

2-2-3 Socio-economic Condition

(1) Provincial Level

The Province of Cagayan is adjoined by highlands touching Kalinga by the south and the wet lowland of Apayao on the north. The Province covers the northernmost corner of Luzon and the Babuyan Islands. Because of Cagayan river and its tributaries from which the Province is benefits by natural resources, the Province has been developed as a center of production, business and industry of Region-2. Province of Cagayan has a land area of 9,002.7 sq. km., and a population of 895,050 (as of 1995).

Major products of Cagayan are; 1) rice, corn, 2) vegetables, 3) livestock. The average annual income of the people in Cagayan is 70,359 pesos (1994).

The socio-economic feature of Cagayan is summarized in Table-2-2A-4.

(2) Municipal Level

The Study Area is located within the jurisdiction of five (5) Municipalities, namely Pamplona, Abulug, Aparri, Buguey and Sta. Teresita.

1) Significant Features

Common features in these five municipalities are fishery and rice production. Aside from these sectors, Municipality of Aparri has function as the center of fishery, business and trade of the northern coastal area of Luzon island.

2) Development Policy/Strategy

Majority of the municipalities has the priority on the development of the agricultural sector. Also, upgrading of social service and industrial development is prioritized in Aparri, while irrigation development in Sta. Teresita and Pamplona, improvement of post-harvest facilities and fishpond in Buguey, and improvement on health condition in Abulug.

Table 2-2A-4 General Socio-economic Condition Province : Cagayan

1. General Feature			
Area (ha)		9,002.7 sq.km.	
No. of City		1 (Santiago City)	
No. of Municipality		29	
No. of Barangay		820	
Population (Total)		895,050 (1996 census)	
(Labor force)		469,250 (1995)	
(by occupation)	- Agriculture	73.5%	
	- Services	22.3%	
	- Industry	4.2%	
Average Annual Income		70,359 peso (1995)	
Average Annual Expenditure		56,374 peso (1995)	
2. Products		(1996 census)	
1) Agriculture	- Palay	125,968 ha	349,009 metric tons
	- Corn	60,031 ha	107,505 metric tons
	- Coconuts	6,024 ha	24,026 metric tons
	- Peanuts	3,077ha	1,755 metric tons
	- Eggplant	274ha	1,078 metric tons
2) Forestry	- Lumber	13,545 cu.m.	
3) Fishery	- Commercial	19,901 metric tons	
	- Municipal	45,428 metric tons	
	- Aquaculture	13,402 metric tons	
4) Livestocks	- Carabao	118,404 heads	
	- Cattle	24,087	
	- Hog	232,412	
	- Goat	37,349	
	- Chicken	974,024	
	- Duck	151,787	
3. Infrastructure			
Transportation	- Road	Total 629.4km (National), 527.8km (Provincial)	
	- Ports	Sta.Ana Port (40,000 sq.m) and other 4 ports	
	- Airport	1 no.	
Communication	- Tel company	4 nos.	
	- TV Stations	14 nos.TV Stations(incl.cable TV), 7 nos.Radio St.	
Electricity	- Served	82,399 households	
	- Coverage	601 Barangay	
Rural Water Supply	- Level I	21,545 households	
	- Level II	10,732 households	
	- Level III	13,060 households	
Medical facilities	- Hospital	16 (Gov.), 3 (Private)	
Educational facilities	- College/Univ.	1 (state), 9 (Private)	
	- Highschool	103	
	- Elementary	644	
Agri/fishery facilities	- Pear	38 (major), 63 (minor)	
	- Fishpond	8 nos. (under FLA) (Total 198ha)	
	- Irrigation	11 National Systems, 154 Communal Systems	
	- Mill	173 nos.	
Source :		Family Income and Expenditures Survey, 1996, NSO Socio-Economic Profile, 1998, PPDO, Prov. Government of Cagayan	

(3) Barangay Level

The Study Area is located within eight (8) Barangays, as follows:

Municipality of Aparri (5 Brgy.)

Bisagu, Linao, Bulala Sur, Nabagan, Binalan

Municipality of Sta. Teresita (5 Brgy.)

Simpatuyo, Sinbaluca, Buyun, Centro East, Centro West

Municipality of Pamplona (7 Brgy.)

Cabaggan, San Juan, Abbanqueran, Centro, Nagtupacan, Tabba,
Tupanna

Municipality of Abulug (2 Brgy.)

Siguiran, Sto. Tomas

Municipality of Buguey (10 Brgy.)

Centro, Calamegatan, San Isidro, Cabaritan, Paddaya Weste,
Quinawegan, San Vicente, Mala Weste, Leron, Balza

1) Socio-Economic Condition

a. Population

The Barangays in the Study Area have an average of 300 household. Average number of family member ranges between 4 to 5 person.

The result of the Interview Survey by sampling 200 households from 6 Barangays in the Study Area (hereinafter referred as “the Interview Survey) shows that the average number of family member is 5.4 person (maximum 5.9 in Barangay Sinbaluca, minimum 4.6 in Barangay San Juan). Distribution by age is indicated in Table 2-2A-5 as below:

<u>Age</u>	<u>Aparri Area 6 Brgy.(%)</u>	<u>Nationwide Average (%)</u>
0 ~ 4	0.9	13.7
5 ~ 9	51.8	13.0
10 ~ 14	5.0	11.7
15 ~ 19	8.7	10.9

20 ~ 24	6.8	9.1
25 ~ 29	4.9	8.4
30 ~ 34	3.2	7.1
35 ~ 39	3.4	6.3
40 ~ 44	3.7	5.0
45 ~ 49	4.0	4.0
50 ~ 54	2.2	3.0
55 ~ 59	1.7	2.5
60 ~ 64	2.1	1.9
65 ~	1.7	3.5

b. Income Resources, Production, Marketing

Nipa gathering is the main source of income in the majority of Barangay surveyed. Rice production is limited as compared to other 2 Study Areas. Vegetable production is also common, however, limited to domestic consumption purposes due to its less production amount. Shrimp, crab and tilapia is common as fishery products. In most of the Barangays, people sell their products in the center of each Municipality, namely Pamplona, Abulug, Aparri, Buguey and Sta. Teresita.

The Interview Survey shows that 38.6% of labor force in this Area is engaged in the fishery sector, 11.3% in agricultural sector. Monthly average income is P4,917.40 while expense is P6,534.70. This average income is 1.11 times high the poverty threshold (expense necessary to secure 2,000 calories per family member) in Region-2 where Cagayan Province is located, and 1.00 times equals that of entire Philippines (average excluding National Capitol Region). Also, this average income is 0.9 times of the average income of fishery household in the Philippines (municipal, inland and fishculture fishery, excluding commercial fishing) which is P5,443.69. As for the employment style, 88.0% of the labor force in the Study Area is self-employed, 2.7 % is employed on permanent basis and 9.4% is employed on daily basis. An average 27.8% of the products from these fishery and agricultural sectors in this Area is for domestic consumed. 39 % of respondents sell their product within their Barangays, however, 74.5% replied that middlemen/traders visit their area to buy their products. This Figure is remarkably large as compared to that of other two Study Areas (22.5% in Lamon Bay Area, 39.5% in Ulugan Bay Area).

c. Infrastructures

Except Barangays in Pamplona and Buguey, most Barangays surveyed are not electrified and depend their power supply on generators. Water resource is depending on the groundwater, either shallow or deepwell, but not all Barangay have stable and safe drinking water resources. Irrigation and post-harvest facilities, as well as fishery facilities such as pier are limited in this area. Barangay hall, church, elementary school are common social infrastructure in all Barangays, however, medical services such as clinics are limited.

According to the result of Interview Survey, 97.0% of families possess the houses they are staying, 33.0% of households are electrified, and 94.1% of families have available potable water resources within their Barangay. 97.5% of households replied that they are using firewood as source of fuel, and this Figure is remarkably high as compared to other 2 Study Areas (40.0% in Lamon Bay Area, 60.7% in Ulugan Bay Area).

d. People's Organization

Religious groups and women's groups are common in all Barangays. There also exist farmer's and fishermen's association, however, their activities are at the minimum and they are not organized to have their own capital (fund). Two cooperatives were organized in this area, however, they are inactive due to financial constraint.

However, Interview Survey showed that 26.7% of households in this Area belonged to people's organizations within their Barangay, and 29.2% of households replied that they avail of loan/credits from organizations, and this Figure is comparatively high among the 3 Study Areas.

The socio-economic features of these 8 Barangays are summarized in Table-2-2A-6 as well as the summary of the result from interview survey in Table 2-2A-7.

Table 22A-3(1) Summary of Socio-Economic Conditions in Apert Areas (1)

Item	Reserve	Linear	Rutala Sub-Municipality of West	Malingan	Rinelen	Samplagan
1. Population						
a. Male	251	241	144	110	364	426
b. Female	537	503	433	533	633	431
2. Rural Infrastructure						
a. Water supply						
b. Electricity						
c. Road network						
d. Health services						
e. Education						
f. Other						
3. Socio-Economic Indicators						
a. Literacy rate						
b. Income per capita						
c. Unemployment rate						
d. Health status						
e. Education level						
f. Other						
4. Average Annual Income						
a. Production (major 2 items)						
b. Services						
c. Other						
5. Major Enterprises						
a. Manufacturing						
b. Services						
c. Other						
6. Major Organizations						
a. Government						
b. Non-Government						
c. Other						
7. Major Organizations						
a. Government						
b. Non-Government						
c. Other						
8. Institutional Framework						
a. Government						
b. Non-Government						
c. Other						

Table 2-2A-6(2) Summary of Socio-Economic conditions in Aparri Area (2)

Items	(Municipalities of Sta. Teresita <2> , Buguey <1>)					
	Sinbaluca	Buyun	Centro East	Centro West	Centro	Calamegatan
Name of Barangay	Municipality of Sta. Teresita					
1. Population						
a. Number of Household	69	240	251	270	449	104
b. Average No. of Family Member	4.36	5.22	4.83	4.77	5.22	5.15
2. Rural Infrastructure						
	Deepwell - 7	Deepwell - 5	Deepwell - 7	Shallowwell (120)	Shallowwell (many)	Shallowwell (many)
	Shallowwell - 20	Shallowwell (many)	Shallowwell - 20	50% electrified	(private)	70% electrified
	0% electrified	80% electrified	0% electrified	Irrigation System - 1	100% electrified	Irrigation System - 1
	Rice Warehouse - 1	Irrigation System - 1	Rice Warehouse - 1	Ricemill - 2 (priv.)	Solar Dryer - 2	Ricemill - 1 (priv.)
	Irrigation Canal	Ricemill - 1	Irrigation Canal	Solar Dryer - 1	Multi-purpose	Solar Dryer - 1
	Solar Dryer - 1	Solar Dryer - 3	Solar Dryer - 1		Pavement - 1	
3. Social Infrastructure						
	Primary School - 1	Barangay Hall - 1	Primary School - 1	Barangay Hall - 1	Primary School - 1	Barangay Hall - 1
	Day Care Center - 1	Day Care Center - 1	Day Care Center - 1	Day Care Center - 1	Elementary - 1	Elementary - 1
	Barangay Hall - 1	Elementary School - 1	Barangay Hall - 1	Basketball Court - 1	Highschool - 1	
	(with Clinic)	Church - 1	(with Clinic)		Barangay Hall - 1	
	Church - 1	Basketball Court - 3	Church - 1		Day Care Center - 1	
					Chuech - 3	
4. Average Annual Income	Less than P 8,044	Less than P8,044	Approx. P18,000	Approx. P18,000	Less than P7,000	Less than P7,000
5. Production (major 2 items)						
a. Forestry	1. Nipa	1. Nipa	n.a.	n.a.	1. Nipa	1. Nipa
b. Fishery	1. Tilapia	1. Tilapia	1. Tilapia	1. Mudfish	1. Crab	1. Crab
	2. Bangus	2. Bangus	2. Bangus	2. Carp	2. Shrimp	2. Shrimp
c. Agriculture	1. Rice	1. Rice	1. Rice	1. Rice	n.a.	1. Rice
	2. Mungbean	2. Eggplant	2. Eggplant	2. Eggplant		2. Eggplant
d. Others	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
6. Major Market/Shopping Place	Sta. Teresita	Camalanugan	within Barangay	Sta. Teresita	Aparri	Buguey
7. Peoples Organization	Multi Purpose Coop. (for 2 Brgy.)	Aragan-Buyun	Rice Producer's Cooperative	Paluagan	Fed. of Farmers	Barikatan
	Fishermen's Coop. (Municipal Level)	Farmer's Coop.	Farmer's Assoc.	(Micro-Credit)	Barikatan	(woman's club)
	SAPAKA (Woman's group)	Irrigator's Association	SAPAKA	Religious Groups (5)	PTA (woman's club)	PTA
		Bayanihan	Religious Group (2)	Barikatan	PTA (2)	Religious Group (3)
		SAPAKA (Woman's group)	Senior Citizen's Association	(Woman's group)	Religious Group (3)	Sr. Citizen's Club
		Senior Citizen's Association	PTA	Senior Citizen's (1)	Sr. Citizen's Club	
8. Implementation of Legal System						
a. Coastal Environmental Program	None	None	None	None	None	None
b. No. of Fishpond (Private)	15 (Total 20ha)	20 (Ave. 20ha)	15 (Ave. 1ha)	1 (2ha)	None	3 (Total 15ha)
c. Fishpond Lease Agreement	None	None	None	None	None	None
d. Mangrove Reforestation Project	None	None	None	None	None	None
e. Mangrove Stewardship Agmt.	None	None	None	None	None	None
f. Community-Based Forest Mgmt.	None	None	None	None	None	None

Table 2-2A-6(3) Summary of Soc2-2-3economic conditions in Aparri Area (3)

(Municipality of Buguey<2>)

Items	San Isidro	Cabarritan	Padtaya Weste	Quinawegan	San Vicente	Mala Weste
Municipality of Buguey						
Name of Barangay						
1. Population						
a. Number of Household	115	130	167	170	188	128
b. Average No. of Family Member	4.85	5.10	4.95	5.14	5.33	5.42
2. Rural Infrastructure						
	Deepwell -1	Deepwell -60	Deepwell -5	Deepwell -1	No water supply	Deepwell -10
	Shallowwell -8	Shallowwell -25	7% electrified	Shallowwell -many	40% electrified	100% electrified
	25% electrified	5% electrified	Ricemill - 1 (priv.)	80% electrified	Irrigation System - 1	Solar Dryer -2
	Ricemill -1 (priv.)		Solar Dryer -1	Irrigation System - 1	Multi-purpose	Multi-purpose
	Solar Dryer -1			Ricemill - 2 (priv.)	Pavement - 1	Pavement - 1
3. Social Infrastructure						
	Barangay Hall - 1	Elementary School - 1	Barangay Hall - 1	Barangay Hall - 1	Warehouse - 1(Rice)	Landing Pier - 1
	Clinic - 1	Barangay Hall - 1	Clinic - 1	Clinic - 1	Barangay Hall - 1	Barangay Hall - 1
	Day Care Center - 1	Clinic - 1	Day Care Center - 1	Day Care Center - 1	Day Care center - 1	Clinic - 1
	Elementary School - 1	Basketball Court - 1	Church - 1	Elementary School - 1	Elementary School - 2	Day Care Center - 1
	Church - 1	Church - 4	Basketball Court - 1	Church - 1	Church - 1	Elementary School - 1
			Volleyball Court - 1	Basketball Court - 1	Basketball Court - 1	Church - 1
4. Average Annual Income	Less than P 8,044	Less than P 8,044	Less than P 8,044	Less than P 8,044	Less than P 8,044	Basketball Court - 1
5. Production (major 2 items)						Less than P 8,044
a. Forestry	n.a.	1. Nipa	1. Pandan (for mat making)	1. Nipa	1. Nipa	1. Nipa
b. Fishery	1. Pusit	1. Tilapia	1. Mudfish	1. Tilapia	2. Beetlenuts	2. Beetlenuts
	2. Bangus	2. Shrimps	2. Tilapia	2. Bangus	1. Tilapia	1. Tilapia
c. Agriculture	1. Rice	1. Rice	1. Rice	1. Rice	2. Bangus	2. Bangus
	2. Eggplant	2. Eggplant		2. Coconuts	1. Rice	1. Rice
	n.a.	n.a.	n.a.	n.a.	2. Coconuts	2. Coconuts
6. Major Market/Shopping Place	Buguey	Buguey	Buguey	Brgy. Dugo	Buguey	Buguey
7. Peoples Organization	Barikatan (Woman's group)	Fishermen's Coop. RIC (woman's Group)	Farmer's Association Fisherman's Assoc. Religious Group - 1	RIC (woman's group)	Irrigator's Association Parent's Calamity Fund	Bayanihan Religious Groups (5) Woman's Group (1)
	PTA	PTA	Barikatan	PTA	Barikatan	PTA
	Religious Groups (2)	Religious Groups (2) Amoyon	(Woman's group) Senior Citizen's Association	Senior Citizen's Association	(Woman's group) PTA (2) Senior Citizen's Association	PTA
8. Implementation of Legal System						
a. Coastal Environmental Program	None	None	None	None	None	Waste Management
b. No. of Fishpond (Private)	1 (30ha)	25 (Ave. 3ha)	None	6 (Ave. 5ha)	1 (50ha)	30 (Ave. 1Sha)
c. Fishpond Lease Agreement	None	1 (3ha)	None	None	None	None
d. Mangrove Reforestation Project	None	None	None	None	None	None
e. Mangrove Stewardship Agmt.	None	None	None	None	None	None
f. Community-Based Forest Mgmt.	None	None	None	None	None	None

Table 2-2A-6(4) Summary of Socio-Economic conditions in Aparri Area (4)

Items	Leron		Balza		Cabaggan		San Juan		Abhangkueran		Centro	
	Municipality of Buguey		Municipality of Buguey		Municipality of Buguey		Municipality of Pampolona		Municipality of Pampolona		Municipality of Pampolona	
1. Population	246	59	116	111	300	600						
a. Number of Household	553	4.34	4.74	5.13	4.74	4.36						
b. Average No. of Family Member												
2. Rural Infrastructure	Deepwell -25	No water supply	Deepwell - 4	Deepwell - 5	Deepwell - 8	Deepwell (many)						
	Shallowwell -15	50% electrified	Shallowwell (many)	Shallowwell (many)	Shallowwell (many)	Shallowwell (many)						
	100% electrified	Irrigation System -1	85% electrified	100% electrified	30% electrified	100% electrified						
	Ricemill - 5 (priv.)	Ricemill - 1	Solar Dryer - 1	Rice Mill - 1	Rice Mill - 1	Ricemill - 1						
	Solar Dryer - 4	Solar Dryer - 2	Rice Mill - 1	Solar Dryer - 2	Solar Dryer - 2 (priv.)	Multi-Purpose						
	Landing Pier - 1	Landing Pier - 1	Landing Pier - 1	Landing Pier - 1	Solar Dryer - 2	Pavement - 1						
3. Social Infrastructure	Barangay Hall - 1	Barangay Hall - 1	Primary School - 1	Primary School - 1	Barangay Hall - 1	Barangay Hall - 1						
	Day Care center - 1	Elementary School - 2	Elementary - 1	Barangay Hall - 1	Clinic - 1	Day Care center - 1						
	Clinic - 1	Church - 1	Barangay Hall - 1	Day Care Center - 1	Elementary School - 1	Elementary School - 1						
	Elementary School - 1	Basketball Court - 1	(w/Clinic/Day Care)	Church - 2	Highschool - 1	Highschool - 1						
	Church - 2		Church - 1		Church - 1	Church - 1						
	Basketball Court - 2				Basketball Court - 1	Sports Center - 1						
4. Average Annual Income	Less than P 8,044	Less than P 8,044	Data not confirmed	Data not confirmed	Data not confirmed	Data not confirmed						
5. Production (major 2 items)												
a. Forestry	1. Nipa	1. Nipa	1. Nipa	1. Nipa	1. Nipa	1. Nipa						
b. Fishery	1. Tilapia	1. Tilapia	1. Crab	1. Shrimp	1. Crab	1. Crab						
	2. Bangus	2. Dalag	2. Shrimp	2. crab	2. Shrimp	2. Shrimp						
c. Agriculture	1. Rice	1. Rice	1. Coconuts	1. Rice	1. Rice	1. Rice						
	2. Coconuts	2. Banana	2. Beetenuts	2. Coconuts	2. Coconuts	2. Coconuts						
d. Others	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.						
6. Major Market/Shopping Place	Aparri	Brgy. Dugo	Sanchez Mila	Sanchez Mira	Sanchez Mira	Sanchez Mira						
7. Peoples Organization	Fishermen's Assoc.	Irrigator's Assoc.	Cabaggan Multi-	Farmer's Assn.	Farmer's Assn.	Farmer's Assn.						
	Farmer's Assoc.	Bayanihan	Purpose Coop.	Rural Improv. Club	Religious Group(1)	Religious Group(1)						
	Furnitureshop's Assoc	Religious Group (1)	Farmer's Assn.	(Woman's club)	Woman's Group	Religious Groups (4)						
	Barikatan (woman's)	Woman's Group (1)	Fishermen's Assn.	PTA	Sr. Citizen's Group	Barikatan						
	Religious Groups (2)	Senior Citizen's	CWA, PTA	Religious Group(3)	PTA	(Woman's group)						
	Senior Citizen's (1)	Association (1)	Religious Group		Bayanihan	Sr. Citizen's Club						
	OSY(Out of School Youth)	PTA	Woman's Group			PTA						
			Sr. Citizen's Group			Sports Club						
8. Implementation of Legal System												
a. Coastal Environmental Program	None	None	None	None	None	None						
b. No. of Fishpond (Private)	30 (Total 15ha)	1 (175ha), 5 backyard	1 - 0.5 ha	None	1 - 1 ha	None						
c. Fishpond Lease Agreement	None	None	None	None	None	None						
d. Mangrove Reforestation Project	None	None	None	None	None	None						
e. Mangrove Stewardship Agmt.	None	None	None	None	None	None						
f. Community-Based Forest Mgmt.	None	None	None	None	None	None						