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Chapter 1. HISTORICAL BACKGROUND

Legendarily, the word Tagaytay came from “TAGA” meaning to cut and “ITAY” which means father. A father and son were said to be on a wild boar chase when the animal they were pursuing suddenly turned and attacked them. Fearing for his father’s safety as the boar violently charged the old man, the son cried out “TAGA, ITAY!” which means “cut him down, father!” The son’s exhortation and shouts reverberated in the valleys of the ridge and were heard by the residents, wood gatherers, hunters and kaingeros in the forests. Thus, the shout and the words “Taga, Itay” became the subject of conversation among the people in the countryside for several days. In time, the place from where the shouts came began to be known as the beautiful southern city of Tagaytay.

During the Philippine Revolution of 1896, Tagaytay became a place of refuge and hideaway for revolutionaries from the nearby provinces of Batangas and Laguna and other neighboring towns of Masilao (now Amadeo), Malabon Grande (now Gen. Trias), Silang, Dasmariñas, Mendez and Indang. Its central location amidst these towns and provinces, the wild preponderance of forests on its ridges and the vast undulating topography of its lands characterized by wide stretches of cogon offered a ready sanctuary and haven from pursuit of the Katipuneros. As a passageway for the revolutionary activities in the said provinces, the natives and revolutionaries described movement to and from the towns via Tagaytay with the word “MANANAGAYTAY,” which means traversing the ridges of Tagaytay.

At the outbreak of the Second World War, the 11th Airborne Division of Lieutenants General William Krugers 8th Army airdropped military supplies and personnel on the Tagaytay ridge, prior to the Liberation of Manila from the Japanese on February 3, 1945. To commemorate this event, the city officials, in coordination with the Philippine Historical Institute installed a marker at the junction of the Silang-Canlubang- Nasugbu roads.

On June 21, 1938, Tagaytay became a chartered city with the passage and signing by the late President Manuel L. Quezon of Commonwealth Act No. 338, a bill authored by Rep. Justiniano S. Montano of Cavite. Among the city’s past mayors were Arsenio Natividad, Mariano Bondoc, Melchor Benitez, Miguel Taña, Isaac Tolentino, Hilarion Maglabe, Benjamin Erni, Francis Tolentino and Abraham N. Tolentino. The incumbent City Mayor is Hon. Agnes D. Tolentino. Today, the City of Tagaytay is identified as one of the priority areas for tourism development of the Department of Tourism. Likewise, the city has been identified in the CALABARZON as a tourist center.

Chapter 2. Geophysical Characteristics

2.1 Geographical Location

The City of Tagaytay lies within 120° 56' latitude and 14° 16' longitude and overlooks Manila Bay on the north, Taal Volcano and Taal Lake on the south and Laguna de Bay on the east. Tagaytay City has a total land area of 6,500 hectares or 65 square kilometers; politically subdivided into 34 barangays and composed of 213 zones/puroks.

It is approximately 56 kilometers South of Metro Manila. It is linked by the National Highway to the Metropolitan Manila Area and to the Provinces of Batangas and Laguna. It is also connected by roads to the adjoining Municipalities of Amadeo, Mendez, Indang, Silang and Alfonso in Cavite towards the Northwest, to the Cities of Calamba and Sta. Rosa in Laguna in the Northeast and to the Town of Talisay in Batangas on the South.

2.2 Political Subdivision

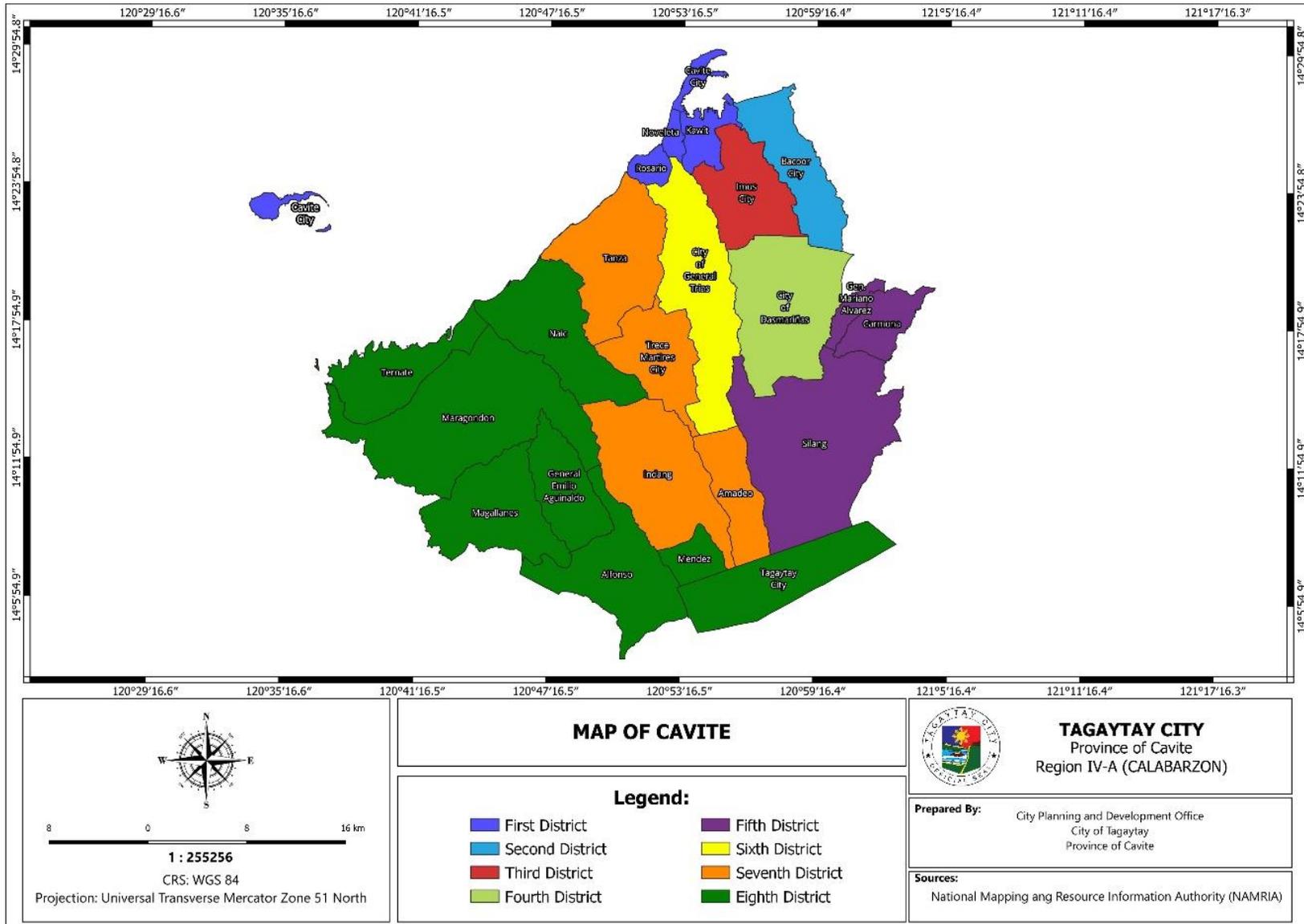
The city is politically subdivided into thirty-four (34) barangays, twenty-nine (29) of which are urban and the rest are rural.

Table 1. Political Subdivision

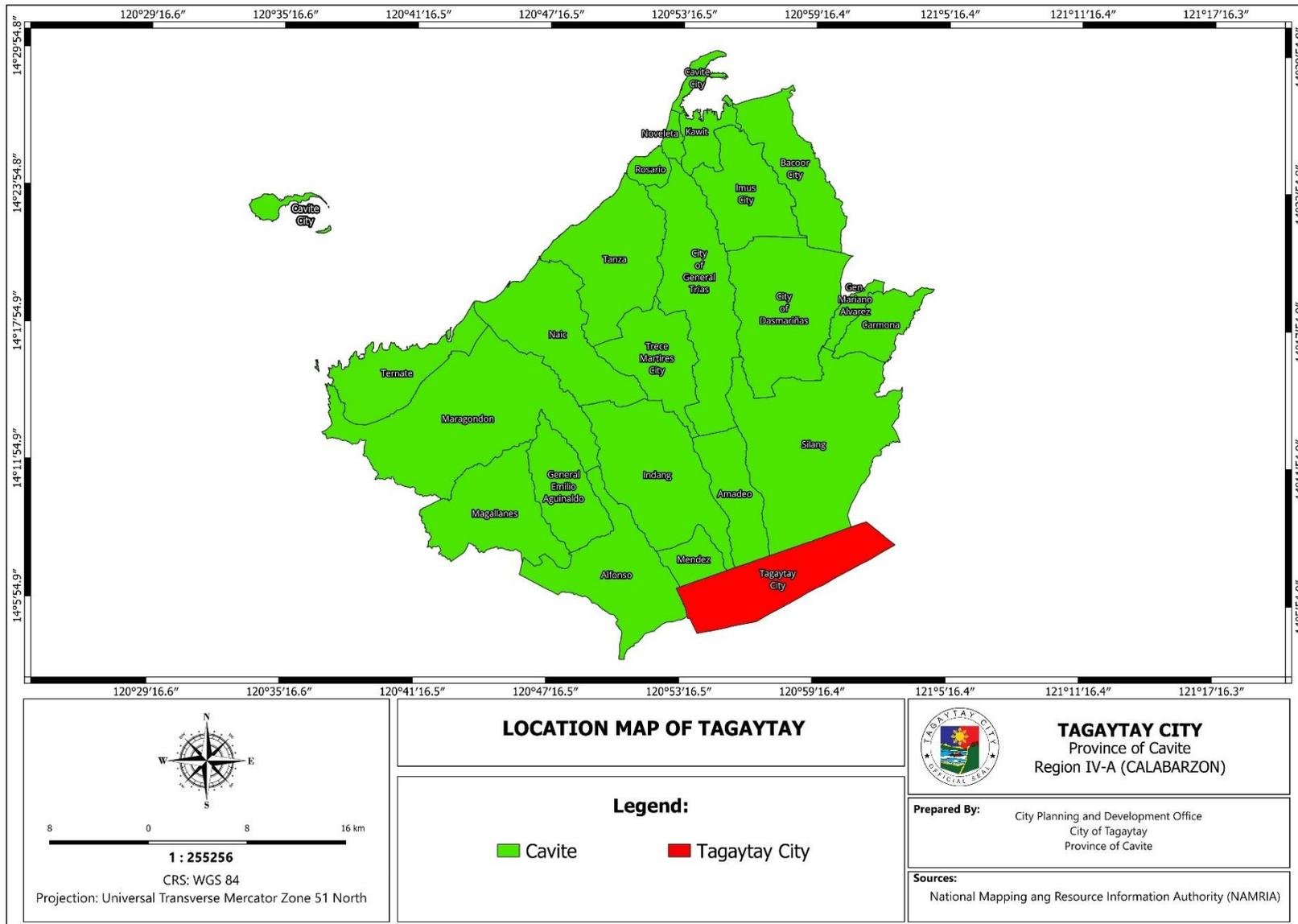
<i>BARANGAY</i>	<i>AREA (ha)</i>	<i>BARANGAY</i>	<i>AREA (ha)</i>
<i>Urban</i>		19. Neogan	165.43
1. Asisan	133.43	20. Patutong Malaki South	237.08
2. Calabuso	446.38	21. Patutong Malaki North	258.02
3. Francisco	358	22. San Jose	418.9
4. Guinhawa South	94.11	23. Sungay East	280.08
5. Iruhin Central	253.14	24. Sungay West	202.43
6. Iruhin East	297.29	25. Silang Crossing East	197.23
7. Iruhin West	240.71	26. Silang Crossing West	248.91
8. Kaybagal South	404.16	27. Tolentino East	91.49
9. Kaybagal Central	214.33	28. Tolentino West	164.13
10. Kaybagal North	120.33	29. Zambal	127.89
11. Mag-asawang Ilat	73.11	<i>Rural</i>	
12. Maharlika East	73.82	30. BagongTubig	173.75
13. Maharlika West	194.55	31. Dapdap East	75.09
14. Mendez Crossing West	58.37	32. Dapdap West	148.1
15. Mendez Crossing East	55.4	33. Guinhawa North	78.93
16. Maitim II East	141.31	34. Sambong	301.24
17. Maitim II Central	96.9	TOTAL	6,500
18. Maitim II West	76.29		

SOURCE: Cadastral Map

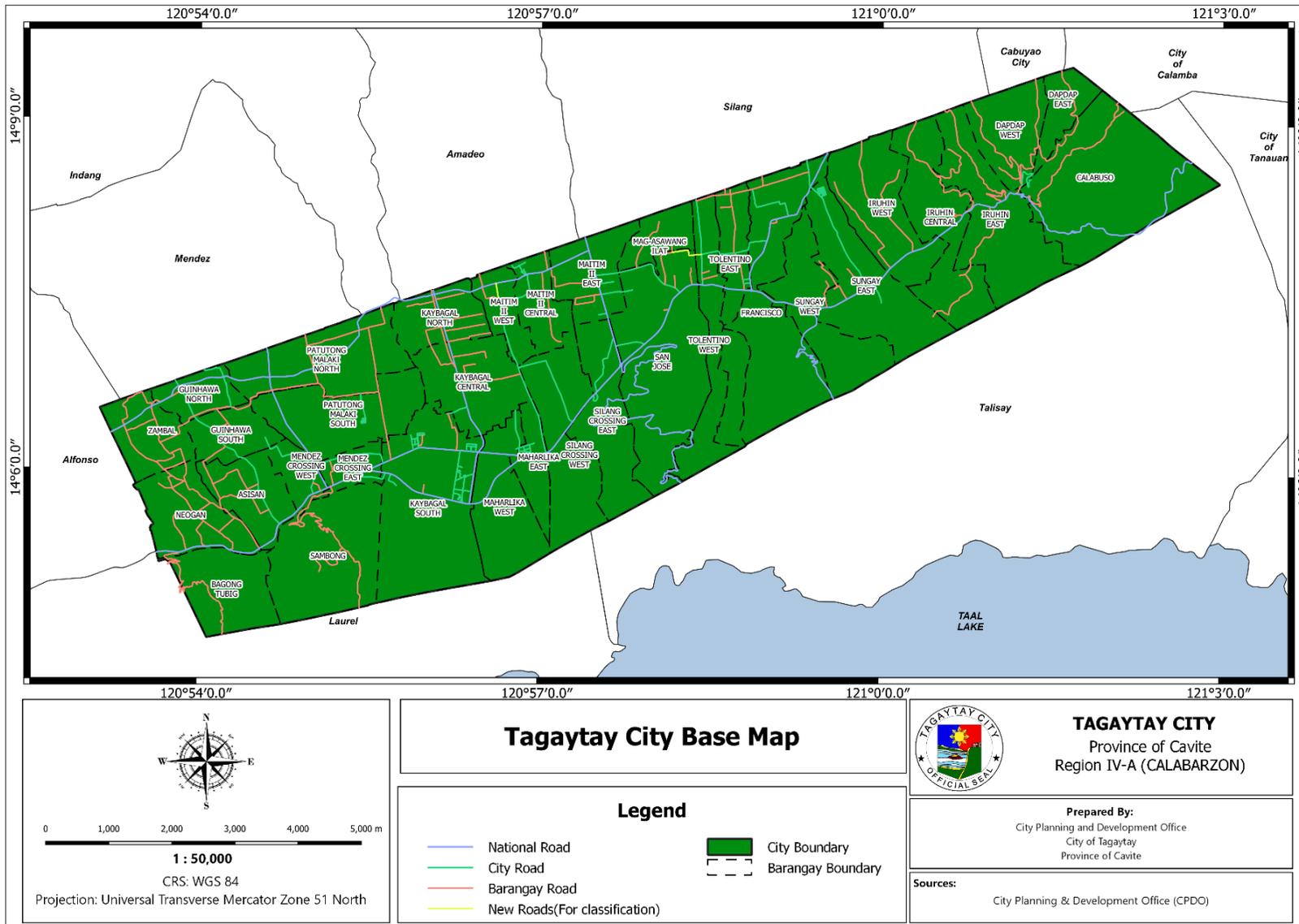
Map 1. Map of Cavite Province



Map 2. Location Map of Tagaytay City



Map 3. Base Map of Tagaytay City



2.3 Topography

Tagaytay City is characterized by mixed topography. The southern and eastern portions are covered by hills and mountains which are generally forests and open grasslands. There are ridge areas with slopes ranging from 10.1 to over 25 percent. On the other hand, the portions adjoining the municipalities of Mendez, Indang, Amadeo and Silang are level to nearby level areas interspersed with very gently sloping surface. The built-up areas including the urban center are situated in these relatively level portions of the city.

2.3.1 Elevation

The City of Tagaytay has an elevation ranging from 94 to 744 meters above sea level. The lowest elevation is found in Brgy. Tolentino East while the highest elevation is the peak of People's Park in the Sky in Brgy. Dapdap West.

2.3.2 Slope

One of the important factors being considered in determining the suitability of lands for urban development as well as the capability of an area for cultivation is the slope. For classification of slopes specified by the Task Force on Human Settlements as part of the Ecological Information Decision Systems (EIDS) used in Human Settlements planning, the different slope categories and its distribution among the lands in Tagaytay are the following:

Table 2. Types of Slopes

AREA (in hectares)	SHARE (%)	TYPE	SLOPE RANGE (%)	CHARACTERISTICS
1023.99	15.75%	A	0-3	Level to nearly level
1736.00	26.71%	B	3-8	Very gently sloping or undulating
1052.13	16.19%	C	8-18	Gently sloping or undulating
1361.97	20.95%	D	18-30	Moderately sloping or rolling
1253.72	19.29%	E	30-50	Strongly sloping or strongly rolling
72.19	1.11%	F	50 above	Strongly hill to mountainous
6,500	100%			Total

SOURCE: Bureau of Soils and Water Management

Levels at moderately sloping areas endowed with good soil characteristics are favorable for cultivation and urban utilization. Strongly sloping to mountainous condition renders the land highly prone to soil erosion and unfavorable for agricultural production and urban development.

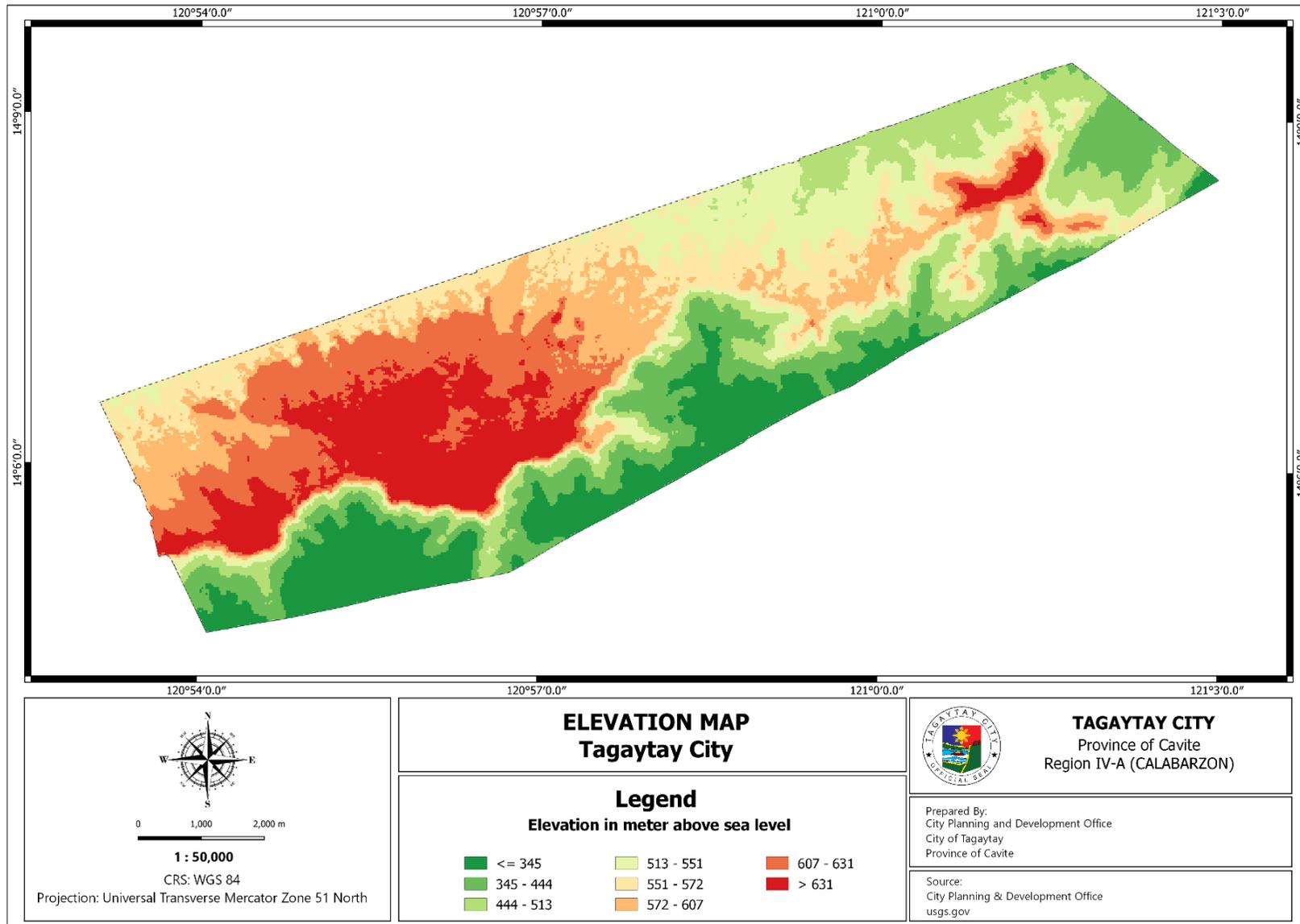
Approximately 2,687.88 hectares of land, which represent 41.35% of the city's total land area, have slopes of above 18.0%. These strongly rolling and mountainous portions are situated along the ridge and on the eastern end of the city. Due to the unsuitability of these mountainous and strongly sloping portions for cultivation and urban use, most of these areas are currently utilized as forests or abandoned as open grasslands.

Areas with Type D slopes (18-30%) cover 1,361.97 hectares of land in portions of Barangays Calabuso, Dapdap, Iruhin, Sungay, Sambong, Kaybagal, San Jose and Silang Crossing. Due to the good soil characteristics in the city, these moderately or rolling areas are planted to diversified crops although there are still vast tracks of open grasslands in Barangays Dapdap and Calabuso.

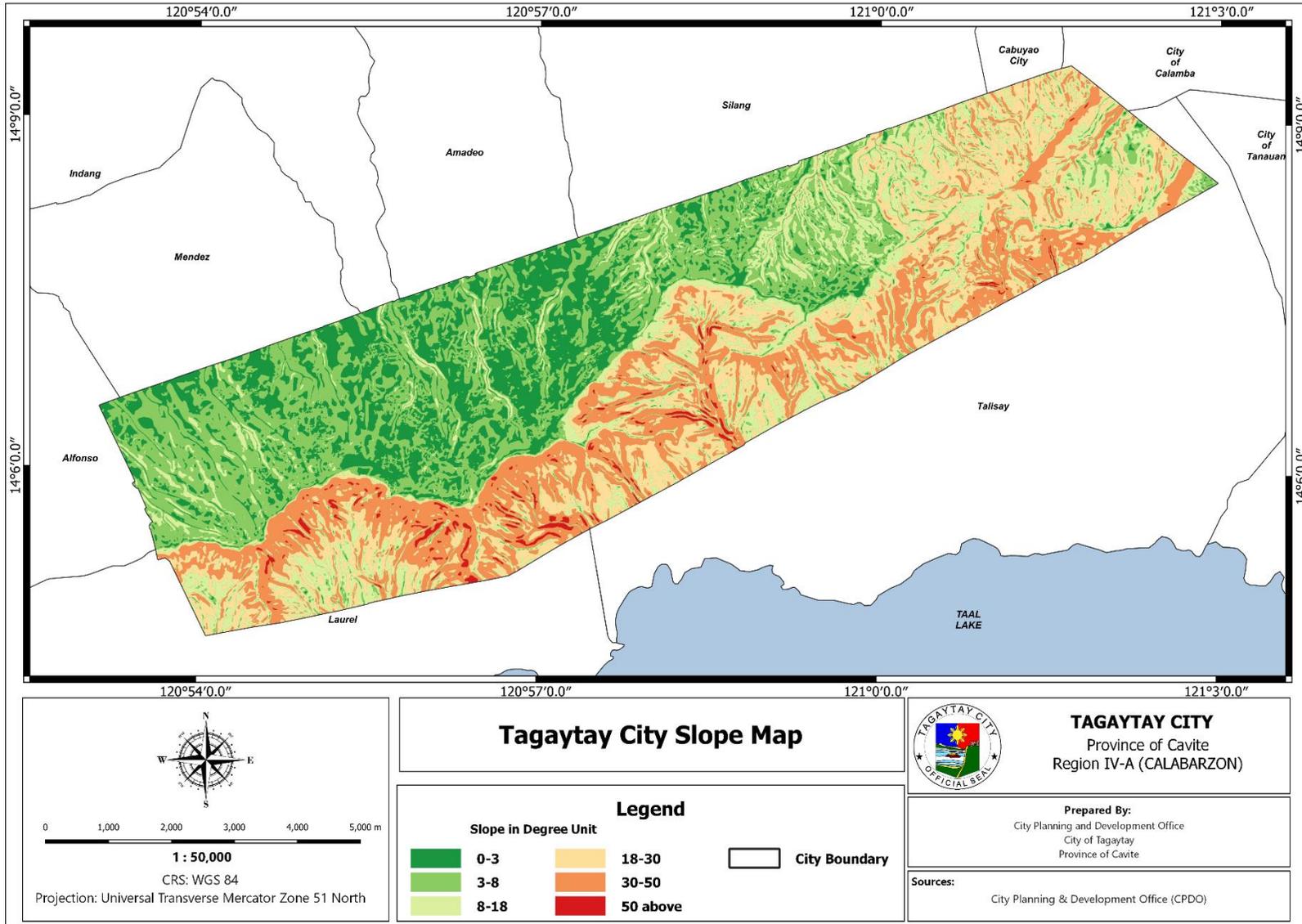
Type C slopes (8-18%) are most prevalent in Barangays Francisco, Iruhin, Sungay, Tolentino and San Jose. These gently undulating slopes are mostly devoted to different crops due to their suitability for cultivation.

Except for the eastern end of the city, the lands situated at the north of the National Highway leading to Batangas have slopes ranging from 0-8%. Slopes in these thirty four percent (15.75%) or 1, 023.99 hectares of land are classified as Type A.

Map 4. Elevation Map of Tagaytay City



Map 5. Slope Map of Tagaytay City



2.4 Geology

2.4.1 Rock Formations

The two types of rocks found in Tagaytay City are (1) volcanic rocks and (2) clastic rocks. Volcanic rocks are made up chiefly of andesite and basalt lava flows with some interpolated pyroclastic rocks, while clastic rocks consist of interbedded shale and sandstone with occasional thin leases of limestone, tuff and reworked sandy tuffs, calcareous and partly tuffaceous shale.

Only approximately 128.05 hectares of land representing 1.97 percent of the city's total land area are underlain by volcanic rocks. These cover portions of Barangays Dapdap, Calabuso, Iruhin East and Iruhin West. The rest of the city is underlain by clastic rocks.

2.4.2 Soils

Knowledge of the soil types and soil characteristics provides some guiding principles in selecting and recommending various uses of land. The basic types of soils found in Tagaytay City belong to Tagaytay series. These are the Tagaytay sandy loam and the Tagaytay loam.

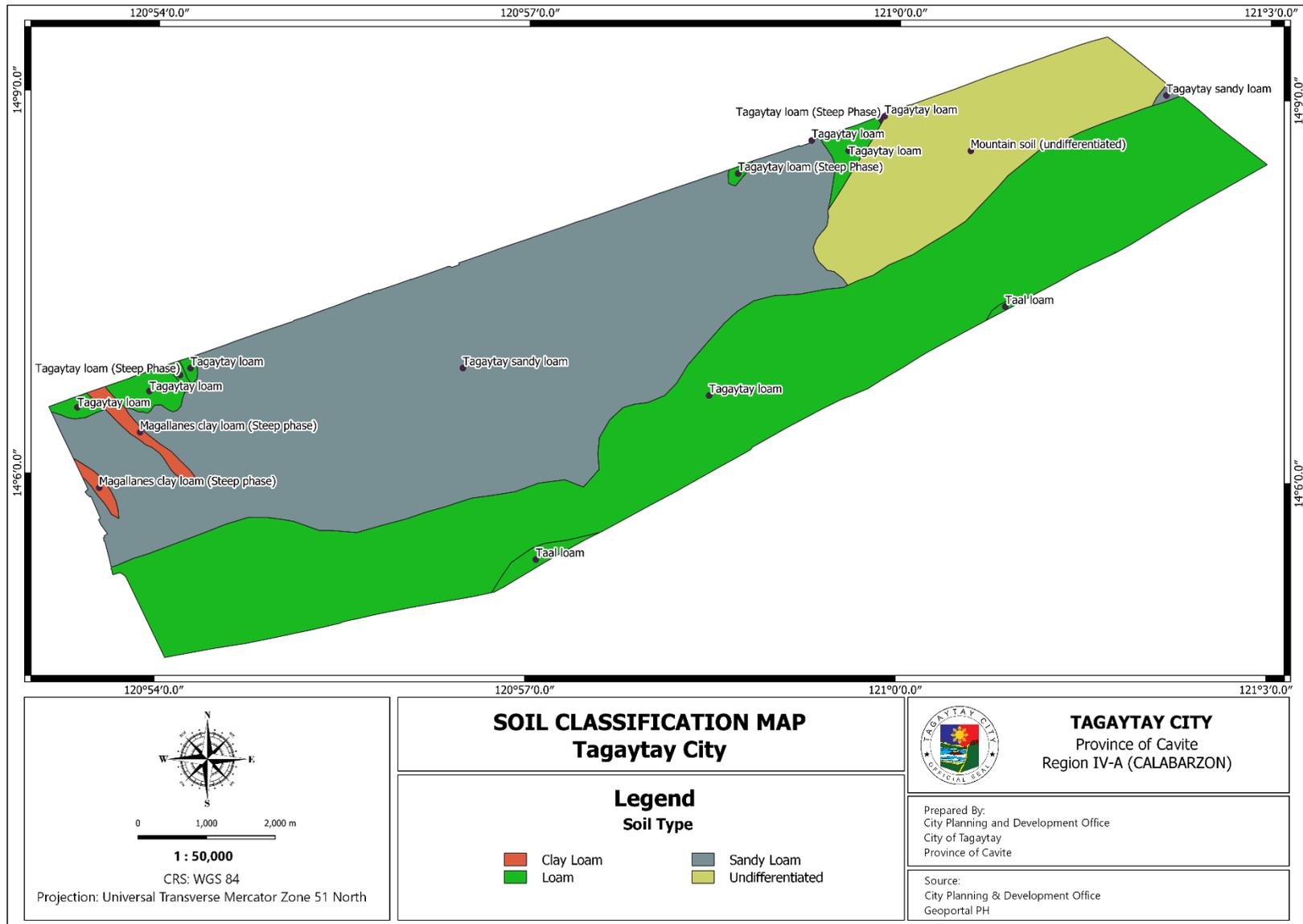
The central and western portions of the city are covered by the Tagaytay sandy loam. The surface soil of the Tagaytay is sandy loam which is 12 to 50 centimeters deep, dark brown to nearly black, friable and granular sandy loam with a considerable amount of volcanic sand. The subsoil is dark brown to very dark brown and varies in texture from clay loam to clay. It is underlain by reddish-brown to yellowish brown adobe clay. This adobe clay varies in depth depending on the topography of the place.

On the other hand, the eastern portion of the city is covered by Tagaytay loam, which has a surface soil consisting of a 15- to 35-centimeter-thick layer of brown to dark brown loam containing more or less fine sandy material. The soil is moderately friable when moist. In the disturbed condition, it becomes hard and cakes when dry. This type of soil is easy to work on. Among the crops that grow best in this type of soil are upland rice, corn, sugarcane, coconuts, citrus, coffee, pineapple, avocado and various vegetables.

2.4.2.1 Soil Suitability Classification

Soil suitability classification is a more specific method of showing the relative suitability of the different soil units to specific crops of land uses based on the soil qualities and other limitations, which affect the crop or specific use.

Map 6. Soil Map of Tagaytay City



Soil suitability is divided into two categories:

Soil Suitability for Urban Use

Class I (Good) – soils that have properties favorable for the rated use with none to slight limitations that can easily be overcome

Class II (Fair) – soils that have properties which are moderately suitable for the rated use with moderate soil limitations that can be overcome or modified with good planning, design or special maintenance

Class III (Poor) – soils that have one or more characteristics unfavourable for the rated use with severe soil limitations that are difficult and costly to modify or overcome, requiring major soil reclamation, special design or intensive maintenance

Class IV (Not Suitable) – soils that have one or more properties so unfavorable for urban use that overcoming the limitation is most difficult and costly

Soil Suitability for Agricultural Use

Highly Suitable or Good – the soils are suitable for use under simple but good management practices. Slight soil limitations, if any, are easy to overcome.

Moderately Suitable or Fair – the presence of minor or moderate soil limitations or restrictions can be overcome with easily applied farming practices

Marginally Suitable or Poor – the existence of serious soil limitations or restrictions can be overcome with intensive and complex farming practices and special management, and;

Not Suitable – the presence of very serious limitations or restrictions renders the soil not suitable or uneconomical to use under any management condition.

Based on the soil suitability study for urban use, 4,901 hectares or 75.4% of the city could be utilized for urban development. Out of this, 2,940 hectares or 60% are good lands, 882.18 hectares or 18% are rated fair while 1,078.22 hectares or 22% are rated poor. The good lands are generally situated along the north of the national highway leading to Batangas province. At present, the city's built-up areas are dispersed in these lands. On the other hand, 24.6% of the total land area or 1,599 hectares of strongly hilly to mountainous areas along the ridge are rated as not suitable for urban use. These strongly sloping portions of the city are currently being utilized as forest or abandoned as open grasslands. However, even these areas are experiencing the pressure of land conversion owing to their have unobstructed view of the Taal Lake.

On the other hand, lands suitable for upland rice cover 61.63% of the city's total land area. These consist of highly, moderately and marginally suitable lands which have slopes ranging from 0.0 to 5.0 percent. A survey of the existing land use in the city revealed, however, that only an insignificant portion of the total land area is devoted to rice production.

Lands that were once utilized as rice fields are small patches of land dispersed in the level to nearly level lands of the city. This indicates that areas suitable for upland rice, which are also suitable for tree crops and diversified crops are instead being used for the production of high-income yielding crops such as coffee, pineapple, bananas, tomatoes and string beans.

Lands suitable for diversified crops cover a total area of 4,995.25 hectares or 76.85% of the city's total land area. On the other hand, the mountainous area along the ridge, which is too steep for cultivation, is rated as not suitable for diversified crops.

Lands suitable for tree crops include lands that are characterized by strongly hilly topography. These lands, with slope qualifications that range from Type A through D equal 61.63% of the total land area and amounts to 4,005.95 hectares are highly suitable. The strongly sloping areas covering 988.65 hectares or 15.21% of the city's total land area are moderately suitable while the mountainous areas generally situated along the ridge are marginally suitable.

2.4.3. Land Capability Classes

Land capability classification is a scheme for grouping soil units together according to the best use of lands in order to optimise production, preserve land and prevent soil damage through improper use. The classification indicated the relative suitability of land for agriculture and the corresponding land management requirements. This serves as one of the important bases in recommending the use land, especially for areas to be returned for agriculture. The four major factors considered in land capability classification are: (1) soil properties (2) degree of erosion and (300) drainage and flooding hazard.

Land capability classes are grouped into four general uses from the standpoint of agricultural as well as economic capabilities. This can be any or a combination of the four general purposes, namely: (1) Lands suitable for cultivation; (2) Lands limited to pasture; (3) Lands limited to forests and (4) Lands limited to wildlife and recreation.

In Tagaytay City, the lands suited for agriculture consists of four land capability classes. These arable lands which cover 3,836.95 hectares or 59.03% of the total land area and are currently cultivated and planted to diversified crops such as coffee, pineapple, corn, banana, sweet potatoes, coconuts, palay and vegetables. The land capability classes to which those lands belong are as follows:

Land Capability Class "A"

This class includes very good lands, which can be cultivated safely and require only simple but good farm management practices.

Land Capability Class "Be"

This class include good lands that are nearly level to gently sloping, slightly to moderately eroded and can be cultivated safely if carefully planned erosion control management practices and intensive soil conservation practices are observed.

Land Capability Class "Ce"

This class consists of moderately good lands that are moderately sloping, moderately to severely eroded, and can be cultivated safely if carefully planned erosion control management practices and intensive soil conservation practices are observed.

Land Capability Class "De"

This class include fairly good lands that are slightly sloping, moderately to severely eroded due to excessive run-off and can be cultivated occasionally if handled with care. These lands require very careful management and complex conservation practices and are most suitable to pasture or tree farms.

On the other hand, the non-arable lands in the city cover 2494.05 hectares or 38.37% of the total land area. These lands are unsuitable for agriculture and consist of land capability classes “M” and “N” which are mostly situated along the ridge area and the eastern portion of the city. These non-arable lands are characterized by the following:

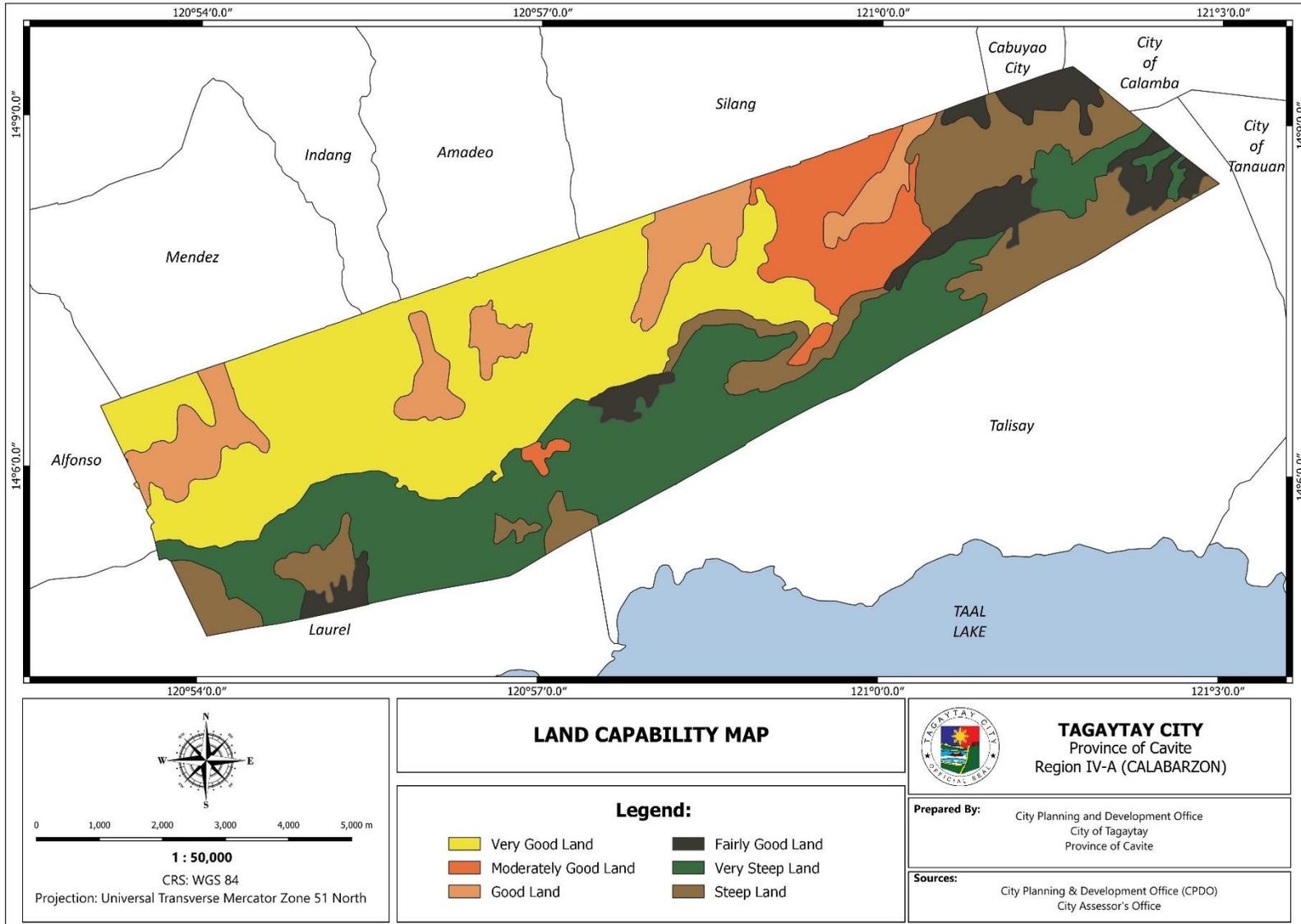
Land Capability Class “M”

Lands included here are those which are very steep to mountainous, excessively eroded or shallow for cultivation. Stones and rock outcrops are occasionally present. These lands are good for grazing or for forest and need careful farm management.

Land Capability Class “N”

This includes very steep lands, which are excessively eroded, shallow, rough or dry for cultivation but can be used for grazing with careful management and definite restriction. These lands are best suited to forest with careful management.

Map 7. Land Capability Map of Tagaytay City



2.5 Land Resources

2.5.1 Land classification

As per Forest Land Use Plan 2019, the Land Classification maps available and data gathered from City Assessor’s Office particularly the administrative boundary were used to determine the approximate area of the forestland and alienable and disposable land. The following data was determined using GIS Mapping:

Table 3. Land Classification

Land Classification	Area (ha)	Percentage Allocation
Forest Land	2,783.03	42.85%
Alienable and Disposable Land	3,716.97	57.18%
Total	6,500	100%

Source: Community Environment and Natural Resource Office (CENRO)

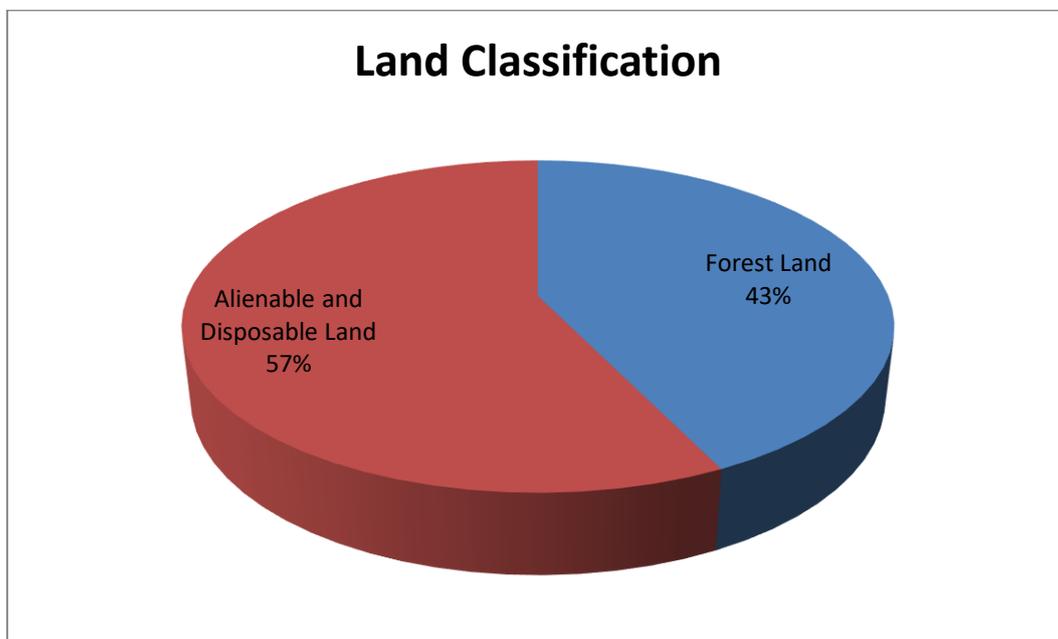
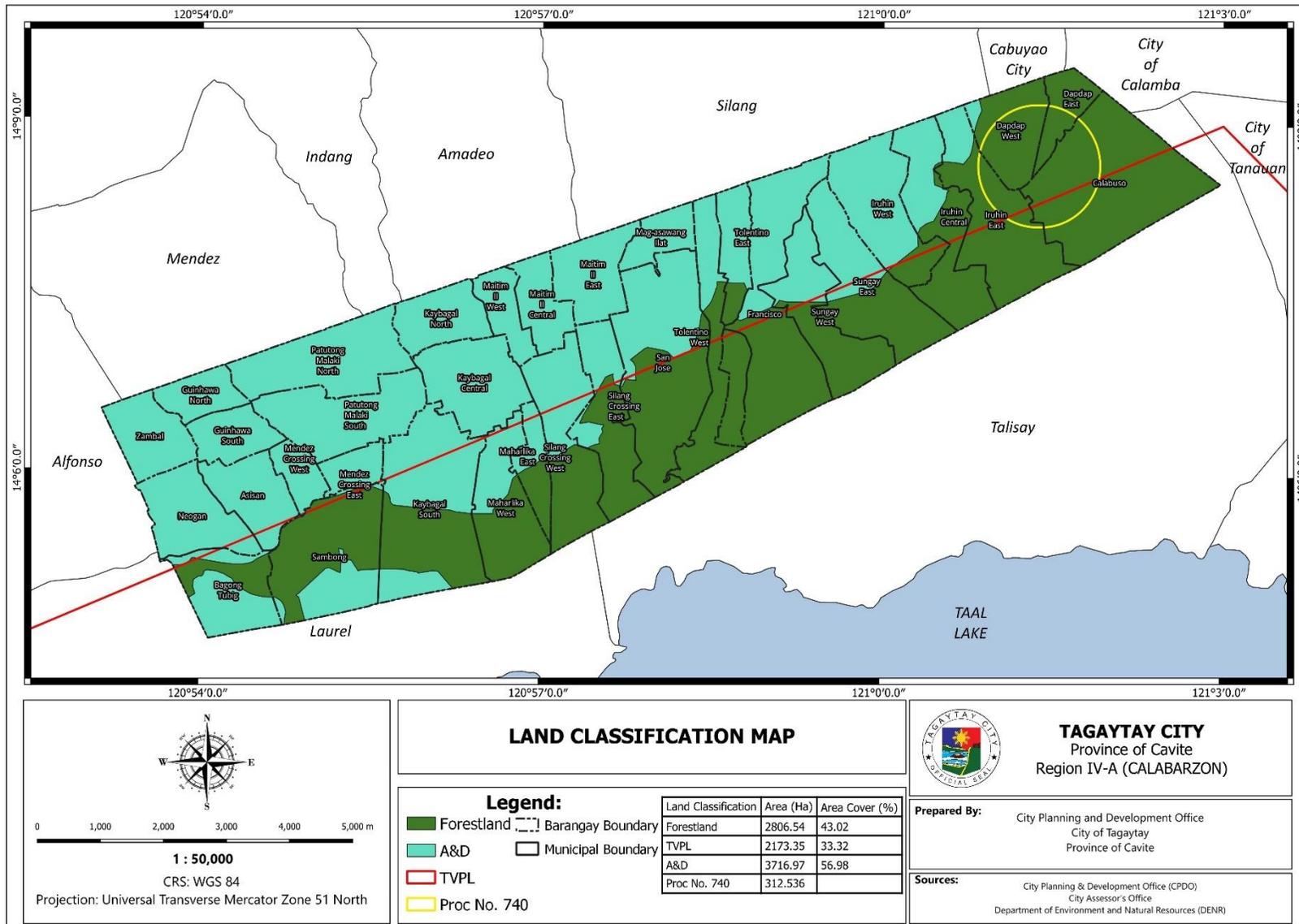


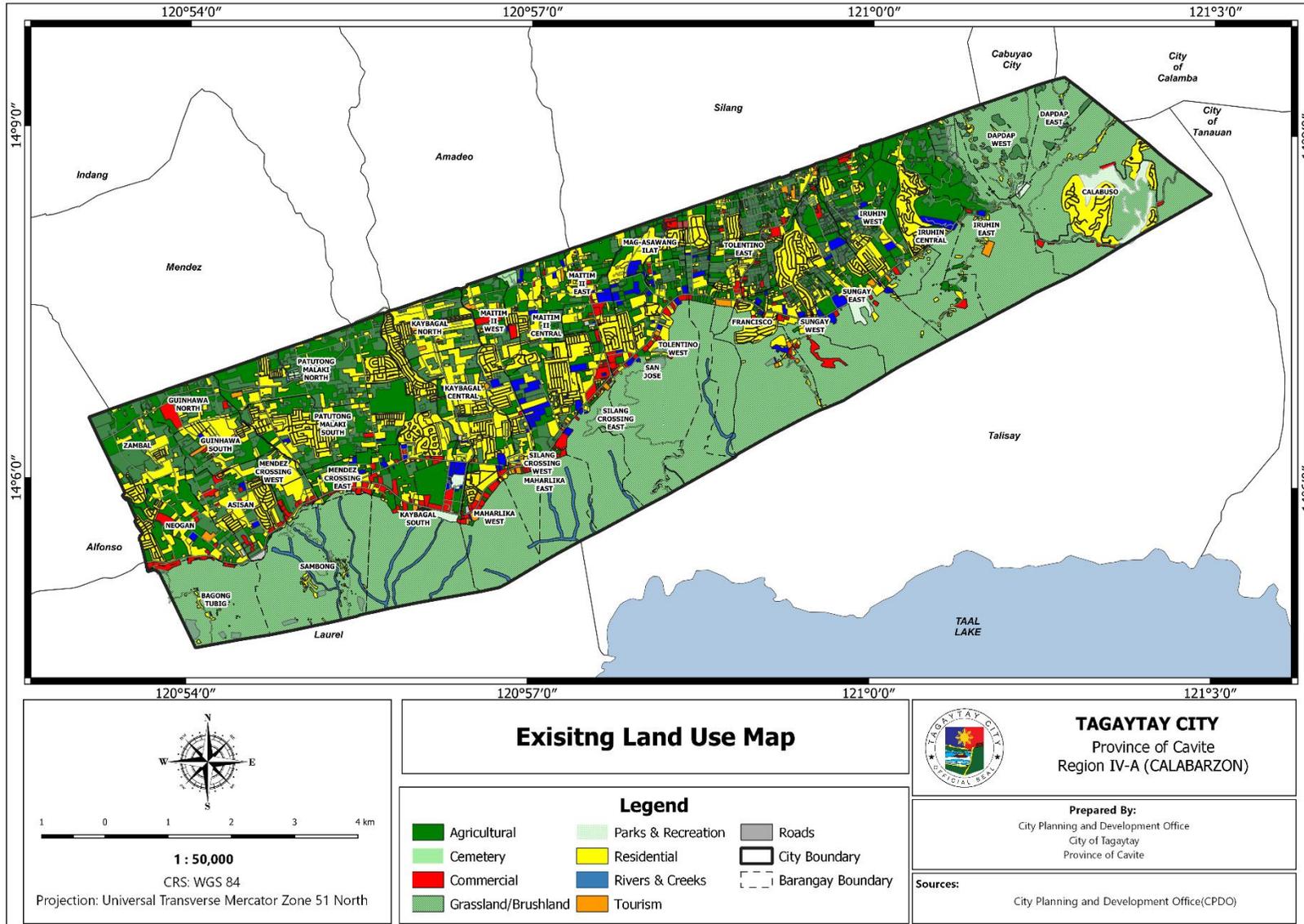
Figure 1. Land Classification of Tagaytay City

Through digitizing the LC Map No. 3553 and overlaying the administrative boundary from City Assessor’s Office, the area of the City of Tagaytay is approximately 6,500 hectares. The forestland has a total area of of 2,783.03 hectares while the alienable and disposable has a total area of 3,716.97 hectares. The forest land includes forest land area under Project No. 3-A Block-A, Project No. 3-A Block-B, Project No. 39 Block –A, Project II-B per LC 3004 and the unclassified public forest.

Map 8. Land Classification Map of Tagaytay City



Map 9. Existing Land Use Map of Tagaytay City



2.5.2 Land Use

The type of land use to which majority of land (40.05%) in Tagaytay are devoted as Grassland or Brushland. Second is the Agricultural Development Area (26.79%) followed by Residential Area (22.08%). As of 2020, Commercial Area occupies only 3.72% share from the Land Use.

Table 4. Existing Land Use Categories (2022)

Land Use Classification	Area (Ha)	Share
Agricultural	1676.23	25.79%
Cemetery	7.80	0.12%
Commercial	232.59	3.58%
Grassland/Brushland	2505.50	38.55%
Institutional	108.13	1.66%
Parks & Recreation	253.49	3.90%
Residential	1381.55	21.25%
Rivers & Creeks	86.00	1.32%
Utilities	5.39	0.08%
Roads	243.34	3.74%
Grand Total	6500.00	100.00%

Source: Google Satellite Image/Ground Validation (2022)

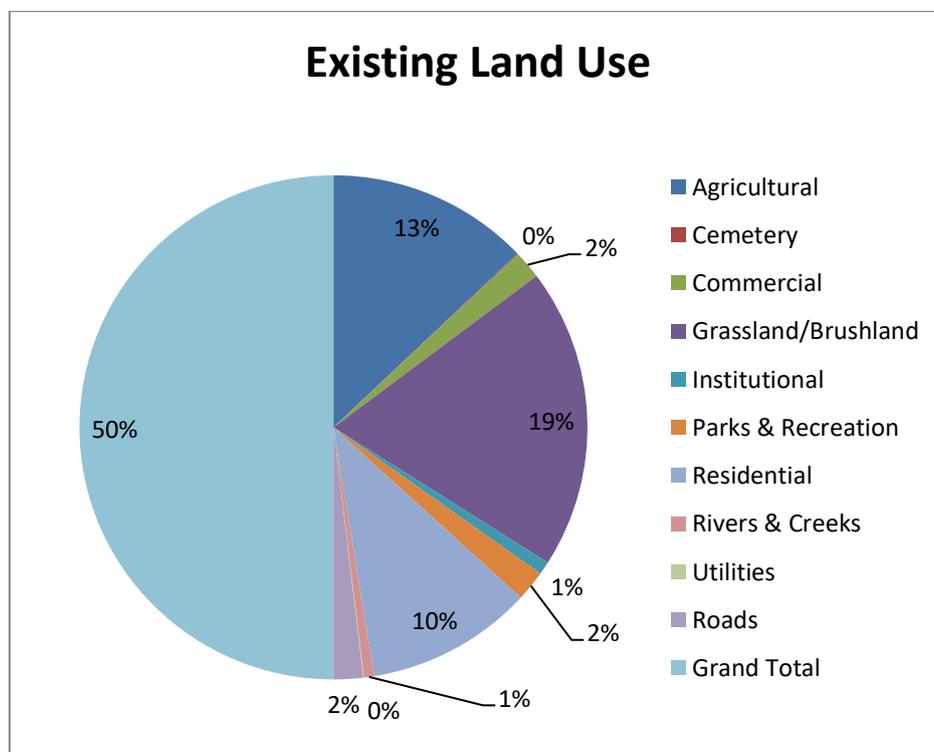


Figure 2. Existing land use of Tagaytay City

2.5.2.1 Urban Land Use Pattern

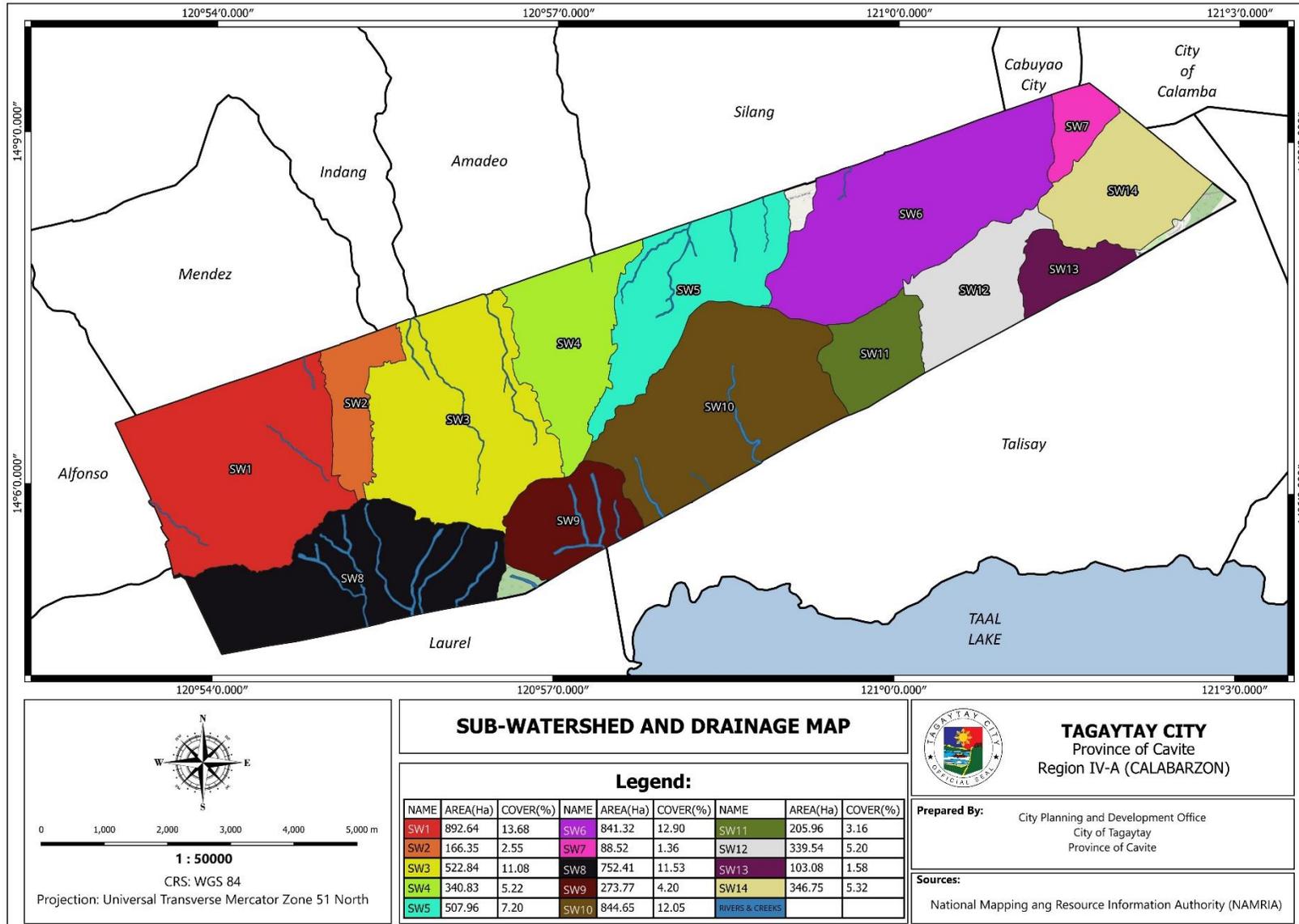
The urban area embraced twenty-nine (29) barangays namely: Asisan, Calabuso, Francisco, Guinhawa South, Iruhin East, Central and West, Kaybagal Central, Kaybagal North and South, Maharlika East and West, Mendez Crossing East and West, Maitim II East, Central and West, Neogan, Patutong Malaki North and South, San Jose, Sungay East and West, Silang Crossing East and West, Tolentino East and West, and Zambal. These twenty-nine barangays account for 94.41% of the total population in 2020.

The urban area has a variety of land uses dominated by residential followed by commercial and functional open spaces like parks and other recreational areas.

2.5.3 Land Ownership

Only minimal areas are left in the possession of the government since most lands, including those at the steep slopes, are titled to individual owners. Other owners are religious institutions, residential subdivision developers and commercial / tourism realtors.

Map 10. Sub-watershed and Drainage Map of Tagaytay City



2.6 Climate

Tagaytay City's climate is characterized by relatively low temperature, low humidity and abundant rainfall. The city is endowed with a cool and invigorating climate with an average temperature of 22.7 degrees Celsius. The city is misty and is relatively cooler during the months of December, January and February. Like most areas in the Province of Cavite, the city has two pronounced seasons: dry from November to April and wet during the rest of the year.

2.6.1 Atmospheric Temperature

The city is endowed with a cool and invigorating climate with an average temperature of 22.7° C. Situated approximately 600 meters above sea level, the city is misty and is relatively cooler during the months of December, January and February.

2.6.2 Relative Humidity

Relative humidity is a measure of the moisture content of the atmosphere. The average relative humidity of Tagaytay is 78 percent. This makes the city cooler than the Metropolitan Manila area where the average relative humidity exceeds 81 percent.

2.6.3 Rainfall

Maximum rainfall usually occurs from July to September. The city's annual rainfall is 2,546 mm with a peak of 459 mm in August and low of 27 mm in February.

2.6.4 Temperature Range

Based on readings done at PAG-ASA Sangley Point Station, the mean monthly temperature during the months from December to February drops as low as 23.3 centigrade and rises to as high as 34.4 centigrade between the months of April and May. Results also show that the mean annual temperature is 28.4 centigrade.

The months of April and May prove to be the hottest with an average maximum temperature of 26.6 centigrade. Nevertheless, the mean temperature between the warm and the cool months not vary by more than 7.8 centigrade.

2.6.5 Evaporation and Evapotranspiration

From the evaporation values estimated using the rainfall data collected by PAG-ASA Sangley Point Station, the monthly evaporation varies from 3.5 mm to 11.3 mm. The data shows that moisture in the atmosphere increases during the months of February to May and gradually decreases when rainfall intensity increases beginning June till January.

Evapotranspiration exceeds rainfall during the months of December to April. This is attributed to the combined effects high temperature, low relative humidity, long sunshine hours and many windy days characterized by relatively high wind speeds. High evapotranspiration can be very stressful on plant growth. Areas planted to crops during the months of high evapotranspiration suffer drought.

Table 5. Climatological Normal

MONTH	RAINFALL		TEMPERATURE						VAPOR PRESS (mbs)	RH (%)	MSLP (mbs)	WIND		CLOUD AMT. (okta)	NO. OF DAYS	
	Amount (mm)	No. of RD	MAX (°C)	MIN (°C)	MEAN (°C)	DRY BULB	WET BULB	DEW POINT				DIR (16pt)	SPD (mps)		TSTM	LTNG
JAN	19.9	3	30.3	24.3	27.3	26.9	23.9	22.8	27.9	79	1012.6	ESE	3	5	1	1
FEB	20.4	3	31.1	24.5	27.8	27.3	24.1	22.9	27.9	77	1012.7	ESE	3	4	1	1
MAR	19.1	3	32.5	25.5	29.0	28.5	24.9	23.6	29.1	75	1012.0	ESE	4	4	1	1
APR	17.7	2	34.3	26.8	30.5	30.1	26.0	24.7	31.0	73	1010.0	ESE	4	4	3	4
MAY	149.9	8	34.1	27.2	30.7	30.3	26.6	25.5	32.6	76	1008.9	ESE	3	5	10	11
JUN	260.4	13	33.1	26.7	29.9	29.6	26.6	25.6	32.9	80	1008.4	ESE	3	6	12	14
JULY	456.5	18	31.8	26.1	28.9	28.6	26.1	25.3	32.3	83	1007.8	SW	3	6	12	13

AUG.	514.3	19	31.4	25.9	28.7	38.3	26.1	25.3	32.3	84	1007.7	SW	3	6	11	10
SEP	385.5	17	31.6	25.9	28.7	28.3	26.0	25.3	32.3	84	1008.3	W	3	6	11	11
OCDT	196.9	12	31.8	26.1	29.0	28.6	25.9	25.0	31.8	81	1009.1	ESE	3	6	8	9
NOV	109.1	9	31.5	25.8	28.7	28.3	25.4	24.5	30.7	80	1010.3	ESE	3	5	3	4
DEC	91.6	7	30.5	25.0	27.7	27.4	24.6	23.6	29.2	80	1011.5	ESE	3	5	2	1

Source: PAG-ASA Station, Sangley Point, Cavite
 Period : 1991-2020

2.6.6 Wind Direction

North-eastern winds prevail in the city during the months of October, November, December, January, February, March and April. Winds came from the southwest during May, June, July, August and September. The average speed of the wind is 6 knots per hour.

2.6.7 Climate Projection

The city falls under Climate Type I which has two pronounced seasons: dry from November to April and wet during the rest of the year while the maximum rain period is from June to September (PAGASA, 2011).

The climate change projections for the municipality as seen below is based from the projected changes of different climate variable for 2020 and 2050 from PAG-ASA (2011) using the observed historical baseline from 1971 to 2000 for every province in the country.

The changes in the climate variables might cause a significant increase in the likelihood of occurrence and severity of impacts of the hazards to the municipality. The consequences of these changes may lead to the increase in the level of risk the municipality is exposed to. The different exposure units in the municipality, which includes population, urban use areas, resource-based production areas, lifeline utilities and critical point facilities can be affected by these changes and might result to certain consequences.

Table 6. Summary of Projected Climate Changes in the Municipality (2020 and 2050)

Climate Variable	Observed Baseline (1971-2000)				Change In 2050 (2036-2065)					
	DJF	MAM	JJA	SON	Scenario	Range	DJF	MAM	JJA	SON
Seasonal temperature Increase (in °C)	25.7	28.2	27.3	27.3	Moderate Emission	Lower Bound	26.7	29.2	28.3	27.9
						Median	27.0	29.4	28.5	28.0
						Upper Bound	27.4	29.9	29.1	28.7
					High Emission	Lower Bound	26.9	29.5	28.6	28.3
						Median	27.3	29.8	28.8	28.4
						Upper Bound	27.7	30.5	29.5	29.1
Seasonal rainfall change (in %)	124.9	242.8	985.7	579.0	Moderate Emission	Lower Bound	135.6	244.3	722.4	543.3
						Median	140.5	259.6	808.1	555.4
						Upper Bound	194.5	286.2	1078.6	618.0
					High Emission	Lower Bound	134.7	216.1	760.8	553.9
						Median	140.9	251.8	883.2	584.2
						Upper Bound	169.7	323.1	1100.2	638.9

Climate Variable	Observed Baseline (1971-2000)				Change In 2050 (2036-2065)					
	DJF	MAM	JJA	SON	Scenario	Range	DJF	MAM	JJA	SON
	No. of days with maximum temperature >35 °C	630				2,733				
No. of dry days	7,352				6,565					
No. of days with rainfall >200mm	6				9					

Source: PAGASA 2011 and 2018

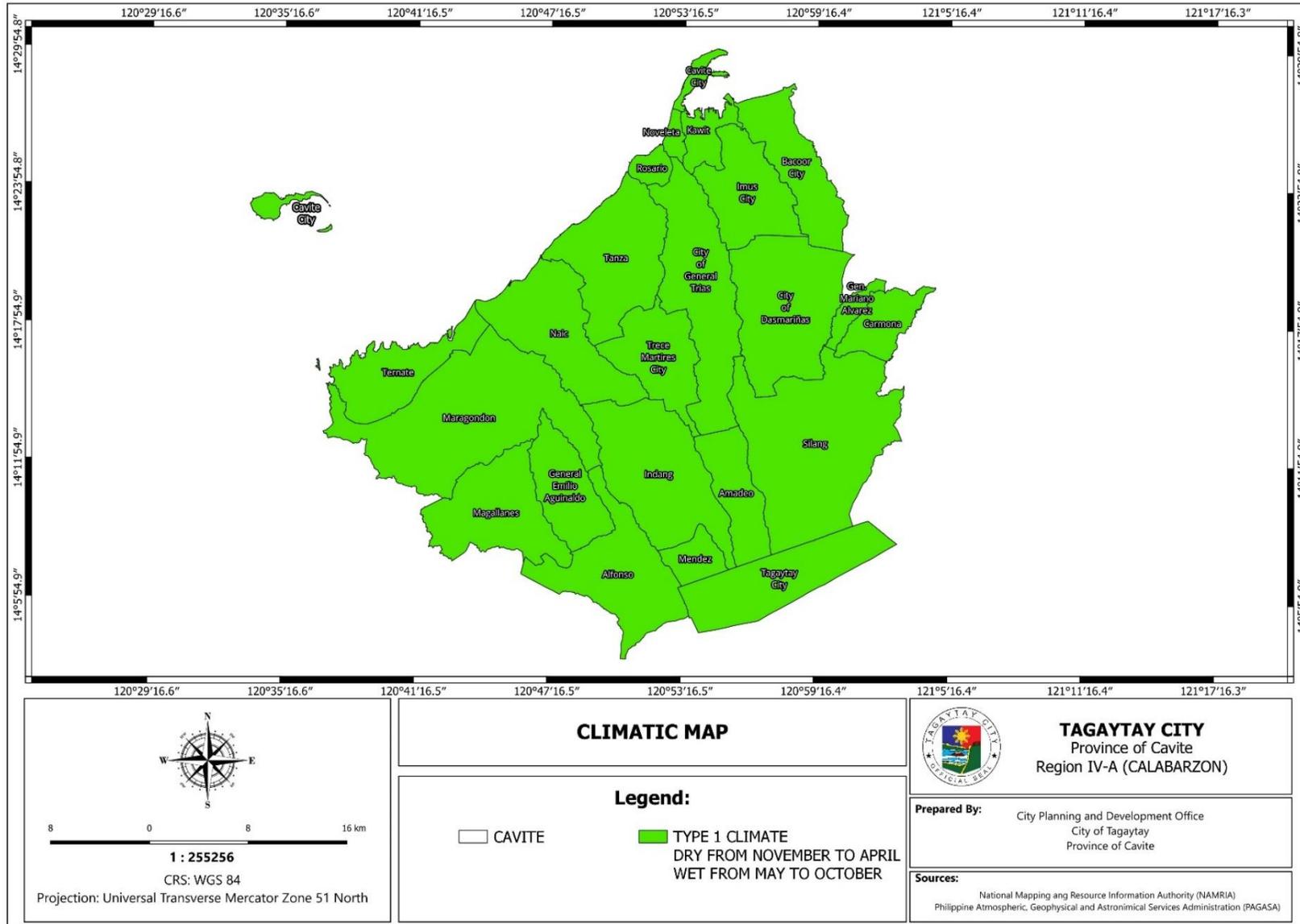
Table 7. Projected Changes in Climate Variables, City of TAGAYTAY, Province of CAVITE

Climate Variable	Observed Baseline (1971-2000)	Specific Change Expected and Reference Period	Information about Patterns of Change	Population	Natural Resources	Critical Facilities	Urban Use Areas	Infrastructure and Utilities
Temperature	25.1 °C during the DJF	26 °C by 2020 and 26.90 °C by 2050 during the DJF	Temperature increases in all months	Warmer environment resulting to increase in water consumption	Possibility of drought	Decrease in water supply in key services (e.g., schools, hospitals)	Warmer temperature in urban areas	Power shortage due to high energy consumption
	27.2 °C during the MAM	28.3 °C by 2020 and 29.30 °C by 2050 during the MAM	More intense tropical cyclone, increase precipitation and strong winds	Decrease in water supply for domestic use due to drying up of watersheds	Decrease in crop production due to pest infestation and low tolerance to heat	Water shortage for commercial establishments	Decrease in water supply for urban use	Damaged infrastructure, unpassable road, communication and power supply loss
	27.6 °C during the JJA	28.6 °C by 2020 and 29.6 °C by 2050 during the JJA		Increase in production costs and prices of agricultural commodities	Increased production cost		Damaged settlement, institutions and commercial areas	
	27.70 °C during the SON	26.7 °C by 2020 and 28.5°C by 2050 during the SON			Ecological imbalance, disappearing habitats, damaged trees and crops			
Rainfall	827.7 during the DJF 382.7 during the MAM 670 during the JJA 1229.30	773.8995 by 2020 and 773.0718 by 2050 during the DJF 311.5178 by 2020 and 303.8638 by 2050 during the	Reduction in rainfall during “Amihan” months in DJF and summer in 2020 and 2050	Health-related problems that may affect quality of well-being	Vulnerability of soil erosion and rain-induced landslide.	Highly susceptible to soil erosion and rain-induced landslide	Increased landslide incidence and disrupting urban area activities during Habagat	

Climate Variable	Observed Baseline (1971-2000)	Specific Change Expected and Reference Period	Information about Patterns of Change	Population	Natural Resources	Critical Facilities	Urban Use Areas	Infrastructure and Utilities
	during the SON	MAM 650.57 by 2020 and 626.45 by 2050 during the JJA 1165.3764 by 2020 and 1218.2363 by 2050 during the SON	Increase in rainfall during “Habagat” and Amihan of 2020 & 2050	Increase water-borne diseases	Decreased productivity of crops Changes in forest ecosystem which may lead to dieback	Prone to flash floods for those residing near the creek area		All structures along the ridge area are vulnerable to landslide
Number of Hot days	Tagaytay - 22 days	Tagaytay 791 days in 2020 and 1434 days exceeding 35°C in 2050	Significant increase in the number of hot days expected in 2020 and 2050	Increase consumption of water and electricity Health- related problems due to heat- related stress	Pest multiplication Decrease in recharging capacity of water table	None	Possible amplification of urban heat island effect	None
Number of Dry days	Tagaytay 6771 days	Tagaytay 4717 days in 2020 and 4668 days with <2.5 mm of rain in 2050	There will be more days with rainfall (less days with dry days compared to baseline)	Incidence of flash flooding may lead to damage to properties especially dwelling units and mortality	High possibility of soil erosion and rain- induced landslide. Damage to crops	Prone to flash floods for those residing near the creek area Potential reduction of delivery of social services	Rain induced landslide incidence would increase	Rain induced landslide incidence would increase
Extreme Daily Rainfall Events	Tagaytay 17 extreme rainfall events	Tagaytay 9 days in 2020 and 12 days	More extreme daily rainfall expected (>200mm)	Incidence of landslide may lead to damage to properties	High possibility of soil erosion and rain- induced landslide	Potential reduction of delivery of social services	Rain induced landslide and flash flood incidence	Increased incidence of rain induced landslide

Climate Variable	Observed Baseline (1971-2000)	Specific Change Expected and Reference Period	Information about Patterns of Change	Population	Natural Resources	Critical Facilities	Urban Use Areas	Infrastructure and Utilities
	exceeding 200 mm	with >200 mm of rain in 2050	in 2020 and 2050	especially dwelling units	Damage to crops		would increase Disruption of economic activities due to flooding	

Map 11. Climate Map of Cavite Province



2.7 Natural Hazards

2.7.1 History of Previous Disasters

The following are the documented and recalled natural calamities that affected the City of Tagaytay with specific information on damages made.

Table 8. History of Previous Disasters

Hazard Events and Description/Date	Affected Barangays	Number of Casualties			No. of Houses Damaged		Damage to Properties (Php)				Source of Information
		Dead	Injured	Mis sing	Tot ally	Parti ally	Infra	Agri	Insti	Private / Commercial	
Typhoon Milenyo (2006)	34 barangays	3	0	0	0	0	None	None	0	0	CDRRMO
Typhoon Reming (2006)	33 barangays	0	0	0	0	0	None	None	0	0	CDRRMO
El Niño (2009-2010)	All barangays	-	-	-	-	-	-	-	-	-	Key Informant Interviews
Typhoon Yolanda (Flooding) 8 November 2012	All barangays	1	0	0	5	35	150,000	A: 3,504,265 F: 310,000 L: 2,000	3,300,000	-	MDRRMO MPDO
Typhoon Maring (Flooding) 19-20 August 2013	Sta. Brigida	0	0	0	-	-	2,050,000	48,000	-	-	MDRRMO MPDO
Typhoon Glenda (2014)	34 barangays	0	0	0	0	5	None	None	500,000.00	3,500,000.00,	CDRRMO
Typhoon Nina (2016)	34 barangays	0	0	0	0	0	0	-	-	-	CDRRMC
Taal Volcano Eruption (2020)	34 barangays	0	0	0	0	0	0	-	-	-	CDRRMC
Typhoon Paeng (2022)	34 barangays	0	0	0	None	None	None	None	-	-	CDRRMC

Source: Municipal Disaster Risk Reduction and Management Office

2.7.2 Hazard Inventory Matrix

The data below shows that the hazards the City of Tagaytay are susceptible are mostly rain-induced and earthquake induced landslide, and ground shaking. Specific susceptibility per barangay is given in the table below.

Table 9. Hazard Inventory Matrix

Barangay	Rain-Induced Landslide	Earthquake- induced landslide	Ground shaking
Asisan			/
Bagong Tubig	/	/	/
Calabuso	/	/	/
Dapdap East	/	/	/
Dapdap West	/	/	/
Francisco	/	/	/
Guinhawa North			/
Guinhawa South			/
Iruhin Central	/	/	/
Iruhin East	/	/	/
Iruhin West	/	/	/
Kaybagal Central			/
Kaybagal North			/
Kaybagal South	/	/	/
Mag-asawang Ilat			/
Maharlika East	/	/	/
Maharlika West	/	/	/
Maitim II Central			/
Maitim II East			/
Maitim II West			/
Mendez Crossing East			/
Mendez Crossing West			/
Neogan			/
Patutong Malaki North			/
Patutong Malaki South			/
Sambong	/	/	/
San Jose	/	/	/
Silang Crossing East	/	/	/
Silang Crossing West	/	/	/
Sungay East	/	/	/
Sungay West	/	/	/
Tolentino East	/	/	/
Tolentino West	/	/	/
Zambal			/

Source: Municipal Disaster Risk Reduction and Management Office

2.7.2.1 Typhoons

Thirty-one to forty percent of the typhoons visiting the Philippines affect Tagaytay City. The probable months of typhoon season are from June to December.

2.7.2.2 Soil Erosion

Based on the generated map from the Forest Land Use Plan of 2019 and studies conducted by the DENR-PENRO Cavite, more than half of the land area of Tagaytay City has low landslide susceptibility in which areas are gently sloping with no identified landslide. Classified as critical area or very high landslide susceptible is 22.85 hectares of Tagaytay land. These areas are usually with steep to very steep slopes and underlain by weak materials. Recent landslides, escarpment, and tension cracks are present. Human initiated effects could be an aggravating factor. However, 2,913.22 hectares of Tagaytay City is classified as high landslide susceptible which areas usually with steep to very steep slopes and underlain by weak materials. These are areas with numerous old/inactive landslides.

2.7.2.3 Rain-induced Landslide

Rain-Induced Landslide – areas with low to gentle slopes and lacking tension cracks have low landslides susceptibility rating. Areas with moderate landslide susceptibility have inactive / old landslides and tension cracks which are located away from the community. These areas usually have moderate slopes and areas with high landslides susceptibility rating have active/recent landslides and tension cracks that would directly affect the community. Those areas with steep slopes are highly susceptible to landslides.

Water can trigger landslides and mudslides because it alters the pressure within the slope which leads to slopes instability. Consequently, the heavy water-laden slope materials (soil, rock, etc.) will succumb to the forces of gravity. Excessive water is thought to be one of the most common triggers for landslides.

These are the 20 barangays with land areas covered by Taal Volcano Protected Landscape (ridge areas) and land areas with slope of 18° and above. Portion of barangay San Jose is **very highly susceptible** to landslide; portions of barangays Bagong Tubig, Sambong, Kaybagal South, Maharlika West, Maharlika East, Silang Crossing West, Silang Crossing East, San Jose, Tolentino West, Tolentino East, Francisco, Sungay West, Sungay East, Iruhin East, Iruhin West, Iruhin Central, Dapdap West, Dapdap East, and Calabuso are **highly susceptible to landslide**; portions barangay San Jose, Tolentino West, Tolentino East, Francisco, Sungay West, Sungay East, Iruhin West, Iruhin East, Iruhin Central, Dapdap West, Dapdap East and Calabuso are **moderately susceptible**; portions of remaining barangays located on the northern part of the city are **low susceptible to landslide**.

2.7.2.4 Earthquake-induced Landslide

20 barangays are susceptible to earthquake induced landslide –partial areas of the barangay with slope of more than 18% and above and areas along the ridge.

2.7.2.5 Drought

All barangays of the city are susceptible to drought during summer season due to the slope of the land agricultural areas are rain-fed-dependent.

2.7.2.6 Ground Shaking

14 barangays are susceptible to ground shaking. There are partial areas of the 14 barangays base on the topography, bedrock type and the location and orientation of the fault rupture. Ground-shaking – based on NAMRIA's Ground Shaking Map and PHIVOLCS Earthquake Intensity Scale (PEIS) for the Province of Cavite, the City of Tagaytay will likely experience the impact of ground shaking in scale of Intensity VII and above.

All barangays will be affected during earthquakes. The probability of damage to property, infrastructures, agriculture, commercial operational interruption and possible loss of life due to eventual movement of the fault line is very high.

In order to avoid the impacts of ground shaking, structure must be build in accordance to the prescribed structural standards stipulated in the National Building Code.

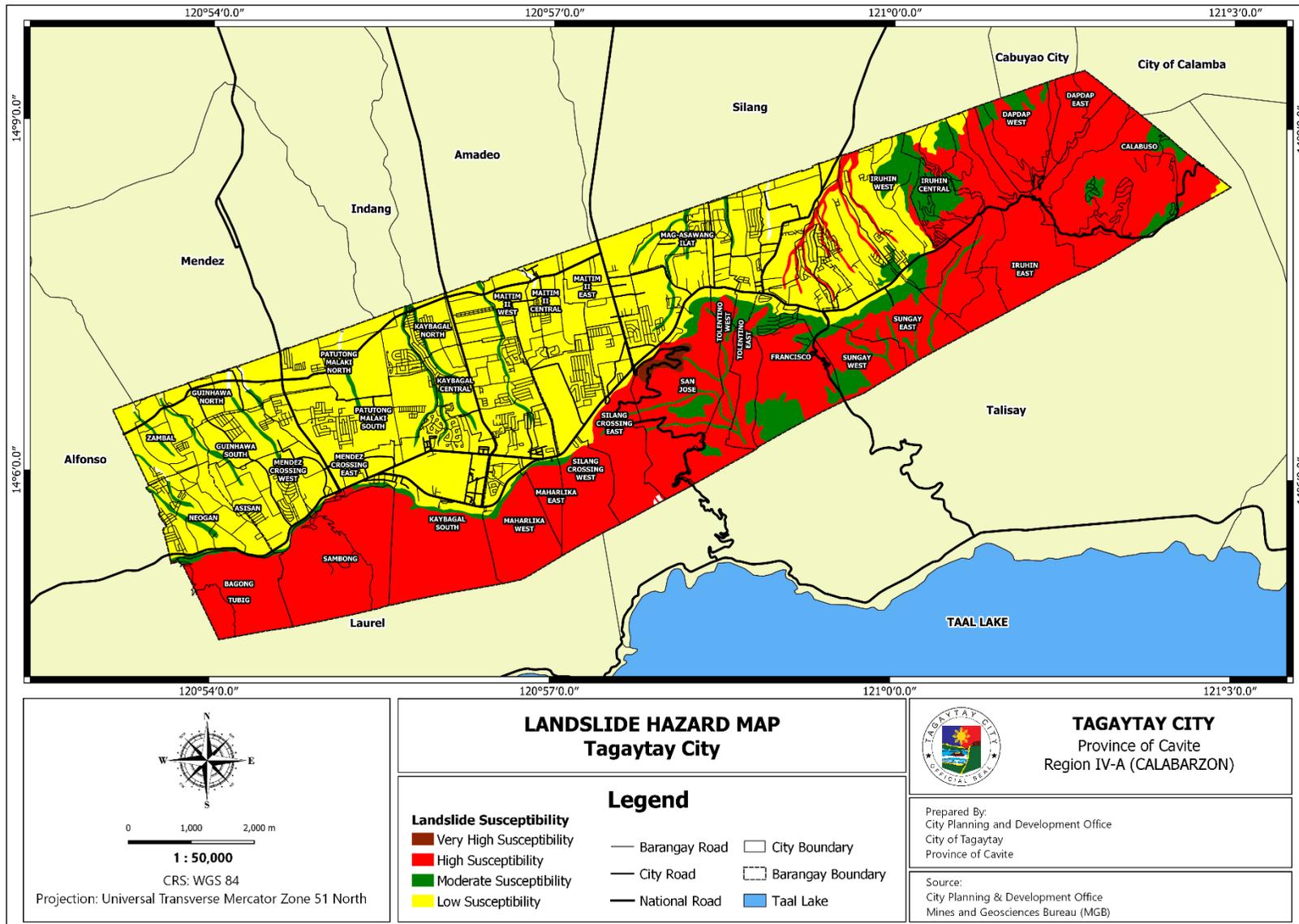
2.7.2.7 Ground Rupture

20 barangays are susceptible to ground ruptures. These are partial areas of the 20 barangays within the ridge areas.

2.7.2.8 Volcanic Ashes due to Eruption

Tagaytay City is within the 14-kilometer radius identified as a danger zone following the Taal Volcano's explosion of steam, smoke and ash. Despite being in the danger zone, according to Phivolcs, is not considered a high-risk area because of its elevation. No direct hazard is possible despite of the city's proximity to Taal Volcano. But inhalation of volcanic ash can be very detrimental to human health, due to the harmful aerosols and poisonous gases the ash is made up of, such as sulfur dioxide. Ash poses the largest risk to people, animals, crops and plants since ash flow from an exploding volcano can travel hundreds of kilometers an hour.

Map 12. Landslide Susceptibility Map of Tagaytay City



2.8 Urban Use Areas Exposure and Risk to Hazard

The urban use areas considered in the assessment were the residential, commercial, tourism, institutional, parks and recreation, tourism, and utilities. The vulnerabilities observed are the percentage of building walls with light to salvageable materials, percentage of buildings in dilapidated/condemned condition, percentage of buildings constructed before 1992, and employment of resilient building design. On the other hand, adaptive capacities include local awareness, access or area coverage to infrastructure-related mitigation measures, capacity and willingness to retrofit and relocate, presence of insurance coverage, government investments, available alternative sites/structures and government regulations on hazard mitigation, zoning and structural design standards.

2.8.1 Exposure to Hazard

Urban use areas exposed to very high landslide susceptibility are found to be 1.42 hectares, composed of commercial and residential areas in Barangay San Jose, while those highly susceptible are composed of commercial, residential, institutional, parks and recreation, utilities and tourism found in Barangays Bagong Tubig, Calabuso, Dapdap East, Dapdap West, Francisco, Iruhin Central, Iruhin East, Iruhin West, Kaybagal South, Maharlika East, Maharlika West, Mendez Crossing East and West, Neogan, Sambong, San Jose, Silang Crossing East and West, and Sungay East and West which constitute of about 222.78 hectares. Moreover, those at moderate risk to landslide are accounted to be approximately 157.88 hectares while 1, 415.38 hectares are at low risk.

2.8.2 Risk to Hazard

There are about 133.05 hectares of urban uses composed of commercial, institutional, residential, utilities, commercial, parks and recreation and tourism found in Barangays Bagong Tubig, Calabuso and Iruhin East that are at high risk to landslide. The replacement cost is computed to be about ₱159, 444, 316, 385, 437.00. On the other hand, about 1, 571.80 hectares of urban uses are at moderate risk, and about 92.61 hectares are at low risk.

Table 10. Urban Use Areas Exposure Database

Barangay	Urban Use Category	Susceptibility	Total Land Area Allocated Per Urban Land Use Category (Sq. M)	Calculated Land Area Exposed to Hazard Areas (Sq. M)	Average Construction/ Replacement Cost Per Classification	Replacement Cost	Affected Area Divided by Total Barangay Allocation	Structures Employing Resilient Desig	With access/area coverage to infrastructure related mitigation measures	Locals Are Aware and Provided Information On Hazards And Climate Change	Capacity and willingness to retrofit or relocate	Insurance Coverage	Government Investments	Available Alternative Sites/ Structures	Government Regulations on hazard mitigation zoning and structural design standards	Ris
		L/M/H														
Asisan	Commercial	Low	88060.32925	85595.98027	6265.850666	5363316299705	0.9720152196	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo

Barangay	Urban Use Category	Susceptibility	Total Land Area Allocated Per Urban Land Use Category (Sq. M)	Calculated Land Area Exposed to Hazard Areas (Sq. M)	Average Construction/ Replacement Cost Per Classification	Replacement Cost	Affected Area Divided by Total Barangay Allocation	Structures Employing Resilient Desig	With access/area coverage to infrastructure related mitigation measures	Locals Are Aware and Provided Information On Hazards And Climate Change	Capacity and willingness to retrofit or relocate	Insurance Coverage	Government Investments	Available Alternative Sites/ Structures	Government Regulations on hazard mitigation zoning and structural design standards	Ris	
		L/M/H															
	Commercial	Moderate	88060.32925	2464.34898	6265.850666	154412426973	0.02798478045	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low	
	Institutional	Low	20917.12692	20917.12692	10177.11606	2128760283535	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo	
	Residential	Low	553370.8339	550142.7981	8710.404697	47919664125758	0.9941665957	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo	
	Residential	Moderate	553370.8339	3228.03581	8710.404697	281174982830	0.005833404315	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low	
	Tourism	Low	16669.14367	15304.9	8710.404697	1333118728540	0.9181575432	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo	
	Tourism	Moderate	16669.14367	1364.25	8710.404697	118831696085	0.0818428365	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low	
	Utilities	Low	19370.31686	10272.89832	10177.11606	1045484784983	0.5303422961	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo	
	Utilities	Moderate	19370.31686	9097.41854	10177.11606	925854843484	0.4696577039	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo	
Bagong Tubig	Commercial	Moderate	40019.47478	30830.83441	8820.509251	2719436601330	0.770395778	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Hig	
	Commercial	High	40019.47478	9188.64037	8820.509251	810484873888	0.229604222	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo	
	Institutional	Low	1279.3364	1279.3364	2779	35552758556	1	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Hig	
	Residential	High	62096.36505	62096.36505	8603.01079	5342156985159	1	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Hig	
	Utilities	Moderate	832.25545	832.25545	2779	23128378956	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Hig
Calabuso	Commercial	High	42212.83069	42212.83069	8674.778534	3661869575096	1	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Hig	
	Institutional	Moderate	3078.47351	664.38458	4268.784587	28361146548	0.2158162407	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo	
	Institutional	High	3078.47351	2414.08893	4268.784587	103052256155	0.7841837593	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Hig	
	Parks & Recreation	Moderate	336560.2836	55794.03958	8674.778534	4840009368480	0.1657772539	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Mo	
	Parks & Recreation	High	336560.2836	280766.244	8674.778534	24355849866540	0.8342227461	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Hig
	Residential	Moderate	798838.9293	170491.0905	13927.69326	23745476112304	0.213423613	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Hig	
	Residential	High	798838.9293	628347.8388	13927.69326	87514359576862	0.786576387	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Hig	
	Utilities	High	1156.59861	1156.59861	4268.784587	49372703194	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Hig
Dapdap East	Institutional	High	2148.49868	2148.49868	4269.42352	91728507979	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo	
	Parks & Recreation	High	2473.04895	2473.04895	8674.778534	214531519439	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo	
	Residential	High	11970.6315	11970.6315	13927.69326	1667232836227	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo	

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		L/M/H														
Dapdap West	Institutional	Moderate	75.00962	75.00962	4269.42352	3202478359	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Parks & Recreation	High	11902.25752	11902.25752	8674.778534	1032494480352	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Moderate	50367.5001	13549.3548	13927.69326	1887112574826	0.2690098729	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	High	50367.5001	36818.1453	13927.69326	5127918340243	0.7309901271	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
Francisco	Commercial	Low	106444.8569	89978.93427	8229.429042	7404752548781	0.8453103035	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Commercial	Moderate	106444.8569	7139.15161	8229.429042	587511415968	0.06706901413	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Commercial	High	106444.8569	9326.77099	8229.429042	767540000561	0.08762068233	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Institutional	Low	29768.99024	10144.79912	5860.89346	594575868113	0.3407841193	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Institutional	Moderate	29768.99024	16397.35855	5860.89346	961031714803	0.5508201124	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Institutional	High	29768.99024	3226.83257	5860.89346	189121219047	0.1083957683	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Residential	Low	558035.7889	341842.5296	8021.619267	27421306215492	0.612581731	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Moderate	558035.7889	157573.0389	8021.619267	12639909247892	0.2823708479	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	High	558035.7889	58620.22047	8021.619267	4702290899838	0.105047421	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Tourism	Low	55616.37189	38783.1522	8229.429042	3191631990672	0.6973333729	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Tourism	Moderate	55616.37189	10993.02887	8229.429042	904663510458	0.1976581445	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Tourism	High	55616.37189	5840.19082	8229.429042	480614359468	0.1050084826	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
Utilities	Low	896.36089	896.36089	5860.89346	52534756776	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo	
Guinhawa North	Commercial	Low	85997.49262	85928.22173	8229.429042	7071402034594	0.9991945011	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Mo
	Commercial	Moderate	85997.49262	69.27089	8229.429042	5700598740	0.0008054989499	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Low
	Institutional	Low	2715.22745	2715.22745	6224.456	169008137925	1	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Mo
	Residential	Low	133832.5247	130454.7996	8735.976714	11396500915053	0.9747615526	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Mo
	Residential	Moderate	133832.5247	3377.72514	8735.976714	295077281708	0.02523844743	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Low
Guinhawa South	Commercial	Low	12624.15351	12624.15351	12355.62975	1559793666390	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Institutional	Low	13719.91114	9656.42814	6562.257235	633679654237	0.7038258515	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo

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		L/M/H														
Barangay	Institutional	Moderate	13719.91114	4063.483	6562.257235	266656207151	0.2961741485	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Low	369877.8591	350257.9956	13019.87248	45603144368839	0.9469558316	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Moderate	369877.8591	19619.86344	13019.87248	2554481199899	0.05304416839	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low
	Tourism	Low	24166.28502	22466.53153	12355.62975	2775881452843	0.9296642621	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Tourism	Moderate	24166.28502	1699.75349	12355.62975	210015247836	0.07033573793	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low
Iruhin Central	Commercial	High	23795.73328	23795.73328	12355.62975	2940112699663	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Institutional	Moderate	66988.32798	4701.9443	6562.257235	308553680001	0.07019050097	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Low
	Institutional	High	66988.32798	62286.38368	6562.257235	4087392719315	0.929809499	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Mo
	Residential	Low	465714.4513	18183.64922	13019.87248	2367487939970	0.03904463169	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Mo
	Residential	Moderate	465714.4513	245709.5803	13019.87248	31991074020855	0.5275970708	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Mo
	Residential	High	465714.4513	201821.2217	13019.87248	26276865695317	0.4333582975	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Mo
	Tourism	High	755.68421	755.68421	12355.62975	93369543044	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
Iruhin East	Commercial	High	8509.84871	8509.84871	14056.49736	1196186659489	1	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	High
	Institutional	High	10689.47894	10689.47894	6045.001144	646179124221	1	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	High
	Residential	Low	66251.40381	7756.45436	9349.330571	725176558701	0.1170760756	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low
	Residential	Moderate	66251.40381	771.10082	9349.330571	72092764697	0.01163901103	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	High	66251.40381	57723.84863	9349.330571	5396793426689	0.8712849134	Yes	Yes	Yes	Yes	No	Yes	No	Yes	High
	Tourism	High	33115.66346	33115.66346	14056.49736	4654902360887	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Iruhin West	Commercial	Low	36806.11793	26878.22834	8958.381419	2407854213299	0.7302652345	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Commercial	Moderate	36806.11793	9687.58005	8958.381419	867850371126	0.2632057004	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Commercial	High	36806.11793	240.30954	8958.381419	21527845179	0.006529065099	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Institutional	Low	49649.70026	40753.80048	6766.882122	2757761638804	0.8208267173	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Institutional	Moderate	49649.70026	8260.30565	6766.882122	558965146270	0.1663717124	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Institutional	High	49649.70026	635.59413	6766.882122	43009905553	0.01280157034	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low

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		L/M/H														
	Residential	Low	541451.5939	386701.2731	8111.774504	31368335276834	0.7141936184	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Moderate	541451.5939	77331.02227	8111.774504	6272918148440	0.1428216726	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low
	Residential	High	541451.5939	77419.2986	8111.774504	6280078925270	0.142984709	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Tourism	Low	11419.05594	9159.46769	6766.882122	619810381605	0.8021212733	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Tourism	Moderate	11419.05594	2259.58825	6766.882122	152903673325	0.1978787267	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
Kaybagal Central	Commercial	Low	2692.16798	2692.16798	7349.746003	197867508495	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Institutional	Low	32309.64882	32309.64882	6276.043648	2027767662591	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Low	1191354.655	1125166.864	8416.12481	94695447556264	0.9444432512	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Moderate	1191354.655	66187.79135	8416.12481	5570447129145	0.05555674885	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low
	Tourism	Low	7477.27785	4560.69363	7349.746003	335199397765	0.6099403715	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Tourism	Moderate	7477.27785	2916.58422	7349.746003	214361532124	0.3900596285	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Utilities	Low	6092.90236	6092.90236	6276.043648	382393211569	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
Kaybagal North	Commercial	Low	9084.92572	8480.07495	8784.576769	744938694073	0.933422596	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Mo
	Commercial	Moderate	9084.92572	604.85077	8784.576769	53133580230	0.066577404	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Low
	Institutional	Low	1131.08331	1131.08331	2903.6	32842134989	1	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Mo
	Residential	Low	669995.5038	619907.0658	7611.714971	47185558929139	0.9252406356	Yes	No	Yes	Yes	No	No	Yes	Yes	Mo
	Residential	Moderate	669995.5038	50088.438	7611.714971	3812589133795	0.07475936438	Yes	No	Yes	Yes	No	No	Yes	Yes	Low
	Tourism	Low	34738.86103	34698.59756	8784.576769	3048124940513	0.9988409675	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Mo
	Tourism	Moderate	34738.86103	40.26347	8784.576769	3536975432	0.00115903253	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Low
Kaybagal South	Commercial	Low	223580.4819	221211.8549	9742.841134	21552319593280	0.9894059315	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Commercial	Moderate	223580.4819	2368.62695	9742.841134	230771560804	0.01059406854	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Institutional	Low	96345.8359	96345.8359	7886.970079	7598767249666	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Parks & Recreation	Low	83403.3944	82126.49793	9742.841134	8001454222534	0.9846901139	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Parks & Recreation	Moderate	83403.3944	1276.89647	9742.841134	124405994522	0.01530988612	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low

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		L/M/H														
	Residential	Low	550120.0526	510785.7028	10236.00167	52284033071792	0.9284986075	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Moderate	550120.0526	39191.44589	10236.00167	4011637055797	0.0712416239	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Lo
	Residential	High	550120.0526	142.90392	10236.00167	14627647638	0.0002597686074	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Lo
	Tourism	Low	50337.18932	46560.4812	9742.841134	4536313714710	0.9249718117	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Tourism	Moderate	50337.18932	3776.70812	9742.841134	367958672240	0.07502818832	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Lo
	Utilities	Low	450.45991	450.45991	7886.970079	35527638319	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
Mag-Asawang Ilat	Commercial	Low	40987.61004	35232.54004	12049.20329	4245240372795	0.8595900079	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Commercial	Moderate	40987.61004	5755.07	12049.20329	693440083642	0.1404099921	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Lo
	Institutional	Low	39842.22653	38485.28449	6171.435307	2375094435064	0.9659421132	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Institutional	Moderate	39842.22653	1356.94204	6171.435307	83742800154	0.03405788677	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Lo
	Residential	Low	340541.8062	296912.3417	8588.918399	25501558749213	0.8718822075	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Moderate	340541.8062	43629.46447	8588.918399	3747299101464	0.1281177925	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Lo
Maharlika East	Commercial	Low	54158.15269	30910.52758	10383.07625	3209463646594	0.5707456042	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Commercial	Moderate	54158.15269	22432.52432	10383.07625	2329186103991	0.4142040156	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Commercial	High	54158.15269	815.10079	10383.07625	84632536505	0.01505038022	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Institutional	Low	16120.02085	16120.02085	6436.576772	1037577517689	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Low	155377.7496	149395.9811	7269.255982	10859976291416	0.961501769	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Moderate	155377.7496	4697.5815	7269.255982	341479224217	0.03023329604	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	High	155377.7496	1284.18699	7269.255982	93350839596	0.008264934932	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Tourism	Low	20577.31251	9862.62941	10383.07625	1024044331476	0.4792962835	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Tourism	Moderate	20577.31251	10220.07478	10383.07625	1061158156780	0.4966671316	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Tourism	High	20577.31251	494.60832	10383.07625	51355558983	0.02403658494	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
Maharlika West	Commercial	Low	77192.99877	55154.46574	9416.931404	5193858204955	0.7145008824	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Commercial	Moderate	77192.99877	21750.75429	9416.931404	2048253611333	0.2817710756	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo

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		L/M/H															
	Commercial	High	77192.99877	287.77874	9416.931404	27099926541	0.00372804198	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Institutional	Low	29154.85969	28372.77586	6217.034026	1763945129202	0.9731748381	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Mo
	Institutional	Moderate	29154.85969	782.08383	6217.034026	48622417819	0.02682516185	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Mo
	Residential	Low	342566.1765	332904.8137	16300.93948	54266612193061	0.9717970906	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Mo
	Residential	Moderate	342566.1765	9661.36285	16300.93948	1574892910757	0.02820290943	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Mo
	Tourism	Low	32661.63568	18524.9434	9416.931404	1744481212600	0.567177455	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Tourism	Moderate	32661.63568	13351.91242	9416.931404	1257340433708	0.4087949713	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Tourism	High	32661.63568	784.77986	9416.931404	73902181088	0.02402757375	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
Utilities	Low	6349.95425	6349.95425	6217.034026	394778816328	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
Maitim II Central	Cemetery	Low	41717.85981	41717.85981	7871.108413	3283657973379	1	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Commercial	Low	26899.49062	26899.49062	6993.50697	1881217751295	1	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Institutional	Low	25213.60325	25213.60325	7871.108413	1984590046722	1	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Low	385606.5437	385606.5437	8044.388846	31019689794011	1	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Mo
	Tourism	Low	1650.21026	1650.21026	6993.50697	115407569546	1	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
Maitim II East	Commercial	Low	66021.28113	66021.28113	7243.13594	4782011141386	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Institutional	Low	63773.66417	63773.66417	5044.523142	3217077247638	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Mo
	Residential	Low	450430.8914	450430.8914	7121.150785	32075862960687	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Mo
	Tourism	Low	26460.40706	26460.40706	7243.13594	1916563253557	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Utilities	Low	11354.1378	11354.1378	5044.523142	572762108910	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
Maitim II West	Commercial	Low	51371.34079	51082.77726	7915.331261	4043371037456	0.9943827915	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Mo
	Commercial	Moderate	51371.34079	288.56353	7915.331261	22840759298	0.005617208458	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Low
	Institutional	Low	2978.54981	2978.54981	7944.47502	236630145619	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Mo
	Residential	Low	277397.374	276536.1219	8515.632726	23548800492718	0.9968952406	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Mo
	Residential	Moderate	277397.374	861.25211	8515.632726	73341066536	0.00310475942	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Low

Barangay	Urban Use Category	Susceptibility	Total Land Area Allocated Per Urban Land Use Category (Sq. M)	Calculated Land Area Exposed to Hazard Areas (Sq. M)	Average Construction/ Replacement Cost Per Classification	Replacement Cost	Affected Area Divided by Total Barangay Allocation	Structures Employing Resilient Desig	With access/area coverage to infrastructure related mitigation measures	Locals Are Aware and Provided Information On Hazards And Climate Change	Capacity and willingness to retrofit or relocate	Insurance Coverage	Government Investments	Available Alternative Sites/ Structures	Government Regulations on hazard mitigation zoning and structural design standards	Ris
		L/M/H														
	Tourism	Low	17962.67912	17504.82677	7915.331261	1385565025512	0.9745109097	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Tourism	Moderate	17962.67912	457.85235	7915.331261	36240530189	0.02548909029	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low
Mendez Crossing East	Commercial	Low	82639.62866	67865.11299	6753.157354	4583037868687	0.8212175453	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Commercial	Moderate	82639.62866	12671.8028	6753.157354	855746782673	0.1533380898	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Commercial	High	82639.62866	2102.71287	6753.157354	141999508814	0.02544436494	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Institutional	Low	19180.73072	19180.73072	6522.222086	1251009855361	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Residential	Low	136016.5334	125556.8462	6839.18147	8587060561884	0.9230998845	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Moderate	136016.5334	1579.65203	6839.18147	108035268920	0.01161367659	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low
	Residential	High	136016.5334	8880.03509	6839.18147	607321714371	0.06528643887	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low
Mendez Crossing West	Commercial	Low	50702.60434	50541.843	6691.215607	3381863686984	0.9968293278	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Commercial	High	50702.60434	160.76134	6691.215607	10756887872	0.003170672238	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Institutional	Low	303.82295	303.82295	8306.330709	25236538996	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Residential	Low	302482.179	295856.5352	7631.398873	22577992291133	0.9780957546	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Moderate	302482.179	5222.10374	7631.398873	398519565970	0.01726416993	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low
	Residential	High	302482.179	1403.54013	7631.398873	107109745665	0.00464007544	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
Neogan	Commercial	Low	114107.4327	81190.3516	9125.34133	7408896710654	0.7115255307	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Commercial	Moderate	114107.4327	32193.83083	9125.34133	2937796950491	0.282136142	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Commercial	High	114107.4327	723.25026	9125.34133	65999054896	0.006338327337	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low
	Institutional	Low	16355.20818	13063.76436	7808.139924	1020037000633	0.7987525574	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Institutional	Moderate	16355.20818	3291.44382	7808.139924	257000539001	0.2012474426	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Low	617794.0079	574267.092	9782.228651	56176120010878	0.929544613	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Moderate	617794.0079	43526.91591	9782.228651	4257902439125	0.07045538699	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low
	Tourism	Low	22498.16179	22498.16179	9125.34133	2053034056348	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
Utilities	Low	7239.91832	6101.26583	7808.139924	476395373171	0.8427257823	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo	

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		L/M/H														
	Utilities	Moderate	7239.91832	1138.65249	7808.139924	88907579673	0.1572742177	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low
Patutong Malaki North	Cemetery	Low	26179.84258	26179.84258	9998.109767	2617489397896	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Medium
	Institutional	Low	2273.33392	2273.33392	9998.109767	227290420685	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Medium
	Residential	Low	541590.0457	528854.1858	8065.881032	42656749457107	0.9764843169	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Medium
	Residential	Moderate	541590.0457	12735.85987	8065.881032	1027259305501	0.02351568307	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low
	Tourism	Low	13886.75526	13886.75526	6931.925261	962619495743	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Medium
Patutong Malaki South	Commercial	Low	12356.04907	12356.04907	8895.043415	1099075929128	1	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Medium
	Institutional	Low	12575.99643	12575.99643	6311.885862	793782540626	1	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Medium
	Residential	Low	879288.119	867947.0159	9234.674026	80152077634677	0.9871019489	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Medium
	Residential	Moderate	879288.119	11341.10313	9234.674026	1047313904981	0.01289805114	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Low
Sambong	Commercial	Moderate	289.66964	289.66964	10575.5971	30634294039	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Medium
	Institutional	High	1564.52491	1564.52491	3878.321012	60677298319	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Medium
	Residential	Moderate	151742.5791	246.3382	4907.734505	12089624841	0.001623395368	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low
	Residential	High	151742.5791	151496.2409	4907.734505	7435033288629	0.9983766046	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Medium
	Utilities	Moderate	64.61495	29.38575	3878.321012	1139673717	0.4547825232	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Medium
	Utilities	High	64.61495	35.2292	3878.321012	1366301466	0.5452174768	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Medium
San Jose	Commercial	Low	134624.0166	112661.9417	9924.806135	11181479304756	0.8368636192	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Medium
	Commercial	Moderate	134624.0166	6364.13538	9924.806135	631628098641	0.04727340294	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Commercial	High	134624.0166	12982.62631	9924.806135	1288500492514	0.0964361831	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Commercial	Very High	134624.0166	2615.31314	9924.806135	259564758971	0.01942679476	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Institutional	Low	124177.616	113338.7428	5214.193953	5909701873121	0.9127147583	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Medium
	Institutional	Moderate	124177.616	3712.82084	5214.193953	193593679730	0.02989927621	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Institutional	High	124177.616	7126.05239	5214.193953	371566192817	0.05738596551	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Residential	Low	656933.9223	563896.7649	12654.67624	71359309926378	0.8583766886	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Medium

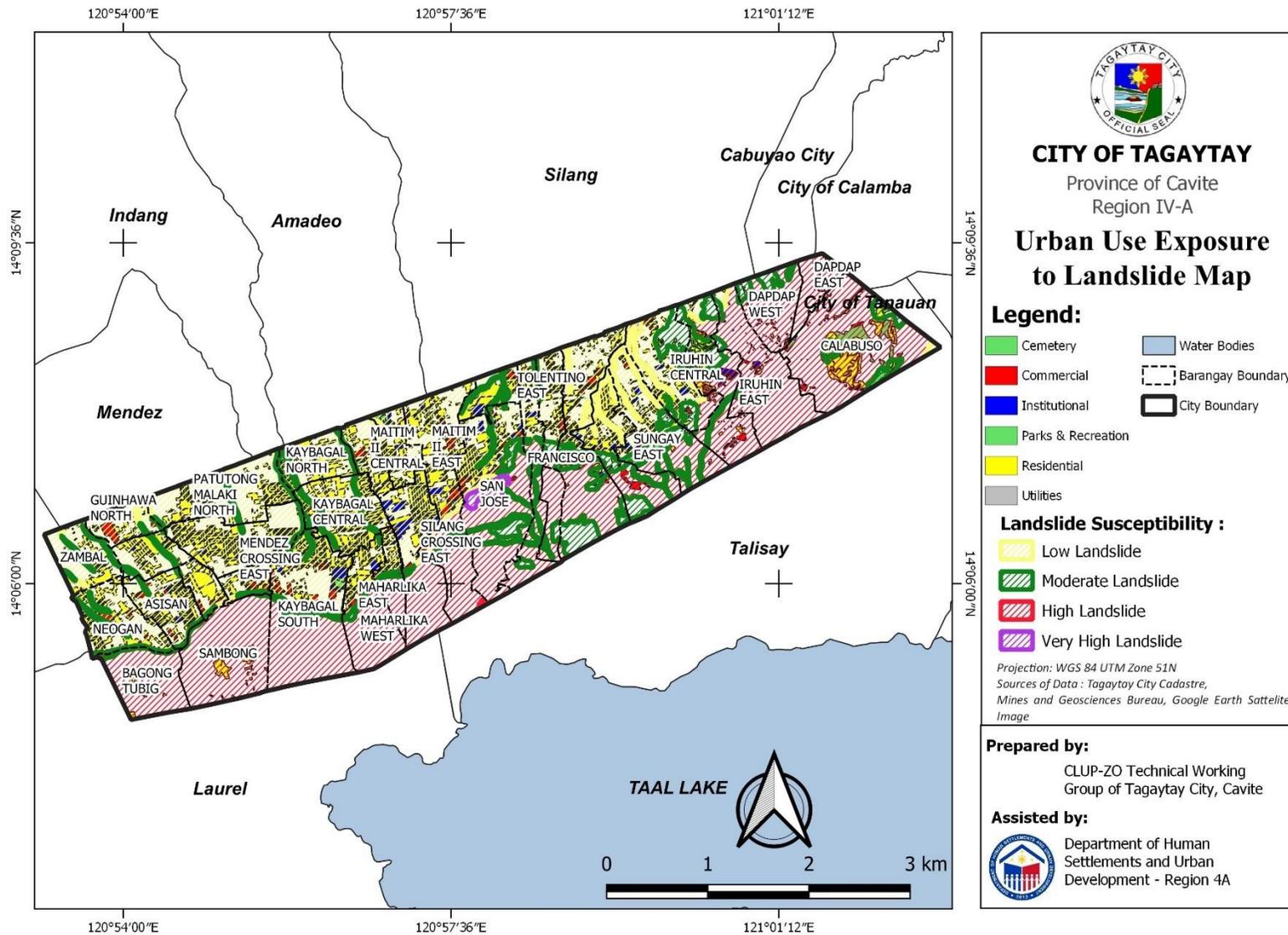
Barangay	Urban Use Category	Susceptibility	Total Land Area Allocated Per Urban Land Use Category (Sq. M)	Calculated Land Area Exposed to Hazard Areas (Sq. M)	Average Construction/ Replacement Cost Per Classification	Replacement Cost	Affected Area Divided by Total Barangay Allocation	Structures Employing Resilient Desig	With access/area coverage to infrastructure related mitigation measures	Locals Are Aware and Provided Information On Hazards And Climate Change	Capacity and willingness to retrofit or relocate	Insurance Coverage	Government Investments	Available Alternative Sites/ Structures	Government Regulations on hazard mitigation zoning and structural design standards	Ris	
		L/M/H															
	Residential	Moderate	656933.9223	66437.23979	12654.67624	8407417598419	0.1011323019	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low	
	Residential	High	656933.9223	15053.85182	12654.67624	1905016209516	0.02291532117	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low	
	Residential	Very High	656933.9223	11546.06582	12654.67624	1461117248013	0.01757568825	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Mo	
	Tourism	Low	15650.99633	13845.64367	9924.806135	1374153292406	0.8846493462	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Tourism	Moderate	15650.99633	1196.09909	9924.806135	118710515866	0.07642319152	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
	Tourism	High	15650.99633	609.25357	9924.806135	60467235694	0.03892746233	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low
Silang Crossing East	Commercial	Low	138777.9282	135375.8484	9307.108316	12599576841597	0.9754854402	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo	
	Commercial	High	138777.9282	3402.07982	9307.108316	316635253847	0.0245145598	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low	
	Institutional	Low	50879.54887	47228.76329	7052.986431	3331038266168	0.9282465026	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo	
	Institutional	High	50879.54887	3650.78558	7052.986431	257489411566	0.07175349745	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low	
	Parks & Recreation	Low	456.89342	456.89342	9307.108316	42523565488	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo	
	Residential	Low	279884.7132	274212.0247	13732.1694	37655259758610	0.9797320531	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo	
	Residential	High	279884.7132	5672.68851	13732.1694	778983195883	0.02026794691	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low	
	Tourism	Low	18239.72986	16371.17208	9307.108316	1523682718096	0.897555622	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo	
Tourism	High	18239.72986	1868.55778	9307.108316	173908696533	0.102444378	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low		
Silang Crossing West	Commercial	Low	60623.26811	32494.21269	8268.689182	2686845449496	0.5360023256	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo	
	Commercial	Moderate	60623.26811	18400.84645	8268.689182	1521508799820	0.3035277877	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low	
	Commercial	High	60623.26811	9728.20897	8268.689182	804395362711	0.1604698868	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low	
	Institutional	Low	169766.5741	169766.5741	8328.185367	14138474983005	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo	
	Residential	Low	493621.5796	493093.8284	9904.640157	48839169342677	0.9989308588	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo	
	Residential	High	493621.5796	527.75116	9904.640157	52271853322	0.001069141184	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Low	
	Tourism	Low	19231.09392	12478.13033	8268.689182	1031777812721	0.648851822	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo	
	Tourism	Moderate	19231.09392	485.20534	8268.689182	40120121459	0.0252302517	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low	
Tourism	High	19231.09392	6267.75825	8268.689182	518261448376	0.3259179263	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Low		

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		L/M/H														
Sungay East	Commercial	Low	51827.69686	41417.52952	7659.672209	3172446998230	0.7991389166	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Commercial	Moderate	51827.69686	9893.66008	7659.672209	757821931585	0.1908952294	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Lo
	Commercial	High	51827.69686	516.50726	7659.672209	39562763051	0.009965853999	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Lo
	Institutional	Low	118959.225	104227.3587	5415.683856	5644624237484	0.876160371	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Institutional	Moderate	118959.225	8045.24349	5415.683856	435704952899	0.06763026149	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Lo
	Institutional	High	118959.225	6686.62279	5415.683856	362126350979	0.05620936748	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Lo
	Parks & Recreation	Low	138904.3633	25456.31363	7659.672209	1949870180512	0.1832650395	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Lo
	Parks & Recreation	Moderate	138904.3633	80789.52953	7659.672209	6188213141060	0.581619811	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Parks & Recreation	High	138904.3633	32658.52014	7659.672209	2501535590981	0.2351151495	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Residential	Low	374543.5698	287012.5482	7407.604183	21260753527330	0.7662994946	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Moderate	374543.5698	34151.01748	7407.604183	2529772199256	0.09118035987	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Lo
	Residential	High	374543.5698	53380.00408	7407.604183	3954179414913	0.1425201455	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Tourism	Low	17729.56801	7182.29211	7659.672209	550140032707	0.4051024879	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Tourism	Moderate	17729.56801	10547.2759	7659.672209	807886760902	0.5948975121	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
Sungay West	Commercial	Low	182619.8661	23546.30542	7524.959757	1771850007161	0.1289361663	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Lo
	Commercial	Moderate	182619.8661	8373.35506	7524.959757	630091598592	0.04585128244	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Lo
	Commercial	High	182619.8661	150700.2056	7524.959757	11340129828418	0.8252125513	Yes	Yes	Yes	Yes	No	Yes	Yes	Mo	
	Institutional	Low	30540.64009	30540.64009	2279.891773	696293540972	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Parks & Recreation	Low	100.28646	100.28646	7524.959757	7546515757	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Low	601919.7432	472415.0036	8638.348674	40808855200991	0.7848471644	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
	Residential	Moderate	601919.7432	28250.61612	8638.348674	2440386723051	0.04693419088	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Lo
	Residential	High	601919.7432	101254.1234	8638.348674	8746684228008	0.1682186447	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Lo
	Tourism	Low	5821.52476	3680.52672	7524.959757	276958154533	0.6322272724	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo
Tourism	Moderate	5821.52476	2140.99804	7524.959757	161109240912	0.3677727276	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Mo	

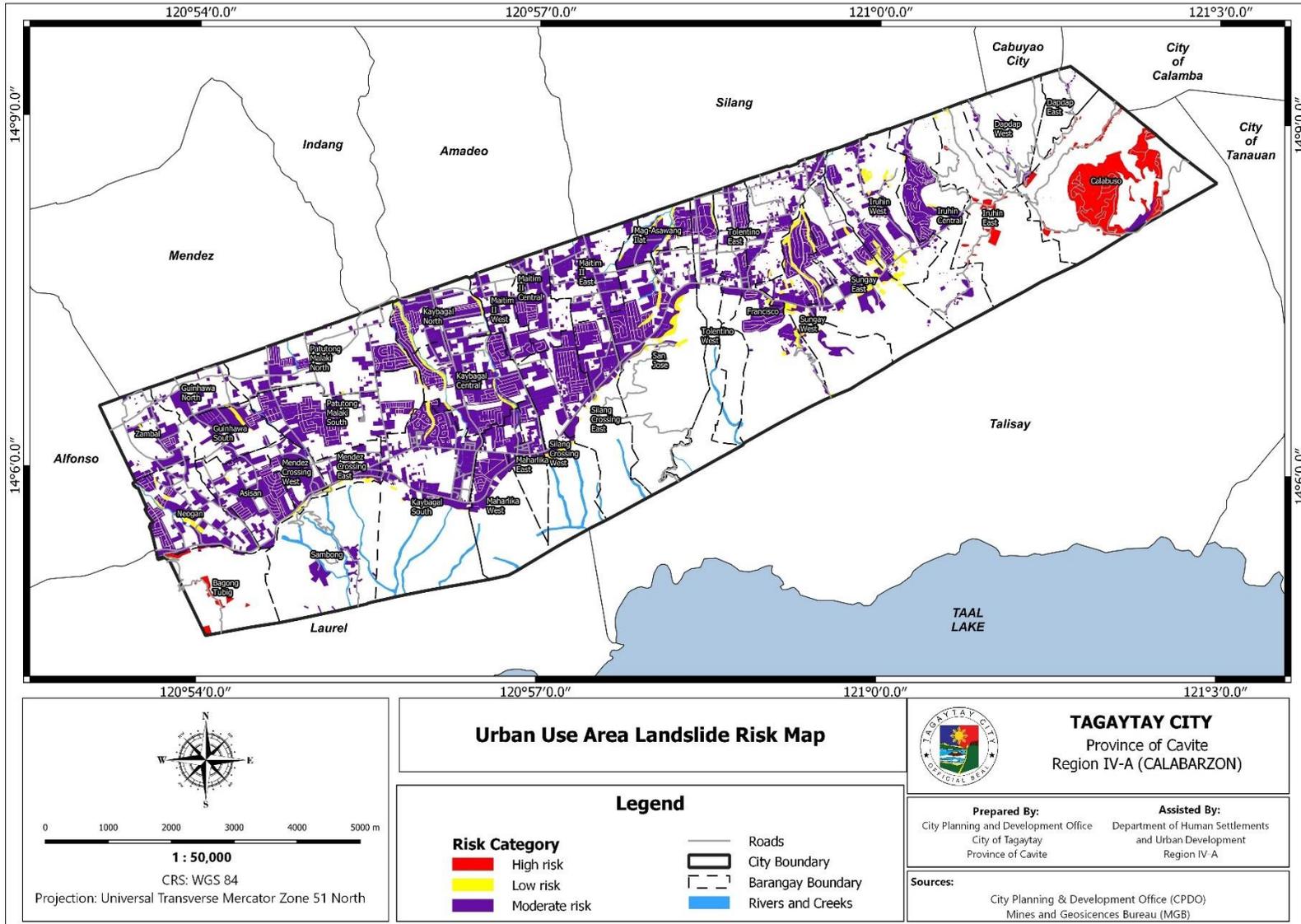
Barangay	Urban Use Category	Susceptibility	Total Land Area Allocated Per Urban Land Use Category (Sq. M)	Calculated Land Area Exposed to Hazard Areas (Sq. M)	Average Construction/ Replacement Cost Per Classification	Replacement Cost	Affected Area Divided by Total Barangay Allocation	Structures Employing Resilient Desig	With access/area coverage to infrastructure related mitigation measures	Locals Are Aware and Provided Information On Hazards And Climate Change	Capacity and willingness to retrofit or relocate	Insurance Coverage	Government Investments	Available Alternative Sites/ Structures	Government Regulations on hazard mitigation zoning and structural design standards	Ris	Cat
		L/M/H															
	Utilities	Low	289.96862	289.96862	2279.891773	6610970713	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Mo
Tolentino East	Commercial	Low	26712.57189	26712.57189	8260.316192	2206542901103	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Institutional	Low	3310.39854	3033.00017	5273.624633	159949044089	0.9162039354	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Institutional	Moderate	3310.39854	277.39837	5273.624633	14628948772	0.08379606463	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Lo
	Residential	Low	293342.1756	292755.889	7596.107233	22238051256305	0.9980013559	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Mo
	Residential	Moderate	293342.1756	586.28661	7596.107233	44534959587	0.001998644105	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Lo
	Tourism	Low	26945.72739	26945.72739	8260.316192	2225802282622	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
Tolentino West	Commercial	Low	15253.79169	15253.79169	8570.941541	1307393568536	1	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Institutional	Low	25026.71278	24828.45214	7045.113466	1749192625171	0.9920780391	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Mo
	Institutional	Moderate	25026.71278	198.26064	7045.113466	13967687047	0.007921960896	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Lo
	Residential	Low	235200.2966	224092.1385	7984.821472	17893357190816	0.9527714964	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Mo
	Residential	Moderate	235200.2966	11108.15806	7984.821472	886966589899	0.04722850363	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Lo
	Tourism	Low	350.0508	350.0508	8570.941541	30002649432	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Mo
Zambal	Institutional	Low	144.33016	144.33016	3820	5513412112	1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Mo
	Residential	Low	315297.9227	311414.7181	8514.423655	26515168420074	0.9876840144	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Mo
	Residential	Moderate	315297.9227	3883.20467	8514.423655	330632497000	0.01231598558	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Lo

Source: CDRA Results (2023)

Map 13. Urban Use Areas Exposure to Landslide Map



Map 14. Urban Use Area Landslide Risk Map



Chapter 3. POPULATION AND SOCIAL PROFILE

3.1. Demography

3.1.1 Population by Age Group and Gender

The household population of Tagaytay is 69,603 in 2015 and 83,779 in 2020. The largest age group was the 5-9 age group with a total population of 8,010 composed of 4,226 males and 3,784 females. While the smallest age group was the 80 years and over with a total of 597 of which 211 were males and 386 were females.

From the household population 51.24% (42,928) were males and 48.76% (40,851) were females. A total of 1,624 live births were registered wherein 51.66% (839) were males and 48.34% (785) were females.

Table 11. Household Population Distribution by Age Group and Gender, 2015 and 2020

AGE GROUP	2015			2020		
	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL
Under 1	720	735	1455	839	785	1,624
1-4	3028	2722	5,750	3,356	3,139	6,495
5-9	3,653	3,444	7,097	4,226	3,784	8,010
10-14	3,439	3,359	6,798	4,066	3,789	7,855
15-19	3,460	3,378	6,838	3,562	3,551	7,113
20-24	3,352	3280	6,632	3,903	3,594	7,497
25-29	3129	3107	6,236	3,782	3,498	7,280
30-34	2936	2726	5,662	3,581	3,236	6,817
35-39	2577	2521	5,098	3,390	3,178	6,568
40-44	2145	2074	4,219	3,049	2,811	5,860
45-49	1960	1853	3,813	2,360	2,215	4,575
50-54	1462	1369	2831	2,107	2,055	4,162
55-59	1212	1178	2390	1,610	1,588	3,198
60-64	867	981	1848	1,237	1,301	2,538
65-69	562	702	1264	841	955	1,796
70-74	353	389	742	527	639	1,166
75-79	194	274	468	281	347	628
80 and over	154	308	462	211	386	597
Total	35,203	34,400	69,603	42,928	40,851	83,779

Source: PSA 2015 and 2020

The figure below shows the city's household population per age and sex for year 2015 and 2020. It shows that for the past five years before 2020, the population of Tagaytay depict that population of people in younger age groups has a larger percentage in age groups.

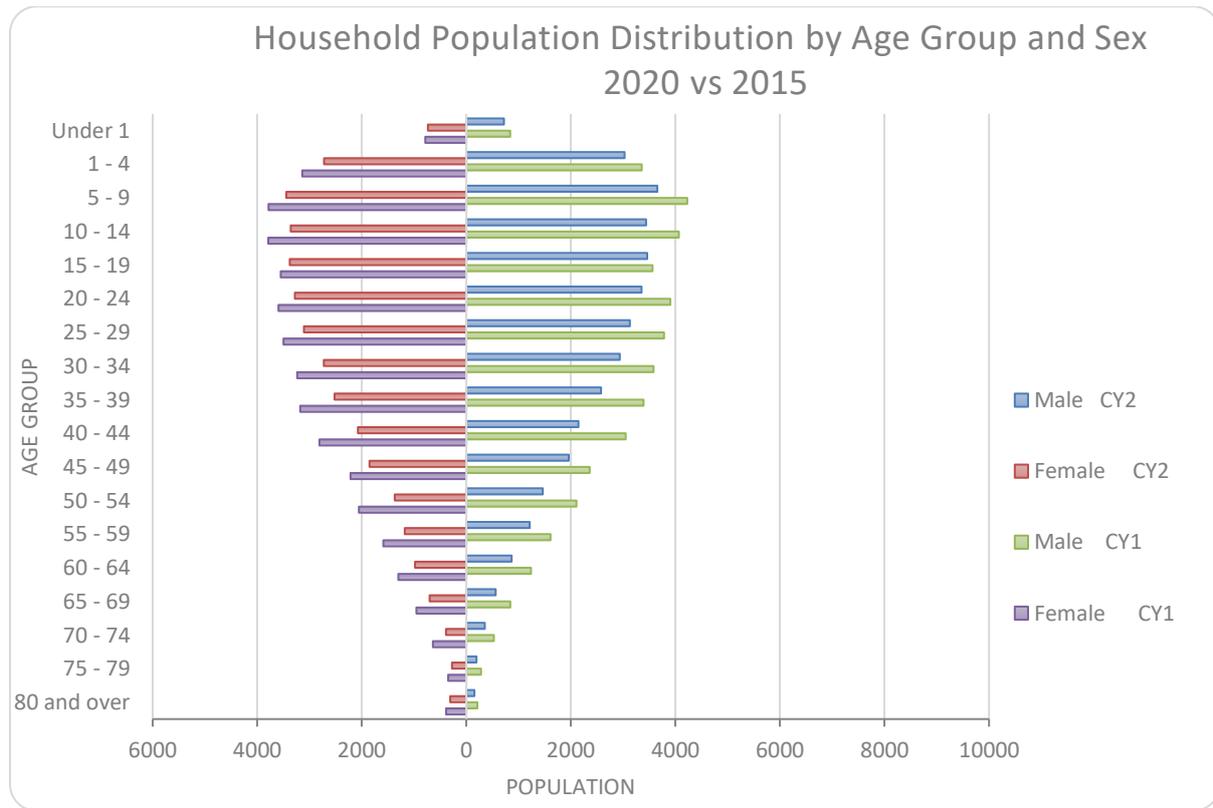


Figure 3. Household Population Distribution by Age Group and Sex

Note: CY2 is 2020; CY1 is 2015

Age Dependency Ratio

From the household population of 83, 779 in 2020, young dependents (aged 0-14 years old) constitute 23, 984 or 29.19% of the total household population, while old dependents (aged 65 years old and above) is only 4, 187 or 5.10% of the total household population. Therefore, the working group or those 15-64 years old comprises of about 55, 608 or 67.69%.

Table 9 shows that the overall dependency ratio from 2020 is 51.16. This indicates that for every 100 persons in the working age group, there are about 51 dependents; that is 43 young dependents and eight (8) old-aged dependents.

Table 12. Comparative Age and Economic Dependency Ratio

Age Group	2015	Percentage	2020	Percentage
Youth-Age Group (Under 1-14 yo)	21,100	30.31 %	23, 984	29.19
Working Age Group (15-64yo)	45,567	65.47%	55, 608	67.69
Old-Age Group (65 plus yo)	2,936	4.22%	4,187	5.10
TOTAL	69,603	100%	83, 779	100

Source: PSA 2015 and 2020

Table 13. Population Composition by School-Age, Working-Age, Dependent-Age Group and Sex, 2020

Age Group	Both Sexes	Male		Female		Sex Ratio
		No.	%	No.	%	
School going population						
Pre-school (3-6)	6,449	3,368	52%	3,081	48%	1.09
Elementary (7-12)	9,519	4,543	48%	4,976	52%	0.91
Secondary (13-18)	8,833	4,476	51%	4,357	49%	1.03
Tertiary (19-22)	5,920	3,054	52%	2,866	48%	1.07
Working Age (15-64)	55,608	28,581	51%	27,027	49%	1.06
Labor Force (15 and over)	59,795	30,441	51%	29,354	49%	1.04
Dependent Population						
Young (0-14)	23,984	12,487	52%	11,497	48%	1.09
Old (65-over)	4,187	1,860	44%	2,327	56%	0.80

Source: Computed based on latest NSO/PSA data on household population by age group (PSA 2020)

The city has a total of 30, 721 school-going age of household population, of which, composes of pre-school, elementary, secondary and tertiary. For residents, youth and elderly who have no time for formal education, the City Government in coordination with the Department of Education-Bureau of Alternative Learning System (BALS) conduct special classes in the barangay. The City Government conducted Advocacy Socialization and Mobilization in various barangays to determine the number of school leavers. The ALS coordinators conducted massive information campaign. Department of Education-Bureau of Alternative Learning System (BALS) provides an alternative pathways by which out of school youth could earn/obtain educational qualification comparable to the formal education through the Alternative Learning System (ALS).

The working age is 15-64 years old which has a total of 55, 608, where 28, 581 are males and 227, 027 are females. While 28, 071 of the total household populations were dependents, composing of 14, 347 males and 13, 724 females.

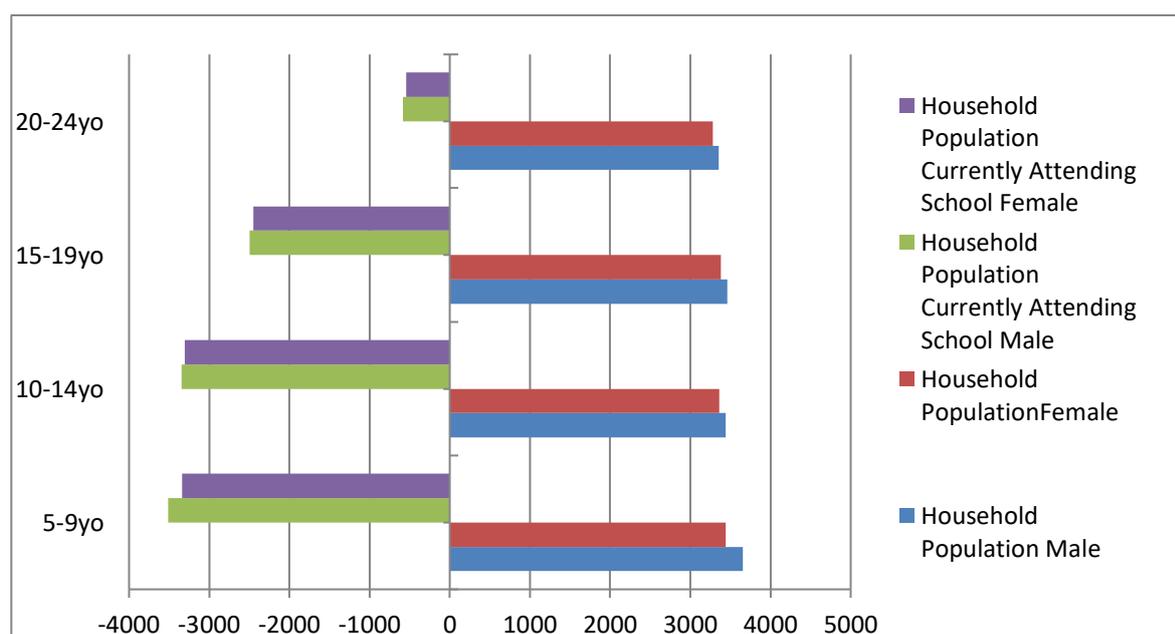


Figure 4. School- Age Population

Most of the residents of Tagaytay (93.58%) speak the Tagalog language. The second most used dialect in Tagaytay is Bicolano, which is spoken by 1.52% of the residents. The following table shows the various languages being used by the residents of Tagaytay and the respective percentage of the population who use them:

3.1.2 Labor Force and Employment

The city's total labor force is 47,014 covering an age bracket of 15-65 years old. The population for Under 15 years old is 28,353; and for over 65 is 3,033. The ratio of children to adults is 1:2. The Employment Rate is 97%, unemployment Rate is 3%. The high percentage of employment is due to the City Government's effort in providing employment opportunities to its constituents. One of the major factors of which is the passage an ordinance (City Ordinance No. 2002-199) - an ordinance which mandates all business establishment owners to employ Tagaytay residents 50% during construction and 60% during business operation.

The Human Resource and Management Office also serves as the PESO of the City that conducts regular Job Fairs.

Table 14. Major Occupation Group Disaggregated by Sex, 2015

Major Occupation Group	Male	Female	Total
Managers	894	1516	2410
Professionals	705	1307	2012
Technicians and associate professional	1363	1151	2514
Clerical support workers	787	1266	2053
Service and sales workers	4829	3590	8419
Skilled agricultural, forestry, and fishery workers	1195	145	1340
Craft and related trades workers	3070	229	3299
Plant and machine operators and assemblers	2880	167	3047
Elementary occupation	2925	1513	4438
Armed forces occupations	55	5	60
Other occupation, not elsewhere classified	-	-	-
Not reported	18	17	35

Source: PSA 2015

3.1.3 Population Size and Growth Rate

The City of Tagaytay started to double its population from 1995 to 2000. The table below shows that only less than 1,000 people were added from the censal years of 2007 to 2010.

Table 15. Population of Tagaytay City from 1960-2020

Year	Population
1960 Feb15	7,203
1970 May6	10,907
1975 May1	13,388
1980 May1	16,322
1990 May1	23,739
1995 Sep1	29,419
2000 May1	45,287
2007 Aug1	61,623

Year	Population
2010 May 1	62,030
2015 Aug1	71,181
2020 May 1	85,330

Source: Philippine Statistics Authority 2015

As per 2020 PSA report, the city’s total population is 85,330 with a Population Growth Rate (PGR) of 3.89%. Its night time population is the same with its daytime population since the city does not have any university or industrial park that encourages a different situation. Since Tagaytay is a major tourist destination, population doubles on weekends and holidays due to influx of tourists and visitors. Household population of the City is 83, 779 in 2020.

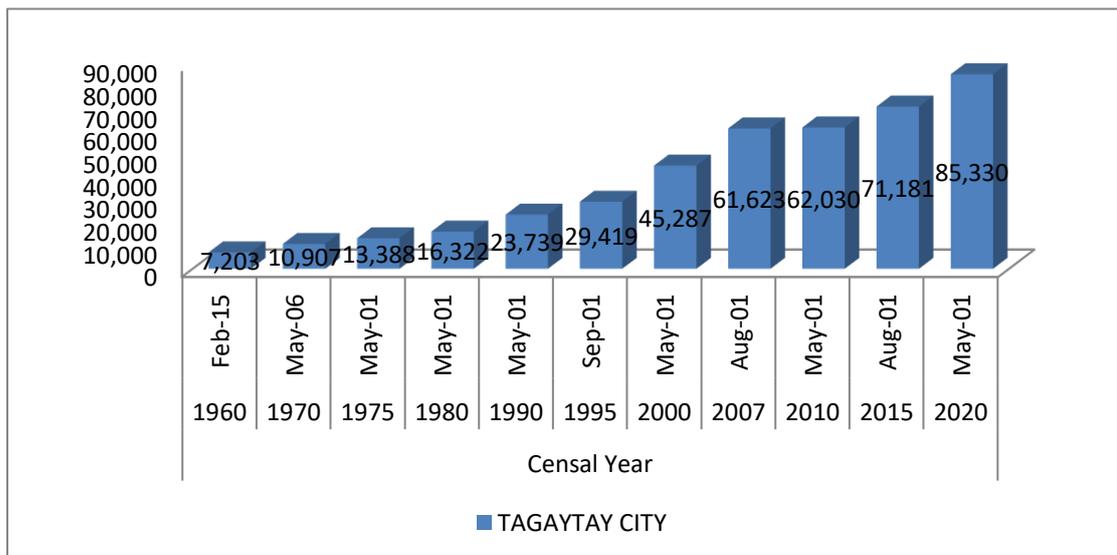


Figure 5. Population of Tagaytay City from 1960-2020

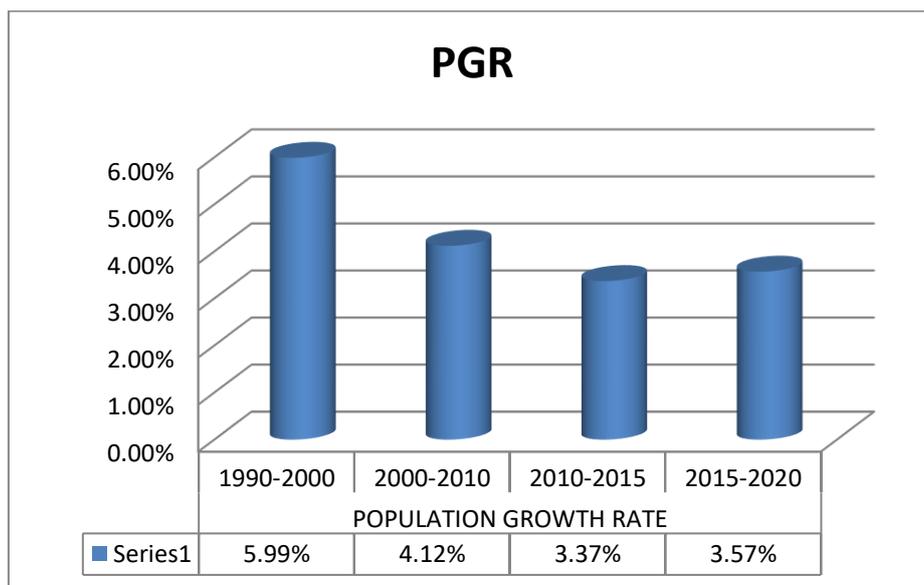


Figure 6. Population growth rate from 1990 to 2020

As shown in the table below, among the 29 urban barangays, Barangay Kaybagal South has the highest population totaled to 7220 or 8.46% of the total population. This can be accounted for its large land area, and to the emerging developments of infrastructure projects and other facilities.

On the other hand, in the rural barangays, Guinhawa North has the lowest population totaling to 625 only, representing 0.73% of the total.

Table 16. Population per Barangay (2020)

Barangay	Population
Asisan	2242
Bagong Tubig	879
Calabuso (Calabuso South & North)	1029
Dapdap East	981
Dapdap West	991
Francisco (San Francisco)	3502
Guinhawa North	625
Guinhawa South	1538
Iruhin East	1397
Iruhin Central	1122
Iruhin West	3409
Kaybagal Central	5113
Kaybagal North	3595
Kaybagal South (Pob.)	7220
Mag-Asawang Ilat	1605
Maharlika East	1063
Maharlika West	1179
Maitim 2nd Central	1536
Maitim 2nd East	1572
Maitim 2nd West	883
Mendez Crossing East	3335
Mendez Crossing West	2638
Neogan	3364
Patutong Malaki North	3043
Patutong Malaki South	4229
Sambong	1294
San Jose	6776
Silang Crossing East	1608
Silang Crossing West	2483
Sungay East	4686
Sungay West	4897
Tolentino East	2243
Tolentino West	1441

Zambal	1812
Total	85330

Source: Philippine Statistics Authority (2020)

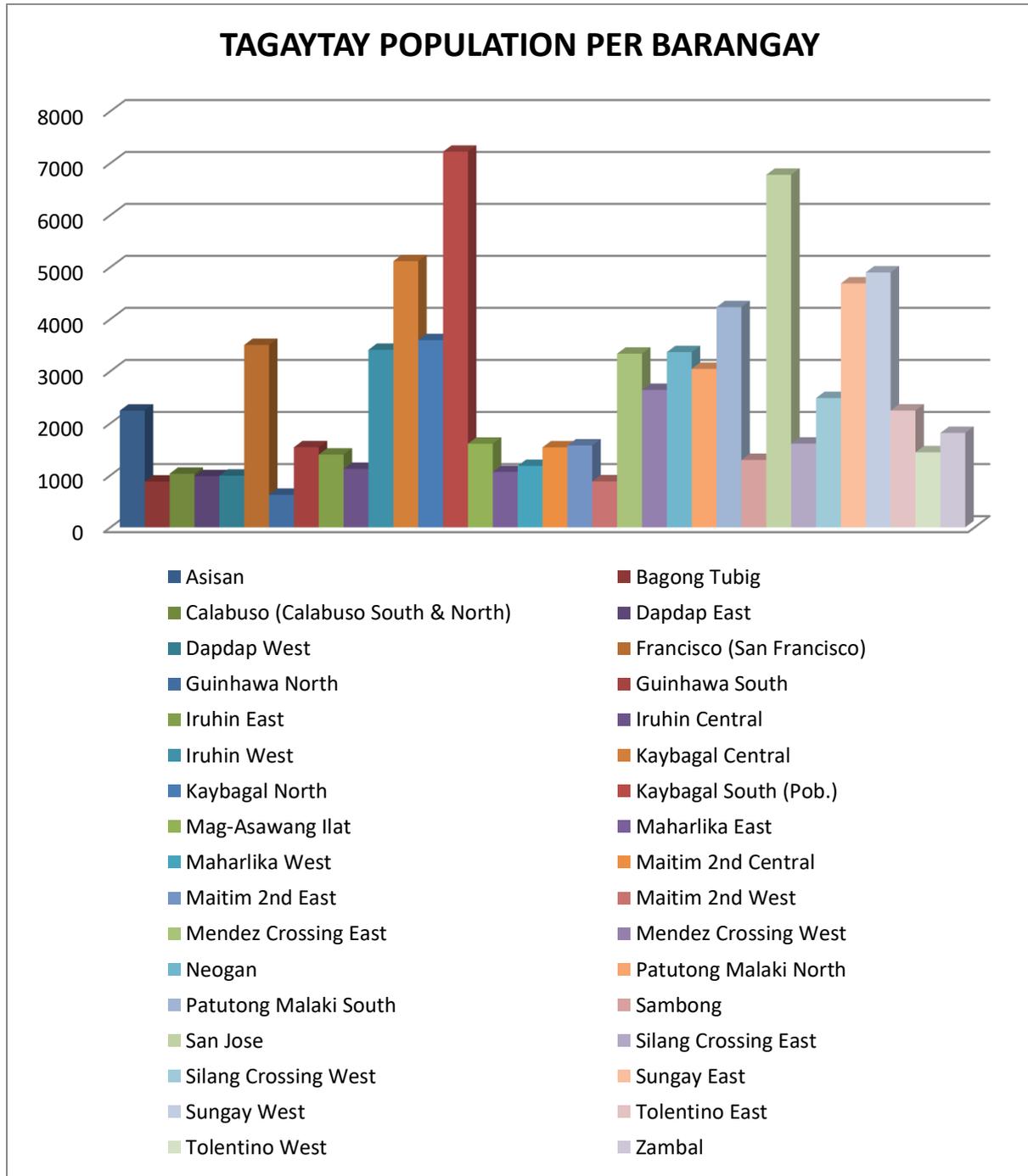


Figure 7. Total Population per Barangay (2020)

3.1.4 Population Projection

Using the PSA 2020 population (85, 330) and latest population growth rate (3.89%), projection of population is given in Table 15 until 2032. After 12 years from 2020, the population will reach to about 134, 892 people in 2032.

Table 17. Population Projection (2020-2032)

Barangay	Population							
	2020	2021	2022	2023	2024	2025	2030	2032
TOTAL	85330	88649	92098	95680	99402	103269	124980	134892
Asisan	2242	2329	2420	2514	2612	2713	3284	3544
Bagong Tubig	879	913	949	986	1024	1064	1287	1390
Dapdap West	991	1030	1070	1111	1154	1199	1451	1567
Francisco (San Francisco)	3502	3638	3780	3927	4080	4238	5129	5536
Guinhawa South	1538	1598	1660	1725	1792	1861	2253	2431
Iruhin West	3409	3542	3679	3822	3971	4126	4993	5389
Calabuso (Calabuso South & North)	1029	1069	1111	1154	1199	1245	1507	1627
Kaybagal South (Pob.)	7220	7501	7793	8096	8411	8738	10575	11414
Mag-Asawang Ilat	1605	1667	1732	1800	1870	1942	2351	2537
Maharlika West	1179	1225	1273	1322	1373	1427	1727	1864
Maitim 2nd East	1572	1633	1697	1763	1831	1902	2302	2485
Mendez Crossing West	2638	2741	2847	2958	3073	3193	3864	4170
Neogan	3364	3495	3631	3772	3919	4071	4927	5318
Patutong Malaki South	4229	4393	4564	4742	4926	5118	6194	6685
Sambong	1294	1344	1397	1451	1507	1566	1895	2046
San Jose	6776	7040	7313	7598	7893	8201	9925	10712
Silang Junction South	1608	1671	1736	1803	1873	1946	2355	2542
Sungay South	4686	4868	5058	5254	5459	5671	6863	7408
Tolentino West	1441	1497	1555	1616	1679	1744	2111	2278
Zambal	1812	1882	1956	2032	2111	2193	2654	2864
Iruhin East	1122	1166	1211	1258	1307	1358	1643	1774
Kaybagal North	3595	3735	3880	4031	4188	4351	5265	5683
Maitim 2nd West	883	917	953	990	1029	1069	1293	1396
Dapdap East	981	1019	1059	1100	1143	1187	1437	1551
Guinhawa North	625	649	675	701	728	756	915	988

Barangay	Population							
	2020	2021	2022	2023	2024	2025	2030	2032
Iruhin South	1397	1451	1508	1566	1627	1691	2046	2208
Kaybagal East	5113	5312	5519	5733	5956	6188	7489	8083
Maharlika East	1063	1104	1147	1192	1238	1286	1557	1680
Maitim 2nd Central	1536	1596	1658	1722	1789	1859	2250	2428
Mendez Crossing East	3335	3465	3600	3740	3885	4036	4885	5272
Patutong Malaki North	3043	3161	3284	3412	3545	3683	4457	4810
Silang Junction North	2483	2580	2680	2784	2892	3005	3637	3925
Sungay North	4897	5087	5285	5491	5705	5927	7172	7741
Tolentino East	2243	2330	2421	2515	2613	2715	3285	3546

Source: Projected from PSA 2020 using geometric method

3.1.5 Household Distribution

Among the 34 barangays of this city, Kaybagal Central has the greatest number of households (1,568 households). This can be accounted for the housing projects, and to the emerging developments of infrastructure projects and other facilities.

On the other hand, in the rural barangays, Bagong Tubig has lowest number of households (208 households). This can be attributed to its location, topographic condition, inadequate infrastructure and poor transportation network.

Table 18. Household Distribution, 2020

Barangay	Population	Number of Household
Asisan	2242	612
Bagong Tubig	879	208
Calabuso	1029	250
Dapdap East	981	210
Dapdap West	991	303
Fancisco	3502	1122
Guinhawa North	625	247
Guinhawa South	1538	477
Iruhin Central	1397	480
Iruhin East	1122	277
Iruhin West	3409	779
Kaybagal Central	5113	1568
Kaybagal North	3595	790
Kaybagal South	7220	1460
Mag-asawang Ilat	1605	488
Maharlika East	1063	392
Maharlika West	1179	356
Maitim 2nd Central	1536	375
Maitim 2nd East	1572	813
Maitim 2nd West	883	260
Mendez Crossing East	3335	798
Mendez Crossing West	2638	695
Neogan	3364	778
Patutong Malaki North	3043	535
Patutong Malaki South	4229	1042
Mendez Crossing East	3335	798
Mendez Crossing West	2638	695
Neogan	3364	778
Patutong Malaki North	3043	535
Patutong Malaki South	4229	1042
Sambong	1294	288
San Jose	6776	1317
Silang Crossing East	1608	530
Silang Crossing West	2483	378
Sungay East	4686	1077
Sungay West	4897	950
Tolentino East	2243	567
Tolentino West	1441	338
Zambal	1812	583
Total	85,330	21,343

Source: PSA 2020

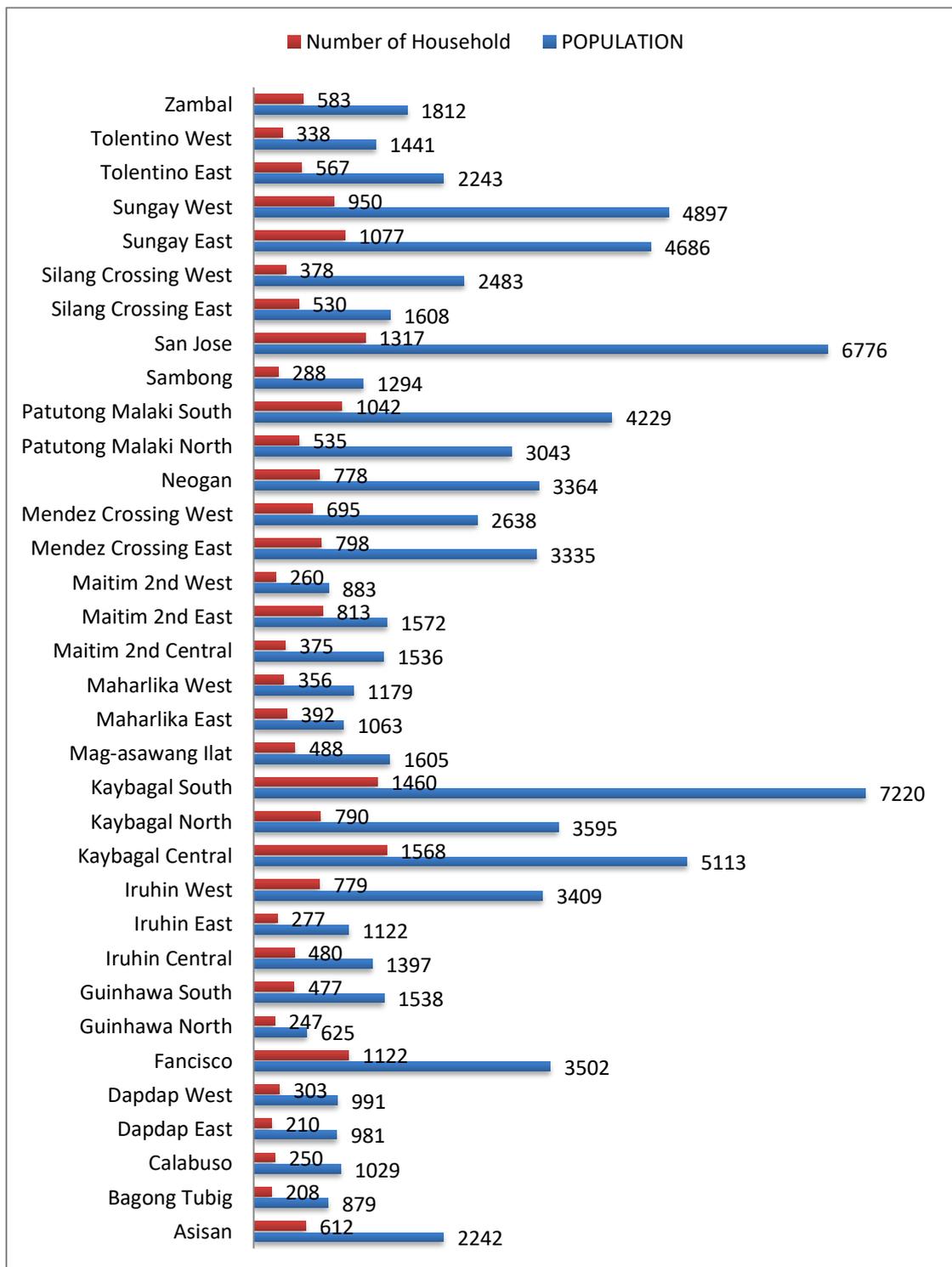


Figure 8. Number of Population and Household per Barangay

3.1.6 Population Density

All barangays in Tagaytay City cater residential functions to the locals and transient. From the 34 barangays compiled for analyzing the exposure of Tagaytay's population, Barangay Mendez Crossing East was found to be the most densely populated (60 persons/ha) followed by Mendez Crossing West (45 persons/ha). As centers of trade and commerce, urban barangays have higher population density than the rural ones.

Table 19. Population Density, 2020

Barangay	Population	Land area (hectares)	Population Density
Asisan	2242	133.43	16.80
Bagong Tubig	879	173.75	5.06
Calabuso	1029	446.38	2.31
Dapdap East	981	75.09	13.07
Dapdap West	991	148.1	6.69
Fancisco	3502	358	9.78
Guinhawa North	625	78.93	7.92
Guinhawa South	1538	94.11	16.34
Iruhin Central	1397	253.14	5.51
Iruhin East	1122	297.29	3.77
Iruhin West	3409	240.71	14.16
Kaybagal Central	5113	214	23.89
Kaybagal North	3595	120.33	29.88
Kaybagal South	7220	404.16	17.86
Mag-asawang Ilat	1605	73.11	21.95
Maharlika East	1063	73.82	14.40
Maharlika West	1179	194.55	6.06
Maitim 2nd Central	1536	96.9	15.85
Maitim 2nd East	1572	141.31	11.12
Maitim 2nd West	883	76.29	11.57
Mendez Crossing East	3335	55.4	60.20
Mendez Crossing West	2638	58.37	45.19
Neogan	3364	165.43	20.33
Patutong Malaki North	3043	258.02	11.79
Patutong Malaki South	4229	237.08	17.84
Sambong	1294	301.24	4.30
San Jose	6776	418.9	16.18
Silang Crossing East	1608	197.23	8.15
Silang Crossing West	2483	248.91	9.98
Sungay East	4686	280.08	16.73
Sungay West	4897	202.43	24.19

Barangay	Population	Land area (hectares)	Population Density
Tolentino East	2243	91.49	24.52
Tolentino West	1441	164.13	8.78
Zambal	1812	127.89	14.17
Total	85,330	6,500	

Source: PSA and Tagaytay City Planning and Development Office

3.1.7 Urban-Rural Distribution

The city of Tagaytay is predominantly urban. Only five (5) out of 34 barangays are considered rural, namely: Bagong Tubig, Dapdap East, Dapdap West, Guinhawa North, and Sambong. The average household size for the City of Tagaytay is four (4) person per household.

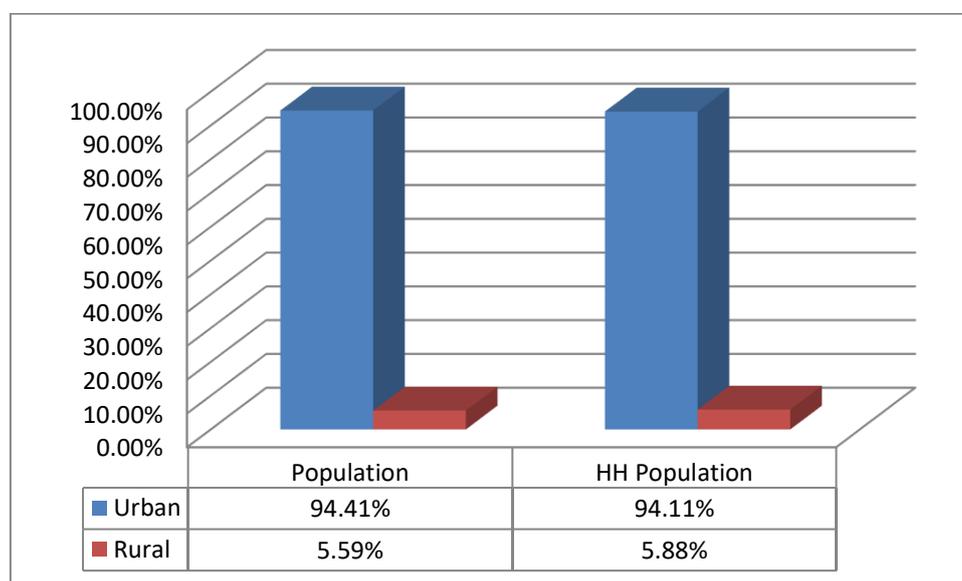


Figure 9. Tempo of urbanization

In 2020, there were 80,560 persons or 94.41% of the total city’s population are in the urban area while the remaining 4770 or 5.59% are rural dwellers. The City of Tagaytay has no defined Central Business District. However, commercial activities tend to operate at the major crossroads and ridge areas of the city. As centers of trade and commerce, urban barangays have higher population and most populous barangays are those that are directly along the main highway.

Table 20. Urban-Rural Distribution

Barangay	Population	Land Area (has)	Number of Household	Average Household Size
Rural				
Bagong Tubig	879	173.75	208	4
Dapdap East	981	75.09	210	5
Dapdap West	991	148.1	303	3

Barangay	Population	Land Area (has)	Number of Household	Average Household Size
Guinhawa North	625	78.93	247	3
Sambong	1294	301.24	288	5
<i>Urban</i>				
Asisan	2242	133.43	612	4
Calabuso	1029	446.38	250	4
Fancisco	3502	358	1122	3
Guinhawa South	1538	94.11	477	3
Iruhin Central	1397	253.14	480	3
Iruhin East	1122	297.29	277	4
Iruhin West	3409	240.71	779	4
Kaybagal Central	5113	214	1568	3
Kaybagal North	3595	120.33	790	5
Kaybagal South	7220	404.16	1460	5
Mag-asawang Ilat	1605	73.11	488	3
Maharlika East	1063	73.82	392	3
Maharlika West	1179	194.55	356	3
Maitim 2nd Central	1536	96.9	375	4
Maitim 2nd East	1572	141.31	813	2
Maitim 2nd West	883	76.29	260	3
Mendez Crossing East	3335	55.4	798	4
Mendez Crossing West	2638	58.37	695	4
Neogan	3364	165.43	778	4
Patutong Malaki North	3043	258.02	535	6
Patutong Malaki South	4229	237.08	1042	4
San Jose	6776	418.9	1317	5
Silang Crossing East	1608	197.23	530	3
Silang Crossing West	2483	248.91	378	7
Sungay East	4686	280.08	1077	4
Sungay West	4897	202.43	950	5
Tolentino East	2243	91.49	567	4
Tolentino West	1441	164.13	338	4
Zambal	1812	127.89	583	3
Total	85,330	6,500	21,343	4 person per HH per barangay

Source: Philippines Statistics Authority (2020)

3.1.8 Other Population Data

Religious Affiliation

The majority (95.36%) of the Tagaytayeños are Roman Catholic representing 95.36% of the total population while 3.37% belong to the Iglesia ni Cristo. The following table indicates the religious affiliations of the residents of Tagaytay and the corresponding percentage of the population who belong to the said religions:

Table 21. Religious Affiliations in Tagaytay City, 2020

RELIGION	PERCENTAGE
Roman Catholic	95.36%
Iglesia ni Cristo	3.37%
Protestant	1.07%
Others	0.20%

Source: City Planning and Development Office

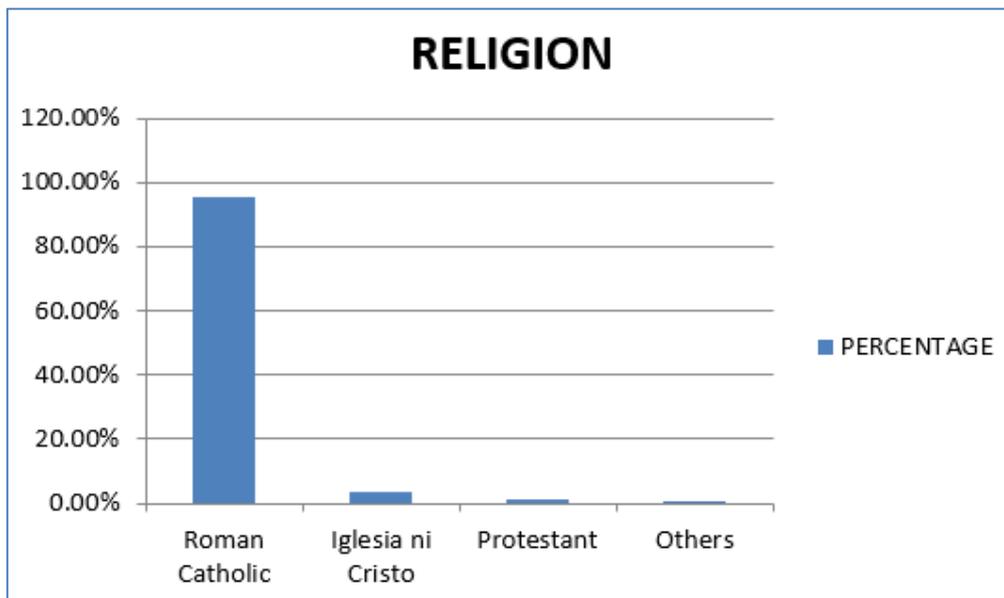


Figure 10. Religious Affiliations

Dialects

According to the data gathered, the dialects mostly used in the City is Tagalog (93.58%), followed by Bicolano (1.52%), as indicated in the table below.

Table 22. Dialects used by citizens in Tagaytay City

Dialect	Percentage
Tagalog	93.58
Bicolano	1.52
Ilocano	1.28
Cebuano	1.00
Waray	0.60
Others	1.74
Not Stated	0.28

Source: City Planning and Development Office

3.1.9 Population Exposure and Risk to Hazards

The population used for the municipality in the analysis is the results of PSA 2020 census. The sensitivity characteristics observed in the population include percentage of informal settlers, those living in dwelling units made from light materials or salvageable materials, young and old dependents, persons with disabilities, and those below poverty threshold. On the other hand, the adaptive capacities that were analyzed were the access to infrastructure-related mitigation measures, financial assistance, information, capacity and willingness to retrofit or relocate and presence of government investments.

Exposure to Hazards

The city’s susceptibility to landslide shows that the total affected residential areas are about 1, 385.30 hectares out of 3, 186.26 hectares total residential area of about 43.48 percent. Areas with very high susceptibility to landslide are only 1.15 hectares with approximately 119 persons. Highly susceptible areas are about 147.39 hectares which has an estimate of about 9, 058 persons while moderately susceptible areas comprise about 112.53 hectares or 6,061 persons. The rest are under low susceptibility with 1, 124.22 hectares, estimated with 70, 095 persons.

Risk to Hazards

Based from the scoring activity from the data derived from exposure database indicating the extent of effect of hazards, presence of sensitivity and adaptation, the results show that about 84.19 hectares are at high risk to landslide, estimating about 2, 980 people to be affected at Barangay Calabuso, Bagong Tubig and Sambong. On the other hand, a total of 119.97 hectares with 7, 459 people are at moderate risk to landslide, where all barangays are part of except for Bagong Tubig, Calabuso, Guinhawa South, Iruhin Central, Maharlika East, Maitim II Central, Mendez Crossing East, Patutong Malaki North, Sambong and Silang Crossing West. The rest (74, 894 people) are at low risk to landslide.

Table 23. Population Exposure and Risk Database

Barangay	Susceptibility	Total Population	Residential Area	Affected Residential Area (In Ha)	Affected Res Area X Population Density	Affected Pop'n	Percentage of Informal Settlers	Percentage HH Living in Light Materials	Percentage Exposed Young and Old Dependents	Percentage of Exposed PWDs	Percentage Living Below Poverty Threshold	Yes/ No	Yes/No	Yes / No	Yes / No	Capacity Of Government to Make Investments In CCA-DRR	Risk
Asisan	Low	2,242	55.337	40.52	55.014	2229	2%	23.74%	16%	3.64%	10.34%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	2,242	55.337	40.52	0.323	13	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
Bagong Tubig	High	879	6.21	141.55	6.21	879	0%	6.89%	14%	2.16%	3.09%	Yes	Yes	Yes	Yes	Yes	High

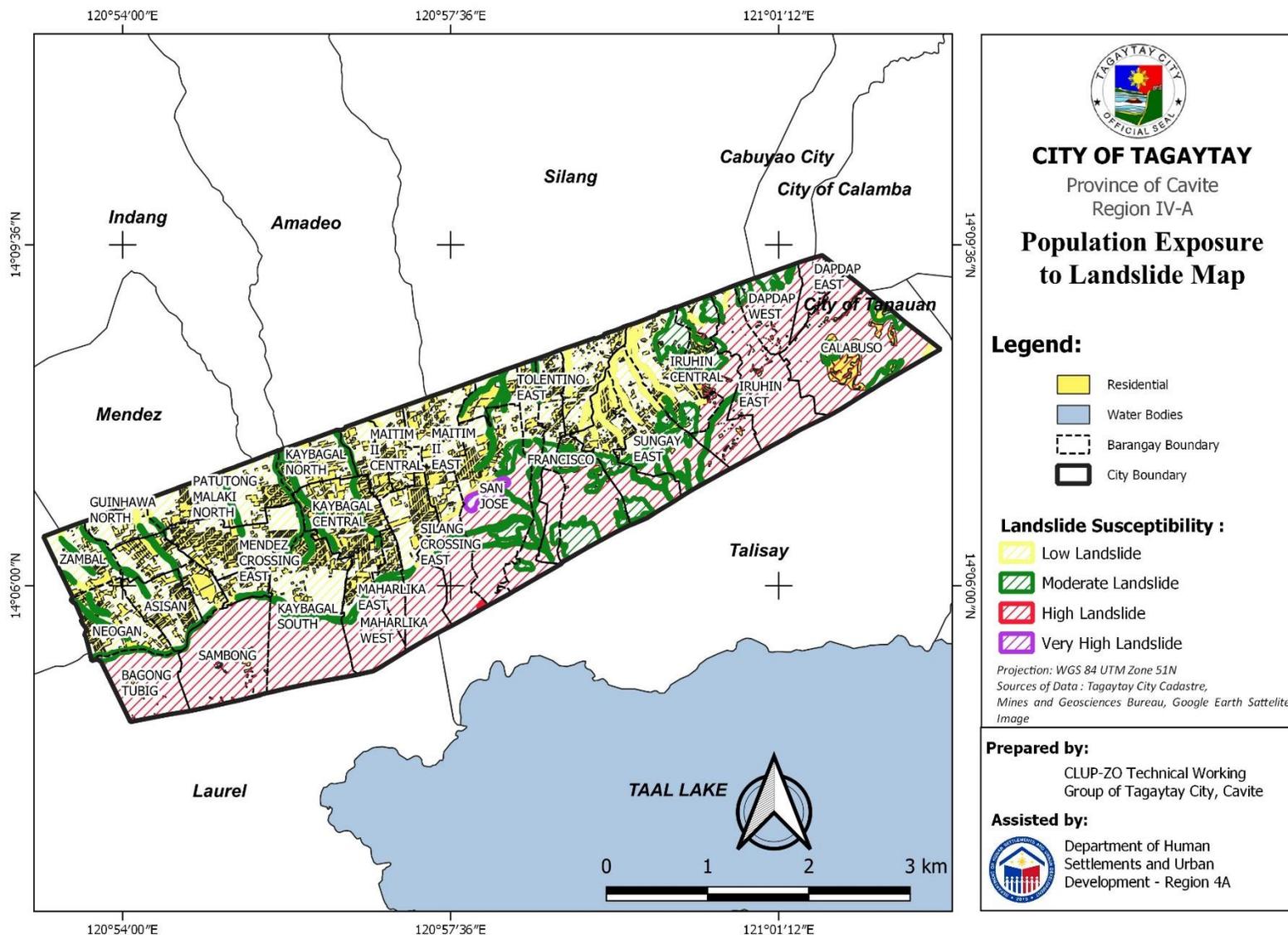
Barangay	Susceptibility	Total Population	Residential Area	Affected Residential Area (In Ha)	Affected Res Area X Population Density	Affected Pop'n	Percentage of Informal Settlers	Percentage HH Living in Light Materials	Percentage Exposed Young and Old Dependents	Percentage of Exposed PWDs	Percentage Living Below Poverty Threshold	Yes/No	Yes/No	Yes/No	Yes/No	Capacity Of Government to Make Investments In CCA-DRR	Risk
Calabuso	Moderate	1,029	79.88	12.88	17.05	220	0%	0.24%	16%	3.34%	0.81%	Yes	Yes	Yes	Yes	Yes	Moderate
	High	1,029	79.88	12.88	62.83	809	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	High
Dapdap East	High	981	1.2	817.50	1.2	981	0%	3.38%	13%	2.37%	4.29%	Yes	Yes	Yes	Yes	Yes	Moderate
Dapdap West	Moderate	991	5.04	197	1.35	265	0%	0.35%	8%	2.37%	1.75%	Yes	Yes	Yes	Yes	Yes	Moderate
	High	991	5.04	197	3.68	724	0%	0.00%	0%	0.09%	0.00%	Yes	Yes	Yes	Yes	Yes	Moderate
Francisco	Low	3,502	55.8	63	34.18	2145	0%	0.19%	16%	3.13%	1.90%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	3,502	55.8	63	15.76	989	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Moderate
	High	3,502	55.8	63	5.86	368	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Moderate
Guinhawa North	Low	625	13.38	47	13.05	610	0%	29.63%	19%	2.83%	5.85%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	625	13.38	47	0.38	18	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
Guinhawa South	Low	1,538	36.99	42	35.03	1457	0%	0.05%	10%	3.49%	1.40%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	1,538	36.99	42	1.96	81	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
Iruhin Central	Low	1,397	46.57	30	1.82	55	2%	1.93%	16%	2.14%	2.14%	Yes	Yes	Yes	Yes	Yes	Low
	Moderate	1,397	46.57	30	24.57	737	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Moderate
	High	1,397	46.57	30	20.18	605	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Moderate
Iruhin East	Low	1,122	6.63	169	0.78	132	0%	1.34%	16%	3.80%	1.49%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	1,122	6.63	169	0.08	14	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
	High	1,122	6.63	169	5.77	976	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Moderate
Iruhin West	Low	3,409	54.15	63	38.67	2434	19%	3.57%	41%	7.42%	14.28%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	3,409	54.15	63	7.73	487	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
	High	3,409	54.15	63	7.74	487	0%	0.57%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Moderate
Kaybagal Central	Low	5,113	119.14	43	112.52	4829	0%	0.87%	16%	2.12%	5.19%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	5,113	119.14	43	6.62	284	0%	0.03%	0%	0.00%	0.03%	Yes	Yes	Yes	Yes	Yes	Low
Kaybagal North	Low	3,595	66.99	54	61.99	3327	0%	1.07%	11%	3.06%	17.85%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	3,595	66.99	54	5	268	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low

Barangay	Susceptibility	Total Population	Residential Area	Affected Residential Area (In Ha)	Affected Res Area X Population Density	Affected Pop'n	Percentage of Informal Settlers	Percentage HH Living in Light Materials	Percentage Exposed Young and Old Dependents	Percentage of Exposed PWDs	Percentage Living Below Poverty Threshold	Yes/No	Yes/No	Yes/No	Yes/No	Capacity Of Government to Make Investments In CCA-DRR	Risk
Kaybagal South	Low	7,220	55.01	131	51.08	6704	5%	2.18%	9%	1.15%	5.81%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	7,220	55.01	131	3.92	514	8%	2.18%	4%	0.44%	1.96%	Yes	Yes	Yes	Yes	Yes	Low
	High	7,220	55.01	131	0.01	1	0%	0.31%	0%	0.01%	0.36%	Yes	Yes	Yes	Yes	Yes	Low
Mag-Asawang Ilat	Low	1,605	34.05	47	29.69	1399	0%	0.51%	14%	4.19%	2.83%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	1,605	34.05	47	4.36	206	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
Maharlika East	Low	1,063	15.54	68	14.94	1022	3%	5.67%	18%	3.95%	13.26%	Yes	Yes	Yes	Yes	Yes	Moderate
	Modertae	1,063	15.54	68	0.47	32	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
	High	1,063	15.54	68	0.13	9	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
Maharlika West	Low	1,179	34.26	34	33.29	1146	5%	2.29%	19%	1.32%	3.76%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	1,179	34.26	34	0.97	33	0%	0.21%	0%	0.14%	0.42%	Yes	Yes	Yes	Yes	Yes	Low
Maitim Ii Central	Low	1,536	38.56	40	38.56	1536	0%	2.00%	18%	1.26%	8.59%	Yes	Yes	Yes	Yes	Yes	Moderate
Maitim Ii East	Low	1,572	44.81	35	44.81	1572	0%	1.42%	19%	5.35%	1.42%	Yes	Yes	Yes	Yes	Yes	Moderate
Maitim Ii West	Low	883	27.74	32	27.65	880	0%	0.00%	15%	3.77%	7.88%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	883	27.74	32	0.09	3	0%	0.88%	1%	0.00%	0.18%	Yes	Yes	Yes	Yes	Yes	Low
Mendez Crossing East	Low	3,335	13.6	245	12.55	3078	8%	8.00%	14%	3.96%	5.46%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	3,335	13.6	245	0.16	39	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
	High	3,335	13.6	245	0.89	218	1%	0.79%	1%	0.06%	0.94%	Yes	Yes	Yes	Yes	Yes	Moderate
Mendez Crossing West	Low	2,638	30.25	87	29.59	2580	0%	2.05%	9%	2.32%	3.81%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	2,638	30.25	87	0.52	45	0%	2.20%	6%	0.70%	0.48%	Yes	Yes	Yes	Yes	Yes	Low
	High	2,638	30.25	87	0.14	12	0%	0.42%	1%	0.00%	1.67%	Yes	Yes	Yes	Yes	Yes	Low
Neogan	Low	3,364	61.78	54	57.43	3127	7%	14.46%	16%	3.16%	19.13%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	3,364	61.78	54	4.35	237	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
Patutong Malaki North	Low	3,043	54.16	56	52.89	2972	0%	4.10%	17%	2.50%	3.89%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	3,043	54.16	56	1.27	71	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low

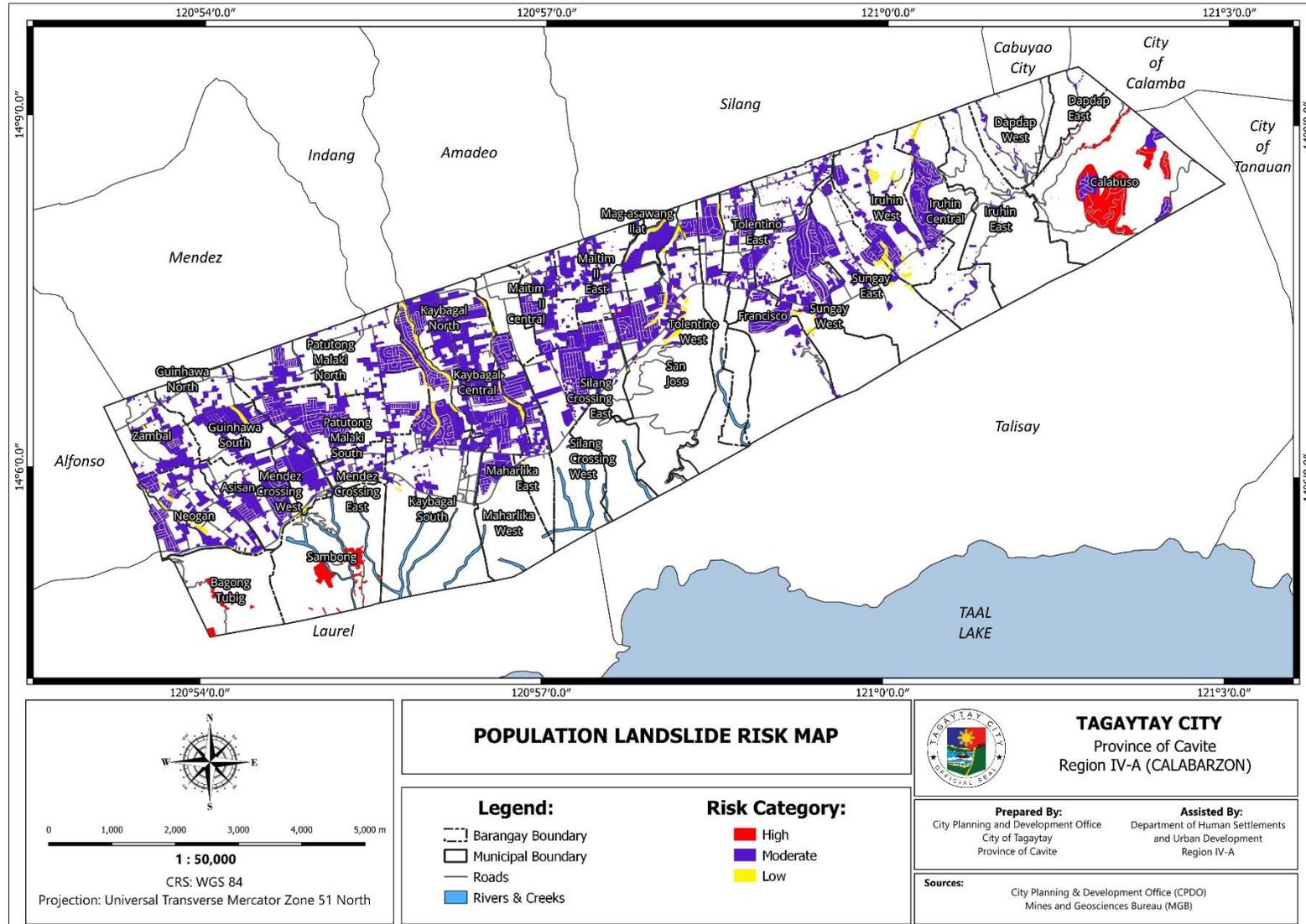
Barangay	Susceptibility	Total Population	Residential Area	Affected Residential Area (In Ha)	Affected Res Area X Population Density	Affected Pop'n	Percentage of Informal Settlers	Percentage HH Living in Light Materials	Percentage Exposed Young and Old Dependents	Percentage of Exposed PWDs	Percentage Living Below Poverty Threshold	Yes/No	Yes/No	Yes/No	Yes/No	Capacity Of Government to Make Investments In CCA-DRR	Risk
Patutong Malaki South	Low	4,229	87.93	48	86.8	4175	0%	0.32%	16%	3.17%	8.05%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	4,229	87.93	48	1.13	54	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
Sambong	Moderate	1,294	15.17	85	0.02	2	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
	High	1,294	15.17	85	15.15	1292	0%	0.77%	16%	2.37%	3.63%	Yes	Yes	Yes	Yes	Yes	High
San Jose	Low	6,776	65.69	103	56.39	5817	0%	3.11%	11%	0.81%	2.74%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	6,776	65.69	103	6.64	685	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
	High	6,776	65.69	103	1.51	156	0%	0.00%	0%	0.04%	0.03%	Yes	Yes	Yes	Yes	Yes	Low
	Very High	6,776	65.69	103	1.15	119	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Moderate
Silang Crossing East	Low	2,483	27.99	89	27.42	2432	0%	2.08%	12%	233.00%	0.14%	Yes	Yes	Yes	Yes	Yes	Moderate
	High	2,483	27.99	89	0.57	51	0%	0.90%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
Silang Crossing West	Low	1,608	49.36	33	49.31	1606	14%	0.22%	24%	5.71%	166.00%	Yes	Yes	Yes	Yes	Yes	Moderate
	High	1,608	49.36	33	0.05	2	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
Sungay East	Low	4,897	37.45	131	28.7	3753	1%	1.81%	16%	2.12%	0.63%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	4,897	37.45	131	3.42	447	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
	High	4,897	37.45	131	5.34	698	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Moderate
Sungay West	Low	4,686	60.19	78	47.24	3678	11%	31.12%	12%	3.82%	4.72%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	4,686	60.19	78	2.83	220	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
	High	4,686	60.19	78	10.13	789	0%	0.00%	0%	0.00%	0.43%	Yes	Yes	Yes	Yes	Yes	Moderate
Tolentino East	Low	2,243	29.33	76	29.28	2239	1%	1.62%	17%	1.93%	3.44%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	2,243	29.33	76	0.06	5	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
Tolentino West	Low	1,441	23.52	61	22.41	1373	0%	0.53%	15%	2.80%	0.79%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	1,441	23.52	61	1.11	68	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low
Zambal	Low	1,812	31.53	57	31.14	1790	0%	0.23%	22%	2.97%	1.37%	Yes	Yes	Yes	Yes	Yes	Moderate
	Moderate	1,812	31.53	57	0.39	22	0%	0.00%	0%	0.00%	0.00%	Yes	Yes	Yes	Yes	Yes	Low

Source: CDRA Results (2023)

Map 15. Population Exposure to Landslide Map



Map 16. Population Landslide Risk Map



3.2. Present Status of well-being

The quality of life of the residents can be measured in terms of their status of well-being in relation to certain acceptable or desired standards, as well as the level of social services that are made available to them. Indicators of well-being include health, social welfare, education, housing, employment and income, recreation and sports facilities, and protective services.

3.2.1 Health Care and Nutrition Services

The delivery of basic health care services to the general public is basically one of the primary concerns of the city. Thus, the City established its own Primary Hospital (Ospital ng Tagaytay) in 1997 to render health services for the city residents especially to underprivileged patients. In order to improve its services and accommodate the increasing number of in-patients, the City Government constructed additional building (expansion) for additional hospital beds and to comply with the minimum requirement of the Department of Health and improvement of existing Ospital ng Tagaytay. A 40-bed primary City Hospital provides modern health care services to city residents and residents of nearby towns and municipalities of Cavite and Batangas Provinces. It is strategically located along Crisanto de Los Reyes Avenue (formerly Ipil Street). The facility consists of five (5) major departments/sections: Emergency, Laboratory, OPD, X-RAY/Ultrasound, Admin Office, etc. There is still the need to improve its services and the basic requirements of DOH for upgrading to secondary hospital. In order to augment health care services, a four (4) storey 49 bed-capacity hospital building will be completed and operational located along Aguinaldo Highway, Brgy. Maitim II East. Eventually, the hospital shall be categorized as 1st Level Secondary Hospital.

In addition, a tertiary hospital (Tagaytay Medical Center) located at Barangay Silang Crossing East near Rotunda, also caters the needs not only of local residents but also the adjoining towns as well tourists who visited the city.

For minor cases, the City Health Office is open from Monday to Friday providing medical and dental services to the city residents. The 34 barangay have also their respective barangay health centers under the direct supervision of City Health Office personnel assisted by Barangay Health Workers (BHWs) and Purok Social Workers (PSWs). Non-government Organizations (NGOs) such as Project Health, Augustinian Sisters and private institutions also provide medical services to the residents.

At present the city has one (1) City Health Center, 34 barangay health centers, two (2) hospitals, nine (9) dental clinics, nine (9) medical clinics and ten (10) drugstores to meet the health and medical needs of the people.

Table 24. Summary of Health Facilities

Classification	Total Number
Hospitals	2
Clinics	
Dental	19
Lying-in	3
Medical	18
City/Barangay Health Centers	35
Laboratory Testing Centers	3

Source: BPL0 Tagaytay

Table 25. Health Personnel, 2020

Facilities				No. Personnel					
Name	Type	Bed Capacity	Physical Condition	MD	RN	RM	SI	Others	Total
City Health Office	CHO	0	functioning	1	15	4	1	1	22
Ospital ng Tagaytay	Infirmery	30	functioning	2	40	4		20	66
Tagaytay MedicalCenter	Level II	60	functioning	200	120			60	380
Alaban Clinic	Clinic	0	functioning	2	2			3	7
Grajo-Padua Clinic	Clinic	0	functioning	1	2			2	5
Talod Clinic	Clinic	0	functioning	1	1				2
TOTAL				207	180	8	1	86	482

Source: CHO Tagaytay 2020

Table 26. Ten Leading Causes of Morbidity (2018-2020)

Rank	2020	TOTAL	Rank	2019	TOTAL	Rank	2018	TOTAL
	Cause			Cause			Cause	
1	Acute Lower Respiratory Infections	451	1	Acute Upper Respiratory Infections	4185	1	Acute Upper Respiratory Infection	4478
2	Cough	344	2	Acute Lower Respiratory Infections	1165	2	Cough	1524
3	Acute Upper Respiratory Infections	343	3	Hypertensive Diseases	759	3	Fever	992
4	Fever	285	4	Diseases of Oral Cavity, Salivary Glands and Jaws	244	4	Hypertension	698
5	Hypertension	429	5	Trauma	230	5	Cold	628
6	Coryza	221	6	Diseases of Urinary System	177	6	Acute Lower Respiratory Infections	500
7	UTI- Genito Urinary Tract Infection	98	7	Chronic Lower Respiratory	164	7	Disorder of urinary System	253
8	Toothache / Tooth Pain	94	8	Symptoms involving the skin and subcutaneous tissue	112	8	Disorder of teeth and supporting Structures	233
9	Headache	93	9	Injuries to the wrist and hand	93	9	Gastroenteritis and colitis	227
10	Rash and other Non-Specific Skin Eruption	69	10	Symptoms and signs involving cognition, Perception, emotional state and behavior	84	10	Headache	191
	Total	2427		Total	7213		Total	9724

Source: CHO Tagaytay 2020

Table 27. Ten Leading Causes of Mortality

Rank	2018 Cause	TOTAL	Rank	2019 Cause	TOTAL	Rank	2020 Cause	TOTAL
1	Chronic Ischemic Heart Disease	83	1	Acute Myocardial Infarction	99	1	Acute Myocardial Infarction	107
2	Acute Myocardial Infarction	73	2	Acute Ischemic Heart Disease	32	2	Shock	12
3	Pneumonia	52	3	Pneumonia	26	3	Respiratory Failure	10
4	Acute Ischemic Heart Disease	33	4	Shock	23	4	Bacterial Pneumonia	24
5	Hypertension	30	5	Septicemia	18	5	Acute Ischemic Heart Disease	13
6	Hypertensive Heart Disease	28	6	Primary Hypertension	16	6	Cardiac Arrest	5
7	Diabetes mellitus	42	7	Cerebrovascular Diseases	16	7	Septicemia	4
8	Septicemia	17	8	Respiratory Failure	16	8	Intracerebral Hemorrhage	4
9	Chronic Nephritic Syndrome	15	9	Acute Upper Respiratory Infection	13	9	Chronic Obstructive Pulmonary Disease	4
10	Shock	14	10	Cerebral Infarction	12	10	Acute Renal Failure	4
	TOTAL	387		TOTAL	271		TOTAL	187

Source: CHO Tagaytay 2020

3.2.1.d Nutritional Status

The City Nutrition Office's records show that from 2018-2020, the malnutrition rate in the city is 1%. Different interventions strategies and techniques in nutritional programs are being delivered by the city government since they are key components to reduce the city's malnutrition rate until it reaches down to 0% malnutrition rate. As a concrete manifestation of the efficiency of the city's nutrition program, the city has received several Nutrition awards from the regional even up to national level.

As of December 2020, the population of 0-59 months is 6,370 and it is 100% weighed during the Operation Timbang in all barangays. Regular monitoring and site visitation to the families of under six (6) years old children as well as health education and information dissemination campaign are being conducted in the barangays. The City through the City Nutrition Office has been successful in forging close partnership with some Ngo's and other Civic Organization in implementing various nutrition programs.

Table 28. Nutritional Status (2018-2020)

INDICATORS	2018		2019		2020	
01. Total Population	72,367		77,411		78,971	
02. Total Number of Households	18,596		18,095		19,895	
03. Household surveyed during Family Profile Survey	18,596		18,095		19,895	
04. Total number of women who are:						
a.Pregnant	1,166		689		611	
b.Lactating	1,456		1,120		1,075	
05. Total number of households with preschool children aged 0-59 months old	0-71= 7,299		0-71= 6,978		0-59=6,370	
06. Actual population of pre-schoolers 0-59 months old	0-71= 7,316		0-71= 7,376		0-59=6,370	
07. Total number of pre-school children weighed during OPT plus	7,316		7,376		6,370	
a.Percent (%) weighing coverage (OPT plus)	100%		100%		100%	
b. Number and Percent(%) of preschool children according to Nutritional Status	No.	%	No.	%	No.	%
1.Severely Underweight	0	0%	0	0%	0	0%
2.Underweight	0	0%	0	0%	0	0%
3.Normal weight	7,203	98.50%	7,281	98.70%	6,292	98.80%
4.Severely Wasted	39	0.50%	22	0.30%	19	0.30%
5.Wasted	144	2.00%	101	1.40%	78	1.20%

INDICATORS	2018		2019		2020	
6.Overweight	180	2.50%	137	1.90%	104	1.60%
7.Obese	137	1.90%	95	1.30%	77	1.20%
8.Severely Stunted	100	1.40%	24	0.30%	16	0.30%
9.Stunted	431	5.90%	373	5.10%	303	4.80%
08. Total number of infants 0-5 months old	519		508		487	
09. Total number of infants 6-11 months old	553		481		602	
10. Total number of preschoolers 0-23 months old	2,286		2,213		2,358	
11. Total number of preschool children aged 12-59 months old	6,244		6,387		5,281	
12. Total number of preschoolers 24-59 months old	24-71= 5,030		24-71=5,163		4,012	
13. Total number of families with severely wasted and wasted preschool children	110		106		97	
14. Total number of families with stunted and severely stunted preschool children	415		393		319	
15. Total number of Educational Institutions						
Number of Day Care Centers	31		33		33	
Number of Elementary Schools	16		16		16	
16. Total number of children enrolled in Kindergarten (DepEd-supervised)	SC enrolled=9243		SC enrolled= 9,197		Kindergarten=1,418	
17. Total number of school children (grades 1-6)	9,243		9,197		9,038	
18. Total number of school children weighed at the start of the school year	9,243		9,197		9,037	
19. Percent (%) weighing coverage of school weighing	100%		100%		99.98%	
20. Number and percent (%) of school children according to Nutritional Status (Body Mass Index)						
Severely wasted	16		105		145	
Wasted	160		405		488	
Normal	8,716		8,262		7874	
Overweight	278		336		356	
Obese	73		89		95	
21. 0-5 months old infants who are exclusively breastfed	859		948		487	
22. Households with severely wasted and wasted school children	292		210		97	

Source: CHO Tagaytay 2020

The city Nutrition Council in close collaboration with the Barangay Nutrition Councils of 34 barangays conducts regular food/milk feeding activities; distribution of multi-vitamins to the selected malnourished children and free iodized salt to families with malnourished children; provision of nutritious foods to all 34 barangays and 16 public elementary schools for their supplemental feeding; nutrition education which includes Pabasa sa Nutrisyon Program, Mother Class, Food Festival, among others. Distribution of vegetable seeds to Barangay Nutrition Scholars (BNS) is also done regularly.

Table 29. Other Health Statistical Data (2018-2020)

Type	2020	2019	2018
Total Number of Deaths	412	523	528
Crude Death Rate	5.06	6.45	12.59
Total number of infant deaths	8	5	6
Child Mortality Rate	9.75	8.22	6.08
Total Number of deaths with medical attendance	412	523	528
Total Number of maternal deaths	0	0	0
Maternal mortality rate	0	0	0
Contraceptive Prevalence Rate	94.76	83.73	79.75

Source: CHO Tagaytay 2020

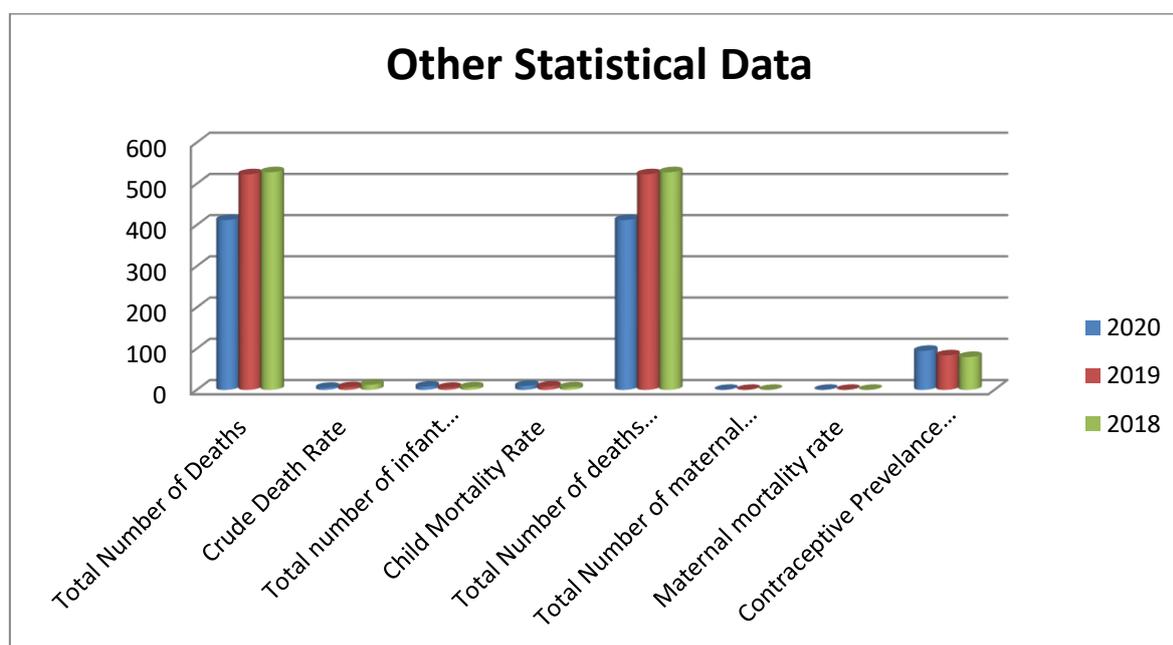


Figure 11. Other Health Statistical Data

Table 30. Livebirths by Sex, by Barangay (2018-2020)

Livebirth	2018		2019		2020	
	Male	Female	Male	Female	Male	Female
Asisan	6	7	4	4	6	5
Bagong Tubig	2	6	1	2	2	1
Calabuso	3	8	7	4	6	1
Dapdap East	3	0	4	1	0	0
Dapdap West	4	4	3	5	2	2
Francisco (San Francisco)	7	7	13	8	3	7
Guinhawa North	4	1	2	0	2	0
Guinhawa South	5	2	4	2	5	1
Iruhin Central	6	2	3	1	4	1
Iruhin East	2	7	2	3	3	1
Iruhin West	12	5	9	7	6	4
Kaybagal Central	12	20	15	15	12	14

Livebirth	2018		2019		2020	
	Male	Female	Male	Female	Male	Female
Kaybagal North	10	13	10	1	4	7
Kaybagal South (Pob.)	27	21	20	19	65	35
Mag-Asawang Ilat	2	2	2	3	3	0
Maharlika East	9	5	5	4	1	4
Maharlika West	4	3	5	2	3	4
Maitim 2nd Central	2	4	5	4	4	2
Maitim 2nd East	7	10	7	9	9	2
Maitim 2nd West	4	2	3	2	1	0
Mendez Crossing East	13	14	10	7	6	1
Mendez Crossing West	7	11	14	8	3	2
Neogan	12	12	7	6	7	6
Patutong Malaki North	6	1	4	2	2	3
Patutong Malaki South	63	63	49	44	5	2
Sambong	4	9	2	5	1	1
San Jose	17	21	12	11	6	4
Silang Crossing East	198	167	139	109	44	30
Silang Crossing West	3	8	3	3	4	3
Sungay East	22	14	10	6	12	10
Sungay West	9	17	10	6	5	5
Tolentino East	7	9	7	8	5	3
Tolentino West	7	8	5	7	4	3
Zambal	4	1	5	3	1	2
TOTAL	503	484	401	321	246	166

Source: CHO Tagaytay 2020

Table 31. General Health Situation for the Last Three Years (2018-2020)

Indicators	2018	2019	2020
<i>Fertility</i>			
Crude Birth Rate	12.59	9.01	6.3
Total Fertility Ratio	No Data	No Data	No Data
<i>Morbidity</i>			
General Medical	2427	7213	9724
Consultation Rate	No Data	No Data	No Data
Hospitalization	No Data	No Data	No Data
<i>Mortality</i>			
Crude Death Rate	6.74	6.45	5.06
Infant Mortality	6.08	6.85	15.59
Child Mortality	6.08	8.22	9.75
Maternal Mortality Rate	0	0	0

Source: CHO Tagaytay 2020

City Cemetery

There are three (3) cemeteries can be found in the city - two of which are public cemeteries located in Barangay Maitim II Central. The private cemetery is located in Barangay Patutong Malaki North.

In order to address congestion in the public cemetery, the city government recently established the City Crematorium and Columbarium and Apartment-Type Niches located adjacent to existing public cemeteries.

Table 32. Environmental Health (2018-2020)

BARANGAY	HH with basic sanitation facility (2020)				HH with basic sanitation facility (2019)					HH with basic sanitation facility (2018)				
	Pour/flush toilet connected to septic tank	Pour/flush toilet connected to sewer system	Ventilated improved pit latrine (VIP)	% HH with basic sanitation facility	Population	HH with sanitary Toilet Facilities	HH with satisfactory disposal of solid wastes	HH with complete basic sanitation facilities	% HH with basic sanitation facilities	Population	Pour/flush toilet connected to septic tank	Pour/flush toilet connected to sewer system	Ventilated improved pit latrine (VIP)	% HH with basic sanitation facility
Asisan	459	458	458	100.00	471	490	489	489	96.12	457	457	0	0	100.00
Bagong Tubig	177	177	177	86.76	210	195	192	192	107.69	174	163	0	0	93.68
Calabuso	287	286	286	99.31	296	214	214	214	138.32	232	215	0	0	92.67
Dapdap East	173	173	173	91.53	194	179	174	174	108.38	177	177	0	0	100.00
Dapdap West	253	253	253	94.40	275	299	296	296	91.97	271	271	0	0	100.00
Francisco (San Francisco)	837	837	837	97.10	884	836	800	800	105.74	847	842	0	0	99.41
Guinhawa North	152	152	152	100.00	156	219	216	216	71.23	216	216	0	0	100.00
Guinhawa South	341	341	341	100.00	350	385	300	300	90.91	387	387	0	0	100.00
Iruhin Central	248	248	248	95.75	306	253	230	230	120.95	249	249	0	0	100.00
Iruhin East	237	237	237	79.53	266	242	234	234	109.92	250	213	0	0	85.20
Iruhin West	831	775	775	98.11	870	649	642	642	134.05	654	645	0	0	98.62
Kaybagal Central	1,233	1,233	1,233	100.00	1266	1245	1245	1245	101.69	1271	1,271	0	0	100.00
Kaybagal North	731	731	731	100.00	750	790	790	790	94.94	758	758	0	0	100.00
Kaybagal South (Pob.)	1,702	1,702	1,702	100.00	1747	1251	1251	1251	139.65	1198	1,198	0	0	100.00
Mag-Asawang Ilat	338	338	338	93.11	373	386	313	313	96.63	373	341	0	0	91.42
Maharlika East	356	356	356	100.00	366	374	374	374	97.86	374	374	0	0	100.00
Maharlika West	236	236	236	88.72	273	173	173	173	157.80	224	211	0	0	94.20
Maitim 2nd Central	332	332	332	100.00	340	346	346	346	98.27	355	355	0	0	100.00
Maitim 2nd East	666	665	665	100.00	683	593	579	579	115.18	580	580	0	0	100.00

BARANGAY	HH with basic sanitation facility (2020)				HH with basic sanitation facility (2019)					HH with basic sanitation facility (2018)				
	Pour/flush toilet connected to septic tank	Pour/flush toilet connected to sewer system	Ventilated improved pit latrine (VIP)	% HH with basic sanitation facility	Population	HH with sanitary Toilet Facilities	HH with satisfactory disposal of solid wastes	HH with complete basic sanitation facilities	% HH with basic sanitation facilities	Population	Pour/flush toilet connected to septic tank	Pour/flush toilet connected to sewer system	Ventilated improved pit latrine (VIP)	% HH with basic sanitation facility
Maitim 2nd West	177	177	177	92.67	196	209	184	184	93.78	192	192	0	0	100.00
Mendez Crossing East	567	567	567	100.00	582	742	742	742	78.44	761	761	0	0	100.00
Mendez Crossing West	660	660	660	98.65	687	546	546	546	125.82	528	528	0	0	100.00
Neogan	813	813	813	100.00	834	766	766	766	108.88	859	859	0	0	100.00
Patutong Malaki North	476	476	476	100.00	489	787	787	787	62.13	486	448	0	0	92.18
Patutong Malaki South	655	655	655	100.00	672	941	918	918	71.41	918	917	0	0	99.89
Sambong	300	300	300	90.36	340	258	258	258	131.78	259	249	0	0	96.14
San Jose	1,193	1,191	1,191	100.00	1224	1062	1062	1060	115.25	1028	1,028	0	0	100.00
Silang Crossing East	353	351	351	100.00	362	470	470	470	77.02	455	452	0	0	99.34
Silang Crossing West	308	308	308	100.00	316	387	387	387	81.65	267	267	0	0	100.00
Sungay East	1,017	1,017	1,017	100.00	1044	987	987	987	105.78	1000	985	0	0	98.50
Sungay West	1,138	1,138	1,138	99.91	1169	910	909	909	128.46	849	849	0	0	100.00
Tolentino East	671	671	671	99.85	689	490	490	490	140.61	551	551	0	0	100.00
Tolentino West	379	379	379	99.48	391	323	323	323	121.05	295	289	0	0	97.97
Zambal	260	260	260	100.00	267	305	305	305	87.54	297	297	0	0	100.00
TOTAL	18556	18493	18493	98.48	19338	18302	17992	17990	94.64	17792	17595	0	0	98.89

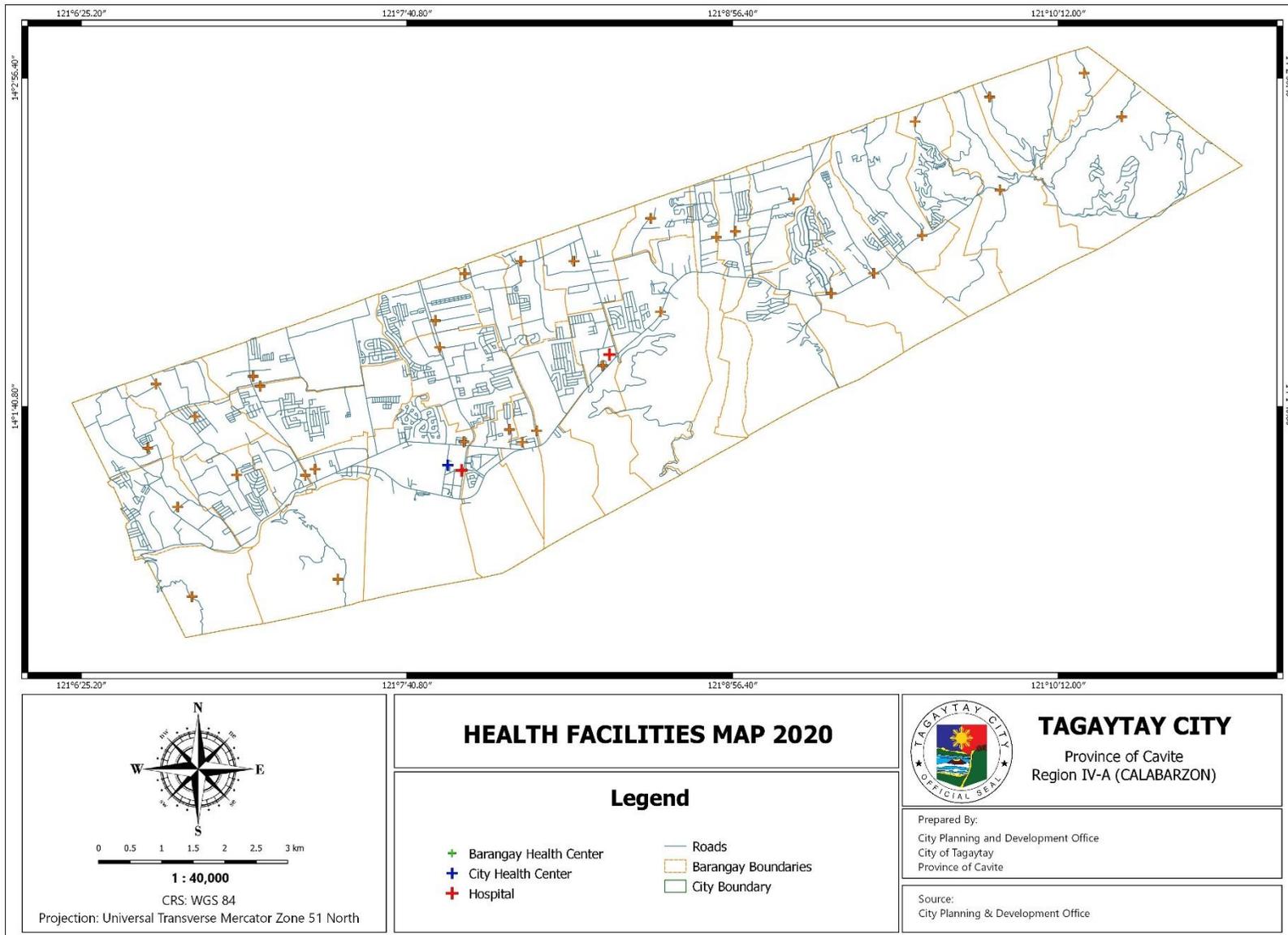
Source: CHO Tagaytay 2020

Table 33. Health and Sanitation Analysis Matrix

Technical Findings/Observation	Implication (Effect)	Policy Captions
Poor awareness and access of Family Planning education	Increasing rate of teenage pregnancy	Comprehensive reproductive health education at community and school
Decrease supplies for non-communicable diseases meds	Increase mortality and morbidity from non-communicable diseases	Strengthen health system response in addressing NCD problems
High Pet Ownership Rate	Increase on risk for animal bite cases, more stray/uncaged/ domestic pets, streets will not be safe for humans, high demand for anti-rabies vaccination on pets, pets will be on high probability to have rabies, will create noise pollution, may damage house and properties	Intensify Law on Responsible Pet Ownership and Update City Ordinance 2011-014 or the Anti Rabies Act of 2007 and Prescribing Rules and Regulations on Responsible Pet Ownership
High Percentage of undetected HIV cases	Increased morbidity and mortality; High HIV transmission, people will engage on unprotected sex, Increase in demand in Pre-exposure prophylaxis for HIV, Condoms, HIV, Hepatitis B & Syphilis screening, Inquiries on Social hygiene clinics, anti-virals, medicines and vaccines	A City Ordinance has to be passed: AN ORDINANCE PROMULGATING POLICIES AND MEASURES FOR THE PREVENTION AND CONTROL OF SEXUALLY TRANSMITTED INFECTIONS (STI)/HUMAN IMMUNODEFICIENCY VIRUS (HIV)/ACQUIRED IMMUNE DEFICIENCY SYNDROME (AIDS) IN TAGAYTAY CITY AND CREATING THE TAGAYTAY CITY LOCAL AIDS COUNCIL (TCLAC), DEFINING ITS FUNCTIONS, ITS COMMITTEES, AND THE PROGRAMS THAT IT SHALL IMPLEMENT, APPROPRIATING FUNDS AND OTHER RELATED PURPOSES ———— and Anti-Discrimination Ordinance on the Basis of SOGIE

Lack of compliance of some sectors crucial for prevention of the vector borne diseases	Continuous occurrence of high number of vector borne disease cases	Policy on strict compliance of every sector
Inadequate preparedness for management and prevention of EREID cases	High risk of spread of infectious diseases	Comprehensive agreement for preparedness in all sectors involved in the management and prevention of EREID
Increasing rate of Tuberculosis Multi- Drug Resistance	High risk of spread of Tuberculosis	Comprehensive budget utilization on Tuberculosis program
Poor seeking behavior on oral health check up	High prevalence of Dental Carries	Intensification of Dental Health promotion
Environmental Sanitation in Waste Disposal/ Excreta due to increasing population	Proliferation of substandard and deficient residential septage system (bottomless septage) thereby posing risk for contamination of water sources	Compliance for construction of appropriate and LGU approved septic tank

Map 17. Health Facilities Map of Tagaytay City



3.2.2 Social Welfare

Tagaytay City, like most towns and cities in the country, is beset with its own social problems, which include unemployment, malnutrition, inadequate housing provisions and drug addiction. To help solve these problems, social welfare assistance in the city is therefore extended by the City Social Welfare and Development Office (CSWDO).

Among the services offered by the CSWDO are family life education and counselling, family planning and assistance, day care services, supplemental feeding, and emergency shelter assistance, relief and rehabilitation. In terms of facilities, it has set up one family clinic in every day care center.

Some government offices and private organizations operating within the locality provide invaluable support to CSWDO in extending social welfare assistance to those who are needy. The government agencies that also assist the CSWDO are the Department of Agriculture and the Department of Health. The civic and religious organizations on the other hand, include the Ladies of Charity, Tagaytay City Credit Association, Society of St. Vincent de Paul, Marian Center, Women's Club, Poveda and Verbum Dei.

To monitor and concentrate on the social problems that arise in the city, the following Programs and Services are provided by the CSWDO: (1) Self-Employment Assistance, (2) Family and Community Welfare, (3) Women's Welfare, (4) Child and Youth Welfare, (5) Emergency Assistance Program, (6) Program for Disabled Persons and the Elderly, (7) Lingap sa Barangay and (8) Day Care Services.

As per records, a total of 33 day care centers are present in the city. Out of 34 barangays, 32 have their own day care centers with playgrounds and other basic amenities.

Table 34. Name and Location of Day Care Centers (2020)

Barangay	Day Care Center
1. Asisan	Saint Moises
2. Bagong Tubig	Holy Child
3. Calabuso	Saint Anthony
4. Dapdap East	Little Angels
5. Dapdap West	Lady Of Fatima
6. Francisco	Saint Francis
7. Guinahawa South	Beverly Hills
8. Iruhin Central	Lady Of Love
9. Iruhin East	San Isidro
10. Iruhin West	St. Augustine
11. Kaybagal Central	St. Claire
12. Kaybagal North	Kiddie Joy
13. Kaybagal South	Holy Angels
14. Mag-asawang Ilat	Kinderland
15. Maharlika East	St. Catherine
16. Maharlika West	Star Light
17. Maitim 2 nd Central	Good Shepherded

Barangay	Day Care Center
18. Maitim 2 nd East	Rainbow Brite
19. Maitim 2 nd West	Disney Land
20. Mendez Crossing East	Children Ofmary
21. Mendez Crossing West	Rose Of Sharon
22. Neogan	Baby Doll
23. Patutong Malaki North	St. Rafael
24. Patutong Malaki North	St Mary
25. San Jose	Twinkle
26. Sambong	Lamb Of Jesus
27. Sungay East	Little Star
28. Sungay East (St. Michael)	St. Michael
29. Sungay West	Perpetual
30. Silang Crossing East	Lady Of Lourdes
31. Tolentino East	St. Joseph
32. Tolentino West	St. Dominic
33. Zambal	Holy Spirit

Source: CSWDO Tagaytay 2020

Table 35. Social Welfare Analysis Matrix

Technical Finding Observation	Implications (Effect)	Policy Captions
Absence of Temporary Shelter for Children in conflict with the law (CICL), neglected, abandoned and victims of any form of abuse	Temporary Custody were designated to Barangay Council for the Protection Children (BCPC)	Establishment of Bahay Pag-Asa and Bahay Kalinga
Inadequate employment opportunities for Person with Disabilities	Unmotivated to seek for a job due to barriers and discrimination	Employment recommendation establishments within the city.
Temporary Shelter for Senior Citizens who are homeless, neglected, abandoned by their family and others	Temporary custody of barangay for their care and protection	Establishment of Home for the Elderly

3.2.3 Education Services

In response to the city’s growing demand of school-going population, there are sixteen (16) Public Elementary Schools and fourteen (14) Private elementary schools located at different barangays that caters not only Tagaytay children but also the enrollment of some children from the neighboring municipalities.

Aside from eight (8) Private High Schools The city government has established four (4) Public High Schools, namely: 1) Tagaytay City National High School (TCNHS) located along Mayor's Drive, Brgy. Mendez Crossing East; 2) Tagaytay City Science National High School (TCSNHS) located at Barangay Sungay West; 3) Francisco Perez Tolentino National High School (FPTNHS) located along Lagusan Drive, Brgy. Tolentino West and; Tagaytay City Integrated School located at Brgy. Guinhawa, Tagaytay City. School facilities have also been improved including state-of-the-art multi-storey school buildings, science and computer laboratories, play grounds, libraries, school canteens, covered gymnasiums, perimeter fence for the security of students, among others. These schools also accommodate senior high students when the K to 12 Program of the Department of Education was implemented. Enrollees came not only from Tagaytay but also from the neighboring municipalities of the city like Mendez, Silang, Amadeo, Alfonso and even from adjacent Provinces such as Talisay, Batangas and Sta. Rosa Laguna.

There are three (3) colleges in the city – City College of Tagaytay (CCT), Olivarez College and STI College, and one (1) graduate school – Divine Word Seminary (SVD). CCT, Olivarez College and STI College are open to all enrollees while SVD offers post graduate studies to the seminarians.

Table 36. Summary of Education Facilities (2020)

Classification		Total Number
Tertiary Schools		3
	Private	2
	Public	1
Senior High Schools		8
	Private	4
	Public	4
Secondary Schools		12
	Private	8
	Public	4
Primary schools		31
	Private	14
	Public	17
Pre-Schools		47
	Private	14
	Public	33

Source: City Planning and Development Office/CSWDO 2020

3.2.3.1 Educational Attainment and Literacy Rate

The literacy rate is defined by the percentage of the population of a given age group that can read and write. According to the Global Partnership for Education, education is considered to be a human right and plays a crucial role in human, social, and economic development. Education promotes gender equality, fosters peace, and increases a person's chances of having more and better life and career opportunities. Education is clearly a vital contributor to any city's overall health.

In 2015, Tagaytay City's literacy rate is 99.54%. From the PSA record, out of 55,301 HH population from 10 years old and over, 55,046 or 99.54% were literate and 0.46% of the population were considered illiterate. Females recorded a basic literacy rate of 99.59% while males were literate at a rate of 99.48%.

Table 37. Historical Enrollment Participation Rate for the last five years

Level	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022
Elementary	98.54%	98.24%	98.56%	98.76%	99.25%
Secondary	97.16%	97.07%	97.36%	97.69%	95.97%
TOTAL	97.85%	97.66%	97.96%	98.23%	97.61%

Source: DepEd Tagaytay

Table 38. Elementary and Secondary Enrolment

School Year	Elementary	Secondary	TOTAL
2017-2018	9264	8178	17442
2018-2019	8963	8566	17529
2019-2020	8703	9220	17923
2020-2021	9197	9828	19025
2021-2022	9372	10375	19747

Source: DepEd Tagaytay

Table 39. List of Primary Schools, 2020

Name of School	Address	Category
Bagong Tubig Elementary School	Brgy. Bagong Tubig	Public
Bulalo Elementary School	Brgy. Iruhin West	Public
Bulalo Annex	Brgy. Iruhin Central	Public
Carlos Batino Sr. Elementary School	Brgy. Kaybagal Central	Public
Dapdap Elementary School	Brgy. Dapdap East	Public
Kalabuso Elementary School	Brgy. Calabuso	Public
Isidro Cuadra Elementary School	Brgy. Asisan	Public
Maitim Elementary School	Brgy. Maitim II East	Public
Maharlika Elementary School	Brgy. Maharlika East	Public
Mendez Crossing Elementary School	Brgy. Mendez Crossing	Public
Neogan Elementary School	Brgy. Neogan	Public
Patutong Malaki Elementary School	Brgy. Patutong Malaki South	Public
Sambong Elementary School	Brgy. Sambong	Public
San Jose Elementary School	Brgy. San Jose	Public
Sungay Elementary School	Brgy. Sungay West	Public
Tagaytay City Central School	Barangay Sungay West	Public
Tagaytay City Integrated School	Brgy. Guinhawa South	Public
Bethany Christian Academy	Brgy. Maitim II East	Private
Blessing in the Word Montessori School	Brgy. Kaybagal South	Private
Brudrick Marion School	Brgy. Maitim II East	Private
Karlnaomi School	Brgy. Francisco	Private
La Asuncion Montessori School	Brgy. Patutong Malaki North	Private
La Madelle Academy	Brgy. Francisco	Private
Mater Dei Academy	Brgy. Kaybagal South	Private
Pater Noster Montessori School	Brgy. Maitim Central	Private
Samuel Mission Institute	Brgy. Maitim II Central	Private
Sister Maria Carmela Brescia School	Brgy. San Jose	Private
St. Francis of Assisi Academy	Brgy. Silang Crossing West	Private
Tagaytay Christian Academy	Brgy. San Jose	Private
Tagaytay Montessori School	Brgy. Patutong Malaki North	Private

Name of School	Address	Category
TISE	Brgy. Kaybagal South	Private

Source: DepEd Tagaytay / City Planning and Development Office

Table 40. List of Secondary Schools, 2020

Name of School	Address	Category
Francisco P. Tolentino Memorial High School	Brgy. Tolentino West	Public
Tagaytay City National High School	Brgy. Mendez Crossing East	Public
Tagaytay City Science National High School	Brgy. Sungay West	Public
Tagaytay City Integrated School	Brgy. Guinhawa South	Public
Blessing in the Word Montessori School	Brgy. Kaybagal South	Private
Brudrick Marion School	Brgy. Maitim II East	Private
La Asuncion Montessori School	Brgy. Patutong Malaki North	Private
Mater Dei Academy	Brgy. Kaybagal South	Private
Samuel Mission Institute	Brgy. Maitim II Central	Private
Shim International School	Brgy. Tolentino West	Private
Tagaytay Christian Academy	Brgy. San Jose	Private
TISE	Brgy. Kaybagal South	Private

Source: DepEd Tagaytay / City Planning and Development Office 2020

Table 41. List of Senior High Schools, 2020

Name of School	Address	Category
Tagaytay City National High School	Brgy. Mendez Crossing East	Public
Tagaytay City Science National High School	Brgy. Sungay West	Public
City College of Tagaytay	Brgy. Kaybagal South	Public
Francisco P. Tolentino Memorial Integrated High School	Brgy. Tolentino West	Public
Blessing in the Word Montessori School	Brgy. Kaybagal South	Private
Mater Dei Academy	Brgy. Kaybagal South	Private
Olivarez College	Brgy. San Jose	Private
Shim International School	Brgy. Tolentino West	Private

Source: DepEd Tagaytay / City Planning and Development Office 2020

Table 42. List of Colleges, 2020

Name of School	Address	Category
City College of Tagaytay	Brgy. Kaybagal South	Public
Olivarez College	Brgy. San Jose	Private
STI College	Brgy. San Jose	Private

Source: City Planning and Development Office 2020

Table 43. Historical Enrolment by Level

Level	2017-2018	2018-2019		2019-2020		2020-2021		2021-2022	
	Total Enrolment	Total Enrolment	% Increase/Decrease						
Elementary	9264	8963	3.36% decrease	8703	2.99% decrease	9197	5.37% increase	9372	1.87% increase
Secondary	8178	8566	4.53% increase	9220	7.09% increase	9828	6.19% increase	10375	5.27% increase
TOTAL	17442	17529	0.496% increase	17923	2.20% increase	19025	5.79% increase	19747	3.66% increase

Source: DepEd Tagaytay

Table 44. Student-Teacher and Student-Classroom Ratio by Level

Year	Type/Level	Number of Enrollees			Total No. of Teachers	Total No. of Classroom	Student-Teacher Ratio	Student-Classroom Ratio
		Male	Female	Total				
2017-2018	Elementary	4813	4451	9264	254	237	37:1	39:1
	Secondary	3978	4200	8178	309	166	27:1	50:1
2018-2019	Elementary	4735	4346	8963	267	246	34:1	37:1
	Secondary	4180	4386	8566	337	168	26:1	51:1
2019-2020	Elementary	4532	4165	8703	287	256	31:1	34:1
	Secondary	4540	4680	9220	361	181	26:1	51:1
2020-2021	Elementary	4872	4325	9197	289	261	32:1	36:1
	Secondary	4881	4947	9828	362	193	28:1	51:1
2021-2022	Elementary	4982	4388	9372	298	258	32:1	37:1
	Secondary	5106	5269	10375	374	194	28:1	54:1

Source: DepEd Tagaytay

Table 45. Facilities and Condition, 2020

School	Level	Type	Projected Classroom	No.Of Building	Type Of Building	Condition
Bagong Tubig Es	Elementary	Public	7	2	Deped Standard/Mayor Abraham "Bambol" N. Tolentino Type School Building	Good Condition
Bulalo ES	Elementary	Public	6	2	LGU Funded	Good Condition
			1	1	Deped National Funded	Needs Major Repair
Bulalo Annex	Elementary	Public	7	1	Lgu Funded	Good
			2	2	Ffccii	2 Rooms (Need Minor Repair)
Carlos S. Batino Sr. Es	Elementary	Public	23	5	Lgu Funded Building 3ps Building	2 Classrooms Needs Minor Repair 1 Building Needs Repair Of Electrical Wirings
Dapdap ES	Elementary	Public	7	4	Marcos Pre-Fabricated School Building (Marcos Type); Bagong Lipunan School Building (BLSB) Type I; Federation Of Filipino Chinese Chamber Of Commerce And Industry, Inc. (FFCCII) School Building	Need Minor Repair
Isidro Cuadra Es	Elementary	Public	8	2	Mayor Abraham "Bambol" N. Tolentino Type School Building	Good

School	Level	Type	Projected Classroom	No.Of Building	Type Of Building	Condition
Kalabuso ES	Elementary	Public	7	2	Mayor Abraham "Bambol" N. Tolentino Type School Building	Need Major Repair (Roof Replacement)
Maharlika ES	Elementary	Public	27	5	(Building 1-3)Mayor Abraham "Bambol" N. Tolentino Type School Building (Building 4) BLSB Type II (Building 5) Deped Standard Building- Needs Minor Repair	Good Condition
Maitim II ES	Elementary	Public	15	9	Marcos Pre-Fabricated School Building (Marcos Type) Agapschool Building Bagong Lipunan School Building (Blsb) Type I Fvr 2000 Building Home Economics Building	Needs Major Repair Good Condition Needs Minor Repair Needs Minor Repair

School	Level	Type	Projected Classroom	No.Of Building	Type Of Building	Condition
Mendez Crossing Es	Elementary	Public	23	6	Mayor Abraham "Bambol" N. Tolentino Type School Building Bagong Lipunan School Building (Blsb) Type Ii Bagong Lipunan School Building (Blsb) Type Iii Home Economics Building Bagong Lipunan School Building (Blsb) Type I	Needs Minor Repair For Condemnation For Condemnation Needs Major Repair Needs Major Repair
Neogan ES	Elementary	Public	10	2	Modified Deped Building/Mayor Abraham "BAMBOL" N. Tolentino Type School Building	Good Condition
Patutong Malaki Es	Elementary	Public	9	1	Municipal	Good
Sambong ES	Elementary	Public	1	1	Provincial	Needs Major Repair
			2	2	Municipal	Needs Major Repair
			6	1		Needs Major Repair
San Jose Es	Elementary	Public	26	4	Lgu Funded	Good Condition
				1	Deped National	For Condemnation

School	Level	Type	Projected Classroom	No.Of Building	Type Of Building	Condition
Sungay ES	Elementary	Public	14	3	Mayor Abraham "Bambol" N. Tolentino Type School Building	Good Condition
Tagaytay City Cenral School	Elementary	Public		1	Mayor Abraham "Bambol" N. Tolentino Type School Building	Good Condition
				1	Lgu Funded (Sped Building)	Good Condition
				2	Lgu Funded	Good Condition
Tagaytay City Integrated School	Elementary	Public	13	1	Mayor Abraham "Bambol" N. Tolentino Type School Building	Good Condition
	Secondary		12	1	Mayor Abraham "Bambol" N. Tolentino Type School Building	Good Condition
F. P. Tolentino Integrated Hs	Secondary	Public	34	3	Mayor Abraham "Bambol" N. Tolentino Type School Building	Need Minor Repair
				1	Mayor Abraham "Bambol" N. Tolentino Type School Building	For Condemnation
Tagaytay City National Hs-Ishts	Secondary	Public	18	No. 3	Mayor Abraham " Bambol" Tolentino Type School Building	For Demolition
			18, 16,31	Nos.5,9,10		For Major Repair
Tagaytay City Science Nhs-Ishts	Secondary	Public	12	1	Lgu Funded Type Building	Needs Minor Repair

School	Level	Type	Projected Classroom	No.Of Building	Type Of Building	Condition
			29	1	LGU Funded Type Building	NEEDS MAJOR REPAIR
			32	1	LGU Funded Type Building	NEEDS MAJOR REPAIR
			8	1	LGU Funded Type Building	NEEDS MINOR REPAIR

Source: DepEd Tagaytay

Map 18. Education Facilities Map of Tagaytay City

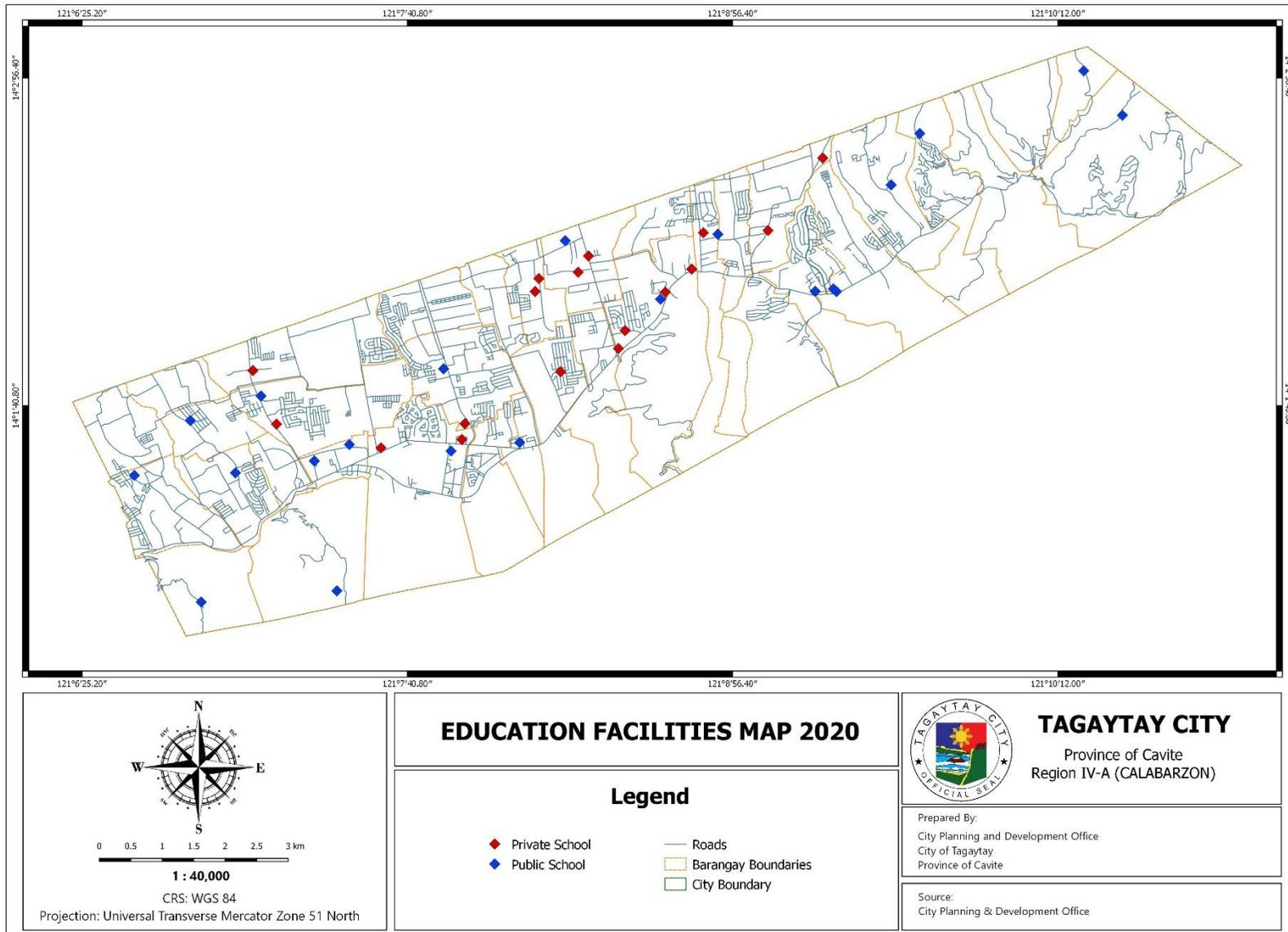


Table 46. Projected Enrollment

Level	Projected Enrolment					
	SY 2017-18	SY 2018-19	SY 2019- 20	SY 2020-21	SY 2021-22	SY 2022-23
Elementary	9237	9072	7860	9221	9352	9397
Secondary	8153	8604	8979	9593	10412	10730
TOTAL	17390	17676	16839	18814	19764	20127

Source: City Planning and Development Office

Table 47. Projected Classroom

Level	Projected Number of Classrooms					
	SY 2017-18	SY 2018-19	SY 2019-20	SY 2020-21	SY 2021-22	SY 2022-23
Elementary	237	246	256	261	258	265
Secondary	166	168	181	193	194	200
TOTAL	403	414	437	454	452	465

Source: City Planning and Development Office

Table 48. Projected Teacher Requirement

Level	Projected Teacher Requirements					
	SY 2017-18	SY 2018-19	SY 2019-20	SY 2020-21	SY 2021-22	SY 2022-23
Elementary	254	267	287	289	298	300
Secondary	309	337	361	362	374	380
TOTAL	563	604	648	651	672	680

Source: City Planning and Development Office

Table 49. Education Analysis Matrix

No.	Technical Finding Observation	Implications (Effect)	Policy Captions
1	<p>School Infrastructure</p> <p>-The availability of school infrastructure and facilities have improved but classroom shortage remains to be a pervasive issue in educational setting.</p> <p>-Limited or lack of buildable space has hampered the construction of school building projects.</p>	<p>-Reduced access to education and good learning environment which lead to lower academic achievement of learners.</p>	<p>-Effective planning and adequate allocation and utilization of school infrastructure funds and resources.</p> <p>-Acquisition of sites and construction of high-rise school buildings.</p>

	-Limited number of Community Learning Centers (CLC).		-Strengthen the partnership between local and national government to support ALS and other non-formal education programs.
2	Professional Development Needs of Teachers -Professional development opportunities for teachers are limited.	-Reduced attempts to enhance and increase teacher competencies which have direct impact on learning delivery.	-Revisit existing teacher strengths and needs assessment and strengthen teacher support systems by providing effective professional development opportunities for them.
3	Performance Indicators -Increase in number of enrollees. -Late entrance of school-age population in any of the current levels of education. -Increase in dropout rate. -Increase in number of out-of-school youth and cases of teenage pregnancy.	-Higher demand for teachers, classrooms, and other teaching resources. -Low participation rate. -Missed opportunities for learners, and negative economic impact which may include higher unemployment rate and lower income levels.	-Expand and upgrade public school buildings and facilities and teaching resources to accommodate enrollment demands as well as comply with local and national standards. -Increase the participation of stakeholders in raising the awareness of parents/community on the importance of education. -Develop tracking and monitoring systems and programs that will promote academic success for all learners.
4	Disaster Risks -Natural disasters including typhoons and major earthquakes. -Possible effects of the Taal Volcano eruption.	-Disruption of classes. -High risks for learners, parents, and school personnel.	-Construction of safe and more resilient learning facilities through appropriate building design and materials. -Strengthen the coordination between the School DRRM and local government unit. -Capacitate school personnel and learners by conducting disaster preparedness measures.

			-Prepare evacuation plans and backup power capacity in case of natural disaster.
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3.2.4 Housing Services

The city government formed 26 official settlements to address the need for shelter and to lessen the squatting problems.

Table 50. Number of housing units, by type of building, number of beneficiaries (2020)

	Name Of Pabahay	Location	Date Awarded	Year Built	Condition of the Building	Housing Type	Total Number of Beneficiaries
1	Ina ng Pag-ibig Village Phase 1	Kaybagal Central	February 2005	2005	Good	Row House Type	20
2	Ina ng Pag-ibig Village Phase 2	Kaybagal Central	May 2013	2013	Good	Single Detached	21
3	Sto. Niño Homes	Guinhawa South	January 2001	2001	Good	Row House Type	20
4	St. Patrick Village	Mag-asawang Ilat	January 2001				41
5	Kalayaan Homes Phase 1-3	Neogan	September 1995	1995	Fair	Row House Type	49
6	St. Rafael Village Core house Lot	Kaybagal South	July 1995	1995	Fair	Row House Type	46
			July 1998	1998	-	Lots	181
7	Tagaytay Inter-Asia Village	Iruhin West	July 2005		-	Lots	52
8	St. Michael Village Sungay East Phase I	Sungay East	March 1999	1999	Fair	Single Detached	59
	Phase II		March 1999	1999	Fair	Row House	27
	Phase III		November 1999	1999	Fair	Duplex	26
	Phase IV		November 1999	1999	Fair	Row House	24
	Phase V		November 1999	1999	Fair	Lots	24

	Name Of Pabahay	Location	Date Awarded	Year Built	Condition of the Building	Housing Type	Total Number of Beneficiaries
	Phase VI		November 1999	1999	Fair		24
	Phase VII		November 1999	1999	Fair		24
	Phase VIII (LOTS)		April 2001	2001	-		15
9	Seiz de Junio Village	Sungay East	February 1995	1995	Fair	Row House	36
			July 1995	1995		Lot	68
10	Bahay Tagaytay 1 Phase 1	Patutong Malaki South	February 2008	2008	Good	Single Detached/ Row Houses	18
	Phase 2		March 2010	2010	Very Good	Row House Type	55
11	Bahay Tagaytay 2	Maharlika East	January 2008	2008	Very Good	Row House Type	20
12	Bahay Tagaytay 3	Sungay West	March 2010	2010	Very Good	Row House Type	15
13	Bahay Tagaytay 4	Mendez Crossing West	February 2010	2010	Good	Row House Type	247
14	Bahay Tagaytay 5	Kaybagal South	March 2011	2011	Very Good	Single Detached	15
15	Bahay ni Titser	Mendez Crossing East	July 2015	2015	Very Good	Row House Type	79
16	Bahay Tagaytay 8 Phase I	Zambal	October 2017	2017	Very Good	Row House Type	142
	Phase II		March 2019	2019			36
17	Bahay Tagaytay 9	Mendez Crossing East	June 2018	2018	Very Good	Row House Type	146
18	Bahay Tagaytay 10	Iruhin West	October 2018	2018	Very Good	Row House Type	36

	Name Of Pabahay	Location	Date Awarded	Year Built	Condition of the Building	Housing Type	Total Number of Beneficiaries
19	Bahay Tagaytay 11	Tolentino East	June 2019	2019	Very Good	Row House Type	24
20	Bahay ni Titser	Mendez Crossing East				Row Houses	80

Source: Tagaytay Housing Office 2021

There are at least 1,570 families who benefited from this PABAHAY program.

Two (2) Informal Settlements are also scattered around the city, they are Sitio Ula-Ula at Barangay Mendez Crossing East and Bagong Silang at Barangay Sungay West.

There are four (4) more potential sites identified suitable for residential development in a community and typically includes vacant sites and sites having the potential for redevelopment, these sites are located at Mendez Crossing East, Maitim II East, Iruhin West and Guinhawa North.

Table 51. Inventory of Subdivisions, 2020

	Name of Subdivision	Location
1	7th BCT	Iruhin West
2	Alta Monte	Kaybagal Central
3	Asyana Subdivision	Patutong Malaki North
4	Bay Horizon Land Homes	Sungay East
5	Bernardo Baybay Subdivision, Summervale Subdivision	Silang Junction East
6	Bloom Fields Subdivision	Maharlika West
7	Britanny (Cross Winds Subdivision	Iruhin Central
8	Buenavista Subdivision	Tolentino West
9	Cityland	Iruhin West
10	Cityland I	Silang Junction West
11	Cityland II	Neogan
12	Cityland II	Zambal
13	Cityland III	Silang Junction East
14	Cityland IV	Asisan
15	Continental Subdivision	Maharlika East
16	Corehouse	Kaybagal South
17	Divine Word Subdivision	Mag-asawang Ilat
18	Erlinda Perey Realty	Mendez Junction East
19	Evergreen Subdivision	Francisco
20	Exodus Subdivision	Maharlika East
21	Family Tree Land	Kaybagal Central
22	Filipinas Farm	Silang Junction East
23	Filipinas Farm Subdivision	Mag-asawang Ilat
24	Filipinas Farm Subdivision	Iruhin West
25	Foggy Heights	San Jose
26	Gabriel Heights	Patutong Malaki South
27	Gochecho Brothers (Villa Mendez)	Patutong Malaki South
28	Guinhawa Village	Guinhawa South
29	Herbal Cove	Iruhin West
30	Hollywood Subdivision	Francisco
31	Isabela Heights	Kaybagal Central
32	Jestra Heights	Francisco
33	La Bella Lifestyle Properties	Neogan
34	Leveriza Subdivision	Kaybagal South
35	Leveriza Subdivision	Silang Junction East
36	Llamado Subdivision	Kaybagal South
37	Magallanes Subdivision	Maitim 2nd West
38	Metrogate - MG Manors	Maitim 2nd West
39	Metrogate Subdivision	Kaybagal Central and Kaybagal North
40	Metrogate Subdivision (Centara)	Patutong Malaki South and Guinhawa North

	Name of Subdivision	Location
41	Modesta Bayot Subdivision	Silang Junction East
42	Montevista Subdivision	Francisco
43	National Housing Authority	Maharlika East
44	NHA (Metrico), National Housing Authority	Kaybagal South
45	Nueva Villa/Casimiro, Tagaytay Greenville Subdivision	Kaybagal North
46	P.B Constantino	Silang Junction East
47	Pacific Grove	Kaybagal Central
48	Pacrim Realty & Dev. Cop.	Iruhin West
49	Palm Crest/Gomega	Maharlika West
50	PC & Employees Village	Kaybagal South
51	Pious Heights	Maitim 2nd Central
52	Polivel Subdivision	Maitim 2nd East
53	Prime Peak Subdivision	Maitim 2nd West and Maitim 2nd Central
54	Prime Peak Subdivision	Maitim 2nd East
55	Pueblo de Sol	Patutong Malaki North
56	Regalado Subdivision	Sungay East
57	Ricafrente Subdivision	Maitim 2nd East
58	Richmore Land Subdivision	Maitim 2nd Central and Maitim 2 nd West
59	Rivero Subdivision	Mendez Junction East
60	RML High Grove	Maharlika West
61	Rogem Realty (Villa Ciara)	Iruhin West
62	Roxaco Land Corporation (Anya)	Mag-asawang Ilat
63	Royal Pines West	Kaybagal Central
64	Rural & Urban	Mendez Junction West
65	Saling Lahi (Villa Pura Subdivision)	San Jose
66	Sarmiento Subdivision	Mendez Junction East
67	Seiz de Junio	Sungay East
68	Soto Grande	Asisan
69	Southridge Subdivision	Sungay East and Sungay West
70	St. Gabriel Subdivision	Tolentino East
71	St. Michael Village	Sungay East
72	Taal Green Heights	Iruhin West
73	Tagaytay Development Subdivision	Maitim 2nd East
74	Tagaytay Dream Heights	Kaybagal Central
75	Tagaytay Executive Village	San Jose
76	Tagaytay Forbes Residences	Kaybagal Central
77	Tagaytay Golden Ent.	Maitim 2nd East
78	Tagaytay Heights (Phil. Township)	Kaybagal South
79	Tagaytay Woodsborough	Asisan
80	Tropical Greens Subdivision	Patutong Malaki South
81	Velvetview Subdivision	Kaybagal Central

	Name of Subdivision	Location
82	Victoria Ver Subdivision	Maitim 2nd East
83	Villa Constancia	Kaybgal Central
84	Villagio Isidro	Asisan
85	VJ Properties (Pineapple Residences)	Mag-asawang Ilat
86	West Coast Subdivision	Sungay East
87	Windsor Heights	Tolentino East and Francisco
88	Wonderland Heights	Maitim 2nd Central
89	Woodridge Properties Inc.	Tolentino East
90	Xceed Realty & Dev. (Merlinda Residences)	Neogan
91	Xceed Realty & Dev. (Merlinda Residences)	Zambal

Source: City Planning and Development Office

3.2.5 Recreation and Sports Facilities

The City of Tagaytay provides for its residents, visitors and tourists a number of facilities for both sports and recreational activities. Available sports facilities include: fifteen (15) Covered Courts, six (6) Barangay Basketball/ Open Courts, two (2) Public Parks, one (1) Theme Park, two (2) Mini Zoo, three (3) Museums, one (1) Golf Course, one (1) Public Swimming Pool, three (3) Amusement Centers for Kids, two (2) Horseback Riding Track, three (3) Ziplines, one (1) Track Oval/ Baseball and Softball Field, five (5) fitness centers, four (4) squash courts and thirty-four (34) Playgrounds.

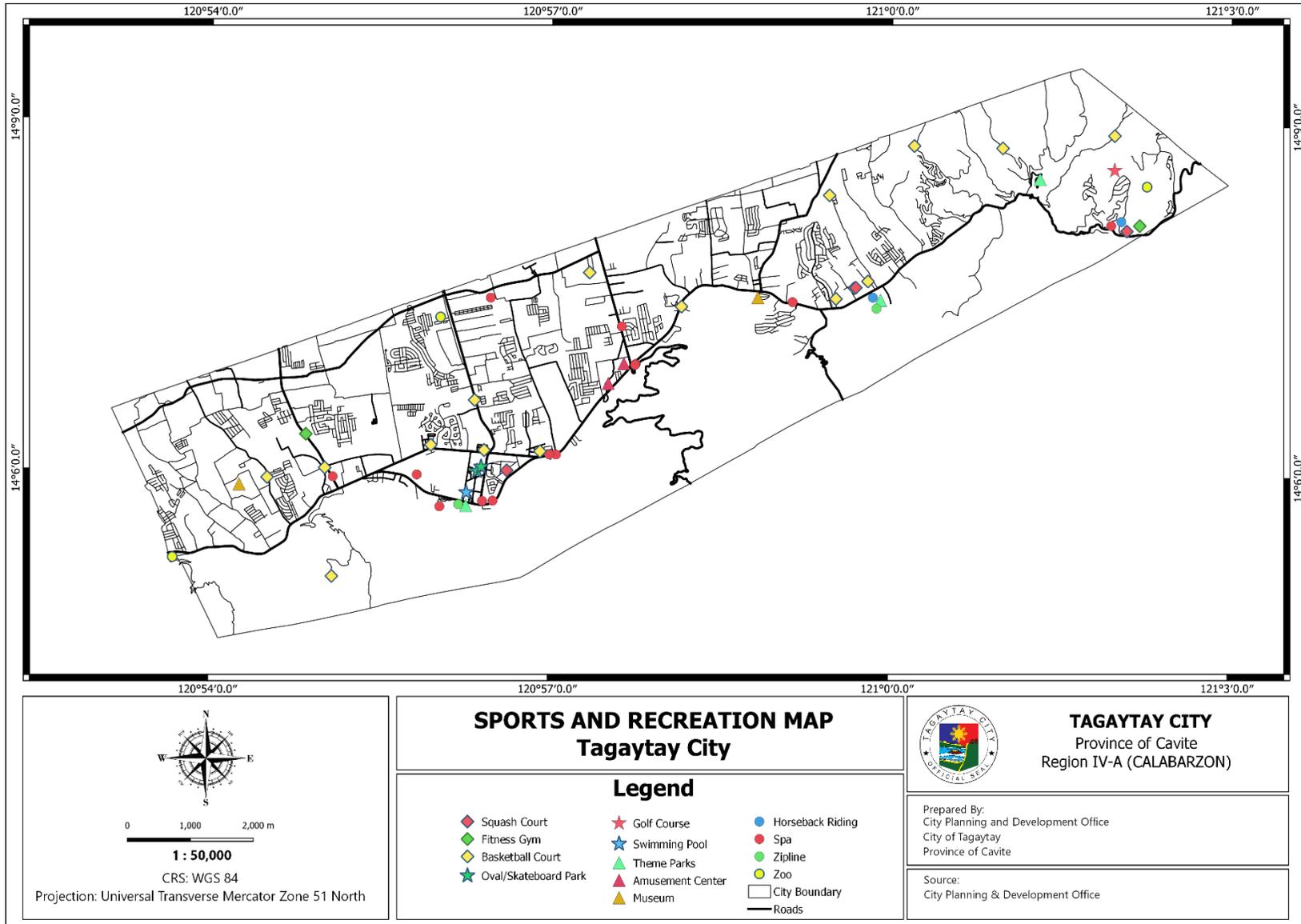
Alternatively, establishments for passive leisure interest are also available in Tagaytay. One of which is *Tagaytay Picnic Grove* being managed/ operated by the City Government. It is located at Barangay Sungay East. It offers facilities for picnicking, horseback riding, swimming, overnight stay and the now famous zipline and cable car. Another is the *Casino-Filipino*, being managed by the Philippine Amusement and Gaming Corporation (PAGCOR). *Development Academy of the Philippines (DAP)*, which is situated at Barangay Sungay East, is among the favorite venues for conventions, seminars and conferences. Various facilities that can be availed of at the DAP include pelota court, ping pong room, game room for chess and mah-jong, children's playground, covered tennis court, covered squash beating lagoon, skating rink, swimming pool and one goal basketball court. The *Philippine Judicial Academy* located at Barangay Silang Crossing East offers facilities such as dartboard, pool tables, ping-pong tables, billiard tables, swimming pools, and basketball and volleyball courts. Another is the *Residence Inn/Mini Zoo*, situated at the western part of the city, along Tagaytay-Nasugbu Road. The famous *Tagaytay Highlands and International Golf Club* at Barangay Calabuso is an exclusive golf club being managed / operated by a private firm. Facilities/amenities that can be availed at Tagaytay Highlands include: 18-hole golf course, billiard halls, ping pong tables, tennis courts, squash courts, fitness gym, swimming pool, wading pool, bridle path, bicycle and jogging trails, and gardens where one can relax and feel the refreshing breeze of Tagaytay. Shuttles and cable cars are available within the premises.

Skyranch, a leisure park is the newest tourists' destination in the city and where the Sky Eye, one of the biggest and known as the tallest Ferris wheel in the country can be found is a complete day destination for families and groups of friends. The park offers selected amusement park rides and activities. Viking, Jump Around, Log Coaster and Flying Bus are among others that can be found

inside the Sky Ranch Complex. It also offers Zipline, Sky Eye and horseback riding for an amazing view of Taal Lake and Volcano and the provinces and cities surrounding these landmarks. Other amenities include “The Venue” which can accommodate small to big gatherings and events, parking, breastfeeding station, clinic and ATMs.

With regards to sports development, all schools in the city, whether public or private, conduct physical and sports development programs for their students. These programs are being supported by the City Government through the designated Sangguniang Kabataan Coordinator and City Sports Coordinator. Inter-Barangay basketball and volleyball tournament for the youth is also being held during summer.

Map 19. Sports and Recreation Map of Tagaytay City



3.2.6 Protective Services

Police Services. The City's peace and order situation is safeguarded by the Philippine National Police (PNP). The police force falls under the jurisdiction of the Department of Interior and Local Government (DILG) which holds office at the City Hall Complex. The City has also created the Tagaytay Office of Public Safety (TOPS) under the Office of the City Mayor to support the Tagaytay City Police in maintaining peace and order in the City. The Tagaytay City Police force is composed of four (4) officers, 109 non-officers and six (62) non-uniformed personnel. They are supported by 448 Barangay Police Security Officers (BPSO) and 47 Bantay Lungsod (BL) under Tagaytay Office of Public Safety (TOPS). There is sufficient number of PNP uniformed personnel deployed in seven (7) Police Community Precincts (PCPs) strategically located in various parts of the city equipped with mobile patrol cars and communication equipments. CCTV cameras are also installed in various road intersections to monitor traffic situation in the area and possible entries and activities of some lawless elements.

In 2021, there were 15 cases of crime incidents for adults and 12 cases of crime incidents for children were reported.

To greatly improve public safety, Tagaytay CCPS will strive to meet the standard police-to-population ratio of 1:500, therefore, 361 more police are will be in need to meet this standard.

Fire Protection Services. The Bureau of Fire Protection (BFP) is mandated to protect residents from fire occurrence. Currently, there is also sufficient fire fighters equipped with fire fighting facilities and equipments including fire trucks, ladder –fire truck, communication equipments. The BPF Fire Station has transferred to the newly-constructed building at Foggy Heights Subdivision, Brgy. San Jose, Tagaytay City. Tagaytay City Fire Station with a total strength of twenty nine (29) personnel. One (1) Commissioned Officer, 26 non-commissioned officers and two (2) fire aides are present to ensure the safety of the community.

In 2021, a total of three (3) fire incidences were recorded. A residential fire in Barangay Iruhin Central, a structural fire in Barangay Kaybagal South and a vehicular fire in Barangay Silang Crossing East caused bu overheating of car engine bay.

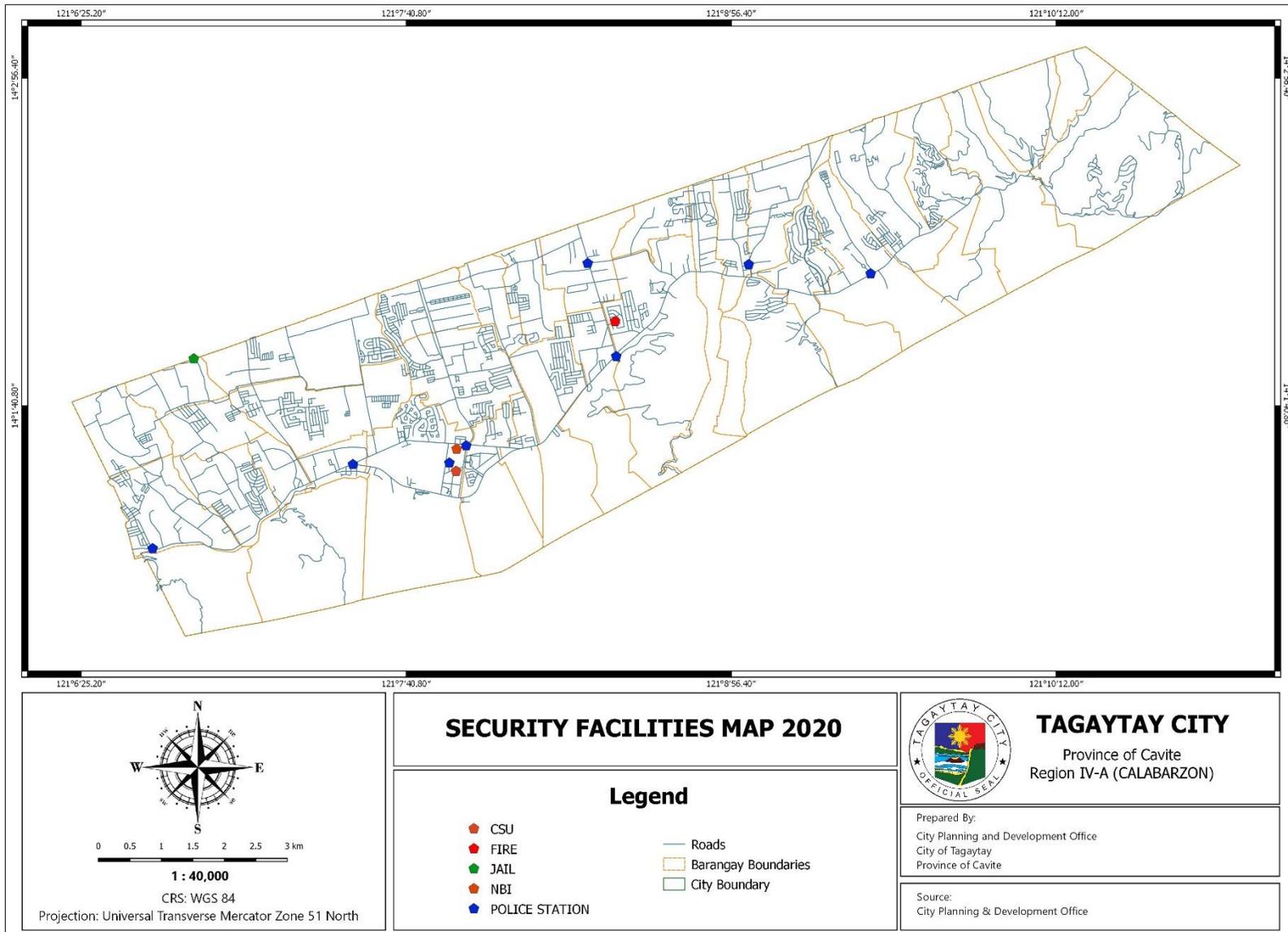
Driven and inspired by the efforts of the city government as one of the country's Most Child-Friendly LGU, the Tagaytay City Fire Station has customized the existing fire sub-station as an *Emergency Preparedness Learning Venue for Kids*. This is considered the first-ever *Fire Museum* in the country. Its main concept focuses on teaching the kids about the firefighter's job and what to do during emergencies. Children have to undergo different training stages as they start their skills enhancement journey with *Berong Bumbero*.

Bureau of Jail Management and Penology. As mandated by law, the BJMP shall direct, supervise and control the administration and operation of all district, city and municipal jails nationwide with pronged tasks of safekeeping and development of inmates. Its mission - to enhance public safety by ensuring humane safekeeping and development of Persons Deprived of Liberty (PDL) in all district, city, and municipal jails for their reintegration to society. Four major programs under the mandate of BJMP are: (1) Inmates custody, security and control program; (2) Inmates welfare and development program; (3) Decongestion program; and, (4) Good governance. Among its rehabilitation programs were to reduce recidivism of inmates includes livelihood projects, educational and vocational training, recreation and sports, and religious/spiritual activities.

These were continuously implemented to eliminate the offenders' pattern of criminal behavior and to reform them to become law-abiding and productive citizens.

Disaster Preparedness. Section 12 of Republic Act No. 10121 known as the Philippine Disaster Risk Reduction Management Act of 2010, mandates the establishment of Local Disaster Risk Reduction Management Office (LDRRMO) , in all Local Government Units including the barangays which shall be responsible in setting the direction, development, implementation and coordination of disaster risk management programs within their territorial jurisdictions.

Map 20. Security Facilities Map of Tagaytay City



3.2.7 Critical Point Facilities Exposure and Risk To Hazard

The critical point facilities observed in the study are the educational institutions, government facilities, medical/health facilities, protective services, religious institutions, residential care facility, telecommunication and water supply. The vulnerabilities considered are existing condition, proportion of structures in dilapidated or condemned condition, proportion of structures made of light materials, year of construction, and employment of resilient building design. On the other hand, adaptive capacities observed were area coverage or access to infrastructure mitigation, capacity and willingness to retrofit or relocate, insurance coverage, government investments, availability of alternative structures/sites and government regulations on hazard mitigation, zoning and structural design standards.

Exposure to Hazard

Based on the overlay analysis, those exposed to high susceptibility landslide are six educational and government institutions, two (2) religious institutions and one (1) water supply facility. Those at moderate susceptibility are all located at Barangay Dapdap West and includes only one government institution, educational institution and religious institution. Those covered by low susceptibility includes 25 educational facilities, 41 government institutions, six (6) protective services, eight (8) religious institutions, two (2) residential care facilities, 35 telecommunication facilities and 18 water supply facilities.

Risk to Hazard

Those at high risk to landslide are the water supply system at Barangay Calabuso and the water pumping station and cell site and radar system in Barangay Sambong. Those at moderate risk includes educational institutions are 32 educational institutions, 48 government institutions, 34 telecommunication facilities, 17 water supply systems, 11 religious institutions, 10 medical institutions, six (6) protective services institutions and two (2) residential care facilities. There are no facilities at low risk to landslide.

Table 52. Critical Point Facilities Exposure Database

Barangay	Facility	Type of Facility	Landslide Susceptibility	No. of Storeys	Total Area (sq.m.)	Estimated Affected Area (sq.m.)	Unit Cost/Replacement Cost	Affected Value	Existing condition	Proportion of the structure in dilapidated/condemned condition	Proportion of structure Made of light materials	Year constructed	Employing Resilient Building Design	With access/are a coverage to infrastructure related mitigation measures	Capacity and willingness to retrofit or relocate	Insurance Coverage	Government Investments	Available Alternative Sites/Structures	Government Regulations on hazard mitigation zoning and structural design standards	Risk
Asisan	Isidro Cuadra Elementary School	Educational Institution	Low	B1(3),B2(2),B3-B7(1)	1672.548	1672.548	35000	58539180	Good	20	0	1975-2015	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Asisan Barangay Hall	Government Institution	Low	2	135.445	135.445	35000	4740575	Excellent	10	0	2013-2016	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	St. Moses Chapel	Religious Institution	Low	1	335.794	335.794	35000	11752790	Good	25	0	2005	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Globe)	Telecommunication	Low	1	35	35	35000	1225000	Excellent	5	0	2018	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Dito)	Telecommunication	Low	1	35	35	35000	1225000	Excellent	5	0	2021	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Water tank (Prime Water)	Water Supply Facility	Low	1	220	220	35000	7700000	Good	5	0	2015	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Bagong Tubig	Bagong Tubig Barangay Hall	Government Institution	High	2	90.284	90.284	35000	3159940	Excellent	5	0	2021-2022	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Bagong Tubig Elementary School	Educational Institution	High	B1(1),B2(2)	324.373	324.373	35000	11353055	Good	10	0	2012-2013	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Calabuso	Calabuso Elementary School	Educational Institution	High	B1(2),B2(1),B3(2)	883.487	883.487	35000	30922045	Good	5	0	2013-2017	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Calabuso Barangay Hall	Government Institution	High	2	105.831	105.831	35000	3704085	Good	30	0	2002	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Day Care Center	Educational Institution	High	1	112.288	112.288	35000	3930080	Good	20	0	2009	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Barangay Chapel	Religious Institution	High	1	100	100	35000	3500000	Good	40	0	1990s	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Barangay Water Supply	Water Supply Facility	High	1	200	200	35000	7000000	Good	25	0	2002 / 2005	Yes	Yes	Yes	No	Yes	Yes	Yes	High
Dapdap East	Dapdap East Barangay Hall	Government Institution	High	2	86.443	86.443	35000	3025505	Good	25	0	2004	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Dapdap Elementary School	Educational Institution	High	1	863.906	863.906	35000	30236710	Good	20	0	1970-2009	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	People's Park in the Sky	Government Institution	High	2	4710.142	4710.142	35000	164854970	Poor	60	0	1980	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Dapdap West	Dapdap West Barangay Hall	Government Institution	Moderate	2	130.4	130.4	35000	4564000	Good	20	0	2012	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate

Barangay	Facility	Type of Facility	Landslide Susceptibility	No. of Storeys	Total Area (sq.m.)	Estimated Affected Area (sq.m.)	Unit Cost/Replacement Cost	Affected Value	Existing condition	Proportion of the structure in dilapidated/condemned condition	Proportion of structure Made of light materials	Year constructed	Employing Resilient Building Design	With access/are a coverage to infrastructure related mitigation measures	Capacity and willingness to retrofit or relocate	Insurance Coverage	Government Investments	Available Alternative Sites/Structures	Government Regulations on hazard mitigation zoning and structural design standards	Risk
	Lady of Fatima Day Care Center	Educational Institution	Moderate	1	48.246	48.246	35000	1688610	Good	20	0	2011	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Our Lady of Fatima Chapel	Religious Institution	Moderate	1	48.663	48.663	35000	1703205	Excellent	0	0	2022	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Francisco	Francisco Barangay Hall	Government Institution	Low	1	90.902	90.902	35000	3181570	Good	30	10	2000	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	St. Francis Child Development Center	Educational Institution	Low	1	83.465	83.465	35000	2921275	Good	30	10	2000	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	La Madelle Academy	Educational Institution	Low	B1(1), B2(2)	326.326	326.326	35000	11421410	Good	20	0	2009	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Francisco Health Center	Medical Institution	Low	1	90.892	90.892	35000	3181220	Fair	50	0	1980	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Barangay Nutrition Council's Office	Medical Institution	Low	1	62.941	62.941	35000	2202935	Good	30	0	2000	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	St. Francis of Assisi	Religious Institution	Low	1	114.301	114.301	35000	4000535	Fair	50	0	1980s	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Globe)	Telecommunication	Low	1	35	35	35000	1225000	Good	5	0	2010	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Water Tank (Prime Water)	Water Supply Facility	Low	1	200	200	35000	7000000	Good	5	0	2010	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Guinhawa North	Tagaytay City Septage Treatment Plant	Government Institution	Low	2	2706.725	2706.725	35000	94735375	Excellent	5	0	2021-Ongoing	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Office of the City Agriculturist	Government Institution	Low	2	584.675	584.675	35000	20463625	Very Good	10	0	2020	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Guinhawa South	Tagaytay City Integrated School	Educational Institution	Low	B1(4), B2(5)	5604.296	5604.296	35000	196150360	Very Good	10	0	2016	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Geriatrics Nursing Home	Residential Care Facility	Low	2	1023.332	1023.332	35000	35816620	Very Good	10	0	2015	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Care Rehabilitation Center	Residential Care Facility	Low	B1(2), B2-B7(1)	747.98	747.98	35000	26179300	B1-B5(Good), B6-B7(Very Good)	10	0	B1-B5(1993), B6-B7(2018)	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Globe)	Telecommunication	Low	1	35	35	35000	1225000	Excellent	5	0	2019	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate

Barangay	Facility	Type of Facility	Landslide Susceptibility	No. of Storeys	Total Area (sq.m.)	Estimated Affected Area (sq.m.)	Unit Cost/Replacement Cost	Affected Value	Existing condition	Proportion of the structure in dilapidated/condemned condition	Proportion of structure Made of light materials	Year constructed	Employing Resilient Building Design	With access/are a coverage to infrastructure related mitigation measures	Capacity and willingness to retrofit or relocate	Insurance Coverage	Government Investments	Available Alternative Sites/Structures	Government Regulations on hazard mitigation zoning and structural design standards	Risk
	Water Tank(Prime Water)	Water Supply Facility	Low	1	220	220	35000	7700000	Good	10	0	2005	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Iruhin Central	Iruhin Central Barangay Hall	Government Institution	Low	2	93.61	93.61	35000	3276350	Good	30	0	2000	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Water Tank (Prime Water)	Water Supply Facility	Low	1	220	220	35000	7700000	Good	10	0	2005	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Iruhin East	Iruhin East Barangay Hall	Government Institution	High	2	76.12	76.12	35000	2664200	Excellent	5	0	2022	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Lady of Love Day Care Center	Educational Institution	High	1	47.502	47.502	35000	1662570	Very Good	10	0	2016	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Saint John the Baptist Chapel	Religious Institution	High	2	4831.628	4831.628	35000	169106980	Good	30	0	2000	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Iruhin West	Bulalo Elementary School	Educational Institution	Low	B1(1),B2(2),B3-B6(1)	949.941	949.941	35000	33247935	B1,B4,B6(Fair),B3,B5(Poor),B2(Good)	B1,B4,B6(50),B3,B5(70),B2(20)	0	B1(1989), B2(2011), B3-B4(1986), B5(1978),B6(1980)	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Water Tank (Prime Water)	Water Supply Facility	Low	1	220	220	35000	7700000	Excellent	5	0	2021	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Kaybagal Central	Kaybagal Central Barangay Hall	Government Institution	Low	1	183.238	183.238	35000	6413330	Good	10	0	1998-1999	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Carlos S. Batino Sr. Elementary School	Educational Institution	Low	B1-B5(2),B6-B7(1)	4107.127	4107.127	35000	143749445	B1,B4,B6(Very Good),B2,B3,B5(Good),B6(Poor)	B1,B4,B6(10),B3(20),B2,B5(25),B6(70)	0	2000-2019	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Tropical Innovative School of Excellence (TISE)	Educational Institution	Low	B1,B2,B6(2),B3(4),B4-B5(3)	4124.682	4124.682	35000	144363870	B1-B3(Good), B4-B6(Very Good)	B1-B3(20),B4-B6(10)	0	2007-2017	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Dito)	Telecommunication	Low	1	35	35	35000	1225000	Excellent	5	0	2020	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate

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	Cell Site (Dito)	Telecommunication	Low	1	35	35	35000	1225000	Excellent	5	0	2020	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Dito)	Telecommunication	Low	1	35	35	35000	1225000	Excellent	5	0	2020	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Smart)	Telecommunication	Low	1	40	40	35000	1400000	Excellent	5	0	2021	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Water tank (Prime Water)	Water Supply Facility	Low	1	220	220	35000	7700000	Good	10	0	2010	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Kaybagal North	Kaybagal North Barangay Hall	Government Institution	Low	B1(2), B2(1)	167.093	167.093	35000	5848255	Good	20	0	2008	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Kaybagal South	Kaybagal South Barangay Hall	Government Institution	Low	B1(2), B2(1)	128.8	128.8	35000	4508000	Fair	50	0	1985	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	City College of Tagaytay	Educational Institution	Low	B1(3), B2(5)	5544.224	5544.224	35000	194047840	B1(Good), B2(Very Good)	B1(30), B2(10)	0	2011, 2016	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	TCNHS-Integrated High School Annex Bldg.	Educational Institution	Low	4	5136.939	5136.939	35000	179792865	Excellent	5	0	2021	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	National Bureau of Investigation	Government Institution	Low	3	516.1	516.1	35000	18063500	Very Good	10	0	2020	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Hall of Justice and Legislative Bldg.	Government Institution	Low	3	1922.138	1922.138	35000	67274830	Very Good	10	0	2017	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	DILG-BJMP	Government Institution	Low	2	329.505	329.505	35000	11532675	Good	40	0	1997	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Tagaytay Component City Police Station	Government Institution	Low	B1(1), B2(2)	394.293	394.293	35000	13800255	Good	40	0	1995	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	PHIVOLCS	Government Institution	Low	2	322.133	322.133	35000	11274655	Excellent	0	0	2022	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Tagaytay City Hall	Government Institution	Low	4	1990.564	1990.564	35000	69669740	Good	30	0	1996	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Tagaytay City Oval and Skate Park	Government Institution	Low	0	26836.018	26836.018	35000	939260630	Good	30	0	2008	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	City Health Office	Medical Institution	Low	2	284.161	284.161	35000	9945635	Good	30	0	2000	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Mother of Fair Love Chapel	Religious Institution	Low	1	354.717	354.717	35000	12415095	Good	25	0	2004	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Tagaytay City Police Substation	Protective Services Institution	Low	1	263.709	263.709	35000	9229815	Excellent	5	0	2011	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate

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	Cell Site (Globe)	Telecommunication	Low	1	40	40	35000	1400000	Fair	5	0	1993	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Mag Asawang Ilat	Water Tank (Prime Water)	Water Supply Facility	Low	1	220	220	35000	7700000	Good	5	0	1996	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Mag-asawang Ilat Barangay Hall	Government Institution	Low	3	177.099	177.099	35000	6198465	Very Good	10	0	2015-2017	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Maharlika East	Maharlika East Barangay Hall	Government Institution	Low	3	148.596	148.596	35000	5200860	Good	20	0	2009	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Maharlika Elementary School	Educational Institution	Low	B1(3),B2,B3,B5(2),B1(1)	1903.974	1903.974	35000	66639090	B1,B5(Very Good),B2-B3(Good),B4(Fair)	B1,B5(10),B2(20),B3(25),B4(50)	0	B1(2015),B2(2009),B3(2005),B4(1979),B5(2016)	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Maharlika West	Maharlika West Barangay Hall	Government Institution	Low	2	70.818	70.818	35000	2478630	Very Good	10	0	2017	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Smart)	Telecommunication	Low	1	40	40	35000	1400000	Good	10	0	2004	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Maitim Central	Water tank (Prime Water)	Water Supply Facility	Low	1	220	220	35000	7700000	Good	10	0	2005	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Maitim II Central	Maitim II Central Barangay Hall	Government Institution	Low	2	140.446	140.446	35000	4915610	Good	20	0	2010	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Good Shepherd Child Development Center	Educational Institution	Low	1	159.545	159.545	35000	5584075	Good	20	0	2011	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Barangay Chapel	Religious Institution	Low	1	144.344	144.344	35000	5052040	Fair	50	0	1984	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Hanggang sa Kabilang Buhay Chapel	Government Institution	Low	1	217.127	217.127	35000	7599445	Good	25	0	2005	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Maitim II East	Cell Site (Globe)	Telecommunication	Low	1	40	40	35000	1400000	Good	10	0	2004	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Smart)	Telecommunication	Low	1	40	40	35000	1400000	Good	10	0	2010	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Sun)	Telecommunication	Low	1	40	40	35000	1400000	Good	10	0	2010	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Dito)	Telecommunication	Low	1	40	40	35000	1400000	Excellent	5	0	2020	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate

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	Water Tank (Prime Water)	Water Supply Facility	Low	1	220	220	35000	7700000	Good	10	0	1998	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Maitim II East Barangay Hall	Government Institution	Low	2	175.13	175.13	35000	6129550	Good	20	0	2010	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Day Care Center	Educational Institution	Low	2	111.238	111.238	35000	3893330	Good	20	0	2000	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Maitim II Elementary School	Educational Institution	Low	B1(10), B2(25), B3-B6(50)	5406.966	5406.966	35000	189243810	B1(Very Good),B2(Good),B3-B6(Fair)	B1(10),B2(25),B3-B6(50)	0	B1(2016),B2(2005),B3(1980), B4-B6(1975)	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Our Lady of Lourdes Chapel	Religious Institution	Low	1	195.446	195.446	35000	6840610	Good	40	0	1980s	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Police Station	Protective Services Institution	Low	1	226.933	226.933	35000	7942655	Excellent	5	0	2021	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Ospital ng Tagaytay	Medical Institution	Low	4	4593.288	4593.288	35000	160765080	Excellent	5	0	2022	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Maitim II West	Maitim II West Barangay Hall	Government Institution	Low	2	114.69	114.69	35000	4014150	Good	20	0	2012	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Disneyland Day Care Center	Educational Institution	Low	1	72.252	72.252	35000	2528820	Good	20	0	2012	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Mendez Crossing East	Mendez Crossing East Barangay Hall	Government Institution	Low	2	116.835	116.835	35000	4089225	Very Good	10	0	2018	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Mendez Crossing Elementary School	Educational Institution	Low	B1(2),B2(3),B3-B6(1)	1656.521	1656.521	35000	57978235	B1,B2(Good), B3,B4(Poor), B5,B6(Fair)	B1,B2(25), B3,B4(70), B5,B6(50)	0	B1(2006), B2(2008), B3-B6(1975)	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Tagaytay City National High School	Educational Institution	Low	B1(1),B2,B10(2),B3,B4,B7,B9(3),B5,B6,B8(4)	3678	3678	35000	128730000	B1,B3,B4,B9,B10(Good), B2,B5-B8(Very Good)	B1,B3,B4(30), B2,B5-B8(10),B9(20),B10(25)	0	2001-2019	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate

Barangay	Facility	Type of Facility	Landslide Susceptibility	No. of Storeys	Total Area (sq.m.)	Estimated Affected Area (sq.m.)	Unit Cost/Replacement Cost	Affected Value	Existing condition	Proportion of the structure in dilapidated/condemned condition	Proportion of structure Made of light materials	Year constructed	Employing Resilient Building Design	With access/are a coverage to infrastructure related mitigation measures	Capacity and willingness to retrofit or relocate	Insurance Coverage	Government Investments	Available Alternative Sites/Structures	Government Regulations on hazard mitigation zoning and structural design standards	Risk
	Cavite Tagaytay City Tourist Police	Protective Services Institution	Low	2	1019.521	1019.521	35000	35683235	Excellent	5	0	2015	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Mendez Crossing West	Mendez Crossing West Barangay Hall	Government Institution	Low	4	167.976	167.976	35000	5879160	Very Good	10	0	2013	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Rose of Sharon Child Development Center	Educational Institution	Low	1	136.109	136.109	35000	4763815	Very Good	10	0	2017	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Alaban Medical Clinic	Medical Institution	Low	2	101.337	101.337	35000	3546795	Good	30	0	1998	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Neogan	Neogan Barangay Hall	Government Institution	Low	2	125.246	125.246	35000	4383610	Good	40	0	1993	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Neogan Elementary School	Educational Institution	Low	B1(2),B2(3)	2185.226	2185.226	35000	76482910	Good	20	0	2011	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Barangay Chapel	Religious Institution	Low	1	165.839	165.839	35000	5804365	Fair	50	0	1980s	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Sun)	Telecommunication	Low	1	35	35	35000	1225000	Good	10	0	2010	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Globe)	Telecommunication	Low	1	45	45	35000	1575000	Excellent	5	0	2022	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Patutong Malaki North	Patutong Malaki North Barangay Hall	Government Institution	Low	2	81.312	81.312	35000	2845920	Good	40	0	1997	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	St. Raphael Child Development Center	Educational Institution	Low	1	251.56	251.56	35000	8804600	Good	40	0	1995	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Patutong Malaki South	Patutong Malaki South Barangay Hall	Government Institution	Low	2	113	113	35000	3955000	Excellent	5	0	2022	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Rocillo Maternity Clinic	Medical Institution	Low	1	232.226	232.226	35000	8127910	Good	20	0	2012	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Patutong Malaki Elementary School	Educational Institution	Low	B1(1),B2(2),B3(3),B4(1),B5(4)	311.965	311.965	35000	10918775	B1-B4(Good), B5(Excellent)	B1,B2,B4(40),B3(25),B5(0)	0	1997,2007, 2017-Ongoing	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Dito)	Telecommunication	Low	1	40	40	35000	1400000	Excellent	5	0	2020	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate

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	Cell Site (Dito)	Telecommunication	Low	1	40	40	35000	1400000	Excellent	5	0	2020	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Dito)	Telecommunication	Low	1	40	40	35000	1400000	Excellent	5	0	2020	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Common)	Telecommunication	Low	1	50	50	35000	1750000	Excellent	5	0	2020	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Water tank (Prime Water)	Water Supply Facility	Low	1	220	220	35000	7700000	Good	10	0	2007	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Sambong	Sambong Barangay Hall	Government Institution	High	2	100	100	35000	3500000	Good	40	0	1995	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Sambong Elementary School	Educational Institution	High	B1(1),B2(2), B3-B4(1)	692.89	692.89	35000	24251150	Good	20-40	0	1990s-2008	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Water Pumping Station	Water Supply Facility	Low	1	220	220	35000	7700000	Fair	20	0	1980	Yes	Yes	Yes	No	Yes	Yes	Yes	High
	Cell Site and Radar System	Telecommunication	Low	1	4966.179	4966.179	35000	173816265	Fair	20	0	1970	Yes	Yes	Yes	No	Yes	Yes	Yes	High
San Jose	San Jose Barangay Hall 1	Government Institution	Low	3	110.89	110.89	35000	3881150	Excellent	0	0	2021-2022	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Fire Station	Government Institution	Low	3	302.327	302.327	35000	10581445	Very Good	10	0	2019	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	San Jose Barangay Hall 3	Government Institution	Low	2	115.942	115.942	35000	4057970	Good	25	0	2004	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	San Jose Barangay Hall 2	Government Institution	Low	2	105.816	105.816	35000	3703560	Good	40	0	1994	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Angel's Crib Maternity	Medical Institution	Low	1	396.149	396.149	35000	13865215	Excellent	5	0	2021	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Royal Care Dialysis Center	Medical Institution	Low	1	89.852	89.852	35000	3144820	Very Good	10	0	2016	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Globe)	Telecommunication	Low	1	50	50	35000	1750000	Good	10	0	1998	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Smart)	Telecommunication	Low	1	50	50	35000	1750000	Excellent	5	0	2022	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Digitel)	Telecommunication	Low	1	50	50	35000	1750000	Good	10	0	1996	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Silang Crossing East	Silang Crossing East Barangay Hall	Government Institution	Low	2	212.192	212.192	35000	7426720	Good	20	0	2010	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate

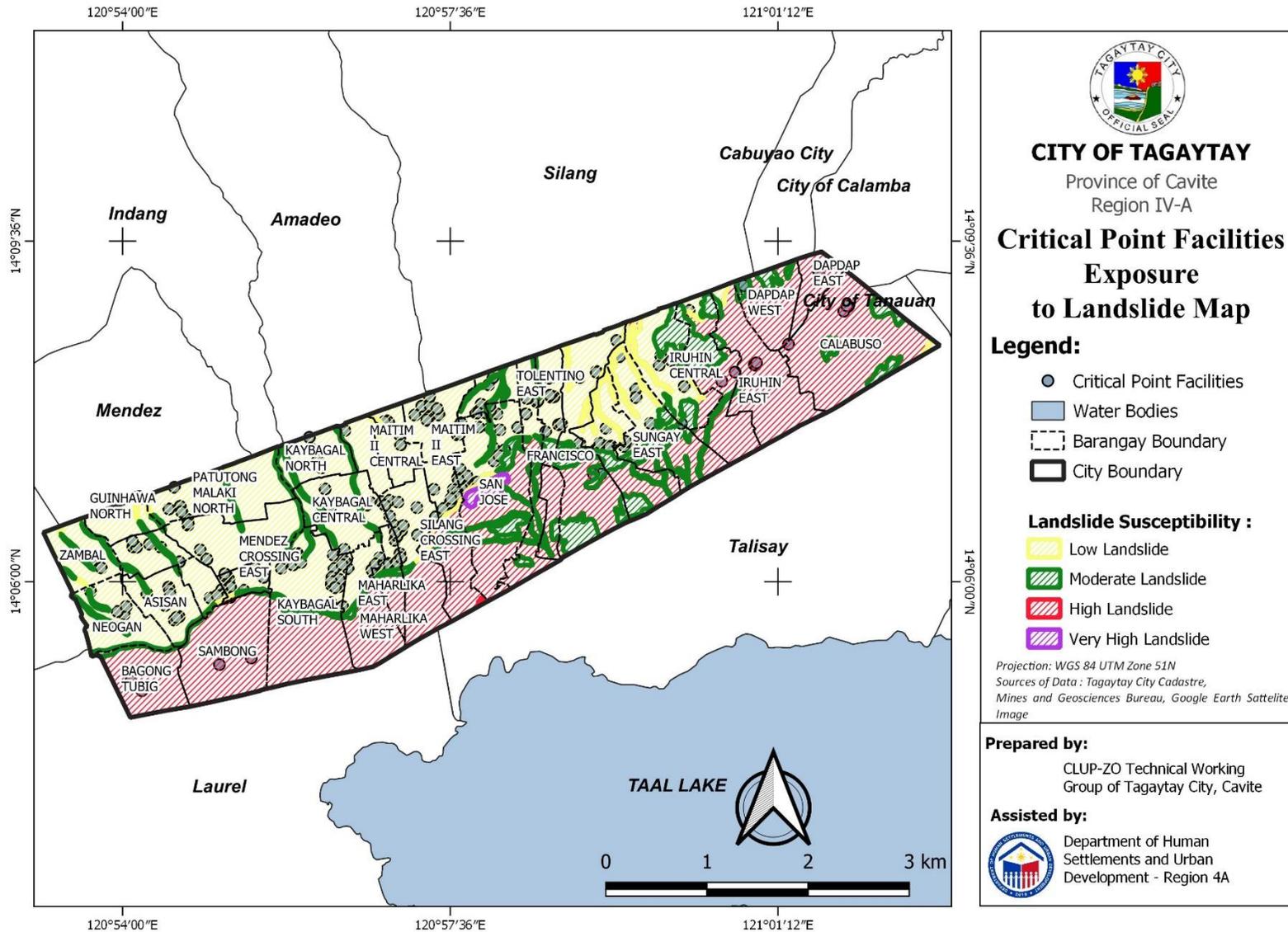
Barangay	Facility	Type of Facility	Landslide Susceptibility	No. of Storeys	Total Area (sq.m.)	Estimated Affected Area (sq.m.)	Unit Cost/Replacement Cost	Affected Value	Existing condition	Proportion of the structure in dilapidated/condemned condition	Proportion of structure Made of light materials	Year constructed	Employing Resilient Building Design	With access/are a coverage to infrastructure related mitigation measures	Capacity and willingness to retrofit or relocate	Insurance Coverage	Government Investments	Available Alternative Sites/Structures	Government Regulations on hazard mitigation zoning and structural design standards	Risk
	Philippine Judicial Academy	Educational Institution	Low	B1(4),B2,B3(1)	21912.195	21912.195	35000	766926825	Good	20	0	2009	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Tagaytay Medical Center	Medical Institution	Low	7	2668.387	2668.387	35000	93393545	Good	20	0	2009	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Ormasa-Pe?a Pediatric Clinic	Medical Institution	Low	1	118.147	118.147	35000	4135145	Excellent	5	0	2023	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Police Station	Protective Services Institution	Low	1	252.19	252.19	35000	8826650	Good	10	0	2005	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Dito)	Telecommunication	Low	1	50	50	35000	1750000	Excellent	5	0	2021	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Silang Crossing West	Silang Crossing West Barangay Hall	Government Institution	Low	2	292.576	292.576	35000	10240160	Good	30	0	2000	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site(Smart)	Telecommunication	Low	1	50	50	35000	1750000	Good	10	0	2009	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site(Globe)	Telecommunication	Low	1	50	50	35000	1750000	Good	10	0	2014	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Water Tank (Prime Water)	Water Supply Facility	Low	1	220	220	35000	7700000	Good	10	0	1999	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Sungay East	Sungay East Barangay Hall	Government Institution	Low	B1(1), B2(2)	116.969	116.969	35000	4093915	Fair	50	0	1989	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Little Star Child Development Center	Educational Institution	Low	1	42.464	42.464	35000	1486240	Good	40	0	1998	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Sungay Elementary School	Educational Institution	Low	B1,B4,B5,B7(1), B2,B6(2), B3(3)	2597.355	2597.355	35000	90907425	B1-B3(Good), B4(Very Good), B5-B7(Good)	B1,B7(25), B2,B3,B5,B6(20), B4(10)	0	B1,B7(2007), B2-B3(2011), B4(2019), B5-B6(2012)	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	St. Michael Chapel	Religious Institution	Low	1	141.386	141.386	35000	4948510	Good	40	0	1996	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Picnic Grove Police Outpost	Protective Services Institution	Low	1	188.26	188.26	35000	6589100	Excellent	5	0	2012	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Globe)	Telecommunication	Low	1	50	50	35000	1750000	Excellent	5	0	2019	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Smart)	Telecommunication	Low	1	50	50	35000	1750000	Excellent	5	0	2021	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate

Barangay	Facility	Type of Facility	Landslide Susceptibility	No. of Storeys	Total Area (sq.m.)	Estimated Affected Area (sq.m.)	Unit Cost/ Replacement Cost	Affected Value	Existing condition	Proportion of the structure in dilapidated/ condemned condition	Proportion of structure Made of light materials	Year constructed	Employing Resilient Building Design	With access/are a coverage to infrastructure related mitigation measures	Capacity and willingness to retrofit or relocate	Insurance Coverage	Government Investments	Available Alternative Sites/Structures	Government Regulations on hazard mitigation zoning and structural design standards	Risk
	Cell Site (Dito)	Telecommunication	Low	1	50	50	35000	1750000	Excellent	5	0	2020	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Water Tank (Prime Water)	Water Supply Facility	Low	1	220	220	35000	7700000	Good	10	0	2005	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Water Tank (Prime Water)	Water Supply Facility	Low	1	220	220	35000	7700000	Good	10	0	2005	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Sungay West	Sungay West Barangay Hall	Government Institution	Low	2	134.659	134.659	35000	4713065	Good	30	0	1996	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	CDRRM Office	Government Institution	Low	4	340.481	340.481	35000	11916835	Good	10	0	2021	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	BFP Substation	Government Institution	Low	2	90.023	90.023	35000	3150805	Excellent	5	0	2020	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Water Tank (Prime Water)	Water Supply Facility	Low	1	220	220	35000	7700000	Good	10	0	2000	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Water Tank (Prime Water)	Water Supply Facility	Low	1	220	220	35000	7700000	Excellent	5	0	2021	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Smart)	Telecommunication	Low	1	40	40	35000	1400000	Good	10	0	2003	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Globe)	Telecommunication	Low	1	40	40	35000	1400000	Excellent	5	0	2021	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Tagaytay City Evacuation Center	Government Institution	Low	2	970.763	970.763	35000	33976705	Excellent	5	0	2021	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Tolentino East	Tolentino East Barangay Hall	Government Institution	Low	2	159.67	159.67	35000	5588450	Good	30	0	1998	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Police Station	Protective Services Institution	Low	2	85.606	85.606	35000	2996210	Good	10	0	2010	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Dito Telecom)	Telecommunication	Low	1	40	40	35000	1400000	Excellent	5	0	2020	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Smart)	Telecommunication	Low	1	35	35	35000	1225000	Good	10	0	2009	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Cell Site (Dito)	Telecommunication	Low	1	40	40	35000	1400000	Excellent	5	0	2020	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Water Tank(Prime Water)	Water Supply Facility	Low	1	220	220	35000	7700000	Good	10	0	2005	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Tolentino West	Tolentino West Barangay Hall	Government Institution	Low	2	107.588	107.588	35000	3765580	Good	40	0	1997	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Francisco P. Tolentino Integrated School	Educational Institution	Low	4	2896.96	2896.96	35000	101393600	B1,B2,B4(Good),B3(B1,B2,B4(25),B3(10)	B1,B2,B4(25),B3(10)	0	B1,B2(2003),B3(2016),	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate

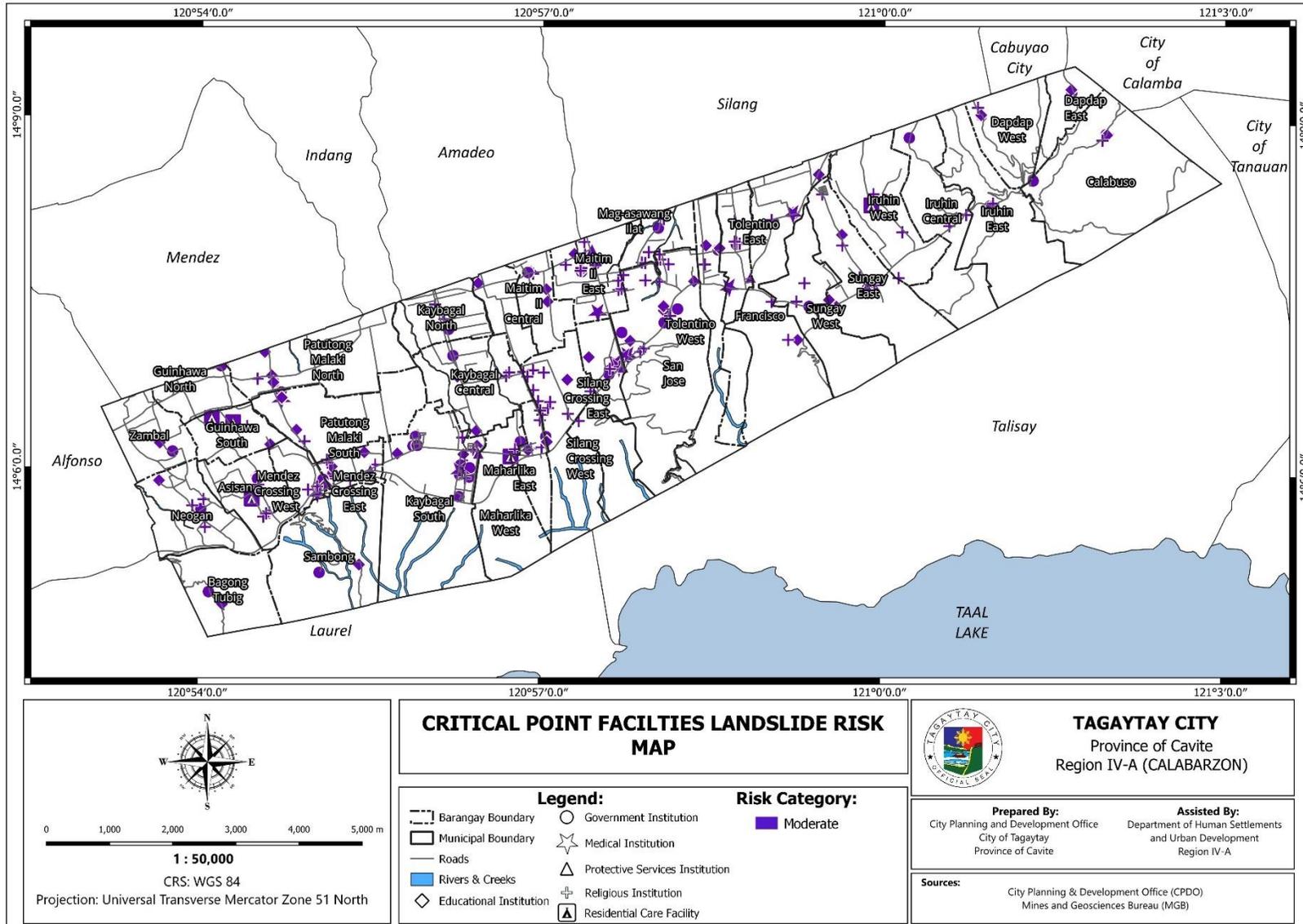
Barangay	Facility	Type of Facility	Landslide Susceptibility	No. of Storeys	Total Area (sq.m.)	Estimated Affected Area (sq.m.)	Unit Cost/Replacement Cost	Affected Value	Existing condition	Proportion of the structure in dilapidated/condemned condition	Proportion of structure Made of light materials	Year constructed	Employing Resilient Building Design	With access/are a coverage to infrastructure related mitigation measures	Capacity and willingness to retrofit or relocate	Insurance Coverage	Government Investments	Available Alternative Sites/Structures	Government Regulations on hazard mitigation zoning and structural design standards	Risk
									Very Good)			B4(2004)								
	Shim International School	Educational Institution	Low	B1(2),B2(3)	3545.275	3545.275	35000	124084625	Good	25	0	2005	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	St. Joseph the Worker Chapel	Religious Institution	Low	1	279.649	279.649	35000	9787715	Good	25	0	2007	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
Zambal	Zambal Barangay Hall	Government Institution	Low	2	133.616	133.616	35000	4676560	Excellent	5	0	2021	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate
	Water Tank (Prime Water)	Water Supply Facility	Low	1	220	220	35000	7700000	Good		0	2002	Yes	Yes	Yes	No	Yes	Yes	Yes	Moderate

Source: CDRA Results (2023)

Map 21. Critical Point Facilities Exposure to Landslide Map



Map 22. Critical Point Facilities Landslide Risk Map



Chapter 4. LOCAL ECONOMY

4.1 The Primary sector

4.1.1 Agricultural Crops

Agriculture has been the traditional economic base of Tagaytay City as such will remain be a significant sector in the city's economic development.

While soil characteristics of the City are generally highly suitable for agriculture, topography on the other hand, is determined as the natural constraint, which has limited available land area that may be conveniently cultivated. With very rugged topography in the ridge area and eastern section of the city, only about 2,304 hectares of 34.83% of the city's total land area of 6,500 hectares are highly suitable for cultivation. Because of this natural constraint, substantial area of the agriculturally unsuited land, the steep land which comprise the southeastern part of central part of the ridge have been pressured to shifting diversified crops cultivation.

The proven adaptability of the Tagaytay land to various cultivation encourages shifting of agricultural lands to high-income crops. Because of unlimited market for and high income derived from coffee, substantial portion of the city's land have been developed into coffee farms.

As per City Nutrition Office report as of January 2020, the total number of households with vegetable gardens is 18,912.

4.1.1.1 Agricultural Croplands

Although Tagaytay is rapidly transforming into a prime metropolis and is considered as a tourism area, upgrading the income level as well as the enhancement of its agricultural facilities is still one of the main thrusts of the City Government. Agricultural production occupies 1,081.784 hectares or 16.643% of the total land area. The primary agricultural crops in Tagaytay are: coffee that occupies the largest portion with 542.563 hectares or 8.347% of the total land area; followed by pineapple with 331.076 hectares (5.093%), banana intercropped with other fruit trees such as guyabano, jackfruit, papaya, and avocado occupy 97.159 hectares or 1.5% of the total land area. Other crops include vegetables (59.427 ha.), root crops (40.05 ha), and ornamental and bonsai plants (7.08 ha), among others. Production volume and value per crop are shown in Table 45.

4.1.1.2 Crop Production

Cropland is land used for the cultivation of crops, both temporary (annuals) and permanent (perennials). The leading crops produced are pineapple, root crops, coffee, banana, and upland vegetables in terms of volumes produced. With regards to land area, the most extensively grown crops occupying the farm land are coffee, pineapple, banana, upland vegetables and root crops.

Only a few infrastructures are in place in these production areas such as rain shelters and green houses. Technical assistance to these infrastructures is provided by the City Agriculture Office to all farmers.

Table 53. Agricultural Crops in Tagaytay City (2017)

Major Crop	Barangay	Area (Hectares)	Production	
			Volume (MT)	Value (Php)
Coffee	Asisan	10.68	9.39	702,372.00
	Bagong Tubig		-	-
	Calabuso	38.72	34.07	2,548,436.00
	Dapdap East	6.5	5.72	427,856.00
	Dapdap West	26	22.88	1,711,424.00
	Francisco	9.5	8.36	625,328.00
	Guinhawa North	15.5	13.64	1,020,025.00
	Guinhawa South	13.58	11.95	893,860.00
	Iruhin Central	2.602	2.28	170,544.00
	Iruhin East	32.18	28.31	1,407,064.00
	Iruhin West	11.2	9.68	724,064.00
	Kaybagal Central	20.2	17.776	977,680.00
	Kaybagal North	35.45	31.196	1,715,780.00
	Kaybagal South	26.151	23.01	1,721,148.00
	Mag-asawang Ilat	9.05	7.964	438,020.00
	Maharlika East		-	-
	Maharlika West	1.15	1.012	86,020.00
	Maitim II Central	30.45	26.79	2,277,150.00
	Maitim II East	27.68	24.35	1,821,975.00
	Maitim II West	26.22	23.07	1,960,950.00
	Mendez Crossing East		-	-
	Mendez Crossing West		-	-
	Neogan	13.15	11.572	835,035.52
	Patutong Malaki North	20.25	17.82	1,332,936.00
	Patutong Malaki South	17.75	15.62	1,168,376.00
	Sambong	3.9	3.43	256,564.00
	San Jose	22.2	12.21	671,550.00
	Silang Crossing East	0.6	0.528	44,800.00
	Silang Crossing West	6.3	5.54	471,240.00
	Sungay East	4.5	3.96	296,208.00
	Sungay West	3.5	3.08	230,384.00
	Tolentino East	53.5	47.08	2,589,400.00
	Tolentino West	17.25	15.18	834,900.00
Zambal	36.85	32.428	242,561.44	
<i>Sub-Total</i>		542.563	469.896	
Pineapple	Asisan	11.69	327.32	8,183,000.00
	Bagong Tubig		-	-
	Calabuso		-	-
	Dapdap East	1.5	42	1,050,000.00
	Dapdap West	10.185	285.18	7,129,500.00
	Francisco	27.127	760.9	19,022,500.00
	Guinhawa North	10.2	285.6	7,140,000.00
	Guinhawa South	9.53	266.84	6,671,000.00
	Iruhin Central	33.1	926.8	23,170,000.00
	Iruhin East	13.25	371	9,275,000.00
	Iruhin West	15.165	424.62	10,615,500.00
	Kaybagal Central	7.65	214.2	5,355,000.00
	Kaybagal North	15.3	428.4	8,568,000.00
	Kaybagal South	10.5	294	7,350,000.00
	Mag-asawang Ilat	5.05	141.4	3,535,000.00

	Maharlika East		-	-
	Maharlika West	1.7	47.6	1,190,000.00
	Maitim II Central	12.75	357	8,925,000.00
	Maitim II East	11.6	324.8	8,120,000.00
	Maitim II West	12.875	360.5	9,012,500.00
	Mendez Crossing East	0.45	12.6	315,000.00
	Mendez Crossing West	3.8	106.4	2,660,000.00
	Neogan	3.65	102.2	2,555,000.00
	Patutong Malaki North	12.05	337.4	8,435,000.00
	Patutong Malaki South	8.72	244.16	6,104,000.00
	Sambong	6	168	4,200,000.00
	San Jose	15.3	428.4	10,710,000.00
	Silang Crossing East	3	84	2,100,000.00
	Silang Crossing West	6.3	176.4	4,410,000.00
	Sungay East	15.135	423.78	10,594,500.00
	Sungay West	8.575	240.1	6,002,500.00
	Tolentino East	12.6	352.8	7,056,000.00
	Tolentino West	12.25	343	6,860,000.00
	Zambal	140.026	392.728	9,818,200.00
<i>Sub-Total</i>		<i>457.028</i>	<i>9270.128</i>	
<i>Banana</i>	Asisan	1.89	15.12	453,600.00
	Bagong Tubig		-	-
	Calabuso	2.504	20.032	600,960.00
	Dapdap East	0.553	4.424	132,720.00
	Dapdap West	2.633	21.064	631,920.00
	Francisco	1.99	15.92	477,600.00
	Guinhawa North	3.879	31.032	930,960.00
	Guinhawa South	3.834	30.672	920,160.00
	Iruhin Central	1.982	15.856	475,680.00
	Iruhin East	3.68	29.44	883,200.00
	Iruhin West	1.91	15.28	458,400.00
	Kaybagal Central	1.27	10.16	304,800.00
	Kaybagal North	1.99	15.92	477,600.00
	Kaybagal South	0.788	6.304	189,120.00
	Mag-asawang Ilat	0.72	5.76	172,800.00
	Maharlika East	-	-	-
	Maharlika West	.027	2.16	64,800.00
	Maitim II Central	2.12	16.96	508,800.00
	Maitim II East	3.03	24.24	727,200.00
	Maitim II West	2.88	23.04	691,200.00
	Mendez Crossing East		-	-
	Mendez Crossing West		-	-
	Neogan	2.06	16.48	494,400.00
	Patutong Malaki North	3.703	29.624	888,720.00
	Patutong Malaki South	3.762	30.096	902,880.00
	Sambong	1.594	12.752	382,560.00
	San Jose	2.3	18.4	552,000.00
	Silang Crossing East	0.9	7.2	216,000.00
	Silang Crossing West	0.55	4.4	132,000.00
	Sungay East	1.95	15.6	468,000.00
	Sungay West	1.47	11.76	352,800.00
	Tolentino East	2.22	17.76	532,800.00
	Tolentino West	1.45	11.6	348,000.00
	Zambal	3.437	27.496	824,880.00

<i>Sub-total</i>		63.076	506.552	
<i>Root Crops</i>	Asisan	0.7	10.5	525,000.00
	Bagong Tubig	1.03	15.45	772,500.00
	Calabuso	0.37	5.55	277,500.00
	Dapdap East	-	-	-
	Dapdap West	1.05	15.75	787,500.00
	Francisco	0.41	6.15	307,500.00
	Guinhawa North	1.06	15.9	795,000.00
	Guinhawa South	2.52	37.8	1,890,000.00
	Iruhin Central	1.9	28.5	1,425,000.00
	Iruhin East	1.63	24.45	1,222,500.00
	Iruhin West	1.15	17.25	862,500.00
	Kaybagal Central	1.9	28.5	1,282,500.00
	Kaybagal North	1.38	20.7	828,000.00
	Kaybagal South	2.13	31.95	1,597,500.00
	Mag-asawang Ilat	0.4	6	300,000.00
	Maharlika East	1.17	17.55	877,500.00
	Maharlika West	0.91	13.65	682,500.00
	Maitim II Central	0.92	13.8	690,000.00
	Maitim II East	-	-	-
	Maitim II West	3.04	45.6	2,280,000.00
	Mendez Crossing East	-	-	-
	Mendez Crossing West	-	-	-
	Neogan	2.45	36.75	1,837,500.00
	Patutong Malaki North	.045	6.75	337,500.00
	Patutong Malaki South	0.71	10.65	532,500.00
	Sambong	0.3	4.5	225,000.00
	San Jose	1.05	15.75	630,000.00
	Silang Crossing East	0.55	8.25	412,500.00
	Silang Crossing West	0.55	8.25	412,500.00
	Sungay East	0.84	12.6	630,000.00
Sungay West	0.19	2.85	142,500.00	
Tolentino East	1.19	17.85	803,250.00	
Tolentino West	0.88	13.2	660,000.00	
Zambal	7.22	108.3	5,415,000.00	
<i>Sub-total</i>		39.645	600.75	
<i>Papaya</i>	Asisan	0.17	2.55	51,000.00
	Bagong Tubig	-	-	-
	Calabuso	0.456	6.84	136,800.00
	Dapdap East	0.16	2.4	48,000.00
	Dapdap West	0.345	5.175	103,500.00
	Francisco	0.5	7.5	150,000.00
	Guinhawa North	0.889	13.335	266,700.00
	Guinhawa South	0.598	8.97	179,400.00
	Iruhin Central	0.1	1.5	30,000.00
	Iruhin East	0.639	9.585	191,700.00
	Iruhin West	0.56	8.4	168,000.00
	Kaybagal Central	0.35	5.25	105,000.00
	Kaybagal North	0.15	2.25	45,000.00
	Kaybagal South	0.1	1.5	30,000.00
	Mag-asawang Ilat	0.18	2.7	54,000.00
	Maharlika East	-	-	-
	Maharlika West	-	-	-
	Maitim II Central	1.08	16.2	324,000.00
	Maitim II East	0.99	14.8	297,000.00
	Maitim II West	0.48	7.2	144,000.00

	Mendez Crossing East	-	-	-
	Mendez Crossing West	-	-	-
	Neogan	0.58	8.7	174,000.00
	Patutong Malaki North	0.57	8.55	171,000.00
	Patutong Malaki South	0.663	9.945	198,900.00
	Sambong	0.32	4.8	96,000.00
	San Jose	0.77	11.55	231,000.00
	Silang Crossing East	-	-	-
	Silang Crossing West	-	-	-
	Sungay East	0.47	7.05	141,000.00
	Sungay West	0.38	5.7	114,000.00
	Tolentino East	0.81	12.15	243,000.00
	Tolentino West	0.25	3.75	75,000.00
	Zambal	0.65	9.75	195,000.00
<i>Sub-Total</i>		<i>13.21</i>	<i>198.1</i>	
Upland Vegetables	Asisan	1.08	12.96	194,400.00
	Bagong Tubig	-	-	-
	Calabuso	0.116	1.392	20,800.00
	Dapdap East	0.097	1.164	17,460.00
	Dapdap West	0.144	1.728	25,920.00
	Francisco	0.21	2.52	37,800.00
	Guinhawa North	3.77	45.24	678,700.00
	Guinhawa South	5.629	67.548	1,013,220.00
	Iruhin Central	0.5	6	90,000.00
	Iruhin East	0.153	1.836	27,540.00
	Iruhin West	0.08	0.96	14,400.00
	Kaybagal Central	0.835	10.02	100,200.00
	Kaybagal North	2.67	32.04	320,400.00
	Kaybagal South	2.54	30.48	457,200.00
	Mag-asawang Ilat	0.77	9.24	138,600.00
	Maharlika East	1.093	13.1	196,500.00
	Maharlika West	1.584	19	285,120.00
	Maitim II Central	1.751	21	315,180.00
	Maitim II East	2.268	27.2	408,240.00
	Maitim II West	0.924	11.08	166,320.00
	Mendez Crossing East	0.415	4.98	74,700.00
	Mendez Crossing West	-	-	-
	Neogan	1.77	21.24	318,600.00
	Patutong Malaki North	1.501	18.012	270,180.00
	Patutong Malaki South	4.598	55.176	827,640.00
	Sambong	0.322	3.864	57,960.00
	San Jose	0.33	3.96	59,400.00
	Silang Crossing East	-	-	-
	Silang Crossing West	1.235	14.82	222,300.00
	Sungay East	0.03	0.36	5,400.00
	Sungay West	0.05	0.6	9,000.00
	Tolentino East	0.235	2.82	42,300.00
	Tolentino West	0.23	2.76	41,400.00
Zambal	6.474	77.688	1,165,320.00	
<i>Sub-total</i>		<i>43.404</i>	<i>520.788</i>	
<i>Other Vegetables</i>		<i>16.023</i>	<i>239.669</i>	<i>7,210,350.00</i>
<i>Leafy vegetables</i>		<i>4.429</i>	<i>77.7445</i>	<i>3,137,420.00</i>
<i>Guyabano</i>		<i>13.37</i>	<i>98.96</i>	<i>1,979,200.00</i>
<i>Jackfruit</i>		<i>4.45</i>	<i>66.225</i>	<i>1,324,500.00</i>

Avocado		2.81	42.15	843,000.00
Ornamental and bonsai plants		7.08		

Source: Municipal Agriculturist's Office

It is imperative to include the plans for farmers and small-scale agri-entrepreneurs. Simultaneous with the provision of programs and projects for the farmers, the City can also look into providing opportunities to informal sectors like small traders and/or small-scale businesses (e.g., those who are selling farm-produced products and ornamental plants on the roadsides).

To date, a total of 1,231 agricultural occupations/groups in Urban and rural areas are present in the city. While 136 hectares are considered CARPable lands at the same time, no agrarian related concerns were reported so far according to City Agriculture Office.

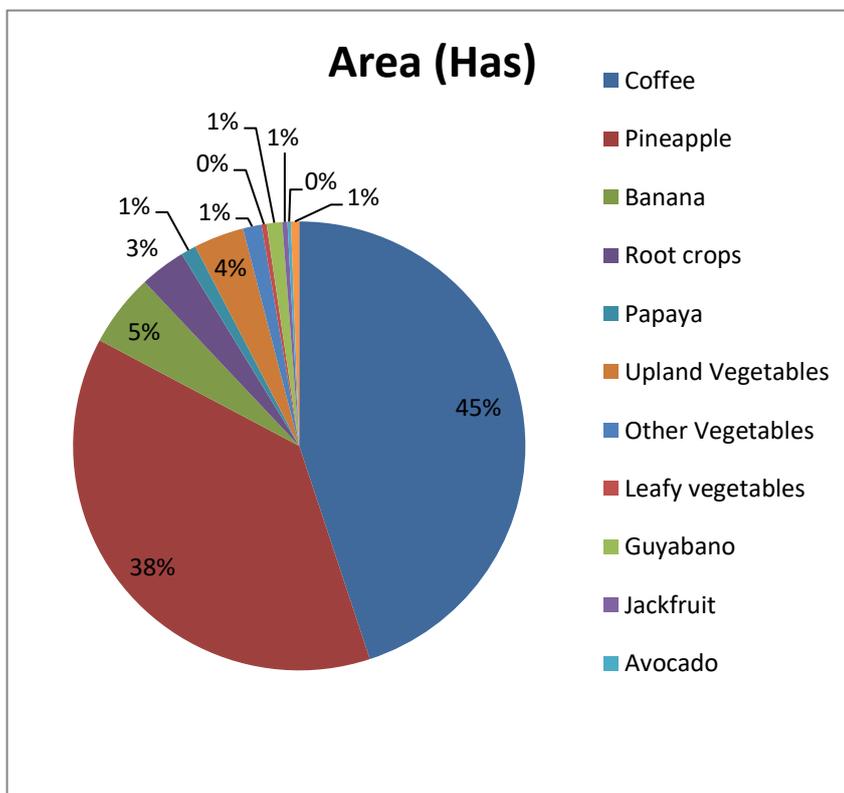
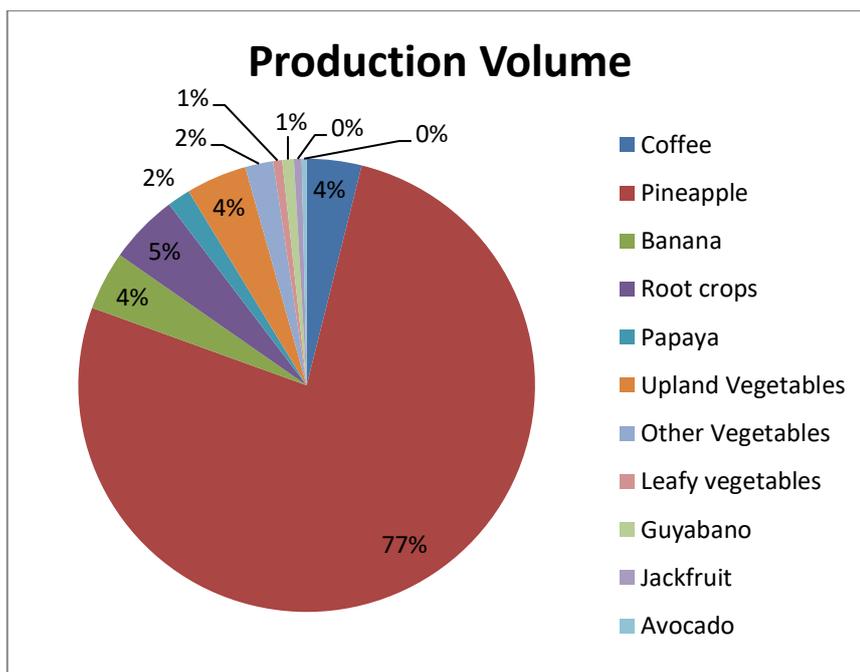


Figure 12. Areas Covered by Agricultural Crops

Figure 13. Volume of Crops Produced



4.1.1.3 CARPable Lands

All properties under the Comprehensive Agrarian Reform Program (CARP) were all settled and beneficiaries were all issued Certificate of Land Ownership Award (CLOA). These lands are located at the ridges and eastern part of the City. Barangay Iruhin East and San Jose-Silang Crossing East Cluster were two areas declared as Agrarian Reform Communities.

As per Department of Agrarian Reform (DAR), there is no objection from the DAR-Cavite upon reviewing the draft Comprehensive Agrarian Reform of the city to the implementation for the reclassification and rezoning does not have any conflict nor opposes the programs implemented by the department. It also supports the vision of Tagaytay City as a “Resort, Retirement Haven and Character city” with adequate measures in place to safeguard its pristine environment. It further acknowledges that the City’s socio-economic growth is anchored on tourism, institutions and agriculture.

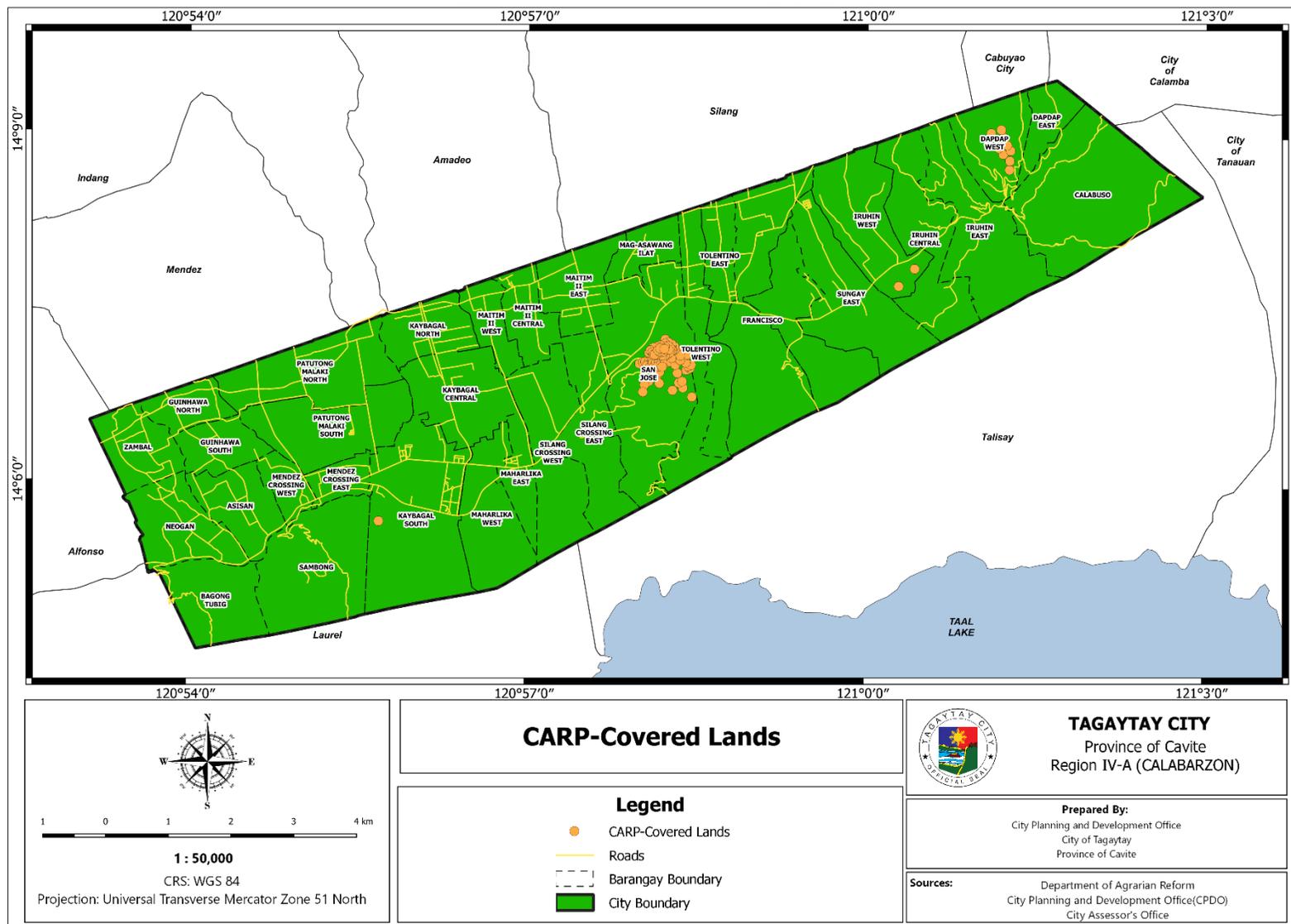
As per DAR records, to date, Tagaytay City has CARP-covered lands issued with Certificates of Landownership Award (CLOAs) in the following barangays:

Table 54. Inventory of CARP- covered Lands

Barangay	No. of CARP Lands	No. of CLOAS Issued	Area (Has.)	No. of Agrarian Reform Beneficiaries
Dapdap West	7	15	14.5159	13
Iruhin East	1	1	82.8913	70
Iruhin West	9	58	14.8311	43
Kaybagal south (Pob.)	2	14	40.2530	17
San Jose	2	93	57.3954	65
Silang Junction South	4	17	32.3754	34
TOTAL	25	198	242.2621	242

Source: DAR-Cavite

Map 23. CARP-covered Lands in Tagaytay City



Furthermore, there is an on-going onsite investigation and documentation for CARP coverage over two (2) landholdings in the following barangay which was confirmed by the City Assessor's Office. According to City Assessor's Office, most of the ARBs issued with CLOAs have not submitted their documents to the department for updates on the status of the properties.

Table 55. CARP-Coverage Alienable and Disposable (A&D) Lands over two landholdings

Barangay	Name of Land Owner	Title Number	Lot Number	Area For Acquisition (Has.)
Calabuso	J.A Development Corporation	T-26612	Lot 1993-B-12	42.0
Calabuso	J.A Development Corporation	T-26613	Lot 1993-B-13	10.9899
TOTAL				52.9899

Source: DAR-Cavite

4.1.2 Livestock and Poultry

The city's favourable climate has attracted commercial and semi-commercial livestock farms to locate in the area. Inventory of livestock and poultry registered increases in the past years. Cattle are raised principally as work animals, while other forms of livestock are raised essentially for consumption.

As per City Nutrition Office report as of January 2020, the total number of households with livestock production is 2,581.

4.1.3 Forestry

For forestry, there are no recorded production forests in the periphery of the City. Informal dwellers have already been non-existent in protective areas in seventeen (17) barangays.

The Forest Land Use Plan of Tagaytay City was drafted and prepared in CY 2019 with the technical assistance of the Department of Environment and Natural Resources – Provincial Environment and Natural Resources Province of Cavite.

4.1.4 Agricultural Support Facilities

4.1.4.1 Production Support Facilities

The city's Agricultural production support facilities include Green House for organic vegetable production at Brgy. San Jose, Nursery structure San Jose (SVD) for seedling production, Complete facilities/structure for hydroponics (nutrient fluid technique) vegetable production in Brgy. Zambal, complete facilities and housing for mushroom production located in Brgy. Zambal, and Slaughterhouse for cattle and hogs. The result from these facilities found that the greatest potential for achieving the best yields as well as resulting in safe agricultural products.

Table 56. Agriculture Analysis Matrix

Technical Finding Observation	Implications (Effect)	Policy Captions
High cost of production input (fertilizer)	Large percentage of capital required for production will go to fertilization requirement.	<ul style="list-style-type: none"> Government subsidy to inorganic/commercial fertilizer capital Use Organic Fertilizer

Technical Finding Observation	Implications (Effect)	Policy Captions
Limited land area for agricultural production.	Insufficient production Low income of farmers.	Utilize all idle lands for agricultural productivity.
Marketing manipulation of middle man.	The price of commodity was dictated by middle man, resulting to lesser income of the farmers.	Organize the farmers to form cooperative.

4.2 The Secondary Sector

4.2.1 Construction

A total of 315 constructions were registered in the city in 2021. It includes 227 Residential constructions, 81 Commercial constructions, five (5) Special constructions, and two (2) Institutional constructions.

A total of 315 constructions were registered in the city in 2021. It includes 227 Residential constructions, 81 Commercial constructions, five (5) Special constructions, and two (2) Institutional constructions.

4.2.2 Electricity, Gas and Water

4.2.2.1 Electricity

Power supply in the city is provided by Manila Electric Company (MERALCO). Currently, 98.43% of the total household have access to electricity.

4.2.2.2 Gas/LPG

The local distributors of fuel or gas re-filling stations in the city are shown in the table below:

Table 57. Inventory of Gasoline Stations

Gasoline Station	Location
R South Gasoline Station	Francisco
D-Twentyeight Trucking and Trading Company Inc. (CALTEX)	San Jose
D-Twentyeight Trucking and Trading Company Inc. (CALTEX)	Silang Crossing East
Tagaytay Motorist Service Station (SHELL)	Kaybagal South
Gasso fuel Trading, Inc.	Mahogany Ave., Kaybagal South
Green Pump elite Two, Inc. (FLEX FUEL)	Maitim II East
LM Iglesia Gasoline Station (TOTAL)	Mendez Crossing East
Cazza De Gasolina Fuel Store (PHOENIX)	Maitim II East
IKR Gasoline Service Station (PETRON)	Kaybagal South
Olivan Petro Fuel Express (FUEL SAVE)	Kaybagal Central
Phoenix Southern Petroleum Corp.	Maharlika West
R. Gon Fuel Trading (D' RISING GASOLINE STATION)	Maharlika West
Nicco Vince Gas Station (PETRON)	Maharlika East

Source: City Planning and Development Office/BPLO - Tagaytay

The city is also locally distributed with liquefied petroleum gas (LPG) like Shellane, Gasul, Argas, Shine Gaz, Petronas, Solane and Caltex.

4.2.3 Water

Tagaytay City Water District

The Tagaytay City Water District (TCWD) was established on May 21, 1975 through a resolution passed by the Sangguniang Panlungsod. With its creation, the TCWD took over the ownership and management of the waterworks system from the City Government in pursuance to PD 198 of the Provincial Water Utilities Act of 1973.

The TCWD derives its water supply from the city's three major springs. In each of these springs, it has set up waterworks facilities which include a spring intake structure, pump station, transmission line, distribution reservoir, distribution lines and appurtenances.

TCWD's twenty-nine (29) pumping facilities consisting of seventeen (17) production wells extracting water supply from groundwater and twelve (12) booster or transfer stations are located at the following areas: one (1) at Barangay Asisan; three at Barangay Francisco; one (1) at Barangay Guinhawa South; one (1) at Barangay Iruhin West; one (1) at Barangay Kaybagal Central; two (2) at Barangay Kaybagal North; one (1) at Barangay Kaybagal South; one (1) at Barangay Mag-asawang Ilat; one (1) at Barangay Maharlika West; two (2) at Barangay Maitim II Central; one (1) at barangay Maitim II East; one (1) at Barangay Mendez Crossing East; one (1) at Barangay Neogan; two (2) at Barangay Patutong Malaki North; two (2) at Barangay Sambong; two (2) at Barangay Silang Crossing West; three (3) at Barangay Sungay West; one (1) at barangay Tolentino East; and one (1) at Barangay Zambal.

A Public-Private Partnership or a joint venture scheme for efficient operation/management of TCWD was made between TCWD and Prime Water Infrastructure to speed up the delivery of service to the people. As stipulated in the Terms of Reference between TCWD and Prime Water Infrastructure Incorporation, the contractual venture will be effective for a period of twenty-five (25) years. Under the agreement, TCWD will be in charge in the over-all operation while Prime water will infuse capitalization/financial requirement in the development/ improvement/ expansion/ rehabilitation/ maintenance of the existing infrastructure/ facilities including septage management system for sanitary dislodging and treatment services. All assets will still be owned by the former after the contract expires.

The scheme aims to provide a better customer service through a guaranteed 24/7 water availability in every household in the entire city.

As of 2021, Prime Water-TCWD serves 15,561 HH at 6 persons per household as estimated. Water consumption per person is 185 liters or 0.185 cu. meter per day.

4.3 Tertiary Sector

Tagaytay is a prime tourist destination and plays a significant role in promoting tourism industry in the CALABARZON Region, in particular, and in the entire country in general.

The City of Tagaytay has no defined Central Business District. However, commercial activities tend to concentrate in five different areas of the city, namely: Barangays Mendez Crossing East

and West, Barangay San Jose, Barangay Silang Crossing East, Public Market at Barangay Tolentino East and Mahogany Beef Market at Barangay Kaybagal South.

Table 58. Inventory of Commercial Establishments by Economic Activities, 2019-2022

Economic Activities	2019			2020			2021		
	No. of Establishments	No. of Employees		No. of Establishments	No. of Employees		No. of Establishments	No. of Employees	
		M	F		M	F		M	F
1. Wholesale and retail trade	1390	795	2068	1644	943	2296	1546	845	2193
2. Hotels & restaurants, transport and storage	311	410	958	274	432	1008	258	392	912
3. Communications	1	10	30	1	30	10	1	30	10
4. Financial Intermediation	60	75	172	58	75	74	58	66	152
5. Real estate renting and business	408	231	346	430	256	384	461	278	417
6. Public administration and defense	0	0	0	0	0	0	0	0	0
7. Construction (Hardware supply, etc.)	55	323	139	55	339	146	55	336	144
8. Gas Supply (Gasoline Stations, LPG Refilling, etc)	23	112	48	22	112	48	28	118	51
9. Water Supply (Refilling Stations, etc)	58	116	50	64	132	57	67	128	49
10. Education	27	73	169	26	74	170	24	67	155
11. Health and social work	29	73	108	34	152	226	22	139	207
12. Other community, social and personal services	112	138	205	106	138	207	87	99	148
13. Private household with employed persons	NDA								
14. Extra territorial organizations and bodies	0	0	0	0	0	0	0	0	0
TOTAL	2474	2356	4293	2714	2683	4626	2607	2498	4438

4.3.1 Financial Institutions

Based on the report of Business Permits and Licensing Office of 2021, there are thirty (30) banks, twenty (20) pawnshops/money shops, eleven (11) cooperatives and eight (8) lending investors in the city.

4.3.2 Wholesale and Retail Trade

There are five (5) supermarkets, fifty-seven (57) General Merchandise, fifteen (15) lumber and hardware, one hundred eight (108) Sari-Sari Stores, sixteen (16) Pharmacies/Drugstores, twenty-three (23) Water Refilling Stations, one hundred eleven (111) Souvenir Shops and forty-six (46) Pasalubong Shops.

Table 59. Inventory of Commercial Establishments with Business Permits, 2020

Line of Business	Number of Establishments
Restaurants	167
Carinderia/Canteen	64
Refreshments Parlor	84
Hotel/Motel	63
Commercial Bldgs	70
Space for Rent	119
Rooms for Rent	76
Banks	27
Pawnshops/Money Shops	20
Lending Investors	8
Supermarkets	5
Sari-Sari Store	108
General Merchandise	57
Computer Shop	15
Pharmacies/Drug Stores	16
Medical	21
Dental Clinic	18
Cooperatives	11
Lumber/Hardware	15
Gas Stations	10
Private Schools	13
Water Refilling	23
Rehab	2
Spa/Massage	28
Souvenir Shops	111
Pasalubong Shops	46
In-Land Resorts	6
Photoshops	9
Laundry/Dry Cleaning	19

Beauty Parlor/Barber Shop	26
Dress/Tailoring Shops	6
Other Services	1426
TOTAL	2,689

Source: BPLO 2020

Slaughterhouse

The existing slaughterhouse is located at Barangay Kaybagal South across the Mahogany Public Market. In 2018, the average number of cattle and swine butchered per month is totalled to 2,096 and 2,206 respectively.

Public Market

Tagaytay has two public markets, namely, the Tagaytay City and Mahogany Markets. Tagaytay City Market was established in the early 50s. It is located at Barangay Tolentino East, Tagaytay City within a 2.5 hectare property donated by the city's political icon - Tolentino-Oñate clan. It started with only makeshift structure like "talipapa" and then Marcos Type Building was constructed in the late 60s. It is known in the upper-Cavite Province as the main source of fresh fruits particularly sweet pineapple, banana, and papaya.

A new building was completed in 2005 to accommodate the wet, grocery, dry sections. To meet the increasing volume of business in the area, another three-storey building was constructed in 2008. Regular market day is every Wednesdays and Saturdays. Nevertheless, several stalls in the dry and wet sections are open daily to serve the public.

Mahogany Market was established in 1994. It is known as the main source of quality beef not only within the province but also in the adjoining provinces including Metro Manila. Its construction and renovation of the new Mahogany Market building has recently completed and open to public.

4.3.3 Transportation and Communications

4.3.3.1 Transportation

Traffic composition at Aguinaldo Highway shows typical mixing of different transport mode in the road network. Combined number of buses, Jeepneys, motorbikes, and tricycles are more than half of the total traffic considering tourism is the city's top industry.

At the Sta. Rosa – Tagaytay Road, share of trucks is significant and this is because of the presence of manufacturing companies in the areas of Province of Batangas, Silang and Sta. Rosa, Laguna.

Presently plying Aguinaldo Highway and Sta. Rosa-Tagaytay Road are experiencing congestion during peak periods and weekends. These routes provide linkage between Metro Manila, Cavite and Batangas. Moderate to heavy traffic can be expected during weekends and holiday seasons making travel to the city somehow challenging to tourists.

A study was conducted by the National Economic and Development Authority (NEDA) Region IV-A stated that Tagaytay City had reached critical levels on road capacity since major roads leading to the city already have moderate to heavy traffic. However, different management schemes were so far being implemented by the city government to provide solutions in improving overall traffic safety and efficiency especially in the central business. More bypass roads were also considered to provide an alternative route to ease the congestion of vehicles passing along Tagaytay. Commercial establishments were also required to provide parking spaces in order to discourage roadside parking.

As in other towns and cities, the major modes of transport in Tagaytay are buses, jeeps, tricycle and cars. These transit types provide mobility services within the city.

Running almost perpendicular to the arterial roads are eight other arterial roads, seven of which are maintained by the national government. At present, all of these are vital road linkages in as much as they provide access to the towns and cities of the four regions/provinces, namely: Metro Manila, Laguna, Batangas and Cavite. These arterial roads are enumerated as follows:

- Tagaytay – Manila via Silang Road (National Road)
- Tagaytay – Ulat Sto. Domingo – Sta. Rosa Road (National Road)
- Tagaytay – Cavite vi Mendez Road (National Road)
- Tagaytay – General Trias via Amadeo Road (City Road)
- Tagaytay – Talisay Road (2) (National Road)
- Tagaytay – Laguna via Calamba Road (National Road)
- Tagaytay – Taal Lake Road (National Road)
- Tagaytay – Batangas via Tuy Road (National Road)

Meanwhile, collector and service roads are those which branch out from these arterial roads. These include all the city and Barangay roads in the area. Aside from serving as the main access of the population in the inner portion of Tagaytay, these roads particularly, the service roads are also used as farm-to-market roads by the farmers of the city.

As of year 2021, Tagaytay City has a total length of 336.684 kilometers. Out of this total road length, about 47.47 kms are classified as National Roads, 30.943 kms are City Roads and 79.146 kms are Barangay Roads.

Mode of Transit

As in other towns and cities, the major modes of transport in Tagaytay are buses, jeeps, tricycle and cars. These transit types provide mobility services within the city.

Aside from these major modes of transit are several buses which ply through the City and which likewise provide transportation services to Tagaytay residents.

Tagaytay Central Terminal located in Barangay Maitim II East, serves as the hub for transport services for jeepneys and vans that ply the routes from the city proper to the People's Park and the Tagaytay Highlands shuttles; Calamba City, Laguna; Alabang, Muntinlupa City; Alfonso and Indang, Cavite and Nasugbu, Batangas. It eases traffic congestion in the city and provides

convenience for both the transport sector and passengers. Vans also provide public transport services going to Laguna and Metro Manila.

The bus liners that provide transport services to commuters in Tagaytay are the Saulog Transit, Celyrosa Express, Alfonso Transit, San Agustin Liner, Kirby Liner, Erjohn & Almark Transit, Kersteen, DLTB Co., Cavite-Batangas Transport Coop and BSC Transit.

Public-utility-jeepneys (PUJ's) are made accessible at strategic places where people usually unload. They are situated in the following locations:

- Central Terminal (Barangay Maitim II East) – jeepney route is towards Silang to Barangay Dapdap East and vice versa
- City Market – jeepney route taken is from the City Market to Balibago, Sta. Rosa, Laguna and vice versa
- Barangay Kaybagal – jeepney route is towards Amadeo and vice versa
- Barangay Mendez Crossing – jeepney route is towards Indang; Anuling, Mendez; Silang, Cavite; Nasugbu and vice versa.
- Public-utility-jeepneys (PUJ's) are made accessible at strategic places where people usually unload. They are situated in the following locations:
- Barangay Silang Crossing – jeepney route is towards Silang to Barangay Dapdap East and vice versa
- City Market – jeepney route taken is from the City Market to Balibago, Sta. Rosa, Laguna and vice versa
- Barangay Kaybagal – jeepney route is towards Amadeo and vice versa
- Barangay Mendez Crossing – jeepney route is towards Indang; Anuling, Mendez; Silang, Cavite; Nasugbu and vice versa.

4.3.3.2 Communications

Postal Services

The city has only one Post Office managed by the Bureau of Post, which is located at the City Hall Complex. Delivery of mails in areas beyond the 5-kilometer radius is done twice a week.

Incoming mails throughout the year totalled up to 486,808. Delivered mails went up to 478,109 this year while undelivered mails totalled up to 8,699. Influx of mail is observed during the months of November and December.

The post office takes charge of the following: (1) Priority Mails; (2) Domestic Air Mail Service or DEMS; (3) Registered Mails; (4) Ordinary Mails; (5) Parcel and Printed Matters; (6) Postal Money Orders; (7) Packaging Services; (8) Issuance of Postal IDs; (9) Operation of Mailing Centers; (10) Air Mail Letters; and (11) Special Delivery of Foreign Mails.

Telephone and Internet Service Providers

Telephone Services within the city is mainly being serviced by the Philippine Long-Distance Telephone Company (PLDT). Its main office is located at the Centrum along Tagaytay-Nasugbu Road, and adjacent to the Tagaytay City International Convention Center. The rest is being provided by wireless telecoms.

Mobile Phone Services (including Cell sites and their location)

Several relay stations for cellular phones (Smart, Globe and Dito Cellular Telecommunications) are also found within the city.

Table 60. Cellular Sites in the City

Owner	Location
Globe Telecommunication Inc.	<ul style="list-style-type: none"> • Barangay Dapdap East • Barangay Francisco • Barangay Kaybagal South • Barangay Silang Crossing West • Barangay Maitim II East • Barangay Calabuso • Barangay Mendez Crossing East • Barangay Maitim II Central • Barangay Patutong Malaki North
DITO Cellular Telecommunication	<ul style="list-style-type: none"> • Barangay Asisan • Barangay Kaybagal Central • Barangay Mendez Crossing East • Barangay Maharlika East • Barangay Silang Crossing West • Barangay Patutong Malaki South • Barangay Maitim II East • Barangay Tolentino East • Barangay Iruhin East • Barangay Silang Crossing East • Barangay Sungay East • Barangay Kaybagal South
SMART Telecommunication	<ul style="list-style-type: none"> • Barangay Sungay West • Barangay San Jose • Barangay Maharlika West • Barangay Neogan • Barangay Maitim II East • Barangay Calabus0 • Barangay Kaybagal South • Barangay Mendez Crossing East • Barangay Silang Crossing East • Barangay Mendez Crossing East • Barangay Maitim II West
ISOC Asia Telecom Towers Inc.	<ul style="list-style-type: none"> • Barangay Francisco • Barangay Kaybagal Central • Barangay Asisan • Barangay Neogan • Barangay Maitim II West • Barangay Mendez Crossing West • Barangay Kaybagal South • Barangay Patutong Malaki South
Digitel Mobile Phil. Inc.	Barangay Mendez Crossing West

Source: Municipal Planning and Development Office

Cable TV Services

There are three (3) Cable TV Service Providers within the city, the Amadeo-Tagaytay Cable TV, Cignal TV- Tagaytay and Mountain Top Cable TV.

4.3.4 Personal Services

These include twenty-six (26) Beauty Parlors and Barber Shops, six (6) Dress and Tailoring Shops, fifteen (15) Computer Shop nine (9) Photographic Studios, nineteen (19) laundry and dry cleaning, and twenty-eight (28) Spa/Massage Clinics.

4.3.5 Community Services

There are two (2) janitorial services, five (5) security services and nine (9) courier services to serve the community.

4.4. Tourism Sector

The City of Tagaytay is blessed with natural beauty and a very good climate. In fact, the city is considered as one of the major tourist destinations in the CALABARZON area today. It has an excellent vantage point of Taal Lake and Taal Volcano ; very accessible and near metro manila - which is the main entry and exit point going to provinces of Batangas and Laguna. It has also been a favorite destination both for local and international tourists.

Tagaytay also offers a number of recreational and business facilities. These include an exclusive golf course, sports facilities, view decks overlooking Taal Lake and Volcano, picnic grounds, grass land for horseback riding, a mini-zoo, a casino and the new leisure park that is envisioned to be one of the definitive Tagaytay experiences for local and foreign tourists alike. It also showcases plenty of restaurants, some of which are located at the ridge area where tourists can enjoy their meals while viewing the world's smallest volcano - the Taal Volcano. World-class accommodation facilities are also available at the city. The Development Academy of the Philippines and Picnic Grove offer a number of double rooms and suites, family rooms and cottages with a minimum accommodation capacity of 650 persons. Other facilities include conference rooms with a total capacity of 1,012 people and dining rooms and restaurants, which can cater 1,960 persons. Other establishments also offer good accommodations such as Anya Resort, Escala, The Lake Hotel, Days Hotel, Taal Vista Hotel, Discovery Suites, Hotel Dominique, Exclusive Estancia Resort Hotel, Residence Inn, The Boutique, The Windy Ridge Hotel, New Orleans Hotel and Tagaytay Haven Hotel among other. Aside from the hotels and rooms for rent, a small lodging establishment called Bed and Breakfast is also available and sought-after. It offers overnight accommodation and breakfast, but usually does not offer other meals.

The Tagaytay International Conventional Center (TICC) showcases eight (8) conference rooms, where conventions, meetings and other related functions are held. The Tagaytay Character Convention Hotel and the Sun Flower Hostel can accommodate at least 200 and 400 guests respectively.

Skyranch, a leisure park is the newest tourists' destination in the city and where the Sky Eye, one of the biggest and known as the tallest Ferris wheel in the country can be found is a complete day destination for families and groups of friends. The park offers selected amusement park rides and activities.

The main tourist attraction of Tagaytay is the captivating panoramic view of the natural beauty of the Taal Volcano, which is the smallest volcano in the world and where two delectable rare species of fish, the “maliputo” and “tawilis” are found. In spite of its nearness to Metro Manila, Tagaytay has a unique rustic atmosphere and invigorating cool climate. This is the reason why people do not only want to visit the place but prefer to hold seminars / conferences the city. Complementing the natural endowment are several tourist establishments, which are attractions themselves.

There are one hundred eighty-two (182) Restaurants/ Food Chains, sixty-four (64) Carinderia/Canteens, seventy (70) commercial buildings, one hundred nineteen space for rent, eighty-four (84) Refreshment Parlors, seventy-five (75) Hotels/Motels, seventy-six (76) Rooms for Rent, and six (6) In-land Resorts to cater the needs of the tourists.

The City is also covered by Proclamation No. 740 dated Feb. 16, 1996 wherein all areas within a one (1) kilometer radius from the People's Park shall be developed as another PUD and all uses shall be in consonance to the Proclamation's stipulations : recreational, scientific, planned area for new development and other similar purposes.

4.4.1 Accessibility of Existing Tourist Attraction

Table 61. Accessibility of Existing Tourist Attraction

TAGAYTAY CITY TOURIST SPOTS	BRIEF DESCRIPTION	HOW TO GET THERE
PEOPLE'S PARK IN THE SKY	located in the summit of Mt. Gozales in Tagaytay City, Cavite. The park was originally an unfinished mansion known as the <i>Palace In the Sky</i> which was built during the Marcos era.	<i>commute:</i> From Tagaytay City Market, take jeepneys bound to the park. <i>by car:</i> From Tagaytay circle, head to northeast of Tagaytay via Tagaytay-Calamba road.
TAGAYTAY PICNIC GROVE	Enjoying the cold weather and viewing the splendid, panoramic view of Taal Volcano and Lake are better done at the Picnic Grove, one of the popular tourist destinations in Tagaytay City. With its built-in cottages and greenish, hilly surroundings, this recreational area is just perfect for picnic lovers as well as family gatherings and bonding of friends.	<i>commute:</i> From Tagaytay City Market, take jeepneys bound to the park. <i>by car:</i> From Tagaytay circle, head to northeast of Tagaytay via Tagaytay-Calamba road.
SKYRANCH TAGAYTAY	A leisure park in the renowned leisure city of Tagaytay, south of Metro Manila, is a 5-hectare project of SM Prime Holdings, Inc., SM Group's consolidated subsidiaries and real estate assets. Neatly settled beside the famed Taal Vista Hotel, Sky Ranch is set to be one of the definitive Tagaytay experiences for families and groups of friends.	Option 1: From Coastal Mall, ride a bus to Tagaytay-Mendez or Nasugbu route. Alight at Olivarez Tagaytay. Ride a jeepney to Casino or Crossing Mendez and alight at SkyRanch Tagaytay. Option 2: From SM Calamba, ride a van going to Olivarez Tagaytay. Ride a jeepney to Casino or Crossing Mendez and alight at SkyRanch Tagaytay. Option 3: From Bauan Batangas, ride a van going to Dasmariñas at the Terminal beside Petron and across Jollibee. Alight at SkyRanch Tagaytay
MUSEO ORLINA	Showcase of the artistry of internationally acclaimed Ramon Orlina, pioneer and foremost practitioner of glass sculpture in the country. Before Orlina, glass was largely appreciated only for its utilitarian function: as drinking vessels, window glass panes or automotive windshields. A visionary, Orlina saw beyond the humble origin of this industrial glass residue. The result is an exultant body of works that, through the decades, have dazzled the art scene and prized by numerous collectors. Triumphantly, Orlina has transformed the medium by elevating it to the dignity and respectability of art.	<i>commute:</i> From Tagaytay City Terminal, take jeepneys bound to the museum. <i>by car:</i> From Tagaytay circle, head to northeast of Tagaytay via Tagaytay-Calamba road.

TAGAYTAY CITY TOURIST SPOTS	BRIEF DESCRIPTION	HOW TO GET THERE
PUZZLE MANSION	Whoever said rest cannot be combined with play simply hasn't visited the Puzzle Mansion. Tagaytay City prides itself to be the home of the record-breaking Puzzle Mansion, where guests can visit an inn that holds the Guinness Book of World Record for the most number of jigsaw puzzles in the world. The 1,028-piece collection features an interesting array of puzzles – from Disney to religious themes. Let your creativity and mental agility take flight by having a go with some of the puzzles, while enjoying the gastronomic delights at the inn's restaurant. Puzzles are also for sale for hobbyists.	<i>commute:</i> From Tagaytay City Terminal, ride a bus or jeepney to Alfonso or Nasugbu route. Alight to Barangay Neogan and ride a tricycle going to the Museum. <i>by car:</i> From Tagaytay circle, head to Brgy. Neogan along Tagaytay-Nasugbu Highway
RESIDENCE INN	ZOORI (Zoo at Residence Inn) is located in Tagaytay City where guest can enjoy a full scenic view of Taal Volcano while having fun with the animals. Aside from Mini Zoo it has a Zip Line that will surely add a benchmark in providing an exciting plus comfortable and relaxing stay at Zoori. This theme park also showcase amazing fairytale like shows that surely everyone must watch.	<i>commute:</i> From Tagaytay City Terminal, ride a bus or jeepney to Alfonso or Nasugbu route. Alight to Barangay Neogan. <i>by car:</i> From Tagaytay circle, head to Brgy. Neogan along Tagaytay-Nasugbu Highway.

Source: Tagaytay Tourism Office - 2021

Table 62. Inventory of Tourist Attractions / Cultural Property, 2021

Name of Attraction	Type	Category	CODE	Description	Significance/Ownership
PEOPLE'S PARK IN THE SKY	History and Culture	PARK	206	The People's Park in the Sky, often simply called People's Park and originally named Palace in the Sky, is a historical urban park in Tagaytay. The park was converted from an incomplete mansion, known as the palace in the sky. The park sits atop Mount Sungay, aka Mount Gonzales, which at the height of 709 meters (2,326 ft) above sea level and the highest point in Cavite.	Historical Significance: Construction of the mansion was hastened when US President Ronald Reagan announced his intention to visit the Philippines in November 1983. Work stopped when Reagan cancelled his visit." People's Park in the Sky was built during the Marcos era to host the visit of US President Ronald Reagan. Marcos was "a hero on a bubble-gum card he had collected as a kid." American officials supported Marcos - until Aug. 21, 1983. Ownership: Maintained and

Name of Attraction	Type	Category	CODE	Description	Significance/Ownership
					operated by City Government of Tagaytay
PUZZLE MANSION	History and Culture	MUSEUM	205	The Puzzle Mansion is a museum in Tagaytay, Cavite, Philippines which hosts a collection of jigsaw puzzle which from 2012 to 2017 was recognized to be the biggest in the world according to Guinness.	Ownership - Privately Owned Tourist Attraction
SKYRANCH TAGAYTAY	Sports and Recreational activities	AMUSEMENT PARK	411	Amusement park with many traditional rides for kids & adults, multiple restaurants & a gift shop.	Ownership - SM Investments Corporation's subsidiary SM Land commercial property division (later merged with SM Prime Holdings, Inc.
RESIDENCE INN	Sports and Recreational activities	ZOO	404	ZOORI (Zoo at Residence Inn) is located in Tagaytay City where guests can enjoy a full scenic view of Taal Volcano while having fun with the animals. Aside from Mini zoo it has a Zip Line that will surely add a benchmark in providing an exciting plus comfortable and relaxing stay at Zoori. This theme park also showcases amazing fairytale like shows that surely everyone must watch.	Ownership: Yupangco Group of Companies
MUSEO ORLINA	History and Culture	MUSEUM	205	Museo Orlina is a veritable treasure trove of contemporary art of the internationally-acclaimed, pioneer, and foremost practitioner of glass sculpture in the Philippines, Ramon Orlina. The museum has four levels of exhibit area, a sculpture garden and amphitheater, and a roof deck to enjoy the spectacular view of Taal Lake.	Ownership: Mr. Ramon Orlina
CITY GOVERNMENT OF TAGAYTAY (LAKBAY ARAL)	Special Event	BENCHMARKING	799	Benchmarking activity of other Local Government Unit	Lakbay Aral / Benchmarking of other Cities/Municipalities aims to share and rediscover best practices of each

Name of Attraction	Type	Category	CODE	Description	Significance/Ownership
					locality which would result to better governance.
TIERRA DE MARIA	History and Culture	CHURCH	202	Intimate Catholic chapel & shrine featuring a colossal statue of the Virgin Mary & a panoramic deck.	Ownership: Tierra De Maria is a project of Mama Mary's Movement Foundation Inc and was established on January 1, 2000
41ST DIVISION USAFFE SHRINE	History and Culture	SHRINE	299	Within the shrine are marble walls etched with the names of all 6,000 servicemen of the 41st Division, Philippine Army, under the command of Brig.-Gen. Vicente P. Lim. Coming from Cavite, Batangas, Laguna, Tayabas (now Quezon) and Palawan, these men mobilized on Tagaytay Ridge on August 1941. Here, they set up camp and trained for war, prior to joining the ensuing Battle of Bataan. A bas-relief sculpture also helps tell the heroic story of the defenders of Bataan and Corregidor.	Historical Significance: It was active from August 28, 1941 to April 9, 1942, whereupon it surrendered when Bataan fell. Previously it was active in the City of Manila, Southern Luzon. BGen. Vicente P. Lim (PA) (USMA, 1914) was the division's commander, and Col. Malcolm V. Fortier was the division's Senior Instructor, desperately trying to get the new recruits of the division (nearly the entire cadre) up to par in a record amount of time.
TAGAYTAY RIDGE LANDING SITE	History and Culture	HISTORIC SITES	208	'The Allied Forces executed the Philippines' first parachute landing on February 3, 1945 on Tagaytay Ridge. Despite heavy artillery fired by the enemy troops, the 511th Parachute Infantry Regiment, 11th Airborne Division, 8th Army of the US Armed Forces succeeded in airdropping vital military supplies and personnel in the area, which led to the liberation of Tagaytay. The liberation of Tagaytay played a critical role in the Liberation of Manila and other fronts of the Battle of Luzon.'	Historical Significance: NHCP historical marker for the parachute landing of the American forces at Tagaytay during World War II

Source: Tagaytay Tourism Office - 2021

Map 24. Location Map of Proclamation No. 740, s. 1996 in Tagaytay City

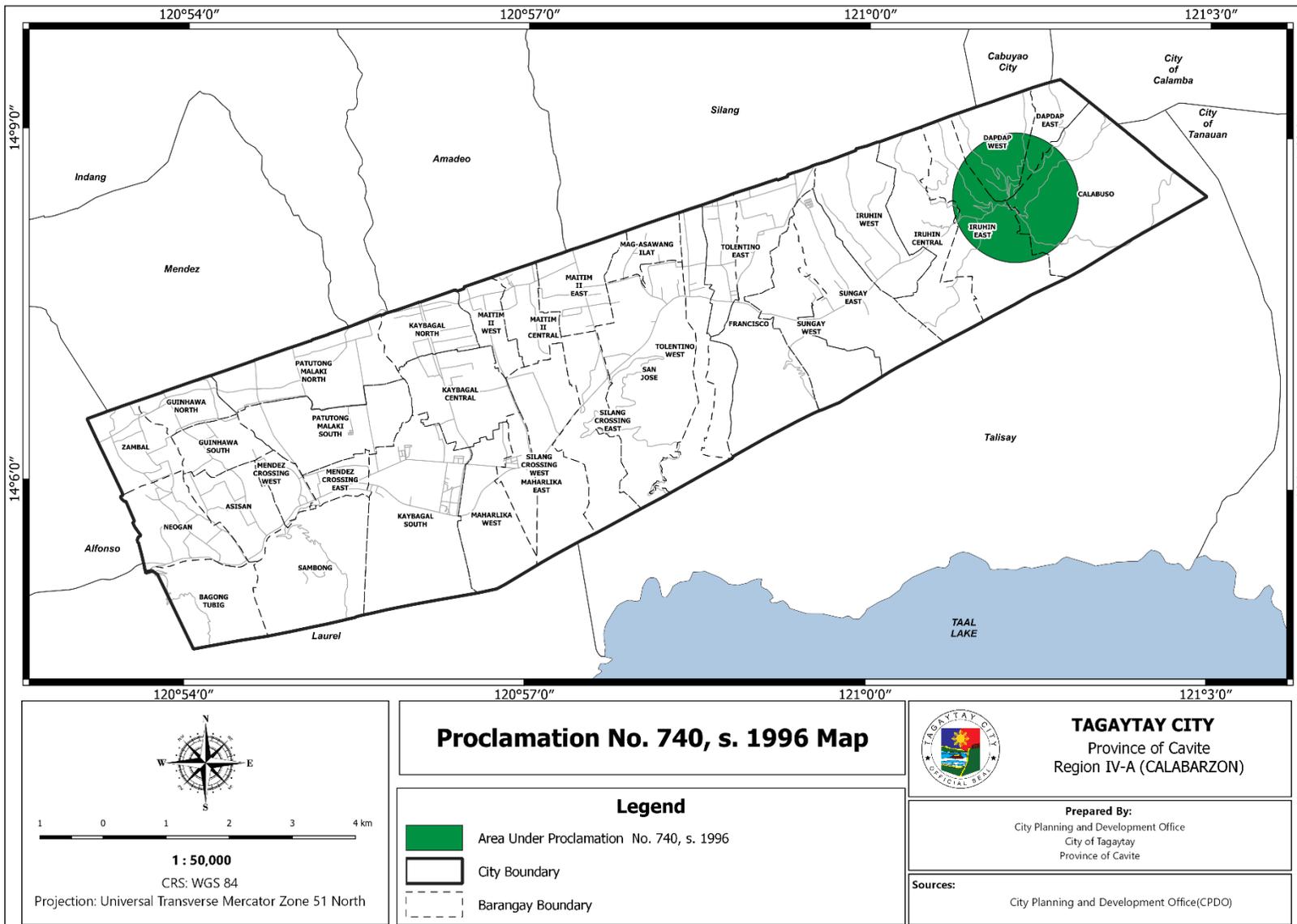


Table 63. Inventory of Tourism Establishments and support Facilities, 2021

CATEGORY	RENEWAL	NEW	TOTAL
Amusement	4	-	4
Events Place	14	1	15
Hotel	33	-	33
Mabuhay Accommodation	45	-	45
Restaurant	156	10	166
Spa	9	-	9
Others	1	1	2
TOTAL	262	13	275

Source: Tagaytay Tourism Office

Table 64. Inventory of Tourist Arrivals

SAME DAY TOURIST ARRIVAL 2021	
MONTH	ARRIVAL
January	240,879
February	176,013
March	64,276
April	Closed
May	44,560
June	88,705
July	47,635
August	3,343
September	Closed
October	44,455
November	282,083
December	534,777
Total	1,526,726

Data Source: Tagaytay Tourism Office

Cultural Heritage and Historical Landmarks

Pursuant to pertinent provisions of Republic Act No. 10066 known as the “National Cultural Heritage Act of 2009”, particularly Section 13 (c) (Maintenance of Heritage Zones) which states that: “A heritage zones shall be maintained by LGU concerned and the same shall be integrated in the preparation and implementation of Comprehensive Land Use Plan (CLUP).

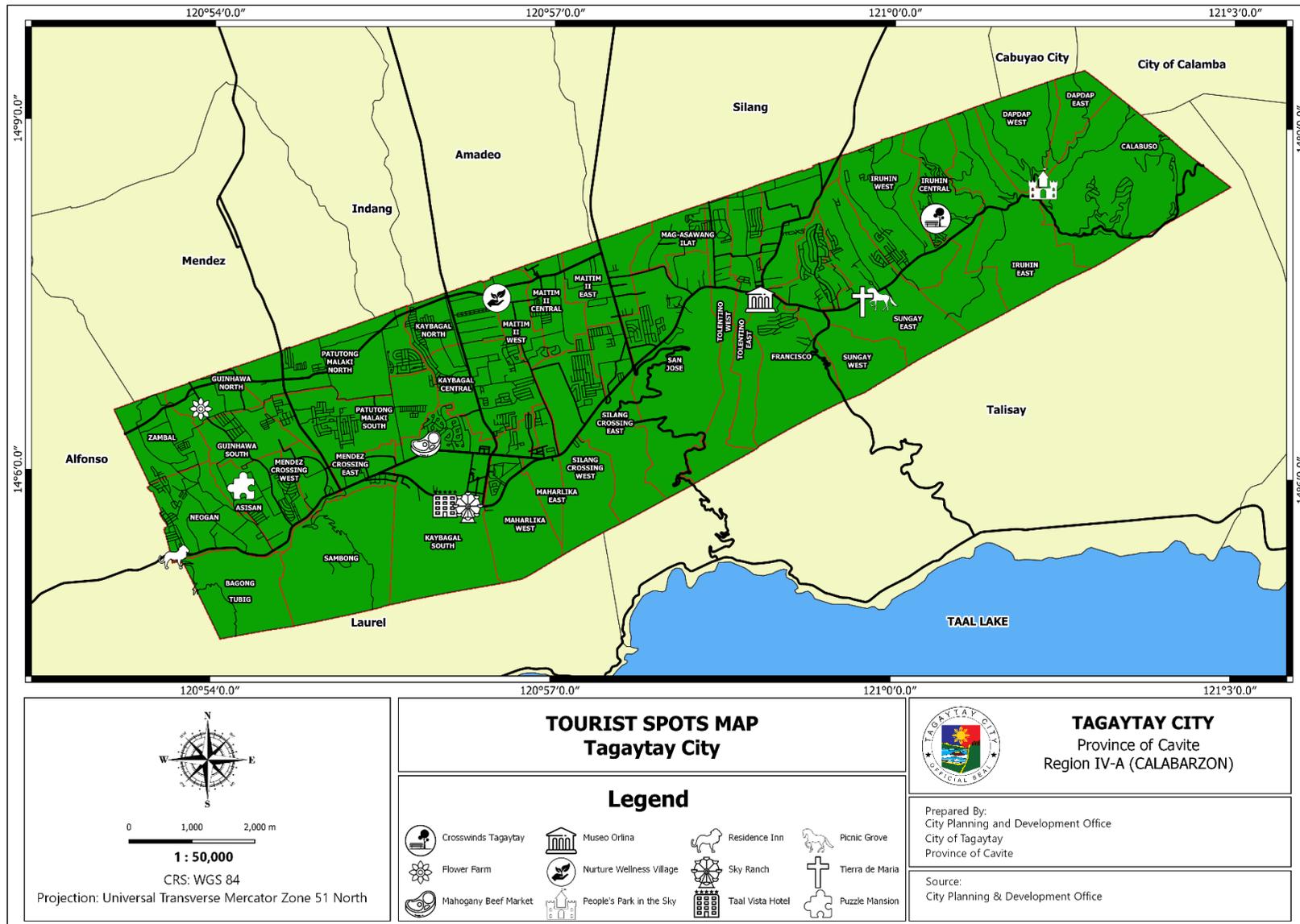
As declared by the National Historical Institute (NHI), the Local Government of Tagaytay City has been maintaining and protecting at least two (2) historical sites/landmarks, namely: 1) Tagaytay Ridge Landing –Site of the 1st Parachute landing in the Philippines executed by the 511th Parachute Infantry Regiment, 11th Airborne Division, 8th Army, U.S.A., under Lt.Gen. Robert Eichelberger (3 Feb. 1945) located at Tagaytay-Silang Junction/ Rotunda, Barangay Silang Crossing East, this city, and 2) 41st Division, PA, USAFFE. Within the shrine are marble walls etched with the names of all 6,000 servicemen of the 41st Division, Philippine Army, under the command of Brig.Gen. Vicente P. Lim. Coming from Cavite, Batangas, Laguna, Tayabas (now Quezon) and Palawan, these men mobilized on Tagaytay Ridge on August 1941. Here they set up

camp and trained for war, prior to joining the ensuing Battle of Bataan. A bas-relief sculpture also helps tell the heroic story of the defenders of Bataan and Corregidor.

Other oldest historical landmarks can found in the city include: 1) Taal Vista Hotel (formerly known as Taal Vista Lodge)- the very first hotel established in 1938 by Manila Hotel. It later on became Taal Vista Hotel runs by SM Development Corporation. 2) Picnic Grove – since 1980, it has been under the direct management/supervision of Strategic Investment Development Corporation (SIDCOR). And in 1989, with the consent of the City Government of Tagaytay, assigned its rights and interest to the Philippine Tourism Authority (PTA). Consequently, it was turned over to the City Government after 25 years in 2005. Since then the facility has been under the management of the City Government of Tagaytay. 3) People’s Park also known as Palace in the Sky. The park was converted from an incomplete mansion built during the Marcos era to host the visit of U.S. President Ronald Reagan. Work stopped when Reagan canceled his visit due to EDSA PEOPLE’S POWER REVOLUTION in 1986. It was converted into People’ Park during the administration of President Fidel V. Ramos in 1995. The City Government of Tagaytay maintains the park’s operation since then. The Shrine of Our Lady, Mother of Fair Love and a Doppler Weather Radar Station maintained by PAGASA are also within the park. 4) Development Academy of the Philippines (DAP) – a government-owned and controlled corporation established in 1973 with the original charter created by P.D. No. 205, amended by P.D. 1061, and further amended by E.O. No. 288.

Aside from those tangible cultural assets, the city also observes some festivities, such as barrio fiestas in various barangays honoring their respective Patron Saints. The celebration is highlighted by the procession, karakol and a Eucharistic Celebration or the Holy Mass as the culminating activity. It also became a traditional activity of the city during the “Araw ng Tagaytay” (City’s Founding Anniversary) to hold “Tagaytay Festivals”. The celebration features prominent foold delicacies and major agricultural products of the city. The 34 barangays are clustered into four and assigned the name of festival they will depict, such as: 1) Bulalo Festival, 2) Flower Festival, 3) Barbecue Festival and, 4)Piña Festival. The groups compete each other through street dancing. The winner then is declared the over-all champion and would defend the title in the succeeding festival.

Map 25. Tourist Spots Map of Tagaytay City



Map 26. Cultural Heritage Map of Tagaytay City

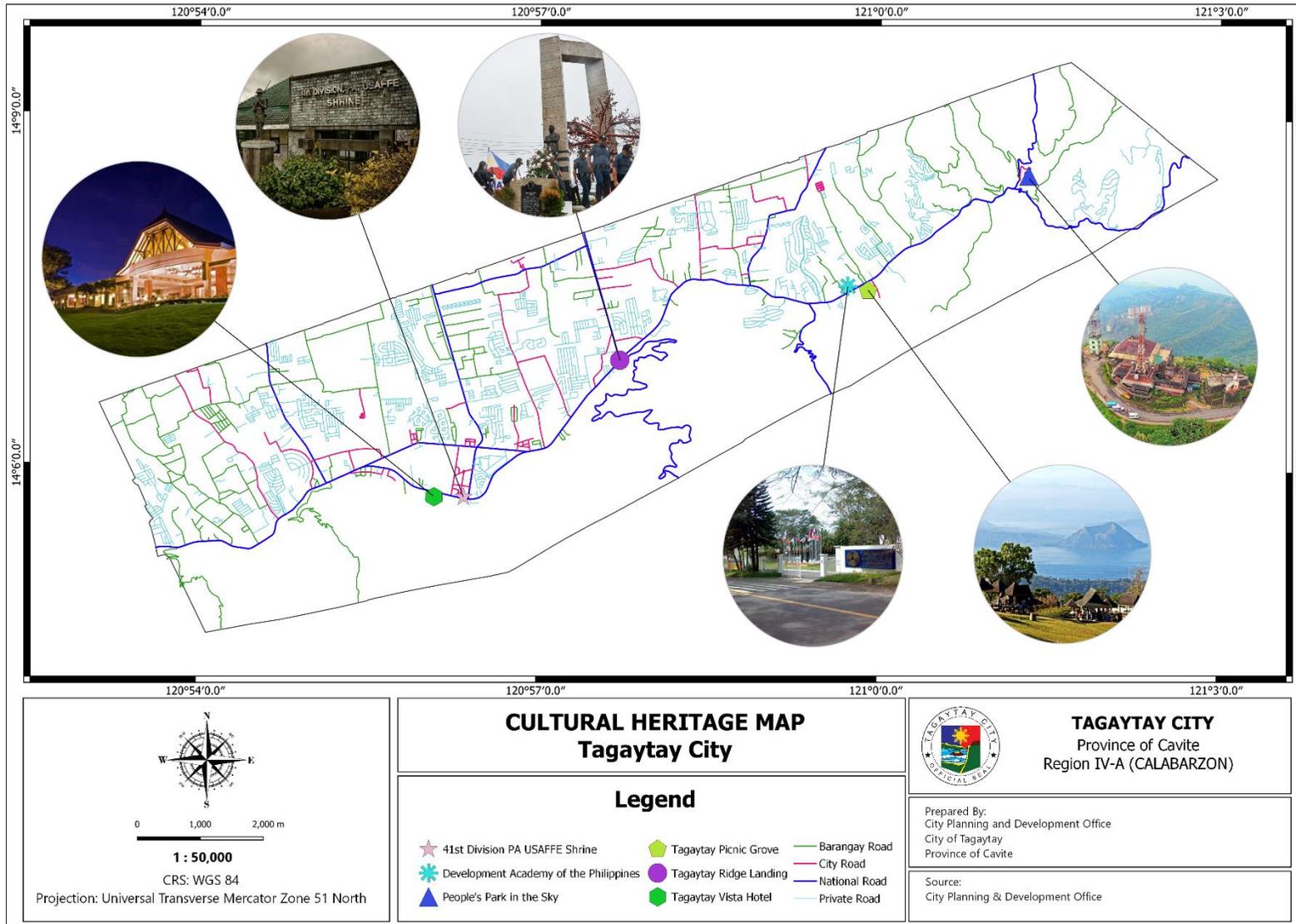


Table 65. Tourism Analysis Matrix

Technical Finding / Observation	Implications (Effects)	Policy Options/ Interventions
Occurrence of Taal Volcano Eruption, decrease of tourist arrival was experienced.	Establishments are forced to close due to safety purposes of the facility, employees and guests. Threat of air pollution (e.g. inhalation of sulfur dioxide) is present due to ash fall.	In aid of cleaning the roofs of establishments, vicinity and roads, service from our Bureau of Fire Protection (BFP) was existent. -Before resuming the operation of these affected establishments, inspection from CHO, BPLO, TCDO & TCDRMO was done. It ensures the health welfare of tourists and guests.
Cases of Covid-19 Pandemic arise.	Implementation of IATF Guidelines directly affects the operation of Tourism Related Establishments. (e.g. Skeletal Workforce, lay off employees, operation hours were limited, etc.)	-DOT-DOLE Joint Memorandum Circular provided cash assistance for displaced tourism workers. -DOLE TUPAD Program for displaced tourism workers.
Implementations of IATF Guidelines and local protocols.	-Restrictions on the operation of the establishments were affected. (Curfew hours, age restriction and venue capacity) -accommodation establishment can only accept leisure travellers/ APOR if they have DOT Accreditation.	-Safety Seal Certification was awarded to establishments after passing the inspection by the Local Inspection Team led by CHO, TCDO, & BPLO.
Requirements on employment	Increasing number of Covid-19 cases.	-prioritization of vaccine for tourism workers were announced and implemented.

4.5 Natural Resource-Based Production Areas Exposure and Risk to Hazard

The natural resource-based production areas that were observed are mainly agricultural-mixed areas planted with perennial crops like vegetables, fruits and root crops. The vulnerabilities recorded in the natural resource-based production areas of the City are presence of irrigation facilities, water impounding facilities, and sustainable production techniques. On the other hand, adaptive capacities that were analyzed were the availability and access to alternative livelihood, hazard mitigation measures/structures, post-disaster economic protection, information, government extension programs related to CCA-DRR, and government infrastructure projects related to CCA-DRR.

4.5.1 Exposure to Hazard

About 124.61 hectares (5.52%) of agricultural area are at high susceptibility to landslide, and are found at barangays Bagong Tubig, Calabuso, Dapdap East, Dapdap West, Francisco, Iruhin Central, Iruhin East, Iruhin West, Sambong, Sungay East and Sungay West. Moderately susceptible agricultural areas are found to be about 78.29 hectares (3.47%) and are found at Asisa, Dapdap West, Guinhawa North, Guinhawa South, Iruhin Central, Iruhin East, Iruhin West, Kaybagal Central, Kaybagal North, Mag-asawang Ilat, Maharlika West, Maitim II West, Mendez Crossing West, Neogan, Patuto Malaki North, Patuto Malaki South, San Jose, Tolentino East, and Zambal. The rest are low susceptibility areas (91.01%).

4.5.2 Risk to Hazards

Agricultural areas with high risk to landslide are estimated to be about 46.57 hectares with an approximately replacement cost of about PhP 42,494,887,148.73 located at Bagong Tubig, Calabuso, Dapdap East, Dapdap West and Sambong. Those at moderate risk are about 1,013.71 hectares and the possible replacement cost for the whole property is about PhP 1,228,161,480,222.61. Moreover, areas at low risk are about 51.65 hectares, with a possible affected value of 20,329,537,466.17.

Table 66. Natural Resource-based Production Areas Exposure Database

Brgy	Type of crop	Landslide Susceptibility	Total City/ Municipal Area Allocation	Varieties Produced	Average Output Per Hectare (PHP)	Affected Area (Sq. M)	Affected Value (PHP)	Exposure %	Total Number Of Dependent Hhs or Families to Affected Areas	With Irrigation Facilities (For Agricultural Croplands and Riceland)	With Water Impounding (For Agricultural Croplands and Riceland)	Employing Sustainable Production Techniques	With Access to Alternative Livelihood	Affected Areas Covered or Protected by Hazard Mitigation Measures/ Structures	With Access To Post-Disaster Economic Protection	With Access to Information	Government Extension Programs Related To CCAM-DRR	Government Infrastructure Projects Related To CCAM-DRR	Risk
Asisan	Perennial	Low	500480.2661	Lettuce, Ginger, Sayote, Pineapple, Coconut, Balinghoy, Kamoteng Kahoy, Coffee	108800	471620.4178	51312301458	0.9423356918	52	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate

Brgy	Type of crop	Landslide Susceptibility	Total City/ Municipal Area Allocation	Varieties Produced	Average Output Per Hectare (PHP)	Affected Area (Sq. M)	Affected Value (PHP)	Exposure %	Total Number Of Dependent Hhs or Families to Affected Areas	With Irrigation Facilities (For Agricultural Croplands and Riceland)	With Water Impounding (For Agricultural Croplands And Riceland)	Employing Sustainable Production Techniques	With Access to Alternative Livelihood	Affected Areas Covered or Protected by Hazard Mitigation Measures/ Structures	With Access To Post-Disaster Economic Protection	With Access to Information	Government Extension Programs Related To CCAM-DRR	Government Infrastructure Projects Related To CCAM-DRR	Risk
Asisan	Perennial	Moderate	500480.2661	Lettuce, Ginger, Sayote, Pineapple, Coconut, Balinghoy, Kamoteng Kahoy, Coffee	27200	28859.84829	784987873.5	0.05766430816	13	No	No	No	Yes	No	No	Yes	Yes	Yes	Low
Bagong Tubig	Perennial	High	67553.51251	Coconut, Kamoteng Kahoy, Sitaw, Ginger, Mustard, Banana	250650	67553.51251	16932287911	1	6	No	No	No	Yes	No	No	Yes	Yes	Yes	High
Calabuso	Perennial	High	202147.8315	Coffee, Sitaw, Okra, Pechay, Banana, Ube, Black Pepper	120000	202147.8315	24257739781	1	43	No	No	No	Yes	No	No	Yes	Yes	Yes	High
Dapdap East	Perennial	High	60547.94515	Guyabano, Ginger, Coffee	8120	60547.94515	491649314.6	1	19	No	No	No	Yes	No	No	Yes	Yes	Yes	High
Dapdap West	Perennial	Moderate	121803.734	Pineapple, Banana, Coffee	3122	34465.82485	107602305.2	0.2829619728	9	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Dapdap West	Perennial	High	121803.734	Pineapple, Banana, Coffee	7328	87337.90911	640012198	0.7170380272	21	No	No	No	Yes	No	No	Yes	Yes	Yes	High
Francisco	Perennial	Low	563108.7302	Pineapple, Banana, Langka, Radish, Eggplant, Pechay, Chili Pepper, Tomato, Squash, Beans, Kamoteng Kahoy, Mango, Dragonfruit, Ampalaya, Sayote, Coconut	306729	535355.7514	164209134262	0.9507147068	68	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Francisco	Perennial	High	563108.7302	Pineapple, Banana, Langka, Radish, Eggplant, Pechay, Chili Pepper, Tomato, Squash, Beans, Kamoteng Kahoy, Mango, Dragonfruit, Ampalaya, Sayote, Coconut	81479.2	27752.97885	2261290514	0.04928529316	20	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Guinawa North	Perennial	Low	480346.645	Pineapple, Coffee, Langka, Dragonfruit	71140	461618.3507	32839529471	0.9610108773	40	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Guinawa North	Perennial	Moderate	480346.645	Pineapple, Coffee, Langka, Dragonfruit	12880	18728.29427	241220430.2	0.03898912268	7	No	No	No	Yes	No	No	Yes	Yes	Yes	Low
Guinawa South	Perennial	Low	454941.053	Pineapple, Dragonfruit, Jackfruit, Sayote	32186	412691.5295	13282889570	0.907131873	41	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Guinawa South	Perennial	Moderate	454941.053	Pineapple, Dragonfruit, Jackfruit, Sayote	101647	42249.52347	4294537312	0.09286812696	16	No	No	No	Yes	No	No	Yes	Yes	Yes	Low
Iruhin Central	Perennial	Low	431955.3309	Pineapple, Dragonfruit, Pechay, Eggplant, Chili Pepper, Sayote	2439	23180.65522	56537618.08	0.05366447306	9	No	No	No	Yes	No	No	Yes	Yes	Yes	Low
Iruhin Central	Perennial	Moderate	431955.3309	Pineapple, Dragonfruit, Pechay, Eggplant, Chili Pepper, Sayote	5324	207078.7039	1102487020	0.4793984217	19	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Iruhin Central	Perennial	High	431955.3309	Pineapple, Dragonfruit, Pechay, Eggplant, Chili Pepper, Sayote	2757	201695.9718	556075794.3	0.4669371052	9	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Iruhin East	Perennial	Low	486203.9629	Pineapple, Guyabano, Banana, Papaya, Coffee, Coconut, Root Crops	11456	51885.87051	594404532.6	0.1067162641	7	No	No	No	Yes	No	No	Yes	Yes	Yes	Low
Iruhin East	Perennial	Moderate	486203.9629	Pineapple, Guyabano, Banana, Papaya, Coffee, Coconut, Root Crops	16300	50388.63909	821334817.2	0.1036368334	11	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate

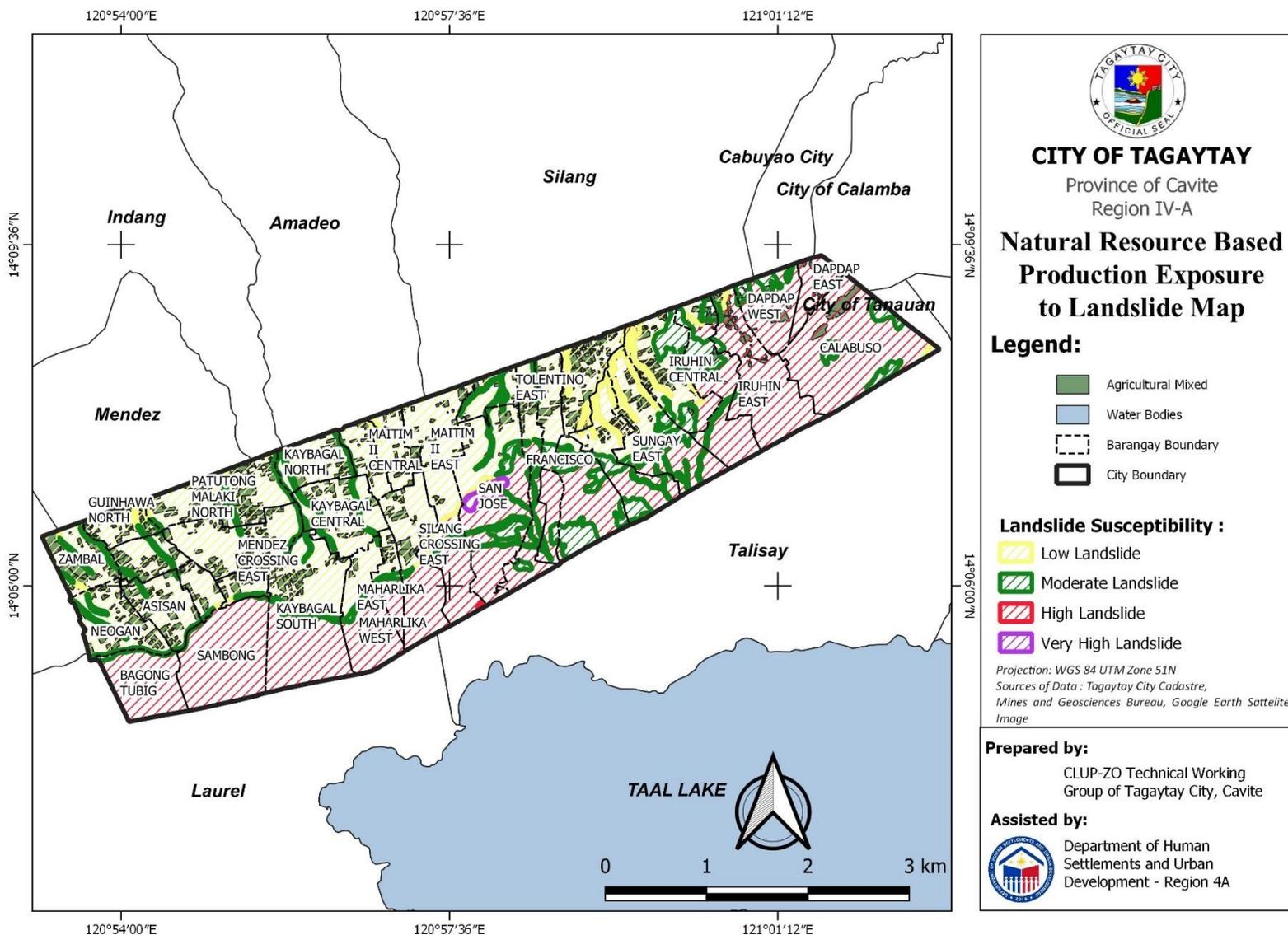
Brgy	Type of crop	Landslide Susceptibility	Total City/ Municipal Area Allocation	Varieties Produced	Average Output Per Hectare (PHP)	Affected Area (Sq. M)	Affected Value (PHP)	Exposure %	Total Number Of Dependent Hhs or Families to Affected Areas	With Irrigation Facilities (For Agricultural Croplands and Riceland)	With Water Impounding (For Agricultural Croplands And Riceland)	Employing Sustainable Production Techniques	With Access to Alternative Livelihood	Affected Areas Covered or Protected by Hazard Mitigation Measures/ Structures	With Access To Post-Disaster Economic Protection	With Access to Information	Government Extension Programs Related To CCAM-DRR	Government Infrastructure Projects Related To CCAM-DRR	Risk
Iruhin East	Perennial	High	486203.9629	Pineapple, Guyabano, Banana, Papaya, Coffee, Coconut, Root Crops	38504	383929.4533	14782819671	0.7896469025	25	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Iruhin West	Perennial	Low	532873.1424	Pineapple, Banana	13483	404176.523	5449512059	0.7584854458	28	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Iruhin West	Perennial	Moderate	532873.1424	Pineapple, Banana	2092	32466.61047	67920149.1	0.06092746639	4	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Iruhin West	Perennial	High	532873.1424	Pineapple, Banana	4525	96230.00895	435440790.5	0.1805870878	10	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Kaybaga I Central	Perennial	Low	514741.2393	Kamoteng Kahoy, Ube, Banana, Luya, Pineapple, Coffee, Beans, Corn , Sitaw, Black Pepper	42405	463390.2418	19650063204	0.9002392006	42	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Kaybaga I Central	Perennial	Moderate	514741.2393	Kamoteng Kahoy, Ube, Banana, Luya, Pineapple, Coffee, Beans, Corn , Sitaw, Black Pepper	19745	51350.99753	1013925446	0.09976079942	19	No	No	No	Yes	No	No	Yes	Yes	Yes	Low
Kaybaga I North	Perennial	Low	336844.5288	Coconut, Pineapple, Banana, Guyabano, Papaya, Ube	4382	316387.9815	1386412135	0.9392700621	38	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Kaybaga I North	Perennial	Moderate	336844.5288	Coconut, Pineapple, Banana, Guyabano, Papaya, Ube	2298	20456.5473	47009145.7	0.06072993786	19	No	No	No	Yes	No	No	Yes	Yes	Yes	Low
Kaybaga I South	Perennial	Low	56528.10888	Pineapple, Labanos, Kamoteng Kahoy,	1030	56528.10888	58223952.15	1	7	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Mag-Asawang Ilat	Perennial	Low	91251.27214	Eggplant, Okra, Kamote, Papaya, Malunggay, Corn, Pechay, Tomato, Banana, Pineapple, Balinghoy, Pumpkin, Sitao, Sayote, Chili Pepper, Kalamansi, Bell Pepper	24881	82147.34991	2043908213	0.9002323801	28	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Mag-Asawang Ilat	Perennial	Moderate	91251.27214	Eggplant, Okra, Kamote, Papaya, Malunggay, Corn, Pechay, Tomato, Banana, Pineapple, Balinghoy, Pumpkin, Sitao, Sayote, Chili Pepper, Kalamansi, Bell Pepper	6369	9103.92223	57982880.68	0.09976761985	7	No	No	No	Yes	No	No	Yes	Yes	Yes	Low
Maharlika East	Perennial	Low	48945.34628	Pineapple, Labanos	950	48945.34628	46498078.97	1	17	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Maharlika West	Perennial	Low	107922.9937	Pineapple, Corn, Banana, Kamoteng Kahoy, Lettuce, Pechay	1557	101758.1344	158437415.2	0.9428772389	11	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Maharlika West	Perennial	Moderate	107922.9937	Pineapple, Corn, Banana, Kamoteng Kahoy, Lettuce, Pechay	173	6164.85939	1066520.674	0.05712276111	1	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Maitim II Central	Perennial	Low	163459.9223	Kamoteng Kahoy, Banana, Ginger, Pumpkin, Pechay, Lettuce, Sitaw, Okra, Eggplant	5350	163459.9223	874510584.4	1	41	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Maitim II East	Perennial	Low	126773.9113	Banana, Pechay, Sayote, Eggplant, Pineapple, Papaya, Langka, Okra, Balinghoy, Coconut, Watermelon	17170	126773.9113	2176708057	1	50	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Maitim II West	Perennial	Low	346856.76	Coffee, Banana, Pineapple, Papaya, Luya, Ube, Kamoteng Kahoy, Pechay, Sitaw, Okra, Eggplant	3717	345582.7672	1284531146	0.996327035	33	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate

Brgy	Type of crop	Landslide Susceptibility	Total City/ Municipal Area Allocation	Varieties Produced	Average Output Per Hectare (PHP)	Affected Area (Sq. M)	Affected Value (PHP)	Exposure %	Total Number Of Dependent Hhs or Families to Affected Areas	With Irrigation Facilities (For Agricultural Croplands and Riceland)	With Water Impounding (For Agricultural Croplands And Riceland)	Employing Sustainable Production Techniques	With Access to Alternative Livelihood	Affected Areas Covered or Protected by Hazard Mitigation Measures/ Structures	With Access To Post-Disaster Economic Protection	With Access to Information	Government Extension Programs Related To CCAM-DRR	Government Infrastructure Projects Related To CCAM-DRR	Risk
Maitim II West	Perennial	Moderate	346856.76	Coffee, Banana, Pineapple, Papaya, Luya, Ube, Kamoteng Kahoy, Pechay, Sitaw, Okra, Eggplant	413	1273.99275	526159.0058	0.003672965031	4	No	No	No	Yes	No	No	Yes	Yes	Yes	Low
Mendez Crossing East	Perennial	Low	4793.97326	Banana, Pineapple	150	4793.97326	719095.989	1	1	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Mendez Crossing West	Perennial	Low	155237.3634	Banana, Pineapple	1455	154398.6171	224649.9879	0.9945970072	14	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Mendez Crossing West	Perennial	Moderate	155237.3634	Banana, Pineapple	45	838.74636	37743.5862	0.00540299282	1	No	No	No	Yes	No	No	Yes	Yes	Yes	Low
Neogan	Perennial	Low	718131.8157	Pineapple, Coffee, Langka, Guyabano, Kalamansi, Banana, Gabi	11206	664088.4271	744177.4914	0.9247444725	58	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Neogan	Perennial	Moderate	718131.8157	Pineapple, Coffee, Langka, Guyabano, Kalamansi, Banana, Gabi	229	54043.38857	123759.3598	0.07525552745	2	No	No	No	Yes	No	No	Yes	Yes	Yes	Low
Patuto Malaki North	Perennial	Low	1511291.312	Pineapple, Coffee, Banana, Okra, Sitaw, Pechay, Cabbage	344000	143922.1586	495092.225673	0.9523124858	36	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Patuto Malaki North	Perennial	Moderate	1511291.312	Pineapple, Coffee, Banana, Okra, Sitaw, Pechay, Cabbage	56000	72069.72588	403590.4649	0.04768751418	6	No	No	No	Yes	No	No	Yes	Yes	Yes	Low
Patuto Malaki South	Perennial	Low	1042784.777	Pineapple, Coconut, Avocado, Jackfruit	283620	997280.57	282848.715275	0.9563628011	35	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Patuto Malaki South	Perennial	Moderate	1042784.777	Pineapple, Coconut, Avocado, Jackfruit	42380	45504.2067	192846.8280	0.04363719889	5	No	No	No	Yes	No	No	Yes	Yes	Yes	Low
Sambong	Perennial	High	48110.54009	Corn, Kamoteng Kahoy, Sitaw, Banana, Coconut	3600	48110.54009	173197.944.3	1	21	No	No	No	Yes	Yes	No	Yes	Yes	Yes	High
San Jose	Perennial	Low	142280.2326	Pineapple, Sitaw, Kamote, Coconut, Ube, Kamoteng Kahoy, Sayote, Corn, Pechay, Eggplant, Labanos, Bell Pepper, Pepper, Kamatis, Upo, Pumpkin, Banana, Cabbage	190643	135927.9087	259137.04293	0.9553534333	24	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
San Jose	Perennial	Moderate	142280.2326	Pineapple, Sitaw, Kamote, Coconut, Ube, Kamoteng Kahoy, Sayote, Corn, Pechay, Eggplant, Labanos, Bell Pepper, Pepper, Kamatis, Upo, Pumpkin, Banana, Cabbage	75231	6352.32394	477891.682.3	0.04464656701	9	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Silang Crossing West	Perennial	Low	239290.3335	Banana, Labanos, Eggplant, Corn, Pineapple	1750	239290.3335	418758.083.7	1	10	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Sungay East	Perennial	Low	330821.381	Pineapple, Okra, Mustard, Kangkong	13000	265149.0288	344693.7374	0.8014869776	29	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate

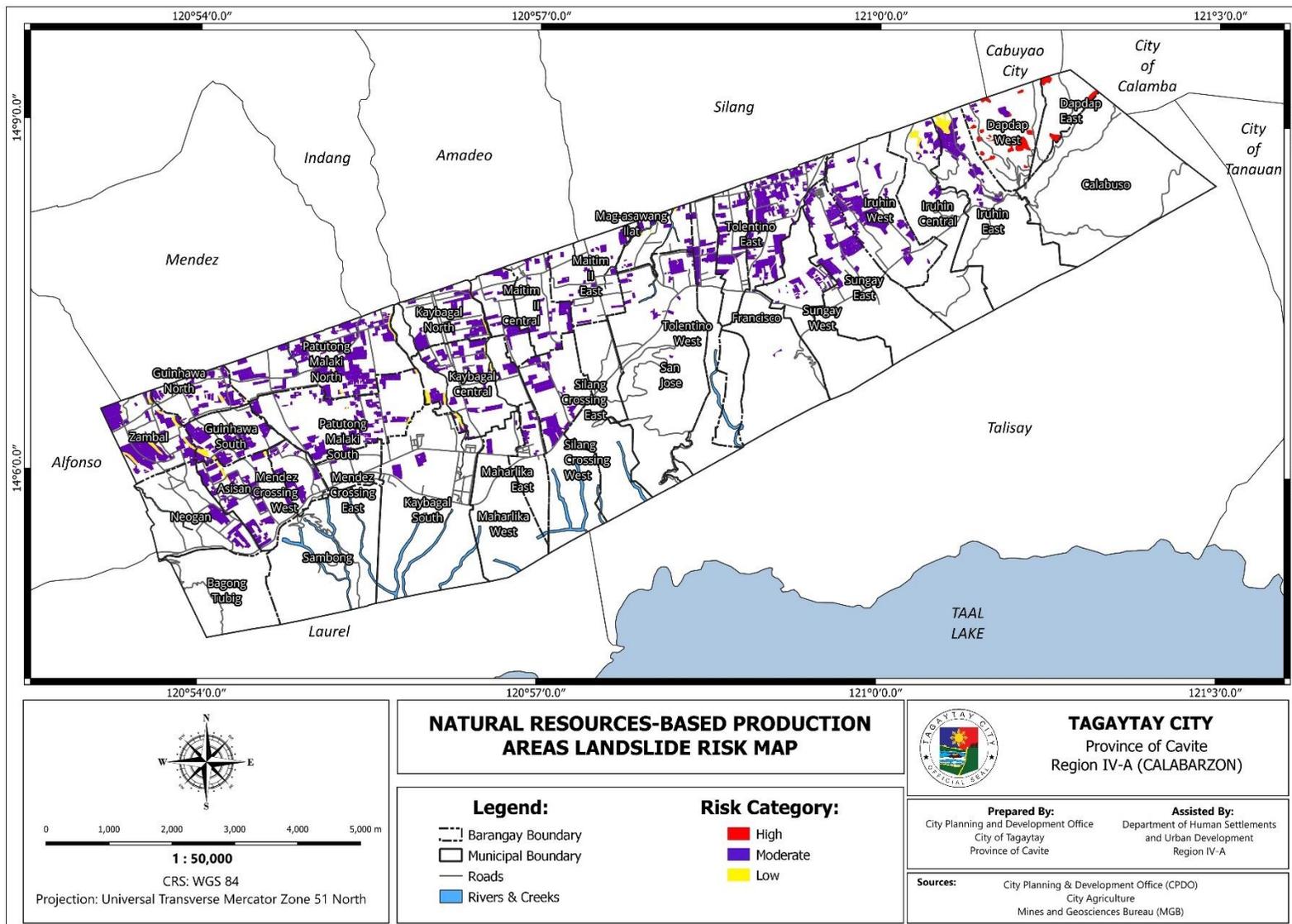
Brgy	Type of crop	Landslide Susceptibility	Total City/ Municipal Area Allocation	Varieties Produced	Average Output Per Hectare (PHP)	Affected Area (Sq. M)	Affected Value (PHP)	Exposure %	Total Number Of Dependent Hhs or Families to Affected Areas	With Irrigation Facilities (For Agricultural Croplands and Riceland)	With Water Impounding (For Agricultural Croplands And Riceland)	Employing Sustainable Production Techniques	With Access to Alternative Livelihood	Affected Areas Covered or Protected by Hazard Mitigation Measures/ Structures	With Access To Post-Disaster Economic Protection	With Access to Information	Government Extension Programs Related To CCAM-DRR	Government Infrastructure Projects Related To CCAM-DRR	Risk
Sungay East	Perennial	High	330821.381	Pineapple, Okra, Mustard, Kangkong	7000	65672.35222	459706465.5	0.1985130224	15	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Sungay West	Perennial	Low	100207.9048	Pineapple, Banana, Balinghoy, Sitaw, Okra, Mustasa, Tomato, Pumpkin, Chili Pepper, Pechay, Eggplant	9415	95061.70691	895005970.6	0.9486447907	6	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Sungay West	Perennial	High	100207.9048	Pineapple, Banana, Balinghoy, Sitaw, Okra, Mustasa, Tomato, Pumpkin, Chili Pepper, Pechay, Eggplant	495	5146.19793	2547367.975	0.05135520933	1	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Tolentino East	Perennial	Low	145048.1144	Pineapple, Coffee, Banana, Cassava	4334	140430.284	608624850.6	0.9681634575	64	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Tolentino East	Perennial	Moderate	145048.1144	Pineapple, Coffee, Banana, Cassava	1016	4617.83046	4691715.747	0.03183654251	15	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Tolentino West	Perennial	Low	110172.9138	Pineapple, Lettuce, Tomato, Pepper, Cherry Tomato, Eggplant, Sayote, Cabbage, Pechay	163916	110172.9138	18059103334	1	45	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Zambal	Perennial	Low	875766.0089	Pineapple, Coffee, Sayote, Banana, Ube, Gabi, Papaya, Kamoteng Kahoy, Langka, Pumpkin, Eggplant	99323	778850.0846	77357726954	0.8893358234	67	No	No	No	Yes	No	No	Yes	Yes	Yes	Moderate
Zambal	Perennial	Moderate	875766.0089	Pineapple, Coffee, Sayote, Banana, Ube, Gabi, Papaya, Kamoteng Kahoy, Langka, Pumpkin, Eggplant	74927	96915.92429	7261619459	0.1106641766	33	No	No	No	Yes	No	No	Yes	Yes	Yes	Low

Source: CDRA Results (2023)

Map 27. Natural Resource-based Production Exposure to Landslide Map



Map 28. Natural Resource-based Production Areas Landslide Risk Map



Chapter 5. INFRASTRUCTURE/ UTILITIES/ FACILITIES

The upgrading of the city's entire physical infrastructure system shall be undertaken in order to cope with the increasing development activities. One of the highlights is the construction of the new arterial highway. The highway implementation has to be complemented by the judicious application of land use policies. Otherwise, the city may be engulfed by urbanization, as developable lands may be accessible from north to south.

The construction and completion of the by-pass road taking-off from the intersection of the Tagaytay-Batangas Arterial Highway and the Tagaytay-Manila via Silang Road westward to the town of Alfonso is already on-going. The city has succeeded in its lobbying effort for this long-time conceived project of DPWH. This shall serve as the primary inter-town route significantly reducing urban pressure along the prime strip of the City, which is mainly due to inter-town traffic.

An added feature of this Spatial Development Strategy is the on-going arterial highway towards the east initially connecting to the Tagaytay-Sta. Rosa Road traversing the Kaykulot Road in Barangay Sungay East and thence to the Tagaytay-Canlubang Road. The purpose of this is to direct inter-town traffic from Laguna (Sta. Rosa, Canlubang and Calamba) to the arterial highway (westward) avoiding the passage through the Tagaytay-Sta. Rosa Road and Isaac Tolentino Avenue.

5.1 Inventory of Roads by Classification

For purposes of prioritizing the development maintenance of the roads within Tagaytay, the city's circulation system is thus, categorized into three (3) functional hierarchical classifications: national highways, arterial collector and service road classification. Based on these classifications, roads characterized as arterial are given top priority as to development/maintenance while the service roads are comparatively given low priority.

The major arterial road of the city is the national Highway horizontally traversing the city. Aside from being the city's primary road, which links most of the city's barangays, it also serves as a national thoroughfare connecting Tagaytay to the province of Laguna and to the province of Batangas.

Table 67. Inventory of Roads in Tagaytay by Classifications

Name of Road	Length (km)	Type of Pavement
I. NATIONAL ROADS	47.47	Asphalt/Concrete
II. CITY ROADS	30.943	Asphalt/Concrete/ Gravel
III. BARANGAY ROADS	79.146	Asphalt/Concrete/ Gravel
IV. PRIVATE ROADS	179.125	Concrete Gravel
Grand Total	336.684 km	

Source: City Engineering Office - Tagaytay

5.2 Bridges

The city has a total of five (5) bridges, two of which are maintained by the national government and three by the City Government. The bridges classified as national are both situated at

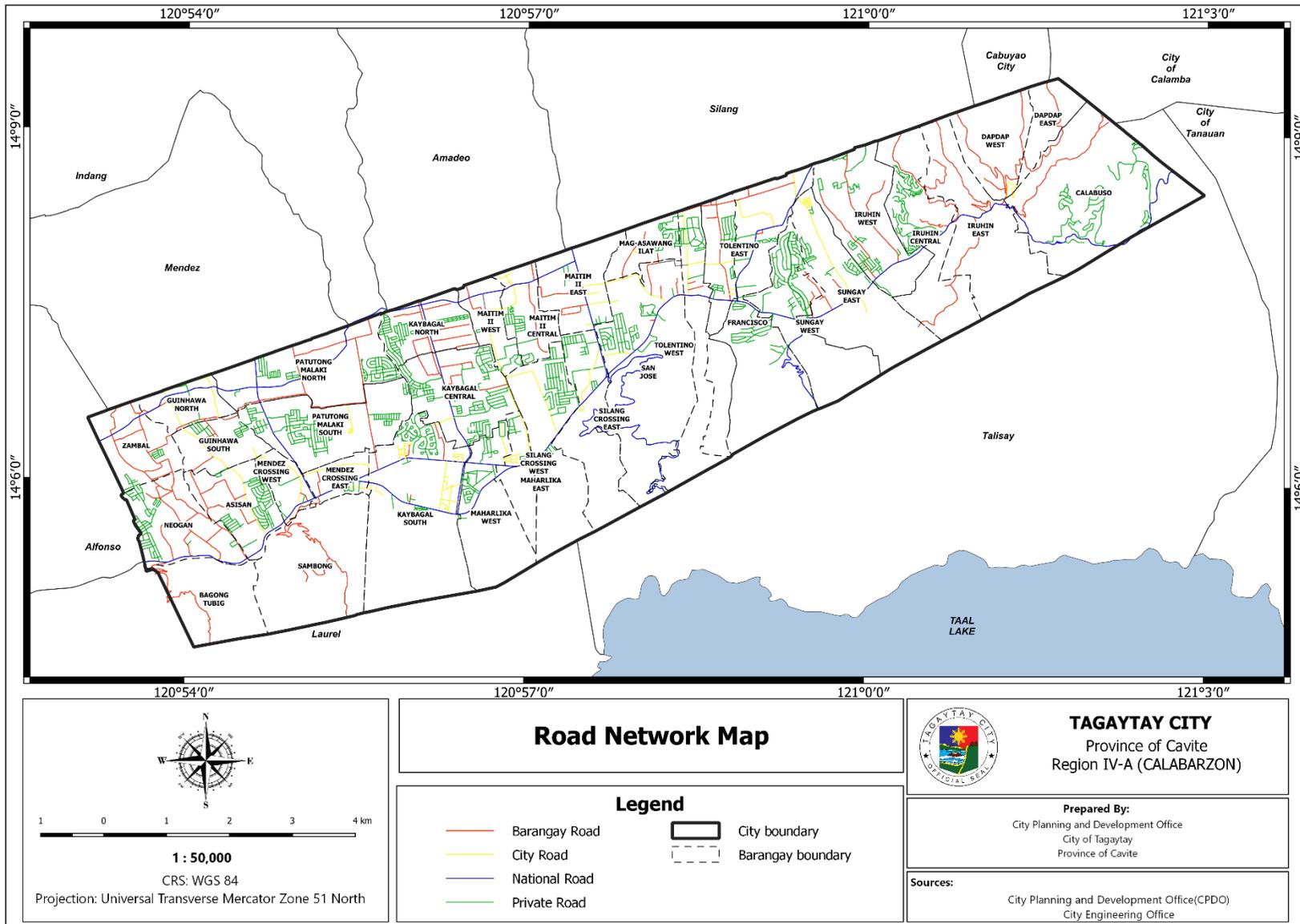
Barangay Silang Crossing and are made of concrete. The bridges maintained by the City Government are located at Barangays Neogan, Kaybagal and Zambal.

Table 68. Inventory of Bridges in Tagaytay by Classifications

Name of Bridge	Classification	Administrative Classification	Length	Location	Maximum Capacity	Type of Construction
Alingayngay Bridge	Concrete	National	8 m	Tagaytay-Taal Lake Road	20 Tons	Concrete
Pinaglintikan Bridge	Concrete	National	15 m	Tagaytay-Taal Lake Road	20 Tons	Concrete
Sta. Rita Bridge	Concrete Box Culvert	Barangay	6 m	Kaybagal	8 Tons	Culvert
Zambal Bridge	Concrete Beam-Type	Barangay	4 m	Kaybagal	8 Tons	Culvert
Neogan Bridge	Reinforced Concrete Pipes	Barangay	4 m	Kaybagal	8 Tons	Culvert

Source: City Engineering Office - Tagaytay

Map 29. Road Network Map of Tagaytay City



5.3 Flood control and Drainage Facilities

Due to the rugged terrain of the land, the major drainage outfalls of the city are those existing creeks (intermittent creeks). These intermittent creeks fall in three (3) major water bodies, the Manila Bay, Taal Lake and Laguna de Bay.

All areas/land on the northern portion of the Tagaytay-Nasugbu Road draws to Manila Bay traversing the Municipality of Mendez, Indang, Amadeo and other downstream Municipality covered by three (3) Major River System the Maragondon River System, Cañas-Maalimango River System, and Rio-Grande River System.

All areas/land on the northern portion of the Isaac Tolentino Avenue drains to Laguna de Bay traversing the Municipality of Silang, City of Sta. Rosa, Municipality of Carmona, City of San Pedro and City of Calamba through the San Pedro and San Cristobal River System.

All areas/Land in the southern portion of Tagaytay-Nasugbu Road and Isaac Tolentino Avenue, both National Roads, drains to Tall Lake passing the Municipality of Talisay and Laurel.

Current condition of Drainage System

All rainwater and storm drain are being collected mostly by existing road drainage and canal, some naturally drain to low-lying open areas leading to the existing creeks. These existing drainage systems fall also on the creeks within the area.

Existing national roads and provincial roads within the territorial jurisdiction of Tagaytay City have drainage canal/ pipes constructed by the Department of Public Works and Highways (DPWH).

Some city roads and barangay roads have drainage canal but most of them have no drainage except those barangay roads of barangay Calabuso, Sambong, Bagong Tubig, Iruhin East and Iruhin Central where in the type of road profile is Type-C, drainage is not appropriate due to slope on both sides of the road which are steep slope downward.

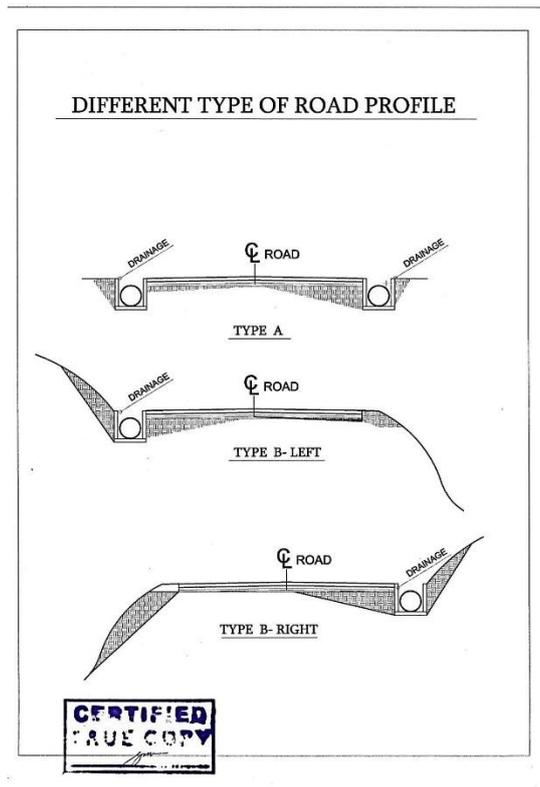


Figure 14. Types of Road Profile for Drainage System

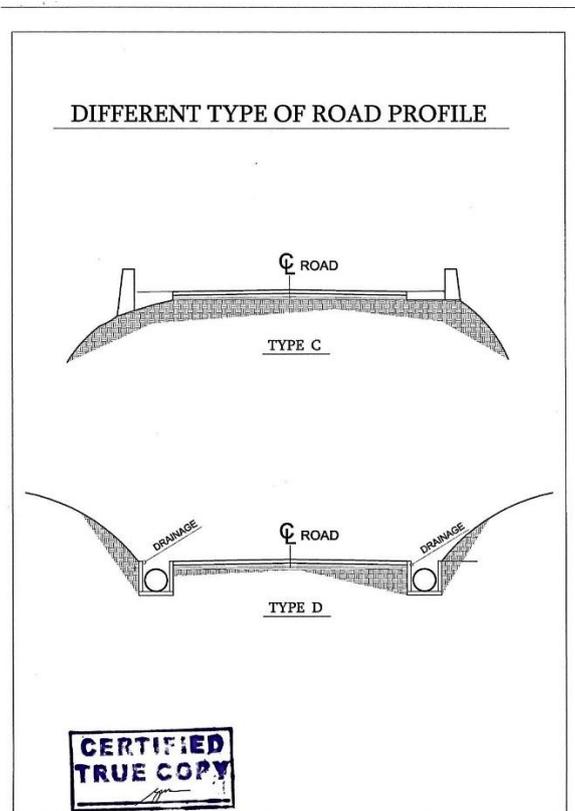


Figure 15. Types of Drainage Canal

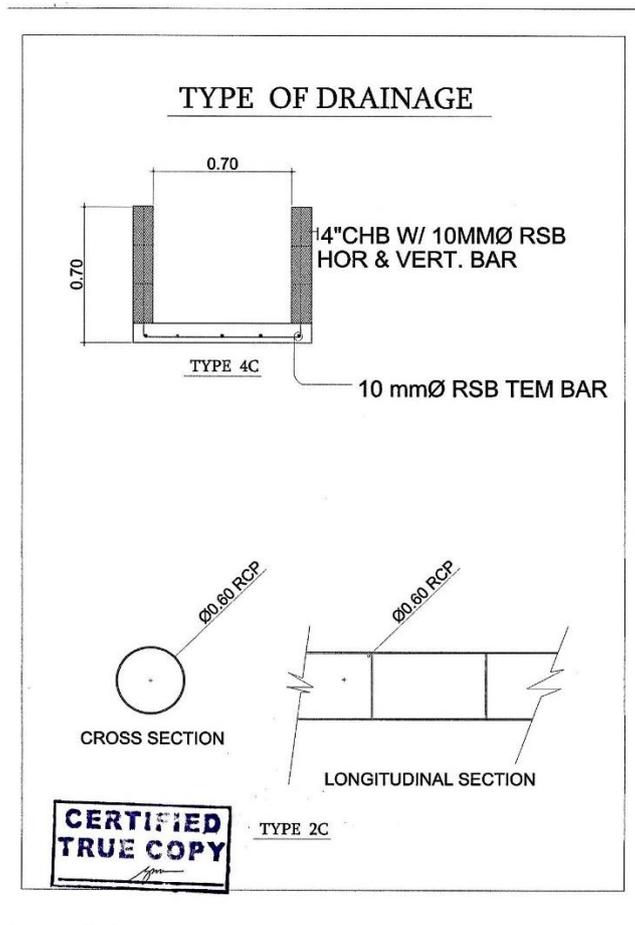


Figure 16. Types of Drainage Canal

5.4 Domestic Water Supply

Major Sources of Potable Water

The city’s main sources of water are springs, rainwater and ground water. The main springs are: Kaybubutong Spring located at Barangay Sambong -serving eighteen (18) barangays; Matang Tubig in Barangay Francisco which serves eight (8) barangays and the Pulong Usiw Spring located at Barangay Iruhin Central - serving the adjacent barangays. Monthly bacterial testing is made to ensure that clean and safe potable water is provided to the inhabitants.

The Kaybubutong Spring has an estimated total water output of 118 liters per second and is situated at an elevation of 324 meters. The Matang Tubig Spring on the other hand, has a capacity of 11.35 liters per second and has an altitude of 505 meters. Pulong Usiw has a capacity of 1.76 liters per second. Majority of the barangays depend on these springs. There are also minor springs within the city from which the residents draw water, namely:

- 1. Banauan Spring - Barangay Iruhin East
- 2. Naalas Spring - Barangay San Jose
- 3. Alingayngay Spring - Barangay Silang Crossing
- 4. Ambon-ambon - Barangay Iruhin East
- 5. Bayanan Spring - Dapdap West

6. Calabuso Spring - Brgy. Calabuso

Type of Water System

The city's main sources of water are springs, rainwater and ground water. The main springs are: Kaybubutong Spring, which are located at Barangay Sambong and Matang Tubig Spring in Barangay Francisco. Monthly bacterial testing is made to ensure that safe potable water is served to the inhabitants.

The Kaybubutong Spring has an estimated total water output of 118 liters per second and is situated at an elevation of 324 meters. The Matang Tubig Spring on the other hand, has a capacity of 11.35 liters per second and has an altitude of 505 meters.

The barangays in the city which have water systems are those being served by the Tagaytay City Water District (TCWD). The TCWD derives its water supply from the city's two major springs. In each of these springs, it has set up waterworks facilities which include a spring intake structure, pump station, transmission line, distribution reservoir, distribution lines and appurtenances. Barangays Sambong and Bagong Tubig and Sitio Labak ng Sungay in Barangay Sungay East derive water from an elevated spring source by free flow through pipeline in Level II Water System. Barangay Calabuso, Dapdap West and Sitio Bulalong Matanda in Iruhin East obtain water from a spring below through submersible pump and operate in Level II Water System. Barangay Maitim II West and Maitim II Central get their water from deep well with a 5 Hp submersible pump also operate in level III Water System. Other deep wells in the city are privately owned.

As of December 2021, 17, 871 households are being served by the TCWD. Other households obtain water directly from springs, rainwater or deep wells. 33 out of 34 barangays are being served by TCWD-Prime Water Joint Venture Partnership.

Presently, 98.66% of the total number of households is being served by the TCWD. Other households obtain water directly from springs, rainwater or deep wells. Thirty-three (33) out of thirty-four (34) barangays are being served by Prime Water-TCWD.

5.5 Power Supply

Currently, 98.43% of the total household have access to electricity (MERALCO).

5.6 Transport Facilities

Tagaytay City occupies strategic pointing at the boundaries of Cavite, Batnagas and Laguna Provinces. Tagaytay is accessible by land from all directions through eight (8) national entrances and exits. The same roads likewise serve as the link between the city's barangays making all barangays accessible by road. Aside from being the city's primary road, it also serves as a national thoroughfare connecting the Province of Laguna and Province of Batangas. Running almost perpendicular to the main roads are eight (8) other arterial roads. At present, all of these are vital road linkages in as much as they provide access to the towns and cities in the Region including the Mega Manila.

Service roads also branch out from these arterial roads, which includes all the City and Barangay Roads in the area. Aside from serving as the main access of the population in the inner portion of Tagaytay, these roads are also used as farm-to-market roads.

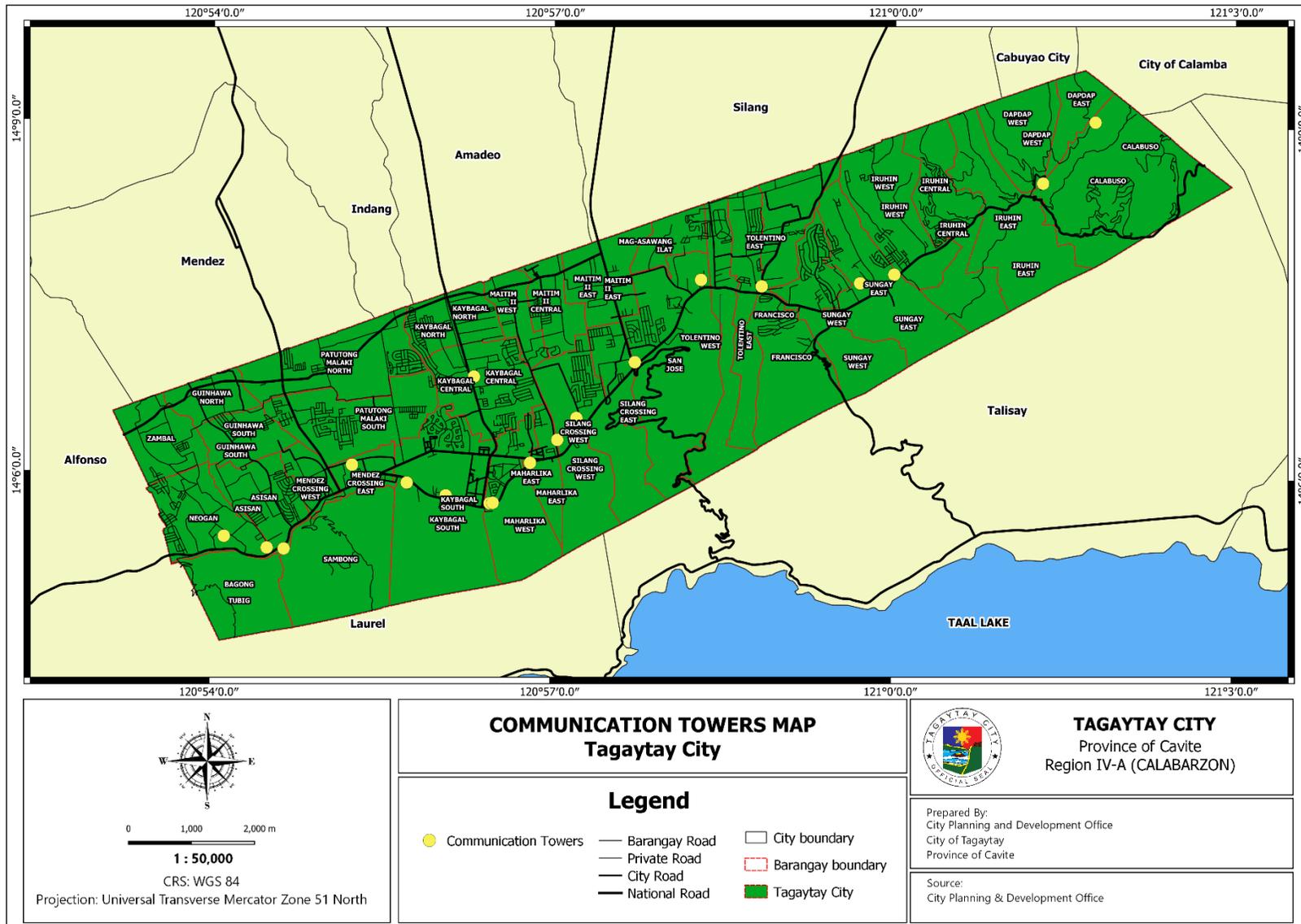
As in other towns and cities, the major modes of public transport in Tagaytay are buses, jeeps, vans and tricycles. These transit types provide mobility within and outside the city and which likewise provide transportation services to Tagaytay residents. Vans also provides public transport services going to Laguna and Metro Manila.

At present, the city has established a City Central Terminal. This public terminal is located strategically along the highway in Barangay Maitim II East used by public utility vehicles. Amenities of the terminal include: refreshment parlors, sari-sari stores, souvenir shops, etc.

5.7 Communication Facilities

There are about 16 National Government agencies situated and operating in the city. Most of these agencies are located in Barangay Kaybagal South, the city centrum, where the city hall also resides. It includes the Philippine Postal Corporation, Land Registration Authority (LRA), Philippine National Police (PNP), Bureau of Internal Revenue (BIR), the Philippine Institute of Volcanology and Seismology (Philvolcs), Commission on Audit (COA), National Telecommunication Commission (NTC), Land Transportation Office (LTO), Commission on Election (Comelec), Regional Trial Court (RTC), Department of Interior and Local Government (DILG), Bureau of Jail Management and Penology (BJMP), Bureau of Fire Protection (BFP). Others are the Department of Agrarian Reform (DAR) sited in barangay Maharlika West, and Social Security System in barangay Maharlika West.

Map 30. Communication Towers Map of Tagaytay City



5.8 Waste Disposal System

Solid Waste

It is the city's inherent environmental characteristics, which has fuelled its present state of growth. Environmental management measures are provided for the city's terrestrial, natural scenic environment, water resource and urban and rural environments. The protection and management of all these is the key towards sustaining the city's growth and development.

Increasing population is putting a lot of stress on the environment, particularly on the volume of waste generated by the residents and the commercial establishments in the city. The City generates an estimated average of 30 tons per day of garbage and collected an estimated average of 27 tons per day. The garbage collection is under the direct supervision of the City Environment and Natural Resources Office (CENRO) while the disposal is undertaken by a private hauler and disposed the same in an accredited landfill facility in Barangay San Antonio, San Pedro, Laguna.

With this volume of Solid Waste generated and collected, the City Government of Tagaytay in coordination with the barangays, private and business sectors, has implemented measures to lessen the impact of improper solid waste disposal in the City.

These measures being undertaken by the City Government are conduct of massive campaign on Waste Reduction, re-use and recycling. Households at the barangay level were given orientation on proper solid waste management including segregation at source. Business establishments including the two (2) public markets are encouraged to segregate their solid wastes and practice waste minimization. The residual wastes being collected are disposed in a sanitary landfill outside the City.

All Barangays of the City are encouraged to put up their own Material Recovery Facility or even an Ecology Center in order to comply with their mandates. Some households in the barangay are practicing composting and re-use and recycling of their generated solid waste.

Several Ordinances were passed by the City Council and implemented in the entire city to attain the goal of waste reduction. Also, in ordinance is enacted regulating the use of plastic bags and prohibiting the use of Styrofoam, and plastic residual waste in the City.

Liquid Waste

Tagaytay suffers from the absence of central sewerage system/waste water treatment system. Since these facilities require massive resources, the city business establishments are using natural drainage and a multi-chamber (sealed) septic vault.

5.9 Lifeline Exposure and Risk

The lifeline utilities observed in the municipality are the road networks. The vulnerabilities observed in the lifeline utilities of the City are surface type, existing condition, year constructed and employment of resilient design. On the other hand, adaptive capacities that were analyzed were the capacity and willingness to relocate or retrofit, presence of access to infrastructure-related mitigation measures, access to insurance coverage, government investments and government regulations of hazard mitigation, zoning and structural design standards.

5.9.1 Exposure to Hazards

There are about 15.9 kilometers of roads recorded in the city as of 2021. Based from the spatial analysis, about 1.19% of roads or 0.19 kilometers are subjected to very high susceptibility to landslide. This is only the national road located in Brgy. San Jose. Those under the high susceptibility to landslide registered about 3.94 kilometers or about 24.78% located at Bagong Tubig, Calabuso, Dapdap East, Dapdap West, Francisco, Iruhin Central, Iruhin East, Iruhin West Mendez Crossing East, Mendez Crossing West, Neogan, Sambong, San Jose, Silang Crossing East, Sungay East, Sungay West, and Tolentino West. Moreover, those under moderate susceptibility are only 3.71% or 0.58 kilometers. The rest (11.18 kilometers or about 70.31%) are at low susceptibility.

5.9.2 Risk to Hazards

Road networks at very high risk to landslide was registered to be about 1.01 km and an estimated of about PhP 100, 542, 443.00 worth of replacement cost if affected fully by the hazard. These are found in Bagong Tubig, Calabuso, Dapdap East, Dapdap West and Sambong. Those at high risk to landslide are estimated to be about 1.90 km and a total replacement cost of about PhP 23, 288, 810.00. When it comes to lifeline utilities at moderate risk, about 12.47 km are affected with about PhP 1, 238, 768, 381.00. The remaining road networks are at low risk with 0.51 km affected and a possible replacement cost of about PhP 51, 470, 874.00.

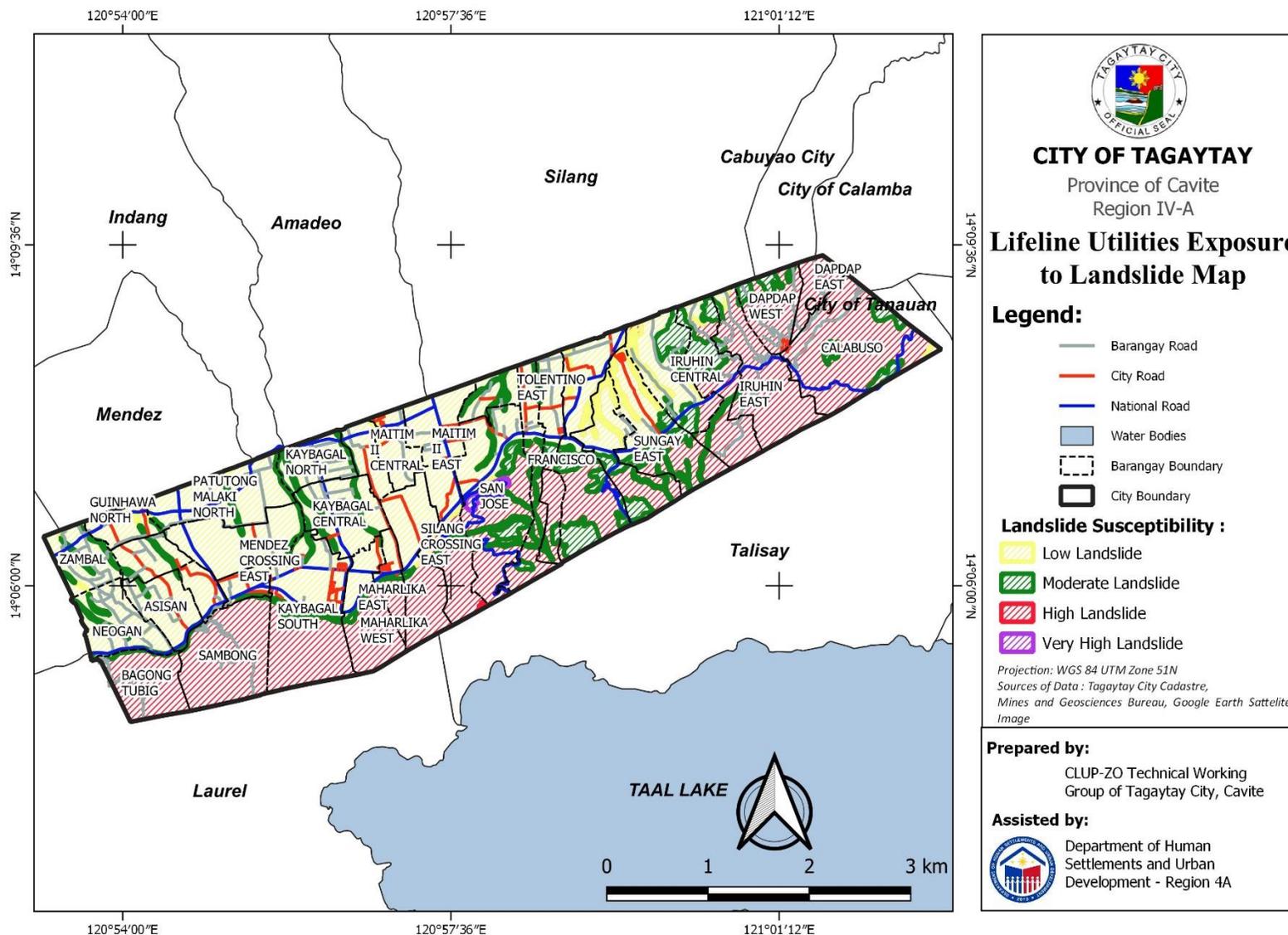
Table 69. Lifeline Utilities Exposure Database

Barangay	Classification	Landslide Susceptibility	Total Length (m)	Affected Length (m)	Percentage of Affected Length	Replacement/ Construction Cost	Affected Value	Surface Type	Existing Condition	Year Constructed	Employing Resilient Design	With Access/Area Coverage to Infrastructure Related Mitigation Measures	Capacity And Willingness to Retrofit	With Access to Insurance Coverage	Government Investments	With Government Regulations on Hazard Mitigation Zoning and Structural Design Standards	Risk Category
Asisan	Barangay Road	Low	2,979.82	2,924.31	98.14%	10,000	29,243,100	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	Barangay Road	Moderate	2,979.82	55.5	1.86%	10,000	555,000	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	National Road	Low	864.05	798.49	92.41%	10,000	7,984,900	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Moderate	864.05	65.56	7.59%	10,000	655,600	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Low
	City Road	Low	1,244.41	1,244.41	100.00%	10,000	12,444,100	Asphalt	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
Bagong Tubig	Barangay Road	Moderate	2,526.80	219.82	8.70%	10,000	2,198,200	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Very High
	Barangay Road	High	2,526.80	2,306.98	91.30%	10,000	23,069,800	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Moderate	6.22	6.22	100.00%	10,000	62,243	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Very High
Calabuso	Barangay Road	High	3,835.24	3,835.24	100.00%	10,000	38,352,380	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	High
	National Road	Moderate	3,847.79	206.38	5.36%	10,000	2,063,800	Asphalt	Good	2000 And Above	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	High	3,847.79	3,641.41	94.64%	10,000	36,414,100	Asphalt	Good	2000 And Above	Yes	Yes	Yes	No	Yes	Yes	Very High
	City Road	High	201.25	201.25	100.00%	10,000	2,012,500	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	High
Dapdap East	Barangay Road	High	1,210.63	1,210.63	100.00%	10,000	12,106,300	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Very High
	City Road	High	30.44	30.44	100.02%	10,000	304,400	Asphalt	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Very High
Dapdap West	Barangay Road	Moderate	4,574.58	400.23	8.75%	10,000	4,002,300	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	Barangay Road	High	4,574.58	4,174.35	91.25%	10,000	41,743,500	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	High
	City Road	High	558.95	558.95	100.00%	10,000	5,589,500	Asphalt	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Very High
Francisco	Barangay Road	Low	1,232.17	1,232.17	100.00%	10,000	12,321,700	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Low	4,633.47	2,951.38	63.70%	10,000	29,513,800	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Moderate	4,633.47	319.74	6.90%	10,000	3,197,400	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Low
	National Road	High	4,633.47	1,362.34	29.40%	10,000	13,623,400	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Low	1,674.47	1,674.47	100.00%	10,000	16,744,700	Concrete	Fair	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
Guinhawa North	Barangay Road	Low	1,386.72	1,310.41	94.50%	10,000	13,104,100	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	Barangay Road	Moderate	1,386.72	76.31	5.50%	10,000	763,100	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	National Road	Low	1,222.53	1,222.53	100.00%	10,000	12,225,300	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Low	1,513.47	1,513.47	100.00%	10,000	15,134,700	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
Guinhawa South	Barangay Road	Low	1,569.33	1,458.87	92.96%	10,000	14,588,700	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	Barangay Road	Moderate	1,569.33	110.46	7.04%	10,000	1,104,600	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	City Road	Low	1,163.33	1,163.33	100.00%	10,000	11,633,269	Asphalt	Good	1990-2001	Yes	Yes	Yes	No	Yes	Yes	Moderate
Iruhin Central	Barangay Road	Low	3,934.11	319.12	8.11%	10,000	3,191,200	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	Barangay Road	Moderate	3,934.11	385.23	9.79%	10,000	3,852,300	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	Barangay Road	High	3,934.11	3,229.76	82.10%	10,000	32,297,600	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	High	619.23	619.23	100.00%	10,000	6,192,300	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
Iruhin East	Barangay Road	Low	5,245.80	215.64	4.11%	10,000	2,156,400	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	Barangay Road	Moderate	5,245.80	293.1	5.59%	10,000	2,931,000	Dirt	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	Barangay Road	High	5,245.80	4,737.07	90.30%	10,000	47,370,700	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	High
	National Road	High	1,224.35	1,224.35	100.00%	10,000	12,243,500	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
Iruhin West	Barangay Road	Low	4,576.66	3,363.92	73.50%	10,000	33,639,200	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	Barangay Road	Moderate	4,576.66	582.44	12.73%	10,000	5,824,400	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	Barangay Road	High	4,576.66	630.3	13.77%	10,000	6,303,000	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	National Road	Low	992.01	293.06	29.54%	10,000	2,930,600	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Moderate	992.01	290.4	29.27%	10,000	2,904,000	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	High	992.01	408.55	41.18%	10,000	4,085,500	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	Barangay Road	Low	3,106.87	3,084.39	99.28%	10,000	30,843,900	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate

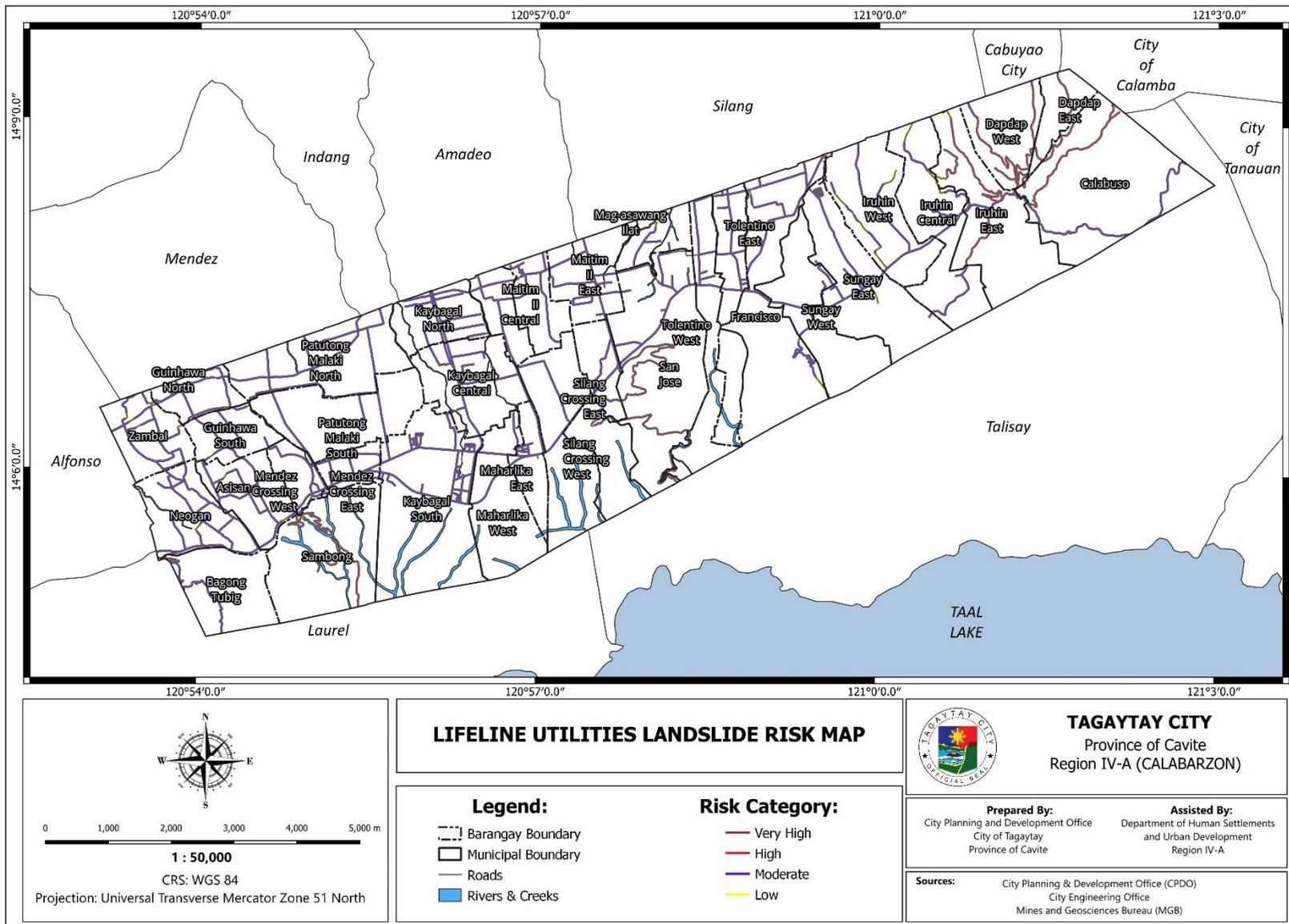
Barangay	Classification	Landslide Susceptibility	Total Length (m)	Affected Length (m)	Percentage of Affected Length	Replacement/ Construction Cost	Affected Value	Surface Type	Existing Condition	Year Constructed	Employing Resilient Design	With Access/Area Coverage to Infrastructure Related Mitigation Measures	Capacity And Willingness to Retrofit	With Access to Insurance Coverage	Government Investments	With Government Regulations on Hazard Mitigation Zoning and Structural Design Standards	Risk Category
Kaybagal Central	Barangay Road	Moderate	3,106.87	22.47	0.72%	10,000	224,700	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	National Road	Low	1,569.08	1,569.08	100.00%	10,000	15,690,800	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Low	862.47	786.35	91.17%	10,000	7,863,500	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Moderate	862.47	76.12	8.83%	10,000	761,200	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
Kaybagal North	Barangay Road	Low	4,081.16	4,048.25	99.19%	10,000	40,482,500	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	Barangay Road	Moderate	4,081.16	32.9	0.81%	10,000	329,000	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	National Road	Moderate	14.19	14.19	100.02%	10,000	141,900	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
Kaybagal South	Barangay Road	Low	1,273.36	1,273.36	100.00%	10,000	12,733,600	Asphalt	Poor	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Low	4,252.23	4,252.23	100.00%	10,000	42,522,300	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Low	4,821.50	4,821.50	100.00%	10,000	48,215,000	Asphalt	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
Mag-Asawang Ilat	Barangay Road	Low	964.47	907.95	94.14%	10,000	9,079,500	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	Barangay Road	Moderate	964.47	56.53	5.86%	10,000	565,268	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	City Road	Low	270.77	270.77	100.00%	10,000	2,707,724	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
Maharlika East	National Road	Low	924.05	924.05	100.00%	10,000	9,240,495	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Low	1,875.78	1,850.86	98.67%	10,000	18,508,642	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Moderate	1,875.78	24.92	1.33%	10,000	249,162	Gravel	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
Maharlika West	National Road	Low	1,416.25	1,416.25	100.00%	10,000	14,162,485	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Low	603.1	574.94	95.33%	10,000	5,749,376	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Moderate	603.1	28.16	4.67%	10,000	281,605	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
Maitim Ii Central	Barangay Road	Low	1,626.03	1,626.03	100.00%	10,000	16,260,306	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Low	567.58	567.58	100.00%	10,000	5,675,806	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Low	1,133.08	1,133.08	100.00%	10,000	11,330,765	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
Maitim Ii East	Barangay Road	Low	1,784.58	1,784.58	100.00%	10,000	17,845,818	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Low	1,988.26	1,988.26	100.00%	10,000	19,882,575	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Low	1,082.89	1,082.89	100.00%	10,000	10,828,937	Asphalt	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
Maitim Ii West	Barangay Road	Low	649.05	649.05	100.00%	10,000	6,490,506	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Low	750.89	729.79	97.19%	10,000	7,297,920	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Moderate	750.89	21.1	2.81%	10,000	210,957	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Low
	City Road	Low	1,334.58	1,334.58	100.00%	10,000	13,345,769	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
Mendez Crossing East	Barangay Road	Low	678.66	451.65	66.55%	10,000	4,516,506	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	Barangay Road	High	678.66	227.01	33.45%	10,000	2,270,060	Concrete	Fair	1990-2001	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Low	1,214.36	1,214.36	100.00%	10,000	12,143,629	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Low	1,889.87	1,889.87	100.00%	10,000	18,898,665	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
Mendez Crossing West	Barangay Road	Low	635.44	227.2	35.75%	10,000	2,271,973	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	Barangay Road	Moderate	635.44	62.57	9.85%	10,000	625,721	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	Barangay Road	High	635.44	345.67	54.40%	10,000	3,456,661	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Low	1,293.64	1,293.64	100.00%	10,000	12,936,414	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Low	1,397.24	1,397.24	100.00%	10,000	13,972,360	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
Neogan	Barangay Road	Low	6,493.62	6,123.19	94.30%	10,000	61,231,926	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	Barangay Road	Moderate	6,493.62	370.43	5.70%	10,000	3,704,277	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	National Road	Low	1,699.59	1,030.51	60.63%	10,000	10,305,999	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Moderate	1,699.59	626.69	36.87%	10,000	6,266,854	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	High	1,699.59	42.4	2.49%	10,000	424,000	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Low
Patutong Malaki North	Barangay Road	Low	5,466.25	5,415.27	99.07%	10,000	54,152,700	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	Barangay Road	Moderate	5,466.25	50.98	0.93%	10,000	509,800	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	National Road	Low	3,352.92	3,288.96	98.09%	10,000	32,889,600	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Moderate	3,352.92	63.96	1.91%	10,000	639,600	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Low

Barangay	Classification	Landslide Susceptibility	Total Length (m)	Affected Length (m)	Percentage of Affected Length	Replacement/ Construction Cost	Affected Value	Surface Type	Existing Condition	Year Constructed	Employing Resilient Design	With Access/Area Coverage to Infrastructure Related Mitigation Measures	Capacity And Willingness to Retrofit	With Access to Insurance Coverage	Government Investments	With Government Regulations on Hazard Mitigation Zoning and Structural Design Standards	Risk Category
	City Road	Low	13.17	13.17	100.03%	10,000	131,700	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
Patutong Malaki South	Barangay Road	Low	1,007.33	968.73	96.17%	10,000	9,687,300	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	Barangay Road	Moderate	1,007.33	38.6	3.83%	10,000	386,000	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	National Road	Low	1,097.91	1,097.91	100.00%	10,000	10,979,100	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Low	816.89	816.89	100.00%	10,000	8,168,900	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
Sambong	Barangay Road	High	4,386.77	4,386.77	100.00%	10,000	43,867,700	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Very High
San Jose	Barangay Road	Low	1,240.76	1,240.76	100.00%	10,000	12,407,600	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Low	7,971.94	1,919.58	24.08%	10,000	19,195,800	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Moderate	7,971.94	31.36	0.39%	10,000	313,600	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	High	7,971.94	4,155.55	52.13%	10,000	41,555,500	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	High
	National Road	Very High	7,971.94	1,865.44	23.40%	10,000	18,654,400	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	High
	City Road	Low	1,806.48	1,727.74	95.64%	10,000	17,277,400	Asphalt	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Moderate	1,806.48	78.73	4.36%	10,000	787,300	Asphalt	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
Silang Crossing East	National Road	Low	2,855.60	1,566.33	54.85%	10,000	15,663,300	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Moderate	2,855.60	143.77	5.03%	10,000	1,437,700	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Low
	National Road	High	2,855.60	1,145.50	40.11%	10,000	11,455,000	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	High	111.66	111.66	100.00%	10,000	1,116,600	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
Silang Crossing West	National Road	Low	1,195.85	1,195.85	100.00%	10,000	15,043,400	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Low	1,504.34	1,504.34	100.00%	10,000	10,301,325	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
Sungay East	Barangay Road	Low	1,108.51	1,030.13	92.93%	10,000	10,301,325	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	Barangay Road	High	1,108.51	78.37	7.07%	10,000	783,745	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Low	1,406.80	1,406.80	100.00%	10,000	14,067,956	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Low	3,125.31	2,659.92	85.11%	10,000	26,599,187	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	City Road	Moderate	3,125.31	238.86	7.64%	10,000	2,388,569	Asphalt	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	City Road	High	3,125.31	226.53	7.25%	10,000	2,265,320	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
Sungay West	Barangay Road	Low	832.94	832.94	100.00%	10,000	8,329,441	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Low	834.09	834.09	100.00%	10,000	8,340,950	Asphalt	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Moderate	380.63	380.63	100.00%	10,000	3,806,277	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	High	77.5	77.5	100.00%	10,000	774,952	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	High
Tolentino East	Barangay Road	Low	2,421.63	2,404.75	99.30%	10,000	24,047,479	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	Barangay Road	Moderate	2,421.63	16.88	0.70%	10,000	168,823	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	City Road	Low	727.24	727.24	100.00%	10,000	6,112,364	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Low	612.2	612.2	100.00%	10,000	577,181	Concrete	Fair	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
Tolentino West	Barangay Road	Low	668.95	611.24	91.37%	10,000	6,112,364	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	Barangay Road	Moderate	668.95	57.72	8.63%	10,000	577,181	Concrete	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	City Road	Low	#####	1,635.37	100.00%	10,000	16,353,700	Asphalt	Fair	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Low	#####	402.35	30.62%	10,000	4,023,500	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Moderate	#####	80.18	6.10%	10,000	801,800	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Low
	National Road	High	#####	402.35	30.62%	10,000	4,023,500	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
Zambal	Barangay Road	Low	5,444.20	5,179.84	95.14%	10,000	51,798,377	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Moderate
	Barangay Road	Moderate	5,444.20	264.36	4.86%	10,000	2,643,634	Concrete	Good	1990-2000	Yes	Yes	Yes	No	Yes	Yes	Low
	National Road	Low	850.23	754.71	88.76%	10,000	7,547,071	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Moderate
	National Road	Moderate	850.23	95.53	11.24%	10,000	955,258	Concrete	Good	Before 1980	Yes	Yes	Yes	No	Yes	Yes	Low

Map 31. Lifeline Utilities Exposure to Landslide Map



Map 32. Lifeline Utilities Landslide Risk Map



Chapter 6. LOCAL INSTITUTIONAL CAPABILITY

6.1 Local Government Structure

6.1.1 Political Subdivision

Thirty-four barangays comprise the city, of which 25 are urban and the rest are rural. Table 1 indicates the names of barangays and their respective land area

6.1.2 Governance

The present organization of the Local Government of Tagaytay is a divisional structure with two distinct branches: the Executive and the Legislative Branches.

Executive Branch of Local Governance

The Executive Branch is composed of eighteen (18) departments and eight (8) offices, which are divided into services, divisions and sections. The City Mayor heads the organization, from whom all the executive authority and responsibility originates. The City Administrator is positioned next in the hierarchy in so far as it exercises delegated authority from the City Mayor. He supervises the operations of line and staff departments, offices and units.

Legislative Branch of Local Governance

The Vice Mayor presided over the Sangguniang Panglungsod (SP), which is the policy-making body of the city. The SP is composed of the Vice Mayor, the elected regular council members, the president of the city chapter of the Liga ng mga Barangay and the vice president of the Pederasyon ng mga Sangguniang Kabataan. The Office of the City Secretary serves as the Secretary to the Council. It also provides legislative, administrative and secretarial support services to the said body.

As the main policy-making body of the local government, the SP, among others, enacts ordinances, approves resolutions and appropriates fund for the general welfare of the city residents. It likewise regulates activities related to the use of land, street, sidewalks, bridges, parks and other public places and approves of the construction of the same.

A unique feature of the Sangguniang Panglungsod in Tagaytay City is that the councilors have their designated political jurisdiction known as the Councilor's Area of Responsibility (CAR). This serves as an extension of the Mayor's Office. It aims to ensure that public services are delivered efficiently, effectively and equitably. In this sense, the lead legislators also perform a policy-implementation function. In addition, the councillors act either as chairpersons, vice chairperson and / or members of regular committees of the local development council.

Tables below show a list of the City Officials of Tagaytay City, and the roster of the 34 Barangay Captains respectively.

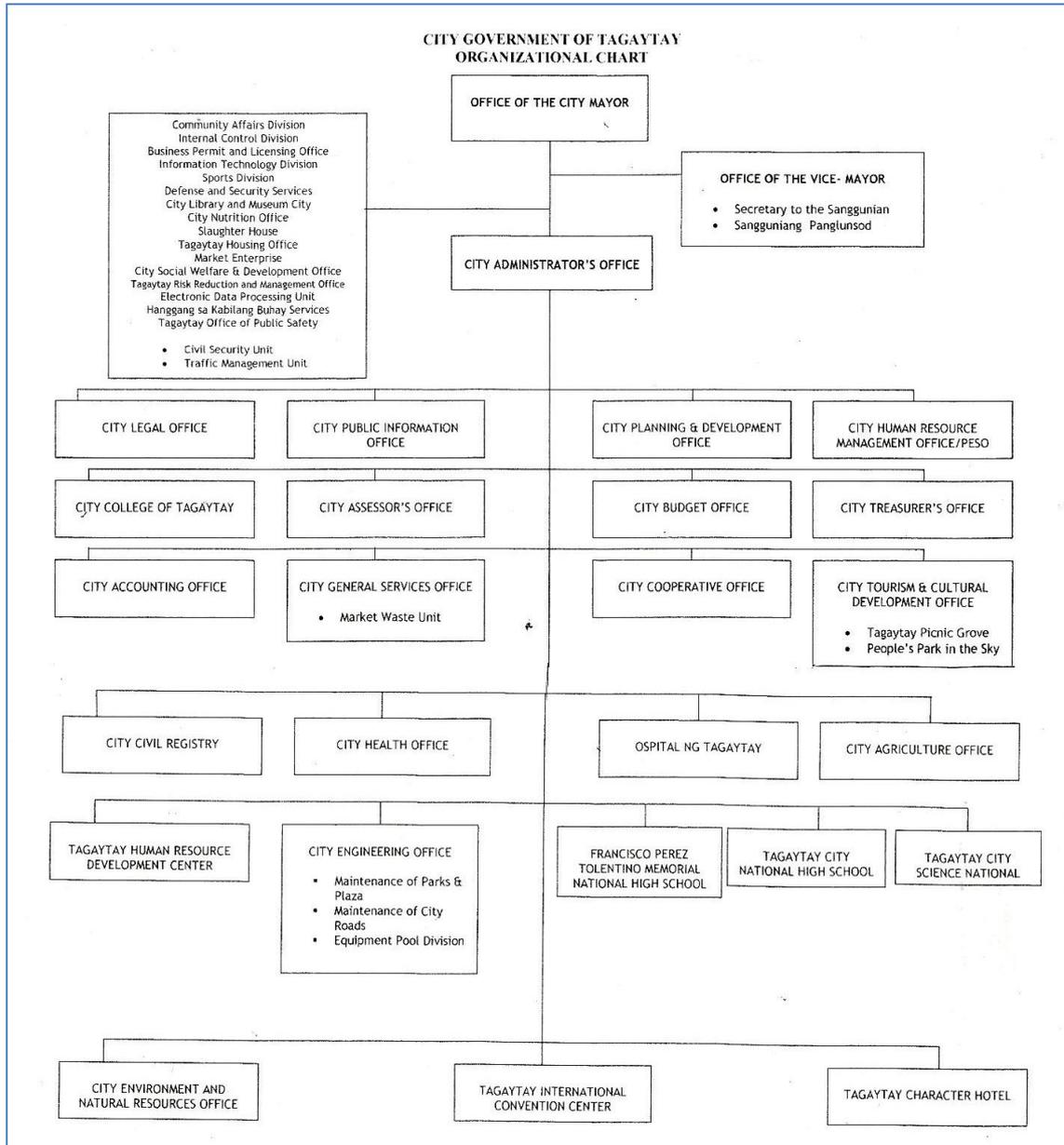


Figure 17. City Government of Tagaytay's Organizational Structure

Table 70. City Officials of Tagaytay

<i>City Official</i>	<i>Position</i>
Hon. Agnes D. Tolentino, DMD	City Mayor
Hon. Reymond A. Ambion	Vice Mayor
Hon. Athena Bryana D. Tolentino	Councilor
Hon. Michael C. Tolentino	Councilor
Hon. Joel Tibayan	Councilor
Hon. Lorna S. Toledo	Councilor
Hon. Yolanda A. Marasigan	Councilor
Hon. Marcelo Austria	Councilor
Hon. Bianca Camille Pello	Councilor
Hon. Reynoso Espiritu	Councilor
Hon. Claro Batino	Councilor
Hon. Annabelle Solis	Councilor
Hon. Eric Causaren	ABC President
Hon. Maria Theresa Llorente	SKF President

Source: City Planning and Development Office 2020

Table 71. List of Barangay Captains

	BARANGAY	BARANGAY CAPTAIN
1.	Asisan	Virgilio Ferma
2.	Bagong Tubig	Florencio D. Sangalang
3.	Calabuso	Monico Natividad
4.	Dapdap East	Juanito Ramos
5.	Dapdap West	Marissa Cuadro
6.	Francisco	Ariano Ferma
7.	Guinhawa North	Benedicto Dimapilis
8.	Guinhawa South	Julian R. Aquino, Jr.
9.	Iruhin Central	Jennifer R. Manguinao
10.	Iruhin East	Joel Labarda
11.	Iruhin West	Benedicto Rodriguez
12.	Kaybagal Central	Eulogio Malabanan
13.	Kaybagal North	Victor Bergado
14.	Kaybagal South	Fatima Guadaña
15.	Mag-asawang Ilat	Eric Causaren
16.	Maharlika East	Petronio Ambat
17.	Maharlika West	Pablo Luna
18.	Maitim II Central	Nathaniel Burgos
19.	Maitim II East	Levi Baybay
20.	Maitim II West	Obeth Ambat
21.	Mendez Crossing East	Lamberto de Villa
22.	Mendez Crossing West	Ester Marasigan
23.	Neogan	Joel Bathan
24.	Patutong Malaki North	Beatriz Alegre
25.	Patutong Malaki South	Mario de Guia
26.	Sambong	Henrich Enriquez
27.	San Jose	Jojit Desingano
28.	Silang Crossing East	Bernardo Cabasi
29.	Silang Crossing West	Eugenio Diokno
30.	Sungay East	Gener Cabrera
31.	Sungay West	Joel Villanueva
32.	Tolentino East	Wilfredo Maranan

	BARANGAY	BARANGAY CAPTAIN
33.	Tolentino West	Isaias Creus Jr.
34.	Zambal	Melito Perey

6.2 Local Fiscal Management

Income

For the year 2021, the City Government collected a total income of ONE BILLION, TWO HUNDRED EIGHTY-SEVEN MILLION, TWO HUNDRED TWENTY-FIVE THOUSAND, SIX HUNDRED FIFTY-NINE PESOS and 07/100 (Php1,287,225,659.07) with an increase of 1.97% from the city's income of 2020.

Out of the city's income in 2021, *General Fund* has the biggest share having a total collection of ONE BILLION, FIFTY-NINE MILLION, ONE HUNDRED THIRTEEN THOUSAND, ONE HUNDRED EIGHTY-ONE PESOS and 33/100 (Php1,059,113,181.33), covering the 82.28% of the city's total revenue. It has an decrease of 0.02% from 2020 income of ONE BILLION, FIFTY-NINE MILLION, THREE HUNDRED EIGHT THOUSAND, SEVEN HUNDRED FIFTY EIGHT PESOS and 87/100 (Php1,059,308,758.87).

Special Education Fund has a total collection of TWO HUNDRED TWENTY EIGHT MILLION, ONE HUNDRED TWELVE THOUSAND, FOUR HUNDRED SEVENTY-SEVEN PESOS and 74/100 (Php228,112,477.74) contributing 17.72% of the city's total income in 2021. It has an increase of 12.37% from 2020 collection of TWO HUNDRED TWO MILLION, NINE HUNDRED NINETY-SIX THOUSAND, EIGHT HUNDRED TWENTY PESOS and 50/100 (Php202,996,820.50).

The bulk of the city's General Fund income came from: *Real Property Tax* collected a total amount of TWO HUNDRED FIFTY-TWO MILLION, EIGHT HUNDRED FORTY-NINE THOUSAND, FIVE HUNDRED EIGHTY-EIGHT PESOS and 95/100 (Php252,849,588.95) contributing 23.87%. Share from the *National Tax Collection (IRA)* is FOUR HUNDRED SEVENTY-EIGHT MILLION, SIX HUNDRED SEVENTY-SEVEN THOUSAND, FOUR HUNDRED TWENTY PESOS (Php478,677,420.00) contributing 45.20% of the total General Fund. *Tax on Business* collected the amount of EIGHTY-EIGHT MILLION, EIGHT HUNDRED THIRTEEN THOUSAND, EIGHT HUNDRED SEVENTEEN PESOS and 99/100 (Php88,813,817.99) contributing 8.39%. Income collected from *Other Taxes* has a total amount of SEVENTY-THREE MILLION, NINE HUNDRED THIRTY-FOUR THOUSAND, FORTY-NINE PESOS and 81/100 (Php73,934,049.81) contributing 6.98%. *Regulatory Fees (Permits and Licenses)* collected a total amount of FIFTY MILLION, FOUR HUNDRED THIRTY-NINE THOUSAND, TWO HUNDRED SIXTY-SEVEN PESOS and 32/100 (Php50,439,267.32) contributing 4.76%. *Service Income* collected a total amount of TWELVE MILLION, FIVE HUNDRED FOURTEEN THOUSAND, NINE HUNDRED FORTY-FOUR PESOS and 13/100 (Php12,514,944.13) contributing 1.18%. *Other Income* (coming from the *Interest Income*) collected a total amount of ONE MILLION, ONE HUNDRED TWO THOUSAND, TWO HUNDRED TWENTY-THREE PESOS and 30/100 (Php1,102,223.30) contributing 0.10%. Income collected from *Economic Enterprises* has a total amount of NINETY-EIGHT MILLION, TWO HUNDRED FIFTY-TWO THOUSAND, SEVEN HUNDRED SEVENTY-ONE PESOS and 71/100 (Php98,252,771.71) contributing 9.28% of the total General Fund.

Expenditure

For the year 2021, the City Government of Tagaytay had a total expenditure of TWO HUNDRED EIGHTY-FOUR MILLION, FOUR HUNDRED EIGHT THOUSAND, NINE HUNDRED FORTY-SEVEN PESOS and 85/100 (Php284,408,947.85) which shows a decrease of 82.06% from the city's expenditure in 2020 of ONE BILLION, FIVE HUNDRED EIGHTY-FIVE MILLION, THREE HUNDRED THIRTY THOUSAND, SEVENTY-NINE PESOS and 72/100 (Php1,585,330,079.72).

Out of the total expenditures in 2021, TWO HUNDRED TWENTY-ONE MILLION, SEVEN HUNDRED NINETEEN THOUSAND, THREE HUNDRED FIVE PESOS and 81/100 (Php221,719,305.81) or 77.96% came from the General Fund. This showed a decrease of 83.84% from 2020 General Fund expenses of ONE BILLION, THREE HUNDRED SEVENTY-TWO MILLION, THREE HUNDRED SEVENTY THOUSAND, THREE HUNDRED EIGHTY-TWO PESOS and 98/100 (Php1,372,370,382.98).

Special Education Fund (SEF) expended a total amount of SIXTY-TWO MILLION, SIX HUNDRED EIGHTY-NINE THOUSAND, SIX HUNDRED FORTY-TWO PESOS and 04/100 (Php62,689,642.04) or 22.04% of the city's total expenditures for 2021, decreased 70.56% from SEF expenditures of 2020 with TWO HUNDRED TWELVE MILLION, NINE HUNDRED FIFTY-NINE THOUSAND, SIX HUNDRED NINETY-SIX PESOS and 74/100 (Php212,959,696.74).

6.3 Development Legislation

To attest the efficiency and effectiveness of the legislative body, here are some of the measures undertaken and approved:

Table 72. Ordinances on Infrastructure Sector

Mar. 23, 2021 2021-423	An ordinance authorizing the Local Chief Executive to negotiate, enter and sign into an agreement with any individual, natural or juridical for the acquisition of parcels of land intended for the development projects of the City of Tagaytay
Feb. 03, 2020 2020-371	An ordinance granting Development Permit to CPT Central Corporation for the proposed Mahogany Terraces Tagaytay Subdivision Project located at Barangay Patutong Malaki South, Tagaytay City, covering total land area of 2,669 sq. meters more or less
May 04, 2020 2020-387	An ordinance authorizing the Local Chief Executive, Hon. Agnes D. Tolentino, DMD or her duly authorized representative to negotiate enter and sign into an agreement with any individual, natural or juridical for the acquisition of parcels of land within Barangays Iruhin Central, Iruhin East, and Iruhin West, Tagaytay City intended for water improvement facilities.
April 15, 2019 310-S-2019	An ordinance authorizing the Local Chief Executive, Hon. Agnes D. Tolentino, to negotiate for the acquisition, through purchase donation, or expropriation the Fifty-Four Square meters (54sq.m.) property of Mr. Saldogram Rodriguez encroached by the City Government during the construction of Kaybagal Gym
March 18, 2019 305-S-2019	A city Code pursuing a Public Private Partnership for the People (P4) Approach towards development, providing for the procedure for selecting the private sector proponent, adopting a contract management framework, and providing appropriations and for other purposes.

May 14, 2019 315-S-2019	An ordinance authorizing the Local Chief Executive, Hon. Agnes D. Tolentino, DMD to sign the Deed of Donation with Dr. Eliseo Cortez, owner of a property with an area of Two Hundred Eighty-Five square meters (285sq.m.) to serve as road right-of-way located at Barangay Maitim II-Central, Tagaytay City
February 05, 2018 250-S-2018	An Ordinance authorizing the local Chief Executive, Hon. Agnes D. Tolentino to negotiate, expropriate and enter into and sign a Deed of Absolute sale for the acquisition of the 353.30sq.m. property located at Silang Crossing East, this City for the construction of Lay-Bay for buses and jeepneys
July 02, 2018 271-S-2018	An ordinance authorizing the Local Chief Executive, Hon. Agnes D. Tolentino, DMD, to negotiate and enter into a Deed of Absolute Sale with Mr. Prudencio Mendiola for the acquisition of the 110 square meters, portion of a real property located at Brgy., Maitim II-East, Tagaytya City for the expansion of barangay road
August 20, 2018 284-S-2018	An ordinance authorizing the Local Chief Executive, Hon. Agnes D. Tolentino, DMD, to negotiate for the acquisition thru purchase or donation of the lots affected by the road widening of By-Pass road and other existing alternate roads, including rehabilitation of private and government owned structures/improvements and appropriating funds thereof

Table Source: Sangguniang Panlungsod-Tagaytay City

Table 73. Ordinances on Land Development

Jan. 18, 2021 2021-421	An ordinance revoking the Development Permit granted to John McArthur Realty Dev. Corp. for the proposed MC Arthur Residence Heights I Subdivision Project located at Barangay Maitim II-East, Tagaytay City, covering total land area of 21,568 square meters more or less
July 26, 2021 2021-428	An ordinance amending Provisions of City's Zoning Ordinance and Land Use Map specifically Section 7-Zone/Area Boundaries of Tourism Strip, Primary Urban Core and Secondary Urban Core, along areas of the new Tagaytay-Alfonso By-Pass road
Feb. 03, 2020 2020-371	An ordinance granting Development Permit to CPT Central Corporation for the proposed Mahogany Terraces Tagaytay Subdivision Project located at Barangay Patutong Malaki South, Tagaytay City, covering total land area of 2,669 sq. meters more or less
May 14, 2019 315-S-2019	An ordinance authorizing the Local Chief Executive, Hon. Agnes D. Tolentino, DMD to sign the Deed of Donation with Dr. Eliseo Cortez, owner of a property with an area of Two Hundred Eighty-Five square meters (285sq.m.) to serve as road right-of-way located at Barangay Maitim II-Central, Tagaytay City
May 20, 2019 260-S-2019	An ordinance authorizing the Local Chief Executive Hon. Agnes D. Tolentino, DMD to sign the Deed of Donation with Xceed Realty & Dev't. for the donation of road lots of Merlinda Residences III Subd. located at Bgy. Zambal Tagaytay City
May 02, 2017 No. 213	An ordinance granting development permit to Fil-Estate Properties, Inc. for the proposed Windsor Heights Phase I-A subdivision project located at

	Barangay Francisco, Tagaytay City, covering a total land area of 9,442 sq.m. more or less
May 29, 2017 No. 214	An ordinance granting a Development Permit to Ridgelake Realty Inc. for the proposed Villa Moderna de Tagaytay Subdivision Project located at Bgy. Patutong Malaki North, Tagaytay City, covering a total land area of 32,732 sq.m. more or less

Source: Sangguniang Panlungsod-Tagaytay City

LGU-CSO-Private Sector Linkages

Under the present term 2019-2022, a total of 29 organizations were accredited by the Sangguniang Panlungsod as of December 31, 2021. NGOs, CSOs, and POs play multiple roles. They are an important source of information for both citizens and government. They are in charge in monitoring government policies and actions and hold government accountable, playing a crucial role in reducing poverty, upholding democratic development and the fulfilment of human rights. They can also help government in developing better strategies for resolution of issues as they engage in advocacy and offer alternative policies for government, the private sector, and other institutions.

Table 74. List of Non-Government Organizations Accredited by the Sangguniang Panlungsod

Daehan Batang Tagaytay Taekwondo
Tagaytay Kalikasan Jaycees
Kababaihan Kabalikat sa Kaunlaran ng Tagaytay
Tagaytay Masonic Lodge 165
Federation of parents Teachers Association
Tagaytay City Cooperative Development Council
Association of Barangay Secretaries & Barangay Treasurers
Barangay Health Workers Federation
Association of Barangay Nutrition Scholars
Tagaytay Federation of Day Care Workers
Tagaytay Community Character First Coalition (TCCFC) Inc.
Tagaytay City Federation of Persons with Disability, Inc.
Tagaytay City Federation of Senior Citizens Association
Tagaytay Children and Youth Organization (TAYO)
VFP Sons & Daughters Association, Inc.
Tagaytay City Veterans Post
Batang Tagaytay Transport Cooperative
Tagaytay Tricycle Operators & Drivers Assoc. Federation
Tagaytay Religious Association
The Association of Retired Government Employees of Tagaytay (TARGET)
Sala'am Force Multiplier Tagaytay City Market Muslim Traders Assoc.
Palace in the Sky Multi-Purpose Coop.
Lesbian, Gay, Bisexual, Transgender, Queer (LGBTQ) of Tagaytay
Tagaytay Adventist Community Services
Reform and Modern Guardians, Inc.
Tagaytay City Teacher's Federation
Tagaytay City Security Officers and Managers Association
United Pentecostal Church (Phils.), Inc.

Source: Based from City Resolution Nos. 290, s. 2019; City Res. No. 323 s. 2019, City Res. No. 323 s. 2019

6.4 Awards and Recognitions

The City is a "National Honor Awardee for Nutrition" (highest award given to a Local Government Unit for outstanding implementation of Nutrition Program) for being a consistent Green Banner and Crown Awardee on Nutrition Program.

The City had been recognized by the Provincial Government of Cavite as Cleanest and Greenest City in the Province.

In 1997, the City is one (1) of the top 20 outstanding Local Government Units awarded by the Gawad Galing Pook for the innovative program “Tagaytay Financial Engineering Program”.

In 1998, the City is one (1) of the top 10 outstanding Local Government Units awarded by the Gawad Galing Pook for the innovative program “People’s Park in the Sky”.

In the year 2000 and 2002, the City was cited by the Asian Institute of Management (AIM) as one of the Most Competitive Cities in the country.

In 2006, the City was also cited by the World Health Organizations (WHO) Western Pacific Region for the outstanding proposal on Housing and Shelter. A Plaque of Recognition and a Cash Award (\$10,000) was given to the City in Sozhu, Shanghai, China during the 2nd General Assembly of the Alliance of Healthy Cities.

The Sanggunian Panglunsod of Tagaytay City is the first recipient of the National Legislative Award in 2007.

In 2019, Tagaytay City became Hall of Fame Awardee in Child Friendly Municipalities and Cities-Component City Category. In year 2010, cited as Outstanding in Child Health Care Award in 2010 in the Presidential Award for Child Friendly Municipalities and Cities.

Pabasa sa Nutritsyon Hall of Fame Awards was received by Tagaytay City in 2016

Tagaytay City is a recipient of a technical assistance from the World Bank for the crafting of the “City Development Strategies (CDS) 2”. CDS now serves as the blueprint and basic reference of the City in the implementation of various development programs, projects and activities leading towards the realization of the City’s vision, goals and objectives.