

Table 2-2A-6(5) Summary of Socio-economic conditions in Aparri Area (5)

		(Municipalities of Pamplona <2> , Abulug)					
Name of Barangay		Municipality of Pamplona		Municipality of Abulug			
Items	Nagtupacan	Tabba	Tupama	Santo Tomas	Siguiran		
<b>1. Population</b>							
a. Number of Household	75	128	111	159	266		
b. Average No. of Family Member	4.36	4.36	5.13	4.36	4.02		
<b>2. Rural Infrastructure</b>							
	Deepwell -5	Deepwell -3	Deepwell -1	Deepwell -3	Deepwell -4		
	Shallowwell -4	Shallowwell -40	Shallowwell -30	Shallowwell -80	Shallowwell -20		
	18% electrified	45% electrified	90% electrified	60% electrified	0% electrified		
	Multi-Purpose	Generator - 1 (priv.)	Generator - 1 (priv.)	Ricemill - 1 (priv.)	Rice Mill - 2		
	Pavement - 1	Multi-Purpose Pav. - 1	Solar Dryer - 2	Multi-purpose	Solar Dryer - 2		
		Landing Pier - 1	Warehouse - 30(Nipa)	Pavement - 1			
<b>3. Social Infrastructure</b>							
	Barangay Hall - 1	Barangay Hall - 1	Barangay Hall - 1	Barangay Hall - 1	Primary School - 1		
	(with Clinic)	Clinic - 1	(with Clinic)	Elementary School - 1	Elementary - 1		
	Day Care Center	Elementary School - 1	Day Care Center - 1	Church - 1	Church - 4		
	Church - 2	(w/ Day Care Center)	Church - 2	Basketball Court - 2	Barangay Hall - 1		
	Basketball Court - 1	Church - 2	Elementary School - 1		Day Care Center - 1		
		Basketball Court - 1	Basketball Court - 1		Clinic - 1		
4. Average Annual Income	Less than P 8,044	Less than P 8,044	Data not confirmed	Less than P 8,044	No data available		
<b>5. Production (major 2 items)</b>							
a. Forestry	1. Nipa	1. Nipa	1. Nipa	1. Nipa	1. Nipa		
	2. Beetlenuts	2. Beetlenuts	2. Beetlenuts	2. Beetlenuts	2. Beetlenuts		
b. Fishery	1. Maya-maya	1. Crabs/Shrimps	1. Shrimp	1. Malaga	1. Shrimp		
	2. Crab	2. Malaga	2. Crab	2. Tilapia	2. Dilis		
c. Agriculture	1. Eggplant	1. Rice	1. Rice	1. Vegetable (various)	1. Rice		
	2. Stringbeans	2. Corn	2. Coconuts	2. Rice	2. Squarsh		
d. Others	n.a.	n.a.	n.a.	n.a.	n.a.		
<b>6. Major Market/Shopping Place</b>							
	Sanchez Mira	Sanchez Mira	Sanchez Mira	Brgy. Corba	Abulug		
<b>7. Peoples Organization</b>							
	Fishermer's Coop.	Farmer's Assoc.	Farmer's Assn.	Fishermer's Assoc.	Muro Multi-Purpose		
	Religious Groups (2)	Fishermer's Assoc.	Religious Group(2)	Religious Group	Cooperative		
	Sr. Citizen's Group	Religious Groups (2)	Woman's Group	RIC (Woman's Group)	Charity Woman's Lg.		
	Bayanihan	Sr. Citizen's Club	Sr. Citizen's Group	Sr. Citizen's Club	PTA		
		Woman's Group	PTA	PTA			
		PTCA					
		PYA (PAGASA					
		Youth Assoc.)					
<b>8. Implementation of Legal System</b>							
a. Coastal Environmental Program	None	None	None	None	None		
b. No. of Fishpond (Private)	3 (Ave. 0.5ha)	None	3 (Ave. 50 sq.m)	None	4 - 4ha		
c. Fishpond Lease Agreement	None	None	None	None	None		
d. Mangrove Reforestation Project	None	None	None	None	None		
e. Mangrove Stewardship Agmt.	None	None	None	None	None		
f. Community-Based Forest Mgmt.	None	None	None	None	None		

**Table 2-2A-7 : Detailed Socio-economic Condition (Aparri Area)**

Area Code	Municipality Code	Barangay Code	Site/Purok/Zone Code	GENERAL		MAJOR INCOME SOURCE						EXPENSES	OTHER ECONOMY			LIVING CONDITION				FISHPOND		
				Average Number of Family Member	Dominant Language/Dialect	Average Monthly Income (in Pesos)	Major Source of Income	- Fishery Sector (%)	- Dominant Products	Major Source of Income	- Agricultural Sector (%)		- Dominant Products	Major Source of Income	- Other Sources (%)	Average Monthly Expenses (in Pesos)	Self-consumption of Products (%)	Availability of Loan/Credits (%)	Being member of Cooperatives/Organization (%)	Having own Houses (%)	Availability of Electricity from Local Electric Service Coop. (%)	Availability of Potable Water (%)
A	Total			5.4	Ibanag	4,917.54	38.6	Fish	11.3	Rice	50.1	6,534.68	27.8	29.2	26.7	97.0	33.0	94.1	97.5	3.5	2.0	49.5
A	STS	SBC	Total	4.6	Ilocano	5,191.23	11.5	Fish	69.2	Rice	19.2	14,795.90	31.4	28.6	71.4	85.7	0.0	85.7	92.9	42.9	28.6	85.7
			SBC-1	3.5	Ilocano	8,771.50	0.0	n.a.	66.7	Rice	33.3	5,916.80	32.5	0.0	100.0	50.0	0.0	100.0	50.0	0.0	0.0	100.0
			SBC-2	4.0	Ilocano	3,860.50	25.0	Fish	75.0	Rice	0.0	5,175.00	25.0	0.0	0.0	100.0	0.0	100.0	100.0	0.0	0.0	0.0
			SBC-3	5.5	Ilocano	8,053.25	0.0	n.a.	100.0	Rice	0.0	35,359.63	37.5	100.0	100.0	100.0	0.0	50.0	100.0	50.0	50.0	50.0
			SBC-4	6.0	Ilocano	4,275.88	0.0	Shrimps	50.0	Rice	50.0	29,224.50	32.5	0.0	100.0	100.0	0.0	50.0	100.0	100.0	50.0	0.0
			SBC-5	5.0	Ilocano	4,199.50	0.0	n.a.	80.0	Rice	20.0	3,280.38	45.0	50.0	50.0	100.0	0.0	100.0	100.0	100.0	50.0	50.0
			SBC-6	3.0	Ilocano	3,287.50	0.0	n.a.	66.7	Rice	33.3	11,472.00	17.5	0.0	50.0	50.0	0.0	100.0	100.0	50.0	50.0	50.0
			SBC-7	5.0	Ilocano	3,890.50	100.0	Tilapia	0.0	Rice	0.0	13,143.00	30.0	50.0	100.0	100.0	0.0	100.0	100.0	50.0	50.0	50.0
A	APR	LNO	Total	5.5	Ibanag	4,896.82	36.7	Fish	0.0	n.a.	63.3	4,985.44	11.7	43.0	4.3	97.8	43.5	96.2	93.5	0.0	0.0	43.5
			LNO-1	4.9	Ibanag	5,394.08	29.4	Fish	0.0	n.a.	70.6	4,849.60	1.4	70.0	10.0	87.5	12.5	87.5	62.5	0.0	0.0	12.5
			LNO-2	5.6	Ibanag	6,502.86	46.2	Fish	0.0	n.a.	53.8	3,818.57	7.9	1.0	0.0	100.0	14.3	100.0	100.0	0.0	0.0	85.7
			LNO-3	6.5	Ibanag	5,407.50	42.9	Fish	0.0	n.a.	57.1	6,581.38	5.6	80.0	0.0	100.0	87.5	100.0	100.0	0.0	0.0	37.5
			LNO-4	5.5	Ibanag	2,966.67	30.0	Fish	0.0	n.a.	70.0	4,024.33	11.7	30.0	0.0	100.0	86.7	100.0	100.0	0.0	0.0	33.3
			LNO-5	5.0	Ibanag	3,754.29	29.4	Fish	0.0	n.a.	70.6	4,520.19	22.9	0.0	0.0	85.7	28.6	85.7	85.7	0.0	0.0	0.0
			LNO-6	4.0	Ibanag	3,334.50	54.5	Fish	0.0	n.a.	45.5	3,961.33	12.5	80.0	0.0	100.0	33.3	100.0	100.0	0.0	0.0	50.0
			LNO-7	6.4	Ibanag	5,846.82	25.0	Fish	0.0	n.a.	75.0	6,319.42	24.0	40.0	20.0	100.0	60.0	100.0	100.0	0.0	0.0	100.0
A	APR	BSG	Total	5.5	Ibanag	6,730.77	58.8	Fish	0.0	n.a.	41.2	7,319.16	19.8	20.0	15.9	95.8	37.5	92.3	100.0	2.1	0.0	41.7
			BSG-1	6.7	Ilocano	4,284.50	81.8	Fish	0.0	n.a.	18.2	6,062.67	23.3	0.0	0.0	100.0	33.3	83.3	100.0	0.0	0.0	83.3
			BSG-2	5.8	Ibanag	8,374.29	82.6	Fish	0.0	n.a.	17.4	8,713.54	14.3	30.0	3.5	100.0	46.4	85.7	100.0	0.0	0.0	39.3
			BSG-3	4.1	Ibanag	3,335.25	13.3	Fish	0.0	n.a.	86.7	4,548.02	26.4	0.0	30.0	75.0	37.5	100.0	100.0	0.0	0.0	12.5
			BSG-4	5.2	Ibanag	6,034.67	7.7	Fish	0.0	n.a.	92.3	5,763.43	33.3	50.0	30.0	100.0	0.0	100.0	100.0	16.7	0.0	50.0

A	ABL	SGR	Total	4,704.41	39.6	Fish	4.5	Rice	55.9	5,135.77	27.5	13.3	10.0	100.0	0.0	100.0	96.1	0.0	0.0	47.1
			SGR-1	4,766.67	68.2	Fish	0.0	n.a.	31.8	5,829.23	18.3	20.0	0.0	100.0	0.0	100.0	100.0	0.0	0.0	91.7
			SGR-2	5,212.10	40.8	Fish	0.0	n.a.	59.2	5,009.46	24.5	20.0	30.0	100.0	0.0	100.0	100.0	0.0	0.0	33.3
			SGR-3	2,929.11	0.0	Crabs	27.8	Rice	72.2	4,632.20	50.0	0.0	0.0	100.0	0.0	100.0	77.8	0.0	0.0	33.3
A	PAM	CBG	Total	3,117.36	37.8	Shrimps	13.5	Rice	48.6	6,214.11	43.6	28.3	48.3	95.2	61.9	100.0	100.0	0.0	0.0	76.2
			CBG-1	3,066.66	20.0	Fish	60.0	Rice	20.0	5,771.63	33.8	30.0	50.0	100.0	50.0	100.0	100.0	0.0	0.0	75.0
			CBG-2	2,658.00	60.0	Shrimps	20.0	Rice	20.0	4,941.50	25.0	0.0	50.0	100.0	100.0	100.0	100.0	0.0	0.0	100.0
			CBG-3	3,976.67	50.0	Crabs	0.0	n.a.	50.0	6,425.43	83.3	30.0	30.0	100.0	0.0	100.0	100.0	0.0	0.0	33.3
			CBG-4	3,998.75	50.0	Shrimps	0.0	n.a.	50.0	8,917.00	68.8	30.0	80.0	75.0	75.0	100.0	100.0	0.0	0.0	75.0
			CBG-5	2,587.50	20.0	Fish	0.0	n.a.	80.0	5,799.50	6.3	80.0	30.0	100.0	75.0	100.0	100.0	0.0	0.0	75.0
			CBG-6	2,145.50	42.9	Shrimps	14.3	n.a.	42.9	4,750.75	65.5	0.0	50.0	100.0	50.0	100.0	100.0	0.0	0.0	100.0
A	PAM	SUB	Total	2,855.48	16.7	Shrimps	38.1	Rice	45.2	6,395.13	65.8	41.7	10.0	100.0	75.0	90.3	100.0	0.0	0.0	35.0
			SUB-1	1,501.00	14.3	Shrimps	57.1	Rice	28.6	9,350.63	85.0	0.0	30.0	100.0	100.0	75.0	100.0	0.0	0.0	75.0
			SUB-2	3,478.00	18.2	Shrimps	18.2	Rice	63.6	4,499.75	41.3	50.0	0.0	100.0	100.0	100.0	100.0	0.0	0.0	25.0
			SUB-3	2,747.33	66.7	Fish	33.3	n.a.	0.0	6,762.53	81.7	0.0	0.0	100.0	66.7	100.0	100.0	0.0	0.0	33.3
			SUB-5	3,658.50	16.7	Fish	33.3	n.a.	50.0	5,848.17	76.7	100.0	0.0	100.0	66.7	100.0	100.0	0.0	0.0	0.0
			SUB-5	2,529.00	10.0	Shrimps	40.0	Rice	50.0	4,914.33	26.7	30.0	0.0	100.0	33.3	100.0	100.0	0.0	0.0	33.3
			SUB-6	3,463.00	0.0	n.a.	60.0	Rice	40.0	6,248.67	83.3	70.0	30.0	100.0	66.7	66.7	100.0	0.0	0.0	33.3

Abbreviation (Code):

1. Municipality Code

STS : Sta. Teresita  
 APR : Aparri  
 ABL : Abulug  
 PAM : Pamplona

2. Barangay Code

SBC : Simbaluca  
 LNO : Linao  
 BSG : Bisagu  
 SGR : Siguiran  
 CBG : Cabaggan  
 SUB : San Juan

#### (4) Condition on Mangrove Use and Other Environmental Issues

##### 1) Implementation of Legal Systems on the Mangrove Use

Barangays in the Municipality of Aparri and Pamplona, selling Nipa leaf is the major source of income. Therefore, the land owners of these Nipa areas are receive permits (valid for 1 year, extendible) from DENR and employ people/laborer to collect/cut Nipa leaves. Many fishponds exist in this area which were converted or being converted from Mangrove/Nipa forests, however, most of them are registered under private land permit (Conversion Permit). There is only one (1) existing Fishpond Lease Agreement in the Barangay surveyed. Community-Based Forest Management Program (CBFM) is being implemented within the jurisdiction of CENRO-Aparri and CENRO-Sanchez Mira. Some cooperatives/ corporation of beneficiaries has been organized, initiated by DENR for resources management, but they are mainly for fruit trees and Gemelina for income-generation purposes and not including Mangrove trees. There are also areas converted by the Integrated Social Forest in the Area, but Mangroves are not included. In June 1997, planting of Mangrove trees was conducted along the coastal line between Abulug and Aparri as windbreak, however, this project was initiated by local government and only for experimental purposes. Aside from this, there is no project for Mangrove plantation, since the re-planting of Mangrove is not considered feasible by the local people. In consideration together with the result of interview with Barangay Chairmen in this Area, it may be concluded that the restriction/prohibition of cutting Mangrove tree is not informed well to the people in this area. There are also minimum activities for the planting of Nipa, but these activities were done by the local people to generate income and not for environmental protection purpose. Therefore, local CENRO offices are not involved in this planting activities.

##### 2) Actual Condition on Mangrove Use

Hereunder is the result of aforementioned Interview Survey (interviewing 200 sampled households) pertaining to the use condition and intention toward conservation of Mangrove. (Detailed result is shown on Table-2-2A-8 in this Section, and Figure-2-2-8 to 2-2-14 in the previous Section.)

a. Entering Mangrove Area

75.5% of household heads indicated that they have entered the Mangrove area within the year. The figure is quite high compared to the other 2 Study Areas (32.5% in Lamun Bay Area, 49.4% in Ulugan Bay Area). The purposes for entering are as follows, reflecting the percentage of Nipa gathering in the income resources in this Area.

To collect woods	54.0%
To collect shellfish/crab	33.0%
To catch fish	15.5%
To collect other plants	5.0%

b. Use Condition of Mangrove

The percentage of people who replied that they are presently using Mangrove trees, and having used mangrove trees within 3 years past is 68.0% and 2.0%, respectively. This percentage on present use, 68.0% is the largest among three Study Areas (12.0% in Lamun Bay Area, 14.7% in Ulugan Bay Area). Likewise, 1.0% of people replied that they have been using Mangrove for more than three years past.

The percentage on Mangrove use by the Barangay are as follows:

<u>Name of Brgy.</u>	<u>Present Use</u>	<u>Use w/in 3 yrs. Past</u>	<u>Use 3 more yrs.</u>
Simbaluca	100.0%	0.0%	0.0%
Linao	93.0%	0.0%	0.0%
Bisagu	85.0%	0.0%	0.2%
Siguirang	82.0%	4.0%	0.0%
Cabaggan	95.0%	0.0%	0.0%
San Juan	68.0%	1.0%	0.0%

As to the purpose of use, use as the material of firewood is most common, followed by the use as material of house construction/repair and fence. By the field verification by the Study Team revealed that the people in this area, used *E. agollocha* as the common Mangrove species as fuelwood, which are scattered within the Nipa forest. As for the method to obtain Mangrove trees, 55.0% of people is entering the Mangrove area to cut, 3.2% of people is collecting fallen

trees, and 0.0% of people are buying Mangrove trees. These figures show that the people in this area are obtaining Mangrove trees as the source of fuel by cutting Mangrove when they enter to cut Nipa tree, which is the main source of income in this area.

#### c. Knowledge of Use of Mangrove

As for the knowledge on what way mangrove can be utilized (regardless whether they are actually using Mangrove in that way or not), the result is as follows:

Fuel	72.0%
Repair Houses	68.0%
Liquor	67.0%
Food	41.0%
Fish Net	35.0%
Tools	32.5%
Spice	19.0%
Furniture	18.0%
Make Boat	17.0%
Dyeing	9.5%
Hair Oil	8.0%
Cloth	3.5%
Tea	3.0%
Paper	0.5%

#### d. Future Intention to Use Mangrove

3.2% of households in this Area replied that they have intention to use Mangrove tree in the future. This percentage is the lowest among three Study Areas (10.8% in Lamon Bay Area, 30.0% in Ulugan Bay Area). This low percentage is seemed to have relation with the reason of having negative sense to use Mangrove mentioned below, and with the consideration of the factor that large percentage on present use and few possibility of rapid change of their life style such as change of fuel from firewood to gas or electricity due to the stability of average income in the past ten years, it might be anticipated that the people will continue using Mangrove tree in the future as same as the present condition.

For reference, percentage of people having intention to have their own fishponds was 49.5% which is intermediate in three Study Areas (67.5% in Lamon Bay Area, 31.5% in Ulugan Bay Area).

Result by Barangays is as follows:

<u>Name of Brgy.</u>	<u>Intention to use Mangrove</u>	<u>Intention to have Fishpond</u>
Simbaluca	0.0%	85.7%
Linao	2.0%	43.5%
Bisagu	4.0%	41.7%
Siguirang	6.0%	47.1%
Cabaggan	0.0%	76.2%
San Juan	3.0%	35.0%

#### e. Knowledge of Legal System on Mangrove Conservation

38.7% of people in this Area replied that they have negative sense in cutting Mangrove trees, however, majority of people answered the reason of having negative sense as they do not possess the land where they obtain Nipa, and also they have no permission from land owner to do so, and 0.0% of them answered that the legal prohibition is the reason of having negative sense. This figure shows that the people are more sensitive on some fine or penalties imposed by land owner without recognition of legal prohibition, as the people are cutting Nipa tree by receiving from land owners who is given consessional permission from the Government for Nipa.

In addition, only 2.5% of people replied that they remember their opportunities to discuss with the Government official regarding conservation of Mangrove. This figure is remarkably low among three Study Areas (26.0% in Lamon Bay Area, 45.0% in Ulugan Bay Area). 97.5% of people who replied their present use of Mangrove answered that they do not remember such opportunity.

#### f. Conservation Sense of Mangrove Forest

For any kind of environmental protection movement (governmental or non-governmental), not limited on Mangrove protection in the area, 34.0% of people are aware of such movement. This percentage is the lowest in three Study Areas

(72.0% in Lamon Bay Area, 92.0% in Ulugan Bay Area). 98.5% of people replied that they find importance in protecting Mangrove, 97.0% of people replied their intention to participate on protection of Mangrove actively, and this percentage is the largest in three Study Areas (88.0% in Lamon Bay Area, 93.6% in Ulugan Bay Area). It is noticeable that many people shows their intention on Mangrove protection though the percentage on present use is the largest in three Study Areas. However, 35.5% of people answered that they grant Mangrove cutting as the way to improve their economic condition, and this percentage is the largest in three Study Areas (11.5% in Lamon Bay Area, 26.4% in Ulugan Bay Area). This factor, in spite of low percentage on future use intention and large percentage on protection intention, showed that people will still continue using Mangrove for the future, as same as present use condition.

#### g. Benefit of Mangrove as Disaster Prevention Method

44.5% of the people in this study area replied that they are benefited by Mangrove as the method of protecting their house and possession from high tide. This figure marks second among the three Study Areas (31.0% in Lamon Bay Area, 53.0% in Ulugan Bay Area). Likewise, 64.0% of the people in this area replied that they are benefited by Mangrove for protecting their house and possession from strong wind by Typhoon. This percentage is the largest among three Study Areas (31.5% in Lamon Bay Area, 57.6% in Ulugan Bay Area). This figure includes the people using Mangrove timber to support and reinforce their houses during typhoons and strong winds, while there is awareness on the benefit of Mangrove forest as windbreak in the other two Areas.

Furthermore, among 35.5% of people who grant Mangrove cutting mentioned above, 53.3% of people replied that they are not benefited from Mangrove as natural disaster prevention method.



**Table 2-2A-8 : Condition on the Use and Intention toward Mangrove Forest (Aparri Area)**

CODE	ENTER/COLLECT			PRESENT USE AND METHOD				PAST / FUTURE			BENEFIT			SENSE								
	Area Code	Municipality Code	BRGY. Code	Sito/Purok/Zone Code	Entering Mangrove Area in the Past Year (%)	Collecting Mangrove Trees as the Reason to Enter (%)	Having Negative Reaction to Collection of Mangrove Trees (%)	Utilization of Mangrove Trees (%)	By Cutting and Gathering (%)	By Collecting fallen trees and driftwoods (%)	By Buying (%)	Purpose of Use	Having used Mangrove Trees within Past Three(3) Years (%)	Having used mangrove Trees for more than Three (3) Years (%)	Having Intention Future Use (%)	Fish Nursery (%)	Windbreak (%)	Wave Dispersant (%)	Finding importance in maintaining Mangrove Forest (%)	Willingness to protect Mangrove Forest actively (%)	Allow Mangrove cutting as source of Livelihood (%)	
A			Total		75.5	66.5	38.7	86.0	67.5	41.5	0.0	Firewood	1.0	0.5	3.2	9.0	64.0	44.5	98.5	97.0	35.5	
A	STS	SBC			0.0	85.7	7.1	100.0	85.7	28.6	0.0		0.0	0.0	0.0	28.6	64.3	64.3	100.0	100.0	28.6	
				SBC-1	0.0	100.0	0.0	100.0	100.0	0.0	0.0	Fence	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	0.0	
				SBC-2	100.0	50.0	0.0	100.0	50.0	50.0	0.0	Firewood	0.0	0.0	0.0	0.0	0.0	50.0	50.0	100.0	100.0	0.0
				SBC-3	0.0	100.0	0.0	100.0	100.0	0.0	0.0	Post	0.0	0.0	0.0	0.0	50.0	50.0	50.0	100.0	100.0	0.0
				SBC-4	0.0	100.0	0.0	100.0	100.0	0.0	0.0	Firewood	0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	50.0	
				SBC-5	100.0	100.0	50.0	100.0	100.0	0.0	0.0	Firewood	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	0.0	
				SBC-6	0.0	50.0	0.0	100.0	50.0	50.0	0.0	Firewood	0.0	0.0	0.0	0.0	50.0	50.0	50.0	100.0	100.0	
				SBC-7	0.0	100.0	0.0	100.0	100.0	100.0	0.0	Firewood	0.0	0.0	0.0	0.0	0.0	100.0	100.0	100.0	50.0	
A	APR	LNO			93.5	73.9	50.4	93.5	78.3	45.7	0.0	Firewood	0.0	0.0	2.0	2.2	43.5	34.8	100.0	95.7	54.3	
				LNO-1	62.5	62.5	43.0	62.5	62.5	50.0	0.0	Firewood	0.0	0.0	14.0	0.0	87.5	87.5	87.5	87.5	0.0	
				LNO-2	85.7	57.1	14.0	100.0	85.7	28.6	0.0	Firewood	0.0	0.0	0.0	0.0	28.6	14.3	100.0	100.0	71.4	
				LNO-3	100.0	87.5	63.0	100.0	100.0	50.0	0.0	Firewood	0.0	0.0	0.0	0.0	0.0	50.0	50.0	100.0	100.0	
				LNO-4	100.0	66.7	33.0	100.0	33.3	16.7	0.0	Fence	0.0	0.0	0.0	0.0	0.0	16.7	0.0	100.0	50.0	
				LNO-5	100.0	42.9	57.0	85.7	57.1	42.9	0.0	Firewood	0.0	0.0	0.0	0.0	14.3	0.0	0.0	100.0	71.4	
				LNO-6	100.0	100.0	83.0	100.0	100.0	100.0	0.0	Housing	0.0	0.0	0.0	0.0	0.0	100.0	66.7	100.0	66.7	
				LNO-7	100.0	100.0	60.0	100.0	100.0	20.0	0.0	Firewood	0.0	0.0	0.0	0.0	0.0	0.0	100.0	100.0	80.0	
A	APR	BSG			85.4	60.4	38.5	85.4	64.6	41.7	0.0	Firewood	0.0	0.0	1.8	10.4	62.5	60.4	93.8	97.9	31.3	
				BSG-1	100.0	66.7	17.0	100.0	50.0	100.0	0.0	Firewood	0.0	0.0	0.0	0.0	16.7	50.0	100.0	100.0	33.3	
				BSG-2	78.6	60.7	32.0	78.6	60.7	35.7	0.0	Firewood	0.0	0.0	7.0	7.1	71.4	60.7	92.9	96.4	35.7	
				BSG-3	87.5	50.0	36.0	100.0	75.0	50.0	0.0	Firewood	0.0	0.0	0.0	0.0	37.5	25.0	100.0	100.0	0.0	
				BSG-4	100.0	66.7	67.0	83.3	83.3	0.0	0.0	Firewood	0.0	0.0	0.0	0.0	33.3	66.7	66.7	83.3	100.0	

A	ABL	SGR		58.8	70.6	31.7	82.4	72.5	43.1	0.0	Firewood	0.0	0.0	6.0	13.7	90.2	52.9	96.1	13.7
		SGR-1		0.0	75.0	33.0	100.0	91.7	33.3	0.0	Firewood	0.0	0.0	0.0	8.3	58.3	25.0	100.0	50.0
		SGR-2		73.3	70.0	40.0	73.3	60.0	53.3	0.0	Firewood	0.1	0.0	7.0	10.0	100.0	60.0	100.0	3.3
		SGR-3		88.9	66.7	22.0	88.9	88.9	22.2	0.0	Firewood	0.0	0.0	11.0	33.3	100.0	66.7	100.0	0.0
A	PAM	CBG		85.7	71.4	36.2	95.2	81.0	38.1	0.0	Firewood	0.0	0.0	0.0	0.0	61.9	28.6	100.0	71.4
		CBG-1		50.0	50.0	25.0	75.0	50.0	50.0	0.0	Firewood	0.0	0.0	0.0	0.0	75.0	50.0	100.0	75.0
		CBG-2		75.0	0.0	0.0	100.0	50.0	0.0	0.0	Firewood	0.0	0.0	0.0	0.0	25.0	0.0	100.0	100.0
		CBG-3		100.0	100.0	67.0	100.0	100.0	0.0	0.0	Firewood	0.0	0.0	0.0	0.0	33.3	33.3	100.0	66.7
		CBG-4		100.0	100.0	50.0	100.0	100.0	0.0	0.0	Firewood	0.0	0.0	0.0	0.0	50.0	25.0	100.0	50.0
		CBG-5		100.0	100.0	75.0	100.0	100.0	100.0	0.0	Firewood	0.0	0.0	0.0	0.0	100.0	25.0	100.0	75.0
		CBG-5		100.0	100.0	0.0	100.0	100.0	100.0	0.0	Firewood	0.0	0.0	0.0	0.0	100.0	50.0	100.0	50.0
A	PAM	SJB		95.0	35.0	66.3	60.0	10.0	40.0	0.0	Firewood	0.0	0.0	9.7	5.0	50.0	10.0	100.0	25.0
		SJB-1		100.0	25.0	100.0	50.0	0.0	25.0	0.0	Firewood	0.0	0.0	25.0	0.0	50.0	0.0	100.0	0.0
		SJB-2		100.0	50.0	10.0	100.0	0.0	50.0	0.0	Housing	0.0	0.0	0.0	25.0	50.0	25.0	100.0	75.0
		SJB-3		100.0	66.7	67.0	100.0	0.0	100.0	0.0	Housing	0.0	0.0	0.0	0.0	33.3	0.0	100.0	33.3
		SJB-5		66.7	33.3	100.0	33.3	66.7	33.3	0.0	Firewood	0.0	0.0	33.0	0.0	100.0	33.3	100.0	0.0
		SJB-5		100.0	33.3	100.0	66.7	0.0	33.3	0.0	Firewood	0.0	0.0	0.0	0.0	33.3	0.0	100.0	33.3
		SJB-6		100.0	0.0	33.0	0.0	0.0	0.0	0.0	Firewood	0.0	0.0	0.0	0.0	33.3	0.0	100.0	0.0

Abbreviation (Code):

1. Municipality Code

STS : Sta. Teresita  
 APR : Aparri  
 ABL : Abulug  
 PAM : Pamplona

2. Barangay Code

SBC : Simbaluca  
 LNO : Linao  
 BSG : Bisagu  
 SGR : Siguiran  
 CBG : Cabaggan  
 SJB : San Juan