

C. HUMAN RESOURCES

1. Demography

a. Population and Settlement

a.1 Historical Growth of Population, CY 1960 to 2015

The Municipality of San Vicente has an increasing trend in population that grew from 4,308 in 1960 to 10,396 in 2015. Of the 12 municipalities of the province, San Vicente is the least populous with only 1.78% of the provincial total of 583,313 persons in CY 2015. The capital town of Daet has the biggest population being the center of business, commerce and trade, as well as institutional center, wherein concentration of basic services and facilities are located, followed by the Municipality of Labo, biggest in terms of land area, with the total population of 101,082 persons in 2015. (Table 22)

In terms of growth rate, the year 1990 - 1995 exhibited the highest growth at 2.19%, only .01% lower than the provincial growth rate of 2.20%. The growth can be attributed to the natural increase in population and the considerable number of in-migration in view of job and investment opportunities, as well as the presence of other residents particularly tertiary students during the census time. For the next censal years, particularly 2000 and 2007, the population growth decreased to as low as 1.94% and 0.94%, respectively, which increased again in 2010 to as high as 1.19%, declining abruptly to 0.96% in 2015. The decrease is attributed to the temporary absence of the students studying in other areas and other residents of the municipality employed in other areas during the time that the census of population was conducted. (Table 23)

In terms of population density characterized by the number of persons per square kilometer, San Vicente posted a density of 143 persons per square kilometer in 1995 that increased up to 181 persons per square kilometer in 2015 (Table 24). This is 28% lower than the population density of the province of 251, 44% and 46% lower than that of the Region and of the country, respectively.

Table 22
Historical Growth of Population
CY 1960, 1970, 1975, 1980, 1990, 1995, 2000, 2007, 2010 and 2015
Philippines, Bicol Region, Camarines Norte, Congressional Districts and Its

Municipality	CENSAL YEAR									
	1960	1970	1975	1980	1990	1995	2000	2007	2010	2015
PHILIPPINES			4,247,660	40,988,488	60,703,206	68,616,536	76,498,735	88,574,614	92,337,852	100,981,437
BICOL REGION			3,193,721	3,476,982	3,910,001	4,325,307	4,686,669	5,109,798	5,420,411	5,796,989
CAM. NORTE	188,091	262,207	288,406	308,007	390,982	439,151	470,654	513,785	542,915	583,313
FIRST DISTRICT	92,329	130,040	139,891	147,068	197,633	225,925	234,360	253,954	272,968	292,871
Capaionga	15,505	17,891	20,904	21,718	23,557	25,336	26,577	29,683	31,299	32,215
Jose Panganiban	27,144	34,164	32,746	30,260	44,408	45,936	46,064	49,028	55,557	59,639
Labo	33,168	47,916	52,781	56,690	70,371	77,414	81,388	88,087	92,041	101,082
Paracale	16,512	21,461	22,619	25,308	39,192	43,824	42,453	46,856	53,243	59,149
Sta. Elena	-	8,608	10,841	13,092	20,105	33,955	37,878	40,300	40,828	40,786
SECOND DISTRICT	95,792	132,167	148,515	160,939	193,349	213,226	236,294	259,831	269,947	290,442
Basud	15,302	21,113	21,098	23,042	27,295	30,190	33,885	36,763	38,176	41,017
Daet	35,434	50,620	50,010	54,789	66,477	74,341	80,632	94,184	95,572	104,799
Mercedes	13,983	19,674	25,161	27,645	34,300	38,641	41,713	44,375	47,674	50,841
San Lorenzo Ruiz	-	-	8,227	8,859	9,286	10,811	11,678	12,299	12,592	14,063
San Vicente	4,308	5,914	6,330	6,577	7,321	8,220	8,984	9,615	10,144	10,396
Talisay	8,539	12,042	13,328	13,869	16,896	17,841	21,509	22,942	23,904	25,841
Vinzons	18,196	22,804	24,361	26,158	31,774	33,182	37,893	39,653	41,915	43,485

Municipalities

Source: Philippine Statistics Authority (PSA)

Table 23

**Population Growth Rate1970-1975, 1975-1980, 1980-1990, 1990-1995, 1995-2000,
2000-2007, 2000-2010, 2000-2015 & 2010-2015**
Philippines, Bicol Region, Camarines Norte and Its Municipality

PHILIPPINES/ BICOL REGION/ CAMARINES NORTE	LAND AREA (sq. kms.)	1995		2000		2007		2010		2015	
		POP'N	Density (persons/ sq. km.)								
Philippines	300,000.00	68,616,536	229	76,498,735	255	88,574,614	295	92,337,852	308	100,981,437	337
Bicol Region	17,840.07	4,325,307	242	4,674,855	262	5,109,798	286	5,420,411	304	5,796,989	325
Camarines Norte	2,320.07	439,151	189	470,654	203	513,785	221	542,915	234	583,313	251
<i>First District</i>	1,491.05	225,925	152	234,360	157	253,954	170	272,968	183	292,871	196
Capalonga	290.00	25,336	87	26,577	92	29,683	102	31,299	108	32,215	111
Jose Panganiban	214.44	45,396	212	46,064	215	49,028	229	55,557	259	59,639	278
Labo	589.36	77,414	131	81,388	138	88,087	149	92,041	156	101,082	172
Paracale	197.90	43,824	221	42,453	215	46,856	237	53,243	269	59,149	299
Sta. Elena	199.35	33,955	170	37,878	190	40,300	202	40,828	205	40,786	205
<i>Second District</i>	829.02	213,226	257	236,294	285	259,831	313	269,947	326	290,442	350
Basud	260.28	30,190	116	33,885	130	36,763	141	38,176	147	41,017	158
Daet	46.00	74,341	1,616	80,632	1753	94,184	2,047	95,572	2,078	104,799	2,278
Mercedes	173.69	38,641	222	41,713	240	44,375	255	47,674	274	50,841	293
San Lorenzo Ruiz	119.37	10,811	91	11,678	98	12,299	103	12,592	105	14,063	118
San Vicente	57.49	8,220	143	8,984	156	9,615	167	10,114	176	10,396	181
Talisay	30.76	17,841	580	21,509	699	22,942	746	23,904	777	25,841	840
Vinzons	141.43	33,182	236	37,893	268	39,653	280	41,915	296	43,485	307

Source: Philippine Statistics Authority (PSA)

Table 24

Population Density, CY 1995, 2000, 2007, 2010 and 2015
Philippines, Camarines Norte and Its Municipality

PHILIPPINES/BICOL REGION/MUNICIPALITIES	C E N S A L Y E A R								
	1970-1975	1975-1980	1980-1990	1990-1995	1995-2000	2000-2007	2000-2010	2000-2015	2010-2015
PHILIPPINES	2.78	2.71	2.35	2.32	2.36	2.04	2.12	1.84	1.72
BICOL REGION	1.48	1.71	1.18	1.91	1.68	1.20	1.65	1.40	1.29
CAMARINES NORTE	1.92	1.32	2.41	2.20	1.50	1.22	1.44	1.42	1.38
<i>First District</i>									
Capalonga	3.16	0.77	0.82	1.37	1.03	1.54	1.65	1.27	0.56
Jose Panganiban	-0.84	-1.57	3.91	0.41	0.31	0.86	1.89	1.71	1.36
Labo	1.95	1.44	2.19	1.80	1.08	1.10	1.24	1.43	1.80
Paracale	-1.06	2.27	4.47	2.12	-0.62	1.37	2.29	2.20	2.02
Sta. Elena	4.72	3.85	4.38	10.32	2.37	0.86	0.75	0.49	1.38
<i>Second District</i>									
Basud	-0.01	1.78	1.71	1.92	2.50	1.13	1.20	1.26	1.38
Daet	-0.24	1.84	1.95	2.12	1.76	2.16	1.71	1.73	1.77
Mercedes	5.04	1.90	2.18	2.26	1.65	0.86	1.34	1.31	1.23
San Lorenzo Ruiz	-	1.49	0.47	2.89	1.67	0.72	0.76	1.23	2.12
San Vicente	1.37	0.77	1.08	2.19	1.92	0.94	1.19	0.96	0.52
Talisay	2.05	0.80	1.99	1.02	4.09	0.89	1.06	1.21	1.49
Vinzons	1.33	1.43	1.96	0.82	2.88	0.63	1.01	0.91	0.70

Source: Philippine Statistics Authority (PSA)

By barangay, Man-ogob consistently exhibited the highest number of population from CY 2000 to CY 2015, followed by barangay San Jose with Iraya Sur having the least.

For CY 2010, Brgy. Man-ogob posted a population of 2,772, which decreased to 2,538 in CY 2015. This is attributed to increasing number of students enrolled outside the municipality and other residents who are working abroad as well as some individuals who are looking for greener pasture in other areas. This is trailed behind Brgy. San Jose with a population of 1,819 for CY 2010 and 1,972 persons for CY 2015. Barangays Cabanbanan and Fabrica ranked 3rd and 4th, respectively, in terms of population size accounting to 1,070 and 1,041 in CY 2010, with a slight increase of 88 and 66 persons, respectively in CY 2015. The least populous barangay is Iraya Sur with 280 persons that increased to 318 in CY 2015. Among the nine (9) barangays, Calabagas exhibited the highest growth rate of 3.93% from 2010-2015, followed by Iraya Sur with 2.71%, Asdum with 2.30%, San Jose with 1.68%, Cabanbanan with 1.64%, Fabrica-1.27% and Poblacion District II (Kanluran / Brgy. 2) with 0.47%. Poblacion Dsitrict I (Silangan / Brgy. I) and Man-ogob exhibited negative growth rate of -2.68 and -1.69, respectively. (Table 25)

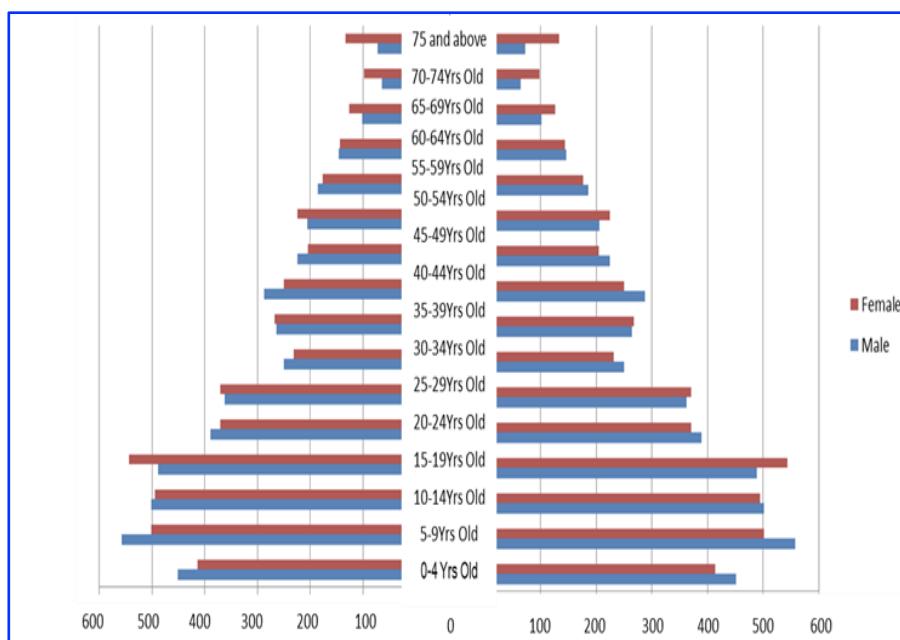
Table 25
Actual Population and Growth Rate
Municipality of San Vicente: CY 2000-2015

BARANGAY	ACTUAL NO. OF POPULATION				Growth Rate 2010-2015
	2000	2007	2010	2015	
SAN VICENTE	8,984	9,615	10,114	10,396	0.96
Asdum	391	444	513	572	2.30
Cabanbanan	806	1,028	1,070	1,158	1.64
Calabagas	806	1,003	977	1,169	3.93
Fabrica	907	1,034	1,041	1,107	1.27
Iraya Sur	302	235	280	318	2.71
Man-Ogob	2,429	2,488	2,772	2,538	-1.69
Silangan (Pob. 1)	909	714	754	653	-2.68
Kanluran (Pob. 2)	901	906	888	909	0.47
San Jose	1,551	1,763	1,819	1,972	1.68

a.2 Age and Sex Distribution

Fig. 22 illustrates the age-sex structure of the population for CY 2015. The broad base of the population of the municipality constitute the young population while the old population is relatively small. Within the age range 0-9 years old, the male dominates the female while there are more female in the age range 15 to 19 and 65 and over.

Figure 22
Age-Sex Pyramid



Municipality of San Vicente, CY 2015

Male accounts for 50.01% of the total population while the percentage of female is

49.99, slightly lower by .01% than males. The sex ratio is computed at 100.62.

Over the years, from CY 2000 to CY 2015, the male population slightly dominates the female (Table 26).

Table 26
Household Population by Age Group and Sex
Municipality of San Vicente: CY 2000, 2007, 2010 & 2015

AGE GROUP	2000			2007			2010			2015		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
ALL AGES	8,983	4,567	4,416	9,611	4,858	4,753	10,010	5,120	4,890	10,390	5,211	5,179
Under 1	286	149	137	235	125	110	238	123	115	256	145	111
1 - 4	924	435	489	932	475	457	904	464	440	972	510	462
5 - 9	1,224	619	605	1,253	604	649	1,045	578	467	1,260	625	635
10 - 14	1,096	567	529	1,260	629	631	1,179	584	595	1,181	607	574
15 - 19	884	454	430	1,056	576	480	1,146	590	556	1,025	512	513
20 - 24	767	395	372	691	360	331	890	467	423	849	429	420
25 - 29	662	358	304	626	335	291	657	336	321	711	366	345
30 - 34	671	343	328	576	290	286	652	340	312	603	294	309
35 - 39	574	298	276	586	300	286	592	329	263	594	299	295
40 - 44	443	237	206	561	279	282	636	311	325	535	270	265
45 - 49	355	193	162	482	256	226	547	286	261	601	296	305
50 - 54	296	144	152	364	188	176	420	225	195	503	251	252
55 - 59	219	115	104	279	127	152	306	145	161	378	200	178
60 - 64	210	92	118	232	118	114	263	119	144	307	159	148
65 - 69	143	68	75	187	76	111	195	91	104	231	98	133
70 - 74	111	47	64	125	57	68	172	70	102	164	79	85
75 - 79	55	30	25	91	40	51	90	39	51	115	39	76
80 and Over	63	23	40	75	23	52	78	23	55	105	32	73

Source: Philippine Statistics Authority (PSA) 2000, 2007, 2010 & 2015 Census of Population
Note: Household population excludes population enumerated in institutional households such as national/provincial/municipal, jails/detention centers, military camps, tuberculosis pavillions, mental hospitals, leprosarial/leper colonies or drug rehabilitation center.

a.3 Age Dependency Ratio

Out of 10,396 populations in CY 2015, 43.41% comprise the child and youth group (ages 0-19, while 6.54% accounts for the older population (ages 65 and over). Productive age group is accounted to 50.05% (Table 27).

Table 27
Age - Dependency, by Sex
Municipality of San Vicente; CY 2015

Age Composition	Male	%	Female	%	Total	Total %
Young Population (0-19)	2,283	21.96	2,230	21.45	45.15	43.41
Old Population (65 and over)	272	2.61	408	3.92	6.79	6.54
Dependent Population	2,554	24.50	2,638	25.30	51.94	49.95

Total dependency ratio is accounted to 49.95%, which means that in every person in the productive ages 15-64, only 50 are dependents. Young dependency ratio in the municipality is 43.41, which means that every 100 persons of productive age group, there are 43 persons who depend on them.

The young and old population comprised the dependent population.

a.4 School-Age Population

The school age population of San Vicente is 3,318 or 32% of the entire population composed of 5 – 18 years old (preschool-elementary-secondary and senior high school). The proportion between male and female pupils and students is barely equal at 50.5% (Male) and 49.5% (Female) based on Table 28 below.

Table 28
School Age Population
Municipality of San Vicente, 2015

Age	Male	Female	Total
5 - 6	272	246	518
7 - 12	709	661	1,370
13 - 16	462	486	948
17 - 18	233	249	482
Total	1,676	1,642	3,318

School age is lower in the preschool age group and likewise low in the Senior High School age group. Elementary age group posted the highest in terms of population. However, these numbers don't indicate an erratic year level population because the sub grouping is

based on the school age. Elementary is certainly bigger in number because it is composed of seven (7) years from kinder to grade 6.

a.5 Population Distribution by Barangay

The municipal population is distributed in nine (9) barangays, with the total population of 10,396 as of 2015, all classified as rural.

Of the nine (9) barangays, Man-ogob with 2,538 (24.41%) population is the most populated barangay, followed by Barangays San Jose with 1,972, Calabagas with 1,169, Cabanbanan with 1,158, Cand Fabrica with 1,107 (Table 29), while Iraya Sur remained to be the least populated accounting for only 3% of the municipal population, which may be attributed to its distance from the poblacion and its physical attributes.

The larger number of population in Brgy. Man-ogob can be attributed to the presence of housing project in adjacent barangays and the expanding settlement expansion in the area.

**Table 29
Distribution of Population
Municipality of San Vicente, CY 2015**

Barangay	TOTAL	PERCENT TO TOTAL
Asdum	572	5.50
Cabanbanan	1,158	11.14
Calabagas	1,169	11.24
Fabrica	1,107	10.65
Iraya Sur	318	3.06
Man-Ogob	2,538	24.41
Kanluran	909	8.74
Silangan	653	6.28
San Jose	1,972	18.97
TOTAL	10,396	100.00

Population, Number of Household and Average Household Size

a.6

The Municipality of San Vicente has a total population of 10,396 in CY 2015 with a total 2400 households. Among the nine (9) barangays, Man-ogob posted the highest number of household with 609, followed by San Jose (Iraya Norte) with 462, Fabrica with 248 and Iraya Sur having the least with only 78 households. (Table 30).

The large population of Man-Ogob is attributed to in-migration from other barangays in 1990's because it has been a pilot area of the Foster Parents Plan, a foreign funded project that developed a large area for barrio site. Aside from this, the location of the barangay is very near to the commercial and business center of the municipality, thus the spill-over effect of economic activities was observed in the area.

Average household size for the municipality is four (4), which means a family in almost all barangays consist of only 4 members.

Table 30
Household Population by Barangay and
Average Population Size
Municipality of San Vicente, CY 2015

Barangay	Actual Number of Households		Growth Rate
	CY 2010	CY 2015	
San Vicente	2,230	2,400	
Asdum	123	122	-0.16
Cabanbanan	227	262	2.67
Calabagas	230	247	1.38
Fabrica	218	248	2.42
Iraya Sur	60	78	4.62
Man-Ogob	613	609	-0.13
Kanluran	201	218	1.56
Silangan	167	154	-1.69
San Jose	391	462	3.07

Projected population for the year CY 2027 is estimated at 13,067. Among the nine (9) barangays,

Man-Ogob has the highest projected population at 3,140, followed by San Jose with 2,409, Calabagas with 1,857, Cabanbanan with 1,408, Fabrica with 1,288 with Iraya Sur having the least of 439 (Table 31).

Table 31
Projected Number of Population by Barangay
Municipality of San Vicente, CY 2016-2020

Barangay	Projected Population per Year											
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
SAN VICENTE	10,595	10,780	11,038	11,241	11,452	11,663	11,882	12,104	12,334	12,569	12,808	13,069
Asdum	585	599	612	626	641	656	671	686	702	718	735	751
Cabanbanan	1,177	1,196	1,216	1,236	1,256	1,277	1,298	1,319	1,341	1,363	1,386	1,408
Calabagas	1,215	1,263	1,312	1,364	1,418	1,473	1,531	1,591	1,654	1,719	1,786	1,857
Fabrica	1,121	1,135	1,150	1,164	1,179	1,194	1,209	1,224	1,240	1,256	1,272	1,288
Iraya Sur	327	335	345	354	364	373	384	394	405	416	427	439
Man-Ogob	2,593	2,629	2,676	2,724	2,773	2,822	2,873	2,925	2,978	3,031	3,085	3,140
Silangan (Pob. I)	659	666	732	739	746	753	760	767	775	783	791	815
Kanluran (Pob. II)	913	918	922	926	931	935	940	944	948	953	957	962
San Jose	2,005	2,039	2,073	2,108	2,144	2,180	2,216	2,254	2,291	2,330	2,369	2,409

a.7 Population Density

For censal year 2015, the population density of San Vicente is posted at 181 persons per square kilometer, 39% lower than the provincial population density of 251.42 persons per square kilometer.

Among the nine (9) barangays, barangays of Silangan and Kanluran posted the highest population density of 6,910 persons and 4,102 persons per square kilometer, respectively. The least populous is the barangay of Iraya Sur, which posted a population density of only 16 persons per square kilometer. (Table 32)

Other barangays, which have population densities higher than the municipal average of 181 are Calabagas with 349.55, Man-ogob with

349.35, San Jose with 332.40 and Cabanbanan with 291.42.

Table 32
Population Density by Barangay
Municipality of San Vicente, CY 2015

BARANGAY	Population	Land Area (sq.m.)	Population Density
Asdum	572	10.56	54.15
Cabanbanan	1,158	3.97	291.42
Calabagas	1,169	3.34	349.55
Fabrica	1,107	6.55	169.02
Iraya Sur	318	19.55	16.27
Man-Ogob	653	0.09	6,910.05
Kanluran	2,538	7.27	349.35
Silangan	1,972	5.93	332.40
San Jose	909	0.22	4,101.99
Total (SAN VICENTE)	10,396	57.49	12,574.19
Camarines Norte	583,313	2,320.07	251.42

a.8 Population Growth Rate

The population growth rate of San Vicente showed increasing and decreasing trend from 1970 to 2015. For the latest censal years CY 2000 to 2015, San Vicente exhibited the growth rate of 0.96%, the third lowest among the 12 municipalities of the province surpassing the municipalities of Sta. Elena with 0.49 and Vinzons with 0.91.

Population of San Vicente is expected to grow from 10,396 in 2015 to 13,069 in 2027. Among the nine (9) barangays, Man-gob exhibited the highest projected population in 10 years from 2017 to 2027 accounting to 3,140, followed by San Jose with 2,409, Calabagas with 1,857, Cabanbanan with 1,408, Fabrica with 1,288, Kanluran - 962 Silangan with 815 and Iraya Sur having the least of 439 persons (Table 33).

Table 33
Actual and Estimated Number of Population
by Barangay Municipality of San Vicente, CY 2010, 2015

Barangay	Actual Number of Population		Growth Rate	Projected Population (CY 2027)
	CY 2010	CY 2015		
San Vicente	10,114	10,396		13,069
Asdum	513	572	2.3	751
Cabanbanan	1,070	1,158	1.64	1,408
Calabagas	977	1,169	3.93	1,857
Fabrica	1,041	1,107	1.27	1,288
Iraya Sur	280	318	2.71	439
Man-Ogob	2,772	2,538	-1.69	3,140
Kanluran	888	909	0.47	962
Silangan	754	653	-2.68	815
San Jose	1,819	1,972	1.68	2,409

Source: PSA Census of Population:2015

The number of children ages 0-17, considering the CY 2010 and 2015 population is accounted to 225,921 and 248,410, respectively, for the whole province. It is expected to grow to 255,291 children of 0-17 years old by 2027.

For the Municipality of San Vicente, the number of children ages 0-17 is accounted to 42.80% of the provincial total equaled to 4,162 and 4,329 children in CY 2010 and 2015, respectively. The figure is expected to increase to 5,538 children in CY 2027. (Table 34)

Table 34

Actual Population 2010 and 2015, Percent of Children 0-17 Years Old and Estimated Number of Children from 2016 to 2027
Province of Camarines Norte and Municipality of San Vicente

Province / Municipality	Actual Population		Number of Children 0-17 Years Old		% of Children 0-17	Estimated No. of Children CY
	CY 2010	CY 2015	CY 2010	CY 2015	Years Old	2016-2027
Camarines Norte	542,315	583,313	225,012	248,410	45.8	255,921
San Vicente	10,114	10,396	4,162	4,329	42.8	5,538

Source: Philippine Statistics Authority

Note: Basis of computation is the proportion of children 0-17 years old in 2015 Census of Population

The number of live births province wide totalled to 11,114 in CY 2011, which increased to 15,449 in 2015. From 169 live births of San Vicente in 2011, it dropped to only 130 live births in 2015, 66% of which are males and 64 are females. (Table 35)

Table 35
Number of Live Births By Sex, By Municipality and By Congressional District: CY 2011-2015
Province of Camarines Norte

Municipality	2011			2012			2013			2014			2015		
	Male	Female	Total												
CAMARINES NORTE	5,793	5,321	11,114	6,676	6,150	12,826	5,533	5,332	10,865	5,953	5,881	11,834	8,313	7,136	15,449
DISTRICT1	2,914	2,652	5,566	3,847	2,857	6,704	2,981	2,961	5,942	2,988	2,669	5,657	3,096	2,665	5,761
Capalonga	365	348	713	403	342	745	310	301	611	296	255	551	305	274	579
Jose Panganiban	614	509	1,123	1,278	632	1,910	538	610	1,148	568	457	1,025	570	442	1,012
Labo	866	827	1,693	962	764	1,726	1,068	1,047	2,115	1,095	1,044	2,139	1,213	1,060	2,273
Paracale	657	599	1,256	758	687	1,445	722	641	1,363	733	629	1,362	680	580	1,260
Sta. Elena	412	369	781	446	432	878	343	362	705	296	284	580	328	309	637
DISTRICT2	2,879	2,669	5,548	2,829	3,293	6,122	2,552	2,371	4,923	2,965	3,212	6,177	5,217	4,471	9,668
Basud	438	379	817	300	288	588	297	283	580	293	709	1,002	228	203	431
Daet	1,019	1,023	2,042	1,121	1,060	2,181	959	920	1,879	1,109	1,013	2,122	3,550	2,934	6,484
Mercedes	516	495	1,011	500	1,016	1,516	368	379	747	576	581	1,157	481	487	968
San Lorenzo Ruiz	96	73	169	82	72	154	58	48	106	154	132	286	148	120	268
San Vicente	91	78	169	92	111	203	82	86	168	92	66	158	66	64	130
Talisay	206	176	382	153	172	325	153	134	287	195	182	377	232	201	433
Vinzons	514	445	959	581	574	1,155	635	521	1,156	546	529	1,075	512	462	974

Source: Provincial Health Office

The crude birth rate is the number of live births occurring among the population of a

given geographical area during a given year, per 1000 population. Similar to the province, the crude birth rate of the municipality of San Vicente has an upward and downward trend from CY 2011 to 2015 with a recorded 12.3% in the latest year, almost less than half of 26.5% crude birth rate of the province for CY 2015 (Table 36)

The crude death rate on the other hand is the number of deaths occurring among the population during a given year per 1000 population of a give municipality during the same year.

Table 36
Crude Birth Rate/1000 Population By Municipality and By Congressional

Municipality	2011			2012			2013			2014			2015		
	Pop'n	No. of Livebirths	Crude Birth rate/ 1000 Pop'n	Pop'n	No. of Livebirths	Crude Birth rate/ 1000 Pop'n	Pop'n	No. of Livebirths	Crude Birth rate/ 1000 Pop'n	Pop'n	No. of Livebirths	Crude Birth rate/ 1000 Pop'n	Pop'n	No. of Livebirths	Crude Birth rate/ 1000 Pop'n
CAMARINES NORTE	565,203	11,114	19.66	572,299	12,826	22.41	567,662	10,865	19.14	575,656	11,834	20.56	583,748	15,498	26.55
DISTRICT1	274,134	5,566	20.30	284,973	6,704	23.53	288,906	5,942	20.57	294,127	5,657	19.23	299,444	5,761	19.24
Capalonga	32,738	713	21.78	32,317	745	23.05	32,627	611	18.73	33,049	551	16.67	33,473	579	17.30
Jose Panganiban	56,742	1,123	19.79	56,012	1,910	34.10	58,353	1,148	19.67	59,250	1,025	17.30	60,153	1,012	16.82
Labo	100,254	1,693	16.89	98,965	1,726	17.44	94,721	2,115	22.33	95,560	2,139	22.38	96,395	2,273	23.58
Paracale	52,294	1,256	24.02	51,621	1,445	27.99	56,619	1,363	24.07	57,714	1,362	23.60	58,824	1,260	21.42
Sta. elena	32,106	781	24.33	46,058	878	19.06	46,586	705	15.13	48,554	580	11.95	50,599	637	12.59
DISTRICT2	291,069	5,548	19.06	287,326	6,122	21.31	278,756	4,923	17.66	281,529	6,177	21.94	284,304	9,688	34.08
Basud	41,740	817	19.57	41,203	588	14.27	39,241	580	14.78	39,573	1,002	25.32	39,904	431	10.80
Daet	99,323	2,042	20.56	98,046	2,181	22.24	99,830	1,879	18.82	101,188	2,122	20.97	102,553	6,484	63.23
Mercedes	51,382	1,011	19.68	50,722	1,516	29.89	49,227	747	15.17	49,715	1,157	23.27	50,203	968	19.28
San Lorenzo Ruiz	14,385	169	11.75	14,200	154	10.85	12,765	106	8.30	12,816	286	22.32	12,867	268	20.83
San Vicente	11,067	169	15.27	10,924	203	18.58	10,394	168	16.16	10,481	158	15.07	10,568	130	12.30
Talisay	26,495	382	14.42	26,154	325	12.43	24,465	287	11.73	24,638	377	15.30	24,810	433	17.45
Vinzons	46,677	959	20.55	46,077	1,155	25.07	42,834	1,156	26.99	43,118	1,075	24.93	43,399	974	22.44

Source: Provincial Health Office

District: CY 2011-2015

For the province, the crude death rate for 1000 population increased from 4.76% in 2011 to 6.1% in 2015.

At the municipal level, particularly in San Vicente, it started at 4.25% that increased to 4.48% in 2014, but went down to 3.2% in 2015. Among the twelve (12) municipalities, San Vicente ranked 2nd in terms of lowest crude death rate after the municipality of Capalonga, which ranked first in terms of lowest crude death rate at 3.1%. (Table 37)

Table 37**Crude Death Rate/1000 Population By Municipality And By Congressional**

Municipality	2011			2012			2013			2014			2015		
	Pop'n	No. of Deaths	Crude Death Rate/ 1000 Pop'n	Pop'n	No. of Deaths	Crude Death Rate/ 1000 Pop'n	Pop'n	No. of Deaths	Crude Death Rate/ 1000 Pop'n	Pop'n	No. of Deaths	Crude Death Rate/ 1000 Pop'n	Pop'n	No. of Deaths	Crude Death Rate/ 1000 Pop'n
CAMARINES NORTE	565,203	2,690	4.76	572,299	2,927	5.11	567,662	2,517	4.43	575,656	2,947	5.12	583,748	3,611	6.19
DISTRICT1	274,134	1,277	4.66	284,973	1,565	5.49	288,906	1,358	4.70	294,127	1,419	4.82	299,444	1,348	4.50
Capalonga	32,738	115	3.51	32,317	303	9.38	32,627	85	2.61	33,049	106	3.21	33,473	106	3.17
Jose Panganiban	56,742	263	4.64	56,012	195	3.48	58,353	341	5.84	59,250	309	5.22	60,153	270	4.49
Labo	100,254	462	4.61	98,965	489	4.94	94,721	423	4.47	95,560	443	4.64	96,395	462	4.79
Paracale	52,294	280	5.35	51,621	412	7.98	56,619	324	5.72	57,714	343	5.94	58,824	324	5.51
Sta. elena	32,106	157	4.89	46,058	166	3.60	46,586	185	3.97	48,554	218	4.49	50,599	186	3.68
DISTRICT2	291,069	1,413	4.85	287,326	1,362	4.74	278,756	1,159	4.16	281,529	1,528	5.43	284,304	2,263	7.96
Basud	41,740	171	4.10	41,203	157	3.81	39,241	149	3.80	39,573	211	5.33	39,904	131	3.28
Daet	99,323	591	5.95	98,046	528	5.39	99,830	502	5.03	101,188	639	6.31	102,553	1,538	15.00
Mercedes	51,382	239	4.65	50,722	228	4.50	49,227	160	3.25	49,715	255	5.13	50,203	190	3.78
San Lorenzo Ruiz	14,385	48	3.34	14,200	39	2.75	12,765	40	3.13	12,816	57	4.45	12,867	49	3.81
San Vicente	11,067	47	4.25	10,924	45	4.12	10,394	40	3.85	10,481	47	4.48	10,568	34	3.22
Talisay	26,495	155	5.85	26,154	163	6.23	24,465	130	5.31	24,638	157	6.37	24,810	143	5.76
Vinzons	46,677	162	3.47	46,077	202	4.38	42,834	138	3.22	43,118	162	3.76	43,399	178	4.10

Source: Provincial Health Office

District: CY 2011-2015

In terms of maternal mortality rate, the year 2013 exhibited the highest maternal mortality of 29, provincewide, which gradually decreased to 24 in 2015. In the twelve (12) municipalities of the province, San Vicente is included among the three (3) municipalities without maternal mortality in 2015, to include San Lorenzo Ruiz and Vinzons. (Table 38)

Table 38
Maternal Mortality/1000 Live Births By Municipality And By
Congressional District: Cy 2010-2015
Province of Camarines Norte

Municipality	2010		2011		2012		2013		2014		2015	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate	No.	Rate
CAMARINES NORTE	8.00	0.70	12.00	0.45	20.00	1.58	29.00	2.67	25.00	2.11	24.00	1.55
DISTRICT1	4.00	0.62	3.00	0.54	4.00	0.60	4.00	0.67	13.00	2.30	10.00	1.72
Capalonga	3.00	4.92	1.00	1.40	-	-	2.00	3.27	-	-	1.00	1.73
Jose Panganiban	-	-	-	-	1.00	0.52	1.00	0.87	1.00	0.98	2.00	1.88
Labo	-	-	-	-	-	-	-	-	4.00	1.87	5.00	2.20
Paracale	1.00	0.85	-	-	1.00	0.69	-	-	4.00	2.94	1.00	0.79
Sta. elena	-	-	2.00	2.56	2.00	2.28	1.00	1.42	4.00	6.90	1.00	1.57
DISTRICT2	5.00	0.91	9.00	1.62	16.00	2.61	25.00	0.51	12.00	0.19	14.00	1.44
Basud	-	-	1.00	1.22	-	-	-	-	-	-	2.00	4.64
Daet	1.00	0.56	1.00	-	16.00	7.34	25.00	13.03	11.00	5.18	6.00	0.92
Mercedes	1.00	0.84	-	-	-	-	-	-	1.00	0.86	4.00	4.13
San Lorenzo Ruiz	-	-	-	-	-	-	-	-	-	-	-	-
San Vicente	1.00	5.49	-	-	-	-	-	-	-	-	-	-
Talisay	2.00	2.48	-	-	-	-	-	-	-	-	2.00	4.63
Vinzons	-	-	1.00	1.04	-	-	-	-	-	-	-	-

Source: 2010-2015 Field Health Services Information System (FHSIS), Provincial Health Office

With regards to infant mortality rate, which is the number of deaths of infants under one year old in a given year per 1000 population, the province posted an infant mortality rate of 13.70% in 2010, which increased up to 15.30% in 2011 but went down to 9.90% in 2015. This rate is often used as an indicator of the level of health in the country.

At the municipal level, San Vicente posted the highest infant mortality rate of 49.45% in 2010, which decreased to 23.08% in CY 2015. (Table 39) Causes of infant deaths include pneumonia, pre-maturity, septicemia, congenital anomaly, infection, among others. (Table 40)

Table 39
Infant Mortality Rate/1000 Live Births By Sex, By Municipality And By Congressional District: CY 2010-2015
Province of Camarines Norte

Municipality	2010				2011				2012				2013				2014				2015			
	Male	Female	Both Sexes	%	Male	Female	Both Sexes	%	Male	Female	Both Sexes	%	Male	Female	Both Sexes	%	Male	Female	Both Sexes	%	Male	Female	Both Sexes	%
CAMARINES	92	72	164	13.70	105	65	170	15.30	105	74	179	13.96	76	59	135	12.43	56	42	98	8.28	93	60	153	9.90
DISTRICT 1	40	38	78	12.07	57	40	97	17.43	56	48	104	15.51	50	26	76	12.79	32	21	53	9.37	24	21	45	7.81
Capalonga	3	8	11	18.04	10	6	16	22.44	4	8	12	16.11	2	3	5	8.18	3	6	9	16.33	4	0	4	6.91
Jose	3	1	4	3.30	12	5	17	15.14	3	3	6	3.14	2	0	2	1.74	5	2	7	6.83	2	3	5	4.94
Labo	7	11	18	2.50	11	10	21	12.40	15	14	29	16.80	13	8	21	9.93	6	5	11	5.14	8	9	17	7.48
Paracale	20	11	31	26.50	14	15	29	23.09	25	19	44	30.45	23	12	35	25.68	15	3	18	13.22	6	1	7	5.56
Sta. elena	7	7	14	15.40	10	4	14	17.93	9	4	13	14.81	10	3	13	18.44	3	5	8	13.79	4	8	12	18.84
DISTRICT 2	52	34	86	15.62	48	25	73	13.16	49	26	75	12.25	26	33	59	11.98	24	21	45	7.29	69	39	108	11.15
Basud	13	6	19	21.91	1	3	4	4.90	3	1	4	6.80	4	2	6	10.34	0	2	2	2.00	1	2	3	6.96
Daet	19	12	31	17.37	23	8	31	15.18	27	8	35	16.05	13	18	31	16.50	14	12	26	12.25	54	30	84	12.95
Mercedes	6	4	10	8.44	11	4	15	14.84	4	2	6	3.96	1	5	6	8.03	5	2	7	6.05	6	3	9	9.30
San Lorenzo Ruiz	0	4	4	14.98	0	1	1	5.92	0	2	2	12.99	2	1	3	28.30	2	1	3	10.49	0	1	1	3.73
San Vicente	7	2	9	49.45	4	3	7	41.42	3	1	4	19.70	2	1	3	17.86	1	0	1	6.33	2	1	3	23.08
Talisay	1	4	5	12.38	4	1	5	13.09	10	5	15	46.15	1	4	5	17.42	0	1	1	2.65	3	2	5	11.55
Vinzons	6	2	8	9.82	5	5	10	10.43	2	7	9	7.79	3	2	5	4.33	2	3	5	4.65	3	0	3	3.08

Source: Provincial Health Office

Table 40
Causes of Infant Deaths By Sex: CY 2015
Province of Camarines Norte

CAUSES	MALE	FEMALE	TOTAL
CAMARINES NORTE	99	69	168
Pneumonia	26	9	35
CRDS/Pre-maturity	18	15	33
Sepsis/Septicema	17	13	30
Congenital Anomaly	7	5	12
CNS Infection	6	6	12
Asphyxia	7	4	11
Sepsis Neonetorum	0	3	3
Bronchial Asthma	0	2	2
Age with Severe Dehydration	1	1	2
Aspiration	0	2	2
Post Maturity	2	0	2
Neonatal Death	1	1	2
Meconium Aspiration	1	1	2
Sudden Infant Death Syndrome	2	0	2
Anemia Severe	1	1	2
Congestive Heart Failure	1	0	1
Hematologic Disease	1	0	1
T/C Cranial Mass	1	0	1
Benign Febrile Convulsion	0	1	1
Hypoxic Ischemic Encephalopathy	1	0	1
Aspiration Syndrome	1	0	1
Blun Trauma Chest	1	0	1
Amoebic Colitis	0	1	1
Hypovolemic Shock	1	0	1
Heart Stroke	0	1	1
Immuno	1	0	1
Acute Intususception	1	0	1
Cerebral Hypoxia	0	1	1
Cardiac Arythma	0	1	1
Diabetes Miletus	0	1	1
Cerebral Anoxia, severe	1	0	1

Source: Provincial Health Office

Among the pre-schoolers, San Vicente ranked 6th in terms of Municipalities with high percentage of underweight at 12.77%, 2.6% higher than the provincial average of 10.17%. (Table 41)

Table 41
Underweight Pre-School Children By Sex, By Municipality: CY 2015
Province of Camarines Norte

MUNICIPALITY	Male	Female	Total	
			No.	%
Basud	384	362	746	12.89
Capalonga	283	255	538	12.20
Daet	434	410	844	6.31
Jose Panganiban	666	609	1,275	14.85
Labo	271	238	509	3.29
Mercedes	670	595	1,265	18.56
Paracale	592	542	1,134	13.59
Sta. Elena	165	180	345	5.31
San Lorenzo Ruiz	111	92	203	10.66
San Vicente	91	79	170	12.77
Talisay	230	172	402	13.04
Vinzons	447	423	870	14.53
CAMARINES NORTE	4,344	3,957	8,301	10.20

Source: Provincial Health Office

In order to increase the immune system of children 0-9 months old, the administration of vaccines was undertaken. Among the twelve municipalities, San Vicente ranked 2nd in terms of percentage of fully immunized children province wide at 85%, with Labo having the highest of 91% in 2015. (Table 42)

Table 42
**Number of Fully Immunized Children (0-9 Months) By Sex, By Municipality And
 By Congressional District: CY 2010-2015
 Province of Camarines Norte**

Municipality	2010				2011				2012				2013				2014				2015			
	Male	Female	Both Sexes	%	Male	Female	Both Sexes	%	Male	Female	Both Sexes	%	Male	Female	Both Sexes	%	Male	Female	Both Sexes	%	Male	Female	Both Sexes	%
CAMARINES NORTE	6,612	6,078	12,690	83.33	6,458	5,863	12,321	80.74	3,669	3,459	7,128	73.71	6,468	5,854	12,322	80.39	6,399	5,961	12,360	79.52	6,405	6,022	12,427	78.80
DISTRICT1	3,377	3,169	6,546	86.32	3,255	6,298	9,553	85.09	709	640	1,349	72.90	3,367	3,056	6,423	82.34	3,520	3,255	6,775	85.32	3,269	3,058	6,327	78.20
Capalonga	247	242	489	56.87	252	433	685	48.99	306	274	580	66.47	316	311	627	71.17	275	280	555	62.20	293	286	579	64.00
José Panganiban	677	665	1,342	90.04	683	1,306	1,989	85.25	397	390	787	52.04	595	567	1,162	70.80	781	697	1,478	92.39	678	597	1,275	78.00
Labo	1,279	1,172	2,451	93.08	1,211	2,392	3,603	88.37	1,323	1,233	2,556	95.66	1,407	1,283	2,670	104.40	1,311	1,201	2,512	97.36	1,218	1,150	2,368	90.90
Paracale	625	551	1,176	85.62	577	1,123	1,700	79.54	368	368	736	56.11	628	560	1,188	77.71	663	604	1,267	81.31	663	593	1,256	79.00
Sta. Elena	549	539	1,088	88.78	532	1,044	1,576	120.43	449	449	898	72.77	421	355	776	61.69	490	473	963	73.46	417	432	849	62.30
DISTRICT2	3,235	2,209	5,444	80.37	3,203	6,023	9,226	76.65	2,960	2,819	5,779	74.50	3,101	2,798	5,899	78.37	2,879	2,706	5,585	73.49	3,136	2,964	6,100	79.40
Basud	488	429	917	83.64	422	782	1,204	69.39	403	366	769	69.12	390	397	787	74.28	419	406	825	77.21	417	385	802	74.40
Daet	1,288	1,103	2,391	91.65	1,261	2,409	3,670	89.83	1,200	1,190	2,390	90.28	1,236	1,072	2,308	85.63	1,061	967	2,028	74.23	1,189	1,158	2,347	84.20
Mercedes	524	502	1,026	76.02	600	1,137	1,737	81.96	501	501	1,002	73.17	403	396	799	60.11	400	433	833	62.06	586	542	1,128	83.20
San Lorenzo Ruiz	127	111	238	62.99	156	269	425	69.26	96	75	171	44.60	128	116	244	70.80	129	109	238	68.78	150	125	275	79.20
San Vicente	126	111	237	81.53	112	214	326	71.62	120	111	231	78.32	134	113	247	88.01	123	111	234	82.69	121	122	243	85.20
Talisay	144	174	318	45.69	187	369	556	51.58	228	194	422	59.76	243	205	448	67.82	211	209	420	63.14	171	169	340	50.70
Vinzons	538	479	1,017	82.95	465	843	1,308	66.89	412	382	794	63.82	567	499	1,066	92.17	536	471	1,007	86.50	502	463	965	82.30

Source: Provincial Health Office

As to percentage of underweight pre-school and school children, San Vicente has 11.06% underweight school children in SY 2014-2015, just 0.93% lower than the provincial average. Among the municipalities with highest percentage of underweight are Mercedes with 16.74%, Vinzons with 16.21% and Talisay with 16.15%. (Table 43)

Table 43
**Number and Percentage of Underweight School Children,
 By Municipality: CY 2010-2015
 Province of Camarines Norte**

Municipality	SY 2009-2010		SY 2010-2011		SY 2011-2012		SY 2012-2013		SY 2013-2014		SY 2014-2015	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
CAMARINES NORTE	19,927	22.97	14,444	14.60	11,808	11.90			16,800	16.88	12,177	11.98
DISTRICT1	10,364		7,149		5,910	11.15			8,996	18.82	6,134	11.61
Capalonga	1,758	29.04	920	13.21	800	11.60			1,092	15.19	956	14.21
Jose Panganiban	2,061	22.99	1,431	13.96	1,344	12.08			2,319	19.80	1,138	9.78
Labo	2,092	14.18	2,254	13.93	1,469	9.13			2,411	14.35	1,856	12.43
Paracale	2,423	28.69	1,535	15.02	1,379	12.79			1,759	15.61	1,367	11.93
Sta. elena	2,030	28.52	1,009	14.45	918	11.31			1,415	17.10	817	10.06
							No Data Available					
DISTRICT2	9,563		7,295		5,898	12.77			7,804	16.32	6,043	12.40
Basud	1,185	18.57	890	12.30	694	10.68			928	14.27	734	9.74
Daet	2,223	16.09	2,109	13.45	1,329	11.43			2,400	14.58	1,376	8.50
Mercedes	2,671	34.04	2,033	21.69	1,699	18.95			1,549	18.34	1,577	16.74
San Lorenzo Ruiz	971	28.04	493	13.08	456	12.39			578	15.34	420	11.06
San Vicente												
Talisay	834	25.25	591	15.86	622	16.16			687	17.69	614	16.15
Vinzons	1,679	25.44	1,179	15.89	1,098	18.97			1,662	20.60	1,322	16.21

Source: Department of Education

a.9 Population Doubling Time

Doubling time is the amount of time taken for a given number of population to double in size or value at a constant growth rate. Population can grow at a constant rate, thus the time of 69 was used to approximate the doubling time of each barangay in the municipality. The higher the growth rate is the fastest its doubling time. Among the 12 barangays of San Vicente, barangay Calabagas has the fastest time of doubling its population with 18 years, followed by Iraya Sur with 26 years, Asdum with 35 years, Man-ogob with 39 years. The municipality itself will double in 73 years (Table 44) from 2015, thus population doubling time will be 2088.

Table 44
Doubling Time of Population
Municipality of San Vicente

Barangay	Growth Rate CY 2010-2015	Doubling Time (In Years)
Asdum	2.30	35
Cabanbanan	1.64	42
Calabagas	3.93	18
Fabrica	1.27	51
Iraya Sur	2.71	26
Man-Ogob	1.78	39
Kanluran	0.47	148
Silangan	0.47	148
San Jose	1.68	41
SAN VICENTE	0.96	73

b. Number of Affected Population and Household to Flood

Of the total 8,942 persons in San Vicente, 5,383 or 60% are affected to flood with 1,231 households at different levels of susceptibility.

Barangay Man-Ogob ranked first with 1,604 persons affected in the high susceptibility areas, 829 or 52% of which are female and 48% are males with equivalent number of 593 households. This is trailed behind by Barangay Silangan with 488 with barangays Calabagas and Fabrica having the least affected of only 4 persons each.

Only two (2) barangays namely: Asdum and Cabanbanan are affected in the moderate susceptibility areas with a total of 49 persons and 11 households, and 21 persons and 5 households, respectively.

Seven (7) barangays are affected in the low susceptibility areas with a total 2,595 persons affected and 602 households located in the barangays of Man-Ogob with 958, Cabanbanan 734, Barangay Kanluran 512 with Fabrica having the least of 20 persons affected. Flood height in the susceptibility areas measures 0-0.5 meters only and with flood duration of less than one (1) day, thus, not so risky to

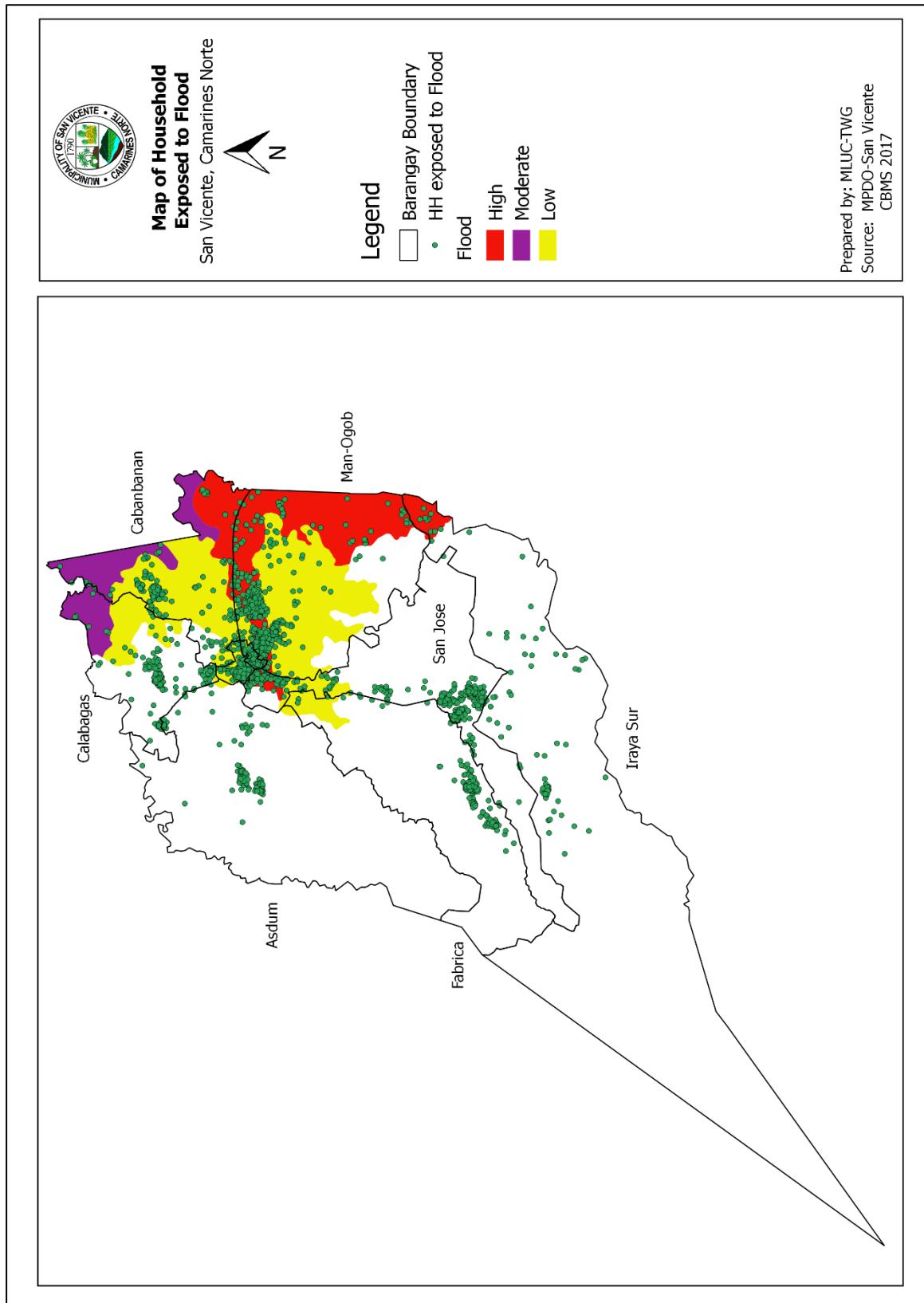
human population as compared to those in the high susceptibility areas. Proper engineering measures and policies shall be imposed in these areas to mitigate the hazard. (Table 45)

Table 45
Number of Affected Population and Household to Flood
By Susceptibility, By Barangay
San Vicente, Camarines Norte

BARANGAY	NO. OF POPN	NO. OF HOUSE HOLD	SUSCEPTIBILITY												TOTAL AFFECTED POPN	TOTAL AFFECTED HOUSE-HOLD
			HIGH			MODERATE			LOW							
			Affected HH	Population		Affected HH	Population		Affected HH	Population		Male	Female	Total	Male	Female
Asdum	548	114	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cabanbanan	983	216	22	55	53	108	11	21	28	49	167	379	355	734	891	200
Calabagas	942	204	1	3	1	4	5	11	10	21	13	29	21	50	75	19
Fabrica	989	211	1	2	2	4	-	-	-	-	3	11	9	20	24	4
Iraya Sur	328	88	8	60	56	116	-	-	-	-	-	-	-	-	116	8
Man-Ogob	2,585	593	371	775	829	1,604	-	-	-	-	218	483	475	958	2,562	589
Silangan	614	614	118	227	261	488	-	-	-	-	36	69	55	124	612	154
Kanluran	676	676	45	85	79	164	-	-	-	-	126	248	264	512	676	171
San Jose	1,825	1,825	47	110	120	230	-	-	-	-	39	89	108	197	427	86
TOTAL	9,490	4,541	613	1,317	1,401	2,718	16	32	38	70	602	1,308	1,287	2,595	5,383	1,231

Source: CBMS 2015

Figure 23
Map of Household Exposed to Flood
San Vicente, Camarines Norte



The most vulnerable during disasters are children, persons with disabilities, poor and informal settlers and the senior citizens.

Of the 0-5 years old, there are 663 affected at the different levels of susceptibility to flood or 51% of the total 1,300. Among these number, 291 are located in the high susceptibility areas with 10 malnourished children in the barangays of Man-Ogob and Silangan, and 15 in the low susceptibility areas (Table 44). Sixteen (16) of 0-5 years old are in the moderate susceptibility areas of Cabanbanan and Calabagas while there are 559 in the low susceptibility areas (Table 46).

Table 46
Number of Malnourished Children Exposed to Flood
By Susceptibility, By Barangay
San Vicente, Camarines Norte

BARANGAY	NO. OF POPN 0-5 YEARS OLD			SUSCEPTIBILITY									TOTAL AFFECTED POP'N 0-5 YEARS OLD
				HIGH			MODERATE			LOW			
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Asdum	44	54	98	-	-	-	-	-	-	-	-	-	-
Cabanbanan	88	68	156	-	-	-	-	-	-	5	3	8	8
Calabagas	76	67	143	-	-	-	-	-	-	-	-	-	-
Fabrica	67	78	145	-	-	-	-	-	-	-	-	-	-
Iraya Sur	28	29	57	-	-	-	-	-	-	-	-	-	-
Man-Ogob	171	140	311	4	2	6	-	-	-	4	1	5	11
Silangan	33	33	66	2	2	4	-	-	-	-	-	-	4
Kanluran	38	36	74	-	-	-	-	-	-	1	1	2	2
San Jose	130	120	250	-	-	-	-	-	-	-	-	-	-
TOTAL	675	625	1,300	6	4	10	-	-	-	10	5	15	25

Source: CBMS 2015

Figure 24

**Map of Malnourished Children Exposed to Flood
San Vicente, Camarines Norte**

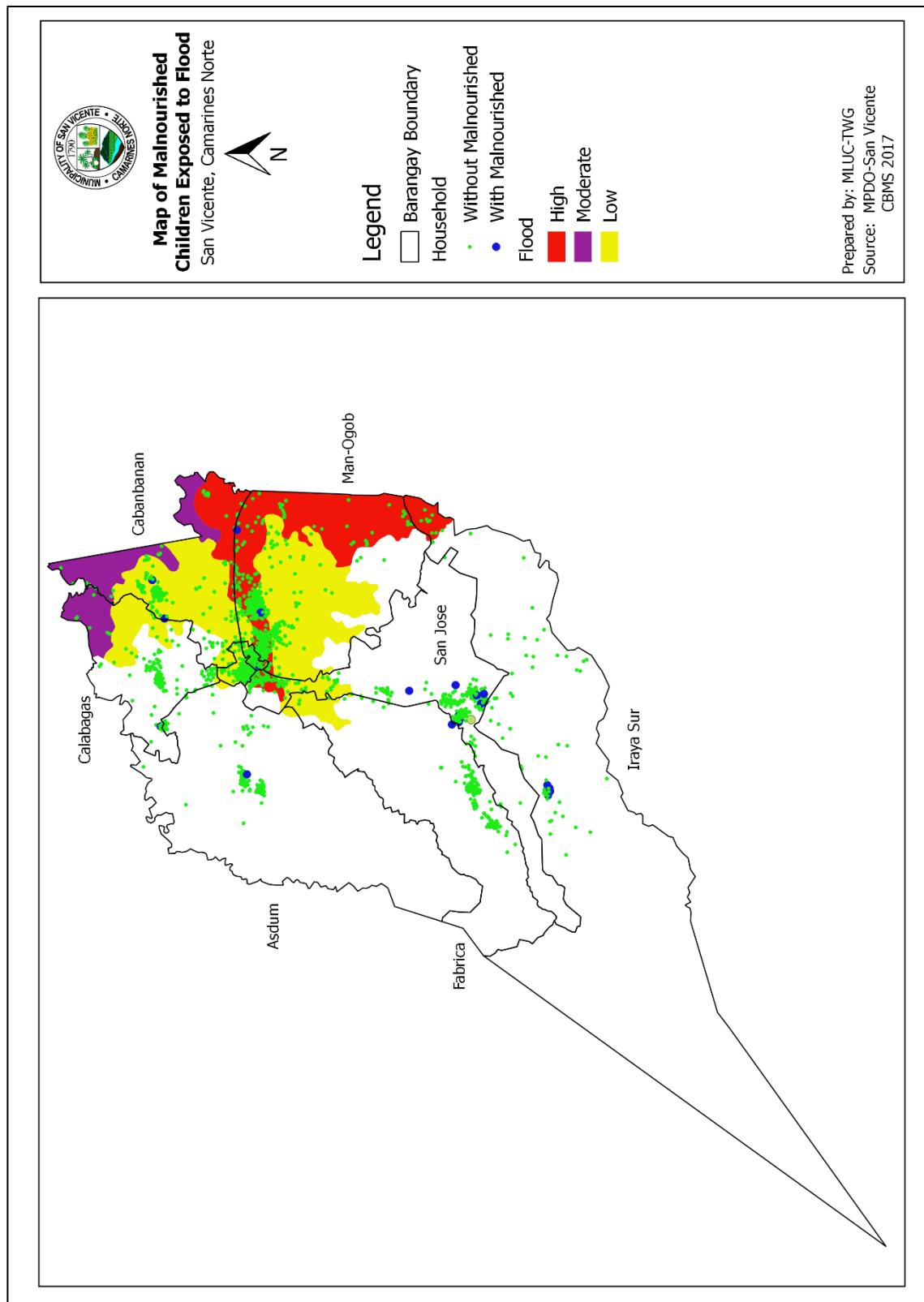
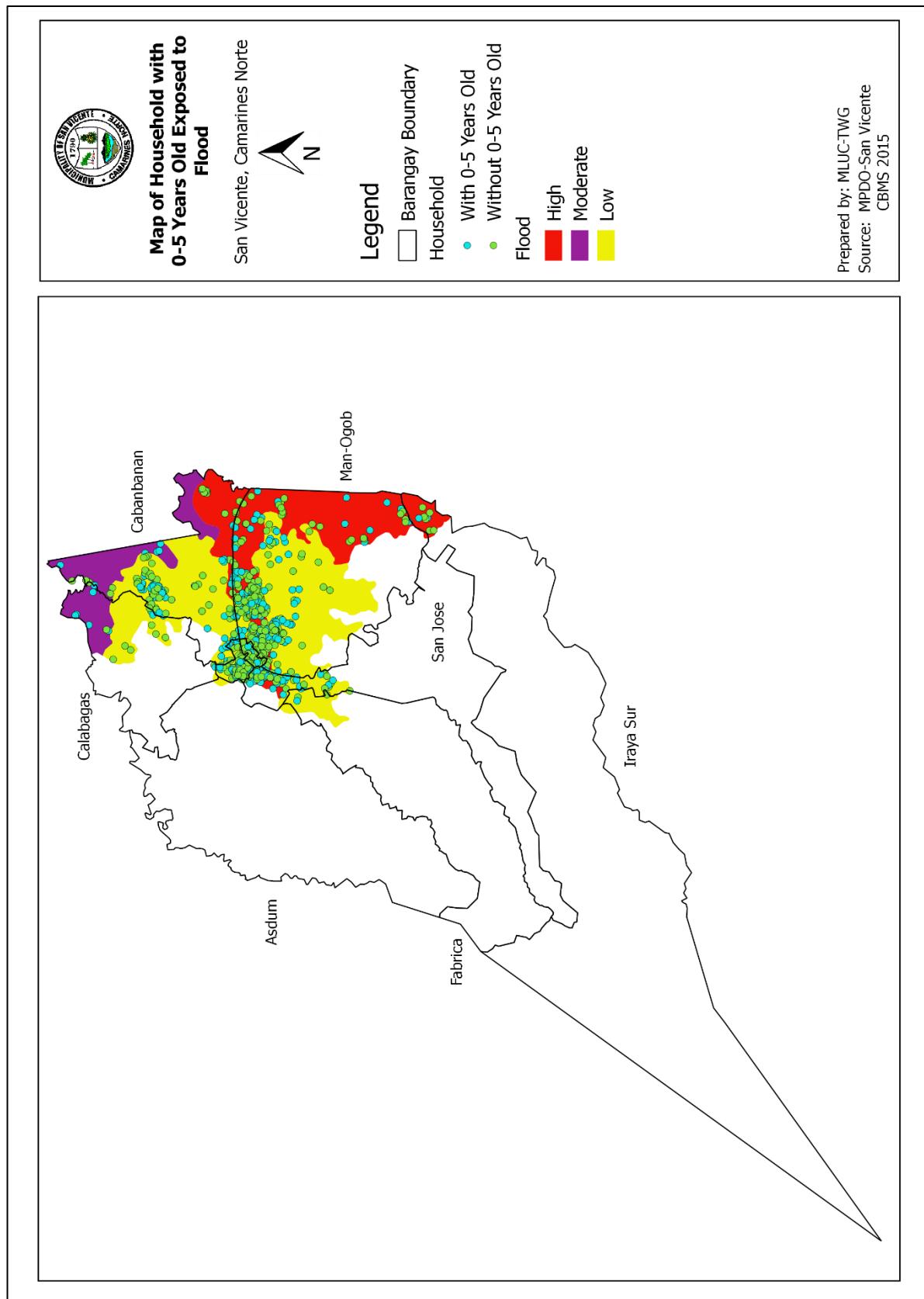


Figure 25
Map of 0-5 Years Old Exposed to Flood
San Vicente, Camarines Norte



A total of 1,150 school children or 54% of the total 6-15 years old are exposed to flood at different levels of susceptibility with 575 in the high susceptibility and 16 and 559 exposed in the moderate and low susceptibility respectively (Table 47).

Table 47
Number of 6-15 Years Old Exposed to Flood
By Susceptibility, By Barangay

BARANGAY	NUMBER OF POPULATION 6-15 YEARS OLD			SUSCEPTIBILITY									Total Affected Pop'n	
				HIGH			MODERATE			LOW				
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total		
Asdum	58	58	116	-	-	-	-	-	-	-	-	-	-	
Cabanbanan	109	119	228	16	14	30	6	6	12	81	85	166	208	
Calabagas	109	107	216	-	-	-	3	1	4	9	4	13	17	
Fabrica	113	134	247	-	-	-	-	-	-	6	4	10	10	
Iraya Sur	38	29	67	6	4	10	-	-	-	-	-	-	10	
Man-Ogob	284	294	578	178	183	361	-	-	-	101	106	207	568	
Silangan	71	43	114	61	40	101	-	-	-	10	3	13	114	
Kanluran	67	60	127	8	7	15	-	-	-	57	52	109	124	
San Jose	241	220	461	30	28	58	-	-	-	15	26	41	99	
TOTAL	1,090	1,064	2,154	299	276	575	9	7	16	279	280	559	1,150	

Source: CBMS 2015

One of the major challenges faced by the persons with disabilities is the risk to different hazards. In this concern, there are 52 persons affected to flood in the municipality, 22 of them are in the high susceptibility areas of Barangays Man-Ogob, Silangan, Kanluran and Cabanbanan (Table 48 and Figure 26) and thirty (30) are in the low susceptibility areas. Proper measures that will ensure the protection of persons with disabilities shall be put in place to improve their well-being.

Table 48
Number of Persons with Disabilities Exposed to Flood
By Susceptibility, By Barangay

BARANGAY	TOTAL POPN	SUSCEPTIBILITY									TOTAL AFFECTED POPN	
		HIGH			MODERATE			LOW				
		Male	Female	Total	Male	Female	Total	Male	Female	Total		
Asdum	548	-	-	-	-	-	-	-	-	-	-	
Cabanbanan	983	-	1	1	-	-	-	4	4	8	9	
Calabagas	942	-	-	-	-	-	-	1	-	1	1	
Fabrica	989	-	-	-	-	-	-	-	-	-	-	
Iraya Sur	328	-	-	-	-	-	-	-	-	-	-	
Man-Ogob	2,585	5	5	10	-	-	-	3	3	6	16	
Silangan	614	5	5	10	-	-	-	7	1	8	18	
Kanluran	676	-	1	1	-	-	-	2	3	5	6	
San Jose	1,825	-	-	-	-	-	-	1	1	2	2	
TOTAL	9,490	10	12	22	-	-	-	18	12	30	52	

Source: CBMS 2015

Figure 26
Map of 6-15 Years Old Exposed to Flood
San Vicente, Camarines Norte

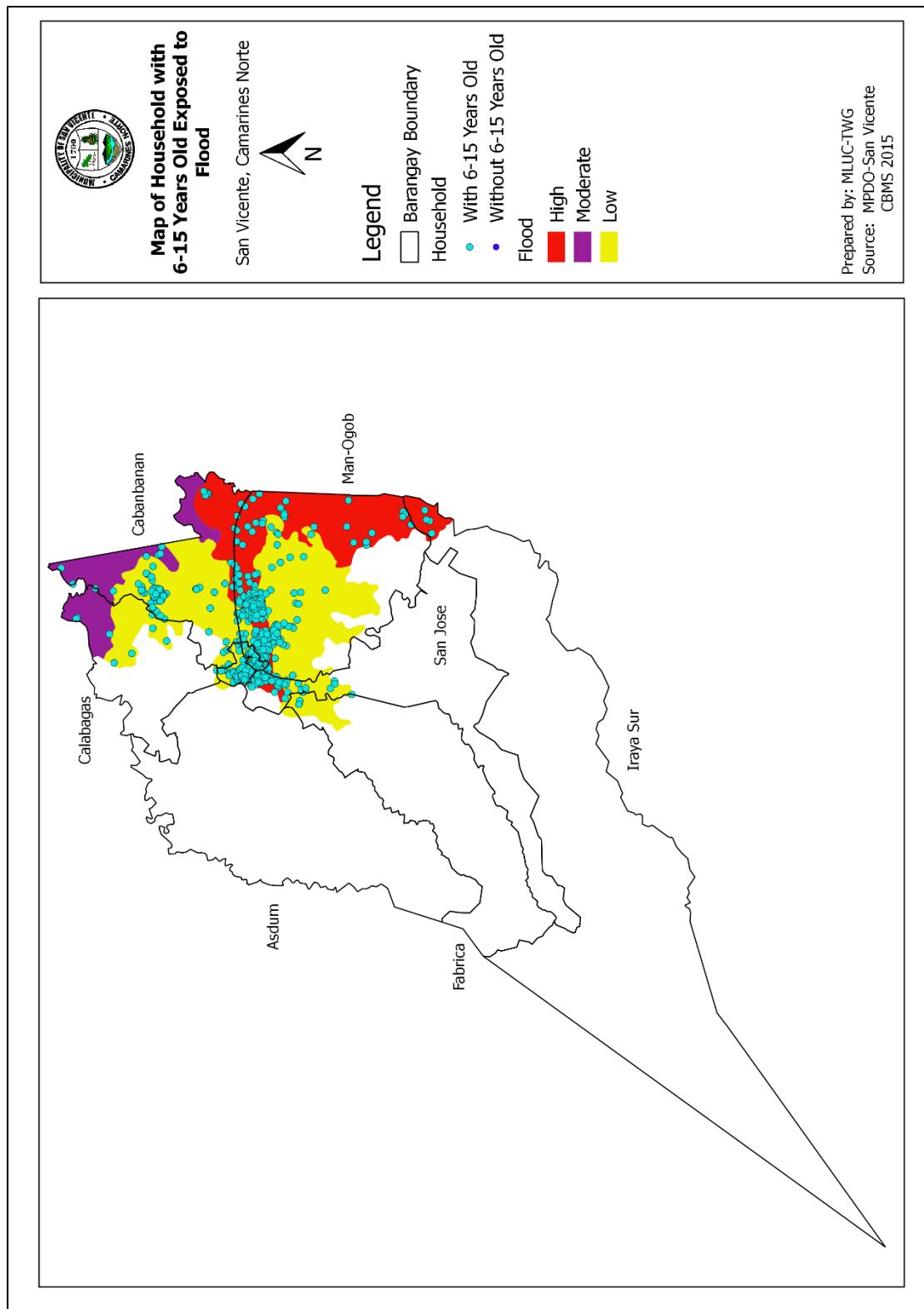
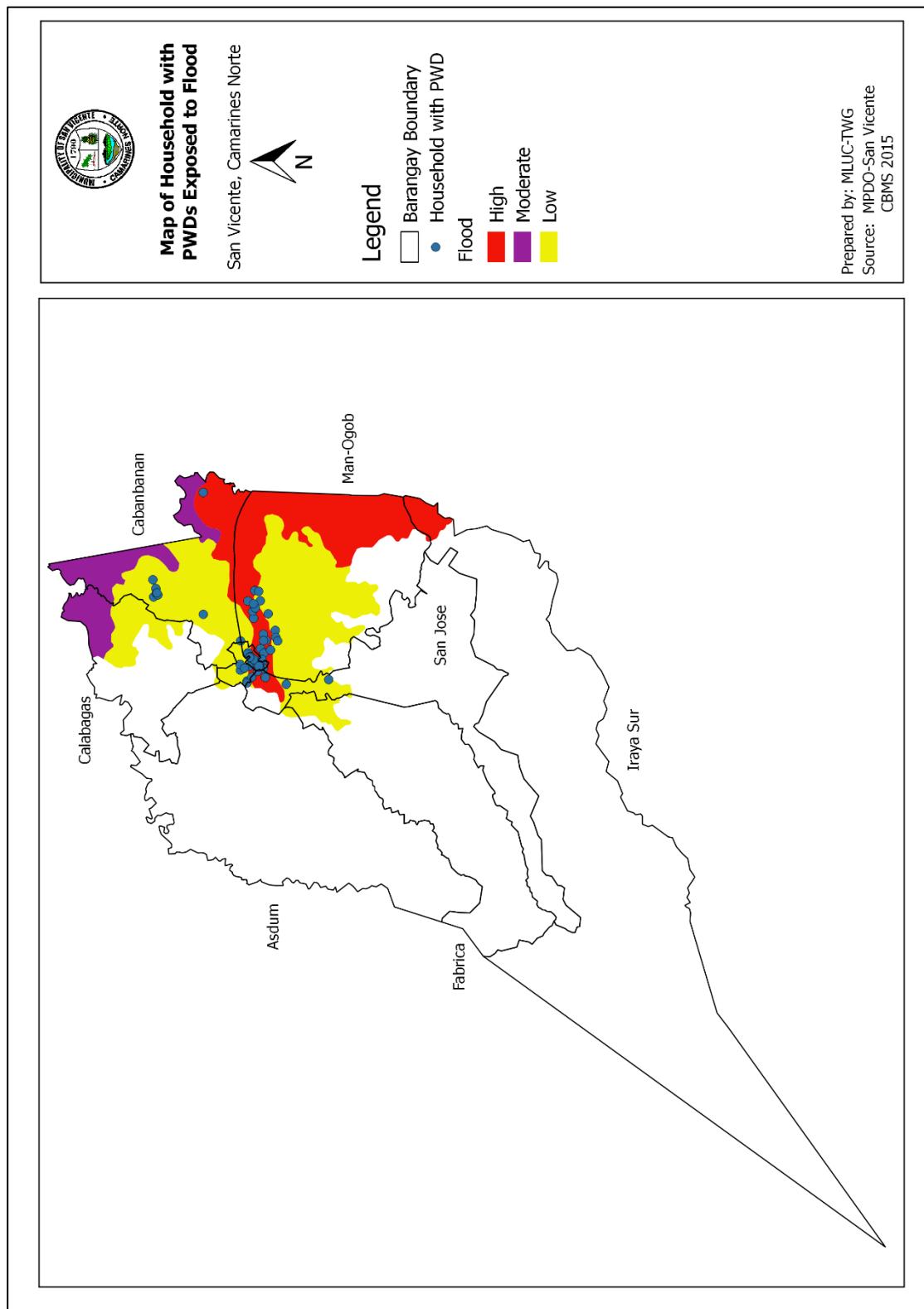


Figure 27
Map of Persons with Disabilities Old Exposed to Flood
San Vicente, Camarines Norte



Poverty is a life without basic utilities, food security and without many possessions to combat the effect of disaster. Of the total 4,541 households of San Vicente, 2,139 or 47% are considered poor. Of these number of poor, 638 or 30% are affected by flood, 274 or 43% of the total affected are in the high susceptibility areas, 12 or 2% on the moderate susceptibility areas and 352 or 55% is the low susceptibility areas (Table 49). Measure that will build resilience of the poor and all of those in vulnerable situations to reduce their exposure and vulnerability to climate-related events shall be given preferential priority to include access to basic services and sound policies of the municipality.

Table 49

Number of Household with Income Below Poverty Exposed to Flood

By Susceptibility, By Barangay

San Vicente, Camarines Norte

BARANGAY	NO. OF HH	SUSCEPTIBILITY												Total Affected HH	
		Affected HH	HIGH Population			Affected HH	MODERATE Population			Affected HH	LOW Population				
			Population		Total		Population		Total		Population		Total		
			Male	Female			Male	Female			Male	Female			
Asdum	122	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cabanbanan	262	12	41	37	78	7	15	19	34	112	277	253	530	131	
Calabagas	247	-	-	-	-	5	11	10	21	9	23	14	37	14	
Fabrica	248	1	2	2	4	-	-	-	-	2	8	7	15	3	
Iraya Sur	78	7	15	14	29	-	-	-	-	-	-	-	-	7	
Man-Ogob	609	185	441	464	905	-	-	-	-	129	301	296	597	314	
Silangan	154	30	78	70	148	-	-	-	-	17	24	19	43	47	
Kanluran	218	16	31	34	65	-	-	-	-	58	126	113	239	74	
San Jose	462	23	62	62	124	-	-	-	-	25	63	72	135	48	
TOTAL	2,400	274	670	683	1,353	12	26	29	55	352	822	774	1,596	638	

Source: CBMS 2015

There are also 13 informal settlers located in the high susceptibility areas of Man-Ogob and Silangan (Poblacion I) estimated at 9 households and 4 in the low susceptibility areas that are affected to flood (Table 50).

Table 50

Number of Informal Settlers Exposed to Flood By Susceptibility, By Barangay

San Vicente, Camarines Norte

Barangay	No. of HH	Susceptibility												Total Affected HH	
		Affected HH	High			Affected HH	Moderate			Affected HH	Low				
			Male	Female	Total		Male	Female	Total		Male	Female	Total		
Asdum	122	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cabanbanan	262	-	-	-	-	-	-	-	-	1	2	5	7	1	
Calabagas	247	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fabrica	248	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iraya Sur	78	-	-	-	-	-	-	-	-	-	-	-	-	-	
Man-Ogob	609	2	9	7	16	-	-	-	-	1	3	2	5	3	
Silangan	154	7	18	19	37	-	-	-	-	1	1	1	2	8	
Kanluran	218	-	-	-	-	-	-	-	-	1	1	3	4	1	
San Jose	462	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total	2,400	9	27	26	53	-	-	-	-	4	7	11	18	13	

Figure 28
Map of Household with Income Below Poverty Exposed to Flood
San Vicente, Camarines Norte

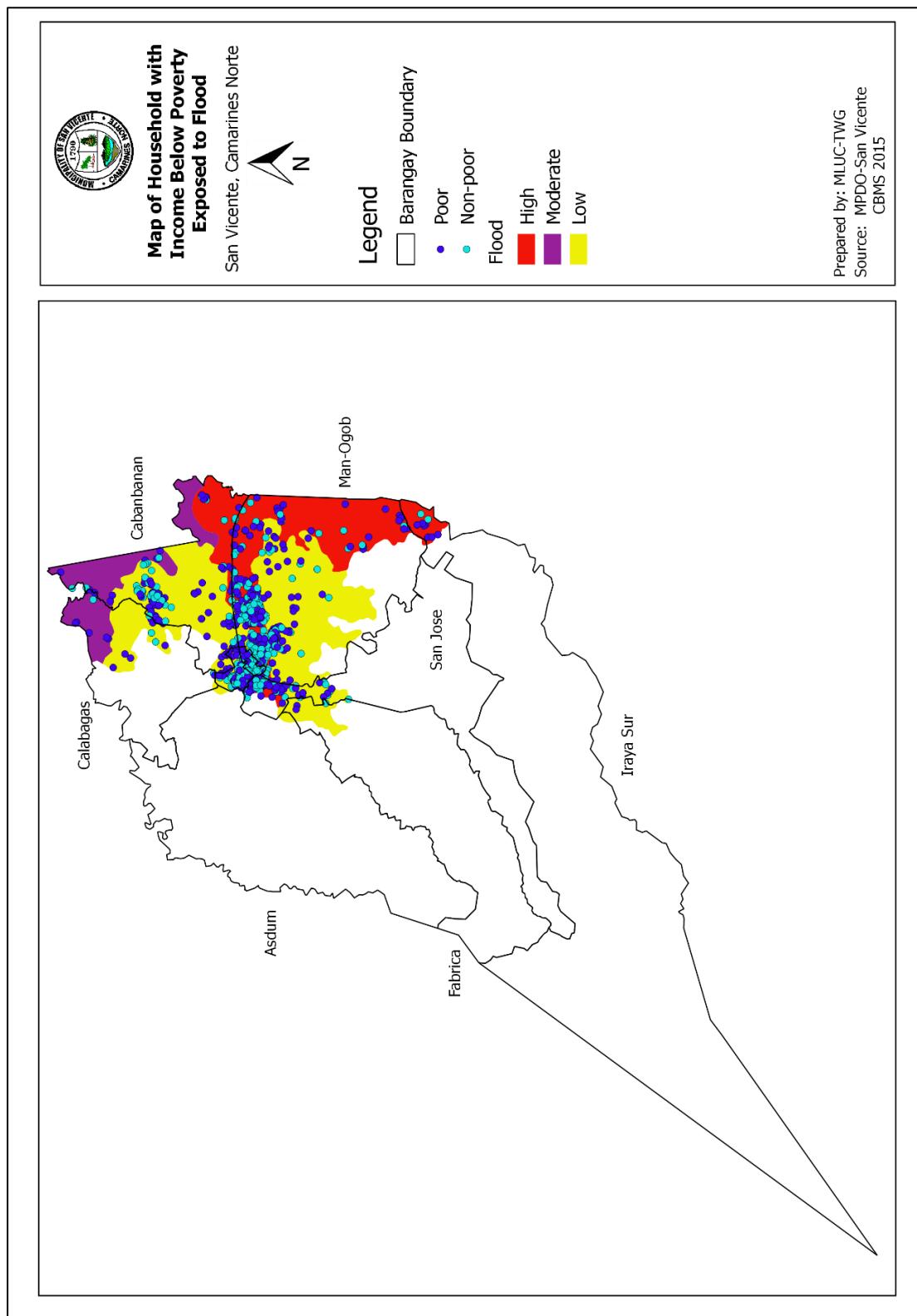
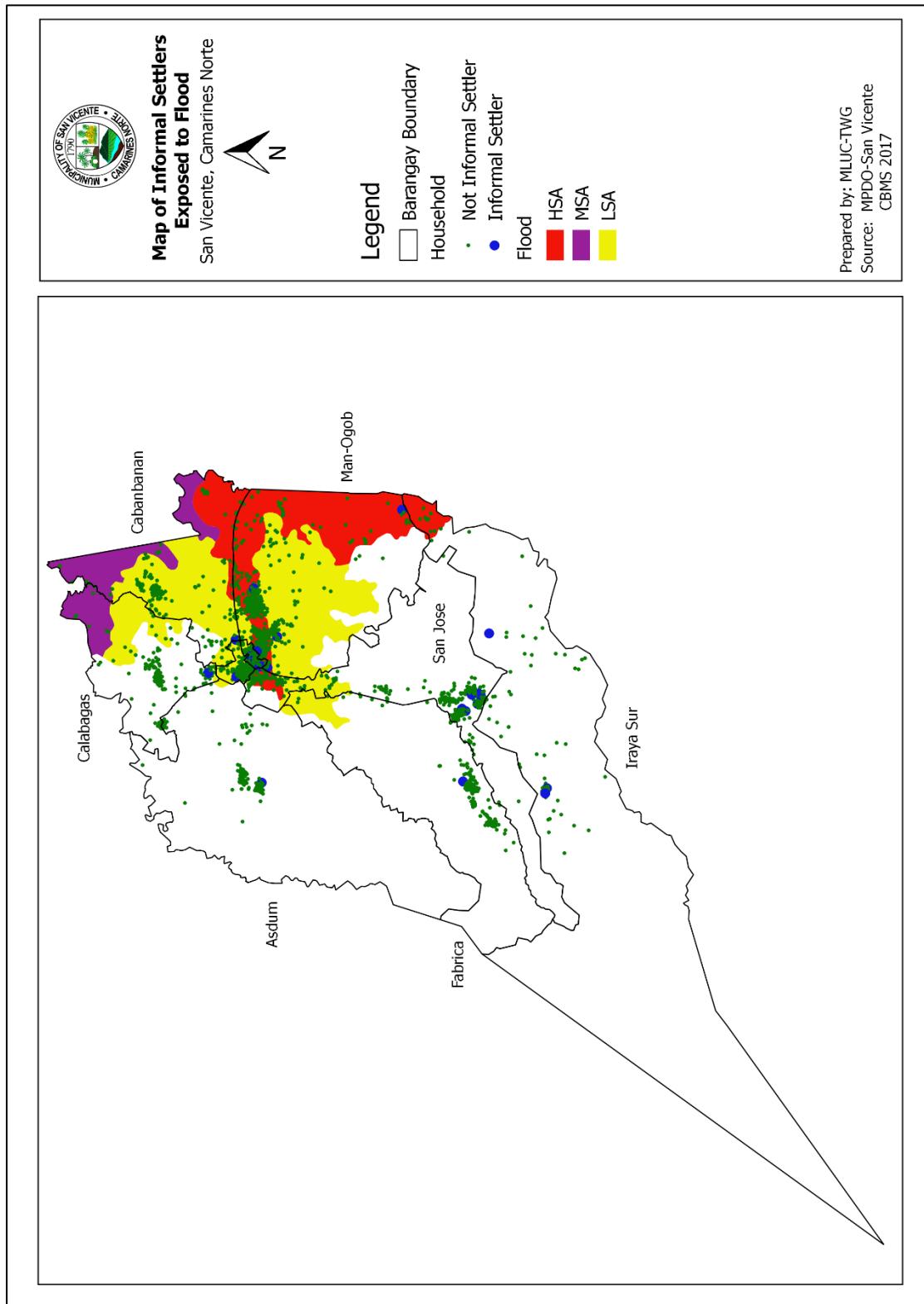


Figure 29
Map of Informal Settlers Exposed to Flood
San Vicente, Camarines Norte



Senior citizens affected to flood is accounted to 347 persons, 183 or 58% of which mostly women are in the high susceptibility areas and mostly found in Barangay Man-Ogob with 93, Silangan (Poblacion I) – 46, Kanluran (Poblacion 2) – 26, San Jose – 12, and Cabanbanan with 6. (Table 510).

The risk of population to flood has been computed using the likelihood of occurrence, exposure, sensitivity, adaptive capacity and vulnerability.

Likewise, the severity of consequence has been generated through the exposure and vulnerability scores and included in the computation of risk.

In summary, Barangay Silangan (Poblacion I) has the high risk to flood, while Barangay Cabanbanan, Calabagas, Fabrica, Iraya Sur, Man-Ogob, Kanluran (Poblacion 2) and San Jose has moderate to low risk to flood (Table 52).

Table 51
Number of 65 Years Old and Above Exposed to Flood
By Susceptibility, By Barangay
San Vicente, Camarines Norte

BARANGAY	SUSCEPTIBILITY									Total Affected Pop	
	HIGH			MODERATE			LOW				
	Male	Female	Total	Male	Female	Total	Male	Female	Total		
Asdum	-	-	-	-	-	-	-	-	-	-	
Cabanbanan	4	2	6	1	2	3	20	26	46	55	
Calabagas	-	-	-	1	1	2	1	2	3	5	
Fabrica	-	-	-	-	-	-	-	-	-	-	
Iraya Sur	-	-	-	-	-	-	-	-	-	-	
Man-Ogob	35	58	93	-	-	-	21	27	48	141	
Silangan	17	29	46	-	-	-	6	9	15	61	
Kanluran	11	15	26	-	-	-	13	24	37	63	
San Jose	5	7	12	-	-	-	6	4	10	22	
TOTAL	72	111	183	2	3	5	67	92	159	347	

Source: CBMS 2015

Figure 30
Map of Household with 65 Years Old and Above Exposed to Flood
San Vicente, Camarines Norte

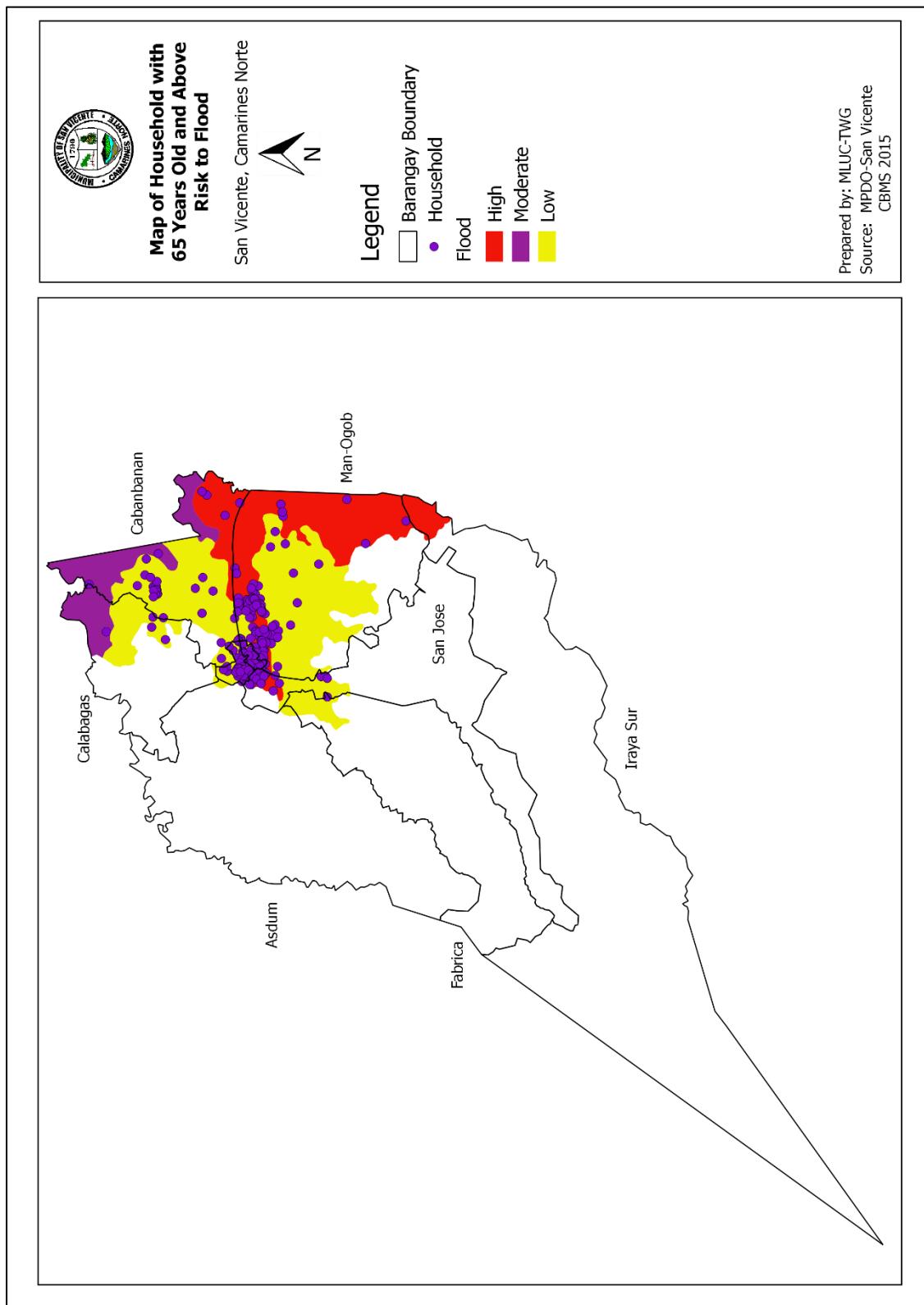
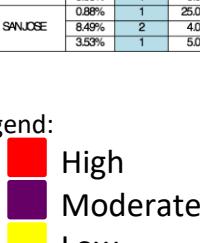


Table 52
Population Exposure Database and Risks to Flood Hazard
By Barangay, By Susceptibility
San Vicente, Camarines Norte

Barangay	HAZARD			EXPOSURE						SENSITIVITY																
	Flood Susceptibility	Likelihood of Occurrence Size	Flood depth	Magnitude Score	Barangay Population	Number HH	Affected HH	Affected Population	Exposure Percentage	Exposure Score	Percentage of Informal Setters (IS)	Percentage living in dwelling units made from light materials or salvagable materials	Percentage of young and old dependents	Percentage of persons with disabilities	Percentage below the Poverty Threshold	Percentage Malnourished Individuals	Average Sensitivity Score									
	Low	Moderate	High	The Arrested Assume (Score range 1-5)	s/m for moderate and high for high	Magnitude scores are relative to the highest level of hazard category given during risk assessment	Total Population of the barangay/PSA QMBS	Number of HH of the barangay/PSA QMBS	Affected HH	Affected Population	Affected HH divided by Total Population of the barangay/PSA QMBS * 100	Exposure Score	Number of exposed HH	No. of HH affected by flood	Sensitivity Score	No. of exposed persons or dependents	No. of affected persons or dependents	Sensitivity Score	No. of exposed individuals below Poverty Threshold	No. of affected individuals below Poverty Threshold	Sensitivity Score	No. of exposed malnourished individuals divided by affected population	Rounded up average sensitivity score			
1	ASDUM	Low	3 xfm	0.33	548	114	0	0	0.00%	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!					
	Moderate	4 xfm	0.66	548	114	0	0	0	0.00%	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!					
	High	5 xfm	1	548	114	0	0	0	0.00%	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!					
2	CABANBAN	Low	3 xfm	0.33	663	216	107	73	35.07%	4	1	2	381	107	4	10.00%	1	12	4.00%	4	1.00%	2				
	Moderate	4 xfm	0.66	663	216	111	48	49	4.99%	0	0.00%	1	261	48	4	0.00%	1	73	63.64%	4	0.00%	1				
	High	5 xfm	1	663	216	22	108	108	10.09%	3	0	0.00%	1	0.00%	1	45	42.59%	4	1.00%	1	12	54.95%	4	0.00%	1	
3	CALABAGAS	Low	3 xfm	0.33	942	204	13	50	5.31%	2	0	0.00%	1	0	0.00%	1	20	40.00%	4	1.00%	1	9	68.23%	4	0.00%	1
	Moderate	4 xfm	0.66	942	204	51	21	21	21.02%	1	0	0.00%	1	13	21	1	0.00%	1	100	100.00%	4	0.00%	1			
	High	5 xfm	1	942	204	204	1	4	0.42%	1	0	0.00%	1	1	0	0.00%	1	25.50%	4	0.00%	1	0.00%	1			
4	FABRICA	Low	3 xfm	0.33	990	211	3	20	2.02%	1	0	0.00%	1	0	0.00%	1	11	55.05%	4	0.00%	1	2	66.67%	4	0.00%	1
	Moderate	4 xfm	0.66	990	211	0	0	0	0.00%	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!					
	High	5 xfm	1	990	211	4	4	4	0.40%	0	0.00%	0	0	0.00%	0	2	0.00%	0	100.00%	4	0.00%	0				
5	IRAYASUR	Low	3 xfm	0.33	526	86	0	0	0.00%	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!					
	Moderate	4 xfm	0.66	526	86	0	0	0	0.00%	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!					
	High	5 xfm	1	526	86	86	6	14	0.00%	1	0	0.00%	1	14	12.50%	3	0.00%	1	87.50%	4	0.00%	1				
6	MAN-OGOB	Low	3 xfm	0.33	2695	663	263	663	36.30%	1	0	0.00%	1	1	0.00%	1	263	663	4	0.00%	1	2				
	Moderate	4 xfm	0.66	2695	663	371	1604	62.09%	4	2	0.54%	1	627	36.09%	4	10.00%	1	185	49.87%	4	6.00%	1				
	High	5 xfm	1	2695	663	1604	1604	1604	100.00%	1	0	0.00%	1	1	0.00%	1	177	100.00%	4	0.00%	1					
7	SILANGAN	Low	3 xfm	0.33	614	161	1	0	0.00%	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!					
	Moderate	4 xfm	0.66	614	161	155	118	48	79.48%	4	7	5.00%	2	1	0.00%	1	200	40.00%	4	10.00%	1	30	25.42%	4	4.00%	1
	High	5 xfm	1	614	161	161	161	161	100.00%	4	1	0.00%	1	1	0.00%	1	51	46.03%	4	2.00%	1	2				
8	KANLURAN	Low	3 xfm	0.33	771	276	46	126	51.2%	4	29.42%	4	1	0.00%	1	0.00%	1	25	40.00%	4	0.00%	1	2			
	Moderate	4 xfm	0.66	771	276	46	126	126	100.00%	4	0.00%	1	0	0.00%	1	0	0.00%	1	25	64.10%	4	0.00%	1			
	High	5 xfm	1	771	276	46	126	126	100.00%	4	0.00%	1	0	0.00%	1	1	0.00%	1	25	88.20%	4	0.00%	1			
9	SANJOSE	Low	3 xfm	0.33	1825	387	36	197	10.79%	3	0	0.00%	1	0	0.00%	1	75	38.07%	4	2.00%	1	25	64.10%	4	0.00%	1
	Moderate	4 xfm	0.66	1825	387	37	0	0	0.00%	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!					
	High	5 xfm	1	1825	387	37	0	0	0.00%	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!					
Barangay	ADAPTIVE CAPACITY			ACCESS TO INFORMATION						GOVERNMENT INVESTMENTS			VULNERABILITY				RISK SCORE									
	Access to infrastructure-related mitigation measures			Access to financial assistance		Capacity and willingness to retrofit or relocate		Access to information		Government Investments		Average Adaptive Capacity Score	Hazard Exposure Score	Vulnerability Index	Vulnerability Score	Severity of Consequence Score	Risk Score	Risk Category								
	Proportion of HH with access to measures	Adaptive Capacity Score	Proportion of HH with access to financial assistance	Adaptive Capacity Score	Proportion of HH that are capable/willing	Adaptive Capacity Score	Proportion of HH with access to information	Adaptive Capacity Score	Capacity of government to make investments in CCA/DRR/bw; moderate, high, very high	Adaptive Capacity Score	Rounded down average adaptive capacity score	Magnitude Score multiply to Exposure Score	Sensitivity Score divided by Adaptive Capacity Score	Vulnerability Scores are based on the calculated Exposure Score and Vulnerability Index (see Scoring Tab)	Severity of Consequence multiplied to likelihood of Occurrence	see Scoring Tab										
1	ASDUM	12.50%	3	15.00%	3	14.00%	3	22.00%	4	low	1	2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!								
	20.00%	4	12.00%	3	13.00%	3	15.00%	3	moderate	2	3	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!									
	1.71%	1	11.00%	3	12.50%	3	23.00%	4	high	3	2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!									
2	CABANBAN	11.11%	3	10.00%	2	15.00%	3	18.00%	3	very high	4	3	1.32	0.6666666667	0.50	1.00	3.00	low								
	8.42%	2	8.80%	4	10.00%	2	21.00%	4	very high	4	2	0.66	1	0.50	1.00	4.00	moderate									
3	CALABAGAS	4.30%	1	5.00%	1	25.00%	4	22.00%	4	moderate	2	2	0.66	1	0.50	1.00	3.00	low								
	4.83%	1	3.00%	1	50.00%	4	24.00%	4	high	3	2	1	1	0.50	1.00	5.00	moderate									
4	FABRICA	0.88%	1	25.00%	4	48.00%	4	24.00%	4	low	1	2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!								
	8.49%	2	4.00%	1	54.00%	4	25.00%	4	high	3	2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!									
	3.53%	1	5.00%	1	81.00%	4	20.00%	4	low	1	2	4	1	0.50	1.00	2.00	10.00	moderate								
5	IRAYASUR	0.88%	1	25.00%	4	48.00%	4	24.00%	4	low	1	2	1.32	1	0.50	1.00	3.00	low								
	8.49%	2	4.00%	1	54.00%	4	25.00%	4	high	3	2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!									
	3.53%	1	5.00%	1	81.00%	4	20.00%	4	low	1	2	4	1	0.50	1.00	2.00	10.00	moderate								
6	MAN-OGOB	0.88%	1	25.00%	4	48.00%	4	24.00%	4	low	1	2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!								
	8.49%	2	4.00%	1	54.00%	4	25.00%	4	high	3	2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!									
	3.53%	1	5.00%	1	81.00%	4	20.00%	4	low	1	2	4	1	0.50	1.00	2.00	10.00	moderate								
7	SILANGAN	0.88%	1	25.00%	4	48.00%	4	24.00%	4	low	1	2	1.32	1.5	0.75	1.00	3.00	low								
	8.49%	2	4.00%	1	54.00%	4	25.00%	4	high	3	2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!									
	3.53%	1	5.00%	1	81.00%	4	20.00%	4	low	1	2	4	1	0.50	1.00	2.00	10.00	moderate								
8	KANLURAN	0.88%	1	25.00%	4	48.00%	4	24.00%	4	low	1	2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!								
	8.49%	2	4.00%	1	54.00%	4	25.00%	4	high	3	2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!									
	3.53%	1	5.00%	1	81.00%	4	20.00%	4	low	1	2	4	1	0.50	1.00	2.00	10.00	moderate								
9	SANJOSE	0.88%	1	25.00%	4	48.00%	4	24.00%	4	low	1	2	0.99	1	0.50	1.00	3.00	low								
	8.49%	2	4.00%	1	54.00%	4	25.00%	4	high	3	2	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!									
	3.53%	1	5.00%	1	81.00%	4	20.00%	4	low	1	2	4	1	0.50	1.00	2.00	10.00	moderate								

Legend:



c. Number of Affected Population and Household to Rainfall Induced Landslide

Of the total 8,942 persons in San Vicente, 4,236 or 45% are affected to Rainfall Induced Landslide and 922 households. 212 households in moderate susceptibility and around 710 are in low susceptibility.

Barangay Fabrica ranked first with 605 persons affected in the moderate susceptibility areas, 319 or 52% of which are female and 286 or 48% are males with equivalent number of 127 households. This is trailed behind by Barangay Iraya Sur with 271 persons and Barangay Silangan having the least affected of only 4 persons.

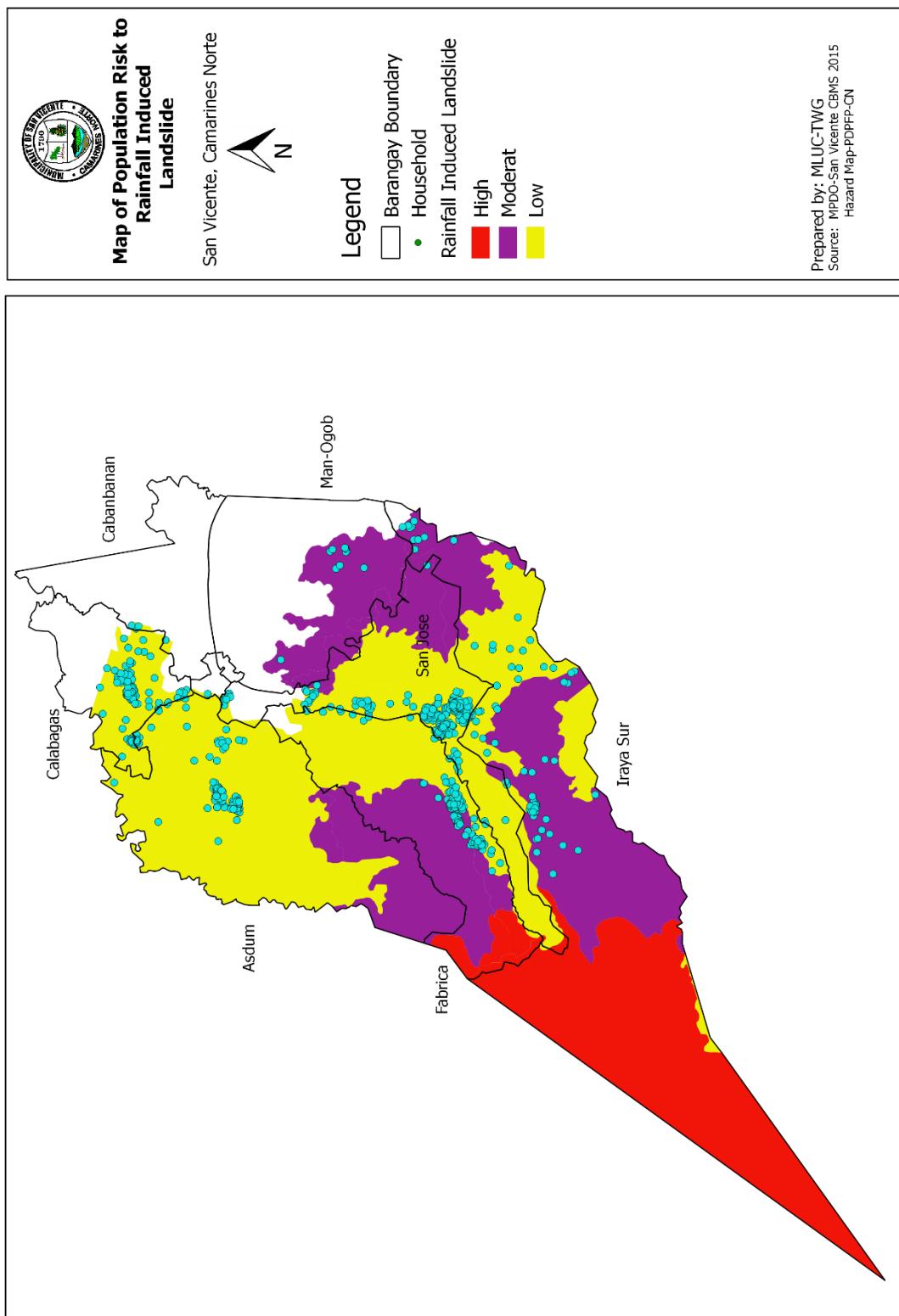
Eight (8) barangays are affected in the low susceptibility areas with a total of 3,296 persons affected and 710 households located in the barangays of San Jose with 1,465, Calabagas 813, Barangay Asdum 548, Fabrica 365, Barangay Iraya Sur with 48, Cabanbanan 34, Barangay Kanluran with 15 and Barangay Man-Ogob having the least of 8 persons affected (Table 53).

Table 53
Number of Affected Population and Household to Rainfall Induced Landslide
By Susceptibility, By Barangay
San Vicente, Camarines Norte

BARANGAY	TOTAL POPN	Total House-hold	SUSCEPTIBILITY												Total Affected Popn	Total Affected HH		
			HIGH Population			MODERATE Population			LOW Population									
			Affected HH		Affected HH	Male		Female	Male		Female	Male		Female				
			Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total				
Asdum	548	114	-	-	-	-	-	-	-	-	-	114	267	281	548	548	114	
Cabanbanan	983	216	-	-	-	-	-	-	-	-	-	6	16	18	34	34	6	
Calabagas	942	204	-	-	-	-	-	-	-	-	-	172	414	399	813	813	172	
Fabrica	989	211	-	-	-	-	127	286	319	605	81	176	189	365	970	208		
Iraya Sur	328	88	-	-	-	-	67	154	117	271	19	29	19	48	319	86		
Man-Ogob	2,585	593	-	-	-	-	9	14	23	37	1	5	3	8	45	10		
Silangan	614	614	-	-	-	-	2	2	2	4	-	-	-	-	4	2		
Kanluran	676	676	-	-	-	-	-	-	-	-	4	6	9	15	15	4		
San Jose	1,825	1,825	-	-	-	-	7	11	12	23	313	749	716	1,465	1,488	320		
TOTAL	9,490	4,541	-	-	-	-	212	467	473	940	710	1,662	1,634	3,296	4,236	922		

Source: CBMS 2015

Figure 31
Map of Household Exposed to Rainfall Induced Landslide
San Vicente, Camarines Norte



During the disasters, the most vulnerable are children, persons with disabilities, poor, informal settlers and the senior citizen.

Of the 1,300 total number of 0-5 years old, there are 22 affected malnourished children, 11 male and 11 female. Among these number, 4 are located in Barangay Iraya Sur affected in moderate susceptible areas and 18 in low susceptible areas in the Barangays of Iraya Sur with 14 and 1 each in the barangays of Asdum, Cabanbanan, Calabagas and Fabrica (Table 54).

Table 54

**Number of Malnourished Children Exposed to Rainfall Induced Landslide
By Susceptibility, By Barangay
San Vicente, Camarines Norte**

BARANGAY	NO. OF POPN 0-5 YEARS OLD			SUSCEPTIBILITY									TOTAL AFFECTED POP'N
				HIGH			MODERATE			LOW			
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Asdum	44	54	98	-	-	-	-	-	-	1	-	1	1
Cabanbanan	88	68	156	-	-	-	-	-	-	1	-	1	1
Calabagas	76	67	143	-	-	-	-	-	-	1	-	1	1
Fabrica	67	78	145	-	-	-	-	-	-	-	1	1	1
Iraya Sur	28	29	57	-	-	-	3	1	4	5	9	14	18
Man-Ogob	171	140	311	-	-	-	-	-	-	-	-	-	-
Silangan	33	33	66	-	-	-	-	-	-	-	-	-	-
Kanluran	38	36	74	-	-	-	-	-	-	-	-	-	-
San Jose	130	120	250	-	-	-	-	-	-	-	-	-	-
TOTAL	675	625	1,300	-	-	-	3	1	4	8	10	18	22

Source: CBMS 2015

Figure 32

**Map of Malnourished Children Exposed to Rainfall Induced Landslide
San Vicente, Camarines Norte**

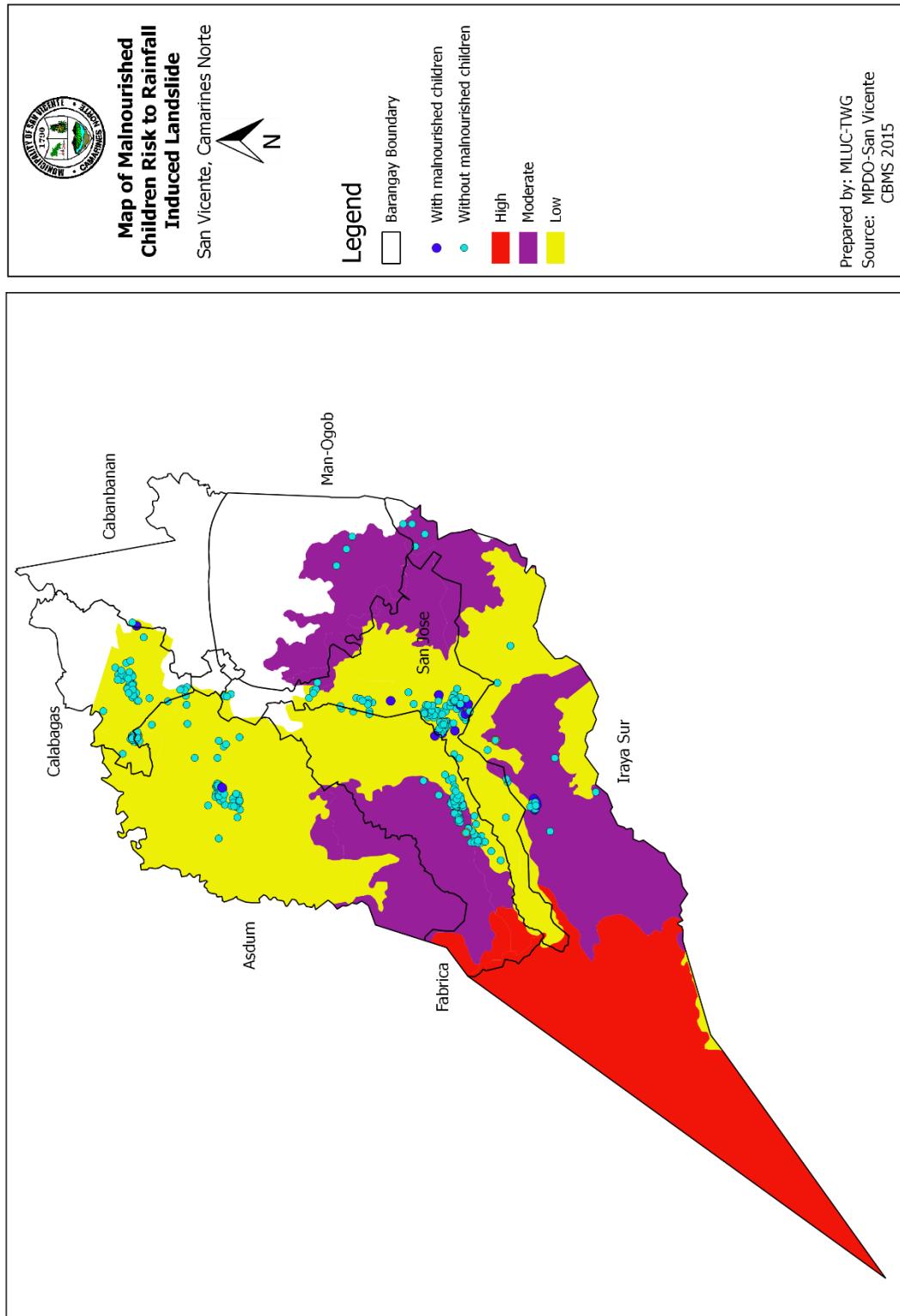
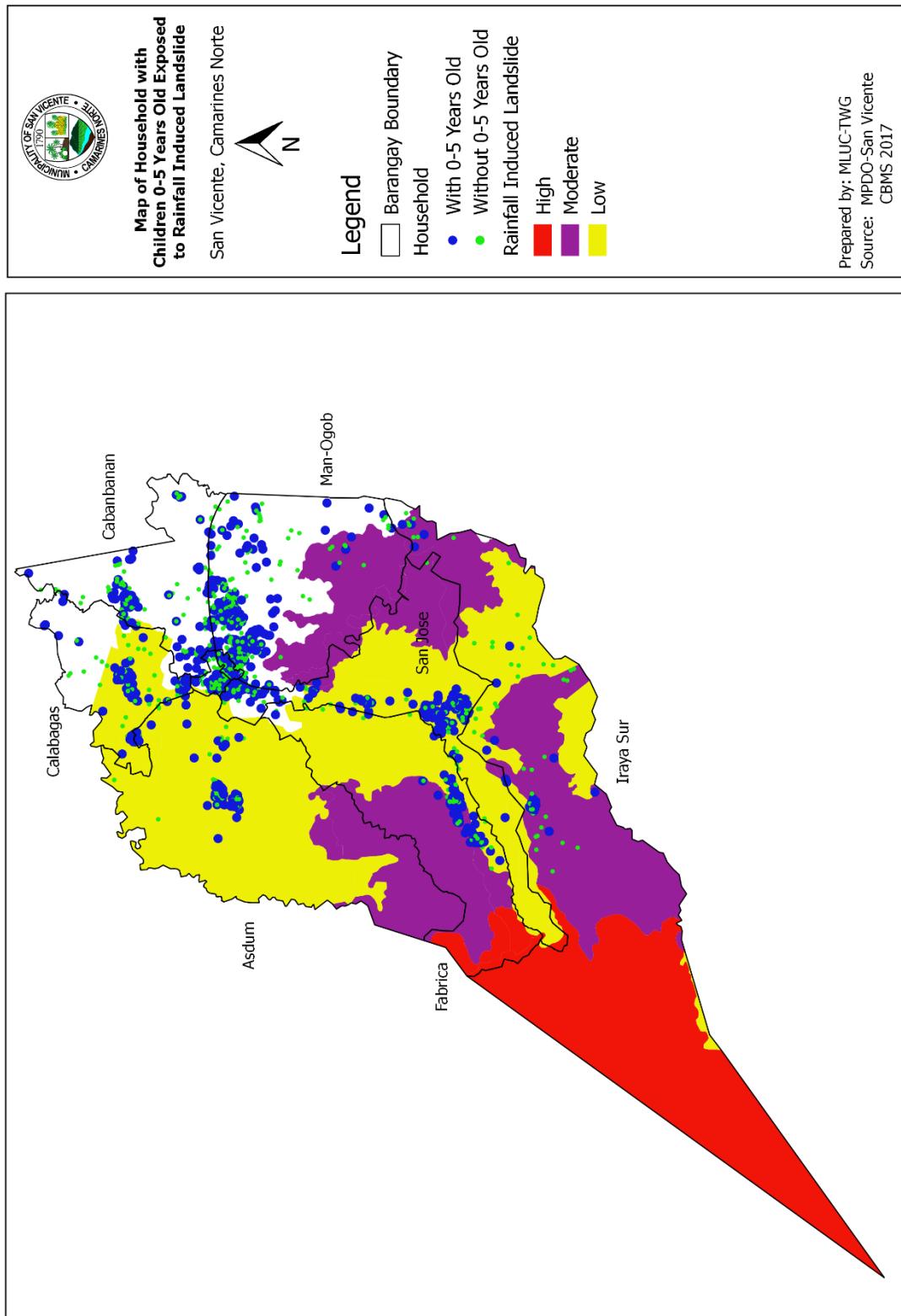


Figure 33

**Map of 0-5 Years Old Exposed to Rainfall Induced Landslide
San Vicente, Camarines Norte**



A total of 1,005 school children or 46.66% of the 6-15 Years Old are exposed to Rainfall Induced Landslide. 227 or 22.59% of the total affected population are located in moderate susceptibility areas 121 of which are female and 106 are male. 778 or 77.41% of the total affected population are located in low susceptible areas and 383 of which are female and 395 are male (Table 55).

Table 55

**Number of 6-15 Years Old Exposed to Rainfall Induced Landslide
By Susceptibility, By Barangay
San Vicente, Camarines Norte**

BARANGAY	NUMBER OF POPULATION 6-15 YEARS OLD			SUSCEPTIBILITY									Total Affected Pop'n	
				HIGH			MODERATE			LOW				
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total		
Asdum	58	58	116	-	-	-	-	-	-	55	56	111	111	
Cabanbanan	109	119	228	-	-	-	-	-	-	1	1	2	2	
Calabagas	109	107	216	-	-	-	-	-	-	91	100	191	191	
Fabrica	113	134	247	-	-	-	66	82	148	43	50	93	241	
Iraya Sur	38	29	67	-	-	-	36	26	62	-	-	-	62	
Man-Ogob	284	294	578	-	-	-	2	9	11	2	1	3	14	
Silangan	71	43	114	-	-	-	-	-	-	-	-	-	-	
Kanluran	67	60	127	-	-	-	-	-	-	2	4	6	6	
San Jose	241	220	461	-	-	-	2	4	6	201	171	372	378	
TOTAL	1,090	1,064	2,154	-	-	-	106	121	227	395	383	778	1,005	

There are 85 persons exposed to Rainfall Induced Landslide, 60 of them or 70.59% are in the moderate susceptibility areas of Barangay Silangan (20), Man-Ogob (15) and 1 each for Barangay Calabagas and Iraya Sur. 25 persons are affected in low susceptibility areas and 15 of them are located in Barangay San Jose (Table 56).

Table 56

**Number of Persons With Disabilities Exposed to Rainfall Induced Landslide
By Susceptibility, By Barangay
San Vicente, Camarines Norte**

BARANGAY	TOTAL POP'N	SUSCEPTIBILITY										TOTAL AFFECTED POP'N	
		HIGH			MODERATE			LOW					
		Male	Female	Total	Male	Female	Total	Male	Female	Total			
Asdum	548	-	-	-	-	-	-	1	4	5	5	5	
Cabanbanan	983	-	-	-	4	4	8	-	-	-	-	8	
Calabagas	942	-	-	-	1	-	1	3	1	4	4	5	
Fabrica	989	-	-	-	3	3	6	1	2	3	9	9	
Iraya Sur	328	-	-	-	1	-	1	3	-	-	3	4	
Man-Ogob	2,585	-	-	-	7	8	15	-	-	-	-	15	
Silangan	614	-	-	-	14	6	20	-	-	-	-	20	
Kanluran	676	-	-	-	2	5	7	-	-	-	-	7	
San Jose	1,825	-	-	-	2	-	2	9	6	15	17	17	
TOTAL	8,942	-	-	-	34	26	60	16	9	25	85		

Source: CBMS 2015

Figure 34
Map of 6-15 Years Old Exposed to Rainfall Induced Landslide
San Vicente, Camarines Norte

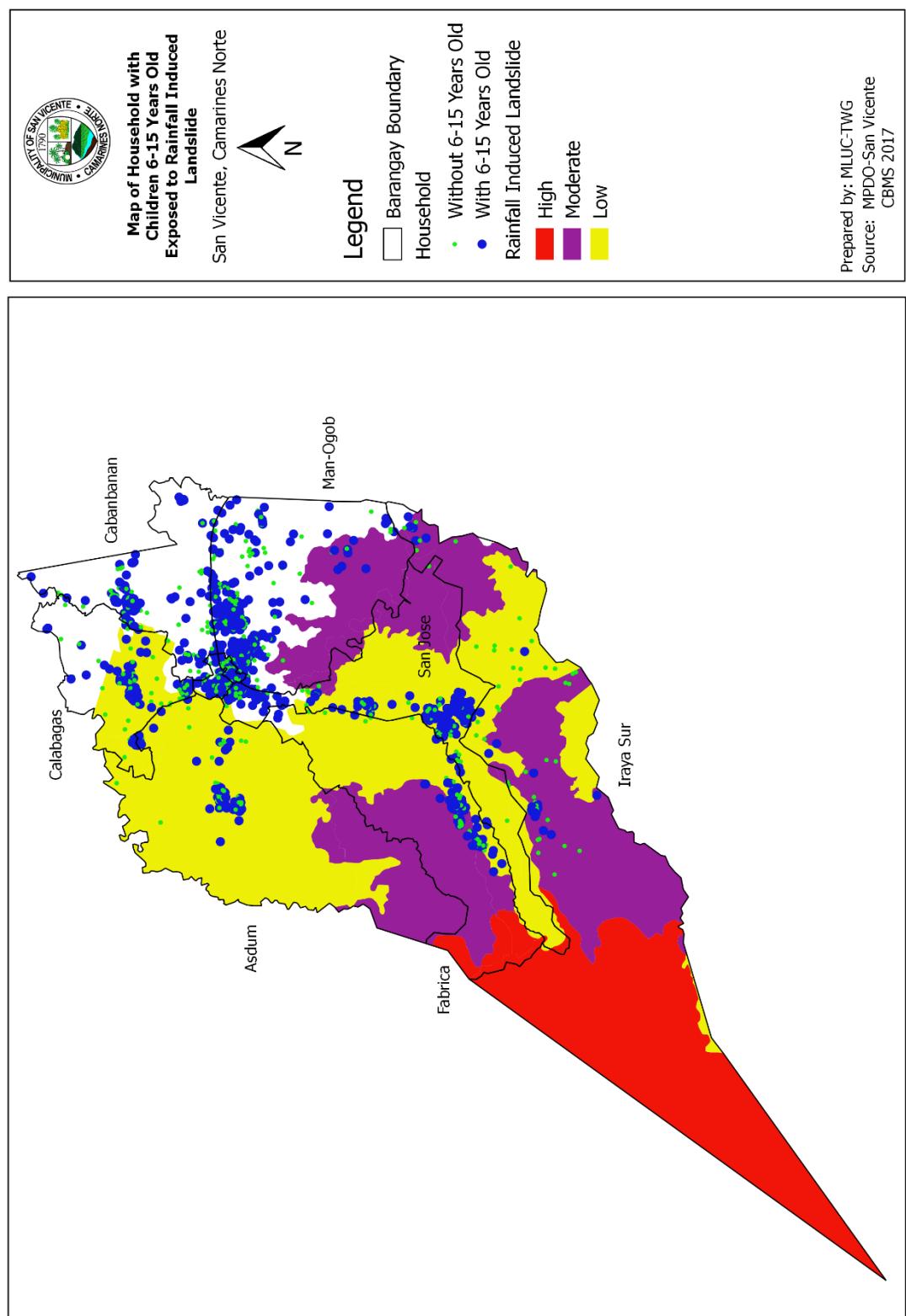
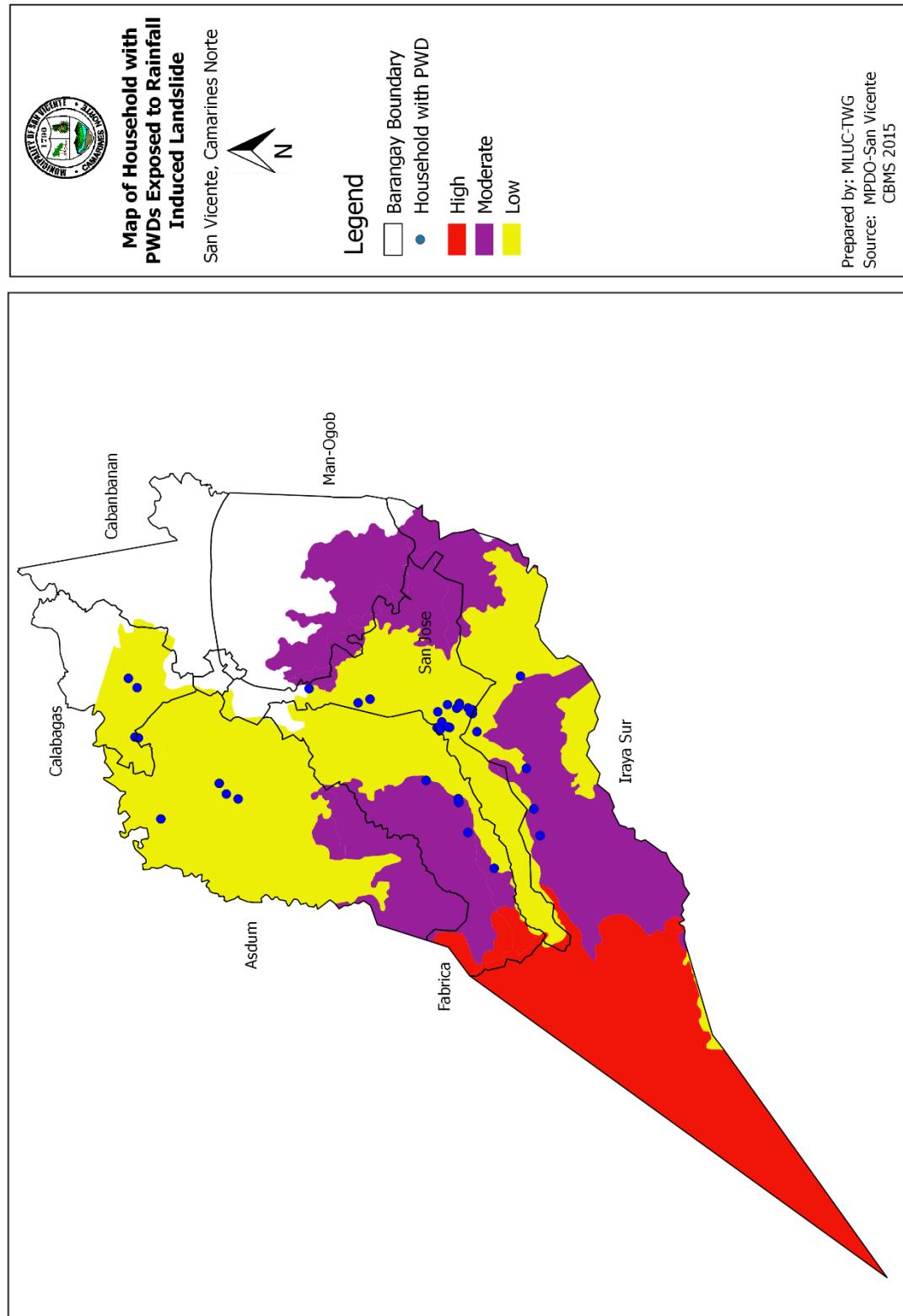


Figure 35

**Map of Persons With Disabilities Exposed to Rainfall Induced Landslide
San Vicente, Camarines Norte**



Of the total 4,541 households in San Vicente, 2,139 or 47% are considered poor. Of these poor households, 606 or 28% are affected by Rainfall Induced Landslide and 141 households are located in moderate susceptible areas in Barangays Fabrica (84), Iraya Sur (49), Man-Ogob (5) and San Jose (3). 465 households are located in low susceptible areas in the Barangays of San Jose, Calabagas, Asdum, Fabrica, Iraya Sur and Man-Ogob (Table 57).

Table 57
Number of Households with Income Below Poverty Exposed to Rainfall Induced Landslide By Susceptibility, By Barangay San Vicente, Camarines Norte

BARANGAY	NO. OF HH	SUSCEPTIBILITY												Total Affected HH	
		Affected HH	HIGH Population			Affected HH	MODERATE Population			Affected HH	LOW Population				
			Population		Total		Population		Total		Population		Total		
			Male	Female	Total		Male	Female	Total		Male	Female	Total		
Asdum	114	-	-	-	-	-	-	-	-	87	197	227	424	87	
Cabanbanan	216	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calabagas	204	-	-	-	-	-	-	-	-	109	286	274	560	109	
Fabrica	211	-	-	-	-	84	191	225	416	60	136	150	286	144	
Iraya Sur	88	-	-	-	-	49	119	102	221	8	15	10	25	57	
Man-Ogob	593	-	-	-	-	5	8	16	24	1	5	3	8	6	
Silangan	155	-	-	-	-	-	-	-	-	-	-	-	-	-	
Kanluran	171	-	-	-	-	-	-	-	-	-	-	-	-	-	
San Jose	387	-	-	-	-	3	8	5	13	200	532	516	1,048	203	
TOTAL	2,139	-	-	-	-	141	326	348	674	465	1,171	1,180	2,351	606	

Source: CBMS 2015

There are 9 informal settlers exposed to Rainfall Induced Landslide located in moderate susceptible areas in the Barangays of Fabrica (1) and Iraya Sur (1). 7 are located in low susceptible areas in Barangays San Jose (5), Asdum (1) and Iraya Sur (1) (Table 58).

Table 58
Number of Informal Settlers Exposed to Rainfall Induced Landslide By Susceptibility, By Barangay San Vicente, Camarines Norte

BARANGAY	TOTAL HOUSE-HOLD	SUSCEPTIBILITY												NO. OF AFFECTED HH	
		Affected HH	HIGH Population			Affected HH	MODERATE Population			Affected HH	LOW Population				
			Male	Female	Total		Male	Female	Total		Male	Female	Total		
Asdum	114	-	-	-	-	-	-	-	-	1	3	2	5	1	
Cabanbanan	216	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calabagas	204	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fabrica	211	-	-	-	-	1	2	2	4	-	-	-	-	1	
Iraya Sur	88	-	-	-	-	1	3	-	3	1	1	1	2	2	
Man-Ogob	593	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silangan	614	-	-	-	-	-	-	-	-	-	-	-	-	-	
Kanluran	676	-	-	-	-	-	-	-	-	-	-	-	-	-	
San Jose	1,825	-	-	-	-	-	-	-	-	5	16	11	27	5	
TOTAL	4,541	-	-	-	-	2	5	2	7	7	20	14	34	9	

Source: CBMS 2015

Figure 36

**Map of Households with Income Below Poverty Exposed to Rainfall Induced Landslide
San Vicente, Camarines Norte**

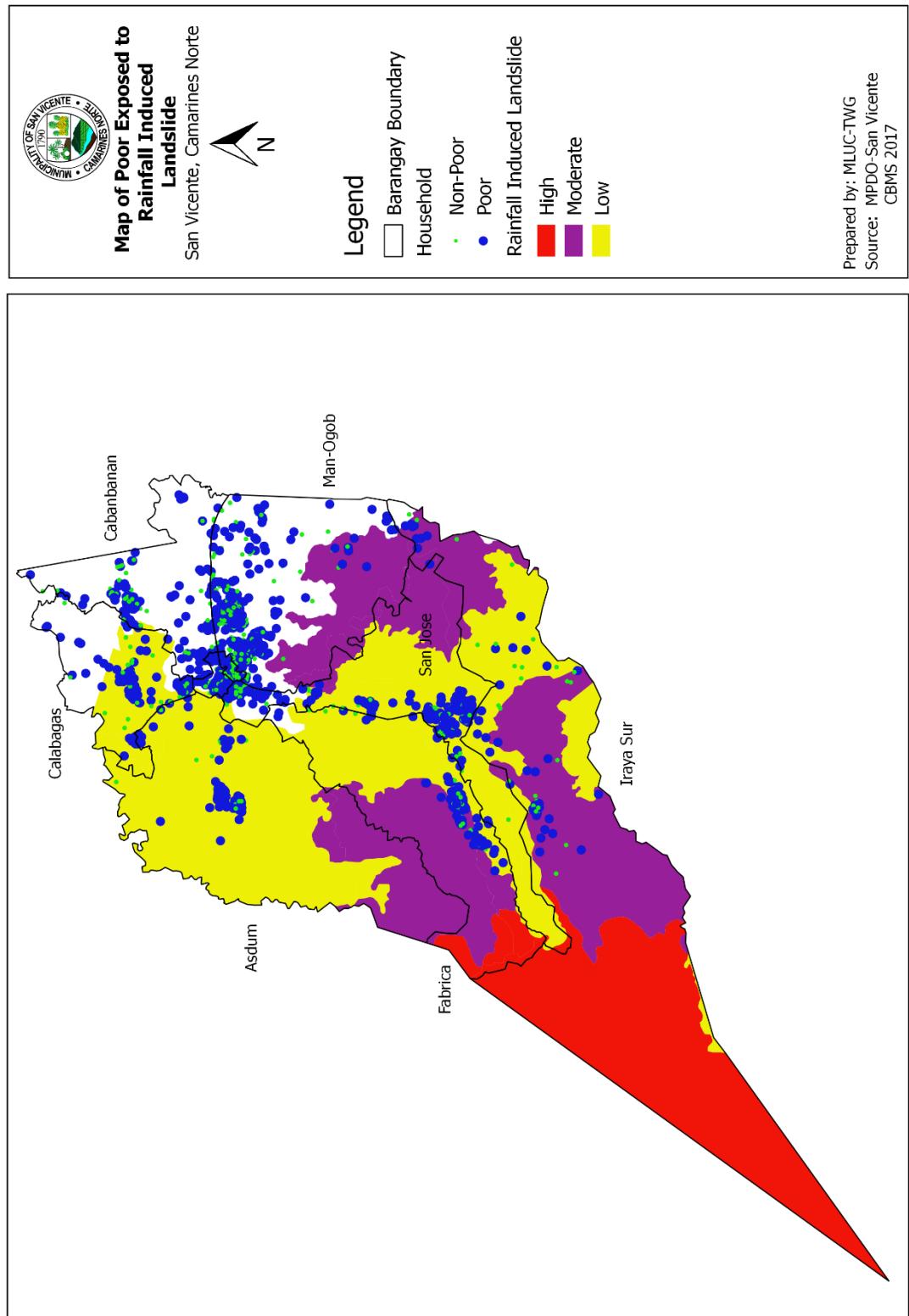
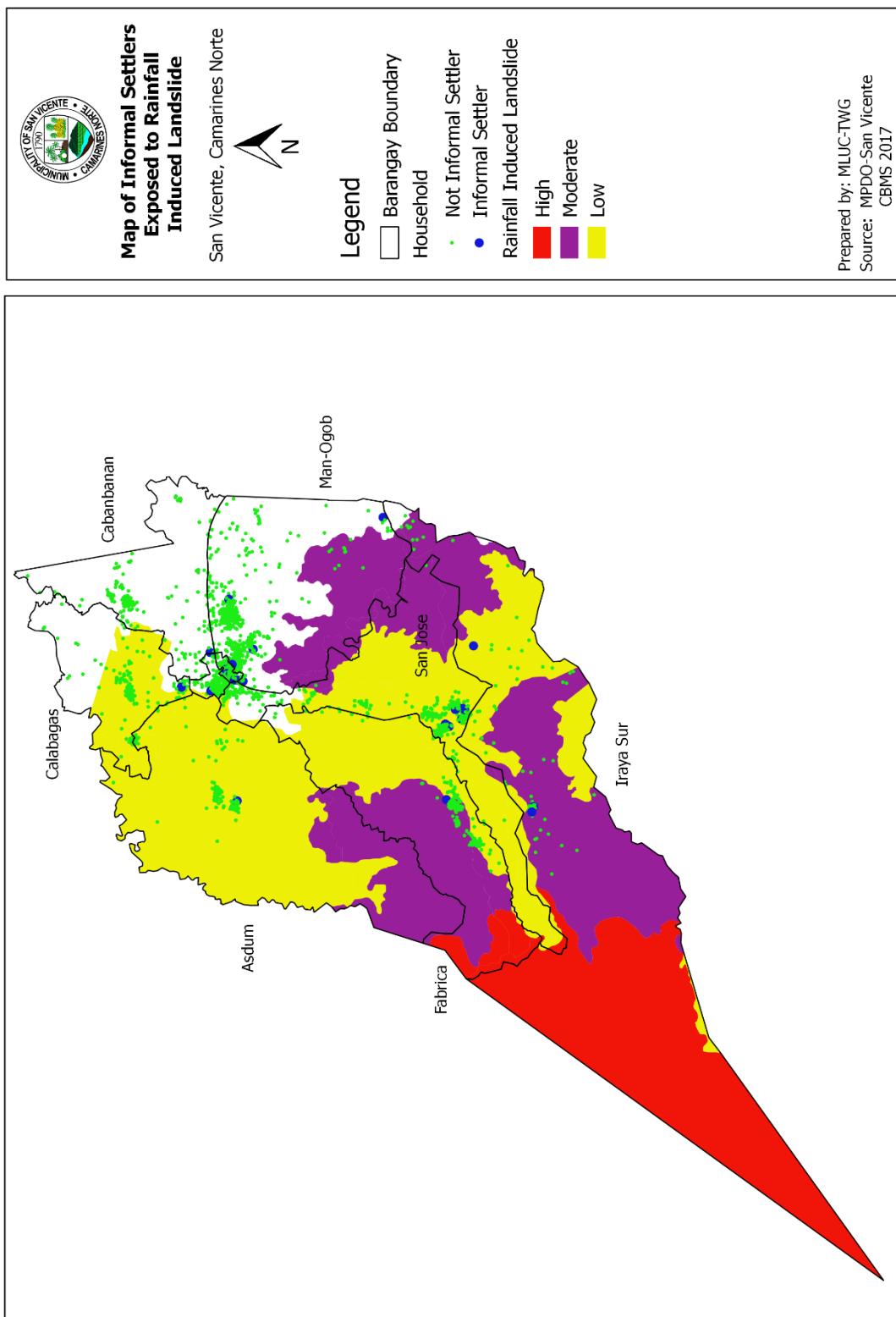


Figure 37
Map of Informal Settlers Exposed to Rainfall Induced Landslide
San Vicente, Camarines Norte



Affected Senior Citizen to Rainfall Induced Landslide is accounted to 235 persons, 41 or 17% of which are located in the moderate susceptible areas and 194 or 83% are located in low susceptible areas in the Barangays of San Jose (61), Cabanbanan (49), Calabagas (46), Asdum (20), Fabrica (110, Iraya Sur (5) and Kanluran (2) (Table 59).

Table 59
Number of 65 Years Old and Above Exposed to
Rainfall Induced Landslide By Susceptibility, By Barangay
San Vicente, Camarines Norte

BARANGAY	SUSCEPTIBILITY										Total Affected Pop	
	HIGH			MODERATE			LOW					
	Male	Female	Total	Male	Female	Total	Male	Female	Total			
Asdum	-	-	-	-	-	-	8	12	20	20		
Cabanbanan	-	-	-	-	-	-	17	32	49	49		
Calabagas	-	-	-	-	-	-	18	28	46	46		
Fabrica	-	-	-	6	20	26	7	4	11	37		
Iraya Sur	-	-	-	4	5	9	2	3	5	14		
Man-Ogob	-	-	-	1	-	1	-	-	-	1		
Silangan	-	-	-	1	2	3	-	-	-	3		
Kanluran	-	-	-	-	-	-	-	-	2	2		
San Jose	-	-	-	2	-	2	26	35	61	63		
TOTAL	-	-	-	14	27	41	78	116	194	235		

Source: CBMS 2015

Figure 38

**Map of 65 Years Old and Above Exposed to Rainfall Induced Landslide
San Vicente, Camarines Norte**

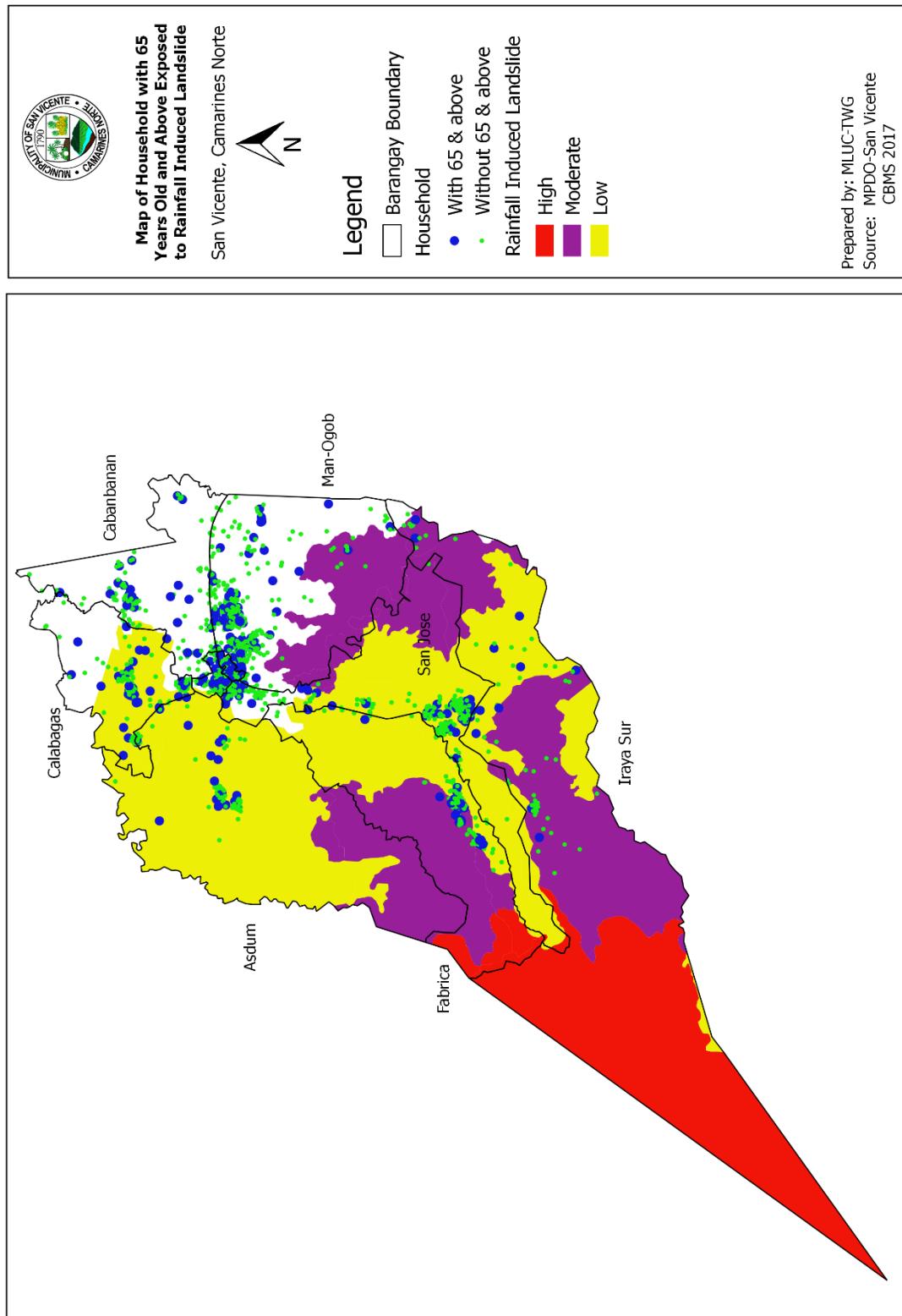


Table 60
Population Exposure Database and Risk to
Rainfall Induced Landslide By Susceptibility, By Barangay
San Vicente, Camarines Norte

PULATION EXPOSURE DATABASE AND RISKS BY BARANGAY AND BY TYPE OF SUSCEPTIBILITY										
Barangay	Landslide Susceptibility	HAZARD			EXPOSURE					
		Likelihood of Occurrence Score	Magnitude Score	Barangay Population	Number of HH	Affected HH	Affected Population	Exposure Percentage	Exposure Score	
	Low, Moderate, High	Thru Anecdotal Account (Score range 1-6)	Magnitude scores are relative to the magnitude of the highest level of hazard category (see Scoring tab)	Total Population of the barangay (PSA, CBMS)	Number of HH of the barangay (PSA, CBMS)	Fr-CBMS corresponds to the No. of HH Heads	from CBMS corresponds to the Family Members	Affected Population divided by Total Population of the barangay multiply by 100		Exposure Score
ASDUM	Low	3	0.33	548	114	87	424	77.37%	4	
	Moderate	4	0.66	548	114	0	0	0.00%	0	
	High	5	1	548	114	0	0	0.00%	0	
CABANBANAN	Low	3	0.33	983	216	0	0	0.00%	0	
	Moderate	4	0.66	983	216	0	0	0.00%	0	
	High	5	1	983	216	0	0	0.00%	0	
CALABAGAS	Low	3	0.33	942	204	109	560	59.45%	4	
	Moderate	4	0.66	942	204	0	0	0.00%	0	
	High	5	1	942	204	0	0	0.00%	0	
FABRICA	Low	3	0.33	989	211	60	286	28.92%	4	
	Moderate	4	0.66	989	211	84	416	42.06%	4	
	High	5	1	989	211	0	0	0.00%	0	
IRAYA SUR	Low	3	0.33	328	88	8	25	7.62%	2	
	Moderate	4	0.66	328	88	49	221	67.38%	4	
	High	5	1	328	88	0	0	0.00%	0	
MAN-OGOB	Low	3	0.33	2585	593	1	8	0.31%	1	
	Moderate	4	0.66	2585	593	5	24	0.93%	1	
	High	5	1	2585	593	0	0	0.00%	0	
SILANGAN	Low	3	0.33	614	155	0	0	0.00%	0	
	Moderate	4	0.66	614	155	0	0	0.00%	0	
	High	5	1	614	155	0	0	0.00%	0	
KANLURAN	Low	3	0.33	171	676	0	0	0.00%	0	
	Moderate	4	0.66	171	676	0	0	0.00%	0	
	High	5	1	171	676	0	0	0.00%	0	
SAN JOSE	Low	3	0.33	1825	387	200	1048	57.42%	4	
	Moderate	4	0.66	1825	387	3	13	0.71%	1	
	High	5	1	1825	387	0	0	0.00%	0	

PULATION EXPOSURE DATABASE AND		SENSITIVITY																			
Barangay	Landslide Susceptibility	Percentage of informal Settlers (IS)		Percentage living in dwelling units made from light materials or salvagable materials		Percentage of young and old dependents		Percentage of persons with disabilities		Percentage below the Poverty Threshold		Percentage Malnourished Individuals		Average Sensitivity Score							
		No. of exposed IS	No. of HH affected by IS	Sensitivity to Score	No. of exposed HH living in light materials	No. of accounted HH divided by affected HH	Sensitivity to Score	No. of exposed young and old dependents	No. of account of individual divided by affected population	Sensitivity to Score	No. of exposed PWDs	No. of account of individual divided by affected population	Sensitivity to Score	No. of exposed HH living below Poverty Threshold	No. of account of individuals divided by affected HH	Sensitivity to Score	No. of exposed malnourished individuals	No. of account of individuals divided by affected population	Sensitivity to Score	Pounded up average sensitivity score	
ASDUM	Low, Moderate, High	Number of exposed IS	No. of HH affected by IS	Sensitivity to Score	No. of exposed HH living in light materials	No. of accounted HH divided by affected HH	Sensitivity to Score	No. of exposed young and old dependents	No. of account of individual divided by affected population	Sensitivity to Score	No. of exposed PWDs	No. of account of individual divided by affected population	Sensitivity to Score	No. of exposed HH living below Poverty Threshold	No. of account of individuals divided by affected HH	Sensitivity to Score	No. of exposed malnourished individuals	No. of account of individuals divided by affected population	Sensitivity to Score	Pounded up average sensitivity score	
	Low	3	3.45%	1	1	1.15%	1	228	53.77%	4	5	1.18%	1	87	100.00%	4	1	0.24%	1	2	
	Moderate	4	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	#DIV/0!	
CABANBANAN	High	3	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	#DIV/0!	
	Low	2	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	61	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	1	#DIV/0!	#DIV/0!	#DIV/0!	
	Moderate	6	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	8	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	#DIV/0!	
CALABAGAS	High	8	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	355	63.39%	4	4	0.71%	1	109	100.00%	4	1	0.18%	1	2	
	Low	4	3.67%	1	0	0.00%	1	355	63.39%	4	4	0.71%	1	109	100.00%	4	0	0.00%	0	0	
	Moderate	1	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	1	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	#DIV/0!	
FABRICA	High	34	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	#DIV/0!	
	Low	4	6.67%	2	1	1.67%	1	161	56.29%	4	3	1.05%	1	60	100.00%	4	1	0.35%	1	3	
	Moderate	25	29.76%	4	1	1.19%	1	258	62.02%	4	6	1.44%	1	84	100.00%	4	0	0.00%	1	3	
IRAYA SUR	High	4	50.00%	4	0	0.00%	1	10	40.00%	4	3	12.00%	3	8	100.00%	4	14	56.00%	4	4	
	Low	4	51.02%	4	0	0.00%	1	123	55.66%	4	1	0.45%	1	49	100.00%	4	4	1.81%	1	3	
	Moderate	25	51.02%	4	0	0.00%	1	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	#DIV/0!	
MAN-OGOB	High	5	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	#DIV/0!	
	Low	4	400.00%	4	0	0.00%	1	3	37.50%	4	0	0.00%	1	1	100.00%	4	0	0.00%	1	3	
	Moderate	25	500.00%	4	0	0.00%	1	16	66.67%	4	15	62.50%	4	5	100.00%	4	0	0.00%	1	3	
SILANGAN	High	5	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	#DIV/0!	
	Low	4	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	3	#DIV/0!	#DIV/0!	20	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	#DIV/0!	
	Moderate	25	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	7	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	#DIV/0!	
KANLURAN	High	5	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	#DIV/0!	
	Low	4	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	8	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	#DIV/0!	
	Moderate	25	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	7	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	#DIV/0!	
SAN JOSE	High	5	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	15	1.43%	1	200	100.00%	4	0	0.00%	1	2	
	Low	4	2.00%	1	5	2.50%	1	631	60.21%	4	2	15.38%	3	3	100.00%	4	0	0.00%	1	3	
	Moderate	25	833.33%	4	0	0.00%	1	10	76.92%	4	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	0	#DIV/0!	#DIV/0!	#DIV/0!	

Barangay	ADAPTIVE CAPACITY													VULNERABILITY			Severity of Consequence Score	Risk Score	Risk Category
	Landslide Susceptibility	Access to infrastructure-related mitigation measures		Access to financial assistance		Capacity and willingness to retrofit or relocate		Access to information		Government investments		Average Adaptive Capacity Score	Hazard Exposure Score	Vulnerability Index	Vulnerability Score				
	Low, Moderate, High	Proportion of HH with access to measures	Adaptive Capacity Score	Proportion of HH with access to capacity building	Adaptive Capacity Score	Proportion of HH with access to information	Adaptive Capacity Score	Capacity of government to make investments in CCA-DRR	Adaptive Capacity Score	Rounded down average adaptive capacity score	Magnitude Score multiplied to Exposure Score	Sensitivity Score divided by Adaptive Capacity Score	Vulnerability Score based on the calculated Vulnerability Index (see Scoring tab)	Penalty applied to the product of Hazard Exposure Score and Vulnerability Score	Severity of Consequence multiplied by likelihood of Occurrence	see Scoring Tab	3.00	low	
ASDUM	Low	12.50%	3	15.00%	3	14.00%	3	22.00%	4	1	2	1.32	1	0.50	1.00				
	Moderate	20.00%	4	12.00%	3	13.00%	3	15.00%	3	2	3	0	#DIV/0!	#DIV/0!	#DIV/0!				
	High	1.71%	1	11.00%	3	12.50%	3	23.00%	4	3	2	0	#DIV/0!	#DIV/0!	#DIV/0!				
CABANBANAN	Low	11.11%	3	10.00%	2	15.00%	3	18.00%	3	4	3	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	3.00	low	
	Moderate	1.27%	1	7.00%	2	11.00%	3	19.00%	3	3	2	0	#DIV/0!	#DIV/0!	#DIV/0!				
	High	8.42%	2	89.00%	4	10.00%	2	21.00%	4	4	3	0	#DIV/0!	#DIV/0!	#DIV/0!				
CALABAGAS	Low	4.30%	1	5.00%	1	25.00%	4	22.00%	4	moderate	2	2	1.32	1	0.50	1.00	3.00	low	
	Moderate	1.61%	1	62.00%	4	30.00%	4	23.00%	4	low	1	2	0	#DIV/0!	#DIV/0!	#DIV/0!			
	High	4.83%	1	3.00%	1	50.00%	4	24.00%	4	high	3	2	0	#DIV/0!	#DIV/0!	#DIV/0!			
FABRICA	Low	0.88%	1	25.00%	4	48.00%	4	24.00%	4	low	1	2	1.32	1.5	0.75	1.00	3.00	low	
	Moderate	8.49%	2	4.00%	1	54.00%	4	25.00%	4	low	1	2	2.64	1.5	0.75	2.00			
	High	3.53%	1	5.00%	1	81.00%	4	20.00%	4	low	1	2	0	#DIV/0!	#DIV/0!	#DIV/0!			
IRAYA SUR	Low	0.88%	1	25.00%	4	48.00%	4	24.00%	4	low	1	2	0.66	2	0.75	1.00	3.00	low	
	Moderate	8.49%	2	4.00%	1	54.00%	4	25.00%	4	low	1	2	2.64	1.5	0.75	2.00			
	High	3.53%	1	5.00%	1	81.00%	4	20.00%	4	low	1	2	0	#DIV/0!	#DIV/0!	#DIV/0!			
MAN-OGOB	Low	0.88%	1	25.00%	4	48.00%	4	24.00%	4	low	1	2	0.66	1.5	0.75	1.00	4.00	low	
	Moderate	8.49%	2	4.00%	1	54.00%	4	25.00%	4	low	1	2	0	#DIV/0!	#DIV/0!	#DIV/0!			
	High	3.53%	1	5.00%	1	81.00%	4	20.00%	4	low	1	2	0	#DIV/0!	#DIV/0!	#DIV/0!			
SILANGAN	Low	0.88%	1	25.00%	4	48.00%	4	24.00%	4	low	1	2	0	#DIV/0!	#DIV/0!	#DIV/0!	3.00	low	
	Moderate	8.49%	2	4.00%	1	54.00%	4	25.00%	4	low	1	2	0	#DIV/0!	#DIV/0!	#DIV/0!			
	High	3.53%	1	5.00%	1	81.00%	4	20.00%	4	low	1	2	0	#DIV/0!	#DIV/0!	#DIV/0!			
KANLURAN	Low	0.88%	1	25.00%	4	48.00%	4	24.00%	4	low	1	2	0	#DIV/0!	#DIV/0!	#DIV/0!	3.00	low	
	Moderate	8.49%	2	4.00%	1	54.00%	4	25.00%	4	low	1	2	0	#DIV/0!	#DIV/0!	#DIV/0!			
	High	3.53%	1	5.00%	1	81.00%	4	20.00%	4	low	1	2	0	#DIV/0!	#DIV/0!	#DIV/0!			
SAN JOSE	Low	0.88%	1	25.00%	4	48.00%	4	24.00%	4	low	1	2	1.32	1	0.50	1.00	3.00	low	
	Moderate	8.49%	2	4.00%	1	54.00%	4	25.00%	4	low	1	2	0.66	1.5	0.75	1.00			
	High	3.53%	1	5.00%	1	81.00%	4	20.00%	4	low	1	2	0	#DIV/0!	#DIV/0!	#DIV/0!			

Landslide are influenced by human activity / mining and construction of buildings, highways and natural factors (geology, precipitation and topography). It occurs when masses of rock, earth or debris move down a slope. Therefore, gravity acting in an overly steep slope is the primary cause of a landslide and its activated by rain, storms, earthquakes and various human activities.

In summary, all barangays in the Municipality of San Vicente are not susceptible to high risk in terms of Rainfall Induced Landslide. While Barangays Fabrica and Iraya Sur has the moderate risk and Barangays Calabagas, Man-Ogob and San Jose has low risk (Table 60).