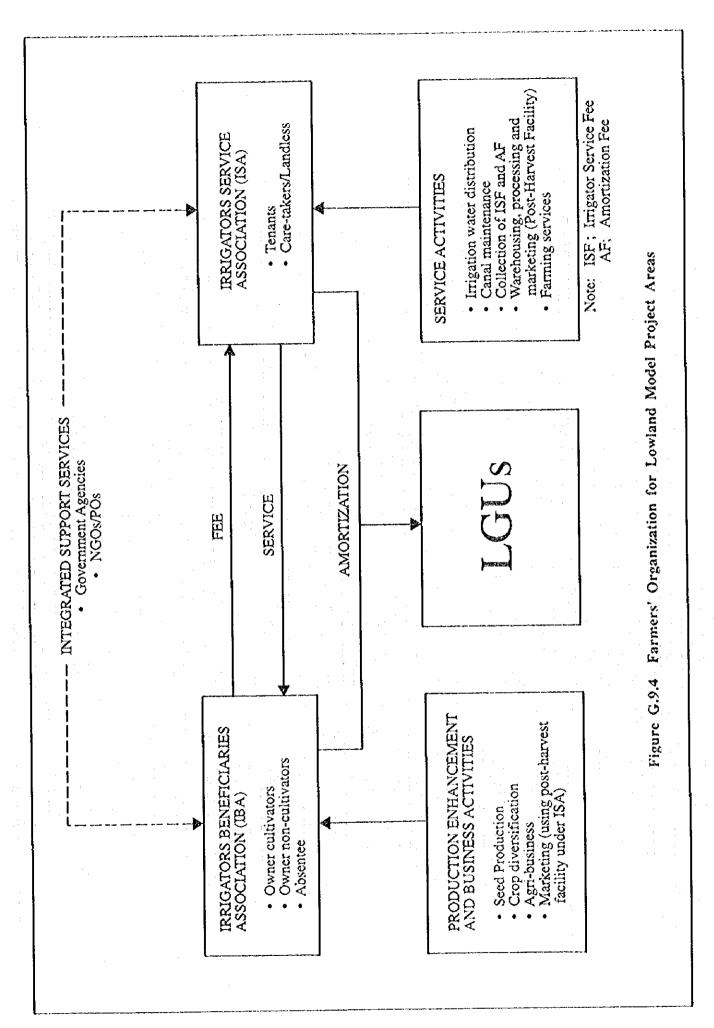


Figure G.9.3 Framework for Strengthening Agricultural Extension and Research



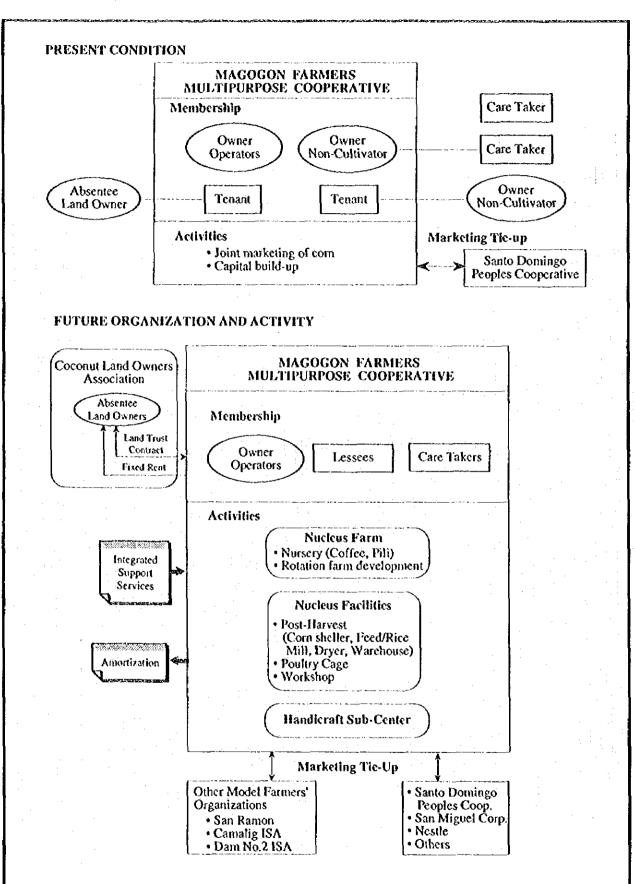
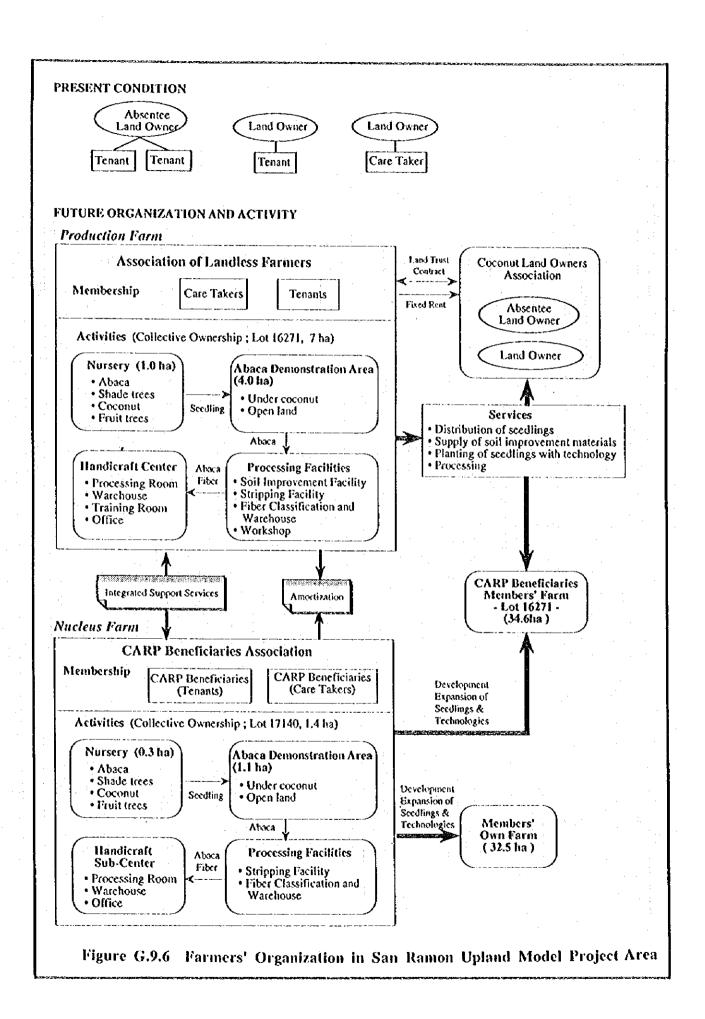


Figure G.9.5 Farmers' Organization in Magogon Upland Model project Area



igure G 9.7 Implementation Schedule for the Western Legazpi Irrigation and Rural Development Project

Description	Oty Unit law Year	2nd Year	3rd Year	4th Year	Sth Year
l Project Preparation	1 2 3 4 5 5 7 7 9 10 11 21 12 13 14 13 14 1	7) 1X 19/20 21/22/23/24	5  26  27  28  29  30  31  32  33  34  35  36	37 38 39 बता या बड़ा बड़ा बब वड़ा बब बड़ा	48 49 50 51 52 53 54 55 56 57 58 99 60
1.1 Establishment of Project Implementation Organization Project Management Unit					
Inter-Agency Project Courtmann Commune 12 Fund Arrangement on Project Intolementation					
1.2 Coordination with Farmer Beneficiaries					
Public Consultation					
Preliminary Set-Up for Farmers Organizations					
11 Implementation of Model Rural Development Projects					
2.1 Lowland Model Rural Development Project					
(1) Pre-Construction Niege Detailed Design & Preparation of Tender Document					
Per-qualification of Contractions Tracker & Aument					
Land Acquisition Program					
(2) Construction State.					
Camaig Drycesion Lowland Model Bracer, Preparation Works		•			
Diversion War	I.V.				
Impairm and Urandage Lenais. Rural Water Supply Rehabilitation (Coloh, Level (f)	0.7 km				
Rural Road Upgrading (Lughan-Goroh)	2.9 km				
persion Works			1		
	1 1.5				
	47 km				
Rural Road Upgrading (Comun-Coursen) Barangay Road and Farm Road	1.6 km 23.4 km				
22. Upland Model Rural Development Project (1) Presconstruction stare					
Detailed Design & Proparation of Tender Document					
Perspanishion of conferences Tender & Award					
Lund Acquisation Program					
(2) Construction State.					
Preparation Works					
Rutal Road Upgrading (Maopi-Mayogun-Panoypoy) Barangay Road and Farm Roads	42 km 3.4 km				
Deep Well For Rural Water Supply (Level 1)	1 00°.				
Nucleus Nursety including Land Consolidation Nucleus Faculties and Handscraft Sub-Center	0.3 Na				
San Ramon Property					
		1			
Rufal Road Upgrading (Mayon-San Ramon) Barangay Road and Farm Roads	NA MIN				
	2 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20 no. 20				
	2 2				
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Detailed Design & Preparation of Tender Document Perspainfusation of contractors					
Tender & Award					
Karal Kosal Uparrading Doore					
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(Could-Taladong)	2.3 km				
(Sascaran-Bugos-Mahini-Kinawitan-Panoypoy)	1				
(San Ramon-Brigato San Vicente Grande)	4.0 km				
Kura, Wang Sanguy Kehabiatana Project (Leye, II) Preparation Works					
Talustong	1.9 km 2.0 km				
IV Antegrated Support Service Project					
4.1 Establishment of New Organizations (1) Lowland Model Project Acca					
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(2) Unland Model Prolect Area - CARP Beneficiantes Association					
- Landless Farmers' Associations 42. Strengthening of Waret User Associations			The state of the s		
4.3 Agriculture Supporting Services.  Agricultural Tennan					
- Transing on Dock M for frigation and Water Supply Teaning on Dock Manager Occurrent					
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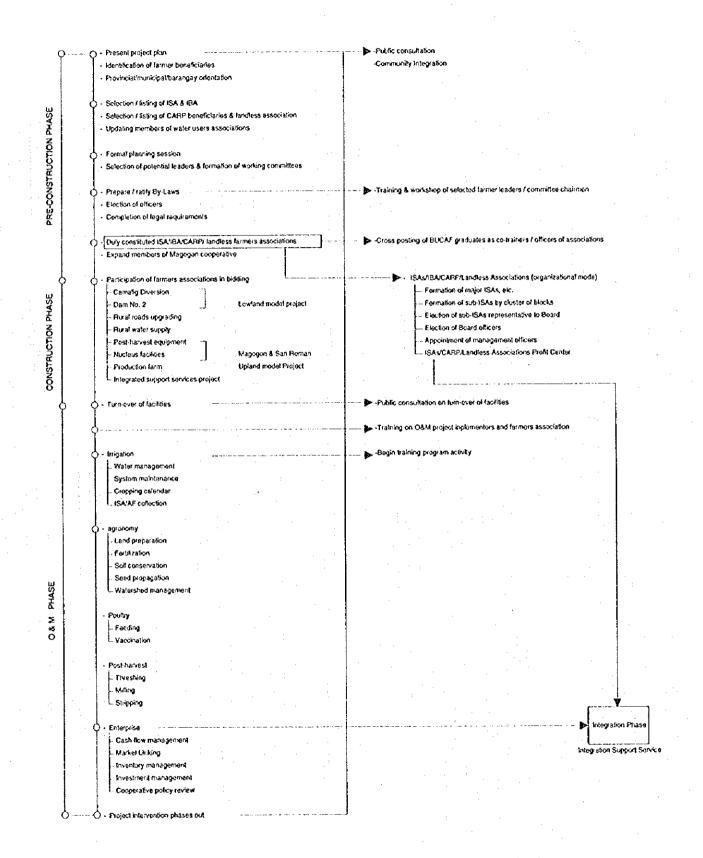
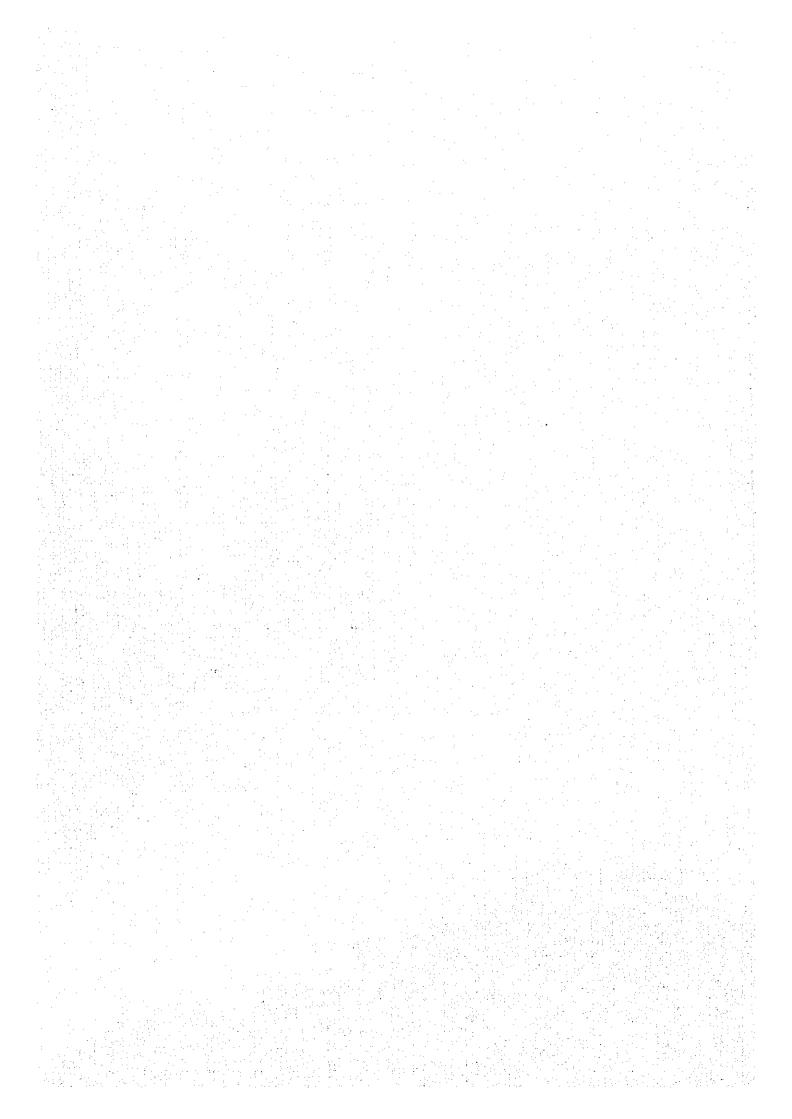


Figure G 9.8 Participatory Approach in Rural and Farmers' Organization

# THE FEASIBILITY STUDY ON THE WESTERN LEGAZPI IRRIGATION AND RURAL DEVELOPMENT PROJECT IN THE PHILIPPINES

# ANNEX H ENVIRONMENT



# ANNEX II

# **ENVIRONMENT**

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#### 1. INTRODUCTION

This annex describes the environmental impact assessment system in the Philippines, the present environmental condition of the Study area, and the environmental assessment of the proposed projects. The description of the present environmental condition covers only these which are not stated in the other part of this draft final report. It largely relies on the secondary data collected during the field survey period. Field reconnaissances were conducted to grasp the natural condition, particularly those of the proposed project sites. The assessment of the probable environmental impact was carried out considering the present condition of the project sites and the proposed features of each project. A detailed survey to make quantitative and qualitative projection of the impacts was not undertaken because no impact that require such survey was identified.

It shall be noted that in this feasibility study, an emphasis has been placed on to minimize the probable adverse environmental impacts from the beginning of the plan formulation process. The extensive public consultation employed in this survey was one of the important measures for the purpose.

#### 2. EIA SYSTEM IN PHILIPPINES

# 2.1 Department of Environment and Natural Resources (DENR)

The DENR was established in 1987 by reorganizing the Department of Environment, Energy and Natural Resources (DENR). It's task is to ensure the sustainable use, development, management, renewal and conservation of country's forest, mineral lands, offshore areas and other natural resources, including the protection and enhancement of the quality of the environment. The DENR is composed of eight Staff Offices, six Staff Bureaus, and the Field Offices which are composed of the regional, provincial (PENRO) and community natural resources offices (CENRO). The six Staff Bureaus and their major functions are:

## 1) Forest Management Bureau

Reforestation, range management, watershed rehabilitation, forest protection, timber management, and implementation of ISF program

## 2) Land Management Bureau

Land disposition, land surveys, and land record management

#### 3) Mines and Geo-Sciences Bureau

Geological surveys and mining rights application and processing

## 4) Environmental Management Bureau

EIA processing and environmental quality monitoring

## 5) Ecosystem Research and Development Bureau

Technology generation and verification on the restoration, development and rehabilitation of deteriorating ecosystems and natural resources

#### Protected Areas and Wildlife Bureau

Management of protected areas, preservation of biological diversity, and maintenance of recreational sites

The organization structure of the DENR is given in Fig. H.2.1.

The Study area is under the jurisdiction of Region 5 office. With relation to the WLIRDP, the regional office is responsible for evaluating the environmental impact documents Project description) as explained in the next section. The regional executive director has the authority to issue an Environmental Compliance Certificate (ECC) and a development clearance.

#### 2.2 Environmental Impact Assessment System

The legal framework for environmental impact assessment (EIA) in the Philippines originated in the enactment of Presidential Degree No.1151 of 1977. A system for the preparation of environmental impact statement (EIS) was subsequently adopted pursuant to P.D. No.1586 of 1978. Further, Presidential Proclamation No.2146 of 1981 declared a number of environmentally critical projects and areas for which environmental impact documents must be prepared. Under the laws project proponents are required to submit an EIS or Project Description (PD) when the projects fall within the following criteria:

# I) ENVIRONMENTALLY CRITICAL PROJECTS (ECP)

## A. Heavy Industries

- 1. Non-Ferrous Metal Industries (the capacity > 3,000 ton/year)
- 2. Iron and Steel Mills (the capacity > 30,000 ton/year)
- 3. Petroleum and Petrochemical Industries (the capacity > 30,000 barrels/year)
- 4. Smelting Plants (the capacity > 15,000 ton/year)

# B. Resource Extracting Industries

- 1. Major Mining and Quarrying Projects
- 2. Forestry Projects (only for commercial-scale logging and wood processing project)
- 3. Dikes for/and Fishpond Development Projects

## C. Infrastructure Projects

- 1. Major Dams (the storage volume > 20 million m³)
- 2. Major Power Plants (the capacity > 10 MW, the capacity > 6 MW for hydro-power only)
- 3. Major Reclamation Projects (> 1.0 ha)
- 4. Major Roads and Bridges

# II) ENVIRONMENTALLY CRITICAL AREAS (ECA)

- A. All areas declared by law as national parks, watershed reserves, wildlife preserves and sanctuaries
- B. Areas set side as aesthetic potential tourist spots
- C. Areas which constitute the habitat for any endangered or threatened species of indigenous Philippine wildlife (flora and fauna)
- D. Areas of unique historic, archeological, or scientific interests
- B. Areas which are traditionally occupied by cultural communities or tribes
- **<u>F.</u>** Areas frequently visited and or hard-hit by natural calamities (geologic hazards, floods, typhoons, volcanic activities, etc.)
- G. Areas with Critical slope (>40%)
- H. Areas classified as prime agricultural lands
- I. Recharged areas of aquifers
- I. Waterbodies (for domestic purposes and wildlife and fisheries activities)
- K. Mangrove areas
- L. Coral Reefs

For projects that fall within Environmentally Critical Project (ECP), project proponents must submit an EIS to Environmental Management Bureau (EMB) of DENR. For projects that are located in Environmentally Critical Area (ECA), project proponents must submit Project Description (PD) to DENR Regional Offices. The project proponents who submitted PD may be required later to submit an EIS if deemed necessary. The PD is a brief and inconclusive description of the project and its environmental impacts. On the contrary, the EIS is more comprehensive and includes the detailed description of the project, the prediction and assessment of impacts and project alternatives.

The EIS Unit of EMB is responsible for processing the EIS. Meanwhite, the EIS Unit of DENR Regional offices is responsible for the processing of the PD. During the evaluation process, an ocular inspection and further review by the EIS Review Committee may be carried out if necessary. Public hearing may also be conducted when the project would affect a large number of people or when public opposition against the project is great. An Environmental Compliance Certificate (ECC) is issued by the DENR Secretary or Regional

Executive Directors to projects after having satisfied the process. Compliance monitoring will be conducted for all ECPs by the EMB and all other projects by the DENR Regional Offices.

Because the WLIRDP does not fall within ECP but is located in ECA, the proponent of the WLIRDP is required to submit PD to DENR Region 5 office.

#### 3. ENVIRONMENTAL CONDITION OF THE STUDY AREA

# 3.1 Biological Environment

#### 3.1.1 Flora

Forest with certain ecological and commercial values does not exist in the Study area. All the land in the Study area are classified as alienable and disposable lands (A&D Lands) under the Revised Forestry Code of the Philippines (PD No.705, 1975) and owned by individual personnel. The land has been converted from the original land use of forest to coconut farm, paddy field, upland crop field, grassland and miscellaneous areas including residential area. Because of the land status (A&D lands), reforestation and forest conservation by DENR have not been conducted in the Study area.

Even in Albay province as a whole, forest resource remains only on the slope of Mts. Masarawag and Malinao in the north, the upper slope of Mt. Mayon and mountain ranges in Rapu-Rapu, Batan and Cagraray Islands. These forest cover totals to only 7,600 ha. Major tree species are narra, malove, white lauan, red lauan, dao, and tabique.

#### 3.1.2 Fauna

Wildlife particularly mammals are rarely observed in the Study area due to human intervention. Even in Mayon Volcano national park, it is reported only wildpig and deer inhibit scarcely. On the contrary, avifauna (birds) are relatively diverse in species and population. The avifauna species frequently observed in the Study area are:

1. Olive Backed Sunbird

4. Tree Sparrow

2. Little Heron

5. Yellow Ventel Bulbul

3. Chestnut Mania

6. Philippine Bulbul

It is reported, however, that composition of avifauna species has changed over time due to the changes in ecosystem structure caused by natural calamity, change in cropping system and the use of pesticide.

#### 3.2 Historical and Recreational Sites

Represented by Mayon Volcano, Albay province is the focal point of tourism in Bicol region. Many historical and recreational sites in the province attract both local and foreign visitors. The historical sites located in and around the Study area are shown in Fig. H.3.1 and listed as below. It is noted that none of them is located within the area of proposed projects.

Mayon Volcano

Hoyop-Hoyopan Cave

Cagsawa Ruins

Budiao Ruins

#### 3.3 Risk of Volcanic Hazard

The northern edge of the Study area lies on the lower foot of Mayon volcano. Mayon volcano is an active volcano and caused devastating damage on properties and human life in the past. It crupts every eight to ten years and the latest eruption took place in February 1993. Hazards from Mayon can be classified into two broad types:

Flowage Hazards (ground-huggers)

Lava flows

- Pyroclaste flows

- Lahars

Non-flowage Hazard (airfall)

Ballistic fragment

- Large-tephra Fall

- Ashfall

In general, flowage hazards are much more dangerous to people and property than non-flowage hazard. According to the volcanic hazard map prepared by PHIVOLCS, hazard zone of lava and pyroclastic flows does not extend to the Study area. However, the area around the Camalig town proper are within lahar hazard zone and thus highly vulnerable to lahar encroachment and floods, as shown in Fig. H.3.2.

#### 3.4 Soil Erosion

The topography of the Study area ranges from flat to rolling and moderately steep. The land in the southwest of Camalig town proper and in the center of the Study area are flat lowland and mostly used for paddy cultivation. By contrast, the southern half of the Study area is characterized by rolling terrain of limestone. Moderately steep topography of more than 50% slope is found in the southern area and in Kituinan mountain range located in the south of Camalig town proper (barangay Tinago).

The rolling and steep land are susceptible to soil erosion when the rainfall intensity is high. Though most of the rolling and steep land are currently protected by the vegetation cover of coconut and tree crops, some of such land are used for the cultivation of maize and camote without tree cover and soil conservation measures. It is speculated that the soil productivity of the land is declining due to soil erosion. Introduction of soil conservation measures is essential for the sustainable use of the land. According to the staff of municipal agricultural office of Camalig, extension activities promoting soil conservation practices like SALT (Sloping Agricultural Land Technology) failed in the area because of insufficient technical and material support to farmers.

#### 4. ENVIRONMENTAL ASSESSMENT OF THE PROJECTS

# 4.1 Project Components

The proposed components of the WLIRDP are summarized in Table H.4.1. The WLIRDP is classified into the following four categories:

- 1) Model development projects
- 2) Upgrading of rural road projects
- 3) Rehabilitation of Level-II water supply system
- 4) Integrated support services project

The model development projects envisages four sub-projects that involve the development of lowland and upland. In the lowland model development, the construction of new physical facilities -- Camalig diversion weir and Dam No. 2 -- is a major activity. It is expected that the projects will promote intensive cultivation of paddy rice under irrigation and appropriate farming practices. In addition to the irrigation facilities, the components of the lowland model projects will include the rehabilitation of rural roads and water supply system and provision of post-harvest equipment. These facilities are particularly necessary for the integrated development of lowland agriculture.

The upland model development envisages the integrated development of upland farming through the provision of production and marketing facilities and strengthening of beneficiaries organization. The physical components of the upland projects will include the upgrading of the existing barangay roads, provision of inter-village road and rural water supply system, and construction of nucleus farm and post-harvest facilities.

The projects for upgrading of rural roads and rehabilitation of water supply system will be for the improvement of existing facilities. The integrated support services project aims at improving the skill and mobility of municipal extension agents.

In addition to the above physical components, social and institutional components are included in all project, except in rural road upgrading projects, to strengthen organizational activities of beneficiaries.

#### 4.2 Assessment of Potential Environmental Impacts

#### 4.2.1 Screening and Scoping

Environmental screening and scoping were undertaken to identify and assess the potential adverse impacts of each project on the environment, taking the detail features of the projects into account. The results of the screening / scoping are summarized as follow:

	<b>Projects</b>	key negative impact identified
1)	Camalig diversion (lowland)	dislocation of households
2)	Dam No.2 (lowland)	dislocation of households
3)	Magogon (upland)	no significant impact
4)	San Ramon (upland)	no significant impact
5)	Rural road upgrading	no significant impact
6)	Rural water supply rehabilitation	no significant impact
7)	Integrated support services	no significant impact

It was assessed that, among the proposed projects of the WLIRDP, the Camalig diversion and Dam No.2 projects will likely cause moderate adverse impact on the environment, particularly on human population, unless mitigation measures will be pursued. The environmental assessment of the two projects is described in the next section.

Unlike the lowland model projects, the other projects -- upland model projects in Magogon and San Ramon, and the projects of rural road upgrading, rehabilitation of rural water supply and integrated support services -- are not expected to have significant or moderately significant environmental impact because of their scale and the nature of activities to be undertaken which will be in the form of improvement / construction of roads, and/or social activities.

# 4.2.2 Environmental Assessment of Lowland Model Projects

The Camalig diversion project envisions to develop the flood plain of Ligban river which is located around one (1) km southwest from Camalig Poblacion. The project involve the construction of a diversion weir at the Tinago river, main and lateral canals, service roads, and drainage canals. Flood protection wall will be constructed on both side of the Tinago river up to 1.0 km upstream from the weir. The project also involves the upgrading of barangay roads for smooth marketing of produce and the provision of production / post-harvest equipment and facilities for the improvement of pre- and post-harvesting activities.

The Dam No.2 project will construct a dam with a height of 16.8 m and use the storage water for irrigating the existing rainfed paddy field. Other facilities to be constructed or provided under the project are the same as those of the Camalig diversion project.

The assessment of the potential environmental impact of the Camalig diversion and Dam No.2 lowland model projects is given in Tables H.4.2 and H.4.3 and described below.

#### (1) Soil Erosion in the Construction Site

Both project will include the construction of small scale facilities such as a diversion weir, a dam, and canals. Because the construction works will accompany with the disturbance (cut and fill) of surface soils, soil erosion from fresh cuts and fill of soil in the construction site is likely during the rainy season. The impact will be temporary and is moderate. This impact could be minimized by proper handling of cut and fill materials during the construction stage and the restoration of vegetation in the disturbed land after the completion of construction work.

#### (2) Effects on Property

There are about 25 houses located near the proposed site of Camalig diversion weir and the flood protection walls as shown in Figure H.4.1. There are also 5 houses on the proposed shortcut course of Ligban river. These households will have to be relocated temporarily during the construction period, or permanently if the houses are located between the flood protection wall and the river or on the proposed shortcut course. This might cause antagonism among the affected households.

Although the project plan has already been informed to some of the households during the consultation meetings in Phase II study, further consultations and negotiations with all the affected households will be necessary to arrive atmutural arrangement relative to compensation for damaged properties.

The Dam No.2 project will inundate about 40 ha of land due to the construction of reservoir. The owners or tenants of the land will have to give up the lands in the reservoir area. According to the survey, a total of 47 lots in barangay Lacog will be affected by the construction of the proposed dam. The number of houses within the dam and reservoir area was 22. The status of the occupants is as follow:

Owner	Owner (residing outside)	Tenant	Unknown	Total	
23 (50%)	10 (22%)	7 (14%)	7 (14%)	47	

Based on the consultation meetings held in barangay Lacog during the Phase II study, most of the affected families showed their willingness to give up their lands, provided they will be duly compensated. About 50% of the land owners prefer monetary compensation for the damaged properties and the rest desired to be relocated within barangay Lacog. On the other hand, the tenants wanted either the provision of lands in an other place or be given priority for employment, in order to ensure their livelihood.

There are two options for providing lands to the tenants: they could be given a land in a nearby barangay as eligible beneficiaries of the CARP, or be resettled in the area acquired by the provincial government of Albay for Mayon victims. In the latter case, about 22 ha of lands in barangay Anislag will be one of the possible resettlement sites. The relocation of affected families is essential for the successful and peaceful implementation of the projects.

# (3) Alteration or Destruction of Natural Habitat

Significant alteration or destruction of the habitat of flora and fauna will be unlikely because the project will not change the present land use pattern and farming practices and there is no habitat of important flora and fauna in and around the project area.

# (4) Alteration or Loss of Farm Land

Alteration or loss of farm land accompanied by the project implementation -- right-of-way problem -- will be unavoidable due to the construction of canals and roads and the proposed short cut of Ligban river in Camalig diversion project. However, the significance of the impact will be minimal considering the trade-off between the negative aspect and the positive effect of the construction -- increase of paddy rice production by the supply of irrigation water.

# (5) Deterioration of Water Quality

Deterioration of water quality in this case is the one caused by the excessive and/or uncareful use of pesticides and chemical fertilizers. It could render the water unfit to other uses, harm aquatic species, and, because of high nutrient content, result in aquatic weed growth and has health and ecological consequences. Because the lowland model projects envision the intensive irrigated paddy cultivation, the problem is likely to occur unless chemical fertilizer and pesticides are used properly.

It is considered, however, the problem of the lowland projects could be minimized because the improved farming practices will be introduced to the project area through the proposed "Integrated support service project" of the WLIRDP.

# (6) Reduction of Downstream Flow

Reduction of downstream flow is another potential concern in case of irrigation projects. Diversion and loss of water through irrigation reduces the water supply for downstream users. In Camalig diversion project, the project area as well as the immediate downstream area have flood and inundation problem every year. Therefore, the Camalig project is unlikely to have the downstream problem in the future.

Meanwhile in Dam No. 2 project, the proposed dam will be constructed at the Abgao river with the drainage area of 1.8 km² only at the dam site. The Abgao river flows through the proposed irrigation area and joins the Taladong river just after the project area. This means the water users between the immediate downstream of dam site and the confluence with the Taladong river are the beneficiaries of the proposed project themselves. In addition, the drainage area of the proposed dam site is so small relative to the drainage area of the Taladong river that its storage could not affect the downstream flow below the Taladong river.

## (7) Watershed Issues

An external factor that can influence the irrigation project is land utilization in upstream. In particular, soil erosion in the watershed area causes various problems such as increasing the sediments in the reservoir and canal clogging. This will raise the maintenance cost and shortens the economic life of the irrigation projects. The watershed management of irrigation projects is one of the activities to be undertaken to effect better land use in the future.

The watershed of the Camalig diversion site has an area of 8.0 km². The northern part of the watershed, located on the foot of Mt. Mayon, is covered with coconut land, whereas the southern side, Kituinan mountain range of barangay Tinago, is covered with upland crop field and grass land on the relatively steep slope. It is speculated that the southern part of the Camalig watershed is susceptible to soil erosion because the vegetation cover is scarce and crop cultivation has been carried out on relatively steep slope without any soil conservation measures. However, the soil erosion could be much reduced because the proposed Camalig diversion project includes a watershed management component -- extension of soil conservation measures.

The watershed of the Dam No.2 site, with an area of about 1.8 km², is mostly covered with coconut. With limited open land in the watershed, soil erosion is considered to be insignificant at present. There is a concern, however, that the construction of the dam and reservoir could promote the intensive and improper use of the lands because water will become available and accessibility to the watershed area also become better. A watershed management component included in the Dam No.2 project will work for the better land use and management.

#### 5. RECOMMENDATIONS

It was assessed that two lowland model development projects would have potential to cause adverse impacts on the environment. But they could be minimized or mitigated by adopting proper construction methods and/or mitigation measures. Recommendations drawn from the assessment results are as follow:

- (1) Maximum attention should be paid to construction methods to avoid severe soil erosion.
- (2) Restoration of environment damaged by the project implementation must be carried out in a right way.
- (3) Consultation with affected families in the lowland model projects should be carried out continuously in order to let them understand the value of the project and to reach an agreement of compensation with them.

# THE FEASIBILITY STUDY ON THE WESTERN LEGAZPI IRRIGATION AND RURAL DEVELOPMENT PROJECT IN THE PHILIPPINES

**TABLES** 

Table H.4.1 Project Components under Western Legazpi Irrigation and Rural Development Project (1/2)

Camalig Diversion Lowland	roject	Physical Component	Social and Institutional Component
- Irrigation and Drainage Facilities -Potential area (130 ha without roration) -Main canal (1nos. 2.2 km) -Lateral canal (2 nos. 3.4 km) -Service road (2.7 km) -Drainage canal (3 nos 2.3 km) -Service road (2.7 km) -Drainage canal (3 nos 2.3 km) -Shood protection dike (3.0 km) -Flood Channel (1.3 km) -Rural Water Supply Rehabilitation Level II (Gotob. 0.7 km pipe) - Provision of Production and Marketing Center (Hand-tractor, thresher, Rice Mill, Dryer) - Irrigation and Drainage Facilities - Potential Area (395 ha with rotation) - Main canal (1 nos. 10.7 km) -Lateral canal (11 nos. 11.1 km) - Brainage canal (11 nos. 17.1 km) - Reservoir (0.68 MCM) -Dam (height; 16.8 m, length; 278 m) - Watershed management - Rural Water Supply Rehabilitation Level II (Inarado, 4.7 km pipe) - Provision of Production to Marketing Center (Hand-tractor, thresher, Rice Mill, Dryer) - Provision of Production to Marketing Center (Hand-tractor, thresher, Rice Mill, Dryer) - Rural Road Upgrading (Anislas - Maopi - Magogon - Panoypoy, 7.5 km) - Provision of Inter-Village Road (1.6 km) & Farm Road (1 Barangay Magogon) - Level I (Barangay Magogon) - Establishment of Nucleus Farm (nursery, rotation farm development) - Establishment of Mucleus Facilities (Rice and conrifeed mills, drying floor, warehouse, poultry cage, etc.) - Establishment of Handicraft Sub-Center	nen: Project		
- Irrigation and Drainage Facilities - Potential Area (395 ha with rotation) - Main canal (1 nos. 10.7 km) - Lateral canal (11 nos. 11.1 km) - Drainage canal (11 nos. 17.1 km) - Reservoir (0.68 MCM) - Dam (height; 16.8 m, length; 278 m) - Watershed management - Rural Water Supply Rehabilitation - Level II (Inarado, 4.7 km pipe) - Provision of Production to Marketing Center (Hand-tractor, thresher, Rice Mill, Dryer) - Rural Road Upgrading - Rural Road Upgrading - Provision of Inter-Village Road (1.6 km) & Farm Road(1.8 km) - Deep Well for Rural Water Supply (1 no.) - Level I (Barangay Magogon) - Establishment of Nucleus Farm (nursery, rotation farm development) - Establishment of Nucleus Facilities (Rice and corn/feed mills, drying floor, warehouse, poultry cage, etc.)		on and Drainage Facilities ial area (130 ha without roration) canal (1nos. 2.2 km) •Lateral canal (2 nos. 3.4 km) e road (2.7 km) •Drainage canal (3 nos 2.3 km) protection dike (3.0 km) •Flood Channel (1.3 km) coad Upgrading n • Gotob • Taladong, 5.5 km) Vater Supply Rehabilitation II (Gotob, 0.7 km pipe) on of Production and Marketing Center tractor, thresher, Rice Mill, Dryer)	- Establishment of O&M Organizations (Irrigators Beneficiaries Association-IBA and Irrigators Service Agency-ISA) - Management of Production to Marketing Center under ISA - Improvement of pre-and post harvest activities through ISA's services assisted by the Government
- Rural Road Upgrading - Ranislag - Maopi - Magogon - Panoypoy, 7.5 km) - Provision of Inter-Village Road (1.6 km) & Farm Road(1.8 km) - Deep Weil for Rural Water Supply (1 no.) - Level I (Barangay Magogon) - Establishment of Nucleus Farm (nursery, rotation farm development) - Establishment of Nucleus Facilities (Rice and corn/feed mills, drying floor, warehouse, poultry cage, etc.)	t Project	on and Drainage Facilities ial Area (395 ha with rotation) zanal (1 nos. 10.7 km) *Lateral canal (11 nos. 11.1 km) ige canal (11 nos. 17.1 km) voir (0.68 MCM) *Dam (height; 16.8 m, length; 278 m) hed management Vater Supply Rehabilitation If (Inarado, 4.7 km pipe) on of Production to Marketing Center -tractor, thresher, Rice Mill, Dryer)	- Establishment of O&M Organizations (Irrigators Beneficiaries Association-IBA and Irrigators Service Agency-ISA) - Management of Production to Marketing Center under ISA - Improvement of pre-and post harvest activities through ISA's services assisted by the Government - Promotion of community linkage between watershed and irrigation areas
	ant Project	koad Upgrading ag - Magogon - Panoypoy, 7.5 km) on of Inter-Village Road (1.6 km) & toad(1.8 km) Vell for Rural Water Supply (1 no.) I (Barangay Magogon) shment of Nucleus Farm y, rotation farm development) shment of Nucleus Facilities and corn/feed mills, drying floor, warehouse, cage, etc.)	<ul> <li>Strengthening of the existing cooperative organization covering the landless farmer households</li> <li>Establishment of Nucleus Farm and Facilities at the member s' land under lease contract)</li> <li>Demonstration and training activities at Nucleus Farm</li> <li>Seedling production and supply at Nucleus Farm</li> <li>Cooperative processing and marketing activities</li> </ul>

Table H.4.1 Project Components under Western Legazpi Irrigation and Rural Development Project (2/2)

Project	Physical Component	Social and Institutional Component
4. San Ramon Upland Model Development Project	- Rural Road Upgrading (Mayon - San Ramon, 3.6 km) - Provision of Inter-Village Road (1.6 km) & Farm Roads (1.6 km) - Deep Well for Rural Water Supply Level I (New village urea, 2 nos.) - Establishment of Nucleus Farm (1.4 ha) and Production Farm (5.0 ha) - Establishment of nursery (0.3 ha at Nucleus Farm and 1.0 ha at Production Farm) - Provision of Production Farm) - Provision of Production Farm Facilities (soil improvement, abaca processing and marketing, workshop, handicraft center) - Provision of Nucleus Farm Facilities - Provision of Small Water Body	<ul> <li>Organization of CARP Beneficiary Group/Cooperative (lot 17140, 37 ha)</li> <li>Organization of Landless Farmers' Group/Cooperative (Government land at lot 16271)</li> <li>Demonstration and training activities at Nucleus Farm and Production Farm</li> <li>Production and supply of seedling (abaca, shade crops/fruit trees)</li> <li>Abaca processing and marketing activities</li> <li>Production and marketing of handicraft</li> </ul>
II. Rural Road Upgrading. Project	- 3 Rural Link Road Upgrading (Bascaran - Burgos - Mabini - Kinawitan - Panoypoy, 6.0 km) (San Ramon - Bigao - San Vicente Grande, 3.3 km) (Cornun - Cotmon - Del Rosario - Panoypoy, 7.2 km)	
III. <u>Rural Water Supply</u> <u>Rehabilitation Project</u>	- 2 Rural Water Supply Rehabilitation Level II (Barangay Taladong; 1.6 km pipe & Barangay Gabawan ; 0.9 km pipe )	- Establishment of Water Users' Association
IV. Integrated Support Services. Project	<ul> <li>Upgrading BUCAF training center including soil laboratory</li> <li>Establishment of Camalig municipal training center</li> <li>Upgrading extension equipment at municipal and provincial offices</li> </ul>	- Strengthening the linkage of research and extension works - Strengthening of extension works in coordination with agencies concerned.

Table H.4.2 Assessment of Probable Environmental Impacts (1/2)

Probable / Potential Impacts	During construction stage	Project During operation stage	Comments / recomended mitigation measures
Soil erosion in and around the construction site	2 a-c-e	-	Soil erosion from fresh cuts and fill of soil wi be likely.
			Proper handling of cut and fill materials shall be enforced thoroughly.
			Restoration of disturbed land shall be done as part of the construction activities.
Alteration or destruction of the habitat of flora and fauna	3	<u>.</u>	The destruction is minimal and temporal.     No endangered species exist in and around the Project area.
<ol> <li>Damage to historic, cultural or aesthetic assets</li> </ol>	•		No such site exists nearby.
4. Effects on farm lands, houses / building and infrastructure due to creation of reservoir	2 a-d-f	-	Temporal dislocation of houses located aroun the proposed weir site will be necessary durin construction.
			Further consultation with the affected population is necessary.
5. Alteration or loss of farm land	3	. •	Some hectare of farm land will be lost due to the construction of canals and service & link
			<ul> <li>Proposed short cut of Lighan river course will lead to the loss of farm land, while it will relieve the food-prone farm land from suffering.</li> <li>Consultation with the affected population is</li> </ul>
6. Deterioration of water quality			necessary during the D/D stage.  • IPM or proper use of pesticide will be include
	3	3	in the improved farming practices to be introduced through the project implementation. Thus the deterioration of water quality is unlikely or minimal.
<ol> <li>Reduction of downstream flows that affect downstream ecology and users of water</li> </ol>	-	3	• Unlikely
Increase of downstream flows     (drainage water from farms) affecting communities	•	3	• Unlikely
Conflicts over inequalities in water distribution throughout service area	-	3	<ul> <li>Proper water management by irrigation servic association could minimize such conflict.</li> </ul>
<ul><li>10. Increased incidence of water-related diseases</li></ul>		3	None or minimal.
11. Increase of construction-related employment opportunity	5 a-c		<ul> <li>The construction works will provide temporar job opportunity to the villagers nearby.</li> </ul>
12. Increase of crop production (which results in the increase of farm income)	•	4 a-d	<ul> <li>The biggest positive effect of the project.</li> <li>This will lead to higher living standard of the population.</li> </ul>
13. Increase of agricultural-related employment opportunity	•	4 b-d	<ul> <li>Employment opportunity in marketing of inpart and outputs, processing, etc. will be increased substantially.</li> </ul>

Re		

Significance of impact 1. Significant (negative) 2. Moderate (negative) 3. Insignificant (negative)	Characteristics of impact a. Direct b. Indirect c. Short term	The feature of impacts is indicated as follow:  meaning that the impact would be significant (negative), direct, short term, and reversible.	
4. Significant (positive) 5. Moderate (positive) 6. Insignificant (positive)	d. Long term e. Reversible f. Irreversible	meaning that the impact would be significant (positive), direct, long term, and reversible.	

The characteristics of insignificant impacts are not indicated.

Table 11.4.2 Assessment of Probable Environmental Impacts (2/2)

am No. 2 Lowland Model Developme Probable / Potential Impacts	During construction stage	Ouring operation stage	Comments / recomended mitigation measures
Soil erosion in and around the construction site	2 a-c-e	Stage	<ul> <li>Soil erosion from fresh cuts and fill of soil will be likely.</li> <li>Proper handling of cut and fill materials shall be</li> </ul>
			enforced thoroughly.  • Restoration of disturbed land shall be done as a
2. Afteration or destruction of the habitat			part of the construction activities.  • The destruction is considered to be minimal
of flora and fauna	3	•	<ul> <li>because of the small size of reservoir (40 ha).</li> <li>No endangered species exist in and around the</li> </ul>
	, 1 , 45 a p 4 <b>8</b> 04 ( 14 <b>p</b> )   1 p 1 , 1 , 1 , 1 a a a a p 2 p 2 a		Project area     No such site exists nearby.
Damage to historic, cultural or aesthetic assets	-	•	
Effects on farm lands, houses / building and infrastructure due to creation of reservoir	2 a-d-f	-	Population in and around the proposed dam and reservoir site will be affected.
			Further consultation and negotiation with the affected population is necessary until the implementation of the project.
			Proper compensation to the affected population either in eash or in kind, is a must for their future livelifood.
5. Alteration or loss of farm land	3	=	Some hectare of farm land will be lost due to the creation of reservoir and the construction o canals and roads.
			Consultation with the affected population is necessary to avoid future conflict on land.
6. Deterioration of water quality	3	3	IPM or proper use of pesticide will be included in the improved farming practices to be introduced through the project implementation. Thus the deterioration of water quality is unlikely or minimal.
<ol> <li>Reduction of downstream flows that affect downstream ecology and users of water</li> </ol>	-	3	* Catchment area of the dam is small (1.8 km²) relative to that of the whole river system
Increase of downstream flows     (drainage water from farms) affecting     communities	-	3	• Unlikely
Conflicts over inequalities in water     distribution throughout service area		3	Proper water management by irrigation service association could minimize such conflict.
10. Increased incidence of water-related diseases	•	3	None or minimal.
11. Increase of construction-related employment opportunity	5 a∙c		The construction works will provide temporary job opportunity to the villagers nearby.
12. Increase of crop production (which results in the increase of farm income)	•	4 a-d	The biggest positive effect of the project. This will lead to higher living standard of the population.
13. Increase of agricultural-related employment opportunity	•	4 b-d	Employment opportunity in marketing of inpu and outputs, processing, etc. will be increased substantially.

arks	
Significance of impact	Characteristics of impact
1. Significant (negative)	a. Direct
2. Moderate (negative)	b. Indirect
3. Insignificant (negative)	e. Short term
4. Significant (positive)	d. Long term
5. Moderate (positive)	le. Reversible
6. Insignificant (positive)	f. Irreversible

The features of impacts are indicated as follow:

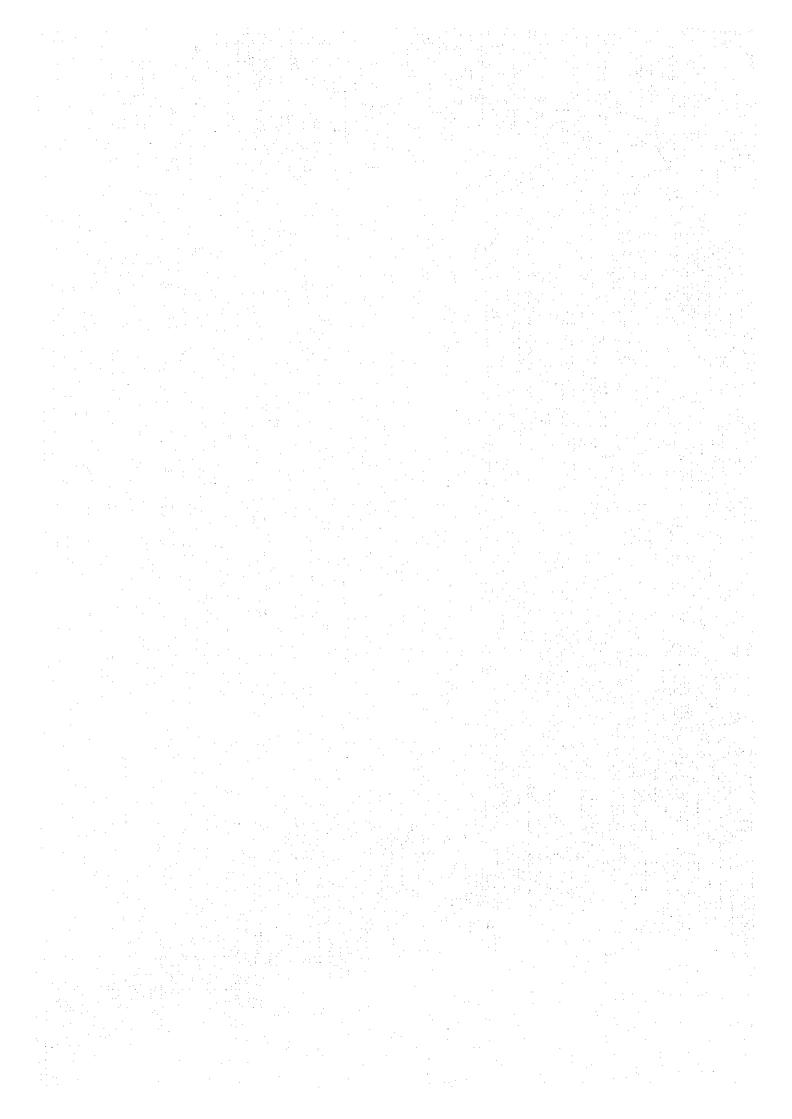
1	meaning that the impact would
a-c-e	<ul> <li>be significant (negative), direct, short term, and reversible.</li> </ul>

meaning that the impact would be significant (positive), direct, long term, and reversible.

The characteristics of insignificant impacts are not indicated.

## THE FEASIBILITY STUDY ON THE WESTERN LEGAZPI IRRIGATION AND RURAL DEVELOPMENT PROJECT IN THE PHILIPPINES

**FIGURES** 



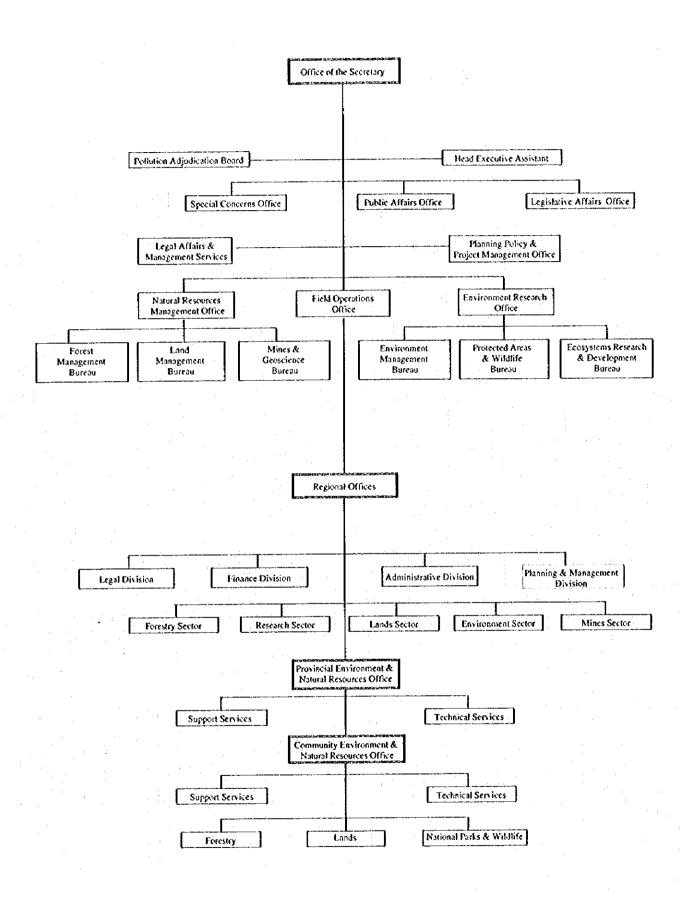
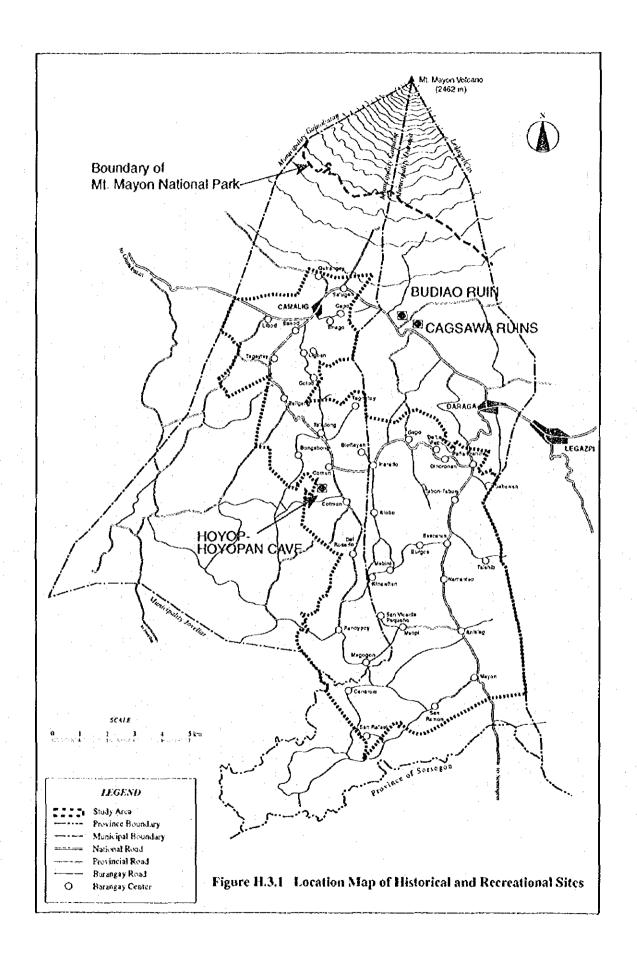
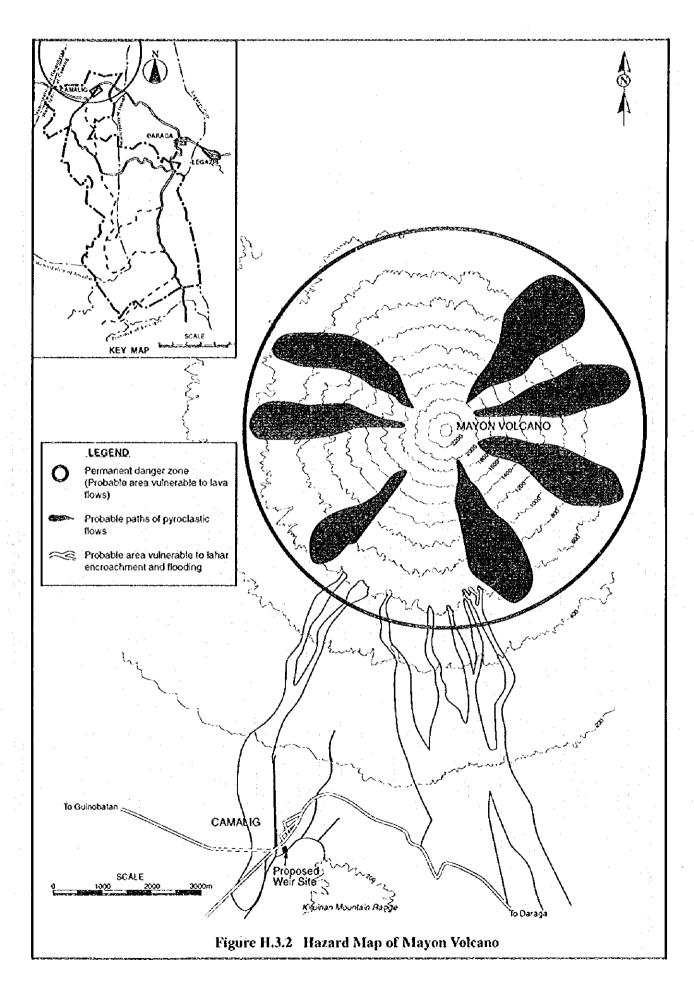
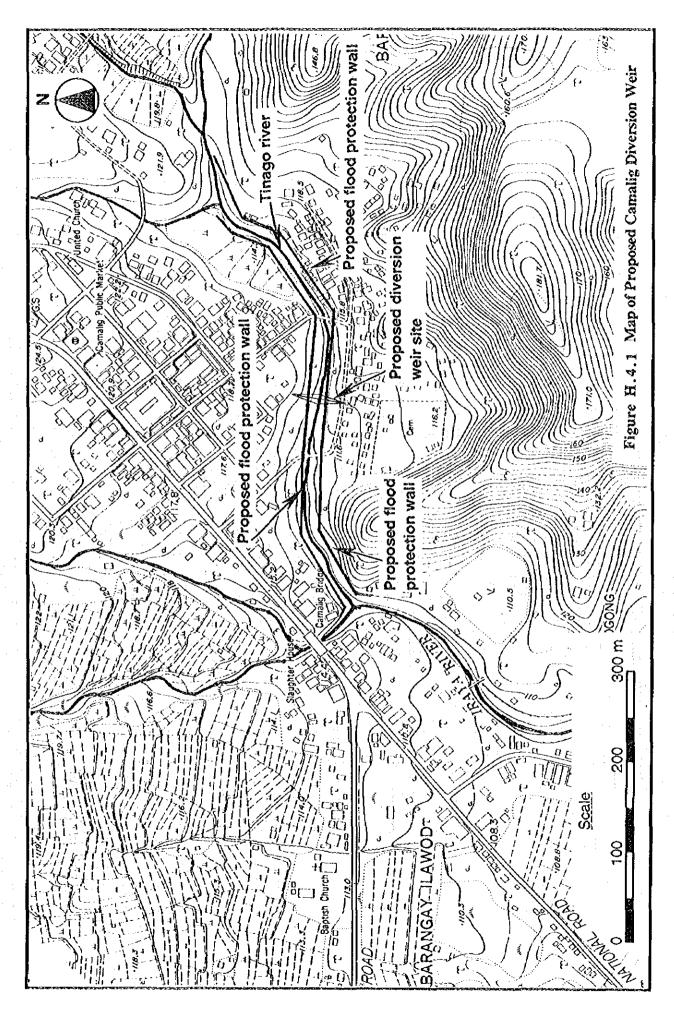
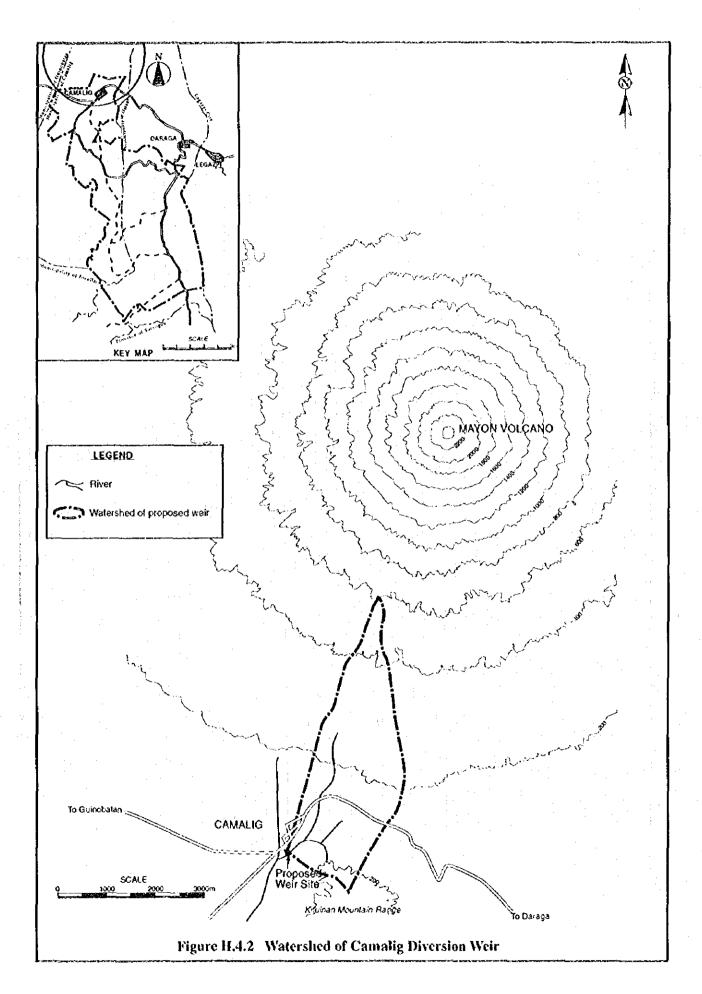


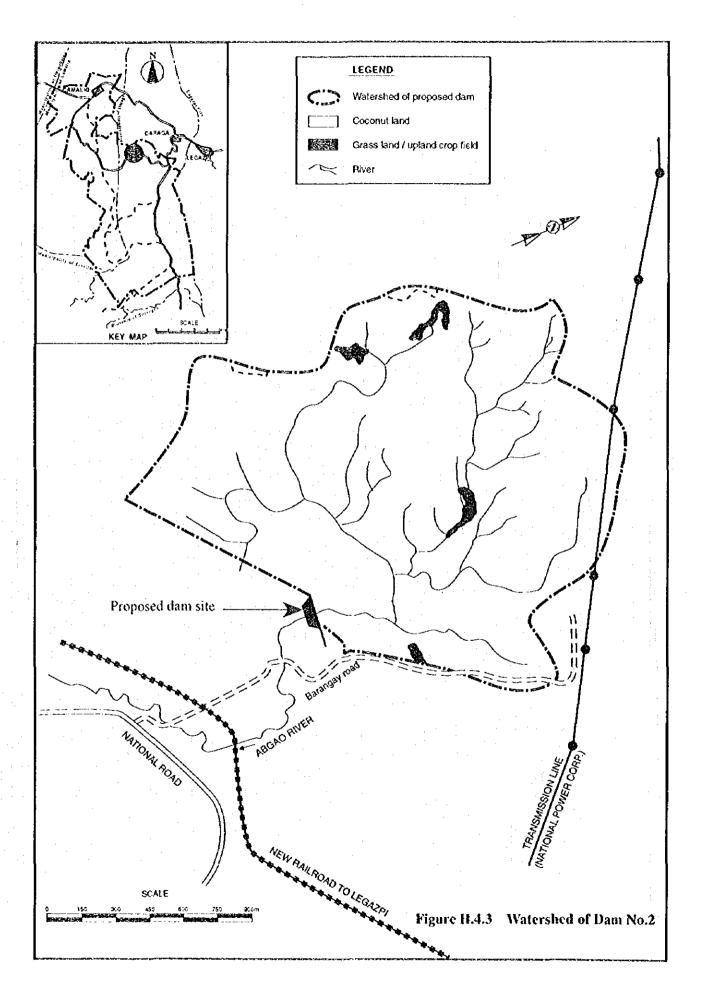
Figure H.2.1 Organization Chart of Department of Environment and Natural Resources





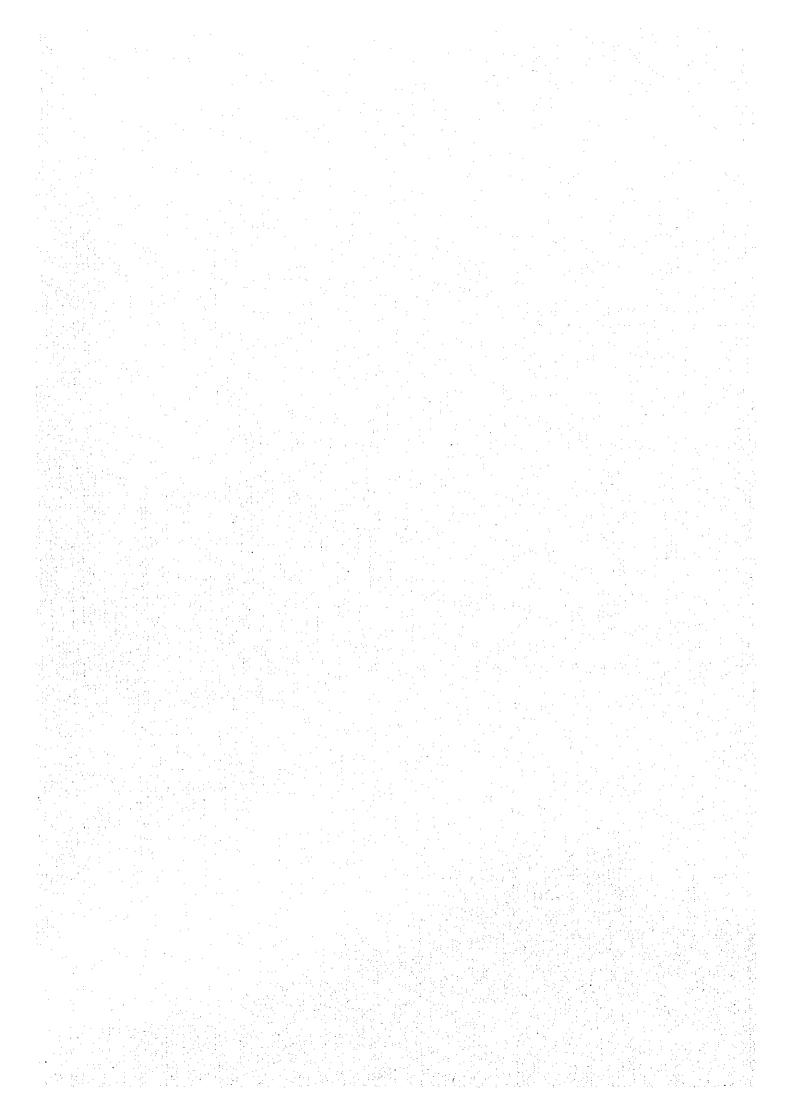






## THE FEASIBILITY STUDY ON THE WESTERN LEGAZPI IRRIGATION AND RURAL DEVELOPMENT PROJECT IN THE PHILIPPINES

# ANNEX I COST ESTIMATE



## ANNEX I

## COST ESTIMATE

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#### 1. BASIC ASSUMPTION OF COST ESTIMATE

Construction costs are estimated at the price level of August 1996 taking into consideration the costs of labor, construction materials and equipment, the current price estimation method, tender method, local contractors' work capacities, etc. In the Study, the construction costs are estimated with the conditions of the local competitive bidding (LCB), and the following conditions and assumptions.

i) The unit prices of labor, construction material and equipment are composed of foreign and local currency components. The ratio of foreign and local currency components is estimated as shown below, referring to the NIA criteria:

	Item	Foreign	Local
		Currency	Currency
1	Cement	80	20
2	Steel	90	10
3	Lumber	40	60
4	Aggregate	30	70
5	Labor	0	100
6	Fuel and Oil	80	20
7	Equipment	80	20
. 8	Steel Gate	80	20

- ii) Construction materials costs are assumed to be of site price including transportation cost.
- Working ratio and work capabilities of equipment are estimated based on the present prevailing conditions in the Study area.
- iv) Land acquisition costs are estimated as shown below, based on the present land fee in the Study area.

Type of land	(Peso/ha)
Rainfed paddy field	50,000
Coconut land	14,000
Home garden	50,000

- v) Overhead and profit of contractors are assumed at 30% of the direct construction costs.
- vi) Engineering costs are assumed at 10% of the sum of direct construction costs.
- vii) Administration costs are estimated at 2% of the sum of direct construction costs.
- viii) Physical contingency is assumed at 10% of the sum of the direct construction costs, engineering cost, procurement cost of O&M equipment, administration cost and land acquisition cost.

- ix) Price contingency is assumed at 2.0% per annum for foreign currency portion and 6.0% per annum for local portion.
- x) Exchange rate is applied as follows; US \$1.0 = Peso 26.0

Costs of labor and construction materials are summarized in Tables I.1.1 and I.1.2.

#### 2. PROJECT COST

#### 2.1 Camalig Diversion Lowland Model Development Project

The Project cost is estimated at 47.82 million pesos as shown below. The O&M cost is estimated at 462, 600 pesos per annum. The detailed costs and work quantities are shown in Tables I.2.1 and I.2.8 to I.2.13.

			(Unit : P 1,000)	
		Foreign	Local	
	Description	Currency	Currency	Total
1. C	onstruction Cost	19,772	12,420	32,192
1.	1 Irrigation and Drainage Facilities	9,172	4,359	13,531
· · 1.	2 Rural Infrastructure Facilities	9,880	7,752	17,632
1.	3 Production and Marketing Centers	720	309	1,029
2. O	& M Equipment	96	24	120
3. E	ngineering Cost	2,414	805	3,219
4. A	dministration Cost	0	644	644
- 5. La	and Acquisition and Compensation Cost	0	2,494	2,494
6. Pl	rysical contingency	2,228	1,639	3,867
7. Pr	rice Escalation	1,650	3,631	5,281
	GRAND TOTAL (P 1,000)	26,160	21,657	47,817

#### 2.2 Dam No.2 Lowland Model Development Project

The project cost is estimated at 166.99 million pesos as shown below. The O&M cost is estimated at 824, 800 pesos per annum. The detailed costs and work quantities are shown in Tables I.2.2 and I.2.8 to I.2.13.

		. (Unit	: P 1,000)
	Foreign	Local	
Description	Currency	Currency	Total
1. Construction Cost	74,446	41,585	116,031
1.1 Irrigation and Drainage Facilities	64,088	32,442	96,530
1.2 Rural Infrastructure Facilities	9,006	8,563	17,569
1.3 Production and Marketing Centers	1,352	580	1,932
2. O & M Equipment	144	36	180
3. Engineering Cost	8,702	2,901	11,603
4. Administration Cost	0	2,321	2,321
5. Land Acquisition and Compensation Cost	.0	4,663	4,663
6. Physical contingency	8,329	5,151	13,480
7. Price Escalation	6,488	12,232	18,720
GRAND TOTAL (P 1,000)	98,109	68,889	166,998

### 2.3 Magogon Upland Model Development Project

The project cost is at 36.86 million pesos as shown below. The O&M cost is estimated at 966,800 pesos per annum. The detailed costs and work quantities are shown in Tables I.2.3, I.2.8 and I.2.10 to I.2.13.

•		(Unit	: P 1,000)
	Foreign	Local	
Description	Currency	Currency	Total
1. Construction Cost	15,397	11,474	26,871
1.1 Rural Infrastructure Facilities	14,101	10,919	25,020
1.2 Nucleus Facilities	1,296	. 555	1,851
2. Engineering Cost	2,015	672	2,687
3. Administration Cost	0	537	537
4. Land Acquisition and Compensation Cost	0	38	38
5. Physical contingency	1,741	1,272	3,013
6. Price Escalation	1,122	2,595	3,717
GRAND TOTAL (P 1,000)	20,275	16,588	36,863

## 2.4 San Ramon Upland Model Development Project

The project cost is estimated at 35.98 million pesos as shown below. The O&M cost is estimated at 1,999,800 pesos per annum. The detailed costs and work quantities are shown in Tables I.2.4, I.2.8 and I.2.10 to I.2.13.

			(Unit	: P 1,000)
		Foreign	Local	
:	Description	Currency	Сиггенсу	Total
Ī.	Construction Cost	15,145	11,092	26,237
	1.1 Rural Infrastructure Facilities	13,135	10,231	23,366
	1.2 Nucleus Facilities	2,010	861	2,871
2.	Engineering Cost	1,968	. 656	2,624
3.	Administration Cost	. 0	525	525
4.	Land Acquisition and Compensation Cost	. 0	37	37
5.	Physical contingency	1,711	1,231	2,942
6.	Price Escalation	1,103	2,511	3,614
	GRAND TOTAL (P 1,000)	19,927	16,052	- 35,979