

Protective Services

Facilities and Equipment

The police headquarters of General Trias is located in Barangay Bagumbayan. The station has 89 personnel equipped with 4 vehicles. There is also a sub-station located in 5 different barangays equipped with a total of 6 vehicles. Table 1 and Public Safety and Protective Services Map show other facilities under police protection services.

From the 2018 projected population and the total number of police personnel that sums up to 120 translates to a police-to-population ratio of 1:3,054. Thus, the current police-to-population ratio falls short to the minimum standard ratio of 1:1,000. This implies that the City of General Trias require additional personnel and facilities to cater the protective service needs of the residents.

Fire protection services, on the other hand, is being provided by the General Trias Fire Department located in Barangay Sampalucan whereas the fire protection headquarters is located in Barangay Bagumbayan and the sub-station at Barangay Manggahan. Services are being carried out with the use of a three (3) fire trucks, two (2) units of transceiver radio, one (1) VHF radio and one (1) UHF Radio, and 1,082 fire hydrants installed at strategic areas by barangay (see Table 1).

Using the 2018 projected population, the current ratio of fire personnel-to-population is at 1:16,658 which does not meet the minimum standard of 1:2,000. These data entail the need for adequate fire services in City of General Trias.

Table 1. Fire Protection Manpower, Facilities, and Equipment, 2018

Description	Actual Inventory/Total
Ratio of fire service men per person	1:16,658
Total number of firemen	5 Female and 17 Male BFP Personnel
Existing no. of fire facilities, communication equipment, etc.	3 firetrucks, 2 Units trans receiver radio, 1 VHF, 1 UHF
Number and location of existing fire department/s	1 in Barangay Sampalucan
Fire incidents for the past three (3) years	141

Note: The population data used in the computation of fire personnel-to-population ratio was based on the 2018 projected population.

Source: Bureau of Fire – City of General Trias

Under Section 13-C. of RA 9514, also known as the "Fire Code of the Philippines of 2008", it is stated that: *"The BFP shall determine the optimal number of equipment, including, but not limited to, fire trucks and fire hydrants, required by every local government unit for the proper delivery of fire protection services in its jurisdiction."*

The information provided for the number of fire hydrants in the city in 2018 is based on the approved subdivision waterline layout plan that totaled to a number of 1,082 fire hydrants. However, in 2020, an actual survey was conducted to verify and geotagged the existing number on site of the hydrants as listed and mapped in Table 2 and Fire Hydrants Map, respectively. It summed up to a total of 698 fire hydrants in the site, where 611 are fire hydrants and 87 are stand pipe. In Población, 3 out of 10 barangays have fire hydrants in the area located at Bagumbayan (2), San Gabriel (1), and Vibora (1) at a total of four.

Table 2. Number of Fire Hydrants, 2020

Barangay	Fire Hydrant	Stand Pipe	Total	Barangay	Fire Hydrant	Stand Pipe	Total
1896				Pasong Camachile 1	8	1	9
Alingaro	4	1	5	Pasong Camachile 2	34		34
Arnaldo				Pasong Kawayan 1	2	1	3
Bacao 1	64		64	Pasong Kawayan 2	95	46	141
Bacao 2	76		76	Pinagtipunan	1		1
Bagumbayan	2		2	Prinza			
Biclatan	66	1	67	Sampalucan			
Buenavista 1	27		27	San Francisco	46	13	59
Buenavista 2	19		19	San Gabriel	1		1
Buenavista 3	14		14	San Juan 1	1		1
Corregidor				San Juan 2	2		2
Dulong Bayan				Santiago	48	9	57
Gov. Ferrer				Sta. Clara	2		2
Javalera	31		31	Tapia	13		13
Manggahan	10		10	Tejero	5		5
Navarro	16	15	31	Vibora	1		1
Panungyanan	23		23	Grand Total	611	87	698

Source: Actual Survey, Office of the City Planning and Development Coordinator

Moreover, the susceptibility to hazard of each protective services facility is indicated in Table 3, where all are high susceptible to ground shaking. Area that is low susceptible to landslide is the police sub-station at Barangay Pasong Kawayan II. Also, low susceptible to flood and liquefaction are areas in Barangay Bagumbayan where police and fire protective facilities are located, whereas Barangay Bacao II is low susceptible to flood and moderately susceptible to liquefaction.

Barangay Security Force and Volunteers by Type of Service

All barangays in the city employ barangay-level police called *tanod* and volunteers who perform specific tasks in ensuring peace and order. The number of servicing barangay tanod and equipment is summarized in Table 4.

The tasks of Barangay Tanod's generally involve regular roving within the barangay; assisting day care students; coordination with and assisting barangay officials in the prevention of crimes and in promotion of public safety; reporting to concerned barangay officials of any crime incidence, fire incidence, public disturbance and other untoward incidents; assisting police in some judicial activities; detecting and monitoring of possible fire hazards and suspicious persons or activities; and assisting in control of road traffic.

Table 3. Inventory of Protective Services by Facilities and Equipment, 2018

Types of Services	Barangay	Area (sq.m)	Physical Condition of Facility	No. of Personnel	Personnel to Population Ratio	Vehicles		Contact No.	Hazard Susceptibility (H/M/L)			
						Number	Types		FI	GS	Ln	Lq
Police					1:3,054							
Headquarters	Bagumbayan	342.80	Fair	89		4	patrol car	(0919) 066 4281 / 437-7306	L	H		L
Sub-station	Manggahan	176.00	Fair	8		1	patrol car	(0919) 066 4283		H		
	San Francisco	100.00	Fair	7		1		(0919) 066 4285		H		
	Pasong Kawayan II	84.00	Fair	4		1		(0919) 066 4272		H	L	
	Pasong Camachile II	96.00	Fair	4		1		(0919) 066 4284		H		
	Bacao II	140.00	Fair	8		2		(0919) 066 4282	L	H		M
Outpost	San Francisco (w/ shed)	12.00	Fair			0				H		
	San Francisco (w/out shed)	6.00	Fair			0				H		
Traffic	Bagumbayan	80.00	Fair			0		(046) 509-5068	L	H		L
Fire Protection					1:9,905							
Headquarters	Bagumbayan	164.10	Fair	26		2	fire truck	(0919) 066 4275	L	H		L
Sub-station	Manggahan	240.00	Fair	11		1	fire truck	(0919) 066 4274		H		
Other Protective Facilities												
Jail Management (Lock up only)		271.90	Fair		1:19,288	-----	-----					
City Jail (Main)	Navarro	6,400.0	Fair	19		-----	-----	(0919) 774 0365		H		

Notes: The population data used in the computation of police-to-population ratio was based on the 2018 projected population; Hazard Susceptibility – High (H), Moderate (M), Low (L); Type of hazard – Flood (FI), Ground Shaking (GS), Landslide (Ln), Liquefaction (Lq)

Source: Philippine National Police – City of General Trias

Table 4. Summary of Number of Barangay Tanod by Servicing & Equipment, 2018

Barangay	No. of Volunteers/ Staff Servicing	No. of Servicing Facility/ Equipment/ Vehicle	Condition of Servicing Facility/ Equipment/ Vehicle
1896 th	4 – 8	6 equipment, 3 vehicles	Fair to Good
Alingaro	2 – 6	3 equipment, 2 vehicles	Good
Arnaldo	4 – 8	8 equipment, 3 vehicles	Fair to Good
Bacao I	4 – 8	1 equipment, 2 vehicles	Good
Bacao II	3 – 5	9 equipment, 3 vehicles	Good
Bagumbayan	11 – 25	7 equipment, 1 vehicle, 1 facility	Fair to Good
Biclatan	2 – 6	60 equipment, 6 vehicles	Good
Buenavista I	2 – 25	28 equipment, 2 vehicles, 3 facilities	Good
Buenavista II	2 – 10	4 equipment, 1 vehicle	Good
Buenavista III	1 – 5	2 equipment, 1 vehicle	Good
Corregidor	2 – 10	7 equipment, 3 vehicles	Poor to Good
Dulong Bayan	7 – 22	7 equipment, 3 vehicles	Fair to Good
Gov. Ferrer	3 – 7	9 equipment, 2 vehicles	Bad to Good
Javalera	4 – 6	22 equipment, 4 vehicles	Poor to Good
Manggahan	1 – 7	1 equipment, 2 vehicles	Good
Navarro	1 – 7	6 equipment, 2 vehicles	Good
Panungyanan	1 – 3	1 equipment, 1 vehicle	Good
Pasong Camachile I	25	10 equipment, 3 vehicles	Fair to Good
Pasong Camachile II	3 – 7	1 equipment, 1 vehicle	Fair to Good
Pasong Kawayan I	2 – 15	16 equipment, 4 vehicles, 4 facilities	Good
Pasong Kawayan II	6 – 90	141 equipment, 4 vehicles	Good
Pinagtipunan	4 – 6	4 equipment, 1 vehicle	Good
Prinza	3 – 10	8 equipment, 1 vehicle	Fair to Good
Sampalucan	2 – 4	8 equipment, 2 vehicles	Fair to Good
Santiago	2 – 8	2 vehicles	Fair to Good
San Francisco	2 – 140	4 facilities, various equipment and vehicles	Good
San Juan I	1 – 6	2 vehicles, 8 equipment	Fair to Good
San Juan II	2 – 15	16 equipment, 3 vehicles	Good
San Gabriel	4 – 14	7 equipment, 1 vehicle	Fair to Good
Sta. Clara	1 – 23	7 equipment, 1 vehicle	Fair to Good
Tapia	2 – 10	5 equipment, 2 vehicles	Fair to Good
Tejero	1 – 7	1 vehicle	Fair to Good
Vibora	2 – 10	7 equipment, 1 vehicle	Fair to Good

Source: Actual Survey, Office of the City Planning and Development Coordinator

Fire Incidence

From 2016 to 2018, a total of 141 fire incidences in the City of General Trias have been recorded. However, there is no detailed data of all these occurrences except for the 24 cases presented in Table 5 which were mostly caused by electrical failure.

Table 5. Fire Incidences and Causes in City of General Trias, 2015-2018

Barangay	Origin/Cause	Year			
		2015	2016	2017	2018
1. Santiago	Living Room/ Unattended Lighted Candle	1	0	0	0
2. Manggahan	Storage (Container Van) / Electrical	1	0	0	0
3. Manggahan	Between residential shanties / Electrical	0	0	0	1
4. Manggahan	Construction materials at warehouse building / electrical	0	0	0	1

Barangay	Origin/Cause	Year			
		2015	2016	2017	2018
5. Manggahan	Portion of the recycling are building / constant friction of one object such as polystyrene scrap materials subject for recycling which is a highly flammable material and moving it from one place to other causes to overheat and start the fire	0	0	0	1
6. Manggahan	Commercial Space / Electrical	0	0	0	1
7. Bacao II	Bedroom at 2 nd Floor / Electrical	0	1	0	0
8. Bacao II	2 nd Floor Level at Extension Panel Bldg. beside R & D. / Investigation turned over to NHQ-BFP	0	0	1	0
9. Bacao II	Kitchen / Unattended Cooking	0	0	0	1
10. San Francisco	Bedroom at 2 nd Floor / Electrical	0	1	2	0
11. San Francisco	Bedroom at Ground Floor / Electrical	0	0	1	0
12. San Francisco	Ground Floor Level / Alleged Arson	0	0	0	1
13. Pasong Kawayan II	Bed Room/ Unattended Lighted Candle	0	0	1	0
14. Navarro	Bedroom at 2 nd Floor / Unattended Lighted Candle	0	0	1	0
15. Buenavista II	Kitchen / Unattended Cooking	0	0	1	0
16. Buenavista III	Bedroom at Ground Floor / Electrical	0	0	0	1
17. Gov. Ferrer	Cooking Area of Olvie's Burger and Tapsilog / LPG Leakage	0	0	1	0
18. Pasong Camachile II	2 nd Floor Level / Alleged Arson	0	0	1	0
19. Pasong Camachile II	Commercial Space / Electrical	0	0	0	1
20. Biclatan	2 nd Floor Living Room / Electrical	0	0	0	1
21. Biclatan	Bedroom at 3 rd Level / Electrical	0	0	0	1
22. Javalera	2 nd Floor Bedroom / Electrical	0	0	0	1
Total		2	2	9	11

Source: Bureau of Fire – City of General Trias

Crime Incidence

Crime incidence is categorized into two (2) – index or non-index crimes. Index crimes according to the Philippine National Police (PNP), are crimes against persons and property which include murder, homicide, physical injury, robbery, theft, rape, cattle rustling, and carnapping. On the other hand, non-index crimes refer to all other illegal acts such as violation of special laws or local ordinances, gambling, use of illegal drugs, illegal logging, and illegal possession of firearms.

From 2016 to 2018, crime incidence in the City of General Trias sums up to a total of 2,191 reported cases, wherein a larger percentage of 55.41% are comprised of non-index crimes. For the past three (3) years, the highest number of crime incidence was recorded in 2016 with a total of 862 cases as illustrated in Table 6. Since then, the total crimes reported gradually decrease in the succeeding years. From 2016 to 2018, the total cases reported decreased by 34.22 percent.

Table 6. Crime Incidence per 100,000 population, 2016-2018

Year	Total	Index Crimes	Non-index Crimes
2016	862	408	454
2017	762	380	382
2018	567	189	378
Total	2,191	977	1,214

Source: Philippine National Police – City of General Trias

The Philippine National Police (PNP) provided a separate record of crime incidence by barangay wherein the sex of offender is identified (see Table 9). However, there are some unreported cases, hence these records do not necessarily equate to the total number of crime incidence in the preceding table. Among all barangays, Barangay San Francisco had the largest number of crimes reported in 2018 with a total of 226 cases. This is followed by Barangay Pasong Kawayan II which had a total of 78. It is also remarkable that the barangays Gov. Ferrer and 1896th have little to no crime incidences for the past two years. It is noticeable that while Barangays San Francisco and Manggahan hold the location of some existing police and jail facilities they also have the highest number of crime incidence.

The BJMP Jail is the largest jail facility in General Trias. It has a total lot area of 6,400 sq.m which houses 428 inmates as of 2018. In all four (4) jail facilities identified in Table 7, it is noticeable that the inmate population is constantly increasing since 2015. In BJMP Jail, the total number of inmates almost doubled from 2015 to 2018.

Table 7. Jail Facilities, by Location and Inmate Population, 2015-2018

Type of Jail Facility	Location	Lot Area (sq.m)	Inmate Population			
			2015	2016	2017	2018
BJMP Jail	Sitio La Presa, Brgy. Navarro	6,400	218	359	391	428
Bacao Compac	Brgy. Bacao II	33.4	169 (Male)	60	112	142
San Francisco Compac	Brgy. San Francisco	24	33 (Female)	18	27	52
Manggahan Compac	Brgy. Manggahan	45	82 (Male)	50	69	116

Source: Philippine National Police – City of General Trias

On the other hand, between year 2017 to 2019, 6 out of 33 barangays in the City received drug-free clearance, namely: Alingaro, Bagumbayan, Dulong Bayan, Governor Ferrer, Prinza and Vibora as shown in Table 8.

Table 8. Drug-Free Clearance Recipient, 2017-2019

Barangay	Drug-Free Clearance Recipient		
	2017	2018	2019
Alingaro			✓
Bagumbayan (Pob)		✓	
Dulongbayan (Pob)		✓	
Governor Ferrer (Pob)	✓		
Prinza			✓
Vibora (Pob)			✓

Source: Philippine National Police – City of General Trias

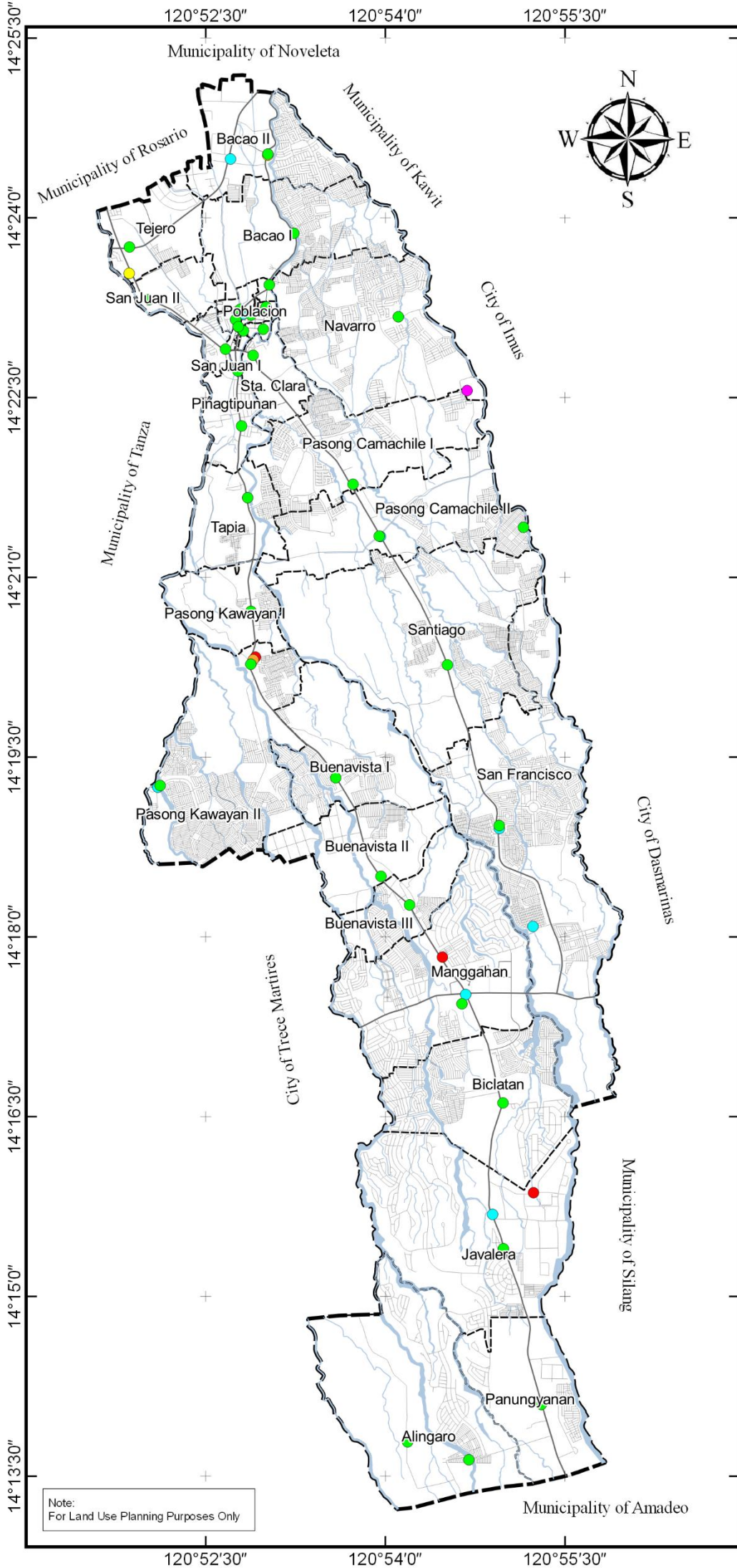
Table 9. Crime Incidence by Barangay, by Type by Sex of Offender, 2016-2018

Barangay	2016				2017				2018			
	Index Crime		Non-Index Crime		Index Crime		Non-Index Crime		Index Crime		Non-Index Crime	
	M	F	M	F	M	F	M	F	M	F	M	F
Alingaro	0	0	0	0	0	0	0	0	6	0	1	0
Arnaldo	2	3	5	0	3	0	5	0	0	0	5	0
Bacao I	13	0	7	0	4	0	7	1	2	0	9	2
Bacao II	5	4	4	1	8	0	7	0	8	0	17	1
Bagumbayan	5	1	2	2	1	2	4	1	0	0	0	1
Biclatan	9	0	1	0	6	0	4	0	7	1	20	0
Buenavista I	7	2	0	0	4	0	2	2	9	0	1	0
Buenavista II	12	3	1	0	5	0	7	1	5	0	0	1
Buenavista III	7	1	5	6	3	0	4	0	3	0	2	0
Corregidor	1	1	1	0	3	0	1	1	0	0	2	0
Dulong Bayan	2	0	2	1	2	0	1	0	0	0	2	0
Gov. Ferrer	1	0	0	0	0	0	0	0	0	0	0	0
Javalera	18	0	2	0	2	0	3	0	8	0	1	0
Manggahan	52	4	17	1	27	5	20	5	27	1	31	4
Navarro	35	0	13	8	13	1	21	0	15	0	24	2
96 th	1	0	0	0	0	0	0	0	0	0	0	0
Panungyanan	1	0	1	4	1	0	0	0	1	0	0	0
Pasong Camachile I	20	2	10	0	15	1	9	0	7	0	17	1
Pasong Camachile II	33	1	19	0	14	1	13	0	10	0	14	2
Pasong Kawayan II	5	0	2	0	1	0	3	0	2	0	5	0
Pasong Kawayan I	28	5	17	1	23	1	19	3	11	3	63	1
Pinagtipunan	11	3	10	3	10	0	10	2	1	0	10	1
Prinza	3	1	2	2	1	0	2	1	1	0	5	0
Sampalucan	3	0	2	1	0	0	2	0	2	0	0	0
San Francisco	132	3	61	0	57	5	53	6	27	1	189	9
San Gabriel	3	0	0	0	1	0	0	0	0	0	0	0

Barangay	2016				2017				2018			
	Index Crime		Non-Index Crime		Index Crime		Non-Index Crime		Index Crime		Non-Index Crime	
	M	F	M	F	M	F	M	F	M	F	M	F
San Juan I	10	3	3	6	3	0	6	2	3	0	4	1
San Juan II	6	0	4	2	1	0	5	0	1	0	0	0
Santa Clara	4	1	5	0	0	2	4	0	0	0	0	0
Santiago	35	2	14	0	19	0	18	3	21	3	27	4
Tapia	1	0	0	0	1	0	0	0	1	0	0	0
Tejero	27	1	17	3	12	0	16	3	12	1	17	4
Vibora	1	0	1	3	1	0	1	0	1	0	0	0
Total	493	41	228	44	241	18	247	31	191	10	466	34

Note: Some crime incidence is not recorded in this table due to the lack of information in the reports about the sex of offender.

Source: Philippine National Police – City of General Trias

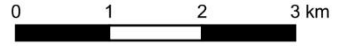


Note:
For Land Use Planning Purposes Only



City of General Trias
Province of Cavite
Region IV-A (CALABARZON)

1:70000



Projection: Transverse Mercator
Geographic Coordinate System: GCS WGS 1984
Datum: D WGS 1984

Public Safety and Protective Services Map

Legend:

- City Boundary
- Barangay Boundary
- Rivers / Creeks / Canals
- Road Network
- Evacuation Center
- Fire Station
- City Jail
- Police Station
- City Disaster Risk Reduction and Management

Prepared By:

City Technical Working Group for
Comprehensive Land Use Plan
(2022-2030)

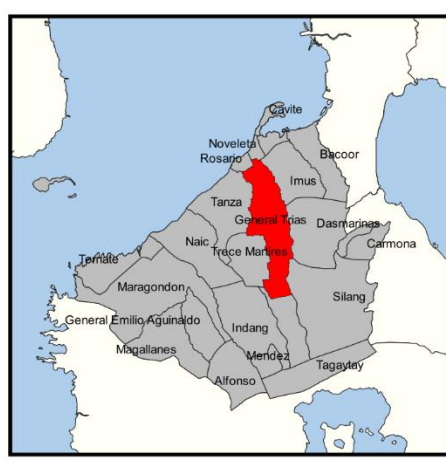
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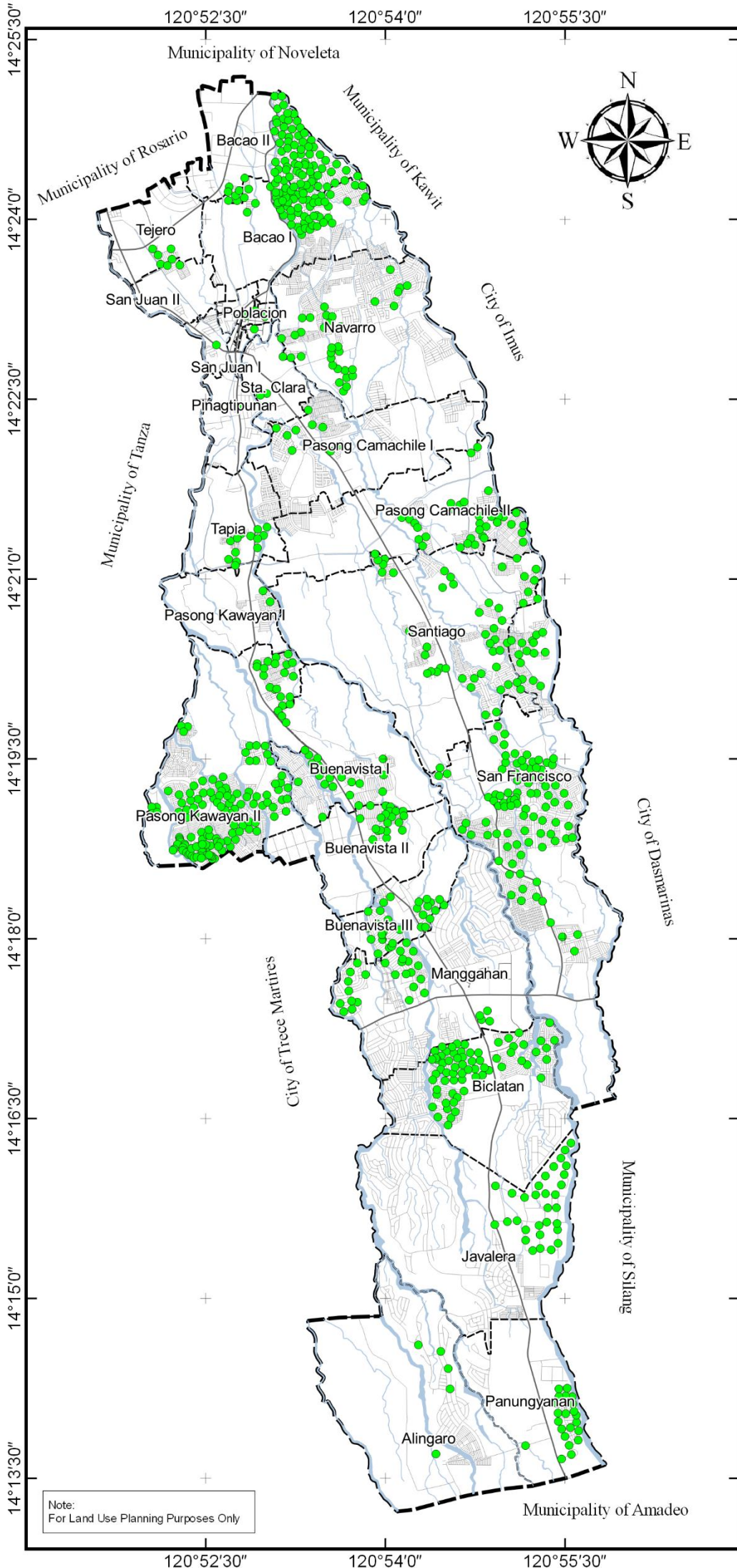


Department of Human Settlements
and Urban Development
Region IV-A

Sources:

National Mapping and Resource Information
Authority
Google Earth 2021
Office of the City Planning and Development
Coordinator / Zoning Administrator



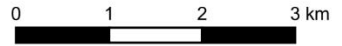


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City of General Trias
Province of Cavite
Region IV-A (CALABARZON)

1:70000



Projection: Transverse Mercator
Geographic Coordinate System: GCS WGS 1984
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Public Safety and Protective Services Map - Fire Hydrants

Legend:

- City Boundary
- Barangay Boundary
- Rivers / Creeks / Canals
- Road Network
- Fire Hydrants

Prepared By:

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(2022-2030)

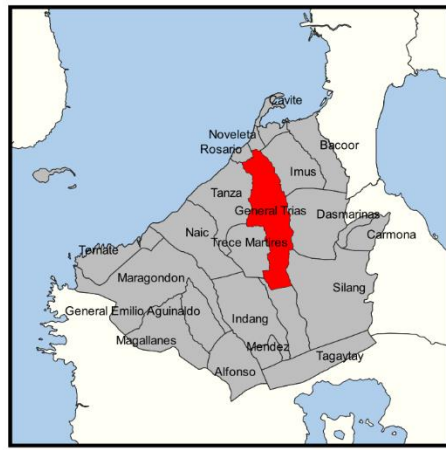


Assisted By:

Department of Human Settlements
and Urban Development
Region IV-A

Sources:

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Current and Projected Requirements for Personnel

Based on the personnel inventory presented in Table 3, the sizes of policemen and firemen are inadequate. Having 120 policemen and 22 firemen in 2018 which translates to police-to-population ratio of 1:3,054, and firemen-to-population ratio of 1:16,658 fall short to the minimum standard. Derive from the minimum standard ratio for police-to-population ratio (1:1,000) and firemen-to-population ratio (1:2,000), the city has a current shortage of 366 policemen and 221 firemen in 2021.

To achieve the minimum standard requirement, the city needs at least 961 policemen and 481 firemen by 2030 as shown in Table 10.

Similarly, to policemen and firemen, the jail guard personnel are also insufficient. Showing 1:39 jail guard-to-jail inmates that is way below the minimum standard of one (1) jail personnel per 7 jail inmates. Hence, using the minimum standard ratio, the city has a shortage of 389 jail guards in 2021. Therefore, with the projected 15,764 jail inmate population in 2030, the total required number of jail personnel in 2030 is 2,252.

On the other hand, assuming that the current need in 2021 for all personnel is already address, the demand at the end of the planning period for police force, fire force and jail guard are 475, 238, and 1,844, respectively.

Table 10. Current and Projected Requirement for Police, Fire, and Jail Personnel, 2022-2030

Type	Existing No. (2018)	Current Need (2021)	Total Required Number of Personnel per Year					
			2022	2023	2024	2025	2026	2030
Projected Population		486,052	524,314	565,587	610,109	658,136	709,943	961,294
Police Force	120	366	524	566	610	658	710	961
Fire Force	22	221	262	283	305	329	355	481
Projected Jail Inmates	738	2,857	4,072	5,361	6,711	8,115	9,566	15,764
Jail Personnel	19	389	582	766	959	1,159	1,367	2,252

Notes: Projected Jail Inmates based on General Trias population rate per annum at 0.23205.

Projection based on DHSUD Guideline: (a) 1:1,000 police-to-population ratio, (b) 1:2,000 firemen-to-population ratio, (c) 1:7 jail guard-to-jail inmate population ratio.

Source: Philippine National Police – City of General Trias; Office of the City Planning and Development Coordinator