

FIGURE F.2-40 PROPOSED CROPPING PATTERN (IRRIGATED AREA)

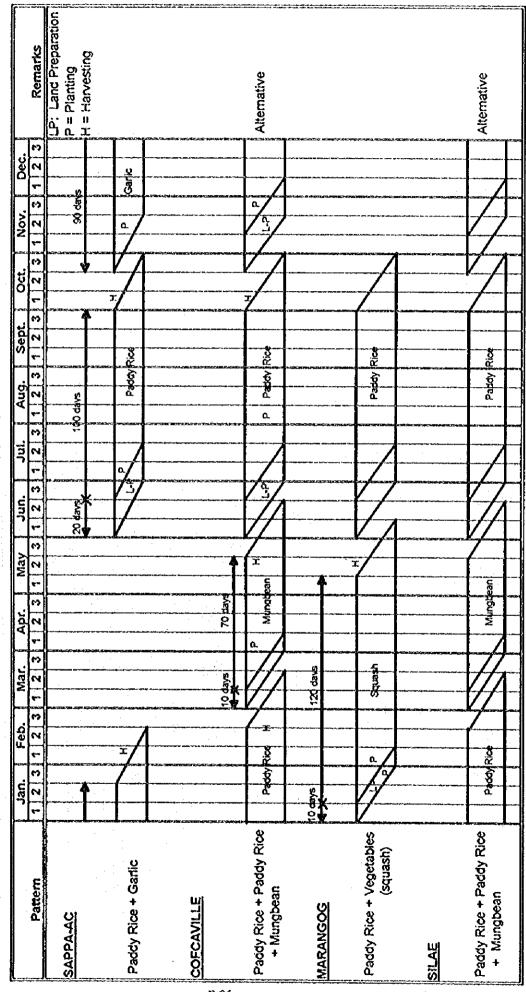
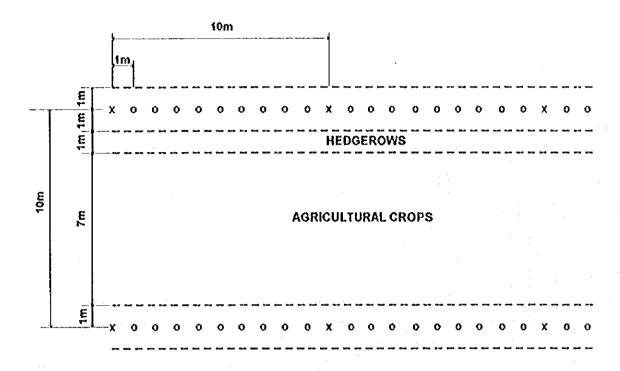


FIGURE F.2-41 PLANTING DESIGN OF FRUIT-TREE-BASED CONTOUR FARMING, (8~18% SLOPE AREA), SAPPAAC

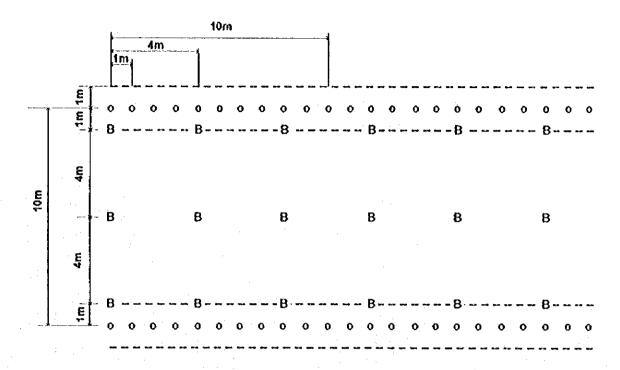


LEGEND:

	<u>SPECIES</u>	SPACING	REQUIRED SE	EDLINGS	/HA,
X	Fruit tree (Mango)	10m x 10m	100 100		:.
o	Nurse tree (Kakawate)	1m × 10m	900		
	Total		1,000		

•	Fruit tree	1 st Year 100 trees x 1m ²	=	$100 m^{2}$
		Last Year 100 tress 10,00	0m ²	
•	Nurse tree	1st Year 900 trees x 1m ²	==	900m²
•	Hedgerows plants	1st Year 1,200m²		* * * * * * * * * * * * * * * * * * *
•	Agricultural crops	10,000 - (100m² + 900m² + 1,200m²)		
		1st Year	223	7,700m²

FIGURE F.2-42 PLANTING DESIGN OF BANANA CONTOUR FARMING, (8~18% SLOPE AREA), SAPPAAC

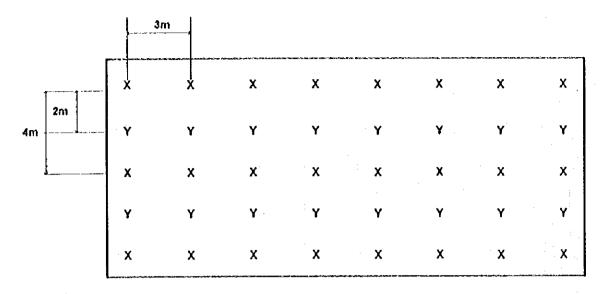


LEGEND

	SPECIES	SPACING	REQUIRED SEEDLINGS/HA.		
В	Banana	4m x 4m	750		
o	Nurse tree	1m x 10m	1,000		
	(Kakawate)				
	Total		<u>1,750</u>		

•	Nurse tree	•	1st Year 900 trees x 1m ²	= 1	1,000m ²
•	Banana		10,000 - (10,000m ²⁾		
		:	1st Year	- 1 ·	9,000m ²

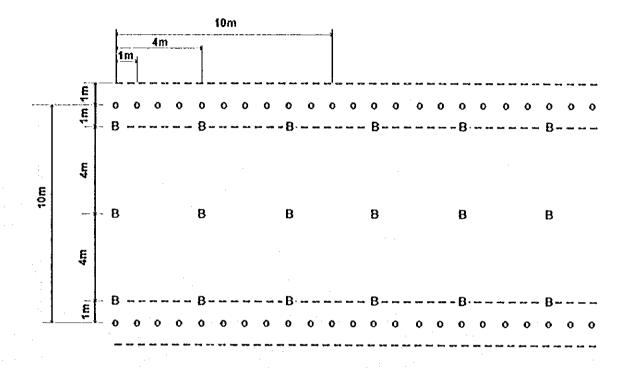
FIGURE F.2-43 PLANTING DESIGN OF PRODUCTION FOREST (18-30% SLOPE AREA), SAPPAAC



<u>LEGEND</u>	SPECIES	SPACING	REQUIRED SEEDLINGS/HA.
X	Climax trees (Mahogany)	3m x 4m	833
Y	Nurse trees (Bagras)	3m x 4m	833
	Total		<u>1,666</u>

Note: Bagras Eucalyptus deglupta

FIGURE F.2-44 PLANTING DESIGN OF BANANA CONTOUR FARMING, (8~18% SLOPE AREA), COFCAVILLE

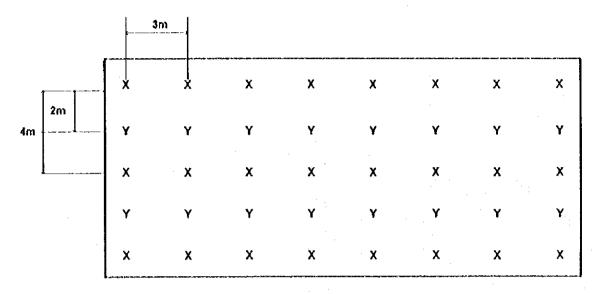


LEGEND:

SPECIES SPACING		<u>SPACING</u>	REQUIRED SEEDLINGS/HA.		
В	Banana	4m x 4m	750		
o	Nurse tree (Kakawate)	1m x 10m	1,000		
	Total		1,750		

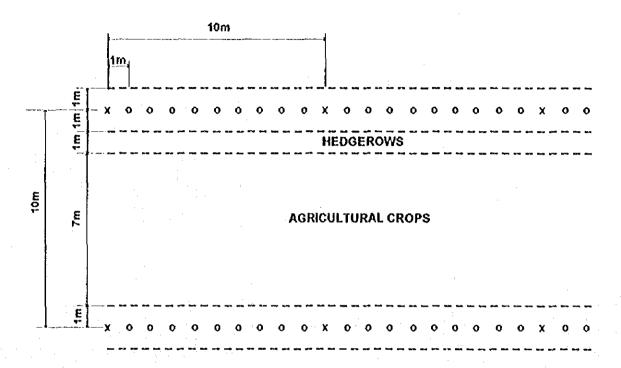
•	Nurse tree	1st Year 900 trees x 1m ²	=÷	1,000m ²
•	Banana	10,000 - (10,000m²)		
		1st Year		9,000m²

FIGURE F.2-45 PLANTING DESIGN OF PRODUCTION FOREST (18-30% SLOPE AREA), COFCAVILLE



LEGEND	SPECIES	SPACING	REQUIRED SEEDLINGS/HA.
X	Climax trees (Mahogany)	3m x 4m	833
Y	Nurse trees (Gemelina)	3m x 4m	833
	Total		<u>1,666</u>

FIGURE F.2-46 PLANTING DESIGN OF FRUIT-TREE-BASED CONTOUR FARMING, (8~18% SLOPE AREA), MARANGOG

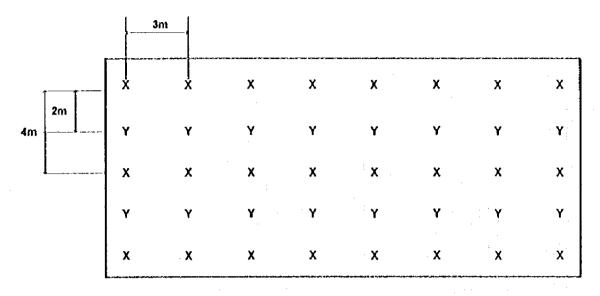


LEGEND:

	<u>SPECIES</u>	<u>SPACING</u>	REQUIRED SEEDLINGS/HA.
Χ	Fruit tree (Jackfruit)	10m x 10m	100
o	Nurse tree (Falcata)	1m x 10m	900
	Total		<u>1,000</u>

•	Fruit tree	1st Year 100 trees x 1m ²	=	100m ²
		Last Year 100 tress 10,00	0m²	
•	Nurse tree	1st Year 900 trees x 1m ²	=	900m²
•	Hedgerows plants	1st Year 1,200m ²		
•	Agricultural crops	10,000 - (100m ² + 900m ² +	1,200	m²)
	•	1st Year	=	7.700m²

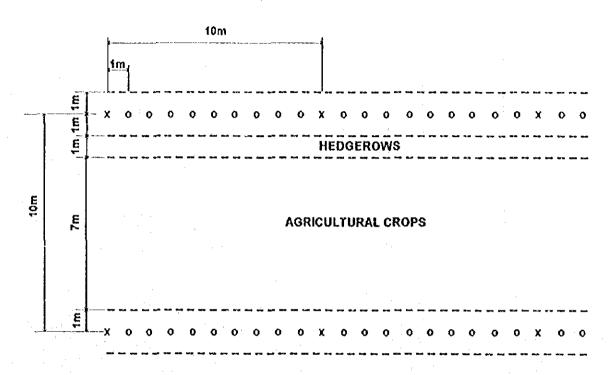
FIGURE F.2-47 PLANTING DESIGN OF PRODUCTION FOREST (18-30% SLOPE AREA), MARANGOG



<u>LEGEND</u>	<u>SPECIES</u>	SPACING	REQUIRED SEEDLINGS/HA.
X	Climax trees (Mahogany)	3m x 4m	833
Y	Nurse trees (Bagalunga)	3m x 4m	833
	Total		<u>1,666</u>

Note: Bagalunga..... Melia dubia

FIGURE F.2-48 PLANTING DESIGN OF FRUIT-TREE-BASED CONTOUR FARMING, (8~18% SLOPE AREA), SILAE



LEGEND:

•	<u>SPECIES</u>	<u>SPACING</u>	REQUIRED SEEDLINGS/HA.
X	Fruit tree (Durian)	10m x 10m	100
0	Nurse tree (Kakawete)	1m x 10m	900
	Total		<u>1,000</u>

Where, area coverage of crops are as follows:

•	Fruit tree	1st Year 100 trees x 1m ²	==	100m²
		Last Year 100 tress 10,00	0m²	
•	Nurse tree	1st Year 900 trees x 1m ²	ಪಸ	900m²
•	Hedgerows plants	1st Year 1,200m ²		
•	Agricultural crops	10,000 - (100m ² + 900m ² +	- 1,200	m²)
	•	1st Year	=	7.700m ²

Note: Falcata Paraserianthes falcataria (Linn) Nielsen

FIGURE F.2-49 PLANTING DESIGN OF PRODUCTION FOREST (MORE THAN 30% SLOPE AREA), SILAE

	i	3m						
1	X	×	x	x	x	x	X	x
4m 2m	Y	Υ.	Υ	Y	Y	Y	* Y .	Y
	x	X -	X	x	x	x	x	x
	Y	Υ	Y	Υ .	Υ	Υ ;	Y	Y
• ;	x	X	X	X	X	X	X	х

<u>LEGEND</u>	SPECIES	<u>SPACING</u>	REQUIRED SEEDLINGS/HA.
X	Climax trees (Mahogany)	3m x 4m	833
Y	Nurse trees (Bagras)	3m x 4m	833
	Total		<u>1,666</u>

Note: Bagras Eucalyptus deglupta

FARM PRACTICES AND INPUT REQUIREMENT, RICE TRANSPLANTED, (IRRIGATED) Figure F.2-50

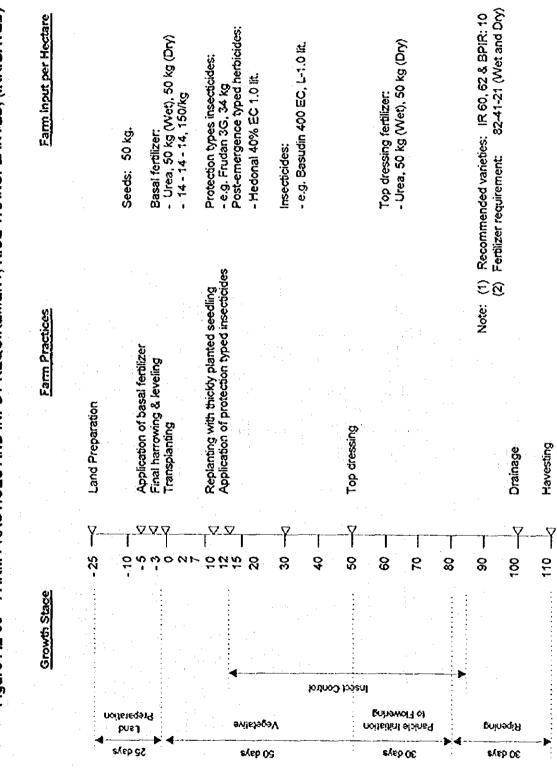


Figure F.2-51 FARM PRACTICES AND INPUT REQUIREMENT, RICE TRANSPLANTED, (RAINFED)

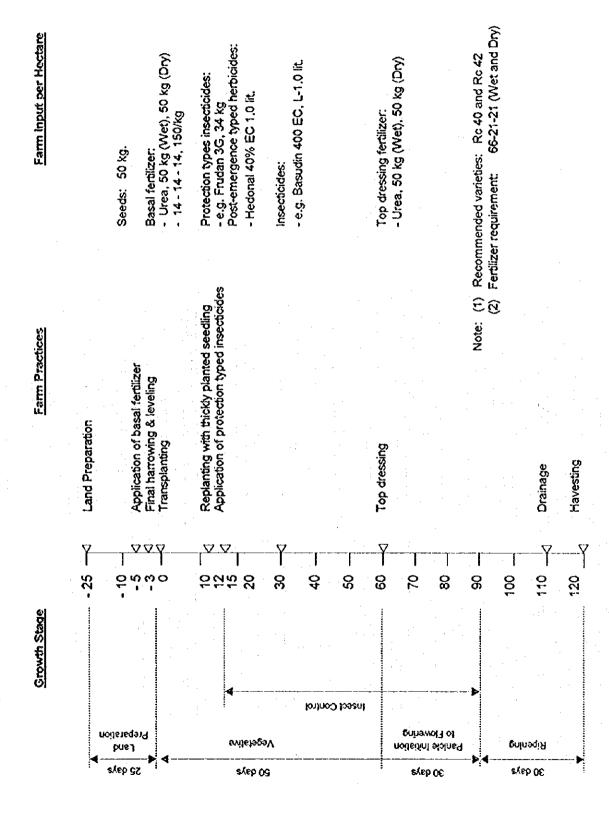
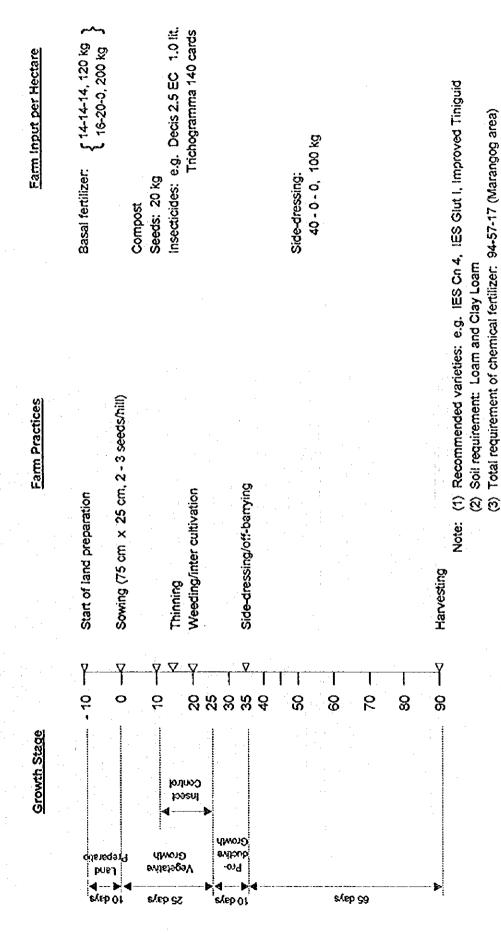


FIGURE F.2-52 FARM PRACTICE AND INPUT REQUIREMENT, CORN (WHITE)



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FARM PRACTICE AND INPUT REQUIREMENT, CORN (YELLOW) Figure F.2-53

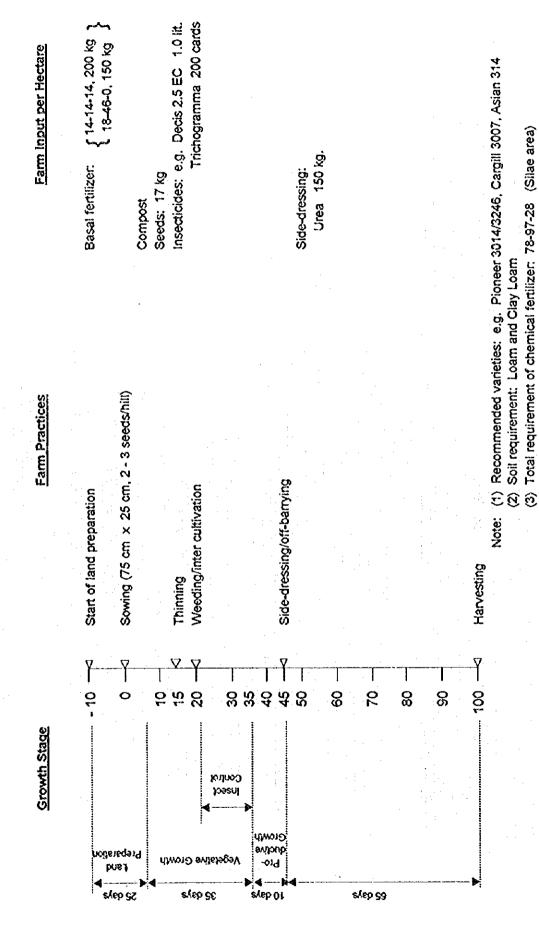
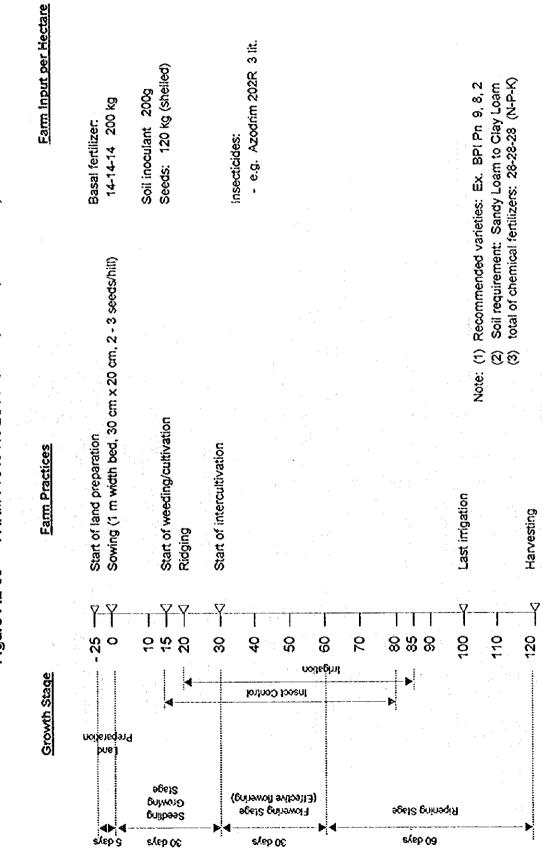


Figure F.2-54 Farm Practice and Farm Inputs, Mungbean

Farm Input per Hectare	cation Basal fertilizer:	-14-14-14, 150 kg		Lime, 1,500 kg	Seeds: 25 kg		Insecticides: e.g.	- Furadan 3G, 16 kg							Note: (1) Recommended varieties: BPI Mg 5, 7, 9 (2) Soil requirement: Clay loam to sifty loam (PH 5.8 - 6.5)	
Farm Practices	Land preparation/Basal fertilizer application		Drilling inoculated seeds at the spacing of 50 cm between rows			Thinning/Off-baring, Hilling-up/Weeding									First Harvest Note: (1	<u>.</u>
	5		V 0		1 2	5. A	기 워		- 8		4	, 20		T 8	% P	-
Growth Stage					-	***************************************	4		loų.	жэ:	pəsu		}	A. A		
	*	veb bns. -91° -91°						(s.l	eh ə eb ə idseli)			1		g qaka Weetiu	

Figure F.2-55 FARM PRACTICES AND INPUT REQUIREMENT, PEANUT



FARM PRACTICES AND INPUT REQUIREMENT, SWEET POTATOES Figure F.2-56

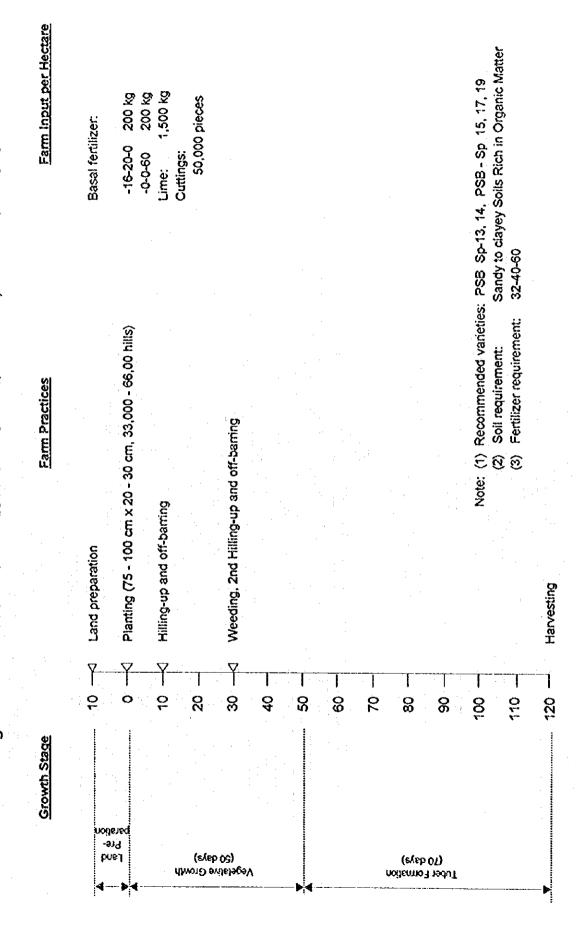
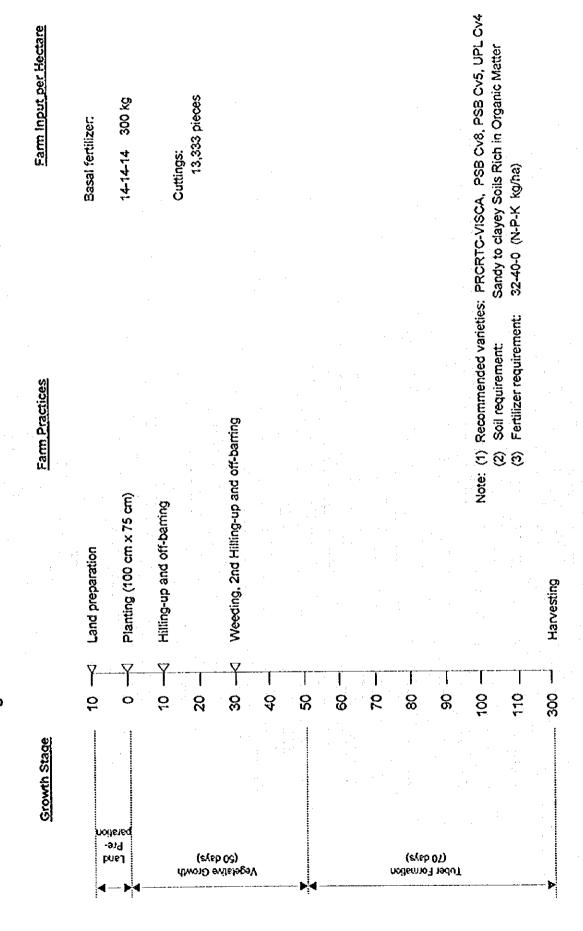


Figure F.2-57 FARM PRACTICES AND INPUT REQUIREMENT, CASSAVA



FARM PRACTICES AND INPUT REQUIREMENT, VEGETABLE (SQUASH) **Figure F.2-58**

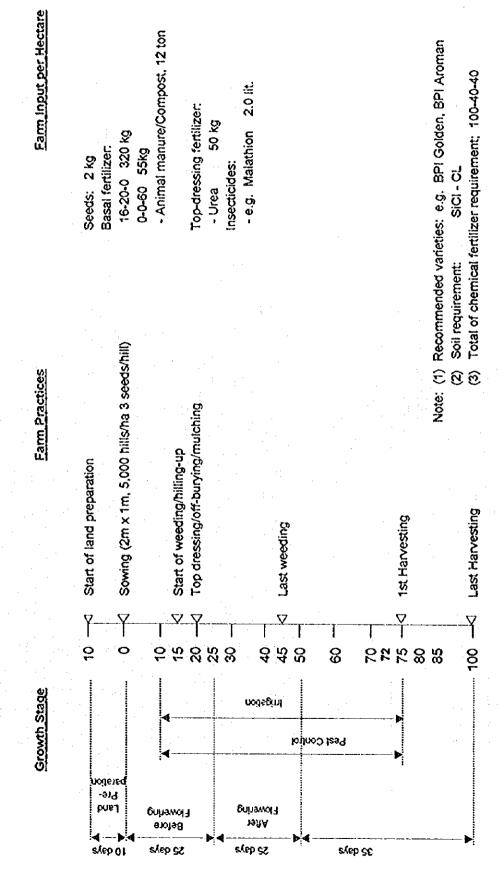
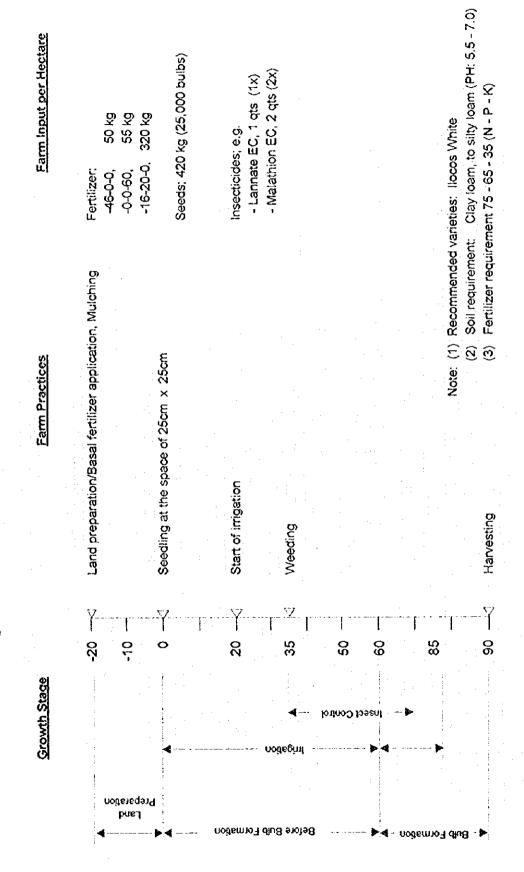
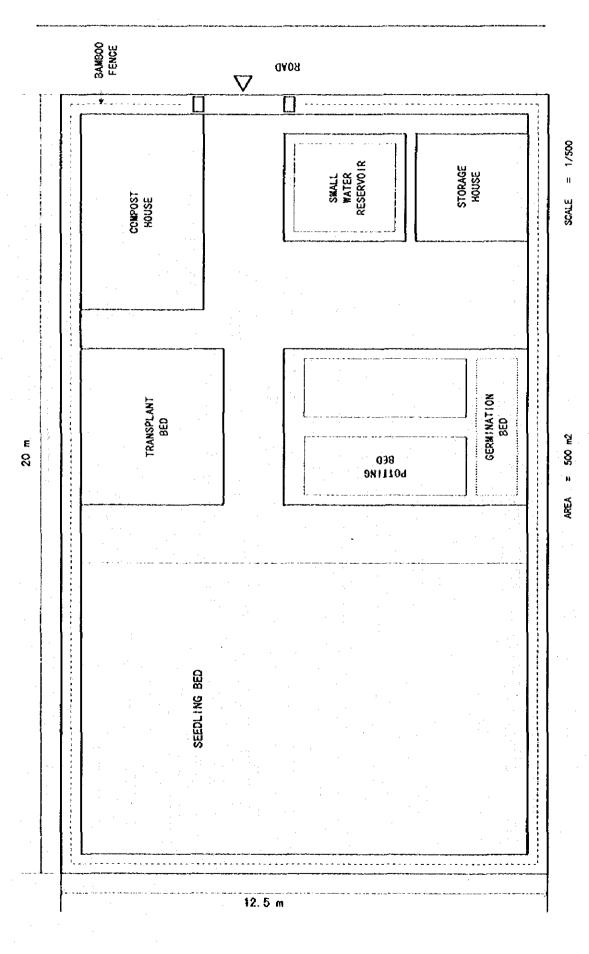


Figure F.2-59 FARM PRACTICES AND FARM INPUTS, GARLIC





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ANNEX G. ANIMAL HUSBANDRY AND INLAND FISHERIES

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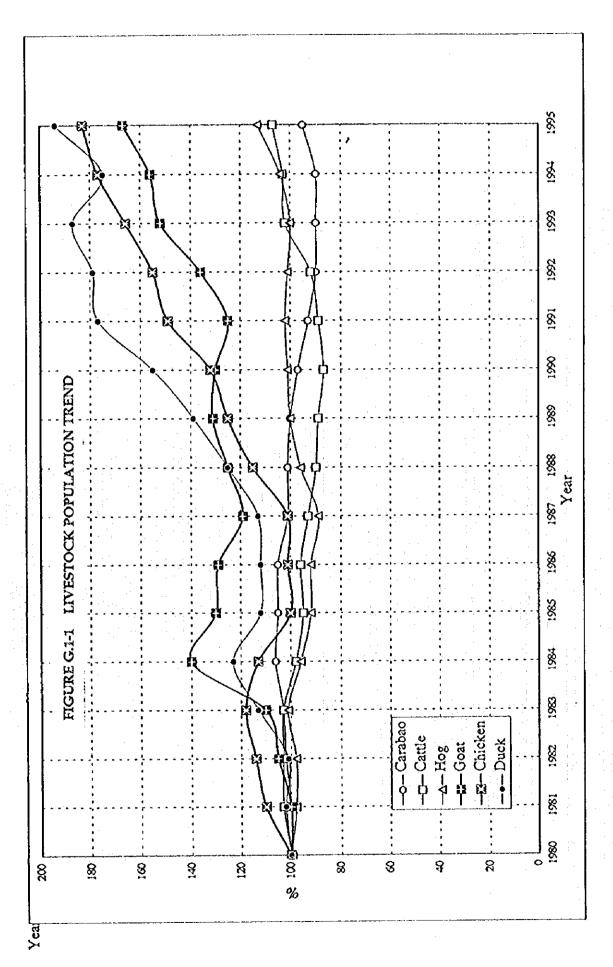
Table G.1-1 Livestock and Poultry Production in the Philippines (1980-1995)

Year	Carabao	Cattle	Hog	Goats	Chicken	Duck
						7
1980	2,849,420	1,882,860	7,933,630	1,691,250	52,567,960	4,667,010
1981	2,849,940	1,939,950	7,758,120	1,696,000	57,723,850	4,782,740
1982	2,908,450	1,941,650	7,794,610	1,783,180	59,718,310	4,710,700
1983	2,946,150	1,937,520	7,979,600	1,859,390	62,253,480	5,267,460
1984	3,021,650	1,848,950	7,612,650	2,362,010	59,160,830	5,761,160
1985	2,982,840	1,786,390	7,303,980	2,190,750	52,398,700	5,221,160
1986	2,984,450	1,814,460	7,274,830	2,176,930	53,006,580	5,207,860
1987	2,865,260	1,746,850	7,038,303	2,015,510	53,248,210	5,252,320
1988	2,890,030	1,700,010	7,580,520	2,120,110	60,321,480	5,833,270
1989	2,841,850	1,681,650	7,908,500	2,212,250	65,912,690	6,500,510
1990	2,764,950	1,629,230	7,989,990	2,192,630	69,528,470	7,236,270
1991	2,646,841	1,676,786	8,079,341	2,122,018	78,239,951	8,267,690
1992	2,576,842	1,730,670	8,021,897	2,306,380	81,525,209	8,339,808
1993	2,575,765	1,913,861	7,953,670	2,562,362	87,157,519	8,706,783
1994	2,559,664	1,936,049	8,226,529	2,632,956	93,109,711	8,186,877
1995	2,707,826	2,020,880	8,941,190	2,825,509	96,215,725	9,050,653

Source: Bureau of Agricultural Statistics, Department of Agriculture

Table G.1-2 Livestock and Poultry Population by Region, 1995

_	Region	Carabao	Cattle	Hog	Coats	Chicken	Duck Duck
CAR		100,090	61,020	251,650	21,237	1,319,477	169,161
4 1	Ilocos	161,721	231,350	402,060	26,883	5,380,226	515,704
н	Cagayan Valley	264,320	116,770	476,640	73,691	4,938,777	1,098,016
日	Central Luzon	181,893	138.480	1,235,750	163,134	15,430,550	2,045,332
2	Southern Tagalog	240,827	219,430	1,353,450	201,249	19,228,054	1,034,482
>	Bicol	266,695	122,560	519,050	102,270	3,675,045	299,221
ZA.	Western Visayas	277,066	176,520	685,870	307,174	10,478,508	1,209,498
ν. I	Central Visayas	138,134	276,650	772,310	441,625	8,462,666	230,610
VIII.	Eastern Visayas	181,064	40,260	697,780	68,731	3,960,081	216,764
×	Western Mindanso	184,130	108,250	483,170	214,342	5,203,825	308,784
×	Northern Mindanso	159,261	218,860	665,640	241,718	5,893.880	377,796
X	Southern Mindanao	234,298	171,330	1,032,430	404,110	7,558,636	716,906
X	Central Mindanao	318,327	139,400	365,390	317,395	3,929,101	805,849
NCR	:					756,899	



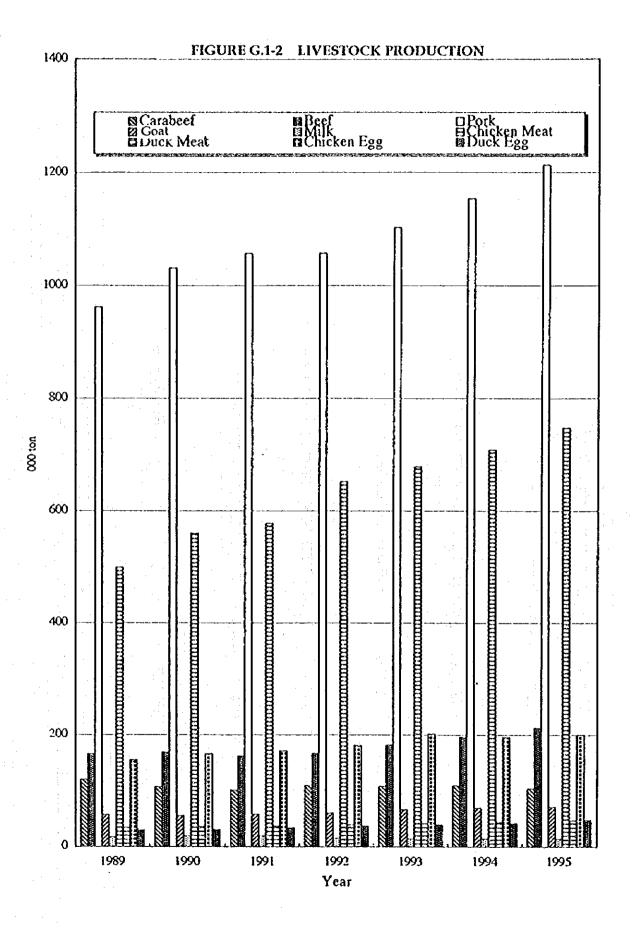


Table G.2-1 Animal Raised in the Study Area

	r			
Study Area	Sappaac	Cofcaville	Marangog	Silae
Region	CAR	Region II	Region VIII	Region X
Province	Abra	Quirino	Leyte	Bukidnon
Respondents	n = 12	n = 15	n = 7	n = 10
Vehicular Road	Good	Exsistence	None	Good
to Barangay Hall				· ·
Carabao	100 %	86 %	85 %	50 %
(Average Number)	(1.9)	(1.6)	(2.1)	(0.6)
Cattle	58 %	20 %	14 %	30%
(Average Number)	(1.2)	(0.3)	(0.2)	(0.2)
Goats	83 %	13 %	57 %	33 %
(Average Number)	(2.9)	(0.4)	(1.7)	(1.7)
Pigs	75 %	73 %	43 %	60 %
(Average Number)	(1.3)	(1.0)	(1.2)	(1.2)
Poultry	91 %	100 %	100 %	50 %
(Average Number)	(3.8)	(11.2)	(5.0)	(5.0)
Duck	8 %	•	•	
(Average Number)	(1.0)	· · · · · · · · · · · · · · · · · · ·	•	_
Horse	-	-	- 1	20 %
(Average Number)	<u></u>	<u> </u>	. =	(1.0)
Veterinary Support	Yes	Yes	No	No
Livestock Dispersal	Yes	Yes	No	No
Program				
Main Market	Bangued	Madella	Hilongos	Malaybalay
PCC Station	PCC at MMSU	PCC at CSU	PCC at VISCA	PCC at CMU
	Batac	Piat	Baybay	Musuan
	Ilocos Norte	Cagayan	Leyte	Bukidnon
FMD Incidence	Yes	No	No	No

Table G.2-2 Livestock Products Prices (As of October, 1996)

Region	Metro Manila	CAR	Region II	Region VIII	Region X
Province		Abra	Quirino	Leyte	Bukidnon
Study Area		Sappaac	Cofcaville	Marangog	Silae
Main Market	Paco Market	Bangued	Maddela	Hilongos	Malaybalay
Beef	P 130/kg	P 120/kg	P 85/kg	P 120/kg	P 100/kg
Carabeef	•	•	P 75/kg	P 110/kg	1
Pork	P 100/kg	P 90/kg	P 80/kg	P 90/kg	P 90/kg
Broiler	P 70/kg	•	P 75/kg	P 70/kg	P 65/kg
Egg (Commercial)	P 2.5-3.25/pc.	P 3.00/pc.	P. 2.50/pc.	P 2.50/pc.	P 2.50-2.75/pc.
Egg (Native)	•	P 4.00/pc.	P 3.00/pc.	P 2.50-3.50/pc.	•
Carabao Milk	•		P 35.00/liter	•	•

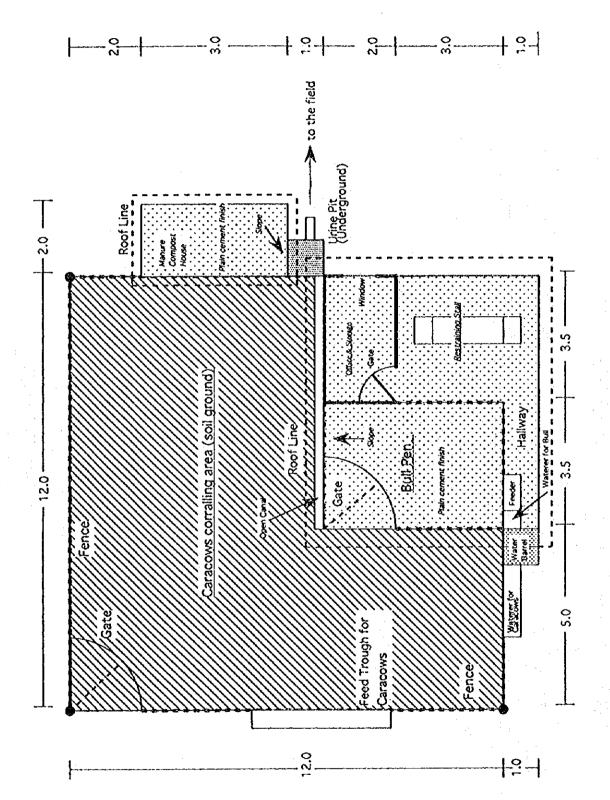
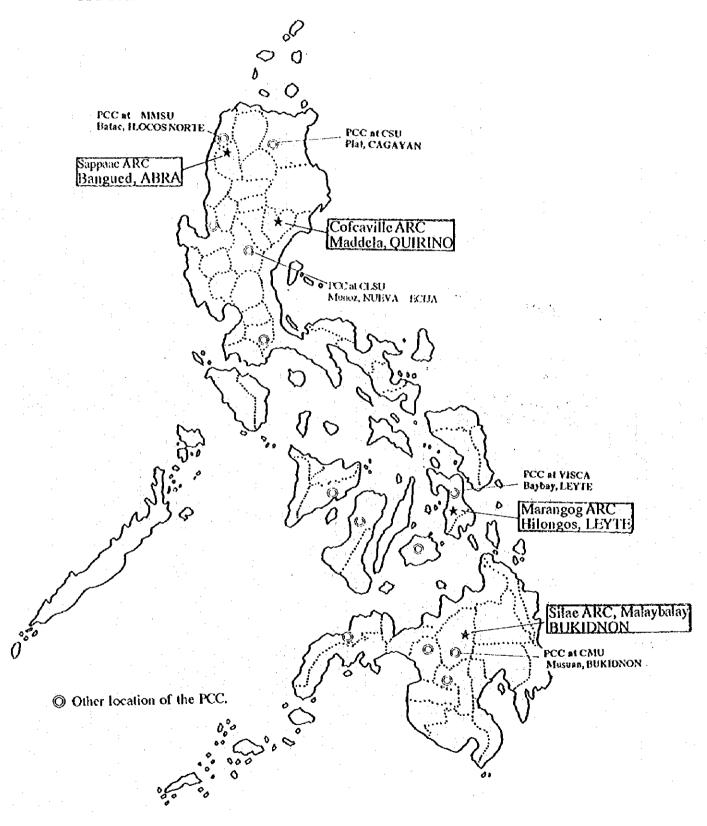


FIGURE G.2-1 LAYOUT OF BREEDING STATION (BULL CAMP)

FIGURE G.2-2 PCC NETWORK AND THE STUDY AREAS



ANNEX H. FARMERS' ORGANIZATION AND SUPPORTING SERVICES

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Area and the Respective Suppliers

Table H.2-10 Agricultural Materials Planned to be Introduced to Marangog ARC

and the Respective Suppliers

Table H.2-11 Agricultural Materials Planned to be Introduced to Silae ARC and

the Respective Suppliers

Figure H.2-1 Plan of Organizational Support Service System for Development of

Marginal Areas

Cooperatives: Philippine Experience

- 1. History of Cooperatives
- 2. Types of Cooperative Organization
- 3. Organization Structure
- 4. Success and Failure of Cooperatives
- 5. Development Plan of the Cooperative

Table H.1-1 Marketing Outlet of Farm Produce by Model Area

							- 11	(Unit: % = 50 N)
Model Area	NFA	Local Traders	Cooperatives	Merchant/ Peddlers	Direct to Consumers	Export	Home Consumption	Public Market
1. Sappa-ac ARC Bangued, Abra, CAR	00:00	24.00	00.0	00.00	12.00	2.00	00.00	00.00
2. Talugtog ARC San Juan, La Union, Region I	00.00	16.00	00.0	0.00	2.00	00:00	30.00	00.00
3. Cofcaville ARC Maddela, Quirino, Region II	00.00	100.00		0.00	6.00	0.00	00:00	00.00
4. Montilla Est. ARC, Tuyo Balanga, Bataan, Region III	00.00	72.00	0.00	0.00	40.00	00.0	00:00	8.00
5. Maulawin ARC Calauag, Quezon, Region IV	00.00	42.00	00.0	00.0	10.00	00:00	18.00	00.0
6. Pagasa ARC Tinambac, Camarines Sur								
Region V	00.00	92.00	4 00	00.00	0.0	00.0	00.00	00.0
7. Abiera Estate Altavas, Aklan, Region VI	00.0	84.00	00.0	2.00	2.00	00:00	00.00	00.00
8. San Vicente ARC Trinidad. Bohol. Region VII	00:00	74.00	26.00	0.00	4.00	0.00	00:00	00.00
9. Marangog ARC Hilongos. Levte, Region VIII	0.00	84.00	00.0	0.00	0.0	00.0	00.0	0.00
10. Silae ARC								
Malaybalay. Bukidnon Region X	00:00	92.00	00.0	2.00	00.0	0.00	0.00	2.00
11. Kipalili ARC		00 30	~	•			- 6	
12. Mat-i ARC	A	20.00	00.0	**	70.7	3	30.5	3
Surigao City, Surigao del Sur Region XIII	0.33	00.76	00 9	00 0	4	000	000	o c
Total	0.33	870.00		18.00	82.00	2.00	48.00	10.00
Average	0.03	72.50	3.00	1.50	6.83	0.17	00.4	0.83
Source: Farmer's Agro-Socio-Economic Survey.	omic Survey, JIC.	JICA Study Team, 1996	1996					

H-1

Table H.1-2 Farmers Response as to Whether Getting Reasonable Price for Farm Produce

(Unit: % = 50 N)

Model Area	Yes	No
1. Sappa-ac ARC		
Bangued, Abra, CAR	16	24
2. Talugtog ARC		
San Juan, La Union, Region I	22	10
3. Cofcaville ARC	:	
Maddela, Quirino, Region II	12	86
4. Montilla Est. ARC		
Balanga, Bataan, Region III	12	64
5. Maulawin ARC		
Calauag, Quezon, Region IV	28	30
6. Pagasa ARC		·
Tinambac, Camarines Sur	1	
Region V	52	≅44
7. Abiera Estate		
Altavas, Aklan, Region VI	22	60
8. San Vicente ARC		
Trinidad, Bohot, Region VII	30	62
9. Marangog ARC		
Hitongos, Leyte, Region VIII	8	80
10. Silae ARC		
Malaybalay, Bukidnon		
Region X	6	88
11. Kipalili ARC		:
Asuncion, Davao. Region XI	18	82
12. Mat-i ARC		
Surigao City, Surigao del		v e
Sur, Region XIII	26	74
Average	21	59

Source: Farmer's Agro-Socio-Economic Survey, JICA Study Team, 1996

Table H.1-3 Reasons Why Not Getting Reasonable Prices by Model Area

Model Area	_	MV.	Drive	Unstable	Transport	Jo Mac.I	Rion Freioht	Supply		No Group	Inaccosti-	High Farm
			Control	Price	Problem	Market Info.	Cost	Dependent	Competition	Marketing		Inputs
1. Sappa-ac ARC Bangued, Abra, CAR	ĸ	12.00	12.00	00.00	38.00	2.00	:					
2. Talugtog ARC San Juan, La Union, Region I	. Region I	2.00	6.00	2.00	14.00							
Cofcaville ARC Maddela, Quirno, Region II	Region II	62.00	4.00	00.00	96.00		00.4					00.4
4. Montilla Est. ARC Balanga, Bataan, Region III	egion III	00.11	06. ↑	9.7	44.00	36.00	·	2.00				
5. Maulawin ARC Calaug, Quezon, Region IV	tegion IV	24.00		2.00	50.00			2.00	6.00			
6. Pagasa ARC Tinambac Camarines Sur	Sur					- - - -						
Region V	}	20.00		9.4	96.00							
7. Abiera Estate Alavas, Aklan, Region VI	zion Vī	36.00	12.00	4.00	80.00						36.00	4
8. San Vicente ARC Trinidad. Bohol. Region VII	My VII	54.00			88.00					16.00		
9. Marangog ARC Hilongos, Levte, Region VIII	Sion VIII	38.00	30.00	:	86.00							
10. Silae ARC					i							
Region X	non 	80.00			78.00		:		٠.			
11. Kipalili ARC) i										
	Region XI	76.00			92.00							4.00
12. Mat-i ARC Surigao City, Surigao del	no del				:							
Sur. Region XIII		26.00	8.00	2.00	84.00							
Average		39.50	6.67	1.50	70.50	3.17	0.33	0.33	0.50	1.33	3.00	1.00

Table H.1-4 DA National Research Centers

DA Unit	National Centers/Commodity	Location
Staff Bureaus		
	·	
1. BAI	I. Alabang Stock Farm	Alabang, Metro Manila
	2. Buswanga Experimental and Breeding Station	Buswanga, Palawan
	3. National Forage and Pasture Development Center	Datiwak, Zamboanga del Sur
	4. Philippine Animal Health Center	BAI Compound, Quezon City
	5. Animal Products and By-Products Training center	Marulas, Valenzuela, Metro Manila
	6. Milagros Livestock Production Center	Milagros, Masbale
	7. Asean Sheep and Goat Dev't. Center	Pagadian, Zamboanga del Sur
	8. Palayan Stock Farm	Palayan City, Nueva Ecija
	9. Tanay Livestock Development Center	Tanay, Rizal
	10. Dumarao Stock Farm	Dumarao, Capiz
2. BFAR	National Freshwater Fisheries Technology Research Center	CLSU, Munoz, Nueva Ecija
	2. National Fisheries Biological Station Complex	Butong, Taal, Balangas
* .	3. National Brackishwater Aquaculture Technology Center	Pagbilao, Quezon
	4. Tanay Freshwater Experimental Station	Tanay, Rizal
	5. National Commercial Fisheries Development Center	Sangley Point, Cavite City, Cavite
3. BPI	1. Economic Garden Research Center	Los Banos, Laguna
	2. Central Research Station	San Andres, Manila
	3. Baguio-Baguias Research Station	Bagulo City
	4. Davao Research Center	8ago Oshiro, Davao City
	5. La Granja Rescarch Center	La Carlota City, Negros Occidental
Attached Agencies		
	The state of the s	
1. FIDA	1. Mindoro Fiber Seed and Experimental Station	Victoria, Oriental Mindoro
	2. Camarines Sur Fiber Scedbank	Tigaon, Camarines Sur
	3. Sorsogon Fiber Scedbank	Casiguran, Sorsogon
	4. Eastern Visayas Regional Fiber Experiment Station	Sta. Fe, Leyte
	5. Cablangan Fiber Seed Station	Mondragon, Northern Samar
	6. Cagbayang Abaca Seedbank	Calbayog City, Samar
	7. Zamboanga liber Regional Experiment Station and Seedbank	Labason, Zamboanga del Norte
	8. Manambulan Fiber Research and Trial Station	Manambulan, Davao City
	9. Sto. Tomas Fiber Resarch and Seed Station	Sto. Tomas, Davao del Norte
	10. Mindanao Fiber Experiment Station	Trento, Agusan del Sur
2. NAPHIRE	National Postharvest Institute for Research and Extension	Munoz, Nueva Ecija
3. PHILRICE	1. Philippine Rice Institute	Munoz, North Cotobato
	2. Midsayap Experiment Station	Midsayap, North Cotobato
	3. Cagayan Valley Experiment Station	San Mateo, Isabela

Source: Bureau of Agricultural Research, DA

Table H.1-5 Regional Integrated Agricultural Research Centers (RIARCs)

Region	Station	Development Zone	Location
I	Hocos Integrated Agricultural Research Center (ILIARC)	Lowland Irrigated, Hillyland	DMMSU Compound Bacnotan, La Union
11	Cagayan Valley Integrated Agricultural Research Center (CVIARC) formerly llagan Experiment Station	Lowland Irrigated, Hillyland	llagan, Isabela
ш	Central Luzon Integrated Agricultural Research Center (CLIARC) formerly Maria Sinukuan Stock Farm	Lowland Irrigated, Upland	Magalang, Pampanga
	Southern Tagalog Intergated Agricultural Research center (STIARC) formerly Don Manuel L. Roxas Memorial Regional Integrated Agricultural Research Station	Upland	Lipa City, Batangas
` v	Bicol Integrated Agricultural Research Center (BIARC) formerly Bicol Experiment Station	Lowland Irrigated, Lowland Rainfed	Pili, Camarines Sur
VI.	Western Visayas Integrated Agricultural Research Center (WESVIARC) formerly Visayas Experiment Station	Lowland Irrigated, Lowland Rainfed	Hamungaya, Jaro, Iloilo
VII	Central Visayas Integrated Agricultural Research Center (CENVIARC) formerly Bohol Experiment Station	Lowland Irrigated, Lowland Rainfed, Upland	Ubay, Bohol
VIII	Eastern Visayas Integrated Agricultural Research Center (EVIARC) formerly Abuyog Experiment Station	Lowland Irrigated, Upland, Hillyland	Abuyog, Leyte
ΙX	Western Mindanao Integrated Agricultural Research Center (WESMIARC) formerly Ipil Experiment Station	Lowland Rainled, Upland	lpil, Zamboanga del Sur
X .	Northern Mindanao Integrated Agricultural Center (NOMIARC) formerly Dalwangan Experiment Station	Upland, Hillyland	Dalwangan, Malay- balay,Bukindnon
ΧI	Southern Mindanao Integrated Agricultural Research Center (SMIARC) formerly Davao Experiment Station	Upland	Bago Oshiro, Davao City
XII	Central Mindanao Integrated Agricultural Research Center (CEMIARC) formerly Amas Experiment Station	Upland	Amas, Kidapawan, Noeth Cotabato
CAR	Cordillera Integrated Agricultural Research Center (CLARC) formerly Baguio Dairy Stock Farm	Upland, Hillyland	Baguio City, Benguet
ARMM			Sultan Kudarat
В	(CARAGA)		Tagbina

Source: Bureau of Agricultural Research, DA

Research and Outreach Stations (ROSs) (1/3)

Table H.1-6

Ė				7 (10 m) 1 (10 m) 1 (10 m)
VCK10H		Nenamed Switten	along the	יייייייייייייייייייייייייייייייייייייי
	Burgos Breeding Station	Highland	Burges, flocos Sur	Highland, Livestock
	Pangasinan Breeding Station	73	Sual, Pangasinan	Highland, livestock
	Batac Experimental Seed Farm		Batac, Ilocos Norte	Upland
	Research, Training & Extension Complex	1 Rainfed	Sta. Barbara, Pangasinan	Lowland Rainfed, Livestock
	Dingras Experiment Station & Seed Farm	tor Lowland Irrigated	Dingras, Ilocos Norte	Lowland Irrigated
	Marine Fintish Breeding center	for Marine/Brackish water	Alaminos, Pangasinan	Marine/Brackish water
			Other Parks of Parks	111111
=	Japaya Stock Farm	CVIARC-ROS for ramy land	V EXCAYA	Limbidud
برمصادر	Timberland Stock Farm	ror Upland	Aghpay, Cultino	Upland/Hullyland
	Basco Breeding Station	for Island Agriculture	Basco, Batanes	Rainfed Sloping, Coastal
				Land and Marine Water
	Agricultural Pilot Center	for Lowland, Rainfed/Irrigated Iguig, Cagayan	Iguig, Cagayan	Lowland Rainfed/Irrigated
				and Freshwater
	San Mateo Freshwater Fish Farm	for Freshwater	San Mateo, Isabela	Inland Aquaculture
E	KB Training Center	CLIARC-ROS for Hillyland	Pilar, Bataan	Hillyland
	Sacobia Seed Farm	for Upland	Bamban, Tarlac	Upland
	Tarlac Breeding Station	* for Lowland/Rainfed/IrrigatedSan Miguel, Tarlac	San Miguel, Tarlac	Lowland Rainfed/Irrigated
	Bamban Sea Farming & Banous Hatchery	* for Marine Water	Masinloc, Zambales	Marine Waters
	Rulacan Brachishwater Demonstration	* for Blackishwater	Haconov Bulacan	Beachichteater
	and Training Conton		, may 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2	
,	ייור דושהוהוא בנווננו	•		
	Magsaysay Memonal rish Nursery	for Freshwater	Castulejos, Zambales	reshwater
≥	Rizal Research Outreach Station	STIARC-ROS for Hillyland	Tanay, Rizal	Hillyland Medium Elevation
		(Semi-Temperate)		
	Palawan Research Outreach Station	* for Hillyland (Tropic)	Puerto Princesa City,	Hillyland Low Elevation
			Palawan	
	Quezon Research Outreach Station		Tiaong, Quezon	Upland, Coconut-Based
	Oriental Mindoro ROS	* for Lowland	Victoria, Oriental Mindord Lowland, Crops	Lowland, Crops
	Brackishwater Fisheries ROS	" for Brackishwater	Naujan/Oriental Mindord Brackishwater	Brackishwater
	Freshwater Fisheries ROS	for Freshwater	Los Banos, Laguna	Freshwater
>	Virac Seed farm	BIARC-ROS for Hillyland	Virac, Catanduances	Hillyland, Crop-Livestock
		•••		Integration, and Fishery
	Sorsogon Dairy Farm	for Upland Rainfed and	Gubat, Sorsogon	Upland Rainfed, Livestock
-1-b-n		Marine Fisheries		and Marine Waters
. 	Masbate Artificial Breeding Station	lain and	Milagros, Masbate	Upland Plain, Crop-Livestock
	-	Marine Fisheries		Integration & Marine Waters
	Albay Experiment Station	* for Upland Plain and Coastal/ Tabaco, Albay	Tabaco, Albay	Upland Plain, Crops, and
·		Marine Fisheries		Coastal/Marine Waters
	Daet Seed farm	* for Lowland Rainfed and	Daet, Camarines Norte	Lowland Rainfed, Crops, and
	But Sigh Course on Name		Bulba Commenter Cons	Brackishwater
	שלוה האו בשנוו שונה ואתואבעה	tor rrestiwater	oun, Canarines, our	resuwater

Table H.1-6 Research and Outreach Stations (ROSs) (2/3)

Nerson.		Negative Station	AOCA CION	TITAL STATE OF THE
X	Milibili Soil Conservation Unit	WESVIARC-ROS for Hillyland and Roxas City, Capiz	Roxas City, Capiz	Hillyland and Upland
	Guimaras Experiment Station	Tor Upland and Plantation Cropfordan, Cuimaras (Fruits)	Jordan, Cuimaras	Upland and Plantation Crops
	La Carlota Stock Farm	le, Swine, and Pasture	La Carlota City,	Livestock, Pasture and
	Noilo Breeding station	or Small Ruminants, Poultry,	Negros Occidental Calinog, Iloilo	Forage, and Upland Livestock, Poultry, and
	Malay Breeding Station	and Upland Crops " for Plantation Crops and Swine Malay, Aklan	Malay, Aklan	Upiand Plantation Crops & Livestock
	Himamaylan Fish Farm	* for Marine Water/ Brackishwat Himamaylan, Negros Occid	Himamaylan, Negros Occidental	Marine Water and Brackishwater
M.	Ubay Stock farm	CENVIARC-ROS for Hillyland	Ubay, Bohoi	Hillyland
	Southern Cebu Farming Systems		Argao, Cebu	Upland
	Mandaue Experiment Station		Mandaue City, Bohol	Lowland Rainfed
	Bohol Agricultural Promotions Center Calane Fishery Complex	for Lowland, Irrigated Tagbilaran Cit for Marine Water / Brackishwat Calabe, Bohol	Tagbilaran City, bohol Calape, Bohol	Lowland Irrigated Marine Waters & Brackishwater
	Carmen-Lake Danao Fishery Complex	* for Freshwater	Carmen, Cebu	Freshwater
MIIV	Romualdez Experiment Station	EVIARC-ROS for Upland farming Systems Davidonment	Babatngon, Leyte	Upland and Farming Systems
	Salcedo Seed Farm	evelopment	Salcedo, Eastern Samar	Upland and Crop-Livestock
			;	Integration
	Iriwahan Agricultural Development	Township Farming Systems	Catubig, Northern Samar	Catubig, Northern Samar Lowland, Aquade, and Farming Sustains Development
	Regional Goat and Sheep Production	ock Development	Malitbog, Southern Leyte Livestock and Upland	Livestock and Upland
	Training Center		•	
	Gandara Seed Farm	for Postharvest Production Technology Development	San Jorge, Samar	Lowland Rainfed, Crops,
	Guiuan Fishery Complex	Ĕ	Guiuan, Eastern Samar	Marine Water
ž	La Paz Experiment Station	WESMIARC-ROS for Hillyland and Vegetables	La Paz, Zamboanga City	La Paz, Zamboanga City Hillyland and Vegetables
:	Betinan Multiple Cropping Center	for Upland	Betinan, Zamboanga	Upland, Lowland Rainfed,
	Basilan Breeding Station	for Unland and Livestock	Lamitan, Basilan	Upland and Livestock
	Mindanao Livestock Production Center	* for Upland Crops and Livestock Kalawit, Zamboanga	Kalawit, Zamboanga	Upland, Crops, and Livestock
	R.T. Lim Carabao Complex	Del Norte for Acro-forestry and Livestock R.T. Lim, Zamboanza	Del Norte R.T. Lim, Zamboanga	Upland, Agro-forestry,
			Del Sur	and Livestock
	Ipil Brackishwater Demonstration Fish Farm	for Marine Water & Brackishwal pil, Zamboanga	Ipil, Zamboanga Del Sur	Marine Waters and Brachishwater

ble H.1-6 Research and Outreach Stations (ROSs) (3/3)

Į				
Negron		Kenamed Station	Location	I frasts/rnondes
×	Clavena Experiment Station	NOMIARC-ROS for Hillyland	Claveria, Misamis	Hillyland, vegetables, and
		and vegetables	Oriental	Crop-Livestock Integration
	Talacogon Service Center	" for Upland/Lowland Irrigation Talacogon, Agusan Sur	Talacogon, Agusan Sur	Upland, Lowland Imgated,
		and Cereals		and Cereals
	Bukidnon Agricultural and Fishery	* for Lowland Rainfed	Kibawe, Bukidnon	Lowland Rainfed and Crops
	Complex			
:	Mainit Artificial Breeding Center	* for Livestock	Maint, Surigao Norte	Livestock
	Kicharao Fish Farm	for Brackishwater/Freshwater	Kitcharao, Agusan Norte	Kitcharao, Agusan Norte Brackishwater, Freshwater,
		and Fish-Livestock Integration		and Fish-Livestock Integration
Carler cast	National Bangus Breeding Project	" for Marine Water/Brackishwate Baliango, Misamis		Marine Waters and
			Oriental	Brackishwater
Z Z	Tupi Experiment Station and Seed Farm	SMIARC-ROS for Plantation and	Tupi, South Cotabato	Plantation and vegetable Crops
		Vegetable Crops		
	Mati Artificial Breeding Center	* for Integrated Farming Systems Mati, Davao Oriental		Crop-Livestock-Fish Integration
u				and Upland
	Tagbina Artificial Breeding Center	granon	Tagbina, Surigao Del Sur	Tagbina, Surigao Del Sur Crop-Livestock Integration
	Davao Breeding Station	for Livestock Breeding	Bago Oshiro, Davao City Livestock and Upland	Livestock and Upland
	National Bangus Breeding center	for Marine Waters and	Sta. Cruz, Davao DelSur	Marine Waters and
		Brackishwater		Brackishwater
	Nabunturan Fershwater Development	for Freshwater	Nabunturan,	Freshwater
	Fish Farm and Nursery		Davao Province	
lix X	Torong-Torong Breeding Station	CENTARC-ROS for Livestock	Torono-Torono.	Hillyland and Fraetock
	C		ď,	
	Aroman Seed Farm	for Hillyland	· ·	Upland and Crops
	MSU-BFAR Limnological Station	* for Farm Resources	MSU Campus,	Farm Resources/Freshwater
		1		-
	Lala Brackishwater Fisheries Station	for Brackishwater		Brackishwater
	Kidapawan Experiment Station	for Upland/Plantation Crops	Kidapawan Cotabato	Upland and Plantation Crops
<u> </u>	Tabuk Breeding Station	/Upland	Tabuk Ifugao	Highland and Upland
	Kiangan Agricultural Research Station		Kiangan, Ifugao	Highland and Upland
-	Mt. Province Research & Outreach Station	ਰ	Sagada, Mt Province	Highland
	Luna Experiment and Production Station		Luna, Kalinga-Apayao	Upland
	San Isidro Fish Farm	for Freshwater	San Isidro, Abra	Freshwater and Aquaculture

Table H.1-7 Farmer's Organizations/Association by Model Area

Reg.	Study Area	Name of Associations	Year	No. of	Activities	Major Source Of Fund/Income
)			Estab.	Mem.		
CAR	CAR Sappa-ac ARC	Sappa-ac Agrarian Reform Beneficiaries	1992	42	1)Credit	n/a
		Multipurpose Cooperative			2)Training 3)Sari-sari Store	
<u>, , , , , , , , , , , , , , , , , , , </u>	Talugtog ARC	Talugtog Multipurpose Coop., Inc.	1994	45	1)Retail of consumer goods	1)Capital share
	>				2)Purchase palay from other coops	2)CBU & loan from Pro'l LGU
Ħ	Cofcaville ARC	Cofcaville Multipurpose Coop., Inc.	1991	5 9	1)Agricultural loan	n/a
			:		2)Training	
日	Montilla ARC	Tuyo Multipurpose Coop.	1661	24		1)CBU
≥	Maulawin ARC	ADAM, Maulawin	n/a	u/a	1)Credit Assistance	n/a
نـــرد ــــر ن					2)Community Strengthening	
				Ī	3)building	
>	Pagasa ARC	Pag-asa Bayanihan Farmers Multi-	1993	22	1)Swine/Cattle/Carabao breeding	1)Member contribution
		purpose Coop., Inc. (PBFMCI)			(fattening for low breeders)	2)Capital share
					2)Fertilizer trading	3)Stock
					3)Threshing	
5	Abiera ARC	Cabugao-Dalipdip Cooperative, Cabugao	1992	51	1)Consumer Store(Stopped	1)Consumer store income
					operation in 1996)	2)CBU
						3)Grain miller
7	San Vicente ARC	San Vicente Farmers Organization	2661	n/a	n/a	n/a
臣	Marangog ARC	Marangog farmers Multipurpose Coop.	1995	35	1)Multipurpose	1)Contributions of members at P100
×	Silae ARC	1)Silae United Farmers Multipurpose	1)1992		1)Consumer store, Credit finan.	1)CBU, Income generating funds
work-day.		Coop.	2)1992	2)21	2)Consumer store, Credit finan.	2)CBU, Income generating funds
tu train		2)GRUGAMA Multipurpose Coop.	3)1986	3)18	3)Consumer store	3)CBU, Income generating funds
		3)Silae Lumad Farmers				
X	Kipalili ARC	1)Kipalili ARB Multipurpose Coop.(KA RBMCO)	1)1992	1)127	1)Consumer Store, Nursery, Trading	1)CBU, Membership Contribution
1.		2)Federation of Free farmers, Kipalili	2)1990	2)28	2)Consumer Store, Production Credit 2)Membership Contribution	2)Membership Contribution
		(FFF), Nipaiin		- 1		
\frac{1}{2}	XIII Mat-i ARC	1)Mat-i MPC, Pob, Sungao	1)1995		1)Mat-i MPC, production loan	1)n/a
		2)Hubasan Matri Irrigators Consumers	2)1996	23 24 34	2) Hubasan Mat-1 Imgators Cosumers 2)n/a	2)n/ a
					ייייי וליייייי וליייייייייייייייייייייי	

Table H.1-8 Membership of People's Organization by Model Area

		Farme	Farmers Cooperative	rative	Irriga	Irrigation Association	ciation	Civil	Civil Organization	ation
Reg.	Study Area	Yes	Ŝ.	Total	Yes	°Z	Total	Yes	ž	Total
CAR	Sappa-ac ARC	31	15	46	0	22	22	2	22	24
ъ-4	Talugtog ARC	24	26	50	0	30	30	3	26	29
ㅁ	II Cofcaville ARC	25	17	42	0	38	38	18	20	38
目	Montilla ARC	24	35	39	0	19	19	Э	7	10
2	Maulawin ARC	12	8	46	0	37	37	7	32	39
>	Pagasa ARC	14	33	47	0	36	36	6	29	38
7	Abiera ARC	21	82	20	0	37	37	4	30	8,
Ŗ		40	9	46	0	30	30	0	24	24
MY MY		5	35	40	0	43	43	5	37	42
×	Silae ARC	23	19	Ş	0	38	38	21	21	42
X	Kipalili ARC	22	26	\$	0	38	38	30	12	42
艮	Mat-i ARC	25	ង	7.5	14	26	40	25	14	39
	Total	272	277	549	14	394	408	127	274	401
	%	20%	20%	100%	3%	%26	%00I	32%	%89	100%

Source: Farmers Agro-Socio-Economic Survey, JICA Study Team, 1996

Table H.1-8 Activities of Farmer's Cooperatives by Model Area

		Group	Group Marketing Of	ing Of	Group	Group Buying Of	g Of	Av	Availing Of	ž	Avail	Availing Of New	New	Å	Availing Of	č	Colle	Collective Use Of	Ö
Reg.	Study Area	Far	Farm Products	SJON	Far	Farm Inputs	ฐ	Far	Farm Credit	žię.	Seeds	Seeds/Seedlings	sgut	Farm	Farm Technology	/3ol	Farm	Farm Machinery	nery
		Ycs	S.	Total	Yes	Š	Total	Yes	ž	Total	Ϋ́cs	Š	Total	Yes	S 0	Total	Υę	S.	Total
CAR	CAR Sappa-ac ARC	Н	10	11	Н	10	11	2	10	22	3	2	5	5	2	12	0	10	10
	Talugtog ARC	0	8	ន	0	8	8	12	ដ	33	4	82	32	11	ង	33	0	33	ક્ષ
Η	Cofcaville ARC	ហ	\mathfrak{a}	8	8	24	22	17	#	33	В	ij	33	ង	#	ቷ	7	23	5;
Ħ	Montila ARC	Н	8	ដ		19	ន	0	ន	ន	ю	18	ដ	ч	19	r R	0	ឧ	ន
≥	Maulawin ARC	0	24	7.7	0	7,7	7.	·vo	18	7,		ដ	В	ы	ន	ន	7	73	23
>	Pagasa ARC	-1	12	16	٠	11	7.	80	۰	7.7	12	rv —	12	11	ın	16	10	w	13
i,	Abiera ARC	2	19	-21	'n	16	ដ	S	16	ĸ	3	16	19	ın	17	ន	↔	19	প্ল
ΙΙΛ	San Vicente ARC	17	16	33	35	81	36	တ္ထ	6	39	18	17	35	17	38	35	9	25	31
VIII	VIII Marangog ARC	0	7	7	7	1	6	71	7	6	0	1.	7	٥	7	٨	0	7	7
×	Silae ARC	13	13	28	1,1	01	27	ដ	-J*	33	ន	œ.	88	13	13	24	ы	23	2.4
×	Kipalih ARC	Ŋ	38	5 7	۲	35	42	4	37	댞	7.	83	42	ដ	3	57	7	유	42
шх	Mat-i ARC	- 7	31	38	10	30	40	8	32	8	16	24	9	8	21	4	10	27	37
	Total	55	243	298	3	234	298	115	194	309	118	183	301	118	191	312	36	2:14	280
	20	%81	%28	%001	%12	%62	100%	37%	63%	100%	39%	%19	100%	38%	829	100%	%EL	87%	100%
												ĺ				1			

Source: Farmers Agro-Socio-Economic Survey, JICA Study Team, 1996

ible H.1-9 Imigation Association by Model Area

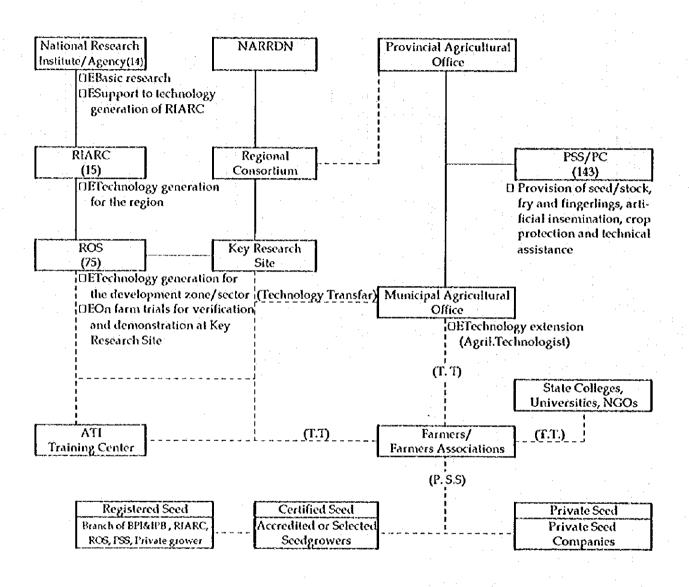
Reg.	Study Area	Name of Association	Year	No.of	Activities	Major Source Of
			Estab.	Mem.		Fund/Income
CAR	CAR Sappa-ac ARC	none				
	Talugtog ARC	none				
п	Cofcaville ARC	none				
Ë	Montilla ARC	nou				
V	Maulawin ARC	none				
>	Pagasa ARC	auou				
Ϋ́	Abiera ARC	nou				
VII	San Vicente ARC	none				
EZ.	VIII Marangog ARC	none				
×	Silae ARC	none				
×	Kipalili ARC	none				
X	XIII Mati ARC	1)Putsan-Mat-i Irrigation Association	1)1992	1)25	1)Farmers Assistance,	1)CBU
**************************************		2)Cagpangi Irrigation Association	2)1993	2)27	Seeds & Water Management	
					2)Farmers Assistance,	2)CBU
					Seeds & Water Management	

Source: Interview of Barangay Officials

Table H.1-10 Other People's Organization / Associations by Model Area

Chydr Aven	Name of Organization/	Year	No. of	Activities
Judy Alea	Association	Established	Members	
Sappa-ac ARC		1) 1974	1) 184	1)Providential funds
•	Ti Inna(Mothers		2) 53(32	2)Cleanliness, Beautification
	Group)		active)	
	3)Parents Teachers Association	3) 1996	3) 181	3)Maintenance for Elementary School
Talugtog ARC		1) 1975	1) 45	1)Fund raising for pork, Sitto improvement
	2) Talugtog Sur Couples	2) 1995	2) 60	2)Fund raising for pork, Sitio improvement
Cofcaville ARC	ub(RIC)	1) 1980	1) 70	1)Short term livelihood loans
	2)Coscaville Savings & Credit Association	2) 1993	2) 32	2)Banana production/lending
	3)Farmers Organization	3) 1994	3) 40	3) none
	4)Roman Catholic Association	4) no data	4) no data	4)Religious services
	5) Parents Teachers Association	5) no data	5) 1996	5)Maintenance of school
Montilla ARC	1)Home for the Street Children, So.	1) 1993	1) 80	1) Asistance & health care to Orphanage
	Pag-ibig			
Maulawin ARC	none		٠	
Pagasa ARC	1)Pastoral Team	1) 1975	1) 20	1)Services to religious
	2)PTA	2) 1956	2) 70	2)Services to school
Abiera ARC	none			
San Vicente ARC	1)San Vicente Farmers Association	1) no data	1) 46	1)Land ecquisition
	2)BAYANIHAN multipurpose Coop.	2)-1992	2) 108	2)Community asst through credit services
	3)Talibon Trinidad Integrated Farmers	3) 1986	3) 23%	3)Land acquisition & credit services
	Association			
	4)Small Coconut Farmers Organization	4) 1992	4) 48	4)Community assistance
	S)BOLEF	5) no data	5) no data	5) no data
	6)RIC	6) no data	6) no data	6) no data
Marangog ARC	1)Cabesilla Association	1) 1990	1) 12	1)Services to Catholic Religious Organization
	2)Parents - Teachers Association	2) 1996	1) 116	2)Maintenance of School/Feeding program, home guides
	3)Youth Action for Population and	3) 1994	3) no data	3)Youth organization, sports activities
	Development			
Silae ARC	1)Women's Association	1) no data	1) 15	1)Women's awareness & enhancement program
Kipelili ARC	1)PCA Small Farmers Association	1) 1994	1) Sg	1)Providing seedling and fertilizer
	2)Cagmay-Kristohanon-	2) 1980	2) 200	2)Clean and green
	Katılinggan(GKK)			
Mat-s	1)Mothers Club	1) 1972	1) no data	1) no data
a**	2)Bisig Bayan	2) 1985	2) no data	2) no data
	3)Catholic Women's League	3) 1958.	3) no cata	3) no data

FIGURE II.1-1 ORGANIZATION AND SYSTEMS OF RESEARCH, TECHNOLOGY DEVELOPMENT AND EXTENSION



Flow of Technology / Seeds/Seedlings

() Number of Institute/Center/Station/Staff

T.T: Technology Transfar

P.S.S: Providing Seeds/Seedlings

BPI: Bureau of Plant Industry

IPB: Institute of Plant Breeding, UPLB

RIARC: Regional Integrated Agricultural Research Center

ROS: Research Outreach Station

ATI: Agricultural Training Institute

NARRDN: National Agricultural Resources Research Development Network

PSS/PC: Provincial Service Station / Production Center

FIGURE II.1-2 ATI ORGANIZATION CHART

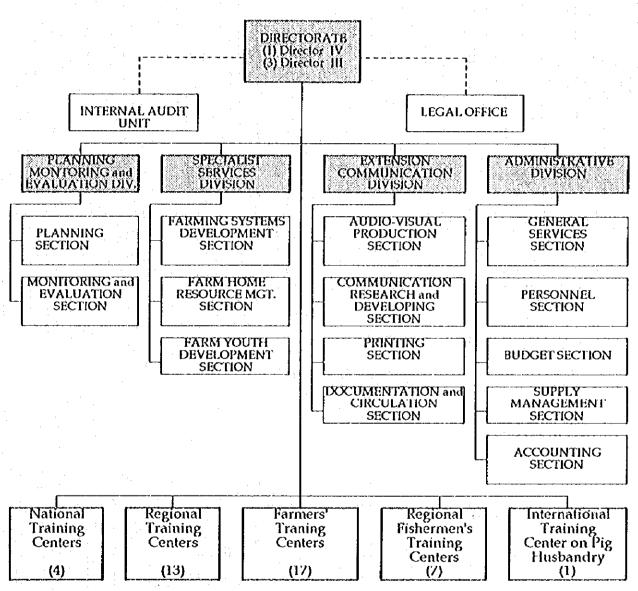


FIGURE H.1-3 LOCATION MAP OF TRAINING CENTERS

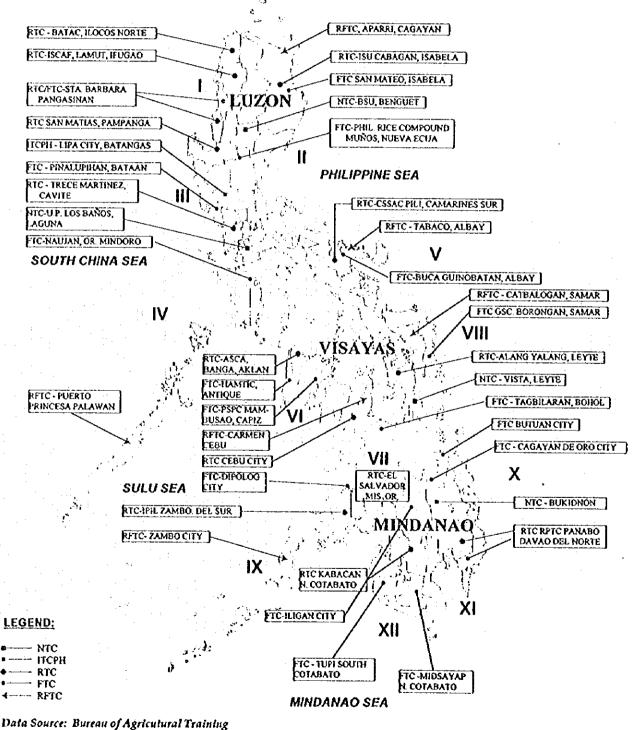


Table H.2-1 Research Organizations, Dealed Materials and Activities

Research		Materials dealing with and Activities
Organization	Materials	Crops(Grain, crops, Vegetables, Fruit trees)
Baguio NCRD	Activities	Research, Production(Seed/Seedlings), Laboratory, Extension & Training
CIARC	:	No activities presently due to establishment in 1995,
Ifugao ROS	Materials	Crops(Fancy Rice), Livestock(Poultry) Fisherics(Loach)
	Activities	Research, Production, Extension & Training
Mt. Province ROS	Materials	Crops(Semi-temperate vegetables, fruits), Livestock(Swine), Fisheries(Loach & Tilapia)
	Activities:	Research, Production, Extension & Training
Luna ROS	Materials	Crops(Onion, Banana), Livestock(Cattle, Swine), Livestock(Cattle, Swine), Fisheries(Tilapia)
	Activities	Research, Production, Extension & Training
Rizal ROS	Materials	Crops (Coffee, Rice), Livestock(Goat), Fisheries (Telapia)
	Activities	Research, Production, Extension & Training
Tayum ROS	Materials	Crops(Mango, Cashew, Coffee, Cacao)
	Activities	Seedlings propagation, Extension & Training

 Table H.2-2
 Summary of AMDP Accomplishments by Quarter, 1995

Particulars	Q1	Q2	Q3	Q4	1995Total/ Average
1. No.of Training					
GPEP	. 4	7	11	14	36
Regular	. 1	2	2	1	6
Tie-Up	3	3	2		-8
Special	1	2		1	4
FFS-Veg.		_	-	23	23
Total/Overall	9	14	15	39	77
2. NOI					
GPEP	135	291	374	483	1,283
Regular	28	55	7 3	27	181
Tie-Up	74	76	73	-	220
Special	37	76	-	32	150
FFS-Veg.	_	.	· -	(no data)	(no data)
Total	247	498	520	542	1,834
2. PMD					
GPEP	472	947	1,363	4,846	7628
Regular	84	140	213	27	464
Tie-Up	269	152	275	· -	660
Special	185	115	<u>-</u>	160	460
FFS-Veg.		_	_	(no data)	(no data)
Total	1,10	1,354	1,851	5,033	

Source: ATI, Benguet

Table H.2-3 Research Organizations, Dealed Materials and Activities

Research Organization	M	laterials dealing with and Activities
CVIARC	Materials	Crops(Rice, Corn, Sorghum, Soybean, Cowpea, Bush sitao, Pole sitao, chickpea, pigeonpea, Winged bean, Citrus, Mango), Livestock & Poultry(Cattle, goat, sheep, Swine, Chicken Ducks),
	Activities	Research development(Cropping system, Crop livestock integration, Utilization of crop by-products, Post-harvest, Farm economics, Crop protection, Soil water management etc.)
Cagayan Valley Hillyland ROS(Bagbag)	Materials	Fruit trees(Mango, Pomelo, Orange, Guayabano, Lanka), Forest trees(Ipil, Acacia aurea, Gmelina, Mahogany), Grasses(Amorseko, Talahib, Napier, Signal) Livestock(Cattle, Carabao)
	Activities	Research & development(Farming system for hillylands, Fruit tree maintenance, Assessment of fruit tree production, Production and maintenance of cattle breeder stocks, Food-forage production system, Backyard cattle production technology, Assessment of cattle production status etc.)
Aglipay ROS(Batanes)	Materials	Crops(Corn, Upland rice, Peanut, Cassava, Sweet potato, Ubi, Coffee, Mango, Calamansi, Pasture grass), Livestock(Carabao)
	Activities	Research, Plant material production(Seedlings of Mango, Coffee, Calamansi), Extension & Training

Table H.2-4 Research Organizations, Dealed Materials and Activities

Research Organization	N	Materials dealing with and Activities
		Crops (Rice, Corn, Peanut, Mungbean,
		Vegetables, Root crops, Coffee, Cacao,
	Materials	Blackpepper, Jackfruit, Durian, Mango,
EVIARC		Chico, Guava, Pomelo),
		Livestock (Guineafowl, Mallard ducks,
		Sheep Goat, Carabao, Cattle), Fish (Tilapia,
		Carp)
	Activities	Research, Production, Technical assistance
		(Extension and training), Special projects
	Materials	Crops (Rice, Corn, Root crops, Rambutan,
Babatngon ROS		Lanzoness, Mango)
	Activities	Up-land and farming system development,
	<u> </u>	Training and extension
	Materials	Corn, Forage and Pasture Crops
Malitbog ROS		Livestock (Cattle, Goats)
	Activities	Research (Livestock and up-land
		development) Breeding, Production
	Materials	Livestock (Cattle, Goats, Carabao)
Salcedo ROS	Activities	Research (Up-land and crop-livestock
		development)
	Materials	ABACA, Mushroom, Rainforest trees
VISCA(Baybay)		Research (ABACA cultivation, processing
	Activities	and markeling, Mushroom cultivation
		using Abaca Wastes, Tropical ecology)
	<u> </u>	Extension & Training

Table H.2-5 Research Organizations, Dealed Materials and Activities

Research Organization	N	Materials dealing with and Activities
	Materials	Crops (rice, corn, white potato, tomato, eggplant, pechay, beans, sweet pepper, cut flower-anthurium, mango, guava, gabi, sweet potato)
MOMIARC		Varietal trials (tomato, white potato, sweet potato, gabi, durian) Fertility trials (strawberry, corn, gladiolus) Rapid multiplication (white potato) Adaptability trial (exotic fruit trees-longan, pear, apple, citrus)
	Activities	Techno-demo Projects (rice, corn) Production & distribution of registered seeds (rice, corn) Key Commercial Crops Development Program (Production & distribution of
		quality seeds/materials: white potato, tomato, eggplant, pechay, beans, sweet pepper, anthurium, mango, guava, gabi, sweet potato)
Claveria ROS	Materials	Vegetable, Cut flowers, Root crops
	Activities	Research, Extension & Training
Kibawe ROS	Materials	Rice, Corn, Fruit trees (Rambutan, Maran, Dulian, Lanzoness, Cacao)
	Activities	Research, Production seeds/seedlings (Rice, Corn, Fruit seedlings)
Kitcharao ROS	Materials	Fresh water fish (Telapia)
	Activities	Breeding, Production (Telapia fry)
Malitbog ROS	Materials	Crops (Rice, Corn, Pasture & Forage) Livestock (Cattle, Goats, Sheep)
	Activities	Production

Research Organization		Materials dealing with and Activities
Basco ROS	Materials	Crops(Rice, Sweet potato, Garlic) Marine fish
	Activities	Research, Production, Extension & Training
Iguig ROS(Cagayan)	Materials	Crops(Rice, Legume), Fresh water fish (Telapia, Cat fish)
	Activities	Research, Production, Extension & Training
San Mateo ROS(Isabela)	Materials	Crops, Fresh water fish(Telapia, Mad fish)
: 	Activities	Research, Propagation, Extension & Training

Table H.2-6 Agricultural Materials Planned to be Introduced to Silae ARC Area and the Respective Suppliers

Materials		Supply Agency
	Cereal crops, Vegetables,	PAO, MAO
Seeds and Seedlings	Fruit trees	Tayum ROS
	Forest trees	DENR
	Carabao	PCC
Livestock	Swine	Ifugao ROS
	Goats	Luna ROS, Rizal ROS
Fry and Fingerling	Loach	Ifugao ROS
•	Tilapia	Ifugao, Luna, Rizal
		ROSs
Fertilizer and Chemicals		DAR

Table H.2-7 Techno-Demo Farm to be Established in the Each Project Area

Techno-Demo Farm	Number of	Area	Implementing	Period
	Fields	Cultivated	Agency	
Advanced Lowland	1	0.2 ha	PAO, MAO	3 years
Farming				
Advanced Upland	1	3.0 ha	PAO, MAO	5 years
Farming with SALT	<u></u>			

Table H.2-8 Details of the Farmers' Training

	Subject	Time	Venue	Agency
•	Cooperative management	Before & during cropping	Barangay	LBP, CDA, DTI
٠	Advanced rice and corn	Before & during cropping	Barangay	MAO, PAO
	cultivation			
•	SALT	Before & during cropping	Barangay	MAO, PAO, DENR
•	HVC & mango cultivation	Before & during cropping	Barangay	MAO, PAO

Table II.2-9 Agricultural Materials Planned to be Introduced to Cofcaville ARC Area and the Respective Suppliers

Materials		Supply Agency
	Cereal crops,	PAO, MAO, CVIARC
Seeds and Seedlings	Vegetables,	Tapaya RO
	Forage crops	Aglipay ROS, Tapaya ROS
	Fruit trees	DENR, Aglipay,
	Forest trees	TapayaROSs
	Carabao	PCC
Livestock	Cattle	CVIARC, Tapaya ROS
	Swine, Goats, Sheep	CVIARC
:	Chicken, Ducks	CVIARC
Fry and Fingerling	Catfish	Iguig ROS
	Tilapia	Iguig ROS, San Mateo ROS
	Mudfish	San Mateo ROS
Fertilizer and Chemicals		DAR

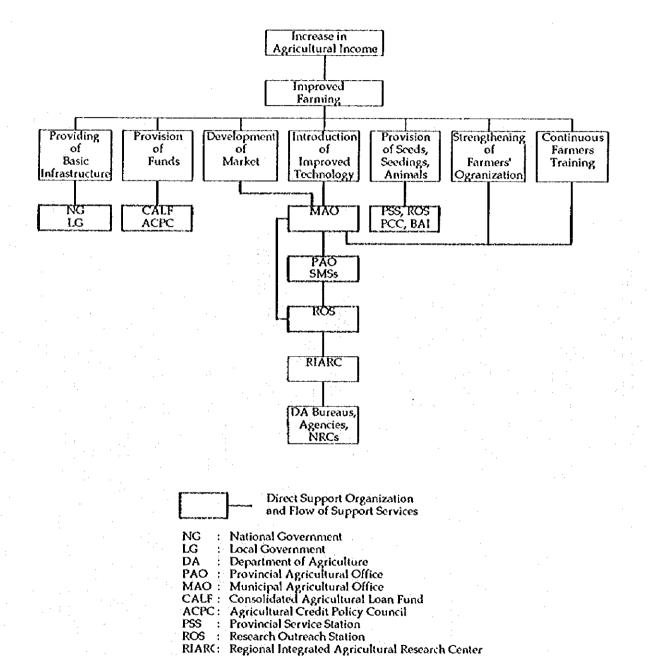
Table H.2-10 Agricultural Materials Planned to be Introduced to Marangog ARC Area and the Respective Suppliers

Materials		Support Agency
	Cereal crops, Vegetables,	PAO, MAO, EVIARC
	Forage crops	Malitbog ROS
Seeds and Seedlings	Fruit trees	EVIARC, Babatagon ROS
	Abaca corm/sucker	NARC, Private farmers
	Forest trees	DENR
	Carabao	PCC
	Cattle	EVIARC, Malitbog ROS
Livestock		Salcedo ROS
	Goals	EVIARC, Malithog ROS,
		Salcedo ROS
	Ducks	EVIARC
Fry and Fingerling	Tilapia, Carp	EVIARC
Fertilizer and Chemicals		DAR

Table H.2-11 Agricultural Materials Planned to be Introduced to Silae ARC Area and the Respective Suppliers

Materials		Support Agency
	Cereal crops and	PAO, MAO, NOMIARC,
	Vegetables	Claveria ,Kibawe ROSs,
Seeds and Seedlings		Malitbog ROS
	Forage crops	Malitbog ROS
	Fruit trees	Kibawe ROS
	Forest trees	DENR
Livestock	Carabao	PCC
	Cattle, Goats, Sheep	Malitbog ROS
Fry and Fingerling	Tilapia	Kitcharao ROS
Fertilizer and Chemicals		DAR

FIGURE H.2-1 PLAN OF ORGANIZATIONAL SUPPORT SERVICE SYSTEM FOR DEVELOPMENT OF MARGINAL AREAS



National Research Centers PCC: Philippine Carabao Center BAI : Bureau of Animal Industry

NRCs:

COOPERATIVES: PHILIPPINE EXPERIENCE

1. History of Cooperatives

Since the 1900s, cooperatives has always been a part of the Philippine experience. In 1900, the Government has launched credit schemes for the rural poor using the agricultural cooperatives as conduit. This strategy has always been used even up to the 1980's. However, the subsidized credit scheme is unsustainable so that the cooperatives formed under the program eventually collapsed when funds for credit were no longer available. During the past years, cooperative efforts were mainly the function of the Government. From the ACCFA organized in 1952 to the Samahang Nayon organized during the Marcos' Era, the farmers/population usually joined cooperatives because it was the only way they could avail of cheap credit. As a result, many cooperatives failed and collapsed once credit schemes are availed of.

In 1986, the Cooperative Development Authority (CDA) was organized. The newly formed CDA's existence was based more in providing a supportive rather than direct role in cooperative formation. The new cooperative code placed primary responsibility of cooperative development in the hands of the cooperative sector itself as wells as the involvement of private volunteer organizations such as the NGOs. The cooperative system has thus attained a substantial improvement from the past and many successful cooperatives have been recognized and are now operational.

2. Types of Cooperative Organizations

Cooperatives as to purpose are either single-purpose or multi-purpose cooperatives. Though most of cooperatives in the country are single-purpose, many cooperatives register as multi-purpose cooperatives in anticipation of diversification and expansion in the future. The common types of single-purpose cooperatives are credit, consumer, marketing, producer, services, etc. The types of cooperatives by purpose and service are presented below:

				· · · · · · · · · · · · · · · · · · ·
Туре	Purpose & Service	Capital Generation	Who Can Be Members	Customers
1. Credit	Encourage savings & provide credit (loans) at low interest.	Deposits, share capital, fixed savings		Members only

2. Consumer	Procures and distributes commodities for members and its clients	Share capital	General Public	General public
3. Services	Provide services which persons could not afford individually, e.g., housing, transport, restaurant, etc.	Share capital	General public, user of services, providers of services	General public
4. Producers	Undertake joint production whether agricultural or industrial	Share capital	Producers , ex, farmers, fishermen, craftsman	Members only
5. Workers	Produce goods through the work of members	Share capital	Skilled persons	General Public
6. Marketing/ Trading	Engaged in the supply of production inputs and others to members and markets their products	Share capital	Producers (Different products)	General Public
7. Multi- Purpose Cooperative	Combines two or more of the above-mentioned business activities	Share capital	General public/ot hers	General public

Many of the cooperatives in the country are engaged solely or predominantly in the provision of credit and the operation of consumer stores. Based on NATCCO survey of cooperatives, the Credit Cooperative and the multi-purpose cooperatives whose primary business activity is credit constituted 59% of the sample. Consumer cooperatives whose primary activity is operating consumers stores constitute 18% of the sample.

3. Organization Structure

The typical cooperative in the Philippine situation specifically in areas like the marginal areas are simple organizations with the following set-up:

A General Assembly (GA) which consist of all members of the

cooperatives in good standing with supreme and final authority in the administration and management of the affairs of the community.

A Board of Directors (BOD) elected by the GA who determines and formulates operating policies which govern the operations of the cooperative. Membership of the BOD is from five onwards. The BOD consist of a chairman, vice-chairman, treasurer, secretary, and board members.

The organization also includes the appointment and/or selection of a Manager who is tasked to manage the day-to-day operation of the cooperative activity. The Manager maybe a member of the BOD or any member of the cooperative or hired employee (for big scale cooperatives). The management group is composed of the following (but not necessarily all):

For credit cooperatives:

Manager

Bookkeeper

clerk

For consumer cooperative:

Manager

Purchaser or bookkeeper

Storekeeper

Warehouse person

The cooperatives usually organized committees to undertake particular or specific activity of the organization, the most common of which are the Education, Credit and the Supervisory Committees with the following functions:

The Education Committee conducts educational programs which includes among others the pre-membership training seminars, cooperative management principles, bookkeeping, etc.; provides the members with information concerning the operations of the cooperative; familiarize the community with general aim, purpose and philosophy of the cooperative. The Education Committee does not necessarily conduct the training itself but arrange/coordinate the education aspect of the organization.

Credit Committee is in-charge of the processing of loan application of members, exercises supervision on withdrawal and deposits of members, submits a monthly report to the BOD and annually to the members of the General Assembly, etc.

- Supervisory Committee is in-charge of the conduct of periodic and

regular examination of the operations of the cooperative, which may take the form of financial or management audit.

 The other committees usually organized depending on the activity or project of the organization are the production, marketing, consumer goods, post harvest committees, etc.

4. Success and Failures of Cooperatives

Though there are various pilot projects in government agencies and financial institutions which focuses on the basics of cooperative development and formation (promoting savings mobilization, self-reliance and other tried and tested principles of cooperatives) these projects are limited in scope and coverage. The majority therefore of cooperatives are still beset by many problems, mainly financial losses due to weak organizations.

A survey of 826 private cooperatives was undertaken by the National Confederation of Cooperatives (NATCCO) in 1992. The general finding was: (1) about 60 percent of cooperatives have government loans thus with large loan exposure; (2) 65 percent have debt to equity ratio of above three; (3) only five percent have savings or capital build-up of at least 25 percent of total assets; (4) about half have poor repayment records among members; (5) only three out of every 40 cooperatives have above average repayment records; (6) 85 percent have below average management capability. The constraints faced by these cooperatives and other cooperatives in the country in general are:

- Lack of technical skills to determine feasibility of projects, projecting cash flows, lack of properly installed accounting and monitoring system and the rudiments of business development to provide a wider range of services. Members and officials do not have the necessary skills and training due to lack time, lack of extension workers to provide necessary skills training and education, have none or limited access to acquire training and skills;
- Many cooperatives cannot provide the service needs of its members due to limited or lack of capital and non-access to credit facilities/schemes;
- Delinquency in loan repayments due to wrong values as some memberborrowers and thought that projects were dole-outs and thus deliberately defaulted on their loan payments. Other borrowers diverted their loans to non-productive purposes (food, clothing, education of children, medical expense, etc.). In some cases, lack of

proper skills and training causes failures in projects resulting to non-payment of loans. Calamities (typhoons, drought, etc.) also disable the member' capacity to meet their financial obligations;

- The members are delinquent in attending meetings and other cooperative activities as they are not aware of their responsibilities as co-owners of the cooperative;
- Many cooperatives failed to initiate programs and activities that focused on the needs of the majority of its members, such as, need for training on agricultural and livelihood activities, on business management, etc.

The fundamental cause of failure of cooperative enterprise is the lack of proper understanding of the principles and true aim of the cooperative associations and the non-adherence to them in actual operation of cooperative enterprise.

The cooperatives in the Project Areas are no different from the other cooperatives existing in the Philippines affected with the same problems and conditions. However, the conditions in the Project Area have the advantage in the sense that it is fully supported by the DAR in terms of providing full time Development Facilitators (DF) assigned specifically to assist the community and the peoples organizations. The plan to fully support the existing peoples' organization in the Project Area and to other similar marginal areas in terms of social preparation, it is expected that the cooperative organizations will become relatively organized and fully operational by the end of the plan period.

5. Development Plan of the Cooperative

The five-year development plan of the cooperative for the marginal areas can be achieved first through the social preparation activity that will be undertaken in the community by the DAR through the use of NGO and the assistance and support of other concerned agencies and institutions. However, the following activities based on past experiences should also be taken into consideration to achieve relative success and sustainability:

a) On Education and Training

 Pre-membership training (PMT) should be provided to all prospective members within the community by DAR. The PMT should be devised in such a way that the community will understand the purpose and meaning of cooperatives. Regular meetings/seminars should also be conducted for non-members so that they can see the advantages of joining a cooperative.

- A thorough re-orientation and intensive membership expansion campaign must be undertaken for inactive and new members to encourage then to actively participate in the activities of the cooperative. By nature, people are reluctant to invest in a cooperative because of lack of information regarding cooperatives. Stir up public interest through information materials, using mass media like the radio.
- A continuous and intensive education program/sessions should be conducted to improve the management and entrepreneurial skills and capability of the members/officers. Program and conduct training activities based on the needs and resources of the community. Members must be taught specific skills needed in projects and activities they want to pursue. Make the members recognize their capabilities as individuals and members of the group. Regular education sessions also facilitates group cohesion. Training and education must be supplemented by field visits. Income generating projects must be started only when the group is adequately organized and educated.
- Education and training programs should take into consideration the availability of farmer-members, hence proper scheduling and timing is necessary to get good attendance.
- Since women play impotent roles in the family and community as a whole, the women should be equipped with the skills necessary for their various roles in the family, the cooperative and the community. The women should be provided training on (but not limited to) consumer education, savings and thrift, household planning, family budgeting, livelihood skills development, business planning, introduce gender-issues to motivate them to initiate women specific projects.

b) On Economics (Financial and Management)

Management style should be participative. Members and officers should be encouraged to participate in the planning, problem solving and decision making of the organization; in the exchange of views and concerns pertinent to the operation of the cooperative and grievances, suggestions and opinions should be openly discussed. Encourage the members to attend regular meetings—and to be involved in collective endeavor/activities.

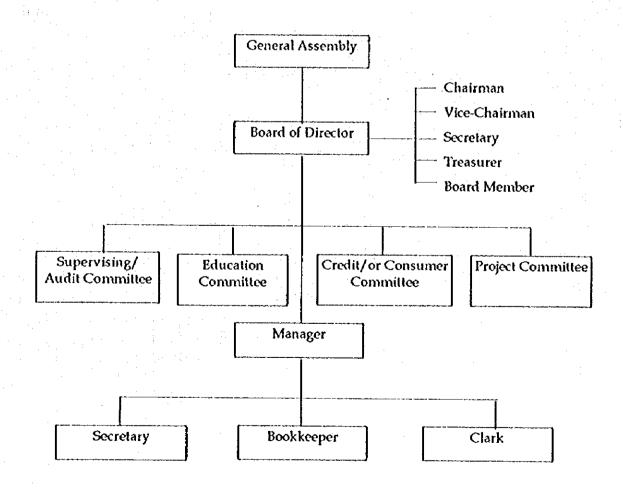
- Projects and activities should be responsive to the needs of the members to gain complete support. As needs and problems are voiced out, special activities and projects should be identified and organized.
- Financial reports should be prepared consistently, if not monthly, at least quarterly with complete audit and inventory and should be made available to the members of the cooperative for their information. This action will minimize distrust among members of the group.
- Accounting and bookkeeping systems should be simplified. The regular auditing of book of accounts should be strictly implemented to prevent irregularity and to show to the members that their investment are safe and secured.
- Increase capital build-up by pursuing savings mobilization schemes to develop self-reliance and independence. The proposed ways and means of capital build-up are intensive collection of unpaid capital share, collection of maturing and overdue loans by providing adequate control measures, increase in capital share, contribute time and talent, contribute a percentage of loan amount to the cooperative, conduct fund raising activities, etc.
- There should be planning and budgeting every year by specialized groups within the organization.
- Specified meetings should be regularly held to stir up membership interest. BOD and general staff meeting every month (separately), and general assembly at least twice a year. The meetings should be such that it becomes a forum for business and social encounter.
- Organize the group into smaller groups by functions and/or by geographical location. Members of the small group will perform specific functions as treasurer, recorded, group representative, etc. The grouping functions assigned to the members will help them become self-confident, motivate them to become responsible, enhance the capability to work as a group and also initiate group cohesiveness. Functions and responsibilities must be rotated among members of the small group so as to familiarize them with all the aspect of group activity and/or responsibility.
- Continuous and regular monitoring and evaluation even after the turnover of the project facilities should be undertaken by DAR to ascertain

that projects are implemented as planned, objectives and targets are achieved, encountered problems and issues are resolved and corrected.

c) Linkages

Linkages initially(through the assistance of DAR, LGU and NGO assigned in the Project Area) should be developed with government agencies and institutions, non-government institutions, other cooperative groups within outside the Project Area and business group. There must be strong linkage between the farmer-members, the suppliers and the final users of their products to effect continuous activity and promote income opportunities.

The expected organization structure of the cooperatives in the Project Area by the end of the plan period after the cooperatives have become self-reliant is shown below:



As the cooperative expand its activity, it is expected that the number of committees are increased. Also managers and/or officer-in-charge with support staff are appointed or employed by the cooperative. With the expansion of the organization, additional training and seminar to enhance skills to improve specific functions will have to be undertaken.

General Duties and Functions of Officers and Committees:

a) General Assembly

- Elect and remove for cause directors, officers and committee members
- Determine amendments to the Articles of Incorporations and By-Laws
- Exercise final authority on all matters vitally affecting the cooperative
- Exercise all the rights and privileges appurtenant to membership
- Arbitrate in disputes and disagreements by and between members of the Board, Committees, Officers and Members
- Others

b) Board of Directors

- Formulates policy which will govern the operation of the cooperative
- Plans for the growth and development of the cooperative
- Appoints the Manager and determine his/her compensation
- Acts on the application for membership, resignation and in some cases the expulsion of members.
- Others

Chairman:

- i) Presides over Board meetings and General Assemblies
- Signs all documents requiring his signature and sees to it that the books of accounts and other records are kept up-to-date
- iii) Countersign all checks, draft and notes drawn by the cooperative
- iv) Responsible for the production of the books of account and records at the time of audit

Vice-Chairman

- i) Performs duties of Chairman in his absence
- ii) Acts as chairman of other committees

Treasurer

- i) Acts as custodian of funds, books of accounts and other documents of the cooperative
- ii) Maintains the records of accounts (this function is turned-over to the accountant at a stage when the cooperative can afford to hire this person)
- iii) Receives deposit of members
- iv) Signs all checks, drafts, notes and other negotiable papers drawn by the cooperative

Secretary

- i) Keeps a complete lists of cooperative members
- ii) Keeps a complete records of all meetings of the Board and the GA
- iii) Furnishes the CDA of a copy of the minutes of the GA and others as maybe required by the same agency
- iv) Gives notice of all meetings

Other Board Members

- i) Performs duties of Chairman in the absence of the Chairman and Vice Chairman
- ii) Act as committee chairman for newly identified activities/projects
- iii) Perform other duties as maybe assigned by the Chairman

c) Education Committee

- Plans and programs the educational needs and requirements of the cooperative
- Familiarize the community with the aim, purpose and philosophy of the cooperative
- Provides the members with information concerning the operations of the cooperative through leaflets, publications, etc.
- Prepares and conducts (if already capable) the educational programs of the cooperatives which may include among others, the pre-membership seminar, training of members, officers, employed staff of the cooperatives, etc.

d) Credit Committee

- Plans and programs the credit needs and requirements of the group
- Process loan application of members
- Submits monthly report to the BOD and annually to the GA

e) Supervisory Committee

- Conducts periodic and regular examination of operations of the cooperative
- Prepares and submit periodic report to the BOD and GA

f) Projects Committee

- Plans and programs the projects and activities needed by the cooperative
- Upon approval of projects and activities to be undertaken, assign or designate offices and members to be involved in the project or activity
- Prepares and submit periodic report to the BOD and GA

g) Appointed or Employed Staff

Managers

- In-charge of the day-to-day operations of the activity (ex. if manager of consumer store, plans for the purchase and sale of consumer goods, keeps an inventory of the store)
- Prepares and submit periodic report to the BOD and GA

Bookkeeper

- Prepare a record of all daily transactions of the cooperative activity
- Prepares and submit periodic report to the Manager
- Prepare documents needed for the audit of the project activity involved

Clerk

- Keep records of members
- Assist members in their transaction with the concerned activity
- Does typing and administrative work
- Assist the bookkeeper