#### 6.2 WATER DEMAND PROJECTION

#### 6.2.1 Scope

The water demand projection for the water supply system of MWSS is done to determine the domestic, commercial, and industrial water demand in MSA, from the city/municipal level down to the barangay level especially for the specified Antipolo Study Area, and also, to update the projection that was made through the previous projects conducted by the MWSS. The present projection was arrived at through calculations using updated data on present water consumption, population, income growth, change of water tariff, economic growth, etc.

From the menu of available projection methods, such as time-series trend analysis, regression analysis, factorial analysis, piling up of detailed water use, etc., this study opted for a kind of multiple regression analysis, which was also adopted in the Manila Water Supply Project III (MWSP III) and the Angat Water Supply Optimization Project (AWSOP).

So that planning for the respective areas may be unified, a general adoption of the methods and data used in the Fringe Area Water Supply Project (FAWSP) and the Rizal Province Water Supply Improvement Project (RPWSIP, now RPWSP) was made, to the extent warranted in the areas covered by both projects.

#### 6.2.2 Water Demand Projection

### (1) Present Condition

#### a) Domestic Water Consumption

The derivation of the figure for the equivalent served population rests on these assumptions: for house service connections, the average number of users per connection is 8.1 (MWSS Consumer Survey, 1981); and for public faucets, the average number of users is 486 (60 times of H.S.C.), the same figure being used for projection by Corporate Planning Group of MWSS (CORPLAN). A different assumption, however, was applied to some areas under FAWSP, e.g., Imus, Antipolo, Montalban and San Mateo -- an assumption resulting from the detailed investigation of each area by

FAWSP.

The data on billed water consumption and number of house service connections are shown in Table 6.2.1. These were prepared by the Computer Service Center of the MWSS.

Of the billed domestic water, metering losses accounted for about 9.57 percent. This ratio was estimated from the results of a field survey conducted under the Manila Water Supply Rehabilitation Project II (MWSRP II).

Calculations on present per capita water consumption were made based on recorded water consumption and the estimated served population (Table 6.2.2). For house service connections, the average per capita water consumption is 170 liter per capita per day (lpcd). This consumption type recorded a low of 51 lpcd in Las Piñas and a high of 324 lpcd in Parañaque.

Average per capita water consumption from public faucets is 19 lpcd, ranging from 9 lpcd in Makati to 79 lpcd in Antipolo. For purposes of statistical analysis, however, using these figures raises questions as they are much influenced by the accuracy of assumptions. The number of public faucets is very limited for this kind of statistical analysis. The estimated per capita consumption from public faucets is thus not suitable for the projection of future water consumption.

Municipalities with low per capita consumption are generally found in areas experiencing water supply constraints, e.g., Caloocan City, Las Piñas, Malabon, Muntinlupa, Navotas, Pateros, Taguig, Valenzuela, and some municipalities in the provinces of Cavite and Rizal. Because of insufficient water supply, water consumption in these areas is suppressed. Considering their potential demand to be higher, a rapid increase in water consumption will be seen after improvement of water supply situation is effected by MWSS through several ongoing projects such as AWSOP, Manila South Water Distribution Project (MSWDP), and FAWSP. This improvement is factored into the demand projection for these areas.

For the BP799 area in Rizal Province, no useful data on water consump-

tion was obtained. The data prepared by RPWSIP were utilized for the projection of future water consumption.

### b) Commercial Water Consumption

The total billed commercial consumption in 1990 averaged 303,732 m<sup>3</sup>/day as shown in Table 6.2.3. The larger part of this consumption was taken up by the NCR, amounting to 99.2% of the total. In particular, Manila, Quezon City and Makati combined to share of 97.1% of the total. The commercial sector of Cavite and Rizal consumed only 0.4% and 0.5%, respectively, of the total commercial consumption.

After adjustment for meter error, the average consumption per meter connection was placed at 8.119 m3/day, ranging from 0.734 m3/day in Muntinlupa to 14.910 m3/day for Makati. The correction factor used for adjustment was based on the survey result conducted by the Manila Water Supply Rehabilitation Project I (MWSRP I) and was calculated at +13.33%.

Thus, the recorded billed consumption of large meters such as commercial and industrial sector was increased by 13.33% for data processing.

For the BP799 area, no useful data on water consumption of commercial sector were available.

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## c) Industrial Water Consumption

The total billed industrial consumption in 1990 averaged 74,552 m3/day as shown in Table 6.2.4. Most of this was also consumed in the NCR, amounting to 96.3% of the total, almost the same figure for its commercial consumption. Of this percentage, more than half was also accounted for by Manila, Quezon City and Makati which combined to a total share of 54.8% of total consumption. In the case of Mandaluyong and Pasig, the parity between commercial and industrial consumption breaks as the figure for industrial consumption share is higher, i.e., 3.3% for commercial and 9.2% for industrial in Mandaluyong, and 2.7% and 9.6% in Pasig. The industrial sector of Cavite and Rizal consumed only 1.4% and 2.3% respectively, of the total industrial consumption. After making the same adjustment for meter error as that done for the commercial sector, the average consumption per meter connection became 10.788

m<sup>3</sup>/day, ranging from 0.756 m<sup>3</sup>/day in Muntinlupa to 29.897 m<sup>3</sup>/day in Man daluyong. For the BP799 area, no useful data on the water consumption of the industrial sector were available.

# d) Groundwater Consumption

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As discussed in Subsection 2.2.2, MWSS has been pumping up a yearly average of about 29,922,000 m<sup>3</sup> of groundwater for the last 6 years. This volume is equivalent to about 82,000 m<sup>3</sup>/day or 3.4% of all MWSS water production for the same period.

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In addition to the pumpage by MWSS, groundwater pumpage of the private sector in 1990 amounted to a daily average of about 840,700 m3. Around 45% or about 379,000 m³ of pumpage by the private sector was used for domestic use. This volume is equivalent to 44% of served water by MWSS. The population with private water supply systems was estimated to be about 38% of the population with MWSS water supply system, in consideration of said per capita water consumption and private pumpage for domestic use (Table 6.2.2). Thus, about 31% of the water demand in domestic use was supplied from the private groundwater pumpage.

As shown in Table 6.2.3, it is estimated that about 106,800 m3/day or 24% of total water demand for commercial use was supplied by the private sector.

In contrast to the commercial water consumption, about 81% of the total water demand for industrial use amounting to about 354,900 m3/day was supplied by the private sector (Table 6.2.4).

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# (2) Water Consumption Projection

### a) Domestic Water Consumption

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Projections of domestic consumption were computed separately for general and blighted populations. Population and per capita water consumption were determined for each group.

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# Per Capita Water Consumption

Domestic water consumption is affected by income growth and water tariff change with some extent of elasticity for both factors. The projection for a given year is done by first determining the per capita domestic water consumption in that year. This may be given by the following formula:

```
PCC(I) = PCC(I-1) \times [1+(PCIG(I-1)+(TI(I-1)\times PED))].
where:
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PCC(I) = per capita consumption for year I

PCIG(I) = per capita income growth in real terms

in year I

IED = income elasticity consumption

TI(I) = tariff increase in real terms in year I

PED = price elasticity of consumption

Data on per capita income growth, water tariff increases, income elasticity, and price elasticity are assumed by CORPLAN as shown in Table 6.2.5. For the general population, CORPLAN assumed a continuous decrease of per capita income up to the year 2010. Tariff was assumed to increase continuously starting year 1993, by 1.38% annually. Income elasticity and price elasticity computed by CORPLAN are 0.30 and -0.20 respectively. Per capita consumption in the year 2010, therefore, was computed to decrease to about 87% of that in 1990.

Projected per capita consumption of the blighted population in the year 2010 was also computed to decrease slightly due to tariff increase, even with the assumption of stability in their per capita income. Table 6.2.5 also shows the computation results for both groups.

Computation results show rather low per capita consumption relative to those in foreign countries. In previous studies, i.e., FAWSP and RPWSIP, increasing per capita consumption were assumed in projecting future water consumption.

This Study, therefore, set the per capita consumption of the general population at 180 lpcd for the year 1995 and 200 lpcd for 2010. Said settings are in harmony with the per capita consumption in typically

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developed areas such as Manila and Quezon City. For the years between 1995 and 2010, per capita consumptions were interpolated. For some municipalities with present high per capita consumption, that is, those with more than 200 lpcd, per capita consumption in the year 2010 was set in consideration of present consumption.

The per capita consumption in some areas which presently lack water, but which are expected to benefit from AWSOP and MSWDP, was assumed to substantially increase by the year 1995. The per capita consumption in those areas was also set at 180 lpcd, considering the present water consumption amount and the distance from the central distribution system.

For municipalities located in the outlying areas but which are covered by the ongoing projects, i.e., FAWSP and RPWSP, the per capita consumption applied in each project was also adopted in this Study for consistency. For areas in Cavite, however, the same per capita consumption as the one for NCR was adopted.

Table 6.2.6 presents the adopted per capita consumption of each city/municipality for selected years.

Per capita consumption of the blighted population is limited by the water supply capacity of faucets. Their consumption was calculated to be 30 lpcd, on the assumption that they get their water from public faucets having a 24-hour flow rate of 10 liter/min. and a service rate of 486 persons per faucet. In projecting their consumption, setting the per capita consumption at 35 lpcd seems to be appropriate, considering the estimated present per capita consumption from public faucets was that presented in Table 6.2.2. This per capita consumption is held to be constant up to the year 2010.

#### Projected Population

The population of each city/municipality in the future that was projected in Section 6.1 contains general and blighted population categories. The projected population under such categories were adopted for the projection of water consumption.

For some areas, the estimated year-1990 general population is smaller than the estimated equivalent number of population for house service connections. This means that a part of the blighted population have house service connections instead of public faucets. For those areas, therefore, corrections were made on the ratio of blighted population to total population, with the assumption that the estimated equivalent number of population for house service connections is equal to the general population of the area.

Moreover, since beneficiaries of private sector supply systems may also be categorized under general population, around 80% of the NCR population was estimated to fall under this category as shown in Table 3.2.3. Therefore, the ratio of the total blighted population was adjusted at 20% of total population in accordance with the respective shares of the estimated blighted population in each municipality in year-1990 as shown in Table 6.2.7.

Assuming these blighted population ratios will be constant in the future, the future populations were projected for both groups.

The ratio of population served by MWSS was determined by city/municipality for each projection year in view of the estimated present served population by MWSS and private water supply systems presented in Table 6.2.2.

For the areas covered by FAWSP and RPWSP, the served population projected in the reports of these projects were adopted after adjusting the projected population of each area.

# Domestic Consumption

Total domestic consumption is obtained by multiplying per capita consumption and population over all cities and municipalities for each projection year. Computation results at 5-year intervals for years 1995-2010 are presented in Tables 6.2.8 to 6.2.11.

## b) Commercial Water Consumption

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Commercial water consumption is similarly influenced by economic growth

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and tariff changes in real terms, with some extent of elasticity on both factors.

The annual commercial consumption in a given year may be given by the following formula:

 $CD(I) = CD(I-1) \times [1+(CG(I-1)\times COED)+(CTI(I-1)\times CPED)]$ where:

I = Year

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CD(I) = Total commercial consumption in year I

CG(I) = GDP growth rate in service sector in

year I

COED = output elasticity of consumption in service sector

CTI(I)= tariff increase in real terms in year I

CPED = price elasticity of consumption

Data on GDP growth in the service sector discussed in Section 6.1 were applied for this projection. Data on tariff increases, output elasticity, and price elasticity were assumed by CORPLAN as shown in Table 6.2.12. As computed, commercial consumption in the year 2010 in the MSA, excluding the BP799 area, will be more than double the estimated present demand.

The share of MWSS water supply to the total commercial consumption was calculated at 76.3% based on the actual billed water consumption and the estimated total commercial consumption (Table 6.2.3). The amount of privately supplied water for commercial consumption was about 106,800 m3/day based on the groundwater use survey. Assuming that the share of private supply and the share of the consumption of each city/municipality will be stable in the future, the commercial consumption in the future was projected as shown in Table 6.2.13. For the areas under BP799, commercial consumption was computed using the methods adopted in RPWSP.

It is estimated that MWSS shall supply 801,100 m<sup>3</sup>/day for commercial consumption in the year 2010. This amount is equivalent to 2.3 times of the presently supplied amount for commercial use.

# c) Industrial Water Consumption

Industrial water consumption in the future is projected in the same way as commercial water consumption.

The projected growth of the GDP for the industrial sector as discussed in Section 6.1 was applied for the projection of industrial consumption. Data on tariff increases, output elasticity, and price elasticity that were assumed by CORPLAN were also adopted for the Study and are shown in Table 6.2.14.

Industrial consumption in the year 2010 is estimated to be about 1.8 times of estimated present demand.

The share of MWSS water supply to the total industrial consumption is calculated at 19.2% based on the actual billed water consumption and the results of the groundwater use survey (Table 6.2.4). The private supply for industrial consumption in 1990 was about 354,900 m³/day. Assuming that the share of the private supply and the share of the consumption by each city/municipality will be stable in the future, the industrial consumption in the future was projected as shown in Table 6.2.15. For the areas covered by RPWSP, industrial consumptions were computed using the respective methods adopted in RPWSP.

It is estimated that MWSS shall supply 223,700 m3/day for industrial consumption in the year 2010. This amount is equivalent to 2.6 times of present MWSS industrial consumption.

### (3) Total Water Demand

The total water demand is obtained by summing up the domestic, commercial, and industrial consumption that are projected for each year. Also added to this demand are the water losses during distribution.

Present Non-Revenue Water of MWSS exceeds 50% of total distributed amount, and it includes various components e.g., meter error, illegal connections, leakage, and so on. The projected future consumption, however, excludes leakage. The MWSS water demand thus involves adding the amount of leakage.

The size of projected water demand, given the currently high NRW ratios, will be affected substantially by the leakage ratios that are adopted. MWSS aims to reduce the NRW ratio to 25% in its reduction program under MWSRP I and II which are under current implementation.

Reducing the NRW ratios to such levels may, however, be difficult to achieve as present ratios are still high. Even AWSOP already adopted higher NRW ratios in its feasibility stage. But even these higher ratios were revised for higher ones at AWSOP's detailed design stage.

For reasons of comparison, three cases were presented for the above said ratios, from which the leakage ratios to be used in water demand projection in this study was determined.

The first case (Case 1) is based on the projection by CORPLAN. Leakage amount will be reduced to 25.2% of total demand in year 1995, to 21% in years 2000, 2005, and 2010.

The second case (Case 2) is based on the ratios used in AWSOP's feasibility study stage. These NRW ratios, 30% in year 1995 and 25% in years 2000, 2005 and 2010, are higher than those CORPLAN.

In the ongoing detailed design stage of AWSOP, leakage ratios higher than those in Case 2 were adopted: 35% for year 1996. The third case (Case 3) had this considered such that the ratio for 1995 is 35%, that for 2000 is 30%, and 25% for years 2005 and 2010.

All three cases are tabulated below. The ratios applied in Case 3 are the ones adopted by this Study for the projection of water demand.

# ADOPTED LOSS RATIO (% to Total Supply)

|      |   | 1995 | 2000 | 2005 | <u>201</u> | 0 |
|------|---|------|------|------|------------|---|
| CASE | 1 | 25.2 | 21.0 | 21.0 | 21.        | 0 |
| CASE | 2 | 30.0 | 25.0 | 25.0 | 25.        | 0 |
| CASE | 3 | 35.0 | 30.0 | 25.0 | 25.        | 0 |

The computation results for years 1995, 2000, 2005, and 2010 are summarized in Tables 6.2.16 to 6.2.18 and Figures 6.2.1 to 6.2.3.

## 6.2.3 Supply Capacity Against Demand

A yearly water demand and supply analysis for the period 1995 to 2000 and for years 2005 and 2010 was made considering the projected water demand and the planned water supply capacity.

The projected water demand was allocated by expected water source, assuming the ratio of supplied water by source as shown in Tables 6.2.19 to 6.2.22. The location of respective area, the present coverage of the Central Distribution System (CDS) and existing groundwater pumping capacity were considered for this assumption. In this assumption, Bacoor and Kawit in Cavite will be served through CDS. Areas in Rizal, however, are generally supplied with groundwater except some areas which are close to existing CDS.

Taking the assumption that the planned and ongoing projects to augment the water source and treatment capacity will be implemented on schedule, a comparison of surface water supply capacity and water demand for each particular year was done (Table 6.2.23 and Figure 6.2.4). From this comparison, the following were noted:

- a. AWSOP is indispensable to meet demand.
- b. The surface water supply capacity will not be critical to meet demand until 2010 even if produced water is supplied to NCR and a part of Cavite and Rizal, and the augmentation of water source is conducted on schedule.
- c. If implementation of UATP and MNEWSP is delayed, water supply situation will be critical by the year 2005.
- d. Required groundwater pumpage will increase to about 1,278,000 m<sup>3</sup>/day in 2010 including discharge by private sector.
- e. The share of groundwater in total water supply will decrease down to about 24.6% in 2010.
- f. If the Bulacan Bulk Water Supply Project is implemented, implementation of MWSP III shall be advanced as early as possible.

Otherwise supply situation will be critical soon after year 2005. Though water amount to be allotted for the Bulacan project shall be decided based on the probable implementation schedule of MNEWSP, UATP, and MWSP III, the proposed amount for its Phase I (1996; 100,200 m3/day, 2000; 131,100 m3/day) can be secured if UATP is executed on schedule. However, supply of all

proposed amount for Phase II (2010; 398,400 m<sup>3</sup>/day) before completion of MWSP III will make MWSS water supply situation critical.

## 6.2.4 Groundwater Discharge Projection

## (1) Outline of Scenarios

For preparation of data to be used in the simulation of future groundwater level in Metro Manila, projection of groundwater discharge was done using the projected groundwater demand in the study area. For that purpose, the following four scenarios were prepared considering the probability of assumptions stated in each case.

### Basic Assumptions:

- a. AWSOP will be completed in 1996.
- b. UATP will be completed in 1998.
- c. MNEWSP will be completed in 1997. Water source for the whole area of Montalban, San Mateo, and a part of Marikina will be converted to the Wawa Dam the next year. Groundwater utilization facilities to be constructed to meet demand by that year will be operated continuously from that year onward.
- d. MSWDP will be completed in 1995.

#### Scenario 1 (Basic Scenario):

The increase of commercial and industrial water demand will be in pro-

portion to the estimated present share of the MWSS and the Private sector, except in some areas within CDS such as Manila, Pasay, Quezon, Caloocan, Makati, Malabon, Mandaluyong, Navotas, and San Juan. In these areas, said increase will be covered by MWSS only. In Cavite area, only Bacoor and Kawit will be supplied by CDS.

The calculations done in Subsections 6.2.2 and 6.2.3 were based on this scenario.

# Scenario 2 (Optimistic Scenario):

The same assumption on commercial and industrial water demand in Scenario 1. However, commercial and industrial water demand increase in the private sector from year 2001 is converted to MWSS. Municipalities in the Cavite area will be supplied by CDS.

# Scenario 3 (Most Optimistic Scenario):

The same assumption on commercial and industrial water demand in Scenario 1. However, commercial and industrial water demand increase in the private sector from year 1996 is converted to MWSS. Municipalities in the Cavite area will be supplied by CDS.

# Scenario 4 (Pessimistic Scenario):

The same assumption on commercial and industrial water demand in Scenario 1. However, implementation of projects mentioned in Basic Assumptions is delayed for 2 years. In the Cavite area, only Bacoor and Kawit will be supplied by CDS.

Difference between assumptions in each scenario can be summarized briefly as shown in Table 7.3.1.

# (2) Projected Groundwater Discharge

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In accordance with the just said scenarios, the future groundwater demand was projected.

Using the future groundwater demand projection results, the distribution

of groundwater discharge was projected for each scenario. To increase the probability of the projection, adjustment including interpolation was done on the projected discharge between the years 1991 to 1999 for several areas in Cavite and Rizal so as to moderate the rate of increase of discharge. Projections for each scenario are summarized in Tables 6.2.24 to 6.2.27.

In Scenario 1, groundwater discharge will increase to 1,278,000 m<sup>3</sup>/day, which is equivalent to 1.37 times of estimated present discharge.

In Scenario 2, total discharge will increase to 1,139,000 m<sup>3</sup>/day or 1.22 times of present level, and 1,064,000 m<sup>3</sup>/day or 1.14 times in the Scenario 3.

In the Scenario 4, which is pessimistic but has a high probability, total discharge will be 1,295,000 m<sup>3</sup>/day or 1.39 times of present discharge amount.

For all scenarios, areas in Cavite and Rizal require much increase of groundwater discharge.

# 6.2.5 Water Demand Projection in Antipolo Basin

#### (1) Present Situation

#### a) Existing System

The Poblacion area of Antipolo which occupies the center of the Antipolo Basin was initially served by the water supply system constructed by the then Bureau of Public Works. The system includes 6 deepwells and about 20 km of distribution pipelines. When Antipolo became a part of the MWSS service area in 1976, the system was turned over to MWSS.

To meet the water demand, MWSS constructed an additional 4 deepwells for the system: 2 wells in 1981; 1 well in 1982; and 1 well in 1983. A total of 10 deepwells have therefore been operational since those times. All of these wells are currently operated on 24-hour basis. Their various capacities range from 210 liter/min. to 1,400 liter/min. Due to limited water source and rugged terrain of the area, rationing is

done in the system via control of valves.

At present, the system has about 33.59 km of distribution pipelines. A distribution reservoir is not provided in the system so that the pumped groundwater is directly injected into the distribution pipes after some extent of chlorination.

# b) Water Consumption

The Computer Service Center of MWSS summarized as shown in Table 6.2.28 the existing number of connections and water consumption in 1990 of the MWSS water supply system in the Antipolo Basin.

Observations regarding this table are summarized below:

- a. Total water consumption in the basin is rather small in comparison with the share of no. of connections due to small water consumption in industrial sector.
- b. The share of domestic consumption is in accord with the share of no. of connections.
- c. The character of the area in the basin may be categorized as a residential area with small scale commercial enterprises.
- d. Per capita domestic consumption may be estimated as follows:
   2,962 m³/day / (3,535 conn. x 8.1 person/conn.)
   = 103.4 lpcd

According to the groundwater use survey conducted in this study, 26 deepwells are operated in the basin in addition to the 10 deepwells of MWSS. The discharge and water consumption by use obtained by the survey is summarized in Table 6.2.29.

Thus, the MWSS system discharged about half of the total groundwater discharge in the basin. Only 33.5% of MWSS discharge was billed as revenue water in 1990. Though a part of NRW seems to be consumed by illegal connections, most of it is considered to be leakage in view of the rather low per capita consumption estimated for the area. Survey on

this matter was conducted by FAWSP in 1989. As a result of that survey, ratios for leakage and unbilled consumption during that time were estimated at 68.2% and 0.2% of production amount, respectively.

# (2) Water Demand Projection

#### a) Domestic Water Consumption

The population projected in Section 6.1 was adopted for the projection of water demand in the basin. MWSS service ratio was determined in accordance with the planned service coverage of the MWSS system and the extent of urbanization. MWSS service coverage was determined under the following assumptions:

- a. The service area within the basin boundary will be limited by the year 2000, except for the present service area that is out of the basin.
- b. The service area will continuously expand outward from the central area (poblacion).
- c. The priority of service will be laid on the present developed area, and it will be covered by the year 2000.
- d. Present developed area closely located outside the basin will be covered after the year 2001.
- e. The basin will be fully covered by the system by the year 2010.

Figures 6.2.5 and 6.2.6 present the service coverage in selected years.

Population in the service area can be derived by multiplication of population and service ratio. In 1995, it will be about 71,000, including those in the present service area outside of the basin, and which is about 67% of the population in the basin. It will increase to about 195,000 or about 110% of basin population in the year 2010. Since the estimated present served population is about 29,000 (3,535 conn. x 8.1), the served population in 2010 will be about 6.8 times of present served population (Table 6.2.30).

The domestic water demand in the MWSS's system in the basin were computed as shown in Table 6.2.31 adopting the same per capita consumption as those applied in the previous projection in FAWSP.

#### b) Commercial Water Consumption

The water consumption of the commercial sector computed in Subsection 6.2.2 was adopted in projecting commercial water consumption.

Based on the data presented in Table 6.2.28, 51% of the MWSS commercial consumption projected for the Antipolo municipality is considered to be consumed in the basin.

Allocation to each barangay was done in accordance with the domestic consumption share of each barangay. The computation results for the entire basin and the MWSS system are presented in Tables 6.2.32 and 6.2.33

# c) Industrial Water Consumption

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The water consumption in industrial sector computed in Subsection 6.2.2 was adopted in the projection of industrial water consumption.

Based on the data presented in Table 6.2.28, 3% of the MWSS industrial consumption projected for Antipolo municipality is considered to be consumed in the basin. The present private industrial consumption, in addition to the MWSS industrial consumption, was added to the total demand, considering that the bulk of it was consumed by a few poultry farms.

Allocation to each barangay was executed in accordance with the share of the domestic consumption. The computation results for the entire basin and the MWSS system are presented in Tables 6.2.32 and 6.2.33.

# And (ad) Distribution Loss of the Anna State of the State

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Losses during water distribution are mainly caused by leakage. Though the present leakage ratio is considerably high, probably amounting to more than 50%, a ratio of 30% was applied for the projection up to the year 2000, and 25% after that, in anticipation of the benefits of the NRW reduction program and of new projects to be implemented in the basin, including the high rate replacement of old distribution pipes.

# e) Total Demand

Total water demand in the basin and in the MWSS service area are summarized in Tables 6.2.32 and 6.2.33.

# (3) Analysis on Supply Capacity and Projected Demand

Projected water demand for the Antipolo basin is summarized as shown in Table 6.2.34. Because of the limited yield of the groundwater resource in the basin, additional water sources in the future shall be mainly obtained from surface water resources. Based on the computer simulation of the groundwater condition in the basin, a groundwater discharge of about 27,800 m3/day is considered to be the maximum limit of discharge in the basin. Augmentation of water source, as implied in the table, is a course that should be immediately pursued.

Due to the pumpage of existing groundwater pumping facilities, the water source augmentation by groundwater resource is limited up to 8,300 m3/day. Of this figure, 2,070 m3/day will be obtained through rehabilitation of existing MWSS's deepwells. Therefore, the additional pumpage resulting from the development of new wells shall be limited to a total of 6,274 m3/day.

After augmentation of the groundwater resource, supply capacity will be able to meet the demand until the year 1998, on a daily average basis. On a daily maximum basis, however, supply capacity will not be able to satisfy the demand from 1995 onward.

Further augmentation is thus required, and at an average of about 1,800 m3/day in the year 2000 and about 18,100 m3/day in the year 2010, assuming maximum groundwater production capacity is about 27,400 m3/day (Table 6.2.34 and Figure 6.2.7). On a daily maximum basis, amount of augmentation is  $15,500 \, \text{m}^3/\text{day}$  in 2000 and  $40,900 \, \text{m}^3/\text{day}$  in 2010.

TABLE 6.1.1 TOTAL POPULATION, HOUSEHOLD POPULATION AND NUMBER OF HOUSEHOLDS IN THE STUDY AREA (1990)

| CITY/MUNICIPALITY | : TOTAL      | : HOUSEHOLD  | : NUMBER OF<br>: HOUSEHOLD |
|-------------------|--------------|--------------|----------------------------|
|                   | : POPULATION | : POPULATION | : HOUSEMULL                |
| METRO MANILA      | 7,928,867    | 7,887,861    | 1,567,66                   |
| 1. Manila         | 1,598,918    | 1,585,887    | 308,87                     |
| 2. Pasay City     | 366,623      | 364,959      | 73,64                      |
| 3. Quezon City    | 1,666,766    | 1,659,940    | 331,76                     |
| 4. Calookan City  | 761,011      | 759,420      | 150,97                     |
| 5. Las Pinas      | 296,851      | 296,645      | 57,77                      |
| ô. Makati         | 452,734      | 450,163      | 89,31                      |
| 7. Malabon        | 278,380      | 278,161      | 58,05                      |
| 8. Mandaluyong    | 244,538      | 242,526      | 49,06                      |
| 9. Marikina       | 310,010      | 309,103      | 60,09                      |
| 10. Muntinlupa    | 276,972      | 268,960      | 53,44                      |
| 11. Navotas       | 186,799      | 186,642      | 38,86                      |
| 12. Parañaque     | 307,717      | 306,865      | 61,25                      |
| 13. Pasig         | 397,309      | 396,764      | 77,62                      |
| 14. Pateros       | 51,401       | 51,359       | 9,80                       |
| 15. San Juan      | 126,708      | 125,815      | 24,33                      |
| 16. Taguig        | 266,080      | 265,043      | 53,15                      |
| 17. Valenzuela    | 340,050      | 339,609      | 69,64                      |
| CAVITE            | 457,020      | 456,569      | 91,39                      |
| 1. Bacoor         | 159,685      | 159,663      | 30,92                      |
| 2. Cavite City    | 91,641       | 91,480       | 19,04                      |
| 3. Imus           | 92,125       | 91,875       | 18,64                      |
| 4. Kawit          | 47,755       | 47,755       | 9,76                       |
| 5. Noveleta       | 20,409       | 20,409       | 4,01                       |
| 6. Rosario        | 45,405       | 45,387       | 9,00                       |
| RIZAL             | 980,194      | 978,596      | 189,71                     |
| i. Angono         | 46,014       | 45,439       | 8,94                       |
| 2. Antipolo       | 207,842      | 207,665      | 40,85                      |
| 3. Baras          | 16,880       | 16,880       | 3,16                       |
| . Binangonan      | 127,561      | 127,421      | 24,37                      |
| 6. Cainta         | 126,839      | 126,680      | 24,77                      |
| 6. Cardona        | 32,962       | 32,958       | 6,26                       |
| 7. Jala-Jala      | 16,318       | 16,318       | 3,03                       |
| 3. Morong         | 32,165       | 32,165       | 6,25                       |
| 9. Pililla        | 32,771       | 32,771       | 6,13                       |
| 10. Montalban     | 67,074       | 67,011       | 12,89                      |
| 11. San Mateo     | 82,310       | 82,289       | 16,07                      |
| 12. Tanay         | 58,410       | 58,196       | 11,08                      |
| 13. Taytay        | 112,403      | 112,163      | 21,88                      |
| 14. Teresa        | 20,645       | 20,640       | 3,97                       |
| TOTAL             | 9,366,081    | 9,323,026    | 1,848,77                   |

Source: National Statistics Office

1990 Census of Population and Housing

TABLE 6.1.2 POPULATION DISTRIBUTION IN ANTIPOLO (1990)

| MUNICIPALITY/<br>BARANGAY | : TOTAL :<br>: POPULATION : | HOUSEHOLD : NUMBER OF<br>POPULATION : HOUSEHOLDS |
|---------------------------|-----------------------------|--|
| ANTIPOLO                  | 207,842                     | 207,665 40,852                                   |
| 1. Bagong Nayon           | 18,002                      | 18,002 3,472                                     |
| 2. Beverly Hills          | 1,034                       | 1,034 191  |
| 3. Calawis                | 1,662                       | 1,662 353  |
| 4. Cupang                 | 25,696                      | 25,690 5,005                                     |
| 5. Dalig                  | 20,334                      | 20,334 3,964                                     |
| 6. De La Paz              | 21,033                      | 21,033 4,158                                     |
| 7. Inarawan               | 4,965                       | 4,965 1,023                                      |
| 8. Mambugan               | 15,636                      | 15,611 2,970                                     |
| 9. Mayamot                | 15,887                      | 15,887 3,142                                     |
| 10. San Isidro            | 19,260                      | 19,248 3,776                                     |
| 11. San Jose              | 26,121                      | 26,049 5,067                                     |
| 12. San Juan              | 1,394                       | 1,394 298  |
| 13. San Luis              | 6,241                       | 6,241 1,340                                      |
| 14. San Roque             | 17,227                      | 17,165 3,287                                     |
| 15. Sta. Cruz             | 13,340                      | 13,340 2,806                                     |

Source: National Statistics Office

1990 Census of Population and Housing (Report No. 2-A)

ABLE 6.1.3 POPULATION DISTRIBUTION, LAND AREA AND POPULATION DENSITY: ANTIPOLO AREA (1990, 2000 AND 2010)

| BARANGAY,        |                                       |   | POPULA                                | N O H      |                                       |   | LAND<br>(H                              | AREA (Ha.)                 | DENS<br>(Persor | Person per Ha.)  | S.A. |
|------------------|---------------------------------------|---|---------------------------------------|------------|---------------------------------------|---|---|----------------------------|-----------------|------------------|------|
| MUNICIPALITY     | 1990                                  |   | 2000                                  |            | 2010                                  | 1                                       | Total                                   | 1                          |                 |                  | 1    |
|                  | Barangay                              | Study Area                              | Barangay                              | Study Area | Baragay                               | Study Area                              | Barangay                                | Study Area;                | 1990            | 2000             | 2010 |
| 1. Bagong Nayon  | 18,002                                | 14,402                                  | 27,647                                | 22,117     | 37,637                                | 30,110                                  | 648.0                                   | 319.2                      | NA<br>NA        | 69               | 94   |
| 2. Santa Cruz    | 13,340 ;                              | 9,338                                   | 20,539                                | 14,377     | 27,985                                | 19,597                                  | 1,108.0                                 | 778.4                      | 12              | 18               | 25   |
| 3. De La Paz     | 21,033 ;                              | 21,033                                  | 32,269                                | 32,269 ;   | 13,906                                | 13,906 ;                                | 420.6                                   | 420.6                      | 50.             | 77.              | 104  |
| 4. Beverly Hills | 1,034 ;                               | 1,034                                   | 1,767                                 | 1,767      | 2,532                                 | 2,532                                   | 31.4                                    | 31.4                       | 33              | 26               | 83   |
| 5. San Roque     | 17,227                                | 17,227                                  | 26,465                                | 26,465 ;   | 36,034                                | 36,034                                  | 380.4                                   | 330.4 ;                    | 45 ;            | 7.0              | 35   |
| 6. Dalig         | 20,344                                | 14,241                                  | 31,204                                | 21,843     | 42,461                                | 29,723                                  | 556.5                                   | 332.6                      | 43              | 99               | 83   |
| 7, San Jose      | 26,121;                               | 13,061                                  | 40,028                                | 20,014 ;   | 54,428                                | 27,214                                  | 5,640.1                                 | 270.0;                     | φ<br>00         | 7.               | 101  |
| 8. San Isidro    | 19,260                                | 19,260                                  | 29,566                                | 29,566;    | 40,240                                | 40,240                                  | 360.8                                   | 350.8                      | e e             | 82               | 112  |
| 9. San Luís      | 6,241;                                | 3,121                                   | 9,712                                 | 4,856;     | 13,311                                | 6,656                                   | 697.2                                   | 233.6 ;                    | I3 :            | 21               | 28   |
|                  |                                       | 1 | · · · · · · · · · · · · · · · · · · · |            | · · · · · · · · · · · · · · · · · · · | 1 · · · · · · · · · · · · · · · · · · · | ; •.<br>!<br>!<br>!<br>!<br>!<br>!      | 1 +· 2                     | f               | -                | <br> |
| SUB-TOTAL        | 142,662                               | 112,717                                 | 219,196                               | 173,274    | 298,544                               | 236,012                                 | 9,843.0                                 | 3,127.0                    | 36              | 5.5              | 75   |
|                  |                                       |   |                                       |            |                                       | <br> <br> <br>                          |   | ;<br>;<br>;<br>;<br>;<br>; |                 | )<br>;<br>;<br>; | <br> |
| 10. Taytay       | 1                                     | 7,970                                   |                                       | 10,517 ;   |                                       | 13,978                                  |   | 764.8                      | 10 1            | 7.               | 18   |
| 11. Angono       |                                       | 1,750                                   | 11111                                 | 2,705      |                                       | 4,189 ;                                 |   | 935.0                      | 2 !             | m                | 4    |
| 12. Binangonan   |                                       | 1007                                    |                                       | 958        | 1                                     | 1,334                                   |   | 141.0                      | c,              |                  | თ    |
| 13. Teresa       |                                       | 210                                     |                                       | 256 :      |                                       | 318                                     | * ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! | 120.0;                     | 7               | 2                | m    |
| SUB-TOTAL        | ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | 10,630                                  |                                       | 14,436     |                                       | 19,819                                  |   | 1,960.8                    | <br>            |                  | 01   |
| TOTAL            | 7                                     | 123,347                                 |                                       | 187,710 ;  |                                       | 255,831 ;                               |   | 5,087.8 ;                  | 24 :            | 37               | l s  |
|                  |                                       |   |                                       |            |                                       |   |   |                            |                 |                  |      |

TABLE 6.1.4 POPULATION DISTRIBUTION, LAND AREA AND POPULATION DENSITY: AQUIFER BASIN ZONE (1990, 2000 AND 2010)

| BARAWSAY/                      | -        |                     | POPULATION                              | 1 1 0 N           |         | - <b>-</b>              | LAND ARE | A REA                   | DENS<br>(bren | SENSITY S. | S.A.         |
|--------------------------------|----------|---------------------|---|-------------------|---------|-------------------------|----------|-------------------------|---------------|------------|--------------|
|                                |          |                     | *************************************** |                   |         |                         |          |                         |               |            |              |
| MANICIPALITY                   | 1990     | 26                  | 2000                                    |                   | 2010    |                         | Tota!    |                         |               |            | ٠            |
|                                | Barangay | Study Area          | Barangay                                | Study Area        | Saragay | Study Area              | Berangay | Study Area              | 1890          | 2000       | 2010         |
| BAKAKSAY                       |          |                     |   |                   |         |                         |          |                         |               |            |              |
| Santa Cruz                     | 13,340   | 4,002               | 20,538                                  | 6, 161            | 27,995  | 8,399                   | 1,108.0  | 123.6                   | 32            | 8          | 88           |
| De La Paz                      | 1 21,033 | _                   | 32,269                                  | 25,815            | 43,906  | 35,125                  | 430.6    | 159.4                   | 106           | 152        | 220          |
| San Roque                      | 17,227   |                     | 26,465                                  | 23,819            | 36,034  | 32,431                  | 380.4    | 308.4                   | ଝ             | Ш.         | 50           |
| (Jellig                        | 20,344   | 14,241              | 31,204                                  | 21,843            | 42,461  | 29,723                  | 556.5    | 332.6                   | 43            | 8          | <u>\$</u>    |
| San Jose                       | 26, 121  |                     | 40,028                                  | 20,014            | 54,428  | 27,214                  | 5,640.1  | 270:0                   | 8             | 7.         | 101          |
| San Isridno                    | 19,260   | 15,408              | 995'62                                  | 23,653            | 40,240  | 32,182                  | 350.8    | 189.0                   | 55            | 2          | 8            |
| San Luis                       | 6,241    |                     | 9,712                                   | 4,856             | 13,311  | 959'9                   | 697.2    | 233.6                   | 55            | - 51       | 88           |
| MANICIPALITY                   |          |                     |   |                   |         |                         |          |                         | <u> </u>      |            |              |
| Angano<br>Binanganan<br>Teresa |          | 1,750<br>700<br>210 |   | 2,705             |         | 4, 189<br>1, 334<br>318 |          | 572.4<br>141.0<br>120.0 |               | 2 - 3 21   | <b>⊳</b> ⊃ m |
| TOTAL                          | 123,566  | 84,823              |   | 189,782   130,080 | 258,375 | 177,581                 | 9,163.6  | 2,430.0                 | 88            | 28         | 22           |
|                                |          |                     |   |                   |         |                         |          |                         |               |            |              |

TABLE 6.1.5 GROWTH RATE OF THE STUDY AREA'S POPULATION (1990-2010)

| CITY/MUNICIPALIT             | :<br>v : | A                 | NNUAL GROWT           | H RATE            |               |
|------------------------------|----------|-------------------|-----------------------|-------------------|---------------|
| CIII/MONTOIPADII             |          | : 1995/<br>: 1990 | : 2000/ :<br>: 1995 : | 2005/ :<br>2000 : | 2010/<br>2005 |
| I. METRO MANILA              | 2.83     | 2.47              | 2.07                  | 1.73              | 1.42          |
| 1. Manila                    | -0.27    | 0.82              | 0.47                  | 0.20              | 0.00          |
| <ol><li>Pasay City</li></ol> | 2.34     | 2.28              | 1.98                  | 1.86              | 1.59          |
| 3. Quezon City               | 3.50     | 3.15              | 2.96                  | 2.76              | 2.47          |
| 4. Calookan Cit              |          | 2.74              | 2.31                  | 1.89              | 1.56          |
| 5. Las Pinas                 | 7.69     | 6.63              | 5.77                  | 5.00              | 4.28          |
| 6. Makati                    | 3.68     | 1.55              | 1.14                  | 0.81              | 0.53          |
| 7. Malabon                   | 3.69     | 1.88              | 1.43                  | 1.08              | 0.77          |
| 8. Mandaluyong               | 1.67     | 1.67              |                       | 0.91              | 0.62          |
| 9. Marikina                  | 3.74     | 2.95              | 2.41                  | 1.96              | 1.56          |
| 10. Muntinlupa               | 6.99     | 4.50              | 3.82                  | 3.24              | 2.70          |
| 11. Navotas                  | 3.85     | 2.11              | 1.64                  | 1.26              | 0.94          |
| 12. Parañaque                | 3.81     | 3.65              | 3.05                  | 2.54              | 2.08          |
| 13. Pasig                    | 3.84     | 3.21              | 2.65                  | 2.17              | 1.75          |
| 14. Pateros                  | 2.36     | 2.56              | 2.06                  | 1.64              | 1.27          |
| 15. San Juan                 | -0.33    | 1.01              | 0.64                  | 0.36              | 0.13          |
| 16. Taguig                   | 6.77     | 3.12              | 2.57                  | 2.10              | 1.68          |
| 17. Valenzuela               | 4.63     | 4.63              | 4.10                  | 3.49              | 2.93          |
| II. CAVITE                   | 3.43     | 3.11              | 2.69                  | 2.33              | 1.92          |
| 1. Baccor                    | 5.69     | 4.16              | 3.61                  | 3.11              | 2.63          |
| 2. Cavite City               | 0.44     | 1.46              | 1.14                  | 1.03              | 0.49          |
| 3. Imus                      | 4.43     | 3.02              | 2.57                  | 2.17              | 1.79          |
| 4. Kawit                     | 1.93     | 2.90              | 2.46                  | 2.07              | 1.70          |
| 5. Noveleta                  | 3,44     | 2.67              | 2.25                  | 1.88              | 1.53          |
| 6. Rosario                   | 3.09     | 3.14              | 2.68                  | 2.26              | 1.88          |
| III. RIZAL                   | 5.46     | 3.20              | 2.84                  | 2.52              | 2.07          |
| 1. Angono                    | 5.28     | 3.59              | 3.07                  | 2.56              | 2.03          |
| 2. Antipolo                  | 10.83    | 4.61              | 4.01                  | 3.40              | 2.79          |
| 3. Baras                     | 3.89     | 2.42              | 2.01                  | 1.59              | 1.17          |
| 4. Binangonan                | 4.33     | 1.97              | 1.60                  | 1.22              | 0.84          |
| 5. Cainta                    | 7.44     | 5.22              | 4.56                  | 3.90              | 3.24          |
| 6. Cardona                   |          | 1.31              | 1.00                  | 0.68              | 0.35          |
| 7. Jala-Jala                 | 2.91     |                   | and the second second | 1.04              | 0.68          |
| 8. Montalban                 | 4.50     | 4 1 1             | 2.02                  | 1.61              | 1.17          |
| 9. Morong                    | 2.36     |                   | 1.36                  | 1 69              | 1.47          |
| 10. Pililla                  | 3.23     | 1.96              | 1.58                  |                   | 0.83          |
| 11. San Mateo                | 4.52     | 2.31              | 1.91                  | 1.50              | 1.09          |
| 12. Tanay                    | 3.46     | 2.42              |                       | 1.59              | 1.17          |
| 13. Taytay                   | 3.79     | 2.83              | 2.72                  | 3.08              | 2.61          |
| 14. Teresa                   | 3.13     | 0.82              | 0.55                  | 0.27              | 0.03          |

TABLE 6.1.6 POPULATION PROJECTION FOR THE STUDY AREA, 1990-2010

| CITY/MUNICIPALITY        | : 1980<br>(CENSUS) | : 1990<br>(CBASUS) | : 1995                                  | 2000 :     | 2005 :     | 2010      |
|--------------------------|--------------------|--------------------|---|------------|------------|-----------|
| . NCR                    | 5,970,307          | 7,928,867          | 8,971,800                               | 9,948,977  | 10,847,652 | 11,649,60 |
| 1. Manila                | 1,642,708          | 1,598,918          | 1,666,014                               | 1,705,567  | 1,723,126  | 1,723,14  |
| 2. Pasay City            | 289,927            | 366,623            | 402,932                                 | 433,048    | 457,147    | 475,22    |
|                          | 1,174,605          | 1,666,766          | 1,870,519                               | 2,049,017  | 2,200,635  | 2,323,15  |
| 4. Cálookan City         | 471,323            | 761,011            | 872,801                                 | 979,527    | 1,076,883  | 1,164,63  |
| 5. Las Pinas             | 137,537            | 296,851            | 413,469                                 | 551,808    | 708,704    | 878,10    |
| 6. Makati                | 375,424            | 452,734            | 489,333                                 | 517,961    | 539,315    | 553,79    |
| 7. Malabon               | 192,433            | 278,380            | 305,870                                 | 328,653    | 346,868    | 360,51    |
| 8. Manda luyong          | 206,906            | 244,538            | 265,870                                 | 282,944    | 296,044    | 305,31    |
| 9. Marikina              | 213, 199           | 310,010            | 359,368                                 | 405,480    | 447,289    | 483,62    |
| 10. Muntinlupa           | 137,704            | 276,972            | 346,829                                 | 419,918    | 493,739    | 565,21    |
| 11. Navotas              | 127,092            | 186,799            | 207,567                                 | 225,328    | 240,031    | 251,55    |
| 12. Paranaque            | 210,115            | 307,717            | 369,370                                 | 430,253    | 488,493    | 541,98    |
| 13. Pasig                | 270,583            | 397,309            | 466,552                                 | 532,663    | 593,888    | 648,28    |
| 14. Pateros              | 40,590             | 51,401             | 58,438                                  | 64,776     | 70,318     | 74,94     |
| 15. San Juan             | 131,063            | 126,708            | 133,478                                 | 137,583    | 140,304    | 141,00    |
| 16. Taguig               | 135,143            | 266,080            | 311,031                                 | 353,627    | 392,792    | 427,32    |
| 17. Valenzuela           | 213,955            | 340,050            | 432,359                                 | 530,824    | 632,076    | 731,81    |
| II. CAVITE               | 324,273            | 457,020            | 534,043                                 | 611,062    | 686,825    | 756,08    |
| 1. 8acoor                | 90,364             | 159,685            | 196,636                                 | 235,538    | 275,150    | 313,83    |
| 2. Cavite City           | 87,666             | 91,641             | 98,576                                  | 104,379    | 109,908    | 112,62    |
| 3. Imus                  | 59,103             | 92,125             | 107,162                                 | 121,860    | 135,818    | 148,54    |
| 4. Kawit                 | 39,368             | 47,755             | 55,217                                  | 62,446     | 69,254     | 75,40     |
| 5. Noveleta              | 14,460             | 20,409             | 23,325                                  | 26, 102    | 28,673     | 30,95     |
| 6. Acsario               | 33,312             | 45,405             | 53,127                                  | 60,737     | 68,022     | 74,71     |
| III. RIZAL               | 567,346            | 980, 194           | 1,150,043                               | 1,325,537  | 1,503,547  | 1,667,35  |
| 1. Angono                | 27,136             | 46,014             | 55,062                                  | 64,219     | 72,979     | 80,78     |
| 2. Antipolo              | 70,377             | 207,842            | 261,738                                 | 319,849    | 379, 154   | 435,88    |
| 3. Baras                 | 11,434             | 16,880             | 19,051                                  | 21,063     | 22,808     | 24, 18    |
| 4. Binangonan            | 82,702             | 127,561            | 140,791                                 | 152,533    | 162, 155   | 169,11    |
| 5. Cainta                | 60,280             | 126,839            | 164,650                                 | 206,860    | 251,447    | 295,64    |
| 6. Cardona               | 25,024             | 32,982             | 35,194                                  | 36,995     | 38,270     | 38,95     |
| 7. Jala-Jala             | 12,199             | 16,318             | 17,814                                  | 19,109     | 20,131     | 20,82     |
| B. Montalban             | 42,749             | 67,074             | 75,766                                  | 83,837     | 90,845     | 96,31     |
| 9. Morang                | 25,387             | 32, 165            | 34,528                                  | 36,957     | 40,222     | 43,30     |
| 10. Pililia              | 23,716             | 32,771             | 36,137                                  | 39,119     | 41,556     | 43,31     |
| 11. San Mateo            | 53,014             | 82,310             | 92,401                                  | 101,679    | 109,620    | 115,76    |
|                          | 41,303             | 58,410             | 65,923                                  | 72,889     | 78,925     | 83,67     |
| 12. Tanay                |                    | 112,403            | 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 148,322    | 173,025    | 197,13    |
| 13. Taytay<br>14. Teresa | 76,930<br>15,095   | 20,645             | 129,481<br>21,507                       | 22,106     | 22,410     | 22,44     |
| TOTAL                    | 6,861,926          | 9,366,081          | 10,655,886                              | 11 995 576 | 13 038 034 | 14,073,04 |

Source: Estimation made by the Study Team based on NSO data

TABLE 6.1.7 POPULATION PROJECTIONS FOR THE MUNICIPALITY OF ANTIPOLO, 1990-2010

|     | VICIPALITY/<br>RANGAY | :            | 1990    | :   | 1995    | : | 2000    | : | 2005    | :  | 2010    |
|-----|-----------------------|--------------|---------|-----|---------|---|---------|---|---------|----|---------|
| ANT | PIFOLO                | •            | 207,842 | :   | 261,738 | : | 319,849 |   | 379,154 | :  | 435,886 |
| 1.  | Bagong Nayon          | :            | 18,002  | :   | 22,644  | : | 27,647  | : | 32,752  | :  | 37,637  |
| 2.  | Beverly Hills         | .:           | 1,034   | :   | 1,385   | : | 1,767   | : | 2,161   | :  | 2,532   |
| з.  | Calawis               | :            | 1,662   | • : | 2,172   | : | 2,725   | : | 3,293   | :  | 3,831   |
| 4.  | Cupang                |              | 25,696  | :   | 32,283  | : | 39,380  | : | 46,620  | •: | 53,551  |
| 5.  | Dalig                 | •            | 20,344  | :   | 25,566  | : | 31,204  | : | 36,956  | :  | 42,461  |
| 6.  | De La Paz (Pob.)      | . :.         | 21,033  | :   | 26,441  | : | 32,269  | : | 38,215  | :  | 43,906  |
| 7.  | Inarawan              | :            | 4,965   | :   | 6,312   | : | 7,767   | : | 9,254   | :  | 10,673  |
| 8.  | Mambugan              | . : <b>:</b> | 15,636  | •   | 19,680  | : | 24,039  | : | 28,487  | :  | 32,743  |
| 9.  | Mayamot               | :            | 15,887  | :   | 19,995  | : | 24,423  | : | 28,941  | :  | 33,264  |
| 10. | San Isidro            | :            | 19,260  | :   | 24,220  | : | 29,566  | : | 35,020  | :  | 40,240  |
| 11. | San Jose              | :            | 26,121  | :   | 32,815  | : | 40,028  | : | 47,385  | :  | 54,428  |
| 12. | San Juan              | ÷ <b>:</b>   | 1,394   | :   | 1,838   | : | 2,319   | : | 2,813   | :  | 3,280   |
| 13. | San Luis              | <b>:</b>     | 6,241   | :   | 7,910   | : | 9,712   | : | 11,553  | :  | 13,311  |
| 14. | San Roque             |              | 17,227  | :   | 21,673  | : | 26,465  | : | 31,355  | ;  | 36,034  |
| 15. | Sta. Cruz             | :            | 13,340  | :   | 16,804  | : | 20,538  | : | 24,349  | :  | 27,995  |

Source: Estimation made by the Study Team based on NSO data. Due to the absence of population data at barangay level prior to 1990, population projections at barangay level were based on the growth rate of the whole Antipolo municipality.

TABLE 6.1.8 BLIGHTED POPULATION BY CITY/MUNICIPALITY, NATIONAL CAPITAL REGION

| 1            |                       |   |           |          |  |           |                                       |                                     |                     |           |
|--------------|-----------------------|---|-----------|----------|--|-----------|---------------------------------------|-------------------------------------|---------------------|-----------|
|              |                       |   | 1982      |          |  | 1985      |                                       |                                     | 1990                |           |
|              | CITY/<br>MANICIPALITY | NHA<br>B. 19HTED<br>POPULATION<br>ESTIMATES | TOTAL     | æ        | NHA<br>8.1GHTED<br>POPULATION<br>ESTIMATES | TOTAL     | 96                                    | 8.16/TED<br>FORULATION<br>ESTIMATES | TOTAL<br>ROPULATION | <b>34</b> |
|              |                       |   |           |          |  |           | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |                                     |                     |           |
| <u>-</u>     | MANILA                | 545,496                                     | 1,723,044 | 8        | 470,237                                    | 1,765,903 | 26.6                                  | 425,312                             | 1,598,918           | 26.6      |
| 2.           | CALOCCAN CITY         | 130,080                                     | 492,549   | 58       | 196,507                                    | 543, 903  | 36.2                                  | 304,404                             | 761,011             | 40.0      |
| <u> </u>     | PASAY CITY            | 76,902                                      | 294,709   | 98       | 289,490                                    | 331,861   | 87.2                                  | 319,695                             | 366,623             | 87.2      |
| <del>=</del> | QUEZON CITY           | 371,904                                     | 1,296,099 | 83       | 566,415                                    | 1,377,927 | 4                                     | 755,045                             | 1,686,766           | 45.3      |
| 10.          | LAS PINAS             | 28,582                                      | 98,655    | ස        | 35,235                                     | 207,770   | 17.0                                  | 53,433                              | 296,851             | 18.0      |
| 9            | MAKATI                | 81,612                                      | 393,537   | 21       | 77,033                                     | 421,367   | 18.3                                  | 82,850                              | 452,734             | 18.3      |
| <u>:</u>     |                       | 48,883                                      | 203,313   | ষ        | 51,092                                     | 220, 198  | 23.2                                  | 79,617                              | 278,380             | 28.6      |
| <u></u>      |                       | 63,570                                      | 217,505   | 83       | 68,629                                     | 233,844   | 29.3                                  | 86,811                              | 244,538             | 35.5      |
| တ            | MARIKINA              | 32,484                                      | 204,995   | 9        | 80,000                                     | 259,807   | 30.8                                  | 105,035                             | 310,010             | 33.9      |
| 2            | . MANTINLUPA          | 39,594                                      | 116,754   | ਲੋ       | 47,200                                     | 183,594   | 25.7                                  | 79,491                              | 276,972             | 28.7      |
| Ξ            |                       | 26,020                                      | 129,314   | 43       | 73,683                                     | 147,365   | 50.0                                  | 93,399                              | 186,799             | 50.0      |
| <u>~</u>     |                       | 36,180                                      | 156,955   | ន        | 22,580                                     | 266,741   | 8.5                                   | 32,310                              | 307,717             | 10.5      |
| <u>~</u>     |                       | 37,898                                      | 309,337   | 15       | 78,348                                     | 334,771   | 23.4                                  | 112,836                             | 397,309             | 28.4      |
| <u>=</u>     | . PATEROS             | 9,945                                       | 45,277    | <u></u>  | 8,000                                      | 18,347    | 16.5                                  | 184,8                               | 51,401              | 16.5      |
| <u></u>      |                       | 21,972                                      | 135,590   | 9        | 15,000                                     | 142,444   | 10.5                                  | 13,304                              | 126,708             | 10.5      |
| <u>~</u>     |                       | 48,614                                      | 134,238   | 37       | 38,231                                     | 166,308   | 23.0                                  | 66,529                              | 286,080             | 25.0      |
|              | . VALENZUELA          | 21,060                                      | 160,841   | <b>=</b> | 157,500                                    | 290,552   | 5.75                                  | 187,027                             | 340,050             | 55.0°     |
| <u> 2</u>    | TOTAL                 | 1,645,807                                   | 6,112,712 | 27       | 2,275,180                                  | 6,942,207 | 32.8                                  | 2,805,579                           | 7,928,867           | 35.4      |
| 1            |                       |   |           |          |  |           |                                       |                                     |                     |           |

BLIGHTED POPULATION PROJECTION, NCR TABLE 6.1.9

| <del></del> |                              |                                       |                              |
|-------------|------------------------------|---------------------------------------|------------------------------|
| <br>  YEAR  | TOTAL POPULATION (Thousands) | GROSS BLIGHTED POPULATION (Thousands) | % OF THE TOTAL<br>POPULATION |
| 1985        | 6,942.21                     | 2,275.18                              | 32.8                         |
| 1986        | 7,036.55                     | 2,305.09                              | 32.7                         |
| <br>  1987  | 7,244.38                     | 2,414.25                              | 33.3                         |
| <br>  1988  | 7,462.03                     | 2,533.21                              | 33.9                         |
| 1989        | 7,690.01                     | 2,663.38                              | 34.6                         |
| 1990        | 7,928.87                     | 2,805.57                              | 35.4                         |
| 1995        | 8,971.80                     | 3,172.40                              | 35.4                         |
| 2000        | 9,948.98                     | 3,512.38                              | 35.3                         |
| 2005        | 10,847.65                    | 3,820.59                              | 35.2                         |
| 2010        | 11,649.61                    | 4,091.27                              | 35.1                         |
|             | <u> </u>                     |                                       |                              |

Source:

NHA-CORPLAN STUDY TEAM

(1985-1990) (1995-2010)

TABLE 6.1.10 PER CAPITA INCOME GROWTH (%)

| YEA  | R PE   |        | NCOME GROWTH |
|------|--------|--------|--------------|
|      |        | (%)    |              |
| •    | 0      | SECTOR |              |
| 1    | 2      | 3      | ·            |
| 1987 | -1.37  | -1.37  | 0.00         |
| 1988 | -3.95  | -3.95  | 0.00         |
| 1989 | -7.37  | -7.37  | 0.00         |
| 1990 | -9.17  | -9.17  | 0.00         |
| 1991 | 14.72  | 14.72  | 0.00         |
| 1992 | -17.64 | -17.64 | 0.00         |
| 1993 | -1.22  | -1.22  | 0.00         |
| 1994 | -1.43  | -1.43  | 0.00         |
| 1995 | 1.49   | 1.49   | 0.00         |
| 1996 | 3.11   | 3.11   | 0.00         |
| 1997 | -3.01  | -3.01  | 0.00         |
| 1998 | -2.92  | -2.92  | 0.00         |
| 1999 | -3.00  | -3.00  | 0.00         |
| 2000 | -12.31 | -12.31 | 0.00         |
| 2001 | -1.28  | -1.28  | 0.00         |
| 2002 | -1.18  | -1.18  | 0.00         |
| 2003 | -1.08  | -1.08  | 0.00         |
| 2004 | -1.00  | -1.00  | 0.00         |
| 2005 | -0.91  | -0.91  | 0.00         |
| 2006 | -0.84  | -0.84  | 0.00         |
| 2010 | -0.56  | -0.56  | 0.00         |

<sup>1.</sup> General Population

Source: MWSS (CORPLAN)

<sup>2.</sup> Urban Development Beneficiaries

<sup>3.</sup> Blighted Population

TABLE 6.1.11 GROSS DOMESTIC PROJECT (GDP), NATIONAL CAPITAL REGION

| 1 /  |         | RIAL        |       |                |
|------|---------|-------------|-------|----------------|
| YEAR | GDP (M) | GROWTH RATE | GDP ( | M) GROWTH RATE |
| 1983 | 16645   |             | 15586 |                |
| 1984 | 15022   | -9.75       | 13901 | -10.81         |
| 1985 | 13840   | -7.87       | 13185 | -5.15          |
| 1986 | 13640   | -1.45       | 13093 | -0.70          |
| 1987 | 14669   | 7.54        | 13539 | 3.41           |
| 1988 | 15431   | 5.19        | 14663 | 8.30           |
| 1989 | 16430   | 6.47        | 15480 | 5.57           |
| 1990 | 17844   | 8.61        | 16405 | 5.98           |
| 1991 | 18605   | 4.23        | 17340 | 5.70           |
| 1992 | 19651   | 5.62        | 17956 | 3.55           |
| 1993 | 20653   | 5.10        | 18767 | 4.51           |
| 1994 | 21650   | 4.83        | 19638 | 4.64           |
| 1995 | 22687   | 4.79        | 20467 | 4.22           |
| 1996 | 26729   | 4.60        | 21298 | 4.06           |
| 1997 | 24710   | 4.13        | 22114 | 3.83           |
| 1998 | 25728   | 4.12        | 22909 | 3.60           |
| 1999 | 26741   | 3.94        | 23735 | 3.60           |
| 2000 | 27755   | 3.79        | 24563 | 3.49           |
| 2001 | 28773   | 3.67        | 25383 | 3.34           |
| 2002 | 29787   | 3.53        | 26203 | 3.23           |
| 2003 | 30797   | 3.39        | 27020 | 3.12           |
| 2004 | 31811   | 3.29        | 27838 | 3.03           |
| 2005 | 32825   | 3.19        | 28660 | 2.95           |
| 2006 | 33839   | 3.09        | 29481 | 2.86           |
| 2007 | 34853   | 3.00        | 30300 | 2.78           |
| 2008 | 35867   | 2.91        | 31120 | 2.70           |
| 2009 | 36880   | 2.83        | 31939 | 2.63           |
| 2010 | 37894   | 2.75        | 32759 | 2.57           |

Note:

- (1) Data for 1983 to 1985 were estimates as of June 1986 and were taken from NEDA.
- (2) Projections for 1987 to 1992 were obtained from Projections of Regional Development Plans 1987-1992.
- (3) Projection for 1993 to 2010 were estimates made by the Study Team.

TABLE 6.1.12 ESTIMATED AREA BY LAND CATEGORY, ANTIPOLO AREA, 1991

|               | BUILT-UP                    | COMPRESIAL | INDUSTRIAL                              | OPEN SPACE | . ACRICULTURAL | FOREST                           | OTHERS | LAND AREA |
|---------------|-----------------------------|------------|---|------------|----------------|----------------------------------|--------|-----------|
|               | fuctivational<br>Facilities |            |   | • • • • •  | Cropland       | Forest<br>Grassland<br>Shrubland | Quarry |           |
| 1             |                             | ~          |   |            |                | Pasture                          |        |           |
| Bagong Nayon  | 69.1                        | • ••       | 2.9                                     | 36.2       | 44.0           | 157.1                            | 10.0   | 319.2     |
| Sta. Cruz     | 115.0                       |            | - : 0                                   | 9.71.6     | \$ \$5.0       | 385.0                            |        | 178.4     |
| De la Paz     | 0.05                        |            | - ; s:                                  | 134.6      | 1 72.0         | 156.2                            | 1      | 120.6     |
| beverly Hills | 20.0                        | 100        | • · · · · · · · · · · · · · · · · · · · | 7.0        | ***            |                                  | 1      | 31.4      |
| San Rodue     | 0.50                        |            | 2.0 ; 5.0                               |            | 87.0           | 117.0 ;                          | 1      | 380.4     |
| Dalie         | 85.0                        |            | 0.8 ; 6.0                               |            | 100.5          | 65.3                             | 1      | 332.6     |
| San Jose      | 55.0                        |            | 2,0 ; 3.6                               |            | 30.3           | 1 6.80                           |        | 270.0     |
| San Isidro    | 43.                         |            |   |            | 57.0           | 10.941                           |        | 360.8     |
| San Luis      | 10.0                        |            | 1                                       | 13.6       | 30.0           | 180.0                            | 1      | 233.6     |
|               |                             |            |   | ·          |                |                                  | ~ •    |           |
|               |                             | ٠.         |   |            |                |                                  |        |           |
| Taytay        | 115.2                       |            | 0.10                                    | 122.6      | 41.8           | 177.0 :                          | . ,    | 764.8     |
| Angone        | 15.0                        |            | 10.8                                    |            | 119.0          | 665.2                            | 30.0   | 935.0     |
| Binangonan    | 8.3                         | · 1        | 1.0                                     |            | 9:01           | 117.2                            |        | 141.0     |
| Teresa        | ,                           | 1          | 1                                       | 6.0        | 24.2           | 1 0.28                           |        | 120.0     |
|               |                             |            |   |            |                |                                  |        |           |

TABLE 6.1.13 ESTIMATED AREA BY LAND CATEGORY, ANTIPOLO AREA, 2020

| BARANGAY/     |  |            |            | LAND USE   | ш<br>::   |  |             |                    |
|---------------|--|------------|------------|------------|---|--|-------------|--------------------|
| שמוכוגאדוו    | BULT-UP Residential   Institutional   Facilities | COMPERCIAL | INDUSTRIAL | OPEN SPACE | ASRICULTURAL<br>Ricefield<br>Cropland<br>Plantation | FOREST/ GRASSLAND Forest Grassland Shrubland Pasture | 93468       | LAND AREA<br>(Ha.) |
| Second Nevan  | 118.0  | 0.00       |            | 20.1       | 29.2  | 135.6  | 12.4        | 319.2              |
| Sta. Cruz     | 298.5  | 2.0        | 1          | 134.0      | 58.6  | 285.3  | 1           | 778.4              |
| De la Paz     | 151.2  | 3.6        | ı          | 95.8       | 35.0  | 135.0  | ,           | 420.6              |
| Beverly Hills | 29.6   | ,          | 1          | 1          | 8.  | ,  | 1           | 31.4               |
| San Roque     | 158.6  | 4.0        | 0.9        | 61.8       | 42.8  | 97.2   | 1           | 380.4              |
| Delig         | 155.5  | 3.2        | 6.0        | 28.2       | 88.5  | 51.2   | 1           | 332.6              |
| San Jose      | 114.0  | 3.8        | 5.5        | 15.4       | 56.5  | 8.69   | t           | 270.0              |
| San Isridro   | 108.4  | <br>       | 0.1        | 54.2       | 38.4  | 155.3  | ı           | 3.036              |
| San Luis      | 32.7   | J          | 1          | 8,8        | 26.5  | 165.6  | ı           | 233.6              |
| Tavtav        | 224.4  | 1          | 0          | 55         | 2.00  | 1  | ı           | 764.8              |
| Angano        | 130.5  | 1          | 15.2       | 20.02      | 145.2   | 597.7  | 26.4        | 935.0              |
| Sinangonan    | 10.5   | 1          | 6.4        | 1          | 10.6  | •  | ı           | 141.0              |
| Teresa        | 2.0  | ,          | · .        | 1          | 24.0  | 8.8  | 1<br>2<br>2 | 120.0              |
| TUTAL         | 1,543.9  | 24.0       | 48.1       | 501.7      | 616.3   | 2,315.0  | 38.8        | 5,087.8            |

TABLE 6.2.1 NUMBER OF CONNECTIONS AND BILLED CONSUMPTION IN 1990

| NAME   15,052   14,152   101    |                         | -                   |              |
|---|-------------------------|---------------------|--------------|
| Maria   Mari    | IND. OTHERS             | S TOTAL             | TOTAL        |
| MARILIA   155,052   68   14,142   707   88   75,898,344   25,1811   42,132   41,183   41,18    | 1. 24,781,109 1,442,796 | 136. 413,399,174    | 97.4         |
| TITE 25,007 133 1,997 151 8 19,188,494 82,164 53,012,881 499,552 2780 (CITT 1,725 16 10,225 17 112 25,012,881 494 82,164 513,125 17 125 118,720 118,012 18 12,125 118,720 118,012 18 12,125 118,720 118,012 18 12,125 118,012 18 12,125 118,012 18 12,125 118,012 18 12,125 118,012 18 12,125 118,012 18 12,125 118,012 18 12,125 118,012 18 12,125 118,012 18 12,125 118,012 18 12,125 118,012 18 12,125 118,012 18 11  | 1.760.534               | 913.457 124.284.877 | 29.3         |
| 147,226   | 292,085                 |                     |              |
| CANTES  CLATE  44,673  41,235  8 336  32 39  1,822,472  13,573  11,573  11,573  11,573  11,573  11,573  11,573  11,573  11,573  11,573  11,573  12,544  13,544,412  13,544,412  13,544,412  13,544,412  14,650  14,650  15,544,412  17,734  18,1734  1  | 5,762,759. 46           | 1_                  | . 52         |
| 1,533   8   315   32   1982,472   13,573   1982,472   13,573   1982,472   13,573   1982,472   13,573   1982,472   13,512   1,423   1,133   257   4   5,469,412   15,100   16, 246,912   15,100   16, 246,912   15,100   16, 246,912   15,000   16, 25,034   1,23   1,315,447   1,23   1,315,447   1,23   1,315,447   1,23   1,315,447   1,23   1,315,447   1,23   1,315,447   1,23   1,315,447   1,23   1,315,447   1,23   1,315,447   1,23   1,315,447   1,23   1,315,447   1,23   1,315,447   1,23   1,315,447    | 2,973,311               |                     | ń            |
| 10,210   5 3,889   294   8 22,351,210   7,455   15,31     13,45   19   1,123   257   4 5,453,861   51,006   1,651     13,55   17   126   3   13,818,72   95,044   12,818,72     13,55   17   126   3   13,818,72   95,044   1,24     13,55   17   1,045   168   31   11,818,990   45,118   30,24,43   95,1    | 38,085                  |                     | <u>.</u>     |
| 18,012   19 889 358   | 1,494,580               | 5,532 39,172,530 ;  | <b>.</b>     |
|   | 1,923,024               |                     | ~;           |
| 1, 28, 216   23   1,288   503   3   1318,472   45,034   1,28   13,735,472   0   15,735   0   136   13   13,734   10   0   13,735   17   1,045   18   19   18   19   18   19   18   19   18   19   18   19   18   19   18   19   18   19   18   19   18   19   18   19   18   19   19  | 2,508,080               |                     | **           |
| 1,550   0   106   11   35   1,315   147   19   11,550   19   19   19   19   19   19   19   1  | 452,522                 |                     | ***          |
| 13,795   6   471   126   3   1,14,442   19,807   2,113,852   17   1,945   168   3   1,118.0   187   45,118   3,018   2,349   21   1,105   266   1   15,810,104   45,118   3,018   2,349   2,349   2,349   2,349   2,349   3   1,251   3   1,252   3   1,251   3   1,252   3   1,252   3   1,252   3   1,252   3   1,252   3   1,252   3   1,252   3   1,252   3   1,252   3   1,252   3   1,252   3   1,252   3   1,252   3   1,252   3   1,252   3   1,252   3   1,252   1,252   3   1,252   1,252   3   1,252   1,    | 1,704                   | _/<br>/             | 0.3          |
| 13,552  | 650, 139                | 1,343 4,540,989     |              |
| 1,105   266   11   15 810,304   45,118   3,0     12,531   | 539,814                 | ÷                   |              |
| 2,349   | 2,500,759               | 1,088 21,457,421    |              |
| 12,851  |                         |                     | 6            |
| LA 15,077 6 775 283 2 5,056,998 10,072 7 500 11 1188,990 7 650 11 1188,990 7 650 11 1188,990 7 650 11 1188,990 7 650 11 11 1188,990 7 650 11 11 1188,990 7 650 11 11 11 11 11 11 11 11 11 11 11 11 11   |                         |                     | ~ •          |
| 15,077   6   775   223   2   5,045,958   10,072   7   7   7   7   7   7   7   7   7   |                         | 216, 11, 315, 913   | <b>.</b>     |
| CHYTE 16,879 17 721 53 1,225 4,304,555 43,328 3  CHY 7,801 5 132 3 58 941,633 19,813  CHY 7,801 8 338 32 218 1,982,973 17,093 2  3,055 4 19 653 854,472 0  4 507 0 54 6 1 284,472 0  23 2,24 119,88,973 17,093 2  1,2234 11,348 0  4 14,45 1 223 41 3 1,316,197 1,415 1  1,445 1 223 41 3 1,316,197 1,415 1  1,445 1 223 41 3 1,316,197 1,415 1  1,445 1 223 41 3 1,316,197 1,415 1  1,503 2 134 26 8 395,747 4,142 1  1,503 3,678 4 107 47 0 841,283 12,224  | 373,813                 | 565 5,165,377       | <b>∹</b>     |
| CTT 7,881 5 132 3 58 944,683 19,813  CTT 7,807 8 38 32 218 1,982,973 17,099  3,055 4 119 9 653 825,494 6,416  1,055 0 23 2 244 115,446 0  1,055 0 23 2 244 115,446 0  1,145 1 223 41 3 1,316,107 1,416 1  RMAN 1,003 2 134 26 8 995,747 4,142 1  RM 2,035 0 36 10 3 545,674 0  880 3,678 4 107 47 0 841,283 12,224  | 318,818                 | 336,131 5,111,901   | 1.2          |
| CTIT 7.807 8 388 32 218 1,982,973 17,099 2 3,000 3,055 4 119 9 653 52,494 6,416 0 55 1 17,046 0 1 17,046 0 2 5 1 104 117,046 0 0 5 1 17,046 0 0 1 17,046 0 0 1 17,046 0 0 1 17,046 0 0 1 17,046 0 0 1 17,046 0 0 1 17,046 0 0 1 17,046 0 0 1 17,046 0 1 17,046 0 1 17,046 0 1 17,046 0 1 17,046 0 1 17,046 0 1 17,046 0 1 17,046 0 1 17,046 0 1 17,046 1   | 485                     |                     |              |
| A 555 4 119 9 553 825,494 5,415  A 507 0 23 2 1 117,648 0 0 23 2 249 157,085 0 0 0 23 2 249 157,085 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | 15,886                  | 56,740 2,310,879    | 9.5          |
| A 505 4 119 9 653 825,494 6,416  507 0 5 1 104 117,846 0  11. RIZAL 17,116 9 654 180 15 4,892,593 27,582 6  10. 1445 1 223 41 3 1,316,107 1,416 1  10. 1445 1 223 41 3 1,316,107 1,416 1  10. 1445 1 223 41 3 1,316,107 1,416 1  10. 1445 1 107 47 0 841,283 12,224  10. 145 1 107 47 0 841,283 12,224  | 1,179                   |                     | 1.0          |
| 1   | 10,754                  | ż                   | 2:0          |
| T. RIZAL  | 300                     | 28,112 147,852      | 99           |
| T. RIZAG  |                         | 54,633 218,976      | <u>~</u>     |
| NAME 1,445 1 223 41 3 1,316,197 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416 1 1 1,416   | 635,331                 | 2,307 6,087,844     | . <b>.</b> : |
| NAME  |                         |                     |              |
| NAM 1,003 2 134 26 8 395,117 5,112 1<br>NAM 2,035 8 36 10 3 516,674 0 516,674 | 4 570,630               | 481 2,081,188       | 0.5          |
| NAM 1,003 2 134 26 8 395,147 4,142 1.04   |                         | •                   |              |
| 1,117   |                         | 1 276 1 126 121     |              |
| 18.4 2,035 0 36 10 3 546,674 0 0 18.4 10.7 47 0 841,233 12,224  | 2016                    | •                   | · .          |
| 544, 574 0 3, 575 4 107 47 0 841, 233 12, 224   | • •                     | •                   |              |
| 180 3,678 4 107 47 0 841,283 12,224   | 5,022                   | 140 565,531         |              |
| 180 3,578 4 107 47 0 841,283 12,224   |                         | •                   | •            |
| 107 47 0 0 011,653 12,624   |                         | 666                 | ' - °        |
| CAG A COM ACC. A COM ACOM ACC. A COM ACC. A   | 160°11 7                | 676 nee A           | 9            |
| 2104111 non-n 701-22111 1 00 101 2 108-1  | 9 21,823                | 111 1,348,135       | 6.3          |
| . <u>2.</u> .   |                         | •                   | • .          |
| 7071.   | 1 25,436,258 1,781,234  | ,234 424,598,919    | 100.0        |

TABLE 6.2.2 STATUS OF DOMESTIC WATER SUPPLY BY MWSS AND PRIVATE SYSTEMS

| Part      | Control   Article   Period Designation   Period Period   Period Designation   Period Design |   |
|--|--|---|
| 1847   114   1,519   42   224,523   24   124     | March   Marc | CONSUMPTION CONNECTIONS   |
| No.   11   11   12   13   14   14   14   14   14   14   14   | No.   11.   1.519   642   224,531   2.18   17.5   18   4.585,530   52.5   17.55,536   52.1   52.11,585,530   52.1   52.11,585,530   52.1   52.11,585,530   52.1   52.11,585,530   52.1   52.11,585,530   52.1   52.11,585,530   52.1   52.11,585,530   52.1   52.11,585,530   52.1   52.11,585,530   52.1   52.11,585,530   52.1   52.11,585,530   52.1   52.11,585,530   52.1   52.11,585,530   52.1   52.11,585,530   52.1   52.11,585,530   52.1   52.11,585,530   52.1   52.11,585,530   52.1   52.11,585,530   52.1   52.11,595,530   52. | 4KOUNT X TO KUMBER 1 KO. OF (83/0) TOTAL   POPULATION (2) (3) (4) (5) |
| 11.5      | 11.5    | 755,690   56.8   587,778   4,761,002                                  |
| 177.5   154   15   | 11.0    | 207,941 26.6 155,052 1,255,921  |
| 11.0   14   17.0   14.0   15   | 11.1   11.1   12.1    | 1,193,341   |
| 15.    | 18.0    | 191   |
| 15.5   15.6      | 11.2   128 | 325 701   |
| 153.   154.   150.   150.   151.      | 1813   1814   1810   181   1814   1814   1814   1814   1815   1814   1815   1814   1815   1814   1815   1814   1815   1814   1815   1814   1815   1814   1815   1814   1815   1814   1815   1 | 2.2 18 012 145,691  |
| 18.   18.   20.   23   11.17   3.6   23.1   26   240.50   17.5   5.40   277.252   17.5   17.11   17.   | 10.0   10.1   10.0   10.1    | 172,895   |
| 18.    | 18.0   18.0   18.1    | 165 11 502 5 19 10 10   |
| 15.2   15.0   12.1   17   8.522   2.7   15.2   15.5   15   | 131.3   130   121   11   12   10,206   2.6   12.1   13   274,509   65.1   9.25   1,012   1.0   19.5   19. | 111,750   |
| 90.5 299 - 20  | 90.5 299 - 6 0.0 0 19,021 310,020  | 264,303   |
| 257.2         249         125         1,688         1.1         12.1         15.4         15.5         1,616         1.6         1.1         1.6         1.1         1.6         1.1         1.6         1.1         1.6         1.1         1.6         1.1         1.6         1.1 <t< td=""><td>227. 249 125 12 1 1,148 9.1 1 12.1 13 101,981 68.2 1.25 1,012 1.0 10 108,932 13.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 14.2 14.2 14.2 14.2 14.2 14.2 14</td><th>2 0.2 2,349 19,027</th></t<>   | 227. 249 125 12 1 1,148 9.1 1 12.1 13 101,981 68.2 1.25 1,012 1.0 10 108,932 13.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 13.2 14.2 14.2 14.2 14.2 14.2 14.2 14.2 14   | 2 0.2 2,349 19,027  |
| 15.2   12.   2.   1.05   0.2   1.1   1.5   0.2   1.2   1.5   | 13.2   12.   2.   1.   1.   1.   1.   1.   |   |
| 36.6         95         119         11         6,242         1.6         14.4         16         144,395         11.6         6,884         260,351         18.2         604,719           45.2         3         2,430         1.5         12.0         13         11.2         11,60         11.2         11.2         11.2         11.6         11.2         11.6         11.2         11.6         11.2         11.6         11.2         11.6         11.2         11.6         11.2         11.6         11.2         11.6         11.2         11.6         11.2         11.6         11.2         11.6         11.2         11.6         11.2         11.6         11.2         11.6         11.2         11.6         11.2         11.6         11.  | 186.6   '95   '119   11   8,120   114   116   114,135   11.6   6,884   280,351   18.2   694,719     182.1   90   54   5   2,430   15.2   12.0   13   61,125   13.2   3.9   4,711   12.1   12.4   13.81     186.2   116   116   12   4   1,344   4.1   13   13.81   13.2   13.81   13.2   13.81     18.6   106   12   4   1,344   4.1   3.0   10   26,509   15.9   12.82   13.12   13.81     18.6   106   12   4   1,344   4.1   3.0   1.0   26,509   13.9   13.2   13.2   13.2     18.6   105   12   2   3,124   0.0   -   |   |
| 15.21   10.0   1   | # 52.1   | 11,193 1.5 16,879 135,133 28,8  |
| 15.5      | 15.5   54   47   6   | 1 20 2  |
| 116  | 116  | 1,801   |
| 18.6   105   105   10   0   0   0   0   0   0   0   0  | 18,6   86   10   0   0   0   0   0   0   0   0   | 0.3 1 3,054 24,746  |
| 96.1         105         76         3.436         0.3         23.5         142,115         (1.6         65,171         132,061         21.5         504,755           100.1         110         4         1         54         0.0         11.8         75         56,055         11.3         25,357         161,150         62.1         199,205           112.2         122         12         11         54         0.0         11.1         13         25,256         15.3         5,273         31,517         15.5         16,515           11.2         12         11         11         13         25,286         15.3         5,273         31,517         17.5         16,205           11.2         12         11         11         13         25,286         15.3         5,273         31,517         17.5         16,412           11.2         12         11         13         25,286         15.3         5,273         31,517         17.1         19,422           11.7         13         27.5         3         12,486         13.5         14,244         23,578         77.1         14,246           11.7         3         4         1.12         <   | 96.1         105         76         9         3,216         0.1         21.5         26,055         11.7         11.2         25,216         11.2         25,216         11.7         12.5         11.7         12.5         11.7         12.5         11.7         12.5         11.7         12.5         11.7         12.5         11.5         11.7         12.5         11.7         12.5 <th< td=""><th>122 0.0 507 4,101 20.1 417 20.1 417 20.1</th></th<>   | 122 0.0 507 4,101 20.1 417 20.1 417 20.1                              |
| 100-1   110   4   1   54   5.0   11.8   75   56,055   11.3   23,587   163,150   82.1   139,205   13.2   13.5   1   | 100-1   110  | 119,499   |
| 100.1   110   4   1   54   5.0   71.8   75   56,055   17.3   29,567   15,150   68.2.   199,205   172.2   123   12   12   12   12   12   12   | 112.2   123   13   2   972   0.6   11.7   13   25,045   11.3   13,156   16 |   |
| 12.2   12   11   2   372   0.6   11.7   13   25,256   15.5   9,273   51,516   15.5   16,513   17.2   19,422   17.2   19,422   17.2   19,422   17.2   19,422   17.2   19,422   17.2   19,422   17.2   19,422   17.2   19,422   17.2   19,422   17.2   19,422   17.2   19,422   17.2   19,422   17.2   19,422   17.2   19,422   17.2   19,422   17.2   19,422   19,232   17.3   17.3   17   | 112.2   123   111   2   172   0.5   11.1   13   25,256   15.5   5,273   51,517   75.5   16,813   19.7   10.5   0   0   0 0.5   0   0   0 0.5   0   0   0   0   0   0   0   0   0   | 1 190 28 002 1  |
| 84.2 100 0 0 0.0.0 15,304 23.7 4,244 23,578 72.1 29,422  84.2 100 0 0.0.0.0 15,004 23.7 4,244 23,578 72.1 29,422  84.2 100 0 0.0.0.0 15,004 23.7 4,244 23,578 72.1 29,422  84.2 100 13 13 14 1,218 1.5 27.5 30 12,481 33.5 1,647 14,706 19,711 3 24,52  195.11 112 27 2 17 0.1 27.6 1.0 32,975 23.1 13,640 109,111 3 24,51 266  155.0 170 4,113 488 226,010 2.5 17.4 13 5,222,644 56.3 178,970 11,977,941 30.6 17,250,55   | #1.2 100 0 0 0 0.0.0 15,504 23.1 4,244 23,518 31,517 515.3 18,412 110.0 10.0 1 0.0.0 1 0.0.0 15,504 23.1 4,244 23,518 312.1 19,422 110.2 1 1 2 1 2 110.0 1.2 1.5 30 32,438 33.5 24,1 14,607 14,106 50.2 41,135 110.1 112 21 2 11.2 21 2 11.2 21 2 11.2 21 2 11.2 21 2 11.2 21 2 11.2 21 2 11.2 21 2 11.2 21 2 11.2 21 2 11.2 21.2 21.3 22,438 23.2 23,1 14,607 110.1 112 21 2 11.2 21 2 11.2 21.2 21.2   | 0.1 3.003   |
| 91.2         100         0 <td>94.2 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <th></th>   | 94.2 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   |   |
| 13.7   31   33   4   1,225   1.5   27.5   39   12,435   33.5   1,667   14,106   50.2   41,135   102.41   112   27.5   23.5   2   | 13.7   81   33   4   1,215   1.5   27.5   30   32,486   33.5   16,706 * 50.2   47,187   192.4   112   22   23.2   27.5   30   32,486   23.1   19,60   105,111 * 3.1.5   12,086   135.0   17,187   135.0   170    | 0.2 2 2,039 1 15,904  |
| 102-1 112 21 2 912 0-3 27-5 30 32,481 33.5 2,667 14,106 150.2 41,185 102.1 113. 2 12. 2 12. 2 12. 2 13. 2 12,915 23.1 13,600 109,111 3 34.5 122,068 105.0 109,111 3 34.5 122,068 105.0 109,111 3 34.5 122,068 105.0 109,111 3 34.5 122,068 105.0 109,111 3 34.5 122,068 105.0 109,111 3 34.5 122,068 105.0 109,111 3 34.5 122,068 105.0 109,111 3 34.5 122,000 109,111 3 34.5 1 | 11.7 8 33 4 1,218 1.5 27.5 30 32,481 38.5 2,667 16,706 50.2 47,187 102.1 11.2 27 2 37 0.1 22,975 23.1 18,569 105,111 3 34.5 12,065 11.3 11.3 11.3 11.3 11.3 11.3 11.3 11.  |   |
| 112 27 2 372 0.1 27.6 10 32,975 29.1 19,640 109,111 a 84.5 112,085 170 4,113 488 226,010 2.5 17.4 12 5,272,644 56.2 1378,910 11,977,941 10.6 17,250,555  | 112   27   2   372   0.1   27.6   10   32,915   29.1   19.640   109,111   24.5   152,085   172 | 0.3 3 5.578 31,263  |
| 110 4,113 488 216,010 2.5 17.4 19 5,275,614 56.1 378,910 11,977,94   | 110   4,113   488   236,010   2.5   17.4   18   5,275,644   56.1   1379,910   1,977,941   30.6   7,250,555   300   14,1577,941   30.6   7,250,555   300   14,1577,941   30.6   7,250,555   300   14,1577,941   30.6   7,250,555   300   14,1577,941   30.6   7,250,555   300   14,1577,941   30.6   7,250,555   300   14,1577,941   30.6   7,250,555   300   14,1577,941   30.6   7,250,555   30.6   30. |   |
| 170 4,113 488 236,010 2.5 17.4 19 5  | 110  |   |
|  | •  | 780,488 1100.0 [ 621,773   5,038,534 ] 5.                             |

TABLE 6.2.3 STATUS OF COMMERCIAL CONSUMPTION IN 1990

TABLE 6.2.4 STATUS OF INDUSTRIAL CONSUMPTION IN 1990

| NATIONAL   CORRECTED   X TO   CONVECTED   MAJORY   MAJO   |                |                           | AVG. DAILY<br>MWSS INDUSTRI | AL                 | LLED<br>CONSUM. | NUMBER<br>OF                                 | CONSUMP<br>METER C | CONSUMPTION PER<br>METER CONNECTION   | PRIVATE                         | ESTIMATED                  | 98    | SHARE<br>OF            |
|--|----------------|---------------------------|-----------------------------|--------------------|-----------------|--|--------------------|---------------------------------------|---------------------------------|----------------------------|-------|------------------------|
| March   Marc   | ا              | TTY/MUNICIPALITY          | BILLED<br>(M3/DAY)          | CORRECTED (M3/DAY) | * TO<br>TOTAL   | CONNECTION                                   | BILLED<br>(M3/DAY) | CORRECTED<br>(M3/DAY)                 | _                               | CONS.<br>(M3/DAY)          | TOTAL | PRIVATE<br>WELL<br>(%) |
| Hamilatory (city for first for first for first for first for for first for f | :              | NCR                       | 1,79                        | (m)                | 9               | ,29  | 41                 | 2.93                                  | 80,6                            | 62                         |       | 77.5                   |
| Table No. 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | <u> </u>       | Kanila                    | , 2, c                      | 7,                 | 6               | 795  | 55                 | .16                                   | 178                             | 3,4                        | 5.3   |                        |
| Calcoken City [17] [17] [17] [17] [17] [17] [17] [17]  | v m            | Pasay City<br>Ouezon City | 7.05                        | ø                  |                 |  | •                  | 4.6                                   | 3,37                            | ď                          | 0.0   | 00 0                   |
| Hekenis 4,110 4,658 6.2 951 12.702 2.0,959 21,115 4.8 99 Hekeni 4,110 4,110 4,658 6.2 97 12 309 15,423 3,983 81,041 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0  |                | Calookan City             | 8,17                        | ົດ                 | 1 **            | •  | •                  | . 8                                   | 4.66                            | - 0                        | 9 67  | 40                     |
| Market   M   | ıc t           | Las Pinas                 | FT :                        |                    |                 | 51   | c)                 |                                       | 6,0                             | -                          | 4     | O                      |
| Marchenge  | 0 -            | Makatı                    | Ξ.                          | •                  | in i            | 302  | 90                 | 5.42                                  | ص <u>.</u>                      | ő١                         | φ, I  |                        |
| Martinia         1241         1,466         1,76         2,452         2,773         6,523         34,250         1,29         1,29         1,24         1,76  | &              | Mandaluyong               |                             | 2 -                | - c             | 200  | 20.00              | 95.0                                  | 4. r.<br>r. c.                  | ŭ -                        | 4 6   |                        |
| Mautainiupa 1771 80 0.11 106 0.667 0.766 34,280 34,380 34,980 77.8 99 92 1 Martanque 1,482 1,679 2.0 1 171 8.666 9,521 11,770 11,91 11,170 11,128 1,070 11,09 11,00 11,09 11,00 11,09 11,00 11,09 11,00 11,09 11,00 11,09 11,00 11,09 11,00 11,09 11,00 11,09 11,00 11,09 11,00 11,09 11,00 11,09 11,00 11,09 11,00 11,09 11,00 11,0 | ő              | Merikina                  |                             | 4                  | 7               | 2000   | 2.45               | 2.5                                   | . დ                             | . 0                        | 0 0   |                        |
| Maranague 1,785 2,023 2.4 129 18.866 9.831 17.69 19,772 4.6 Passing Paranague 1,785 2,029 3.6 177 26,734 29.165 60,077 86,166 15,5 88 28.0 1 1,020 1.4 147 7.201 8.166 9.831 17.69 1,200 1.4 147 7.201 8.166 60,077 86,166 15,5 88 28.0 1 1,020 1.4 1.4 147 7.201 8.166 1.4 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6  | 0.             |                           | 71                          | œ                  | 0               | 106  | .66                | .75                                   | 8                               | 6.                         | 80    |                        |
| Pasiers 7,122 8,079 9.6 277 25.734 29.821 1.051 1.957 1.052 8.00 0.4 99 9.6 24.0 1.059 1.000 1.4 1.059 1.000 1.4 1.059 1.000 1.4 1.000 1 | 16             |                           | 1,785                       | 0,0                | 4.0             | 120  | 8                  | ဖ္ဖ                                   | 5.0                             | E (                        | •     |                        |
| Pateros         1,053         1,204         0.0         3         1,087         1,175         1,766         1,4         99           San Junn         San Junn         1,053         1,204         1,204         147         7.021         1,175         1,766         1,4         99           Valenterela         1,026         1,126         1,24         0.0         1,25         0.2         1,25         0.3         1,4           Valenterela         1,014         1,149         1,4         1,346         0.753         0.853         5,889         7,037         1,6         35           Cavite         1,014         1,149         0.0         0.0         0.75         0.0         0.   |                |                           | 7.128                       | 0 0                | 9 0             | 171  | о.<br>100          | 20.0                                  | ŏς                              |                            | 4, 17 |                        |
| Sam Jan         1,059         1,200         1,47         7,201         8.161         4,158         1,259         0.3         1,4         1,059         1,202         1,202         1,203         1,259         0.3         1,049         4,1798         4,1798         0.3         1,049         1,126         0.3         1,049         4,1798         4,1203         0.3         1,014         1,162         1,162         1,162         0.3         1,163         0.3         1,163         0.3         1,163         0.3         1,163         0.3         1,163         0.0 </td <td>7</td> <td>Pateros</td> <td></td> <td></td> <td>0</td> <td>- m</td> <td>1.03</td> <td></td> <td>Ž [-</td> <td>10</td> <td>. d</td> <td></td>   | 7              | Pateros                   |                             |                    | 0               | - m  | 1.03               |                                       | Ž [-                            | 10                         | . d   |                        |
| Taguis Carterine I,026 I,189 0.0 0 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6   | 12             | San Juan                  | 1,059                       | 1,200              | 4               |  |                    |                                       |                                 | · Ν                        |       | 4                      |
| CAVITE         1,014         1,162         1,162         1,162         1,164         1,164         1,164         0.753         4.079         26,600         27,653         6.83         6.89         7,037         1.6         38           Baccor         1,014         1,149         0.76         0.763         0.854         0.854         0.77         0.0         0           Cavite City         20         7         0.0         7         0.0         0.0         0         0.864         0.864         0.874         0.1         0  | 9 1            | Taguig                    |                             | ,                  | 0               | σ ·  | •                  | .04                                   | т,                              | ď                          | 4.6   | 100.0                  |
| CAVITE         1,014         1,149         1.4         1,346         0.753         0.853         5,889         7,037         1.6         83           Baccor         62         70         0.1         61         1.014         1.149         0         70         0.0           Carite City         210         238         0.3         250         0.840         0.952         0         238         0.1         98           Noveleta         78         0.7         672         0.754         0.854         0.87         0.1         88         0.1         98           Noveleta         78         0.7         672         0.754         0.854         0.87         0.1         88         0.1         99           RAZAL         1,747         1,980         2.3         1.95         8.959         10.153         68,328         70,308         16.0         97           Angono         1,565         1,773         2.1         44         35.561         40.301         12,025         13,788         3.1         87           Biningona         42         48         0.1         34         1.247         1.414         36,173         36,173         1.78   | -              | valenzuela<br>            | Š                           | ا و<br>ا -         | 1 4             | 22 00 1                                      |                    | · •. 1                                | 9                               | -                          | တ     | 8 20                   |
| Baccoor         Cavite City         E2         70         0.1         61         1.014         1.149         0         70         0.0         0         0         0         250         0.840         0.952         0         288         0.1         90           Kawit         507         574         0.0         672         0.754         0.854         0         574         0.1         90           Noveleta         151         171         0.2         251         0.754         0.864         0         578         0.1         90           Noveleta         151         171         0.2         251         0.602         0.682         5,358         5,530         1.3         96           RIZAL         1,747         1,980         2.3         195         8.959         10.153         68.328         70,308         16.0         97           Angono         1,747         1,773         2.1         44         35.561         40.301         12.025         13.798         3.1         87           Antipolo         1,565         1,773         2.1         44         35.561         40.301         12.025         13.798         3.1         2.941  | i l            |                           | 01                          | 14                 | 4               | 34   | . 75               | .85                                   | 88                              | •                          | 1 •   | 83.7                   |
| Tayle City City City City City City City City  | H              | Baccor                    | 62                          | 70                 | 0.1             | 61   | 1.014              | 1.149                                 | 0                               | 70                         |       | 0.0                    |
| Noveleta   Sof   |                | 4                         | 210                         | 238                |                 | 250  | 8                  | .95                                   | 0                               | 238                        | 0.1   | 0                      |
| Noveleta         78         88         0.1         105         0.741         0.840         0.682         5,358         5,358         0.0         0.0         0.0         0.0         0.682         0.682         5,358         0.0   | 0 🔝            | Kawit                     | 507                         |                    | o c             | 213  | 96.                | •                                     | 29<br>29                        | 100 m                      | 000   | ر<br>ش<br>د            |
| Rosario 151 171 0.2 251 0.602 0.632 5,358 5,530 1.3 96  RIZAL 1,747 1,980 2.3 195 8.959 10.153 68,328 70,308 16.0 97  Angono 1,565 1,773 2.1 44 35.561 40.301 12,025 13,798 3.1 87  Baras Jala-Jala 42 48 0.1 34 1.247 1.414 36,173 36,221 8.2 99  Gardona - 42 48 55 0.1 47 1.029 1.166 604 658 0.1 91  Panay 77 87 0.1 57 1.343 1.522 16,586 16,672 3.8 99  Toresa TOTAL 10.00 7,832 9.519 10.788 354,904 439,394 100.0 80   | io i           | Noveleta                  | 20                          | - 60               |                 | 105  | -                  | • •                                   | 0                               |                            | • •   | 0                      |
| Angono Antipolo 1,565 1,773 2.1 44 35.561 40.301 12,025 13,738 3.1 87 87 88 89 89 89 89 89 89 89 89 80 80 80 80 80 80 80 80 80 80 80 80 80   | 1 0            | Rosario                   | 127                         | <b>-</b> 1         | · • . I         | 251  | 9.                 | •                                     | 35                              | ຜ                          |       | 8.96                   |
| Antipolo Antipolo Antipolo Baras Binangonan Antipolo Baras Binangonan Antipolo Baras Binangonan As 1.247 1.414 36,173 36,221 8.2 99 Cardona Jala-Jala Montalban Mortalban Mortalban Mortalban As 1.55 0.1 1.151 1.305 2,941 2,958 0.7 99 Pililla Pililla Panay Tayay Tayay Toral Toral Toral Toral Toral Toral Toral Antipolo As 2.941 2,958 0.1 91 Toral Toral Toral Toral Toral Toral As 2.55 16.586 16,672 3.8 99   | III            | RIZAL                     | ~ 1                         | 1,980              | 1 🕶 1           | 195  | 9.5                | 0.15                                  | 32                              | 0                          | 1 .   | 97.2                   |
| Antipolo 1,565 1,773 2.1 44 35.561 40.301 12,025 13,798 3.1 87 Enras Enras Cardona 42 48 0.1 34 1.247 1.414 36,173 36,221 8.2 99 Cardona Jala-Jala 15 17 0.0 13 1.151 1.305 2,941 2,958 0.7 99 Pilila Pilila 55 0.1 47 1.029 1.166 604 658 0.1 91 Taytay Taytay Total 77 87 0.1 57 1.343 1.522 16,586 16,672 3.8 99 TOTAL TOTAL 74,552 84,490 100.0 7,832 9.519 10.788 354,904 439,394 100.0 80  | -1             | Angono                    | ı                           | 1.                 |                 | <br> <br> <br> <br> <br> <br> <br> <br> <br> |                    |                                       | !<br>!<br>!<br>!<br>!<br>!<br>! | !<br>!<br>!<br>!<br>!<br>! | 1     |                        |
| Darked Bringman  | ٠<br>د د       | Antipolo                  | 1,565                       | 1,773              | 2.1             | 44   | S                  | 0                                     | 2,02                            | 3,7                        | 3.1   |                        |
| Cainte 42 48 0.1 34 1.247 1.414 36,173 36,221 8.2 99 Gardona Jalaa-Jala  15 17 0.0 13 1.151 1.305 2,941 2,958 0.7 99 Mortalban | ) <del>-</del> | Binangonan                | 1 1                         | 1 1                | , ,             | 1 1  | L                  | 1 1                                   | 1 1                             | 1 1                        | i I   | 1 1                    |
| Variana 15 17 0.0 13 1.151 1.305 2,941 2,958 0.7 99 Montalban 15 0.1 1.00 1.3 1.151 1.305 2,941 2,958 0.7 99 11:11a 55 0.1 1.009 1.166 604 658 0.1 91 Taytay Teresa TOTAL 74,552 84,490 100.0 7,832 9.519 10.788 354,904 439,394 100.0 80  | io i           | Cainte                    | 42                          | 48                 | 0 1             | 34   | 1.247              | 1.414                                 | ~                               | •                          | •     | 99.9                   |
| Mortalban         15         17         0.0         13         1.151         1.305         2,941         2,958         0.7         99           Pililla         Pililla         48         55         0.1         47         1.029         1.166         604         658         0.1         91           Taytay         77         87         0.1         57         1.343         1.522         16,586         16,672         3.8         99           Torsesa         TOTAL         74,552         84,490         100.0         7,832         9.519         10.788         354,904         439,394         100.0         80   | 0 6            | Cardona<br>Jala-Jala      | 1 )                         | 1 1                | 1 1             | 1 1  | 1 (                | • • • • • • • • • • • • • • • • • • • | i :                             | 1                          | ı     | 1.                     |
| Morong Pililla Pililla Pililla Pililla Pililla Panay  77   | œ              | Montalban                 |                             | 17                 | 0               | е<br>т                                       | 1.151              | 1.305                                 | 2,941                           |                            | 0.7   | 99.4                   |
| San Mateo     48     55     0.1     47     1.029     1.166     604     658     0.1     91       Taytay     77     87     0.1     57     1.343     1.522     16,586     16,672     3.8     99       Teresa     TOTAL     74,552     84,490     100.0     7,832     9.519     10.788     354,904     439,394     100.0     80  | o -            |                           |                             | ) !                | 1 1             | 1.1  | •                  | :                                     | 1                               | 1                          | 1     | i<br>i                 |
| Taytay Teresa TOTAL TOTA | 11.            |                           | 48                          | Ŋ                  | T.              | 7.4  | 1.029              | 1.166                                 | 604                             | 658                        | 10    | 91.7                   |
| . Taytay 77 87 0.1 57 1.343 1.522 16,586 16,672 3.8 99   | 12             | Tanay                     | 1                           | 1                  | ı               | 1  | ï                  |                                       | 1                               |                            | j.    | r                      |
| AL 74,552 84,490 100.0 7,832 9.519 10.788 354,904 439,394 100.0 80   | 13.            |                           | 77                          | 200                | 년<br>6 1        | 57   | 1.343              | 1.522                                 | é,                              | -                          | •     | 99.5                   |
| 74,552 84,490 100.0 7,832 ; 9,519 ; 10,788 ; 354,904 ; 439,394 ; 100.0 ; 80  |                |                           |                             |                    | 1               |  |                    |                                       |                                 |                            |       | 1                      |
|  | . ¦            | TOTAL                     | 74,552                      | * 1                | 100.0           | 7,832  | 9.519              | 10.788                                |                                 | 39,39                      | 90.   | 80.8                   |
|  |                |                           |                             |                    |                 |  |                    |                                       |                                 |                            |       |                        |

TABLE 6.2.5 PER CAPITA DOMESTIC WATER DEMAND GROWTH

|                      | FOR GE  | FOR GENERAL POPULATION              | ULATION          |                  | i<br>i<br>i |                          | 3<br>1<br>3<br>1<br>1<br>1 | 1<br>1<br>1<br>1<br>1<br>3 |               | FOR  | BLICHTED     | FOR BLICKTED POPULATION | HO              | 1<br>1<br>1<br>1<br>1<br>1<br>1 | !<br>!<br>!<br>! |                                 | 1<br>1<br>1<br>1 | 1<br>1<br>1<br>1<br>1<br>1               |
|----------------------|---------|-------------------------------------|------------------|------------------|-------------|--------------------------|----------------------------|----------------------------|---------------|------|--------------|-------------------------|-----------------|---------------------------------|------------------|---------------------------------|------------------|--|
| ing State            | YZAR.   | (1)<br>(1)                          | [ED]             | [TR1(I)<br>[ (3) | [ TI(I)     | PED (5)                  | IR2(I) (6)                 | IR(I)   (7)                | (8)           | TEAR | PCIG(I)      | []] IBD<br>[ (2)        | TR1(T)<br>  (3) | (1)<br>(4)                      | PB0              | [IR2(I)   [6)                   |                  |  |
| :                    | 1990    | -9.17                               | 0000             | -2.75            | 11.0-       | -0.20                    | 0,15                       | -2.60                      | 1.0000        | 1990 | 0.00         | 1.0                     | 0.00            | 177.0-                          | -0.06            | 0.05                            | 0.05             | 1.0000                                   |
| 121.                 | 1331    | 14.72                               | 0.30             | . <del>-</del>   | -2.53       | -0.30                    | 0.51                       | . 93                       | 1.0492        | 199  | :<br>        |                         |                 | 2.53                            | -0.06            | 0.15                            | 0.15             | 1.0015                                   |
| ित्त चि<br>२००       | 1992    | -17.64                              | 0.30             |                  | ·           | -0.20                    | 0.06                       | -5.23                      | 0.9943        | 1992 | 2 0.00       | 0.11                    | 00.0            | -0.31                           | -0.06            | 0.02                            | 20.0             | 1.0011                                   |
|                      | 1993    | -1.22                               | 0.30             | -0,37            |             | -0.20                    | -0.28                      | -0.64                      | 0.9880        | 199  |              |                         |                 | 1.38                            | 90.0-            | -0.08                           | -0.08            | 1.0009                                   |
| 7 <b>.7</b><br>(3) } | 1994    | -1:43                               | 0:30             | -0.43            | 1.38        | -0.20                    | -0.28                      | -0.71                      | 0.9810        | 199  | <b></b>      |                         |                 | 1.38                            | -0.09            | -0.08                           | 80.0-            | 1.0000                                   |
|                      | 1995    |                                     | 0.30             | 0.45             | 1.38        | 0.20                     | -0.28                      |                            | 0.9827        | 661  |              | :                       | ,÷              | 1.38                            | -0.06            | -0.08                           | -0.08            | 0.9992                                   |
| - <del>- 7</del> 77  | 956     |                                     | 0<br>0<br>0<br>0 | 0                |             | -0.20                    | -0.28                      | 99.0                       | 0.9891        | 56   |              | <br>                    | 000             |                                 | 90'0-            | 60<br>C)                        | 80°0-            | 9865.0                                   |
| .i.,                 | 1997    | -3.01                               | 0.30             | -9.90            | 1.38        | 0.20                     | -0.28                      | -1.18                      | 0.9775        | 189  |              |                         |                 | 1.38                            | -0.06            | -0.08                           | 80.0-            | 0.9976                                   |
|                      | 1398    | -2.92                               | 0.30             | -0.88            | 1.38        | -0.20                    | -0.28                      | -1.15                      | 0.9662        | 1998 |              | <del></del>             | 00.0            | 1.38                            | 90.0-            | -0.08                           | -0.08            | 0.9967                                   |
| - <b></b>            | 1999    | -3.00                               | 0.30             | 06.0-            | 1.38        | -0.20                    | -0.28                      | -1.18                      | 0.9548        | 133  | <u>-</u>     | 0.11                    | 00.00           | 1.38                            | 90'0-            | -0.08                           | 80.0-            | 0.9959                                   |
|                      | 2000    | -12.31                              | 0.30             | -3.69            | 1.38        | -0.20                    | -0.28                      | -3.97                      | 0.9169        | 200  |              |                         | 00.0            | 1.38                            | 90.0-            | -0.08                           | 80.0-            | 0.9951                                   |
| 77.5°                | 3001    | 200                                 | - C              | ξ.<br>Ε.         |             | 00                       | - 0 - 0 -                  |                            | 0.4109        | 280  |              |                         | 0.0             | ex                              | 6                | 88.0-                           | 80.0             | 0.0043                                   |
| - <del>-</del> -     | 2002    |                                     | 30               | -0.35            |             | -0.20                    | -0.28                      | 8 9                        | 0.9052        | 2002 | <b>-</b> ~ - |                         |                 | 38                              | 90.0-            | 80.0-                           | 80.0-            | 0.9934                                   |
|                      | 2003    | 8                                   | 0.30             | -0.32            | 1,30        | -0.20                    | -0.28                      | -0.60                      | 0.8997        | 2002 | 3 0 00       | 0 10                    |                 | 1,38                            | -0.06            | -0.88                           | 80.0-            | 0.9926                                   |
| 77                   | 2004    | -1.00                               | 0.30             | -0.30            | 1.38        | 0.20                     | -0.28                      | -0.58                      | 0.8945        | 2004 |              | بياند                   |                 | 1.38                            | 90.0-            | 80.0-                           | 89.0-            | 0.9918                                   |
| . <del></del>        | 2002    | -0.91                               | 0.30             | -0.27            | 1,38        | -0.20                    | -0.28                      | -0.55                      | 0.8896        | 500  |              |                         |                 | 1,38                            | 90.0-            | -0.08                           | -0.08            | 0.9910                                   |
|                      | 2006    | -0.84                               | 0.30             | -0.25            | OC          | -0.20                    | -0.28                      | -0 53                      | 0<br>88<br>88 | 200  |              | 0.11                    |                 | 138                             | -0.06            | -0.08                           | -0.08            | 0.9902                                   |
|                      | 2007    | -0.77                               | 0.30             | -0.23            | 1.38        | -0.20                    | -0.28                      | -0.51                      | 0.8804        | 200  |              |                         |                 | 1.38                            | 90.0-            | -0.08                           | -0.08            | 0.9893                                   |
|                      | 2008    | -0.70                               | 0.30             | -0.21            | 1.38        | -0.20                    | -0.28                      | -0.49                      | 0.8762        | 200  | <u> </u>     | <u>.</u>                | 00.00           | 1.38                            | 90.0-            | 80.0- 1                         | 80.0- 1          | 0.9885                                   |
| <b>-</b> -           | 2009    | -0.63                               | 0.30             | -0.19            | <br>85.     | -0.20                    | -0.28                      | -0.46                      | 0.8721        | 2009 | 00.0         | - <u>-</u> -            | 800             | 80 F                            | 90.0-            | 80.0-                           | 80°0             | 1.7788.0                                 |
|                      | 2010    | -0.58                               | 0.30             | -0.17            | <br>        | -0.20                    | -0.28                      | -0-<br>-0-                 | 2898.0        | 707  | -; ;         | 11.0 . 0                | 00.0            | 1.38                            | 90.0-            | X0 0                            | ×                | 25 25 25 25 25 25 25 25 25 25 25 25 25 2 |
|                      | SOURCE: | SOURCE: CORPLAN                     | 1<br>1<br>1<br>1 |                  |             |                          |                            |                            | +-<br>        |      |              |                         | <br>            |                                 |                  | ;<br>;<br>;<br>;<br>;<br>;<br>; |                  | *** !                                    |
|                      | (I)     | 1) Per capita income growth in real | income           | growth i         |             | terns in year I (%       | vear I (!                  |                            |               | •    |              |                         |                 |                                 |                  |                                 |                  |  |
|                      | u (2)   | 2) Income elasticity of consumption | ticity           | or consu         |             | 1 4000                   | [3] (4]                    | · (¥                       |               |      |              |                         |                 |                                 |                  |                                 |                  |  |
|                      |         | Increase face of income grown a     | ease in          | real te          | = ``        | year I (*                | :<br>:<br>:                |                            |               |      |              |                         |                 |                                 |                  |                                 |                  | :  |
|                      |         | Price elasticity of consumption     | icity o          | f consum         |             |                          |                            |                            |               |      | ÷            |                         |                 |                                 |                  |                                 |                  |  |
|                      |         | Increase rate by tariff increase    | ite by t         | ariff in         |             | in year I (4). * (5) (%) | ( <del>*</del> )           | (%)                        |               |      |              |                         |                 |                                 |                  |                                 |                  |  |
|                      |         | Increase rate in year I             | ite in y         | ear I (*         |             | , i'                     |                            |                            |               |      |              |                         |                 |                                 |                  |                                 |                  |  |
|                      | (8)     | Increase index in year f, 1.0000    | idex in          | year is          |             | in base year 1990        | ear rasu                   |                            |               |      |              |                         | -               |                                 |                  |                                 |                  |  |

TABLE 6.2.6 PER CAPITA DOMESTIC CONSUMPTION PROJECTION

| 4   |          |       |   | م<br>ما من من من من من من من من من | +    |
|---|----------|-------|---|------------------------------------|------|
| CITY/MUNICIPALITY   | 1990     | 1995  | 2000                                    | 2005                               | 2010 |
| I. NCR  | 174      | ·     |   | <br>                               |      |
| CITY OF MANILA  | 181      | 186   | 191                                     | 195                                | 200  |
| PASAY CITY *a   | 151      | 180   | 187                                     | 193                                | 200  |
| QUEZON CITY   | 184      | 188   | 192                                     | 196                                | 200  |
| CALOOCAN CITY *a  | 134      | 180   | 187                                     | 193                                | 200  |
| LAS PINAS *s  | 51       | 180   | 187                                     | 193                                | 200  |
| MAKATI  | 206      | 210   | 213                                     | 217                                | 220  |
| MALABON *a  | 128      | 180   | 187                                     | 193                                | 200  |
| MANDALUYONG   | 164      | 180   | 187                                     | 193                                | 200  |
| MARIKINA  | 181      | 186   | 190                                     | 195                                | 200  |
| MUNTINLUPA *s   | 89       | 180   | 187                                     | 193                                | 200  |
| NAVOTAS *a  | 86       | 180   | 187                                     | 193                                | 200  |
| or ₹ Tital Tital Tital on the control of the contr | 324      | 305   | 287                                     | 268                                | 250  |
| PARANAQUE   | 180      | 185   | 190                                     | 195                                | 200  |
| PASIG   | . 99     | 180   | 187                                     | 193                                | 200  |
| PATEROS *a  | 249      | 249   | 249                                     | 250                                | 250  |
| SAN JUAN  |          | 180   | 187                                     | 193                                | 200  |
| TAGUIG *a   | 109      |       | 187                                     | 193                                | 200  |
| VALENZUELA *a   | 124      | 180   | 1 701                                   | 1 200 1                            |      |
| II. CAVITE  | 95       |       |   | , ·                                |      |
|   |          |       |   |                                    |      |
| BACOOR *s, f  | 90       | 180   | 187                                     | 193                                | 200  |
| CAVITE CITY *f  | 94       | 180   | 187                                     | 193                                | 200  |
| IMUS *f   | 116      | 180   | 187                                     | 193                                | 200  |
| KAWIT *f  | 100      | 180   | 187                                     | 193                                | 200  |
| NOVELETA **   | 86       | 180   | 187                                     | 193                                | 200  |
| ROSARIO *f  | 87       | 180   | 187                                     | 193                                | 200  |
|   |          |       |   |                                    |      |
| III. RIZAL  | 105      |       | :<br>                                   | <br>                               |      |
| ANGONO *r   |          | 141   | 160                                     | 181                                | 205  |
| ANTIPOLO *f   | 110      | 138   | 149                                     | 155                                | 162  |
|   |          | 141   | 160                                     | 181                                | 205  |
| BARAS *r  |          | 141   | 160                                     | 181                                | 205  |
| BINANGONAN *r<br> CAINTA *a   | 123      | 180   | 187                                     | 193                                | 200  |
|   | -        | 141   | 160                                     | 181                                | 205  |
| CARDONA *r  |          | 141   | 160                                     | 181                                | 205  |
| JARA-JARA *r  | 103      | 111   | 118                                     | 124                                | 129  |
| MONTALBAN *f  | 1 100    | 141   | 160                                     | 181                                | 205  |
| MORONG *r   |          | 141   | 160                                     | 181                                | 205  |
| PILILLA *r  | -<br>81  | 178   | 190                                     | 204                                | 219  |
| SAN MATEO *f  | or i     | 141   | 160                                     | 181                                | 205  |
| TANAY *r  | 110      | 180   | 187                                     | 193                                | 200  |
| TAYTAY *a   | 112      | 141   | 160                                     | 181                                | 205  |
| TERESA *r   | <b>-</b> | 1 747 | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                                    |      |
| +   |          | -:    |   | and the second professional second |      |

<sup>1.</sup> Areas with <\*a> have suppressed demand due to low water pressure, and be expected to be improved by AWSOP.

<sup>2.</sup> Areas with <\*s> also have suppressed demand due to low water pressure, and be expected to be improved by MSWDP.

3. Areas with <\*f> have suppressed demand due to limited water

sources, and be expected to be improved by FAWSP.

<sup>4.</sup> Areas with (\*r) are merged area under BP799, and be expected to be improved by RPWSIP.

<sup>5.</sup> Per capita water demand in Noveleta was assumed to be same as the one in Kawit

TABLE 6.2.7 MODIFIED WATER-BLIGHTED POPULATION IN THE NCR, BY CITY/MUNICIPALITY

|                       |        |                      | 1990                      |         | 2661      | 36                              | 2000        | 0.                              | 2005       | 5                               | 2010                                  | 01                              |
|-----------------------|--------|----------------------|---------------------------|---------|-----------|---------------------------------|-------------|---------------------------------|------------|---------------------------------|---------------------------------------|---------------------------------|
| CITY/<br>MUNICIPALITY | LITY   | TOTAL<br> POPULATION | TOTAL BLICHTED POPULATION | ¥       | TOTAL     | WATER<br>BLIGHTED<br>FOPULATION | TOTAL       | WATER<br>BLICHTED<br>POPULATION | TOTAL      | HATER<br>BLIGHTED<br>POPULATION | TOTAL<br>POPULATION                   | WATER<br>BLIGHTED<br>POPULATION |
| 1. Manila City        | City   | 1,598,918            | 244,184                   | 15.3    | 1,666,014 | 253,102                         | 1,705,567   | 257,958                         | 1,723,126  | 259,690                         | 1,723,147                             | 258,959                         |
| 2. Pasay City         | ity    | 366,623              | 116,339                   | 1 31.7  | 402,932   | 127,193                         | 433,048     | 136,092                         | 457,147    | 143,156                         | 475,225                               | 148,397                         |
| 3. Quezon City        | City   | 1,666,766            | 337,037                   | 1 20.2  | 1,870,519 | 376,263                         | 2,049,017 ; | 410,335                         | 2,200,635  | 439,136                         | 2,323,154                             | 462,274                         |
| 4. Caloocan City      | n City | 1 761,011            | 216,709                   | 28.5    | 872,801   | 247,245                         | 979,527     | 276,244                         | 1,076,883  | 302,624                         | 1,164,630                             | 326,356                         |
| 5. Las Pinas          | 8.8    | 1 296,851            | 38,040                    | 12.8    | 413,469   | 52,707                          | 551,808     | 70,029                          | 1 708,704  | 89,621                          | 878,109                               | 1110,730                        |
| 6. Makati             |        | 452,734              | 58,982                    | 13.0    | 489,333   | 63,417                          | 1 517,961   | 66,829                          | 539,315    | 69,337                          | 553, 794                              | 70,997                          |
| 7. Malabon            |        | 1 278,380            | 1 55,680                  | 20.4    | 305,870   | 61,952                          | 328,653     | 66,271                          | 346,868    | 969,69                          | 360,515                               | 72,233                          |
| ;8. Mandaluyong       | yong   | 244,538              | 1 51,004 ;                | \$ 20.9 | 265,870   | 55,164                          | 282,944     | 58,445                          | 296,044    | 60,935                          | 305,315                               | 62,665                          |
| 9. Marikina           | ď      | 310,010              | 57,422                    | 18.5    | 359,368   | 66,217                          | 405,480     | 74,381                          | 447,289    | 81,760                          | 483,621                               | 88 151                          |
| ;10. Muntinlupa       | npa    | 1 276,972            | 185,581                   | 20.4    | 346,829   | 70,494                          | 419,918     | 84,969                          | 493,739    | 99,553                          | 565,215                               | 113,642                         |
| ill. Navotas          |        | 186,799              | 53,436                    | 1 28.6  | 207,567   | 190'65                          | 225,328     | 63,836                          | , 240,031  | 67,760                          | 251,550                               | 118,07                          |
| 12. Paranaque         | ae     | ; 307,717            | 23,002                    | 7.5     | 369,370   | 27,466                          | 430,253     | 31,851                          | 488,493    | 36,035                          | 541,964                               | 39,866                          |
| 13. Pasig             |        | 397,309              | 80,329                    | ; 20.2  | 466,552   | 93,837                          | 532,663     | 106,657                         | 593,888    | 118,495                         | 648, 283                              | 128,982                         |
| 14. Pateros           |        | 104,12               | 6,038                     | 111.7   | 58,438    | 6,828                           | 64,776      | 7,535                           | 70,318     | 8,151                           | 74,945                                | \$ 8,563                        |
| 15. San Juan          | Ę      | 126,708              | 9,471                     | 7.5     | 133,478   | 9,925                           | 137,583     | 10,185                          | 140,304 ;  | 10,350                          | 141,007                               | 10,372                          |
| ;16. Taguig           |        | 1 266,080            | 47,363                    | 117.8   | 311,031   | 55,075                          | 353,627     | 62,339                          | 392,792    | 866,88                          | 427,323                               | 74,851                          |
| ;17. Valenzuela       | ela    | 340,050              | 133,147                   | 39.2    | 432,359   | 168,407                         | 530,824     | 205,839                         | 1 632,076  | 244,234                         | 731,811                               | 281,971                         |
| TOT                   | T V    | 7,928,867            | 1,585,773                 | 20.0    | 8,971,800 | 1,794,360                       | 9,948,977   | 1,989,795                       | 10,847,652 | 2,169,530                       | 11,649,608                            | 2,329,922                       |
|                       |        |                      |                           |         |           | 111111111111                    | 81181181    |                                 |            |                                 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                                 |

PROJECTED DOMESTIC WATER CONSUMPTION IN 1995, BY CITY/MUNICIPALITY TABLE 6.2.8

| 1, 11, 11, 11, 11, 11, 11, 11, 11, 11,   |                     | נסבער      | TOTAL POPULATION ( | 1995}             | PER CAPITA   |              | מתפקסוול ו                              |                             | ,               | ;<br>;            |           |   | MASS CORNE | JED FOFUE               | 41,504       | KASS DOB  | PURENTIC COMPUNE            | 5047178         | ; PRIVATE          | ġ                           | CONSUMPTION    |
|--|---------------------|------------|--------------------|-------------------|--------------|--------------|---|-----------------------------|-----------------|-------------------|-----------|---|------------|-------------------------|--------------|-----------|-----------------------------|-----------------|--------------------|-----------------------------|----------------|
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | CITY/HUNICIPALITY   | į          | CEKERAL            | WATER<br>BLICHTED | # i ~~~~     |              | ENBEAL<br>(43/69)                       | WATER<br>SLICETED<br>(N3/D) | TOTAL<br>(K3/D) |                   |           | J                                       |            | fater<br>IGHTED<br>POP. | 101AL<br>POP | (83/0)    | WATER<br>BLICHTED<br>(N3/0) | TOTAL<br>(E3/D) | GENERAL<br>GENERAL | 84782<br>84108780<br>(83/0) | 101 (11 / 10 ) |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | I. MCR              | 8,971,800  | 1,177,440          | 1,794,360         | 192          | = .<br>S     | 378,394                                 | 62,803                      | 1,442,197       | <b> </b>          | <br>      | 70 5,77                                 | ļ          | 542,543                 | 6,319,823    | 1,107,301 | 18,989                      | 1,126,290       | · -¦- 23           | 18.63                       | 315.307        |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | THE OF MARIE        | 1,688.014  | 1 413 413          | 401 136           | -            | ;            |   |                             |                 | Ì                 | ÷         |   | ļ          | -                       |              |           |                             |                 | -,-                |                             |                |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | ASAY CITY **        | 402,932    | 275, 779           | 191100            | 000          | 3 2          | 129,242                                 | 60.5                        | 271,745         | G 1               |           | - <u>-</u> -                            | 2,256      | 15,931                  | 1, 118, 197  | 249,742   | 2,653                       | 252, 199        | 13,144             | 6,201                       | 19,345         |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | 10820V C.TT         | 220 510    | 1 101 026          | 10000000          | 2 3          | 3            | 7,01                                    | 7,52                        | 54,085          |                   |           |   | 1,378      | 38,158                  | 272,536      | 42,188    | 1,336                       | 43,524          | 5117               | 3.116                       | 10,551         |
|  | I VOLUME OF THE ST. | Preintel : | 007-52-1           | 7876017           | 20 :         | 3            | 280,548                                 | 1,169                       | 293,717         | 36                |           |   | 9,543      | 2.875                   | 1.532.422    | 265.521   | 1,951                       | 170 412         | 14,029             | 2 21                        | 23 245         |
|  | TO BIVING ALL       | 1704-611   | 950,050            | (12117            | 200          |              | 112,600                                 | 8,654                       | 121,254         | 2                 |           |   | 7,883      | 14.174                  | 512.053      | 18.820    | 2.596                       | 81.415          | 13, 730            | 850 3                       | 29 27          |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | TARE LIBRO .        | 547.14     | 360, 782           | 52,707            | 8            |              | 64,937                                  | 1,845                       | 66, 182         | 100               |           |   | 2,343      | 5.8.2                   | 178, 155     | 29.22     | 5                           | 2 2 2 2         | 1                  |                             |                |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | ALATI               | 489,333    | 916'52             | 63, (17           | 210          | :_<br>:::    | 89,231                                  | 2,220                       | 91,451          | 2                 | -         |   | 1.32       | 14.025                  | 103 360      |           | 3 3                         | 200             |                    | 1                           |                |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | ACABON TE           | 305,870    | 243,918            | 61,952            | 130          | <br>\$3      | 13,905                                  | 2,158                       | 46.074          | 2                 |           |   | 213        | 58.5                    | 136 438      | 20,000    | 3 5                         |                 |                    |                             |                |
| 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,   | KNOVENICKE          | 265,870    | 210, 706           | 55,164            | 180          | <b>:</b>     | 37,927                                  | 1.931                       | 36.95           | 5                 | 1         |   | 201        | 9/3                     | 1 020, 501   |           | 2 5                         |                 | 77767              | 7                           | 7,1            |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | ARTERA              | 159,358    | 293,151            | 112,33            | 188          | ¥3           | 54. (23                                 | 2                           | 26.74           | 3                 | -,-       |   | 11110      | 200 01                  | 021 019      | 750,05    |                             | 20.010          | 182                | 22                          | 3,248          |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | UNTINIUPA ** !      | 346,829    | 276,335            | 10,494            | 180          | -            | 19,740                                  | 2.469                       | 20%             | ? 5               |           |   | 2010       | 20062                   | 65.00        | 201,16    | 2                           | 181 24          | 77.7               | 1.622                       |                |
| 18, 17, 18, 17, 18, 17, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18   | AVOTAS **           | 207,567    | 148,500            | 59 067            | 180          | -            | 96. 37                                  | 2, 167                      | 20.00           |                   | <u> </u>  |   |            | 0111                    | 750 161      | 20.0      | 2                           | 20,033          | \$12*52            | 121                         | 11,571         |
| 11   12   13   13   13   13   13   13  | ARANAGUE ta         | 369,370    | 341.904            | 27.486            | 305          |              |   |                             | 106 361         | 2 5               |           |   | 2          | 021,120                 | 151,370      | 2.        | 929                         | 24,671          | 2,673              | 1                           | 4,120          |
| 11   12   15   15   15   15   15   15  | ASIG                | 166,552    | 372,715            | 93.83             | 28           |              | 2 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |                             | 100,634         | 3 3               |           | <u>.</u> .                              | 77.        | 10,987                  | 521 912      | 62,500    | 23                          | £2,58           | 41,133             | 55                          | 12,330         |
| T. 1.10         1.15   | ATEROS 3a.          | 58,438     | 51.619             | 200               | 1 6          |              | 200,00                                  | 1076                        | 7.1.67          | 5                 |           | <u>.</u> .                              | *          | 28, 151                 | 363,595      | 61,949    | 8                           | 62, 935         | 5,883              | 2 299                       | 9,132          |
| 4. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.  | NATUR AT            | 111.478    | 23 663             | 910               |              |              | 25.                                     | 3                           | 670'5           | ₽                 |           | ·_                                      | 3 224      | 2,049                   | 25, 271      | 4,180     | 22                          | 1,252           | 5,109              | 167                         | 5.27           |
| 4         11.5         11  | CONT. 3.            | 11011      | 70.00              |                   | ÷            | 9            | £                                       | ਜ<br>ਜ                      | 11,1            | <br>-:            | -         |   | 1,275 ;    | 994                     | 121.841      | 29.25     | 35                          | 29.410          | 1.540              | 163                         | 1.71           |
| The contract   The    | SUPUZIEDI A.        | 1 031 667  | 000 000            | 60.00             | 2 :          |              | 46,072                                  | 255                         | 900 S           | 2                 |           |   | 1,191 ;    | 16,523                  | 87,714       | 9.214     | 49.0                        | 9, 793          | 36.853             | 1                           | 18.207         |
| 11.65.55         18.57         18.67   | 4                   | 6601766    | 756,507            | 106 407           | 180          | <br>S        |   | 5,89                        | 53,406          | G                 | <u></u> - | ·<br>                                   | 1 695 1    | 50,522                  | 222,091      | 10,832    | 1.63                        | 32,655          | 16.629             | 125                         | 20,755         |
| 16,655         18,526         17,73         67         17,73         67         17,73         67         17,73         67         17,73         67         17,73         18,73         17,13         18,450         17,13         18,450         17,13         18,450         18,410  | TT CAUTED           | 770 743    |                    |                   | <u> </u>     | 1            | -                                       | -                           |                 | -                 | Ŧ         |   |            | -                       |              |           |                             |                 |                    |                             |                |
| 11, 18, 516         18, 516         18, 516         18, 516         18, 516         18, 516         18, 516         11, 71         18, 1067         28, 116         11, 146         61         41, 126         61         41, 126         61         41, 126         61         41, 126         61         41, 126         61         41, 126 <th< td=""><td>II. CATES</td><td>750</td><td>515,405</td><td>18,617</td><td><br/>8</td><td></td><td>92,773</td><td>259</td><td>93,425</td><td><br/></td><td><u>۔۔</u></td><td>17 24</td><td>981'9</td><td>2,667</td><td>250,853</td><td>14 133</td><td>86</td><td>14 332</td><td>48.640</td><td>353</td><td>49.098</td></th<>  | II. CATES           | 750        | 515,405            | 18,617            | <br>8        |              | 92,773                                  | 259                         | 93,425          | <br>              | <u>۔۔</u> | 17 24                                   | 981'9      | 2,667                   | 250,853      | 14 133    | 86                          | 14 332          | 48.640             | 353                         | 49.098         |
| 107,162   103,244   1,214   100   35   11,205   11,005    | ייטעט און די        | 400        |                    |                   |              | <u> </u><br> | -                                       | -                           |                 | Ť                 | +         | 1                                       |            | -                       |              |           |                             |                 |                    |                             |                |
| 107.1672    | LATE CITY SE        | 96 575     | 797 601            |                   | 200          | <br>         | 1,067                                   | 22                          | 34,325          | <br>=             | 9         | -                                       | 2,168 !    | 2,212                   | 87,380       | 15,330    | 11                          | 15,408          | 18,737             | 181                         | 3.913          |
| 55,217         67,555         62,2         100         35         100         21         10,405         41         41,005         41,   | 12 40               | 107 169    | 101.01             | 776               | 3 6          | 9:           | 2                                       | - :                         | 1465            | 3                 |           | G                                       | , 554      | 1,035                   | 1, 689       | 10,918    | 55                          | 10,354          | 6,430              |                             | 5.511          |
| 23,125         22,511         61,10            | MIT ST              | 65.215     | 323 75             |                   | 200          | 3 5          | 020.01                                  | ∃ ;                         | 108.9           | ; :<br><b>=</b> : | 28        | ======================================= | . 350      | 33                      | (3,982       | 1,25      | H                           | 1               | 10,938             | 33                          | 11,023         |
| L. 149,300         600,355         1,556         1,506   | YSUSTA              | 23.125     | 11.46              | 1 1 1 0           | 2 5          |              | 200                                     | 3 3                         | 201             | 66                | 5         | 2                                       | 1 102      | 3                       | 38 144       | 987 9     | 51                          | 6,302           | 3,034              | 00                          | 3,041          |
| L. 19, 330         660,355         488,575         114         34         100,001         11,758         2,346         6,712         17,758         2,346         6,712         17,758         17,758         17,752   | 38870 #             | 127        | 110 67             | 100               | 2 6          | 3 :          | 700'4                                   | 3                           | 080             | 2                 | 200       |   | 628        | 74                      | 5,872        | 1011      | <>→                         | 1 022           | 1,039              | 22                          | 1.059          |
| 15,022   22,025   21,025   2   |                     |            |                    | 7 67              |              |              | 06740                                   | ect.                        | 906'9           |                   |           |   |            | 193                     | 11,785       | 2,338     | 28                          | 2,366           | 8,412              | 22                          | 6,512          |
| 25,022         22,025         31,15         4,271, 100         0         40         22,025         3,115         0         4,271, 100         0         40         22,025         3,115         0         1,115         0         22,025         3,115         0         1,115         0         22,025         3,115         0         1,115         0         22,025         3,115         0         1,115         0         22,025         3,115         0         1,115         0         22,025         0         22,025         3,115         0         1,115         0         22,025         0         1,115         0         0         1,115         0         0         1,115         0         1,115         0         0   | III. BIZAL          | 1,149,930  | 650,355            | 189,575           | 124          |              | 01,805                                  | 16,835                      | 118.510         | =                 | 9         | 100                                     | 1 0 2 1    | 312 37                  | 264 740      | 766 37    |                             |                 |                    |                             |                |
| 15,002   22,002   13,007   141   15   1,156   4,271   100   0   40   22,002   0   1,115    |                     |            |                    | -                 | 1            | +            | -                                       | -                           |                 | i                 |           |   |            |                         |              | 0) (0     | 2014                        | 0,538           | 120'96             | 15,063                      | 11,10          |
| 10   10   10   10   10   10   10   10  | 12 DHO 2            | 25,062     | 22,025             | 33,037            | :<br>::      |              | 3,115                                   | 1,156                       | 1,271           | 901               | -         | 22                                      | 1,025      | -                       | 25 025       |           | •                           |                 |                    |                             |                |
| 14   15   15   14   15   14   15   15  | 111620 1            | 261,738    | 203,674            | 53,064            | <br>28<br>23 | <br>         | 28,796                                  | 2,068                       | 30,864          | 5                 | 23        | =                                       | .87        | 15.370                  | 177          | 1000      | " §                         | 771             |                    | 2                           |                |
| 140,181   43,552   51,232   141   14   1,008   3,108   10,117   100   0   35   49,555   0   6,533   1,008   0      | KAS Fr              | 130'63     | 838                | 18,153            | =            | =            | 121                                     | 258                         | 589             | 100               |           | ٠,                                      | 95         |                         | 868          | 127       |                             | 200             | 001101             | 200                         | 5.             |
| 154,650   131,720   125,930   130   135   21,710   1,153   24,822   25   10   20   12,730   9,877   42,890   5,927   41   42   42   42   42   42   42   42   | MARCOKAN F.         | 140,791    | 19,553             | 91,238            | =            |              | 1,008                                   | 1,103                       | 10.117          | 100               | -         |   | 1 253      |                         | 10 163       | 1000      |                             | 194             |                    |                             | e i            |
| 35   144   3.465   3.1,729   141   30   490   366   1,466   100   0   165   165   176      | INTA 6a             | 164,650    | 131,720            | 32,930            | 130          | 55           | 23, 710                                 | 15                          | 258.52          | 2                 | 9         |   |            | 2                       | 200          | 200       | -                           | 200             | -                  | 3,103                       | 103            |
| 17,814   15,827   141   31   173   542   543   150   0   3   511   0   1752   170   0   170      | RDOWN #T            | 35,194     | 3,465              | 31, 729           | Ξ            | 2            | 180                                     | 996                         | 937             | 9 5               | -         |   | - 24       |                         | 2            | 72.0      | ₹'                          | 213             | 11,782             | 201                         | 18,583         |
| 75,766         58,944         16,822         111         19         65,728         657         7,195         56         41         52         12,779         6,811         13,620         207         15,902         10           34,123         6,760         27,778         11,169         141         12         703         16,58         10         0         20         6,760         56,780         173         0         703         10         11         10   | RA-JARA *r          | 17,81      | 517                | 17.297            | =            | <br>         |   | 275                         | 110             | -<br>: :          |           |   |            |                         | 2            | <u> </u>  |                             | 5               | -                  | 99                          | 36             |
| 14,525         6,750         27,778         144         12         765         661         170         0         20         6750         0         6750         3,522         3,532         2,532         3,532         2,532         3,532         2,532         3,532         2,532         3,532         3,532         3,532         0         2,532         1,   | WATELBAN OF         | 15,766     | 58,944             | 16.822            | II           | -            | 5.53                                    | 100                         | 10              |                   | <br>      | <b>-</b> -                              | 1 166      | 3                       |              | 2 ;       | - ;                         | 2               |                    | 3                           | 242            |
| 35,137 4,366 11,659 141 12 703 193 1,656 100 0 67 6,556 0 6,750 0 6,750 0 752 5,025 0 753 5,025 6,525 6,525 6,525 6,525 6,525 6,525 6,525 6,525 6,525 6,525 6,525 10,505 1,505 | KOMG #r             | 14,528     | 5,750              | 27 778            | Ξ            | -            | 356                                     | 15                          | 3               | 3 5               |           |   | - 436      |                         | 070 55       | 2         | 292                         | 3,903           | 2,902              | 8                           | 3,232          |
| 22,401 50,515 41,885 118 33 8,945 1,555 10,600 44 24 35 22,223 9,859 22,139 3,957 38 4,532 5,022 5,310 15,314 2,130 0 2,111  | 117PT 11            | 36, 137    | 1,968              | 31 169            | Ξ            |              | 1                                       |                             | 1 202           | 2 5               |           |   | 200        |                         | 2            | 35        | φ.                          | 355             | -                  | 799                         | 381            |
| 65,310         15,317         50,465         141         33         2,170         1,586         1,00         0         23         15,147         3,53         3,133         30         31         13,147         3,10         0         15,147         3,134         3,133         3,10         0         2,176         1,104         4,124         6,168         2,176         10,11         1,11         1,11         1,11         1,12         4,104         6,134         6,268         2,77         1,11         1,11         1,12         4,104         6,134         6,268         2,77         1,11   | HANTED SE           | 92,461     | 50,515             | 41.885 .          | 118          | 5            | 3 995                                   |                             | 10.00           |                   |           |   | 966        |                         | 20.5         | 2         | -                           | 2               |                    | 983                         | 165            |
| 129,481 103,585 25,886 180 35 18,665 19,522 35 30 34 36,525 7,769 44,024 6,528 272 6,778 12,119 0 1,552 15,055 173 8,333,201 2,100,555,773 8,333,201 2,100,555,773 8,333,201 2,100,557 73 80,220 1,564,562 77 26,655,773 8,333,201 2,100,573 188 35 11,573,373 80,220 1,564,562 77 26,657,773 8,333,201 2,100,575 11,573,373 80,220 1,564,562 77 26,657,773 8,333,201 2,100,575 11,573,373 80,220 1,564,562 77 6,673,773 8,333,201 2,100,575 11,573,373 80,220 1,564,562 77 6,673,773 8,333,201 2,100,575 11,573,373 80,220 1,564,562 77 6,673,77 6,673,77 7,700,77 7,70 | 44 TA               | 65,810     | 15,367             | 50.463            | =            |              | 7.170                                   | 32                          |                 |                   | 5 5       |   | n t        | 20,                     | 32 138       | 2 361     | 385                         | (,352           | 5,028              | 1.25                        | 9,218          |
| 21,507 1,394 18 111 141 22 480 575 1,055 100 0 16 1,354 0 0 1,394 0 0 1,394 0 0 1,394 10 0 1,005 113 1,305,572 188 35 1,573,573 80,220 1,654,525 77 25 65 6,731,455 54,055 113 1,305,572 119,939 6,030 1,573,573 138 135 1,573,573 10,005 1,005  | TAT IL              | 129,481    | 103,585            | 25.836            | 131          |              | 375.81                                  | 300                         | 629 01          |                   |           |   |            |                         | 10           | 2         | 0                           | 2,12            | 0                  | 1,656                       | 1,656          |
| 10,665,713 8,339,201,2,372 188 35 11,573,373 80,220 11,654,282 75 8, 65 6,731,485 500,572 11,573,973 6,000 11,000,000  | RESA *c             | 21,507     | 3,394              | 82                | =            |              | 200                                     |                             | 100             | 3 5               | -<br>3 =  |   | 60         | 5921                    | 17,054       | 525       | 212                         | 95.             | 12,113             | 63                          | 12,754         |
| 10,665,713 19,339,201 2,105,572 } 188   15 11,572,913   20,290 1,654,282   76   25   6,311,466   544,099   5,095,572 } 189 19.   |                     | -          |                    |                   | 1            | .            |   |                             |                 | •                 |           | ,                                       | 1.531      |                         | £22.         | 285       | 0                           | 8               | -                  | 22.5                        | 5              |
|  |                     | 10,655,773 | 8,353,201          | 2, 302, 572       | 881          | 35 - 11, 5   | 73,973                                  | 80,290                      | . 654, 262      | 92                |           |   |            | 84.929 3                | 125 425      | 167 214   | 9.0 96                      | 631 616 1       |                    |                             | 107 27         |

NOTS: I. Areas with (4s) dave suppressed deamed due to low water pressure, and be expected to be improved by ANGOP.
2. Areas with (4s) also have suppressed deamed due to low water pressure, and be expected to be improved by BNND.
3. Areas with (4t) have suppressed deamed due to limited water sources, and be expected to be improved by PANSO.
4. Areas with (4r) are merged area under BPT99, and be expected to be improved by PANSO.

TABLE 6.2.9 PROJECTED DOMESTIC WATER CONSUMPTION BY CITY/MUNICIPALITY IN 2000

| 1  | TOTAL       | TOTAL POPULATION (20)     | (2000)            | PER CAPI              | 1        | DOKESTIC C                              | NSURETTO.                      | 1 (2000) i     | IVSS CON    | WECTED 1                             | KWSS CI            | OFFICTED POPU             | LATION                                  | MASS DOM       | DONESTIC COHS               | NO11480         | PRIVATE DO | IESTIC CON                  | SERPTION        |
|--|-------------|---------------------------|-------------------|-----------------------|----------|---|--------------------------------|----------------|-------------|--------------------------------------|--------------------|---------------------------|---|----------------|-----------------------------|-----------------|------------|-----------------------------|-----------------|
| CITY/KUNICIPAGITT  | TOTAL       | TYESHED                   | WATER<br>BLIGHTED | 1) ((10d1)<br>((PPC)) | 8 (02)   | (X1/D)                                  | MATST  <br>LIGHTBD  <br>(83/0) | TOTAL TOTAL TE | 7, 100 BE   | WATER MUSS<br>BL'D TOTAL<br>POP. 200 | LI CENERAL<br>POP. | WATER<br>BLICHTED<br>POP. | TOTAL                                   | (a)(h)         | RATER<br>SLICETED<br>(MS/D) | TOTAL<br>(M3/0) | (A3/O)     | #47E2<br>Belghtes<br>(%1/3) | TOTAL<br>[83/0] |
| I. NOR   | 9,948,977   | 7,959,182                 | 1,989,785         | 25                    | =        | 562,371                                 | 69,643 11                      | 110,568,       | 33          | 60 83                                | 1,026,290          | 1,193,877                 | 8,220,167                               | 1,378,416      | 41,786                      | 1,429,202       | 163,955    | 21,857                      | 211,812         |
| CITY OF MANICA   | 1, 705, 557 | 1,447,609                 | 251 958           | <br>61                | 33       | 276,069                                 | 9 029                          | 285,097        | <b>3</b> 5  | 80                                   | 1,375,228          | 151, 175                  | 1,539,003                               | 262,255        | 5,413                       | 261,682         | 13,803     | 3,611                       | 17,415          |
| PASAT GITT **  | 113,048     | 236,956                   | 136,092           | 287                   | 3 5      | 55,432                                  | 1 183                          | 128 717        | 8 8         | 28 88                                | 267,250            | 246.201                   | 348,916                                 | 298,637        | 2,355                       | 307.254         | 5,15       | 5,745                       | 7,448           |
| CALODONA CITY *A   | 919.527     | 703,283                   | 276,24            |                       | : :3     | 131,280                                 | 699 6                          | 140,948        | : జ         | 2 2 3                                | 562,627            | 165,746                   | 128,373                                 | 105,024        | 5,801                       | 110,825         | 25,256     | 3,867                       | 10,123          |
| LAS PINAS 89   | 551,808     | 181,173                   | 10,025            | 25                    | S        | 89,932                                  | 2, 451                         | 92,383         | *2          | 13                                   | 361,135            | 42,017                    | 103,352                                 | 61,449         | 1,111                       | 68,920          | 22,483     | 086                         | 13,463          |
| HARATI   | 1138'115    | 451,132                   | 66,829            | 211                   |          | 26,033                                  | 335                            | 22 6           | <b>33</b> 3 | 8 :                                  | 128,576            | 86.5                      | 168,613                                 | 22.15          | 1, 03                       | 150             | 5865       | up c                        | 2,76            |
| WALLBOW **   | 128,651     | 282,382                   | 25.27             | 00 6                  | ::<br>:: | 48,418                                  | 213                            | 51 297         | 2 2         | 92 63                                | 209,306            | 292.52                    | 242,058                                 | 28,182         | 262 (                       | 10,574          | 40.4       | 976                         | 2,123           |
| NAMBALUTONG.   | 156 282     | 56) 722                   | 38,443            | ***                   |          | 1 200 53                                | 60.00                          | 100,00         | g 5         | 25                                   | 112,612            | 200 27                    | 150 191                                 | 10,50          | 1771                        | 297 13          |            | 198                         | 761             |
| BAKILLKA<br>MHYTTUINDS Be  | 100 PTA     | 134 929                   | 2 564 . S         | 18,                   | 3 15     | 62.524                                  | 2,976                          | 85,488         | 2 2         | 12                                   | 251,211            | 50.982                    | 302,193                                 | 65.53          | 1,184                       | 18,677          | 15.631     | 12                          | 128,81          |
| KAYOTAS *A   | 225,328     | 161,482                   | 83,836            | 2                     | 169      | 30,145                                  | 7,23                           | 32,373         | · 53        | 20                                   | 153,417            | 18,302                    | 191,719                                 | 28,638         | 1,341                       | 29,578          | 1,507      | 55                          | 2,401           |
| PARKKAGUS 25   | 430,253     | 398,102                   | 31.85             | 78                    | 35       | 114,249 ;                               | 1,115                          | 115,354        | 2           | 13                                   | 11 318,721         | 19,111                    | 337,832                                 | 91, 389        | 693                         | 92,063          | 22,850     | 94                          | 23,236          |
| PASIG  | 532,663     | 128,006                   | 106,657           | 180                   | 32       | 80,850                                  | 3 733                          | 94, 583        | \$2         | 88 . 09                              | 104,706            | 63,994                    | 468,700                                 | 16, 807        | 2,260                       | 75 043          | 707        | 5,43                        | 5,535           |
| PATEROS **   | 64,176      | 57,241                    | 1,535             | 88                    | H        | 10,685                                  | 797                            | 10.949         | 2           | 9                                    | 290'03             | . 25                      | 065'94                                  | 2              | 85                          | - 1             | 502.5      | 105                         | [];             |
| SAN JUAN   | 117,581     | 127,393                   | 10, 185           | 55                    | F        | 31,784                                  | 326                            | 32, 141        | 33          | 26                                   | 121,028            | 6,111                     | 121,139                                 | 661,02         | : E                         | 30,08           | 90,        | 7                           | 251,1           |
| TAGUIG #4  | 353,627     | 291,288                   | 62,339            |                       | £        | 2                                       | 281.2                          | 56,556         | 2 1         | 3 3                                  | 205,502            | 20+12                     | OF 112                                  | 20, 20         | 5                           | 175,85          | 277-191    | 200                         | 670 61          |
| VALENZUELA **  | 528'085 ·   | 324,985                   | 205,838           | =                     |          | \$0.08                                  | 1021                           | 81,808         | 2           | 2                                    | 61,4150            | De* 771                   | 767 100                                 | 65,64          | 777                         | 30.5            |            | 700(3                       | 20,010          |
| II. CAVITS   | 126,110     | 593,551                   | 11,511            | æ                     | ន        | 110,798                                 | 113                            | 111,489        | Ξ           | 12                                   | 7 120,174          | 7,997                     | 128,471                                 | 60<br>60<br>60 | 280                         | 78, 768         | 32,308     | 333                         | 32,641          |
| The state of the s | 275 639     | 730 361                   | 7 181             |                       | <u> </u> | 365 67                                  | 356                            | 318 67         | :<br>       | 81 18                                | 182.683            | 4.310                     | 186.981                                 | 34.101         | 151                         | 34,252          | 8,525      | 101                         | 8,526           |
| Telling of the art   | 200 200     | 100 000                   | 105               | 2                     | -        | 19.204                                  | - C                            | 19.256         |             | اب ۔                                 |                    | 00                        | 80,998                                  | 16.956         | =                           | 14,387          | \$,248     | 23                          | 1,213           |
| THUS ST  | 121.860     | 118,797                   |                   |                       | : 12     | 22,175                                  | 3                              | 22,281         | 15          | E                                    | 7   61,721         | 1,207                     | 58,928                                  | 12,641         | 27                          | 12,683          | 3,534      | 53                          | 9,599           |
| LINIT RE   | 62,446      | 826 19                    | 33                | 181                   | 120      | 11,560                                  | 18                             | 11,518         | <br>        |                                      |                    | 363                       | E0 12                                   | 5              | <b>3</b> 5.                 | 52              | 25         | ~;                          | 558             |
| ROYELETA   | 26,102      | 25,354                    | 2                 | <br>                  | ,        | 1,733                                   | 23                             | 128            | <u>.</u>    | <u></u> -                            |                    | 092                       | 16,671                                  | 3 045          | E: :                        | 200             | 1,688      | * 1                         | 1,702           |
| ROSARIO *f   | 60,737      | 56,242                    | (,495             | 2                     |          | 10,489                                  | 151                            | 358,01         | <u> </u>    |                                      |                    | 829                       | 22,173                                  | 4,836          | e                           | 4,068           | 291,0      | 97.                         | 050.0           |
| III. RIZAL   | 1,325,412   | 863,057                   | 462,355           | 165                   | #3       | 112,705                                 | 15,187                         | 158,831        | 8           | =                                    | 1 569,450          | 52,168                    | 621,628                                 | 94,949         | 2,042                       | 165,38          | 11,155     | 14,145                      | 61,900          |
| Introduction   | 016 13      | 15 136                    | 100. 62           |                       | ¥        | 80.13                                   | 121                            | 6.763          | ş           |                                      | 33,110             | -                         | 32,110                                  | 5.138          | 9                           | 5 138           | •          | 1,124                       | 1,124           |
| ANTIBOLD BY  | 319.849     | 263,155                   | 26.93             | 5                     | 12       | 19,186                                  | 2381                           | 41,567         | =           | 7                                    | 0 115,023          | 13,380                    | 128,603                                 | 17, 128        | 295                         | 17 590          | 22,058     | 1,819                       | 23,877          |
| BALLAS 62  | 21,063      | : 183                     | 19,880            | 150                   | Ħ        | 185                                     | 610                            | 199            | 100         | -                                    | 6 ; 5,183          |                           | 1,183                                   | 561            |                             | £               |            | 919                         | 919             |
| BINANGOMAN 4r  | 152,533     | 68,131                    | 84,462            | 160                   | <br>     | 10,902                                  | 2,813                          | 13,775         | 190         |                                      | 5 68,131           | -                         | 11.83                                   | 10,902         | ~ :                         | 10,392          | 9          | 2,473                       | 2,213           |
| CALNTA **  | 208,860     | 186,174                   | 20,686            | £ :                   |          | 34,752                                  | 21                             | 35,476         | 2           | 3                                    | 110, 122           | 274'27                    | 162,633                                 | 27,12          | ***                         | 14,161          | 224181     | 927                         | 10,613          |
| CARDONA *C   | 200         | S                         | 13,030            | 99                    |          | 120                                     | 200                            | - 16           | 3 5         | <br>                                 | 163                | <br>                      |   | 592            |                             | 692             |            | 233                         | .275            |
| JARA-JARA ST   | 13,103      | 760 55                    | 074 17            | 2 5                   |          | 8.050                                   |                                |                |             | =                                    | 2 15 243           | 6, 502                    | 22 113                                  | 5,334          | 250                         | 2 64            | 959 2      | 33                          | 3,070           |
| NOTOR PL   | 36,35       | 1,832                     | 29,125            | 91                    | =        | 1,253                                   | 300                            | 2,153          | 8           | 0                                    | 1 7,832            | ~                         | 7,832                                   | 1,253          | •                           | 1,253           |            | 330                         | 900             |
| PILIGIA ST   | 39,119      | 7,254                     | 31,865            | 150                   | 27       | 1,161                                   | 66.                            | 1117           | 음:          |                                      | 7,254              |                           | 1,254                                   | 191            | •                           | 191,1           |            | 1,019                       | 1,010           |
| J* OZLYR NYS   | 101,679     | 209'99                    | 41,077            | 2<br>2                | 2 :      | 11,539                                  | 521                            | 13,201         | 8 5         | 2, 4                                 | 27,517             | 616.7                     | 76, 77                                  | 22.            | •                           | 60.0            | 3          | 1071                        | 100,0           |
| TABAT 67   | 12,70       | 55, 52                    | 16,632            | 2 6                   | <br>3,¥  | 1751                                    | 2 10                           | 25,437         | 2           |                                      | 63.45              | 8,399                     | 102, 342                                | 11 (5          | 11                          | 11 154          | 51.        | 203                         | 1.683           |
| TREESA *E  | 22,106      | 135                       | 17,155            | 2                     | =        | 192                                     | 8                              | <u></u>        | 8           | 9                                    | 156'1 . 2          |                           | 1,951                                   | 792            | -                           | 192             | ~          | 539                         | 533             |
| ***************************************  |             |                           |                   |                       |          | *************************************** |                                |                |             |                                      | 166 210 8 1 0      |                           | 0 370 366                               | 1 56 967       | 100                         | 1 704 423       | 35, 019    | 15 436                      | 176 161         |
| TOTAL  | 11,885,451  | 11,885,451. 3,415,790 ; 2 | 109'69'72         | 193                   | 2        | 7,966701                                | 1,746,190                      | 130613061      | -<br>6,     | -                                    | Legislants i a     | 21,12,21,                 | 200000000000000000000000000000000000000 | 1,000          |                             | 704674464       |            |                             |                 |

NUTE: 1. Areas with (4a) have suppressed deamnd due to low water pressure, and be expected to be improved by ANSOR.
2. Areas with (4b) also have suppressed deamnd due to low water pressure, and be expected to be improved by NSMOR.
3. Areas with (4t) have suppressed deamnd due to limited water sources, and be expected to be improved by RANSP.
4. Areas with (8t) are serged area under BFFFS, and be expected to be improved by RANSP.

PROJECTED DOMESTIC WATER CONSUMPTION IN 2005, BY CITY/MUNICIPALITY TABLE 6.2.10

|  |                   | 100        | charl correspond out of | 20001                                   | CONCEUS  | 100      | 2110000           |                             |                  |              |          |            | 3              | ABUTEN TOTAL              | E07191       | 2800 000          | 00110 00100                                   | INT IN          | LETERTS N                    | A 4716286                   | 12.00           |
|--|-------------------|------------|-------------------------|---|----------|----------|-------------------|-----------------------------|------------------|--------------|----------|------------|----------------|---------------------------|--------------|-------------------|---|-----------------|------------------------------|-----------------------------|-----------------|
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | CITY/EUNICIPALITY | i          | CENERAL                 | 24.782<br>BLIGHTED                      | ₹ !=-:   |          | GENBEAL<br>(N3/D) | WATER<br>BLICKTED<br>(M3/D) | 701.LL<br>(H3/D) |              | 86.0 176 | <u> </u>   | BHREAL<br>POP. | WATER<br>BLIGHTED<br>POP. | 101%<br>POP. | CZHYZAL<br>(B3/0) | WATER<br>BLIGHTED<br>(MS/D)                   | 107AL<br>(81/3) | CENEELL<br>GENEELL<br>(N1/0) | WATER<br>BLICHTED<br>(M3/0) | 1074E<br>(#1/5) |
| The control of the    | I. NCR            | 10,847,652 |                         |   | 200      | <br>     | 1,738,884         | 75,934                      | 1,814,818        | =            | ٤        | t~<br>≎0   | 895,821        | 1,518,671                 | 9,414,491    | 1,581,188         | 53,153  | 1,63,311        | 157,896                      | 22,180                      | 189,47          |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | CITT OF HANTEA    | 1,723,126  | 1,463,436               |   | ž        | 3        | 285,887           | 9,089                       | 294,976          | ×2           | 2        | 1 -        | 390.264        | 181,783                   | 1.572.047    | 271.593           | 6.362   | 229 955         | 14 296                       | ,                           | 5 0             |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | PASAT CITT ta     | 151,147    | 313,991                 | ·                                       | 133      | ¥;<br>   | 50,105            | 5,010                       | 65,715           | 8            | 2        |            | 298,291        | 100,209                   | 398,501      | 57,670            | 3.507   | 11119           | 1.935                        | 503                         | 3 5             |
| No. 10.   No.    | 2                 | 2,200,635  | 1,761,499               | <u>.</u>                                | 96       | 2        | 345,108           | 15,370                      | 360,477          | 55           | 2        | <br>       | \$73,424       | 307,395                   | 1,980,819    | 327,852           | 10,759  | 138,511         | 17,255                       | 3                           | 225             |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   |                   | 200 401    | 174,234                 | ~ ·                                     | 6        | <b></b>  | 149,690           | 10,592                      | 160,282          | <b>#</b> 3   | 2        |            | 658,121        | 211,836                   | 869,957      | 121,231           | Ξ   | 134, 651        | 22,454                       | 3,178                       | 25,63           |
| Column   C   | TARKET!           | 514 115    | 100,000                 | 170 70                                  | 2        | 5        | 580 511           |                             | 122,826          | ## :         | 2        |            | 526,220        | 62, 735                   | 588,955      | 101,736           | 2,195   | 103,332         | 11,953                       | 7                           | 18,89           |
| Column   C   | MACABON 4a        | 346.868    | 271, 172                | 59.69                                   | 7        |          | 101, (31          | 27.7                        | 104,178          | s:           | 2 :      |            | 146,479        | 123                       | 195,015      | 96,563            | 569   | 38 383          | 5,058                        | 22                          | 5,81            |
| Column   C   | KANDALUYONG       | 296,044    | 235.109                 | 60.935                                  |          | 3 2      | 107.57            | 77.                         | 920 90           | 2 :          | 2 ;      |            | 235, 556       | 20                        | 284,383      | 6,549             | 2021  | 17,256          | 80<br>03<br>03               | 712                         | 8,77            |
| 1,10,10  | KARILINA          | 1,728      | 153                     | 81.750                                  | 1 25     |          | 11.15             | 25.0                        | 100116           | g y          | = :      |            | 102, 525       | 12,654                    | 265,008      | 23,182            | 5   | 14,675          | 2,213                        | 0.5                         | 5.              |
| 1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0  | KUNTENEUPA 18     | 191, 139   | 394,186                 | 99 55                                   |          |          | 200               | 1 100 13                    | 20 00            | 2 2          | 2 5      |            | 2, 5           | 252,10                    | 482          | 67,783            | 2,003   | 13, 131         | 3,568                        | 00                          | 4,4             |
| Control   Cont   | HAVOTAS 3.        | 240,031    | 172,271                 | 181 19                                  | 5        | 45       | 33.305            | 2,372                       | 16 677           | 3 4          | = =      |            | 860,666        | 29,00                     | 1061.183     | 311,12            | F. 1  | 177 20          | 11,13                        | 50                          | 1,41            |
| 1,0,110   11,0,111   1,0   | PARANAQUE *3      | 188,193    | 452,458                 | 36,035                                  | 288      | 32       | 121,433           | 1.261                       | 75 847           | : #          |          | -:-        | 1 00 001       | 36 11                     | 1 200 177    | 30,10             | 1 4 4 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 30.00           | 200.0                        | 7 5                         | 7               |
| 10,711   5,1,115   5,1,1   | PASTG             | 591,588    | 475,393                 |   | 135      | 32       | 92,651            | 1                           | 96.798           | : ::         | . 5      |            | 151 69.        | 27,03                     | 103 CT       | 019 68            | 700   | 101 101         | 1191                         | 97                          |                 |
| 10,004   113,514   10,526   10,526   10,526   10,517      | PATEROS 28        | 10,318     | 62,167                  | 8,151                                   | 133      | 3        | 12,019            | 282                         | 12,384           | : =          |          |            | 72.            | 70.7                      | 2015         | 914 9             | 2 606 6                                       | 195 02          | 26.                          | 3 20                        |                 |
| 8.66.20.0         1.51.74         1.61.74  | SAN JUAN          | 140,304    | 129,954                 | 10,350                                  | 250      | 22       | 12,455            | 796                         | 32,818           | 2            | 2        |            | (23, 657       | 7,745                     | 130.701      | 10.02             |   | 950 11          |                              | 2 6                         | 44              |
| 4         612 076         315 42         244 24         113         15 4 10 10 11 10 271         15 7 10 10 10 10 11 10 10 10 10 10 10 10 10   | TAGUIG **         | 392, 792   | 323,794                 |   | 1        | 25       | 62,600            | 2,415                       | 65,015           | <br>         | 2        |            | 259,035        | 88.238                    | 101,33       | 20,080            | 5 5   | 51.73           | 1,000                        | 766                         | 26              |
| 8         66, 134         77, 151         135         135, 171<  | ALERNZUELA SA     | 632,076    | 387,842                 |   | 181      | <b>:</b> | 14,983            | 5.53                        | 83,531           | *            | 2        | ·          | 129,656        | 170,954                   | 500,630      | 8,735             | 3   | 63.73           | 1,2,1                        | 2.584                       |                 |
| 47         257,150         258,316         6,534         135         25,120         25,120         6,120         13,120         13,120         14,110  | II. CLUTTR        | 568 398    | 679 851                 |   | -        | <u> </u> |                   | -                           |                  |              | Ť        | -          | -              | -                         |              |                   |   |                 |                              |                             |                 |
| 24         15         25         15<   | 27. 04. 119       | 000 000    | 766,010                 | - 1                                     | 2        | 3        | 123,117           | 32                          | 130,273          | 2            | Z.       | æ          | 538,520        | 8,520                     | 547,040      | 104,114           | 238   | 104,412         | 25,603                       | 258                         | 25,86           |
| 1,50,108   100,344   1,104   133   15   21,035   39   1,107   13   13   13   13   13   13   13   1   | 34C008 \$1,8      | 275,150    | 268,816                 | 6,534                                   | 193      |          | 51,932            | 229                         | 52,161           | 52           |          | *2         | 228.324        | 725.7                     | 212 847      | 101 11            | 168   | 12 13           | 98.                          | 1 8                         | 100             |
| 13   14   14   15   15   15   15   15   15   | MAITS CITY AT     | 806 503    | 108,804                 | 6                                       | =        | un e     | 21,035            | 8                           | 21,074           | <b>3</b> ;   | 12       | 25         | 161,384        | 910                       | 102.32       | 19.80             |   | 18.63           | 1                            |                             | 1               |
| 28,672         61,601         4,121         13,730         110         96         61,722         416         61,127         41,501         15,710         41,101         15,711         15,711         15,711  | 14 GOT            | 130 dis    | 180481                  | 2,117                                   | 5        |          | 25,129            | <br>                        | 25,825           | :<br>:       | =        | 52         | 90,389         | 1,155                     | 115'18       | 17,475            | 9   | 11,516          | 8,254                        | ¥5                          | 8,309           |
| 68 022         61 061         4 1481         133         35         12,266         15,51         4 1,100         11,100         12,112         4 1,100         11,100         12,112         4 1,100         11,100         11,100         12,112         12,112         12,112         12,112         13,112  | OVELRYA           | 28.67      | 28.010                  | 111111111111111111111111111111111111111 | 3 5      |          | 502,54            | 9 5                         | 527 61           | <br>S :      | e :      | e :        | 221 53         | 9                         | 99           | 12,705            | 22  | 12, 721         | 8                            | 0                           | 63              |
| L         1,503,411         1,602,571         4,60,800         115,975         1,602,571   | DSARIO #C         | 68,022     | 61.601                  | 7                                       |          |          | 12,295            | 3 2                         | 13 15            | 2 4          | 2 -      |            | 21,412         | 51 5                      | 21 82        | 4,140             | <b>:</b>                                      | 35              | 1,276                        |                             | 1,28            |
| L         1,503,411         1,002,517         1,002,517         1,002,517         1,002,411         1,002,   |                   |            |                         |   | +        | ;        |                   |                             | 12.13            | 2            | 3        | =          | 16311          | 1,520                     | 12,310       | 2,043             | ***   | 280 9           | 8,247                        | 95                          | 35              |
| 13-979   14-781   23-192   181   13   1-927   1022   8-919   100   0   0   10-7187   0   4-3-787   17-927   15-55      | III. RIZAL        | 1,503,411  | 1,052,571               | - 1                                     | 135      | **       | 184,124           | 15,968                      | 200'002          | =            | ===      | <b>5</b> 8 | 775,105        | 181'69                    | 834,586      | 137,601           | 2,350   | 138,958         | (6,523                       | 13,618                      | 60,142          |
| 19,154         19,175         19,175         19,175         19,175         19,175         24,925         355         25,577         25,577         25,577         30         22,155         0         2,215         40         10         2,215         0         2,215         40         60         10         2,215         0         2,215         40         0         2,515         40         0         2,515         40         0         2,515         40         0         2,215         40         0         2,215         0         2,515         40         0         10         2,215         0         2,515         40         0         10         2,215         0         2,515         40         0         10         2,215         0         2,515         40         0         10         2,215         0         2,515         30         10         0         0         1,215         10         0         0         10         2,215         0         2,515         30         10         0         10         2,215         0         2,515         30         10         0         0         10         2,215         0         2,515         10         0         0   | NGONG 4:          | 12.979     | 3,787                   |   | 181      | ·-       | 7.927             | 1.027                       | 016              | 188          |          | 5          | 11 707         |                           | 100 47       | ****              |   |                 |                              |                             |                 |
| 21,888         2,215         20,633         181         11         401         623         1,000         10         2,215         0         2,215         401         6         401         6         401         6         401         6         6         1,101         0         54         87,904         0         18,915         0         18,915         0         18,915         0         18,915         0         18,915         0         18,915         0         18,915         0         18,915         0         18,915         3,101         60         18,915         18,915         3,101         60         18,915         18,915         3,101         60         18,915         18,915         3,101         60         18,915         18,915         3,101         60         18,915         3,101         60         3,101         60         3,101         60         18,915         <   | NTIPOLO RE        | 379,154    | 319,179                 |   | 155      | =        | 49,458            | 2,639                       | 52,037           | 2            |          |            | 160,830        | 30.00                     | 101674       | 196616            | 3 964   | 226'1           | -                            | 770 1                       | 220'1           |
| 25,157         81,903         14,241         18,145         18,153         100.0         54         87,908         16,915         16         15,915         0         0         15,915         0         0         15,915         0         0         15,915         0         0         15,915         0         0         15,915         0         0         15,915         0         0         15,915         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <t< td=""><td>MAIS or</td><td>22,808</td><td>2,215</td><td>_</td><td><br/>80</td><td>=</td><td>Ę</td><td>623</td><td>1,030</td><td>2</td><td>-</td><td>97</td><td>2.215</td><td>-</td><td>2.215</td><td></td><td></td><td></td><td>2001</td><td>1 063</td><td>3</td></t<>   | MAIS or           | 22,808     | 2,215                   | _                                       | <br>80   | =        | Ę                 | 623                         | 1,030            | 2            | -        | 97         | 2.215          | -                         | 2.215        |                   |   |                 | 2001                         | 1 063                       | 3               |
| 251,477         258,902         25,147         258,903         25,147         258,903         25,167         35,617         35,  | TRANCOMAN *:      | 162, 155   | 83,308                  |   |          | =        | 15,915            | 2,520                       | 18,435           | 82           | ==       | 54         | 87,901         | -                         | 87,908       | 15,915            |   | 15.915          |                              | 2.520                       | 2.520           |
| 23,770   | ALATA FE          | 251.457    | 225,303                 | -                                       | Ξ.       |          | (3,752            | 000                         | 41,632           | ==           | 2        | 2          | 181,042        | 11,601                    | 198 643      | 15,001            | 616   | 35,612          | 8.150                        | 797                         | 9.01            |
| 90.885         71.00         13.7   | ARBUMA CT         | 12,57      | 2.                      | •••                                     |          | £ :      | ÷ 3               | 1 2 5                       | 255              | <u></u>      |          | **         | 5.5            | •                         | 1,815        | HE                |   | 178             | •                            | 1,021                       | 1,02            |
| 40.225         9.755         1.758         1.277         2.21         2.716         1.758         2.716         1.758         2.716         2.716         1.758         2.716         1.758         2.716         1.758         2.716         1.758         2.716         1.758         2.716         1.758         2.716         1.758         2.716         1.758         2.716         1.758         2.716         0         2.716         0         2.716         0         2.716         0         2.716         0         2.716         0         2.716         0         2.716         0         2.716         0         2.716         0         2.716         0         2.716         0         2.716         0         2.716         0         2.716         0         2.716         0         2.716         0         2.716         0         0         2.716         0         2.716         0         2.716         0         0         2.716         0         0         2.716         0  | DATE AND A        | 170 05     | 10740                   | -                                       | 200      | ===      | 200               | 226                         | 56.              | <u> </u>     | - ;      | ·          |                |                           | 1,131        | 208               |   | 295             | -                            | \$23                        | 526             |
| 1,1556 11,135 22,621 181 11 2.161 228 1,189 10 0 1 1,1556 0 1,1556 | 080% #r           | 40.222     | 2,783                   | 30 650                                  |          | -<br>= = | 0.00              | 7.0                         | 10,152           | <u> </u>     |          | :          | 58,758         | 181                       | 2 3          | 23.               | 787   | 1,538           | 2,303                        | 310                         | 2,61            |
| 27         109,620         71,766         37,834         24,11         10,166         4,914         1,567         1,575         100         0         41,663         10,106         4,914         10,166   | FLILLA tr         | 11.558     | 11,935                  | 29.621                                  |          | . =      |                   | 928                         | 901.6            | 3 5          | <br>     | ÷ 2        | 11 041         | > <                       | 92           | 292.              | · ·   | 32              |                              | £.                          | 35              |
| 13, 133 13, 133 13, 135 14, 135 131 131 131 131 131 131 131 131 131  | AN MATEO of:      | 109,620    | 11,766                  | 31,854                                  | 702      | <b>-</b> | 1,61              | 999                         | 16,307           | : 22         |          |            |                | 10.086                    | 21.73        | 101,0             | 7 77  | 7,191           | 0 7                          | 328                         | 223             |
| 173,025 155,725 15,725 15,725 15,725 15,725 15,725 15,725 15,725 15,735  | 3.14.1 ±          | 78 789     | 32,48                   | 16,300                                  | <br><br> | 2        | 5,882             | 1,497                       | 7,379            | 8            | 5        | =          | 32,489         |                           | 32.489       | 283.5             | -   | 288.5           | 0                            | 777                         | 1 47            |
| 224.10 8.415 16.055 181 31 1.114 504 1.647 100 0 28 6.315 0 6.315 1.143 0 1.144 0 1.144 1.145 1. | AFTAT CA          | 173 025    | 155,723                 |   | =<br>=   | × :      | 30, 00            | 909                         | 30,712           | <del>=</del> | =        |            | 124, 578       | 12,112                    | 136,690      | 24,085            | 2   | 24,509          | 6,021                        | 22                          | 5.283           |
| [3,501.828 [0.40.84 2.65.245 [9] 34 2.65.75 [9.14.19] ap en or one set to me con   | BEGGA 47          | 017.22     | elr's                   | 16,095                                  | <b>.</b> | <br>     | 1,143             | 204                         | 1,641            | <u>.</u>     |          |            | 6,315          | -                         | 6,315        | 1,143             | 6   | 34.             | 13                           | 20.                         | ŝ               |
| 20 10 10 10 10 10 10 10 10 10 10 10 10 10  | TOTAL             | 13,037,538 | 10,401,643              | 2.636.245                               | 187      | , yr     | 162 610           | 1 007 60                    |                  |              | -        |            |                | -                         |              |                   | -   |                 |                              | ì                           |                 |

MOTS: I. Areas with (4b) have suppressed demand due to low water pressure, and be expected to be improved by ANSOP.

2. Areas with (4b) also have suppressed demand due to low water pressure, and be expected to be improved by MNTPP.

3. Areas with (4f) have unpressed demand due to limited water sources, and be expected to be improved by PANSP.

4. Areas with (4r) are werged area under BFT99, and be expected to be improved by RMSP.

PROJECTED DOMESTIC WATER CONSUMPTION in 2010, BY CITY/MUNICIPALITY TABLE 6.2.11

| · ·               | 101/1                  | TOTAL POPULATION (2 | (010)             | PSE CAP | 17.           | DOKESTIC       | CONSUMPTION                 | (2010)            | (CO SSAR   | CONHECTED #                           | * BMSS            | соиместер вори   | PULATION        | ON SSUR                                 | DOKESTIC COK                            | SUKPTION        | PREVATE           | E03.                        | METTOR          |
|-------------------|------------------------|---------------------|-------------------|---------|---------------|----------------|-----------------------------|-------------------|------------|---------------------------------------|-------------------|------------------|-----------------|---|---|-----------------|-------------------|-----------------------------|-----------------|
| CITT/AUXICIPALITY | TOTAL                  | CENBRAL             | WATER<br>BLIGHTED | GBH'L   | 81.0<br>(PCD) | GENERAL (10/0) | WATER<br>BLIGHTED<br>(X3/D) | 10/cr)<br>(8/3/3) | 18. C. Br. | WATER WASS<br>BL'D TOTAL<br>POP. POP. | S GENERAL<br>POP. | SLICETED<br>POP. | 707.16<br>P0P.  | GENERAL<br>(M3/D)                       | #4788<br>BLIGRTSD<br>(83/0)             | TOTAL<br>(83/0) | GENERAL<br>(N3/b) | #ATZB<br>BLICSTSO<br>(83/0) | TOTAL<br>(M3/0) |
| I, KCB            | 11,549,508             | 9,319,686           | 2,329,922         | ĕ       | æ             | ,905,230       | 81,54                       | 1,986,77          | **         | 75                                    | 3,531,84          | 1,747,44         | 10,329,221      | 1,753,085                               | 61,160                                  | 1,811,246       | 152,144           | 20,387                      | 172,531         |
| CITY OF MANILA    | 1,723,147              | 1,464,188           | 258,959           | 200     | ¥.            | 292,838        | 3,064                       | 301,901           | 35         | 75 92                                 |                   |                  | 1, 585, 198     | 273,196                                 | 6.738                                   | 284.993         | 11 613            | 336 6                       | 15 96           |
| PASAT CITY *4.    | 475,225                | 326,828             | 148,397           | 200     | 2             | 92,366         | 5, 194                      | 10,560            | 35         | 75                                    | 3 310, (87        | 111,298          | (21.78          | 62,097                                  | 500                                     | 55              | 72                | 364                         | 125             |
| QUEZON CITY       | 2,323,154              | 1,860,880           | 162,274           | 200     | - ·           | 372,176        | 16,180 ;                    | 388,356           | 8          | - ـ                                   | -ī                |                  | 1 272, 111, 542 | 157,567                                 | 12,135                                  | 345,702         | 18 639            | 10.5                        | 22 65           |
| CALOOCAN CITY **  | 1,164,610              | 233,27              | 326,356           | 8       | <br>-::       | 167,655        | 11,422                      | 179,017           | 8          |                                       |                   |                  | 999,214         | 150,889                                 | 3.567                                   | 159,458         | 16.765            | 2,356                       | 19 62           |
| LAS PLRAS FR      | 878,105                | 167,379             | 110,730           | 92      | **            | 153,476        | 3.8.5                       | 157,351           | - ·        |                                       | ·<br>             |                  | 135,320         | 130,454                                 | 2,301                                   | 133,381         | 23,021            | 656                         | 23, 990         |
| KALAT             | 553,794                | 182, 791            | 10,957            | 220     | 23            | 106, 215       | 2,485                       | 108,700           | ÷          | 75                                    | ~-                |                  | 511,905         | 100,001                                 | 1,864                                   | 102,768         | 5,31              | 621                         | 5,932           |
| EALABOR TA        | 360,515                | 288, 282            | 12,233            | 8       | ·             | 57,656         | 2,523                       | 60,185            | - 06       |                                       |                   |                  | 311,629         | 158-15                                  | 1,856                                   | 53,787          | 5,786             | 122                         | 193             |
| HANDALUYONG       | 305,315                | 242,650             | 62,565            | 200     | ~             | 48,530         | 2.13                        | 50, 723           | 3          |                                       |                   |                  | 211,516         | 46,103                                  | 539                                     | 47,748          | 2 125             | 200                         | 2.975           |
| AARITSHA          | 183,621                | 35,170              | 83,151            | 202     |               | 160'62         | 3,085                       | 82,179            | 8          | _:_                                   |                   |                  | 441,810         | 75,139                                  | 2,316                                   | 71,453          | 1.955             | -                           | 1 726           |
| HONTINGEN PE      | 912 999                | (51,573             | 113,642           | 002     |               | 30,315         | 3,971                       | 34,232            | <br>20     |                                       |                   |                  | 690'695         | 16,767                                  | 2,983                                   | 19,750          | 13.547            | 766                         | 14, 542         |
| HAVOTAS 34        | 251,550                | 180,739             | 70,811            | 92      | <br>10        | 38,18          | 2,478                       | 38,626            | 35         | ÷.                                    | <del>-</del> -    | -                | 224,810         | 34,340                                  | 1,859                                   | 36,199          | 1.807             | 626                         | 7 277           |
| PARAHAQUE *s      | 541,964                | 502,098             | 39,866            | 250 2   |               | 125,525        | 1,395                       | 126,920           | 53         |                                       |                   |                  | 156.683         | 108.696                                 | 1.646                                   | 107,742         | 18, 220           |                             | 101             |
| PASIG             | 648,283                | 100,210             | 128,982           | 200     | <br>33        | 103,860        | 115                         | 108,375           | 35         |                                       |                   |                  | 590 072         | 15, 557                                 | 3.386                                   | 102.051         | 1 2               |                             | 1               |
| PATSBOS *4        | 11,945                 | 66,282              | 8,663             | 200     | 33            | 13,256         | 303                         | 13,560            | 8          |                                       |                   | · <u>-</u> -     | 66 151          | 11.931                                  | 22.                                     | 12,158          | 325               | 1                           | 775.0           |
| SKN JUAN          | 141,007                | 130,635             | 10,372            | 250     | 35            | 32,659         | 163                         | 33,022            | 33         |                                       |                   |                  | 131,882         | 31,026                                  | 272                                     | 31.298          |                   | ÷                           | 1               |
| PAGUIG **         | 427,323                | 352,472             | 74,851            | 200     |               | 10,494         | 2,620                       | 13,11             | 8          |                                       | . <del>.</del> -  |                  | 373,363         | 53,445                                  | 1.565                                   | 65,430          | 570.7             | 1 13                        | 100             |
| NYTERSORY 48      | 118,117                | 149,840             | 281,971           | 002     | ¥3            | 89,963         | 9,869                       | 99,817            | 8.         |                                       | :<br>÷-           |                  | 616,334         | 80,971                                  | 7,402                                   | 88,373          | 8,937             | 2.467                       | 11.454          |
|                   |                        |                     |                   |         |               |                |                             |                   | ÷          |                                       |                   | ·                |                 | *************************************** |   |                 |                   |                             |                 |
| II. CAVITE        | 136,085                | 744, 387            | 11,698            | 007     | i             | 148,877        | \$                          | 149,287           |            | S .                                   | 644,697           | 96,434           | 651,190         | 128,939                                 | 22                                      | 129,167         | 19,538            | 182                         | 20,120          |
| BACOOR *f. a      | 311,838                | 109,444             | .38               | 200     | ¥3            | 61.889         |                             | 62,043            |            |                                       |                   |                  | 288.323         | - 303.65                                | 110                                     | 63 735          |                   |                             | ***             |
| CAVITE CITY #!    | 112,628                | 111,952             | 675               | 200     | 2             | 22,390         | 77                          | 22,414            | - ==       | - 5                                   |                   |                  | 112.528         | 191.19                                  |   | 20.12           | 2071              | d c                         | 777             |
| IXUS-#1           | 148,542                | 146,579             | 136.1             | 200     | 23            | 29,316         | S                           | 29,385            |            |                                       | <br>- :> -        | - <u>-</u> -     | [25,25]         | 21,852                                  |   | 24.886          | 757               | 7 3                         | 80) F           |
| KAYIT ST          | 15,401                 | 75,106              | 301               | 200     | <br>55        | 15,021         | =                           | 15,032            |            | =                                     |                   |                  | 75, 107         | 15,021                                  | =                                       | 15,012          |                   |                             |                 |
| HOVELBTA          | 30,955                 | 30,476              | 419               | 300     | <b>:</b>      | 6,095          | =                           | 6,112             | · ·        | 98 69                                 | 26,122            | 22               | 25, 751         | 5,284                                   | ======================================= | 5,296           | 311               | LO.                         | \$16            |
| KUSAKIU *I        | 61),11                 | 19,830              | C89.              | 200     | 3             | 14,156         | 138                         | 14,302            |            |                                       |                   |                  | 628,14          | 8,786                                   | H                                       | 8,818           | 5,380             | 105                         | 189             |
| III. 212AL        | 1,567,207              | 1,242,272           | 424,938           | 88      | ¥             | 216,131        | 15,185                      | 245,976           | 55         | **                                    | 1,006,835         | 211'19           | 1,057,947       | 130,411                                 | 2,405                                   | 192,815         | 16,331            | 12,780                      | 53,161          |
| ANGONO *r         | 80.738                 | 56,552              | 24,236            | 205     | -             | 11.583         | 87                          | 12,431            | 100        | 0,0                                   | 58.557            |                  | 58.652          | 11 581                                  | -                                       | ***             |                   |                             |                 |
| ANTIPOLO AL       | 435,886                | 376,317             | 59,569            | 29      | *             | 80,883         | 2,740                       | 63,623            | 23         | 15 53                                 | 215,933           |                  | 230.254         | 15,430                                  | 512                                     | 100 ST          | 98 151            | 9                           | 2               |
| BARAS. Fr.        | 24,182                 | 3,412               | 20,770            | 205     | 2             | 569            | 2                           | 1,329             | 100        | 1                                     | 3,412             |                  | 3,412           | 555                                     | -                                       | 559             |                   | 4 44                        | 7               |
| BINAMONAN *       | 11111591               | 100,061             | 51,050            | <br>502 | 7             | 22,135         | 2,063                       | 24,138            | 001        | <b>运</b>                              |                   |                  | 108,061         | 22,135                                  | -                                       | 22,135          | •                 | 2.063                       | 2.063           |
| CALMIA **         | 295,646                | 265,082             | 29,565            | 200     | 3             | 51,215         | 1,03                        | 54,251            |            | <u></u> -                             | :<br>             |                  | 261,641         | 11,895                                  | 116                                     | 18,671          | 5,322             | \$ P                        | 5.580           |
| CARDONA *1.       | 265.95                 | 3,74                | 33,504            | 502     | 3             | 66.            | 020                         | 2,115             |            |                                       |                   | ~                | 25.             | 98                                      |   | 1,095           | •                 | 1,020                       | 1,020           |
| TO VENEZUE OF     | 079107                 | 170'5               | con 61            | <br>G   | ;             | 999            | 25                          | 2417              |            |                                       |                   |                  | 4,821           | 800                                     | -                                       | 383             | <del></del>       | 190                         | 154             |
| NORTH-DARK        | 10,418                 | 11.06               | 100,11            | 671     | 2 :           | 25,01          | 900                         | 11,673            |            |                                       | : - :<br>- : -    | - 4-             | 25,318          | 90'6                                    | 220                                     | 5,28            | 1,391             | 347                         | 2,183           |
| PILITIA *         | 43,312                 |                     | 28.34             | 205     |               | 3.083          | 825                         | 976               |            | 9 50                                  |                   |                  | 11,34           | 766.2                                   |   | Z + 4 Z         | 0                 | 936                         | 365             |
| SAN KATSO *!      | 115,759                | 83,360              | 32,409            | 213     | <b>\$</b>     | 18,260         | 16                          | 19, 750           |            |                                       |                   |                  | 12,489          | 11, 103                                 |   | 20017           | 3 5               | 200                         | 200             |
| TANAT &F.         | 23,535                 | 10,939              | 42,596            | 202     | 23            | 8,385          | 1,366                       | 9,751             |            | 6                                     | 10,333            |                  | 40,939          | 382                                     |   | 435             |                   | 3.56                        | 356             |
| TATAL *A          | 191,131                | 17,418              | 19,73             | 200     |               | 32,484         | 690                         | 36,174            | 3,         | 72                                    | 159,676           |                  | 137,761         | 31,935                                  | 511 1                                   | \$2,153         | 3,548             | 172                         | 3 721           |
| TBAKSA 97         | 144177                 | 1,121               | 14,720            | 202     | 5             | 1,541          | 25                          | 2,039             |            | -                                     | 1,72]             |                  | 1,721           | 25.                                     |   | 1,58            |                   | 458                         | 158             |
| 101               | 14.072.900 111.306.345 | 11,308,345          | 9.756.555         | 202     | 15.15         | 584 299        | 97 141 19                   | 182.046           | 5          | 98                                    | 10, 233, 371      | 815 017          | 19 049 419      | 9 673 646                               | 1 202                                   | 195 840         |                   |                             |                 |
|                   |                        |                     |                   | -       |               |                |                             |                   |            |                                       |                   |                  |                 | 1 12 14 10 10                           | 1 903122                                | 2,130,266       | 1916,312,         | 32,349                      | 218'532         |

HOTS: 1. Areas with (4s) have suppressed demaid due to low water pressure, and be expected to be improved by ANSOP.

2. Areas with (4s) also have suppressed demaid due to low water pressure, and be expected to be improved by KSVDP.

3. Areas with (4f) have suppressed demaid due to limited water sources, and he expected to be improved by RANSP.

4. Areas with (4f) have suppressed area under BF139, and he expected to be improved by RANSP.

TABLE 6.2.12 COMMERCIAL WATER DEMAND GROWTH PROJECTION

|      | <u></u> _ |       |        | - v    |       |          |                      |         |    |       |     |        |       |         | + |
|------|-----------|-------|--------|--------|-------|----------|----------------------|---------|----|-------|-----|--------|-------|---------|---|
|      | 1         | CG(1) | COED(I | 11     | R1(I) | (CTI(I)  | (CPED(I)             | (I)SRI; | ł  | IR(I) | 1   | 11(1)  | ï     | DEMAND  | 1 |
| YEAR | •         | (1)   | (2)    | 1      | (3)   |          |                      | (6)     | i  | (7)   | 1   | (8)    | 1     | (9)     | 1 |
| 1990 |           | 5.98  | 1.06   | }<br>} | 6.34  | ; -3.34  | -0.11                | 0.37    | ,  | 6.71  | 1   | 1.0000 | 1     | 451,047 |   |
|      | į.        |       | 1.     | 1      |       | <b>!</b> | 1                    | !       | ŧ, |       | ŧ   |        | 1     |         | i |
| 1991 | ŗ.        | 5.70  | 1.06   | ŀ      | 6.04  | : -1.77  | ; -0.11              | 0.19    | 1  | 6.24  | 1   | 1.0624 | 1     | 479,177 | ŀ |
| 1992 | 1         | 3.55  | 1.06   | į      | 3.76  | ; -0.61  | ; ~0.11              | 0.07    | ;  | 3,83  | 1   | 1.1031 | . (   | 497,530 | ď |
| 1993 | į         | 4.51  | 1.06   | i      | 4.78  | : -0.54  | -0.11                | 0.06    | ;  | 4,84  | 1.  | 1.1564 | t     | 521,611 | ŧ |
| 1994 | ì         | 4.64  | 1.06   | ;      | 4.92  | 1.01     | ; -0.11              | -0.11   | i  | 4.81  | ;   | 1.2120 | i     | 546,686 | i |
| 1995 | į         | 4.22  | 1.06   | :      | 4.47  | -0.11    | ; -0.11              | 0.01    | 1  | 4.49  | 1.  | 1.2664 | E     | 571,207 | į |
|      | :         |       | 1      | •      |       | 1        | 1 2                  |         | į  |       | 1   |        | ŀ     |         | i |
| 1996 | į         | 4.06  | 1.06   |        | 4.30  | ; ~0.52  | 1 -0.11              | . 0.06  | :  | 4.36  | ŀ   | 1.3216 | 1.    | 596,116 | 1 |
| 997  |           | 3.83  |        | i      | 4.06  | : -0.62  | -0.11                | 0.07    | 1  | 4.13  | 1:  | 1.3762 | .   - | 620,724 | ŀ |
| 998  | 1.        | 3.60  | 1.06   |        | 1.0   | •        | -0.11                |         | į. | 3.88  | ,   | 1.4296 | ţ     | 644,807 | : |
| 999  |           | 3.60  | 1.06   | 4      | 3.82  | •        | -0.11                | T 14    | i  | 3.84  | i   | 1.4845 | •     | 669,568 | ; |
| 000  |           | 3.49  | 1.06   | •      | 3.70  | •        | -0.11                | •       | į  | 4.14  |     | 1.5459 | i     | 697,277 | ť |
| UUU  | ١.        | 5.45  | , 1.00 |        | . 0 0 | ,        |                      |         | ٠  |       | ÷   | *      |       |         | : |
| 2001 |           | 3.34  | 1.06   | ١.     | 3.54  | 0.22     | -0.11                | 0.02    | į  | 3.56  | į   | 1,6010 | į     | 722,132 | į |
| 2001 | 1         | 3.23  |        | 10.0   | 3.42  | •        |                      | •       | •  | 3.45  | - 1 | 1.6562 |       | 747,023 | • |
| ٠.   | í         |       | •      | •      | 3.31  |          |                      | •       | •  | 3,33  | •   | 1.7113 | •     | 771,893 | - |
| 2003 | į.        | 3.12  | •      | -      |       | ; -0.19  | •                    | •       | •  | 3.23  |     | 1.7667 | -     | 796,846 | - |
| 2004 | ì         | 3.03  | •      | -      | 3.13  |          | ; -0.11              |         | -  | 3.15  | •   | 1.8223 |       | 821,921 |   |
| 2005 | i         | 2.95  | 1.06   | i.     | 3.13  | , ~0.10  | 1 -0112              | 1 0.02  | 1  |       | ,   |        |       | 0       | , |
|      | :         |       | i      |        | o: 00 | 1 0 10   | . i<br>. i 6 : 1 1 ' | 0.02    |    | 3.05  | 1   | 1.8778 |       | 846,993 |   |
| 2006 | ;         | 2.86  |        | •      |       | -        | ; -0.11              | •       | -  | 2.96  | •   | 1.9335 |       | 872,101 | • |
| 2007 | i,        | 2.78  | •      | ٠.     |       |          | ; -0.11              |         | •  | 4.4   | -   |        |       | 14 × 12 | - |
| 8008 |           | 2.70  | •      | -      | 2.86  |          | } -0.11              | •       | •  | 2.88  | •   | 1.9892 | . •   | 897,204 | - |
| 2009 | 1         | 2.63  |        | •      | 2.79  | -        | ; -0.11              |         | •  | 2.80  | •   | 2.0449 | •     | 922,355 | - |
| 2010 |           | 2.57  | 1.06   | - }    | 2.72  | ; -0.13  | -0.11                | 0.01    | i  | 2.74  | i   | 2.1009 | i     | 947,613 | i |

SOURCE: (1) Studt Team, (2, 4, 5) CORPLAN

<sup>(1)</sup> GDP growth rate in service sector in real terms in year I (%)

<sup>(2)</sup> Output elasticity of consumption in service sector

<sup>(3)</sup> Increase rate by GDP growth in year I (1)x(2) (%)

<sup>(4)</sup> Tariff increase in real terms in year I (%)

<sup>(5)</sup> Price elasticity of consumption

<sup>(6)</sup> Increase rate by tariff increase in year I (4)x(5) (2)

<sup>(7)</sup> Increase rate in year I (%)

<sup>(8)</sup> Increase index in year I. (1.0000 in base year 1990)

<sup>(9)</sup> Projected total commercial demand (M3/D) (8) x 451,047

TABLE 6.2.13 MWSS COMMERCIAL CONSUMPTION PROJECTION

| -                      | 1950 Br                    | STIXATED (       | CONSUMPT        | KOJ                  |                    | 1881               |   |                           | 2000                    |                            |                          | 2005            |                            |                          | 2010                     |                            |
|------------------------|----------------------------|------------------|-----------------|----------------------|--------------------|--------------------|---|---------------------------|-------------------------|----------------------------|--------------------------|-----------------|----------------------------|--------------------------|--------------------------|----------------------------|
| PUNICIPALITY           | TOTAL<br>QT'T!<br>(#3/DAT) | X<br>IX<br>TOTAL | SEARS (T)       | PRIV.<br>Suab<br>(x) | TOTAL QT'TT (K3/D) | (0/cm)<br>(1,10/0) | PRIVATE<br>QT TT<br>(83/0)              | TOTAL<br>QT'T1<br>(8/8/0) | KYSS<br>QT'TY<br>(K3/0) | PUIVATE<br>QT'TY<br>(#3/0) | TOTAL<br>QT'T?<br>(H3/D) | 07,11<br>(0/01) | PRIVATE<br>QT'TT<br>(M3/0) | TOTAL<br>QT'T7<br>(K3/D) | EWSS<br>QT'T?<br>(E/2/b) | PREVATE<br>QT'TT<br>(83/0) |
|                        | 134,665                    | 96.4             | 8,5             | 21.5                 | 550,461            | 148,632            | 101,829                                 | 671,952                   | 561,191                 | 110,761                    | 792,069                  | 673,476         | 119,593                    | 913,195                  | 784,597                  | 128,498                    |
| faile *                | 136,183                    | 200              | 95              | -                    | 172, (62           | 167, 791           | 599'5                                   | 210,526                   | 205,861                 | 599'}                      | 248,160                  | 263             | 193                        | 501 982                  | 281,444                  | 1,865                      |
| say Cley ?             | 23,338                     | 6.5              | 2 5             |                      | 32,085             | 23 293             | 27 641                                  | 126, 204                  | 30,375                  | 27,641                     | 267 269                  | 131,177         | 27 641                     | 197 616                  | 211 921                  | 661,8                      |
| looksa City            | 15,088                     |                  | 10              | . 7.                 | 19.107             | 15,433             | 3.67                                    | 23.324                    | 19,650                  | 3.674                      | 27,494                   | 23.820          | 3.674                      | 31.693                   | 28.02                    |                            |
| Las Pinas              | 1,299                      | 2                | =               | 85.6                 | 5 (#               | 186                | 658                                     | 9,9,9                     | 959                     | 5,686                      | 7,833                    | 1,13            | 6.73                       | 9,031                    | 1,393                    | 1,128                      |
| katí *                 | 59,269                     | 13.1             | 80.2            | 19.8                 | 75,058             | 53,337             | 11,721                                  | 179,16                    | 19,903                  | 11,721                     | 108,003                  | 96,282          | 11,721                     | 124, 519                 | 112,798                  | 11,121                     |
| 11002 *                | 5,22                       | -73              | 51.4            | 85.                  | 6,618              | 09.                | 2,016                                   | 8,076                     | 6,060                   | 2,016                      | 9,519                    | 1,50            | 910'2                      | 10,975                   | 568,8                    | 2,016                      |
| ndaluyong *            | 13,338                     |                  |                 | 16.0                 | 18,831             | 14,783             | 227                                     | 20,620                    | 18,491                  | 2,128                      | 24,305                   | 22,177          | 2,128                      | 28,022                   | 25,000                   | 2,128                      |
| serifina<br>Kentinluna | 2000                       | 9 00             | 2 4             | 6.0                  | 10,521             | 100                | 16, 623                                 | 72.843                    | 22.                     | 4,104                      | 3,062                    | 1,011           | 14.997                     | 12,52                    | 2,132                    | 15, 291                    |
| Totas #                | 2 555                      | 9                | 40              | 23.                  | 3.353              | 22                 | 129                                     | 501.                      | 3,484                   | 129                        | 1836                     | 4, 218          | 23                         | 5.578                    | 358                      | 128                        |
| renegue                | 11,624                     | 5.6              | 57.7            | (2.3                 | 14,720             | 8 491              | 6,223                                   | 17,969                    | 10,372                  | 7,567                      | 21,181                   | 12,226          | 8,955                      | 24, 420                  | 11,095                   | 10,324                     |
| 2                      | 16,004                     |                  | <u>د</u>        | 3                    | 20, 268            | 11,838             | 8,431                                   | 24,741                    | 14,48                   | 10,292                     | 29,163                   | 17,031          | 12,132                     | 33, 623                  | 19,636                   | 13,987                     |
| teros                  | 5                          | 9                | 0.00            | 9                    | =                  | = :                | -                                       | \$2                       | 8                       | 0 !                        | 25                       | 102             | 0                          |                          |                          | - ;                        |
| r Juan *               | 523                        |                  | æ (             | ~ .                  | 10,510             |                    | 5                                       | 22,023                    | 12, 132                 | 22                         | 15, 122                  | 15,025          | 5 5                        | 11                       | 17,338                   |                            |
| rguig<br>alectreio     | 10.1                       | , e              | ,               |                      | 100                | 1068               | 1,029                                   | 202.0                     | 200                     | 5 291                      | 7,518                    | 200             | 6,237                      | 13.45                    | 20.7                     | 7,25                       |
|                        |                            |                  |                 |                      |                    |                    | 22                                      |                           |                         |                            | 200624                   | 2               |                            | ***                      |                          |                            |
| CAFITS                 | 6,393                      | 3                | 19.1            | 86.9                 | g, 103             | 1,550              | 6,554                                   | 3,892                     | 1,892                   | 8,000                      | 11,650                   | 2,230           | 9,430                      | 13,443                   | 2,571                    | 10,873                     |
| 1002                   | 116                        | 0.2              | \$0<br>62<br>62 | 12.4                 | 1,230              | 340                | 890                                     | 1,502                     | -511                    | 1,087                      | 1,770                    | 489             | 1,281                      | 2,041                    | 100                      | 11411                      |
| Carite City            | 1 4,207                    | 0.9              | -               | 2.3                  | 5,327              | 921                | 4,406                                   | 6,503                     | 1,124                   | 5,379                      | 1,556                    | 1,325           | 6,341                      | 828                      | 1,528                    | 1,110                      |
| 2                      | £ ;                        | ~ ·              | o,              | 6.<br>6.             | <br>25             | 23                 | 918                                     | 986                       | 100                     | 956                        | 1222                     | = :             | 1,174                      | e :                      | 138                      | 1,35                       |
| ŧ                      | 123                        | 9 6              | 9 5             | 0 6                  | 155                | ŝ                  | <del>ب</del> ج                          | 581                       | 5.5                     |                            | 222                      | 222             |                            | 256                      | 962                      |                            |
| losario                | 385                        | 77               | 2 2             | 30.5                 | - <del>-</del>     | ===                | =                                       | 255                       | . 25                    | 288                        | 101                      | ***             | 635                        | 868                      | <b>:</b>                 | 13.                        |
| 57218                  | 9,983                      | 2.               | 16.5            | 83.5                 | 15,888             | 5,109              | 10,559                                  | 20,285                    | 7,396                   | 12,885                     | 25,513                   | 10,320          | 15,193                     | 31,370                   | 13,854                   | 11,517                     |
|                        | -                          |                  |                 |                      |                    | 631                |   | 1.028                     | 1.038                   |                            | 1,585                    | 1.585           |                            | 2.31                     | 2.317                    | 0                          |
| intipolo               | 136.                       | 69               | 8               | 82.1                 | 1364               | 50                 | 3,499                                   | 5,205                     | 188                     | 1,271                      | 91139                    | 1,101           | 5,035                      | 1,074                    | 1,269                    | 5,805                      |
| . 22                   |                            | •                |                 |                      | 21                 | 23                 | •                                       | 29                        | 80                      | 0                          | 8                        | 8               |                            | =                        | 977                      | <b></b>                    |
| profess                |                            | :                | • ;             | , ,                  | 1 62               | 705                | • ;                                     | 2,180                     | 2,189                   | - ;                        | 8                        | E :             |                            | 75.                      | 727                      | - ;                        |
| Calate                 | 2ZQ**                      | · · ·            | + 21            | ·                    | 200                | 2 6                | 272                                     | 128                       | 200                     | 607                        | 102 9                    | 158             | 20.1                       | 2.5                      | £ 61.                    | 0010                       |
| la-Jala                | •                          |                  | ,               |                      | : 12               | : 53               | •                                       | 7.7                       |                         | . 0                        | Ξ                        | Ξ               |                            | 138                      | 138                      |                            |
| stalban                | 988                        | 0.2              | + 4             | 25.3                 | 1, 122             | 23                 | 1,069                                   | 1,370                     | 79                      | 1,305                      | 1,614                    | æ               | 1,539                      | 1,861                    | 83                       | 1,11                       |
| Ton.                   | •                          | •••              |                 | •                    | 151                | 61                 | -                                       | 251                       | 52.                     | 0.                         | 75                       |                 | 0 1                        | £ 5                      | £                        | 6                          |
| [1]]A                  |                            |                  |                 | . 5                  | 5                  | - 2                | 3 6                                     | 202                       | 252                     | 199                        | 726                      | 7 2             | -                          | 770                      | 25                       | 2 00                       |
|                        |                            |                  | ;               | ;                    | 3 2                | 2                  | -                                       | 282                       | 185                     | •                          | 1,176                    | 1,176           | •                          | 1,611                    | 1,67                     | -                          |
| rtay                   | 1,512                      |                  | 23.8            | 16.2                 | ਲ<br>ਜ             | 202                | 1,478                                   | 5,369                     | 565                     | 1,804                      | 2,192                    | 665             | 2,127                      | 3,219                    | 161                      | 2,452                      |
| 482                    |                            |                  |                 | ,                    | 2                  | 2                  | 7                                       | 967                       | <b>e</b>                | 5                          | 577                      |                 |                            | 919                      | 017                      | >                          |
| TOTAL                  | 451,047                    | 100.0            | er<br>99        | 23.7                 | 574,232            | 455,291            | 118,941                                 | 102,129                   | 570,478                 | 131,651                    | 829,242                  | 585,025         | 144,216                    | 958,009                  | 801,121                  | 156,888                    |
| ***************        |                            |                  | -               |                      | 4                  |                    | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                           |                         |                            |                          | ********        |                            |                          | ļ                        | Ì                          |

TABLE 6.2.14 INDUSTRIAL WATER DEMAND GROWTH PROJECTION

| ŧ  |         |   | 14 15 to 14 10 10 10 10 10 10 10 10 10 10 10 10 10 |     |        |        |       |         | · _ · |         | -   |        |        |       | -   |        |     |           |
|----|---------|---|--|-----|--------|--------|-------|---------|-------|---------|-----|--------|--------|-------|-----|--------|-----|-----------|
| į  |         | ł | IG(1)  | ; I | OED(I) | ) ¦ I  | R1(I) | ITI(I)  | )     | IPED(I) | 1   | IR2(I) | 1      | IR(I) | -   | II(I)  | ;   | DEMAND    |
| 1  | YEAR    | ł | (1)  | ;   | (2)    | ;      | (3)   | (4)     |       | (5)     | ;   | (6)    | ŀ      | (7)   | ŀ   | (8)    | 1   | (9)       |
| ì  |         |   |  |     |        |        |       |         |       |         | ••• |        |        |       |     |        |     |           |
| :  | 1990    | 1 | 8.61   | :   | 0.78   | ì      | 6.72  | -2.81   |       | -0.11   | ł   | 0.31   | ł      | 7.02  | ł   | 1.0000 | ŀ   | 439,394   |
| ł  |         | ł |  | 1   |        | 1      |       | 1       | 1     | ;       | ;   |        | ŧ      |       | 1   |        | :   |           |
| ŧ  | 1991    | ŀ | 4.23   | 1   | 0.78   | 1      | 3.30  | -1.77   | ,     | -0.11   | í   | 0.19   | i      | 3.49  | i   | 1.0349 | 1   | 454,747   |
| ;  | 1992    | 1 | 5.62   | ;   | 0.78   | :      | 4.38  | -0.52   | : ;   | -0.11   | ļ   | 0.06   | i      | 4.44  | 1   | 1.0809 | į.  | 474,941   |
| :  | 1993    | į | 5.10   | :   | 0.78   | ţ      | 3.98  | -0.45   | .     | -0.11   | ļ   | 0.05   | į      | 4.03  | ŀ   | 1.1244 | :   | 494,070   |
| ŧ  | 1994    | ; | 4.83   | ŀ   | 0.78   | t<br>ł | 3.77  | 0.84    | : 1   | -0.11   | ı   | -0.09  | 1      | 3.68  | 1   | 1.1658 | :   | 512,227   |
| i  | 1995    | 1 | 4.79   | ŀ   | 0.78   | 1      | 3.74  | -0.09   |       | -0.11   | i   | 0.01   | i      | 3.75  | 1   | 1,2094 | i   | 531,415   |
| 1  |         |   |  | i   |        |        |       | ì       | 1     |         | 1   |        | i      |       | ì   |        |     | · .       |
| •  | 1996    | i | 4.60   |     | 0.78   | 1      | 3.59  | -0.42   |       | -0.11   | •   | 0.05   | i      | 3.63  | i   | 1.2534 | i   | 550,728   |
| ì  | 1997    | i | 4.13   | ;   | 0.78   | ;      | 3.22  | -0.52   |       | -0.11   | E   | 0.06   | į      | 3.28  | į   | 1.2945 | i   | 568,784   |
| 1  | 1998    | 1 | 4.12   |     | 0.78   | į.     | 3.21  | -0.49   |       | -0.11   | ì   | 0.05   | Ì      | 3.27  | i   | 1.3368 | •   | 587,369   |
| ì  | 1999    | ì | 3.94   | ì   | 0.78   | :      | 3.07  | -0.17   | •     | -0.11   | i   | 0.02   |        | 3.09  | i   | 1.3781 | -   | 605,530   |
| ;  | 2000    | ì | 3.79   | ì   | 0.78   | :      | 2.96  | -3.97   |       | -0.11   | •   | 0.44   | i      | 3.39  | į   | 1.4249 | į.  | 626 075   |
| į  |         |   |  | Ĺ   |        | i      |       |         |       |         | :   |        | į.     |       | i   |        | i   |           |
| į  | 2001    | i | 3.67   |     | 0.78   |        | 2.86  | 0.19    | •     | -0.11   | i   | 0.02   |        | 2.88  | 1.  | 1.4659 | į   | 644,128   |
| •  | 2002    | • | 3,53   |     | 0.78   | :      |       | -0.17   | •     |         | Э.  | 0.02   | :      | 2.77  | -   | 1.5066 | •   | 661.984   |
| ٠. | 2003    | • | 3.39   | •   | 0.78   | !      |       | 0.16    | -     | 1.5.1   | •   | 0.02   | •      | 2.66  | -   | 1.5467 | •   | 679,604   |
| •  | 2004    | • | 3.29   | •   | 0.78   | 'n     | 2.57  | •       | -     | -0.11   | •   | 0.02   | :      | 2.58  | •   | 1.5866 | . • | 697,156   |
| -  | 2005    | • | 3.19   | •   | 0.78   | •      | 100   | -0.15   | •     |         | •   | 0.02   | :      | 2.50  | •   | 1.6264 | ٠,  | 714.618   |
| į  | ,,,,,,, | • | 0120   | į   | ••••   | •      |       | !       |       |         | :   |        | 1:     |       | !   |        |     |           |
| 1  | 2006    |   | 3.09   | !   | 0.78   |        | 2.41  | 0.14    | •     | -0.11   |     | 0.02   | i<br>F | 2.43  |     | 1.6658 |     | 731,952   |
| •  | 2007    | • | 3.00   | •   | 0.78   | •      |       | ! -0.14 | -     |         | •   | 0.02   | į      | 2.36  | -   | 1.7051 | •   | 749,192   |
| i  | 2008    | • | 2.91   | •   | 0.78   | -      | 2.27  | •       | •     | -0.11   | -   | 0.02   | •      | 2.29  | •   | 1.7440 | -   | 766,313   |
| ;  | 2009    | • | 2.83   | •   | 0.78   | •      |       | •       | •     | -0.11   | -   | 0.01   | ٠.     | 2.22  | •   | 1.7828 | -   | 783,338   |
| 1  | 2010    | • | 2.75   | •   | 0.78   | -      |       | •       | -     | ~0.11   |     | 0.01   | •      | 2.16  | •   | 1.8213 | •   | 800,253   |
| •  | 2010    | • | 4.13   | 1   | 0.10   | •      | 2.13  | , -0.13 | ١     | ~0,11   | •   | 0.01   | ,      | 4.10  | 3 . | 1,0213 | •   | 900,200 j |

SOURCE: (1) Study Team, (2, 4, 5) CORPLAN

- (1) GDP growth rate in industrial sector in real terms in year I (%)
- (2) Output elasticity of consumption in industrial sector
- (3) Increase rate by GDP growth in year I (1) \* (2) (%)
- (4) Tariff increase in real terms in year I (%)
- (5) Price elasticity of consumption
- (6) Increase rate by tariff increase in year I (4) \* (5) (%)
- (7) Increase rate in year I (%)
- (8) Increase index in year I. (1.0000 in base year 1990)
- (9) Projected total industrial demand (M3/D) (8) x 439,394

TABLE 6.2.15 MWSS INDUSTRIAL CONSUMPTION PROJECTION

| Controller   Control   C   |            |                          | 1980 B                      | STIEATED       | CONSUMPT | 108              |                          | 1995             |                            |                         | 2000                                    |   |   | 2002                                    |                            |                              | 2010            |                            |
|--|------------|--------------------------|-----------------------------|----------------|----------|------------------|--------------------------|------------------|----------------------------|-------------------------|---|---|---|---|----------------------------|------------------------------|-----------------|----------------------------|
|  |            |                          |                             |                |          |                  |                          |                  |                            |                         |   |   | ****                                    |   |                            |                              |                 |                            |
| 15,000   12,   | E          | /KUNICIPALITY            | 707.17<br>67.17<br>(83/047) | * # 101<br>101 | SHARS    | SEARE<br>(x)     | 107AE<br>41°17<br>(83/0) | 41'17<br>(13/0)- | PRIVATE<br>QT'TY<br>(83/0) | 37.45<br>11.15<br>11.15 | 64.TY                                   | PEFVATE<br>QT'TY<br>(83/0)              | 1014L<br>11 19<br>(018)                 | 64.13<br>(83/3)                         | PEIVATE<br>Q7*77<br>(83/9) | 107AE<br>(17.71)<br>(12.370) | 01.17<br>(13/0) | PRIVATS<br>67'11<br>(83/0) |
| 1.   1.   1.   1.   1.   1.   1.   1.  | 1.         | #23                      | 362,048                     | 82.4           | 22.5     | 17.5             | 437,871                  | 113,331          | 324,540                    | 515,863                 | 146,218                                 | 359,650                                 | 588,825                                 | 176,980                                 | 411,846                    | 659,386                      | 205,731         | 452,655                    |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   |            | ferils &                 | 23.403                      |                | 75.3     | 24.7             | 18.304                   | 22,519           | 5, 736                     | 13 146                  | 27.560                                  | 5.786                                   | 38.062                                  | 12, 276                                 | 7.786                      | 12,623                       | 15.837          | 586.5                      |
| 1.1.10         1.1.1 <t< td=""><td><u>~</u></td><td>asay City \$</td><td>4,293</td><td></td><td>7</td><td>200</td><td>5,192</td><td>1,817</td><td>2,0</td><td>8,115</td><td>2,72</td><td>3,373</td><td>5,381</td><td>3,607</td><td>375</td><td>818</td><td>17.</td><td>3,175</td></t<>   | <u>~</u>   | asay City \$             | 4,293                       |                | 7        | 200              | 5,192                    | 1,817            | 2,0                        | 8,115                   | 2,72                                    | 3,373                                   | 5,381                                   | 3,607                                   | 375                        | 818                          | 17.             | 3,175                      |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | -2         | ueson City 8             | 51,708                      | 8:11           | 7.7      | 9 23             | 62,538                   | 30,170           | 32,368                     | 13,677                  | 11,310                                  | 32,368                                  | 34,097                                  | 51,730                                  | 32,368                     | 94,175                       | 61,807          | 32,368                     |
| 1, 11, 11, 11, 11, 11, 11, 11, 11, 11,   | <u>:</u>   | Alookan City *           | 13,923                      |                | 66.5     | 33.5             | 16,839                   | 12,115           | 1,865                      | 19,839                  | 15,174                                  | 4,665                                   | 23,544                                  | 17,980                                  | 1,665                      | 25,358                       | 20,693          | 4,665                      |
| 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,   |            | an Pinas                 | 21,115                      | ~              | e ;      | e.               | 25,534                   | 587              | 25.                        | 30,086                  | 222                                     | 25.                                     |   | 22                                      | 1,087                      | 38,456                       | 75              | 18,111                     |
| 1,100   1,10   | ·          | skati #                  | ÷                           | ,              |          |                  | 521.6                    | 2,75             | 25.5                       | 11,458                  | 8,074                                   |   | 13,078                                  | 500                                     |                            | 99                           | 292 11          | m ;                        |
| No. 1, 100   |            | (4.16.000 *              | 156,83                      |                | 203      | 2 5              | 200 31                   | 10,573           | 200, 2                     | 107.62                  | 1 200 61                                | 7 484 7                                 | 31 40                                   | 18,830                                  | 14,935                     | 41,414                       | CC2 (27         | 435,43                     |
| 1,1,100   1,1,   |            | Ancelujung v<br>Leribine |                             | 3 0            | ? -      | 2                | 1 200 0                  | 100              | 2500                       | 10,10                   | 100 6                                   | 236                                     | 13.400                                  | 286                                     |                            | 15,005                       | 2.561           | 12.44                      |
| 1,722   0.5   51.5   51.2   5.40   2.40      | 6          | intinium.                | 34.360                      |                | 9.2      | 9                | 1,556                    | - 5-             | 11,459                     | 18, 958                 | 3                                       | 88                                      | 55,882                                  | 130                                     | 55, 751                    | 63                           | 9               | 62, 432                    |
| 1,170  |            | avotas t                 | 3,762                       | 6              |          | (6.2             | 4.550                    | 2,811            | 1.139                      | 5,360                   | 3,821                                   | 1,739                                   | 6,118                                   | 3.18                                    | 139                        | 5.852                        | 5 112           | 1.735                      |
| 1,100   10, 11   11   12   12   1,10   1,10   11   11   11   11   11   | - 2        | * ranaque                | 19,370                      | ÷              | 8.4      | 91.3             | 23,427                   | 2,031            | 21,396                     | 27,600                  | 2,393                                   | 25, 207                                 | 31,503                                  | 2, 131                                  | 28,172                     | 35,278                       | 3,059           | 32,220                     |
| 1,750  | -          | anig.                    | 68,156                      | 13.5           | 2:1      | 88               | 82,430                   | 9,770            | 72,659                     | 97,113                  | 11,511                                  | 85,602                                  | 110,847                                 | 13,139                                  | 97,108                     | 124,130                      | 14,113          | 109,417                    |
| 1,239   0,1   55.1   1,122   1,162   6,174   1,735   6,174   1,736   1,145     | Ξ.         | ateros                   | 1,160                       | -0             | 0.2      | 93.8             | 2,128                    |                  | 2,124                      | 105,5                   | ·                                       | 2,562                                   | 7,862                                   |   | 2,855                      | 3,205                        | 45              | 3610                       |
| 1,1,286   6,1      |            | ien Juen #               | 1,259                       | 3              | 95.3     |                  | 1,522                    | 1,463            | 55                         | 1,194                   | 1,735                                   | S                                       | 2,042                                   | 1,983                                   | 2                          | 2,293                        | 2,234           | 5                          |
| Table   Tabl   | =          | afuig                    | 41,208                      |                | 0.0      | 100.0            | 19,838                   | =                | 19,826                     | 58,715                  | ==                                      | 58,702                                  | 67,019                                  | 53                                      | 81,404                     | 16,050                       | Ξ               | 75,033                     |
| 1, 10, 10, 10, 10, 10, 10, 10, 10, 10,   | É          | alenguela .              | 27,763                      |                |          | 00<br>143<br>003 | 22,537                   | 1,406            | 32,111                     | 39,558                  | 1,656                                   | 37,902                                  | 45,153                                  | 1881                                    | 13,252                     | 20,564                       | 2,117           | 18,146                     |
| The    |            | 111190                   |                             |                |          |                  |                          | 1 400            | 6 199                      | 10 697                  |   | 9 9 9                                   | 317 13                                  | 030                                     | 0 679                      | *10 *3                       |                 | 16. 61                     |
| The   O.D.   100.0   O.D.   288   288   O.D.   1100   O.D.   1114     1114   O.D.   128   1128   1128   1128   O.D.   1100.0   O.D.   6594   6594   6418   128   128   128   1414   1414   1414   O.D.   1100.0   O.D.   6594   6594   6418   128      |            | .541.6                   | 1,000                       | 9:1            | 207      | 2                | 6,511                    | 1,362            | 1,165                      | 10,041                  | 70                                      | 163.0                                   | 1,11                                    | 1,690                                   | 31812                      | 16401                        | 95019           | egy far                    |
| 538         0.1         100.0         0.0         228         0.0         339         339         0         341         316         10         153         817         60         64         10         756         814         11         12         64         0         31         64         10         10         10         10         10         0         10  | Ξ.         | lacoor.                  | 2                           | 9              | 100.0    | 0.0              | \$3                      | 50               | 6                          | 901                     | 100                                     | 3                                       | Ξ                                       | 111                                     | 0                          | 128                          | 138             | •                          |
| 57.8         6.1         756         874         874         12         851         10.5         874         11.0         10.0         6.0         10.0         6.9         6.9         6.4         1.6         1.6         1.6         1.0  | .;<br>:    | svite City               | 238                         |                | 100.0    | 0.0              | 288                      | 288              | 0                          | 339                     | 339                                     |   | <br>                                    | 38                                      | 0                          | 2                            | 133             |                            |
| 13, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10   | ·          | ane:                     | 538                         |                |          | F- 6             | 929                      | 0                | 139                        | 39                      | = ;                                     | 756                                     | 200                                     | 24                                      | E7 60                      | 525                          | =               | 926                        |
| 5,530         1,13         1,14 <t< td=""><td>-</td><td>(AV)t</td><td>÷ 2</td><td></td><td>100.0</td><td>3 4</td><td>100</td><td>450</td><td></td><td>213</td><td>P</td><td></td><td></td><td></td><td>&gt; &lt;</td><td>Ch1-</td><td>501</td><td><b>-</b></td></t<>  | -          | (AV)t                    | ÷ 2                         |                | 100.0    | 3 4              | 100                      | 450              |                            | 213                     | P                                       |   |   |   | > <                        | Ch1-                         | 501             | <b>-</b>                   |
| 76,308         16,0         2,8         91,2         90,479         3,247         97,131         108,913         5,440         103,472         125,524         1,576         14,6754         14,6754         14,6754         14,6754         14,6754         14,6754         14,6754         14,6754         14,6754         14,635         15,026         1,284         1,570         4,170         2,502         15         16         <  |            | OVEICE                   | 23                          |                | 71007    | 9.50             | 101                      | 207              | 187.9                      | 071                     | 2 7                                     | 7,635                                   | 7.5                                     | 7 60                                    | 3 2 E                      | 10.071                       | 121             | 9.55                       |
| Totago   T   |            |                          |                             |                |          |                  |                          |                  | 1                          |                         |   |   |   |   |                            |                              |                 |                            |
| 15,753   3.1   12.9   871   16,688   2,145   14,542   19,661   1,557   2,144   2,884   1,284   1,577   2,179   4,170   2,502   15,170   2,502   15,170   2,502   15,170   2,502   15,170   2,502   15,170   2,502   15,170   2,502   15,170   2,502   15,170   2,502   15,170   2,502   15,170   2,502   15,170   2,502   15,170   2,502   15,170   2,502   15,170   2,502   15,170   2,502   15,170   2,502   15,170   2,502   2,50   | Ħ          | RIZAL                    | 70,308                      | 16.0           | 2,8      | 97.2             | 90,479                   | 3,347            | 111, 18                    | 108,913                 | e) (40                                  | 21), (01                                | 127,524                                 | 8,148                                   | 118,375                    | 146,764                      | 14,834          | 131,930                    |
| 13,753   3.1   12.9   87.1   16,688   2,145   14,544   19,661   15,577   17,134   22,441   2,884   19,557   25,139   3,230   14,6   14,642   14,642   12,681   13,641   12,844   19,557   25,139   3,230   14,6   14,642    |            | peope                    |                             |                |          |                  | 1,321                    | 196              | 526                        | 1,850                   | 555                                     | 1,295                                   | 2,854                                   | 1,284                                   | 1,570                      | 4,170                        | 2,502           | 1,658                      |
| 1.6         2.5         4.6         2.0         4.6         114         6.6         73         2.5         15.1         7.98         4.78         1.17         2.747         5.779         2.578         3.151         7.98         4.781         1.58         4.78         1.58         4.78  | ٠,         | latipolo                 | 13,793                      | 3.1            | 12.9     | 87.1             | 16,588                   | 2,145            | 14,543                     | 19,61                   | 23                                      | 17 134                                  | 22,441                                  | 2,834                                   | 19,557                     | 25,130                       | 3,230           | 21,901                     |
| 1          | <u>.</u>   | laras                    | •                           |                | i .      | •                | 9                        | •••              | 23                         | 3                       | 2                                       | ======================================= | Ξ.                                      | 3                                       | 2                          | 252                          | 5               | 0                          |
| 25, 21, 25, 27, 27, 27, 27, 27, 27, 27, 27, 27, 27   | چ          | Sinangonan               |                             |                |          |                  | 2007                     | 2.5              | 2,081                      | 3,924                   | 1111                                    | 2 2                                     | 67L'C                                   | 2)2                                     | 10145                      | 2007                         | 181,            | 3,137                      |
| 1,358         0.71         0.5         93.4         3,578         2.2         971         2.9         68         224         92         112         355         213         213         4,781         28         4,784         5,388         31         213         4,781         28         4,784         5,388         31         28         355         155         28         155         28         155         28         316         28         156         32         778         350         4,784         5,388         31         522         478         350         4,813         4,813         4,813         4,813         43         88         150         1,813         43         88         1,813         43         88         1,813         43         88         1,113         43         43         88         1,113         43  | <br>       | iatore.                  | 729 1 25                    |                | · ·      | , .              | 100,01                   | 2 2              | 13,140                     | 010,16                  | 8 6                                     | 150 15                                  | 200                                     | 2                                       | 160,00                     | 305                          | 2 62            | 99,60                      |
| 1,588         0.1         0.5         99.4         3,578         21         4,215         24         4,191         4,481         28         4,784         5,388         31         559         150         281         559         31         558         150         281         559         150         282         150         282         150         282         150         282         150         282         150         282         150         282         150         282         150         282         150         282         150         282         150         282         150         282         150         282         150         282         150         282         150         282         150         282         150         282         251         260         1701         392         282         150         282         251         251         251         251         252   |            | a la-Jala                |                             | · •            |          | ,                | 77                       | 3 47             | 22                         | 67                      | 23                                      | 3                                       |   | 22                                      | 112                        | 355                          | 42              | 77                         |
| 553         51         44         209         417         115         316         526         150         428         410         62         117         350         428         410         62         110         39         428         410         62         110         39         421         110         30         110         30         110         30         310         110         30         30         110         30         30         110         30         30         110         30         30         120         30         120         30         120         30         30         120         30  | ند.<br>ده: | (cutalban                | 2,958                       | :              | 5.0      | * 88             | 3,578                    | ដ                | 3,557                      | 1,215                   | 25                                      | 4,191                                   | 18.                                     | 83                                      | 4,784                      | 5,388                        | =               | 5,357                      |
| 658         0.1         8.3         117         135         617         135         292         178         350         428         1,104         662           16,12         3.0         1.4         389         2,118         351         1,195         1,019         100           16,12         3.0         2.1         3.0         2.1         3.0         1,195         1,019         100           16,12         3.0         2.1         3.0         3.0         3.0         1,81         100         1,81         100         1,81         1,81         100         1,81 <td>-</td> <td>lorong</td> <td></td> <td></td> <td></td> <td>•</td> <td>**</td> <td>9</td> <td>284</td> <td>55</td> <td>135</td> <td>316</td> <td>236</td> <td>582</td> <td>350</td> <td>286</td> <td>525</td> <td>352</td>   | -          | lorong                   |                             |                |          | •                | **                       | 9                | 284                        | 55                      | 135                                     | 316                                     | 236                                     | 582                                     | 350                        | 286                          | 525             | 352                        |
| 558 0.1 8.3 91.7 195 66 770 938 78 050 1,011 89 982 1,189 100 1,011 89 982 1,189 100 1,011 | =          | alitin.                  |                             |                |          | • )              | 100                      | <b>=</b> ;       | 8                          |                         | 52                                      | 232                                     | 90<br>2                                 | 22                                      | 23                         | ğ.                           | 23              | 7                          |
| 3.8 0.5 20,64 105 20,055 23,755 124 23,522 2,115 141 26,975 30,355 158 158 158 158 158 158 158 158 158 1   | ä          | in lateo                 | 858                         | <br>خه         |          | <b>3</b>         | 200                      | 92               | 200                        | 938                     | 2 -                                     | 093                                     | 5                                       | 500                                     | 282                        | 1,139                        | 600             | 1,099                      |
| 100.0 19.2 80.8 630.861 118.068 418,733 634,808 153,235 481,513 721,735 187,997 539,798 818,367 223,557  |            |                          | 16.672                      |                | 5.0      | 5 56             | 20,164                   | 105              | 20.059                     | 23.756                  | 2                                       | 23.632                                  | 27,116                                  | 2                                       | 26,975                     | 10,165                       | 128             | 30.267                     |
| 656,851 118,068 (18,792 634,608 163,235 (48,513 727,795 187,997 539,798 818,967 223,557  | =          | leresa                   |                             |                |          | •                | 173                      | 9                | 143                        | 982                     | 65                                      | 200                                     | =                                       | \$81                                    | 126                        | 570                          | 25              | 228                        |
| 1 100/1001   100/1017   100/1017   100/1017   100/1017   100/1017   100/1017   100/1017   100/1017   100/1017  | <u> </u>   |                          | 100 901                     |                |          | 0 98             | 130 963                  | 130 000          | 110 000                    | 631 649                 | 189 905                                 | 101 519                                 | 200 866                                 | 107 004                                 | 640 650                    | *30 000                      |                 | 107 444                    |
|  | _          | 10176                    | terice.                     |                | 367      |                  | 1001000                  | oppiery :        | 72 (032                    | 9996999                 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |   | 7 | 1 | 0031000                    | Incioro I                    | 100(03)         | ate tere                   |

\* Prive demand increase was assumed to be shouldered by KWSS only.

TABLE 6.2.16 SUMMARY OF PROJECTED WATER DEMAND (CASE 1)

| VPAD ! |           | MHSS SERVED WATER DEMAND | (M3/D)  | , pop de de pop pop del | •    | HWSS SERVICE    |             |
|--------|-----------|--------------------------|---------|---|------|-----------------|-------------|
|        | DOMESTIC  | COMMERCIAL INDUSTRIAL    |         | •   |      | DOM.   COM.     |             |
|        | 1,218,158 | 455,291   118,068        |         |   | •    | 73.6 79.3       | * •         |
|        | 1,293,719 | 478,328   125,113        |         |   |      | ; 75.9 ; 79.7 ; |             |
|        | 1,369,280 | 1 501,366 1 132,159 1    |         |   |      | 1 78.1 1 80.2 1 |             |
| 1998   | 1,444,840 |                          |         |   |      | 1 80.1   80.6   |             |
| 1999   | 1,520,401 |                          |         |   |      | 82.1   80.9     |             |
|        | 1,595,962 |                          | 532,752 | 2,952,487   | 21.4 | 1 83.9   81.2   | 24.1 ; 76.3 |
|        |           | 1 1 1                    |         | 1   | 1    | 1 1, 1          | •           |
| 2005   | 1,878,704 | 685,026   187,997        | 137,565 | 3,489,292   | 21.1 | 87.6   82.6     | 25.8 ; 78.6 |
| 2010   | 2,136,228 |                          | 847,102 | 4,008,108   | 21.1 | 89.7   83.6     | 27.3   80.1 |

|   |      | PRIVATELY SERVED WATER DEMAND (H3/ |       |          |   |            |    |         |  |  |  |
|---|------|------------------------------------|-------|----------|---|------------|----|---------|--|--|--|
|   | YEAR |                                    | 0     | OMMERCIA | ! | INDUSTRIAL | .; | TOTAL   |  |  |  |
| - | 1995 | 436,105                            | <br>{ | 118,941  | : | 418,793    | ;  | 973,839 |  |  |  |
|   | 1996 | 410,155                            | 1     | 121,483  | ; | 431,337    | ŀ  | 962,975 |  |  |  |
|   | 1997 | 384,204                            | ŧ     | 124,025  | į | 443,881    | :  | 952,110 |  |  |  |
|   | 1998 | 358,254                            | 4     | 126,567  | ì | 456,425    | ;  | 941,246 |  |  |  |
|   | 1999 | 332,303                            | į     | 129,109  | : | 468,969    | ţ  | 930,381 |  |  |  |
|   | 2000 | 306,353                            | 1     | 131,651  | ; | 481,513    | i  | 919,517 |  |  |  |
|   |      | 1                                  | 1     |          | ţ |            | ;  | •       |  |  |  |
|   | 2005 | 266,479                            | ı,    | 144,216  | ! | 539,798    | ;  | 950,493 |  |  |  |
|   |      |                                    | 1     |          | ţ |            | ;  |         |  |  |  |
|   | 2010 | 245,812                            | 1     | 156,888  | : | 595,310    | !  | 998,010 |  |  |  |

| YEAR |           |  |           |         |     |           |
|------|-----------|--|-----------|---------|-----|-----------|
|      |           | COMMERCIAL IN  | DUSTRIAL! | LOSS    | 1.  | TOTAL     |
| 1995 | 1,654,263 | 574,232  | 536,861 ; | 606,903 | 1   | 3,372,259 |
| 1996 | 1,703,873 | 599,811 ;  | 556,450   | 612,073 | i   | 3,472,208 |
| 1997 | 1,753,484 | ; 625,391 ;  | 576,040 ; | 617,243 | 1 1 | 3,572,157 |
|      | 1,803,094 |  | 595,629 ; | 622,412 | 1   | 3,672,106 |
| 1999 | 1,852,705 | 676,550  | 615,219 ; | 627,582 | 10  | 3,772,055 |
|      | 1,902,315 | and the second s | 634,808 ; | 632,752 | 1   | 3,872,004 |
| 1    | ŧ         | 1  | 1         |         | ;   |           |
| 2005 | 2,145,183 | 829,242  | 727,795 ; | 737,565 | 1   | 4,439,785 |
|      |           | 1 1  | 1         | 1.7     | 1   |           |
| 2010 | 2,382,040 | 958,009 ;  | 818,967 ; | 847,102 | 10  | 5,006,118 |

TABLE 6.2.17 SUMMARY OF PROJECTED WATER DEMAND (CASE 2)

| i<br>  |           | MWSS SERVED | HALLES     | THE CHAPTE |      |         | RATIO    |      |          | **** |        |
|--------|-----------|-------------|------------|------------|------|---------|----------|------|----------|------|--------|
| 1. N.  | DOMESTIC  | COMMERCIAL  | INDUSTRIAL | LOSS       | 1    | TOTAL   | ; X      | DOM. | ; com. ; | IND. | TOTAL  |
|        |           | 455,291     | 118,068    | 762,978    | 12,  | 554,495 | 29.9     | 73.6 | 79.3     | 22.0 | 72.4   |
| 1998   | 1,293,719 | 478,328     |            | 766,254    |      |         |          |      |          |      |        |
| 997 ;  | 1,369,280 | 501,366     | 132,159    |            |      |         |          |      |          |      |        |
| 1998   | 1,444,840 | ; 524,403   |            | 772,805    |      |         |          |      |          |      |        |
| 1999   | 1,520,401 | 547,441     |            | 776,080    |      |         |          |      |          |      |        |
| 2000 ; | 1,595,962 | ; 570,478 ; | 153,295    | 779,356    | ; 3, | 099,091 | 25.1     | 83.9 | 81.2     | 24.1 | 77.    |
| ŧ      |           | 1           |            | <b>;</b>   | ;    |         | <b>:</b> | :    |          | •    | 1      |
| 2005 ; | 1,878,704 | 685,026     | 187,997    | 909,422    | [ 3, | 661,149 | 24.8     | 87.6 | 82.6     | 25.8 | 1 79.4 |
|        | :         | 1           |            | 1          | ;    |         | ;        | !    | }        |      | ;      |
| 2010 : | 2,136,228 | 801,121     | 223,657    | 1,042,123  | ; 4, | 203,129 | 24.8     | 89.7 | 83.6 (   | 27.3 | 80.8   |

| YEAR | !        |     |           |       | TER DEMAN  |   | (M3/D)  |
|------|----------|-----|-----------|-------|------------|---|---------|
|      | DOMESTIC | 10  | OMMERCIAL | . [ ] | INDUSTRIAL |   | TOTAL   |
| 1995 | 436,105  | 1   | 118,941   | 1     | 418,793    | : | 973,839 |
| 1996 | 410,155  | 1   | 121,483   | ì     | 431,337    | ţ | 962,975 |
| 1997 | 384,204  | -   | 124,025   | ŧ     | 443,881    | į | 952,110 |
| 1998 | 358,254  | :   | 126,567   | i     | 456,425    | ŧ | 941,246 |
| 1999 | 332,303  |     | 129,109   | i     | 468,969    | ; | 930,381 |
| 2000 | 306,353  | :   | 131,651   | ŧ     | 481,513    | 1 | 919,517 |
|      | 1        | . } |           | ;     |            | ; |         |
| 2005 | 266,479  | : ; | 144,216   | ŧ     | 539,798    | ţ | 950,493 |
|      | 1        | ł   |           | ļ     |            | : |         |
| 2010 | 245,812  | :   | 156,888   | ì     | 595,310    | 1 | 998,010 |

| 1       | !          | TOTAL WATER DEMAND (M3/D)                   |
|---------|------------|---|
| 1       |            | COMMERCIAL INDUSTRIAL LOSS TOTAL            |
| •       | 1,654,26   | 3   574,232   536,861   762,978   3,528,334 |
| 1996    | ; 1,703,87 | 599,811   556,450   766,254   3,626,389     |
| 1997    | 1,753,48   | 1   625,391   576,040   769,529   3,724,444 |
| 1998    | 1,803,09   | 1   650,970   595,629   772,805   3,822,498 |
| 1999    | 1,852,70   | 5   676,550   615,219   776,080   3,920,553 |
| 2000    | 1,902,31   | 6   702,129   634,808   779,356   4,018,608 |
| 1 - 7 - | 1          |   |
| 2005    | 2,145,18   | 3   829,242   727,795   909,422   4,611,642 |
|         | 1          |   |
| 2010    | 2,382,04   | 958,009   818,967   1,042,123   5,201,139   |

TABLE 6.2.18 SUMMARY OF PROJECTED WATER DEMAND (CASE 3)

|        |           | MWSS SERVED WATER DEMAND (M3/D)         |            |                              |
|--------|-----------|---|------------|------------------------------|
| 1      | DOMESTIC  | (COMMERCIAL; INDUSTRIAL; LOSS ; TOTA    | .L ( %     | DOM.   COM.   IND.   TOTA    |
| •      | 1,218,158 |   |            | 73.6 79.3 22.0 73.           |
| _      | 1,293,719 | 1 478,328 ; 125,113 ; 957,289 ; 2,854,  |            | 75.9   79.7   22.5   74.     |
| -      | 1,369,280 | 1 501,366   132,159   964,510   2,967,  |            | ; 78.1   80.2   22.9   75.   |
| 1998   | 1,444,840 |   |            | 80.1   80.6   23.4   76.     |
| 1999   | 1,520,401 |   |            | 1   82.1   80.9   23.8   77. |
| 2000 ; | 1,595,962 | 1 570,478 1 153,295 1 986,173 1 3,305,  | 908   29.8 | 83.9   81.2   24.1   78.     |
| 1      |           |   | 1          |                              |
| 2005   | 1,878,704 | 1 685,026   187,997   909,422   3,661,  | 149   24.8 | 87.6   82.6   25.8   79.     |
| :      |           |   | :          | 1 1 1                        |
| 2010   | 2,136,228 | 1 801,121   223,657 (1,042,123 ( 4,203, | 129   24.8 | 89.7   83.6   27.3   80.     |

|        | YEAR | 1 | PRIVAT  | CEL | Y SERVED | W. | TER DEMAN | D<br> | (M3/D)  |
|--------|------|---|---------|-----|----------|----|-----------|-------|---------|
| !<br>! | IDAR | : | TOTAL   |     |          |    |           |       |         |
|        | 1995 | 1 | 436,105 | ţ   | 118,941  | :  | 418,793   | ;     | 973,839 |
| !      | 1996 | 4 | 410,155 | ;   | 121,483  | ;  | 431,337   | i     | 962,975 |
|        | 1997 | 1 | 384,204 | 1   | 124,025  | ŀ  | 443,881   | į     | 952,110 |
|        | 1998 | ţ | 358,254 | :   | 126,567  | 1  | 456,425   | ŧ     | 941,246 |
|        | 1999 | ï | 332,303 | ;   | 129,109  | ť  | 468,969   | ŀ     | 930,381 |
|        | 2000 | ; | 306,353 | ?   | 131,651  | ;  | 481,513   | ì     | 919,517 |
|        |      | ŀ |         | 1   |          | į  |           | i     |         |
|        | 2005 | ţ | 266,479 | 1   | 144,216  | :  | 539,798   | į     | 950,493 |
|        |      | 4 |         | ŀ   |          | i  | •         | ţ     |         |
|        | 2010 | i | 245,812 | ;   | 156,888  | į  | 595,310   | :     | 998,010 |

|      | :          |           | 7   | OTAL WAT  | ER    | DEMAND (M  | 3,  | (D)      |    | _:_ |         |
|------|------------|-----------|-----|-----------|-------|------------|-----|----------|----|-----|---------|
| YEAR | •          | DOMESTIC  | ; C | OMMERCIAI | G ;   | INDUSTRIAL | 1   | Loss     | ;  |     | TOTAL   |
| 1995 | - i ·<br>! | 1,654,263 |     | 574,232   | <br>; | 536,861    | :   | 950,068  |    | 3,  | 715,424 |
| 1996 | :          | 1,703,873 | 1   | 599,811   | ŀ     | 556,450    | i   | 957,289  | 1  | 3,  | 817,424 |
| 1997 | 1          | 1,753,484 | į   | 625,391   | ;     | 576,040    | ;   | 964,510  | i  | 3,  | 919,424 |
| 1998 | i          | 1,803,094 | í   | 650,970   | ł     | 595,629    | ţ.  | 971,731  | ŗ  | 4,  | 021,425 |
| 1999 |            | 1,852,705 | 1   | 676,550   | :     | 615,219    | !   | 978,952  | i  | 4,  | 123,425 |
| 2000 |            | 1,902,315 | 1   | 702,129   | ;     | 634,808    | ļ   | 986,173  | ţ  | 4,  | 225,425 |
|      | ł          |           | ;   |           | į     |            | ;   |          | ì  |     |         |
| 2005 | ;          | 2,145,183 | ;   | 829,242   | ;     | 727,795    | ;   | 909,422  | ;  | 4,  | 611,642 |
|      | :          | •         | t   |           | ļ     | •          | ;   |          | ł, |     | •       |
| 2010 | !          | 2,382,040 | 1   | 958,009   | ļ     | 818,967    | ; 1 | ,042,123 | ľ  | 5,  | 201,139 |

TABLE 6.2.19 DISTRIBUTION OF WATER DEMAND IN 1995, BY SOURCE

| HARICIDAPITA<br>CITA\ | WA        | TBR DBHAND ( | H3/D)     |       | (X)<br> GROUND |           | OWN (M3/D); PRIVATE<br>GROUND-; GROUND- | GROUND-   | G.V.<br>  SHARB |
|-----------------------|-----------|--------------|-----------|-------|----------------|-----------|---|-----------|-----------------|
|                       | HASS      | PRIVATE      | JATOT     |       | WATER          | YATER     | WATER WATER                             | TOTAL     | {x}             |
| I. NCR                | 2,597,312 | 1 742,276    | 3,339,588 | 98.3  | 1.7            | 2,552,414 | 44,898   742,276                        | 787,174   | 23.6            |
| 1. Kanila             | 681 100   | 29,796       | 710,897   | 100.0 | 0.0            | 681,100   | 0   29,796                              | 29,796    | 1.2             |
| 2. Pasay City         | 105,590   | 22,731       | 128,321   | 95.2  | 1.8            | 100,508   | 5,082 ; 22,731                          | 27,813    | 21.7            |
| 3. Quezon City        | 642,072   | 83,254       | 725,326   | 97.1  | 2.9            | 623,746   | 18,326   83,254                         | 101,580   | 14.0            |
| 4. Calcokan City      | 167,729   | 48,176       | 215,905   | 100.0 | 0.0            | 167,729   | 0   48,176                              | 48,176    | 22.3            |
| 5. Las Pinas          | 47,307    |              | 114,320   |       |                |           | 1,734   67,013                          |           |                 |
| 6. Makati             | 231,774   |              | 257,355   |       | 3.2            | 224,414   | 7,360   25,581                          |           | 12.8            |
| 7. Walabon            | 71,165    | 31,270       | 102,435   |       | 1.7            |           | 1,244   31,270                          | 32,514    | 31.7            |
| 8. Mandaluyong        | 95,271    | 10,729       | 106,000   |       | 0.0            | 95,271    | 0   10,729                              |           | 10.1            |
| 9. Marikina           | 90,788    |              | 105,169   |       |                |           | 0   14,380                              | 14,380    | 13.7            |
| 10. Muntinlupa        | 32,019    |              |           |       |                |           |   | 90,472    |                 |
| 11. Navotas           | 46,507    |              | 52,987    |       |                |           | 313   6,480                             | 6,793     | 12.8            |
| 12 Paranaque          | 113,095   |              | 183,025   | 98.4  |                | 111,327   | 1,768 69,929                            | 71,697    | 39.2            |
| 13. Pasig             | 130,063   |              | 220,336   | 99.8  | 0.2            | 129,807   | 256 90,213                              | 90,529    |                 |
| 14 Pateros            | 6,657     |              | 14,057    |       | •              |           | 0 7,401                                 | 7,401     | 52.6            |
| 15. San Juan          | 63,517    |              | 65,404    | 100.0 | 0.0            | 63,517    | 0   1,887                               | 1,887     | 2.9             |
| 16. Taguig            | 15,787    |              | 108,449   |       |                |           | 847 ; 92,662                            | 93,509    | 86.2            |
| 17. Valenzuela        | 56,841    | 57,261       | 114,101   | 38.3  | 1.7            | 55,892    | 949 ; 57,261                            | 58,210    | 51.0            |
| II. CAVITB            | 67,529    | 62,769       | 130,299   | 22.3  | 1 77.7         | 15,061    | 52,468   62,769                         | 115,237   | 88.4            |
| 1. Baccor             | 22,617    | 19,808       | 1 42,425  | 66.8  | 33.4           | 15,061    |   |           | 64.5            |
| 2. Cavite City        | 17,375    |              |           |       | 100.0          | 0         | 17,375   10,917                         |           | 100.0           |
| 3. Inus               | 11,245    |              |           | 0.0   |                | ; 0       | 11,245   12,480                         |           | 100.0           |
| 1. Kawit              | 10,929    |              | 13,971    |       | 100.0          | . 0       | 10,929   3,041                          | 13,971    |                 |
| 5. Noveleta           | 1,621     |              | 4,680     | •     | 100.0          | 0         | 1,621 3,059                             | 4,680     | 100.0           |
| 6. Rosario            | 3,742     | 13,464       | 17,205    | 0.0   | 100.0          | }<br>'    | 3,742   13,464                          | ; 17,205  | 100.0           |
| III. RIZAL            | 76,743    | 168,794      | 245,537   | 17.1  | 82.9           | 13,094    | 63,649   168,794                        | 232,443   | 94.7            |
| 1. Angono             | 4,628     | , 2,081      | 6,709     | 100.0 | 0.0            | 4,628     | 0   2,081                               | 2,081     | 31.0            |
| 2. Antipolo           | 19,999    |              | 57,816    |       | 100.0          | . 0       | 19,999   37,816                         | 57,816    | 100.0           |
| 3. Baras              | 188       |              | 784       |       | 100.0          | 0         | 188 596                                 |           | 100.0           |
| 4. Binangonan         | 10,414    |              | 15,604    | 0.0   | 100.0          | )         | 10,414 5,190                            | 15,604    | 100.0           |
| 5. Cainta             | 10,616    |              |           | 45.5  | 54.5           | 4,830     | 5,786 66,356                            |           | 93.7            |
| 6. Cardona            | 728       |              |           |       | 100.0          |           | 728 1,112                               |           | 100.0           |
| 7. Jala-Jala          | 109       | 564          | 673       | 0.0   | 100.0          | 0         | 109   564                               |           |                 |
| 8. Kontalban          | 5,680     | 7,918        | 13,599    | 0.0   | 100 0          | 1 0       | 5,680   7,918                           |           |                 |
| 9. Morong             | 1,419     | 1,145        | 2,564     | 0.0   | 100.0          | . 0       | 1,419   1,145                           | 2,564     | 100.0           |
| 10. Pililla           | 1,045     | 1,202        | 2,247     | 1 0.0 | 100.0          | 1 0       | 1,045   1,202                           | 2,247     | 100.0           |
| 11. San Mateo         | 6,648     | 7,502        | 14,150    | 0.0   | 100.0          | . 0       | 6,648 7,502                             | 14,150    | 100.0           |
| 12. Tanay             | 3,225     | 2,301        | 5,526     | 0.0   | 100.0          | 0         | 3,225   2,301                           | 5.526     | 100.0           |
| 13. Taytay            | 11.331    | 1 34,291     | 45,622    | 32.1  | 67.9           | 3,838     | 7,695 34,291                            | 11,985    | 92.0            |
| 14. Teresa            | 713       | 718          | 1,431     | 0.0   | 100.0          | 0         | 713 718                                 | 1,431     | 100.0           |
| JATOT                 | 2,741,584 | 973,839      | 3,715,423 | 94.1  | 5.9            | 2,580,569 | 161,015   973,839                       | 1,134,854 | ; 30.5          |

TABLE 6.2.20 DISTRIBUTION OF WATER DEMAND IN 2000, BY SOURCE

| † ~ ~ ~<br>!<br>! | CITY/                 | NA.       | TBR DBHAND | (K3/D)    |        | KDOWN (%)<br> GROUND- | HWSS BREAKD<br>BURFACE | OWN: (W3/D){<br>  GROUND- | PRIVATE<br>GROUND- | GROUND-   | G.W.<br>SHARB |
|-------------------|-----------------------|-----------|------------|-----------|--------|-----------------------|------------------------|---------------------------|--------------------|-----------|---------------|
| i<br>!            | HUNICIPALITY          | HVSS      | ; PRIVATE  | TOTAL     |        | WATER                 | WATER                  | WATER                     | WATER              | TOTAL     | (%)           |
| <br>!             | I. NCR                | 3,039,444 | 692,223    | 3,731,667 | 98.5   | 1.5                   | 2,994,546              | 44,898                    | 692,823            | 737,121   | 19.8          |
| ;<br>;1.          | Kanila                | 715,862   | 27,866     | 143,728   | 100.0  | . 0.0                 | 715,862                | 0 1                       | 27,866             |           | 3.7           |
| 2.                | Pasay City            | 122,662   |            | 142,280   | 95.9   | 4.1                   | 117,580                | ; 5,082 ;                 | 19,618             | 24,700    | 17.4          |
| 3.                |                       | 710,182   |            |           | 97.4   | 2.6                   | 691,856                | 1 18,326                  | 81,471             | 99,797    | 12.6          |
| 4.                | and the second second |           |            | 246,532   | 100.0  | 0.0                   |                        | 0 1                       | 38,462             | 38,462    | 15.6          |
| 5.                | Las Pinas             | 100,145   |            | 159,158   | 98.3   | 1.7                   | 98,411                 | 1,734                     | 59,013             |           | 38.2          |
| ξ.                | Kakati                | 258,098   | 20,844     | 278,943   | 97.1   | 2.9                   | 250,738                | 7,360                     | 20,844             | 28,204    |               |
| 17.               | Kalabon               | 87,616    | 27,304     | 114,921   | 98.6   | 1.4                   | 86,372                 | 1,244 {                   | 27,304             | 28,548    | 24.8          |
| 8.                |                       | 101,166   | 10,395     | 114,560   | 100.0  | 0.0                   | 104,166                | 1 0 1                     | 10,395             | 10,395    | 9.1           |
| 9.                |                       | 99,235    | 16,094     | 115,328   | 100.0  | 0.0                   | 99,235                 | 0 1                       | 16,094             |           | 14.0          |
| 10.               | Kuntinlupa            | 69,874    | 78,387     | 148,261   | 90.0   | 10.0                  | 62,855                 |                           | 78,387             |           | 57.6          |
| 11.               | Navotas               | 52,977    | 4,761      | 57,737    | 99.4   | 1 0.8                 | 52,664                 | 313 }                     | 4,761              | 5,074     | 8.8           |
| 12.               | Paranaque             | 149,761   |            | 205,861   | 98.8   | 1.2                   | 147,993                | 1,768                     | 56,100             | 57,868    | 28.1          |
|                   | Pasig                 | 150,009   | 101,430    | 251,439   | 99.8   | 0.2                   | 149,753                | 256                       | 101,430            | 101,686   | 40.4          |
|                   | Pateros               | 11,041    | 5,813      | 16,854    | 100.0  | 0.0                   |                        |                           | 5,813              | 5,813     |               |
| 15.               | San Juan              | 64,108    | 1.888      | 65,996    | 100.0  | 0.0                   | 64,108                 |                           | 1,888              | 1,888     | 2.9           |
| 16.               | Taguig                | 57,060    | 81,537     | 138,597   | 1 98.5 | 1.5                   |                        | ¦ 847 ¦                   |                    |           | 59.4          |
|                   | Valenzuela            | 78,578    | 61,241     | 139,818   | 98.8   | 1.2                   | 77,629                 | 949 ;                     | 61,241             | 62,190    | 1 44.5        |
| <br> <br>         | II. CAVITE            | 117,566   | 49,032     | 166,598   | 39.7   | ¦ 60.3                | 46,709                 | 70,858                    | 49,032             | 119,890   | 72.0          |
| 1                 | Bacoor                | 49,666    | 9,713      | 59,379    | 81.8   | 15.2                  | 42,110                 |                           | 9,713              |           | 29.1          |
| 2.                | Cavite City           | 23,500    | 9,649      | 33,148    |        |                       |                        | 23,500 ;                  | 9,649              |           |               |
| 3.                | Icus                  | 18,277    | 11,351     | 29,628    | 0.0    | 100.0                 |                        | 18,277                    | 11,351             | 29,628    |               |
| 4.                | Kawit                 | 15,328    | 1,855      | 17,183    | 30.0   |                       | 4,598                  | 10,730 ;                  | 1,855              |           |               |
| 5.                | Moveleta              | 4,558     | 1,702      | 6,260     | 0.0    | 100.0                 | 0 :                    | 1,558                     | 1,702              |           | 100.0         |
| 6.                | Rosario               | 6,238     | 14,763     | 21,001    | 0.0    | 100.0                 | 0                      | 6,238                     | 14,763             | 21,001    | 100.0         |
|                   | III. RIZAL            | 148,897   | 178,262    | 327,159   | 42.2   | 37.8                  | 62,799                 | 86,098                    | 178,262            | 261,360   | 80.8          |
| 1.                | Angono                | 7,907     | 2,419      | 10,326    | 100.0  | 0.0                   | 7,907                  | 0 ;                       | 2,419              | 2,419     | 23.4          |
|                   | Antipolo              | 30,215    |            | 75,498    |        |                       |                        | 28,381                    | 45,283             |           |               |
| 3.                | Baras                 | 291       |            | 949       | •      | : :                   |                        | 291                       | 658                | 949       | 100.0         |
| 4.                | Binangonan            | 16,775    | -          | 22,395    | : 0.0  | 100.0                 | 0                      | 16,775                    | 5,620              | 22,395    | 100.0         |
| 5.                | Cainta                | 38,463    |            | 103,625   | 84.1   | 15.9                  | 30,677                 | 5,786                     | 67,162             | 72,948    | 70.4          |
|                   | Cardona               | 971       |            |           |        |                       |                        |                           | 1,161              |           | 100.0         |
|                   | Jala-Jala             | 414       |            |           |        | 100.0                 |                        | 414.                      |                    |           | 100.0         |
|                   | Montalban             | 8,189     |            |           |        |                       |                        |                           | 8,566              | 15,250    |               |
|                   | Korong                | 1,928     |            |           |        | 100.0                 |                        |                           |                    | 3,144     |               |
|                   | Pililla               | 1,786     |            |           | 0.0    | 100.0                 |                        | 1,786                     | 1,302              | 3,088     | 100.0         |
|                   | San Kateo             |           | 7,844      | 18,198    | 21.5   |                       | 2,224                  | 8,130                     | 7,844              | 15,974    | 87.8          |
|                   | Tanay                 | 6,039     |            | 8,598     |        |                       |                        | 6,039                     | 2,559              | 8,598     | 100.0         |
|                   |                       | 26,346    | 33,120     | 59.466    | 70.8   |                       |                        |                           | 33,120             |           | 68.6          |
| 14.               | Teresa                | 1,219     | 739        | 1,958     | :0.0   | 100.0                 | 0                      |                           |                    | 1,958     |               |
|                   | TOTAL                 | 3,305,908 | 919,517    |           |        | \$.1                  | 3,104,053              | 201,854                   | 919,517            | 1,121,371 | 26.5          |

TABLE 6.2.21 DISTRIBUTION OF WATER DEMAND IN 2005, BY SOURCE

| 1            | CITY/<br>KUNICIPALITY | WA          | TBR DENAND | (H3/D)    |         | KDOWN (X) | LWSS BREAKD      | <ul> <li>I F 12</li> </ul> | 7.45             | GROUND-        | G.W.        |
|--------------|-----------------------|-------------|------------|-----------|---------|-----------|------------------|----------------------------|------------------|----------------|-------------|
|              | AURIGIPADIII          | HYSS        | ; PRIVATE  | l total   | T 5.6   | WATER     | SURFACE<br>WATER | GROUND-<br>WATER           | GROUND-<br>WATER | VATER<br>TOTAL | SHARE (X)   |
| 1            | I. MCR                | 3,311,729   | 1 711,915  | 4,023,644 | 98.6    | 1.4       | 3,266,831        | 44,898                     | 711,915          | 756,813        | 18.8        |
| 1            | . Kanila              | 738,301     | 27,472     | 765,773   | 100.0   | .0.0      | 738,301          | 0 ;                        | 27,472           | 27,472         | 3.6         |
| 12           | . Pasay City          | 136,214     | 16,708     | 152,922   | 96.3    | 3.7       | 131,132          | 5,082                      | 16,708           |                | 14.2        |
| · ¦3.        | . Queson City         | 760,536     | 81,874     | 842,410   | 97.6    | 2.4       | 742,210          | 18,326                     | 81,874           | 100,200        | 11.9        |
| ηH.          |                       |             | 33,970     | 269,237   | 100.0   | 0.0       | 235,267          | 0 }                        | 33,970           | 33,970         | 12.6        |
| <b> </b>  5. |                       | 140,422     | 59,684     | 200,105   | \$ 38.8 | 1.2       | 138,688          | 1,734                      | 59,684           |                | 30.7        |
|              | Makati                | 272,451     |            | 293,371   | 97.3    | 2.7       | 265,091          | 7,360                      | 20,920           |                | 9.6         |
| - [7,        |                       | 98,128      | 25,351     | 123,479   | 98.7    | 1.3       | 96,884           | 1,244                      | 25,351           | 26,595         | 21.5        |
|              | Kandaluyong           | 110,518     | 10,394     | 120,911   | 100.0   | 0.0       | 110,518          | 0                          | 10,394           | 10,394         | 8.6         |
|              | <b>Harikina</b>       | 105,535     | 18,090     | 123,625   | 100.0   |           | 105,535          | 0                          | 18,090           | 18,090         | 14.6        |
|              | ). Muntinlupa         | 89,985      | 83,225     | 173,211   | 92.2    | 7.8       | 82,966           | 7,019                      | 83,225           | 90,244         | 52.1        |
|              | Navotas               | 55,863      | 4,737      |           | 99.4    | 0.6       | 55,550           | 313                        | 1,131            |                | 8.3         |
|              | Paranaque             | 158,744     |            | 215,064   | 98.9    | 1.1       |                  | 1,768                      | 56,320           | 58,088         | 27.0        |
|              | Pasig                 | 161,455     | 115,717    | 277,172   | 99.8    | 0.2       | 161,199          | 256                        | 115,717          | 115,973        | 41.8        |
|              | Pateros               | 13,229      | 5,346      |           | 100.0   | 0.0       | 13,229           | 0                          | 5,346            |                | 28.8        |
|              | San Juan              | 64,133      |            | 66,020    | 100.0   | 0.0       |                  | 0 1                        | 1,888            |                | 2.9         |
|              | . Taguig              | 69,925      | 86,909     | 156,834   | 98.8    | 1.2       | 69,078           | 847                        | 86,909           |                | 56.0        |
|              | . Valenzuela          | 101,024<br> | 63,311     | 164,335   | 99.1    | . 0.9     | 100,075  <br>    | 949                        | 63,311 }         | 64,260         | 39.1        |
|              | II. CAVITE            | 144,680     | 44,868     | 189,548   | 41.3    | 58.7      | 59,719           | 84,961                     | 44,868           | 129,829        | 68.5        |
| 1 -          | Bacoor                | 59,874      |            |           | 87.4    |           | 52,318           | 7,556                      | 9,140            |                |             |
|              | Cavite City           | 28,461      |            |           | 0.0     | 100,0     | 0                | 28,461                     | 7,781            | 36,242         |             |
|              | Inus                  | 23,527      |            |           | 0.0     | 100.0     | 0 ;              | 23,527                     | 10,346           | 33,873         |             |
|              | Rawit                 | 18,502      | 603        | 19,105    | 40.0    | 60.0      | 7,401            | 11,101                     | 603              |                | 61.3        |
|              | Noveleta<br>Rosario   | 5,742       | 1,284      |           | 0.0     | 100.0     | 0 1              | 5,742                      | 1,284            |                | 100.0       |
| 1            | MASSITA               |             | 1: 191119  | 24,288    | 0.0     | 100.0     | 0                | 8,573                      | 15,715 ;         | 24,288         | 100.0  <br> |
|              | III. RIZAL            | 204,739     | 193,711    | 398,449   | 48.7    | 51.3      | 99,731           | 105,008 ;                  | 193,711          | 298,718        | 75.0        |
| <b>!1.</b>   | Angono                | 12,701      | 2,592      | 15,293    | 100.0   | 0.0       | 12,701           | 0 ;                        | 2,592            | 2,592          | 16.9        |
|              | Antipolo              | 39,332      |            | 90,506    | 21.8    | 78.2      | 8,572            | 30,760                     | 51,175           |                | 90.5        |
| <b>[3.</b>   |                       | 842         | 708        | 1,350     | 0.0     | 100.0     | 0                | 642                        | 708              |                | 100.0       |
| 14.          | Binangonan ¦          | 25,501      | 5,671      | 31,172    | 0.0     | 100.0     | 0 ;              | 25,501                     | 5,871            | 31,172         | 100.0       |
| ¦5.          |                       | 48,686      | 73,627     | 122,313   | 88.1    | 11.9      | 42,900           | 5,786                      | 73,627           | 79,413         | 64.9        |
|              | Cardona ;             | 1,347       |            | 2,535     | 0.0     | 100.0     | 0 ;              | 1,347                      | 1,188            | 2,535          | 100.0       |
|              | Jala-Jala             | 911         |            |           |         |           | 0 ;              | 911                        | 638              | 1,549          | 100.0 }     |
|              | Wontalban             | 10,188      |            |           |         | 65.6      | 3,504 ;          | 6,684 ;                    | 8,936            | 15,620         | 81.7        |
|              | Korong                | 2,833       |            |           |         |           | 0 !              | 2,833 }                    | 1,290 }          | 4,123          |             |
|              | Pililla ¦             |             | 1,356      |           |         | 100.0 ;   | 0 ;              | 3,462                      | 1,356            |                | 100.0       |
|              | . San Hateo           | 14,124      |            | 21,958    | 42.4    | 57.6      | 5,994 }          | 8,130 }                    | 1,833 ¦          | 15,963         | 72.7        |
|              | . Tanay               | 9,425       |            |           | 0.0     |           | 0 ;              | 9,425                      | 2,662            |                | 100.0       |
|              | Taytay                | 33,754      |            | 69,058    |         | 22.8      | 26,059           | 7,695                      | 35,304           |                | 62.3        |
| 1147         | . Teresa              | 1,832       | 730        | 2,562     | 0.0     | 100.0     | 0                | 1,832                      | 730 ¦            | 2,562          | 100.0       |
| ļ            | TOTAL                 | 3,661,148   | 950,493    | 4,811,641 | 93.6    | 6.4       | 3,426,281        | 234,867 ;                  | 950,493          | 1,185,360      | 25.7        |

TABLE 6.2.22 DISTRIBUTION OF WATER DEMAND IN 2010, BY SOURCE

|             | CITY/<br>HURICIPALITY | KYL         | BR DEHAND | (K3/D)     |       | RDOWN (%)<br> GROUND- | HWSS BREAKD<br>SURPACE | OWN (M3/D);<br>Ground- |           | GROUND-<br>WATER | G.V.<br>SHARB |
|-------------|-----------------------|-------------|-----------|------------|-------|-----------------------|------------------------|------------------------|-----------|------------------|---------------|
| i<br>!<br>! | DANIALABIII           | HVSS        | BELAVER   | ; TOTAL    |       | VATER                 | WATER                  | WATER                  | VATER     | TOTAL            | (X)           |
| t<br>t      | I. NCR                | 3,740,899   | 753,685   | 14,494,583 | 98.8  | 1.2                   | 3,696,001              | 44,898                 | 753,685   | 798,583          | 17.8          |
| 1.          | Manila                | 804,366     | 27,359    | \$ 831,725 | 100.0 | . 0.0                 | 804,366                | 0 ;                    | 27,359    |                  | 3.3           |
| 12.         | Pasay City            | 153,165     | 16,736    | 169,901    | 96.7  |                       | 148,083                | 5,082                  | 16,736    | 21,818           | 12.8          |
| :1.         | Quezon City           | 852,444     | 82,662    | 935,106    | 97.9  |                       |                        | 18,326                 | 82,662    | 100,988          | 10.8          |
| H.          | Calookan City         | 277,565     | 27,960    | 305,524    | 100.0 | 0.0                   | 277,565                |                        | 27,960    | 27,960           | 9.2           |
| 15.         | Las Pinas             | 179,932     | 69,889    | 249,821    | 99.0  | 1.0                   | 178,198                |                        | 69,889    | 71,623           | 28.7          |
| 6.          | Makati                | 302,437     | 21,036    | 323,473    | 97.6  |                       |                        | 7,360                  | 21,036    | 28,396           | 8.8           |
| 17.         | Malabon               | 114,113     | 22,979    | 137,092    | 98.9  | 1.1                   |                        | 1,244                  | 22,979    | 24,223           | 17.7          |
| 8.          | Handaluyong           | 122,989     | 10,456    | 133,445    | 100.0 | 0.0                   | 122,989                | 0 ;                    | 10,456    |                  | 7.8           |
| <u>ا</u> 9. | Harikina              | 117,556     | 20,112    | 137,668    | 100.0 | 0.0                   | 117,556                | 0 ;                    | 20,112    | 20,112           | 14.6          |
| 10.         | Muntinlupa            | 106,746     | 94,265    | 201,011    | 93.4  | 6.6                   | 99,727                 | 7,019                  | 94,265    | 101,284          | 50.4          |
| -           | Havotas               | 61,692      | 4,787     |            | 99.5  |                       | 61,379                 | 313 ¦                  | 4,787     |                  | 1.1           |
| 12.         | Paranaque             | 186,529     | 61,722    | 228,251    | 98.9  | 1.1                   | 164,761                | 1,768                  | 61,722 {  | 63,490           | 27.8          |
| 13.         | Pasig                 | 181,869     | 129,726   | 311,595    | 99.9  | 0.1                   | 181,613                | 256                    | 129,726   | 129,982          | 11.7          |
| 14.         | Pateros               | 18,376      | 1,600     | 20,975     | 100.0 | 0.0                   | 16,376                 | 0 - 1                  | 4,600     |                  | 21.9          |
| 15.         | San Juan              | 67,826      | 1,880     | 69,706     | 100.0 | 0.0                   | 67,826                 | 0,1                    | 1,880     |                  | 2.7           |
| 16.         | Taguig                | 88,247      | 90,416    | 178,664    | 99.0  | 1.0                   | 87,400                 | 847                    | 90,416    |                  | 51.1          |
| 17.         | Valenzuela            | 127,045     | 67,101    | 194,147    | 99.3  | 0.7                   | 126,096                | 949                    | 67,101 ¦  | 68,050           | 35.1          |
|             | II. CAVITE            | 178,439     | 41,718    | 220,157    | 41.8  | 58.2                  | 74,549                 | 103,890 ¦              | 41,718    | 145,608          | 66.1          |
| 1.          | Bacoor                | 71,216      | 10,799    | ; 82,015   | 89.4  | 10.6                  | 63,660                 | 7,556                  | 10,799    |                  |               |
| 2.          | Cavite City           | 32,500      | 7,310     | 39,810     | 0.0   | 100.0                 | 0 1                    | 32,500 ¦               | 7,310 ;   |                  |               |
| 3.          | Iaus                  | 33,381      | 6,818     | 40,199     | 0.0   | 100.0                 | 0 ;                    | 33,381 ¦               | 6,818     | 40,199           |               |
| 4.          | Kavit                 | 21,778      | 0         | 21,778     | 50.0  | 50.0                  | 10,889                 | 10,889 ;               | 0 ¦       |                  |               |
| 5.          | Noveleta              | 7,289       | 816       | 8,105      | 0.0   | 100.0                 | 0 1                    | 7,289                  | 816 ;     |                  | 100.0         |
| 6.          | Rosario               | 12,275      | 15,975    | ; 28,250   | 0.0   | 100.0                 | 0                      | 12,275                 | 15,975 {  | 28,250           | 100.0         |
|             | III. RIZAL            | 283,791 ¦   | 202,608   | 486,399    | 53.7  | 46.3                  | 152,420                | 131,371                | 202,608 ; | 333,979          | 68.7          |
| 1.          | Angono                | 19,296      | 2,516     | 21,812     | 100.0 | 0.0                   | 19,296                 | 0 }                    | 2,516 ;   | 2,516            | 11.5          |
| 2.          | Antipolo              | 53,929      |           | 109,309    |       |                       | 18,149                 | 35,780                 | 55,380    | 91,160           | 83.4          |
|             | Baras                 | 1,165       | 731       |            |       | 100.0                 | 0 }                    | 1,165                  | 731 ¦     | 1,896            | 100.0         |
| 4.          | Binangonan            | 36,874      |           |            | 0.0   | 1                     | 0                      | 36,874                 | 5,250 ¦   | 42,124           | 100.0         |
|             | Cainta                | 66,270      |           | 144,397    | 91.3  |                       | 60,484                 | 5,786                  | 78,127    | 83,913           | 58.1          |
|             | Cardona               | 1,825       | 1,178     | 3,003      | 0.0   | 100.0                 | 0                      | 1,825                  | 1,178 ;   | 3,003            | 100.0         |
|             | Jala-Jala             | 1,646       |           |            | 0.0   | 100.0                 | 0                      | 1,646                  | 632       | 2,278            | 100.0         |
|             | Kontalban             | 12,542      | 9,318     |            |       |                       | 5,858                  |                        | 9,318     |                  |               |
|             | Korong                | 4,076       |           |            |       | 100.0                 | 0                      | 4,076                  | 1,318     |                  | 100.0         |
|             | Pililla               | 5,108       |           |            | 0.0   |                       | 0                      | 5,108                  | 1,324 }   |                  | 100.0         |
|             | San Hateo             | 19,954      |           |            | 59.3  |                       | 11,824                 | 8,130 ¦                | 7,193 ¦   | 15,323           | 56.4          |
|             | Tanay                 | 13,968      |           |            | 0.0   |                       | 0                      | 13,968                 | 2,574     |                  |               |
|             | Taytay                | 44,504      |           |            |       |                       | 36,809                 | 7,695                  | 36,380    |                  |               |
|             | Teresa                | 2,634       |           |            | 0.0   |                       | 0                      | 2,634                  | 686       |                  | . 511 . * 5   |
|             | TOTAL                 | 4,203,129 ¦ | 998,010   | 5,201,139  | 93.3  | 6.7                   | 3,922,970              | 280,159                | 998,010 ; | 1,278,170        | 24.6          |

TABLE 6.2.23 ANALYSIS ON WATER SUPPLY AND SUPPLY CAPACITY

| <u>.</u> | TH SSAN                  | TER DEMAND (N3/D) | (3/0) |                  | HASS PRODUCTED      | PRODUCTION FROM SURFACE WATER      | FACE WATER          | ( (K3/D)        | EXCESS            | REGUIRED | GROUNDWATER S | irr supply |
|----------|--------------------------|-------------------|-------|------------------|---------------------|------------------------------------|---------------------|-----------------|-------------------|----------|---------------|------------|
| SAR      | TEAR TOTAL W/I CDS       | W/I CDS           | (x)   | EXISTING         | ANGAT<br>(ON-GOING) | WAWA UNIRAY<br>(PLANNED) (PLANNED) | UMIRAY<br>(PLANNED) | TOTAL<br>(H3/D) | PRODUCTION (M3/D) | KKSS     | PRIVATE       | TOTAL      |
| 500      | 2,741,584                | 3                 | 35.0  | 2,234,700        |                     |                                    |                     | 2,234,700       | (411,804);        | 161,015  | 973,839       | 1,134,85   |
| 986      | 2,854,449                | 99                | 34.0  | 2,234,700        | 1,231,200           |                                    | ,                   | 3,465,900       | 703,914           | 169,183  | 962,975       | 1,132,15   |
| . 66     | 2.967.314                | 5                 | 33    | 2,234,700        | 1,231,200           | 68,400                             | •                   | 3,534,300       | 556,833 1         | 177,351  | 952,110       | 1,129,46   |
| 00       | 3,080,178                | 673               | 32.0  | 2,234,700        |                     | 68,400                             | 738,700             | 4,273,000       | 1,280,051         | 185,518  | 941,246       | 1,126,75   |
| 566      | 3,193,043                | 30                | 31.0  | 2,234,700        |                     | 68,400                             | 738,700             | 4,273,000       | 11,164,570        | 193,686  | 930,381       | 1,124,068  |
| 000      | 2000 3,305,908 3,223,9   | 53                | 30.0  | 30.0 2,234,700   | 1,231,200           | 68,400                             | 738,700             | 4,273,000       | 11,049,088        | 201,854  | 919,517       | 1,121,37   |
| 908      | 3,661,148                | S                 | 25.0  | 2,234,700        | 1,231,200           | 63,400                             | 738,700             |                 | 724,110           | 234,857  | 950,493       | 1,185,360  |
| 010      | 2010   4,203,129   4,050 | 4,050,388         | 25.0  | 25.0   2,234,700 | 1,231,200           | 68,400                             | 138,700             | 4,273,000       |                   | 280,159  | 398,010       | 1,278,16   |

WATER PRODUCTION:

1. EXISTING; actual average production in last 5 years: 2,352,364 H3/D actual production loss in HWSS in 1990; 1.5%

assumed production loss in the future: 5%

2. ANGAT; AWSOP 15CMS x 95% (production loss: 5%) 3. WAWA; WARMSP 72MLD x 95% (production loss: 5%)

4. UMIRAY: UATP 9CMS x 95% (production loss: 5%) 5. Demand for MWSS in Angono and Taytay is assumed to be supplied with surface water through RPMSP.

TABLE 6.2.24 SUMMARY OF GROUNDWATER DISCHARGE (SCENARIO 1)

| T. NCR   32,951   44,528   44,828   44,888     1. Nanila   | 2010<br>2010<br>2010<br>10174<br>11,734<br>11,734<br>11,734<br>11,734<br>11,734<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,73   | 1990 1995<br>10, 937 666, 568<br>17, 997 18, 807<br>19, 134 86, 337<br>19, 134 86, 337<br>19, 176 10, 398<br>28, 176 23, 918<br>28, 177 10, 398<br>13, 573 14, 633<br>13, 573 14, 633<br>13, 573 14, 633<br>14, 66<br>17, 156 63, 128<br>17, 156 11, 148<br>66, 367 73, 928<br>33, 180 47, 210 | 2000<br>2000<br>27,866<br>19,618<br>31,471<br>38,462<br>59,013<br>20,644<br>27,304<br>10,395<br>16,094<br>17,304<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16,094<br>16 | 2005<br>2011<br>27,472<br>27,472<br>21,4472<br>21,4472<br>22,351<br>23,351<br>10,394<br>115,010<br>25,368<br>26,320<br>26,320<br>27,472<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,090<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000<br>18,000 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53,685<br>18,735<br>18,735<br>27,359<br>21,952<br>21,935<br>21,036<br>21,036<br>4,767<br>4,767<br>4,767<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4,760<br>4 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20,265<br>20,265<br>23,689<br>72,123<br>32,689<br>72,123<br>30,372<br>14,133<br>92,022<br>4,719<br>64,597<br>88,350<br>3,785<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1 | 27,321<br>27,866<br>24,700<br>29,737<br>89,737<br>10,395<br>10,395<br>10,395<br>10,395<br>10,395<br>10,395<br>10,395<br>10,395<br>10,395<br>10,395<br>10,395<br>11,398<br>11,398 | 27,472<br>27,472<br>21,790<br>100,200<br>39,270<br>61,418<br>28,280<br>26,595<br>10,394<br>18,090<br>90,244<br>18,090<br>90,244<br>18,090<br>11,368<br>11,368<br>11,368<br>11,368<br>11,368   | 22, 25, 25, 25, 25, 25, 25, 25, 25, 25,   |
| Hanila   | 5,082<br>118,326<br>11,734<br>11,734<br>11,734<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736<br>11,736   |  | -  |   | 18, 738<br>18, 738<br>27, 389<br>27, 980<br>20, 112<br>20, 112<br>20, 112<br>20, 112<br>20, 112<br>20, 112<br>20, 112<br>20, 112<br>20, 112<br>20, 112<br>4, 787<br>4, 787<br>4, 787<br>4, 787<br>4, 787<br>4, 787<br>67, 104<br>67, 104   | 12,665<br>22,458<br>115,510<br>27,476<br>28,305<br>28,305<br>28,305<br>113,673<br>4,157<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>1 | 20,265<br>23,689<br>32,969<br>30,312<br>24,133<br>9,685<br>14,833<br>92,022<br>4,119<br>64,590<br>3,785<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,4,799<br>1,4,799<br>1,148<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799  | 21,866<br>29,797<br>38,462<br>26,747<br>28,747<br>28,747<br>28,747<br>10,395<br>10,395<br>10,395<br>5,014<br>5,014<br>5,813<br>1,888<br>82,384<br>62,190                         | 27,472<br>21,472<br>33,970<br>33,970<br>61,418<br>61,418<br>61,418<br>61,418<br>61,418<br>10,394<br>10,394<br>115,973<br>5,965<br>5,973<br>5,988<br>115,973<br>5,346<br>64,260<br>64,260  | 27,35<br>21,05,98<br>27,96<br>27,96<br>27,96<br>22,53<br>22,53<br>22,53<br>22,53<br>22,53<br>23,10<br>10,45<br>11,29,98<br>11,29,98<br>11,88<br>11,88<br>11,88<br>11,88   |
| Paray City   | 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23,888<br>32,869<br>32,129<br>30,129<br>36,123<br>9,685<br>14,633<br>92,022<br>4,119<br>64,895<br>3,785<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,14 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165,510<br>27,476<br>28,305<br>28,305<br>28,905<br>119,027<br>113,573<br>4,157<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506<br>11,506     | 32,969<br>32,129<br>36,312<br>24,133<br>9,685<br>14,833<br>92,022<br>4,7119<br>64,835<br>11,148<br>74,799<br>48,159   | 59,787<br>56,462<br>26,747<br>26,747<br>26,747<br>10,395<br>110,395<br>111,686<br>101,686<br>101,686<br>111,988<br>1119,888  | 100,200<br>33,970<br>61,418<br>61,418<br>26,250<br>10,294<br>10,294<br>115,973<br>5,088<br>115,973<br>5,346<br>115,973<br>5,346<br>115,973<br>5,346<br>115,973  | 100,98<br>71,62<br>71,96<br>71,06<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15<br>10,15    |
| Las Pinas  | 1,734<br>1,734<br>1,244<br>1,244<br>1,246<br>2,00<br>2,00<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   |  |  |   | 27,980<br>69,889<br>22,108<br>20,112<br>20,112<br>4,725<br>4,600<br>1,880<br>1,880<br>67,118<br>1,880<br>67,118  | 27,476<br>83,305<br>13,905<br>13,673<br>8,976<br>113,573<br>4,157<br>11,305<br>11,756<br>67,007<br>11,756<br>67,007<br>84,897  | 32,969<br>36,312<br>24,133<br>9,885<br>14,833<br>92,022<br>4,119<br>64,897<br>88,950<br>3,785<br>11,48<br>11,48<br>48,159   | 38,462<br>60,747<br>28,548<br>10,395<br>18,094<br>85,408<br>57,608<br>101,686<br>101,686<br>5,813<br>1,888<br>82,394<br>62,396   | 33,970<br>61,418<br>61,418<br>26,528<br>10,294<br>118,090<br>90,244<br>5,085<br>115,978<br>115,978<br>115,978<br>115,978<br>115,978<br>115,978<br>115,978   | 71, 62, 71, 62, 71, 62, 71, 62, 72, 62, 23, 33, 42, 42, 42, 42, 43, 44, 44, 44, 44, 44, 44, 44, 44, 44  |
| Marithman  | 1,734<br>1,736<br>1,244<br>1,268<br>1,768<br>1,768<br>1,768<br>1,768<br>1,768<br>1,568<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556   |  |  |   | 65, 889<br>121, 036<br>120, 456<br>20, 112<br>20, 122<br>20, 126<br>1, 180<br>1, 180<br>67, 101<br>1, 118  | 28,305<br>19,027<br>19,027<br>19,575<br>17,395<br>4,157<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11,305<br>11, 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72,129<br>36,372<br>36,372<br>36,885<br>14,833<br>92,022<br>4,119<br>88,350<br>3,765<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,148<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,799<br>1,4,7   | 56,747<br>28,204<br>10,395<br>10,395<br>118,094<br>85,408<br>5,408<br>5,268<br>101,686<br>101,686<br>1,398<br>82,394<br>62,394<br>119,890  | 51,418 26,280 26,280 10,394 18,090 90,244 90,244 18,090 115,973 5,046 11,986 11,986 64,260  | 71,62<br>28,39<br>26,22<br>20,11<br>20,12<br>8,10<br>4,60<br>11,88<br>11,88<br>11,88<br>11,560  |
| Marketa  | 7,360<br>1,244<br>1,244<br>1,244<br>1,246<br>1,246<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366  |  |  |   | 22, 936<br>22, 873<br>20, 112<br>94, 265<br>4, 600<br>1, 880<br>99, 416<br>67, 718<br>1, 118<br>1, 118   | 28,951<br>19,027<br>13,573<br>97,395<br>4,157<br>11,305<br>75,007<br>1,756<br>67,007<br>84,897   | 36,212<br>24,133<br>9,885<br>14,833<br>92,022<br>4,715<br>64,897<br>88,950<br>3,785<br>11,148<br>74,799<br>48,159   | 28,548<br>10,395<br>110,395<br>110,395<br>110,395<br>5,014<br>5,014<br>5,813<br>1,888<br>62,384<br>62,139<br>119,890   | 26,280<br>26,595<br>10,030<br>118,030<br>118,030<br>90,244<br>5,050<br>5,050<br>115,368<br>115,368<br>115,368<br>115,368<br>115,368<br>115,368  | 28, 22, 22, 22, 21, 20, 111, 28, 49, 128, 48, 11, 28, 26, 28, 12, 26, 26, 25, 26, 26, 26, 26, 26, 26, 26, 26, 26, 26  |
| Marchan   1,244 1,244 1,244     Marchan   0  | 1,244<br>1,246<br>1,1766<br>1,1766<br>1,266<br>1,266<br>1,266<br>1,266<br>1,266<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366<br>1,366 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879<br>10,456<br>20,112<br>94,265<br>4,787<br>1,600<br>1,600<br>1,600<br>1,600<br>1,600<br>1,600<br>1,600<br>1,600<br>1,600<br>1,600<br>1,600<br>1,600<br>1,600<br>1,600<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1,100<br>1 | 19,027<br>8 976<br>13,573<br>97,395<br>4,157<br>71,305<br>76,007<br>1,756<br>67,007<br>84,897  | 24,133<br>9,685<br>14,633<br>92,022<br>4,715<br>64,897<br>88,950<br>3,785<br>11,148<br>74,799<br>48,159   | 28,548<br>10,395<br>16,094<br>85,408<br>5,074<br>57,668<br>101,686<br>5,813<br>1,888<br>82,384<br>62,384   | 26,595<br>10,394<br>18,090<br>90,244<br>5,055<br>58,085<br>115,973<br>1,386<br>91,756<br>84,260   | 10,451<br>10,451<br>10,125<br>11,25<br>11,25<br>11,28<br>11,28<br>11,28<br>11,28  |
| Manchallyong   | 1,768<br>1,768<br>1,768<br>1,768<br>1,768<br>1,756<br>1,03,890<br>1,03,890<br>1,03,890<br>1,03,890<br>1,03,890   |  |  |   | 10,458;<br>20,112;<br>94,255;<br>4,787;<br>61,722;<br>29,726;<br>4,600;<br>1,860;<br>1,860;<br>1,118;<br>41,718;   | 84,897   | 9,685<br>14,833<br>92,022<br>4,715<br>64,897<br>88,950<br>3,785<br>1,148<br>74,799<br>48,159  | 10,395<br>16,094<br>85,408<br>5,074<br>57,368<br>101,686<br>5,813<br>1,888<br>62,384<br>62,190   | 10,334<br>18,090<br>30,244<br>5,085<br>115,973<br>115,973<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346<br>1,346 | 10,45<br>20,111<br>20,125<br>5,100<br>4,60<br>1,88<br>1,28<br>81,28<br>68,05  |
| Huntinluya S,777 7,019 7 | 1,765<br>1,765<br>1,765<br>1,765<br>1,765<br>1,03,390<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,5 |  |  |   | 20,112;<br>94,265;<br>4,767;<br>61,722;<br>29,726;<br>4,600;<br>1,880;<br>90,416;<br>67,101;<br>41,718;  | 13,573<br>97,395<br>4,157<br>71,305<br>76,007<br>1,756<br>67,007<br>85,897   | 14,833<br>92,022<br>4,715<br>64,897<br>88,950<br>3,785<br>1,148<br>74,799<br>48,159   | 16,094<br>85,406<br>5,074<br>57,368<br>101,686<br>1,888<br>82,384<br>62,130  | 18,090<br>90,244<br>5,050<br>5,050<br>115,973<br>1,586<br>87,756<br>64,260<br>64,260  | 20,112<br>5,120<br>63,49<br>1129,98<br>1,88<br>1,88<br>1,88<br>1,560  |
| Mavotasa 5,777 7(19 7,019 7,019 Mavotasa 1,06 49 256 256 8 2 | 7,013<br>1,758<br>2,68<br>2,00<br>0,00<br>0,00<br>0,00<br>0,00<br>0,00<br>0,00<br>0,0  |  |  |   | 4,787   61,722   29,726   4,600   1,880   90,416   67,101   61,718   | 97,395<br>4,157<br>71,305<br>75,007<br>1,756<br>67,007<br>33,922<br>84,897   | 92,022<br>4,715<br>64,897<br>88,950<br>3,785<br>1,148<br>74,799<br>48,159   | 85,408<br>5,074<br>57,368<br>101,686<br>5,813<br>1,888<br>82,384<br>62,130   | 30,244<br>5,050<br>5,050<br>5,068<br>115,973<br>5,346<br>1,346<br>87,756<br>64,260  | 101,28<br>5,100<br>63,430<br>1,29,98<br>1,88<br>1,88<br>1,26<br>68,05   |
| Parenaque 1,147 1,768 Pasig 256 256 Pateros 0 0 0 San Juan 0 0 0 0 Antipolo 1,654 9,955 18,277 San   | 23.3<br>2.768<br>2.56<br>2.00<br>2.00<br>2.00<br>2.00<br>2.00<br>2.00<br>2.00<br>2.0   |  |  |   | 4,787;<br>29,726;<br>4,600;<br>1,880;<br>90,416;<br>67,101;<br>41,718;   | 4,157<br>71,305<br>76,007<br>1,756<br>67,007<br>83,922   | 4,715<br>64,897<br>88,350<br>3,785<br>1,148<br>74,799<br>48,159   | 5,074<br>57,868<br>101,686<br>5,813<br>1,888<br>82,384<br>62,130   | 5,050<br>58,088<br>115,973<br>5,346<br>1,888<br>87,756<br>84,260  | 5,10<br>63,49<br>4,60<br>1,88<br>81,26<br>81,26<br>68,05  |
| Pacing   1,47 1,788 1,788   1,788   1,788   1,788   1,788   1,788   1,788   1,788   1,788   1,788   1,788   1,788   1,788   1,788   1,788   1,788   1,788   1,788   1,788   1,888      | 1,766<br>256<br>0 0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0<br>0 0  |  |  |   | 61,722;<br>29,726;<br>4,600;<br>1,880;<br>90,416;<br>67,101;<br>41,718;  | 71,305<br>76,007<br>1,756<br>67,007<br>83,922<br>84,897  | 64,897<br>88,950<br>3,785<br>1,148<br>74,799<br>48,159  | 57,868<br>101,686<br>5,813<br>1,868<br>82,384<br>62,190<br>119,890   | 58,088<br>115,973<br>5,346<br>1,388<br>87,756<br>64,260   | 63,49<br>4,60<br>1,88<br>81,26<br>68,05   |
| Fateros 65 256 256 8a. Juan 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | 256<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20  |  |  |   | 29,726<br>4,600;<br>1,880;<br>90,416;<br>67,101;<br>41,718;  | 75,007<br>1,756<br>408<br>67,007<br>33,922<br>84,897   | 3,785<br>3,785<br>1,148<br>74,799<br>48,159   | 101,686<br>5,813<br>1,888<br>82,384<br>62,390<br>119,890   | 115,973<br>5,346<br>1,888<br>87,756<br>64,260   | 129,98<br>4,60<br>1,88<br>81,26<br>68,05  |
| Factors  | 847<br>847<br>949<br>949<br>1,056<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,556<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,566<br>1,5   |  |  | ,,,,,   | 4,600;<br>1,880;<br>90,416;<br>67,101;<br>41,718;  | 1,756<br>408<br>67,007<br>33,922<br>84,897   | 3,785<br>1,148<br>74,738<br>48,159  | 5,813<br>1,888<br>82,384<br>62,384<br>119,890  | 5,346<br>1,388<br>87,756<br>64,260  | 4,60<br>1,88<br>81,26<br>83,05<br>68,05   |
| Taguig   | 847<br>847<br>949<br>1 103,890<br>1 7,556<br>8 32,500<br>7 33,381<br>1 10,889  |  | _  |   | 1,880  <br>90,416 ;<br>67,101  <br>41,718 ;  | 408<br>67,007<br>33,922<br>84,897  | 1,148<br>74,799<br>48,159<br>101,090  | 1,888<br>82,384<br>62,190<br>119,890   | 1,388<br>87,756<br>64,260<br>129,829  | 1,88 81,26 68,05  |
| Valenturia   | 347<br>35,590<br>37,556<br>33,381<br>10,889  |  | _   .   .  | _   | 67,101;<br>67,101;<br>61,718;  | 87,007<br>83,922<br>84,897   | 74,798<br>48,159<br>101,090   | 82,384<br>62,190<br>119,830  | 87,756<br>64,260<br>129,329   | 81,26<br>68,05<br>145,60  |
| II. CAVIE   26,970   47,610   70,638   Emerore   6,314   7,556   7,556   Cavita City   6,714   11,326   20,988   Emerore   6,714   11,326   20,988   Emerore   6,714   11,326   20,988   Emerore   7,070   7   | 1 103,830<br>1,556<br>3 32,500<br>1 33,831<br>1 10,889   |  |  | _   _   _   | 67,101   | 33,922   | 101,090   | 62,190<br>119,890  | 129,829   | 145,60  |
| II. CAVIE   26,976   47,616   76,838     Baccor   6,314   7,556   7,556     Cavita City   6,714   11,826   20,888     Inus   1,654   9,955   18,777     Novalsta   7,070   7,070   7,070     Angono   29,808   58,698   16,775     Canita   3,785   4,706   5,706     Canita   3,785   4,706   971     Jala-Jain   2,077   414     Canita   7,070   7,070     Canita   7,070   7,070     Canita   7,070   7,706     Canita   7,706   7,706   7,706   7,706     Canita   7,706   7,706   7,706   7,706   7,706     Canita   7,706   7,706   7,706    | 7,556<br>3 32,500<br>7 33,381<br>1 10,869  |  | 49,032   |   | 41,718   | 84,897   | 101,090   | 119,830  | 129,829   | 145,60  |
| Eacoor 6,314 7.556 7,556 Cavite City 6,714 11,926 20,998 Image 1,654 9,955 18,277 Kavit 4,329 7,529 10,770 Nomeric 7,070 7,070 7,070 Nomeric 899 5,563 6,238 III. RILAL 29,608 58,898 86,098 11 Raras - 11,621 19,999 28,391 Baras - 145 291 Baras - 145 291 Baras - 145 5,388 16,775 Cainta 3,785 4,785 5,786 5,786 Cainta - 15,785 5,786 5,786 5,786 Cainta - 18,785 5,786 5,786 5,786   | 7,556<br>1 32,500<br>33,381<br>10,889  | ١ _ :  | 9 713  | ١.  |  |  |   |  |   |   |
| Image  | 33,500 : 33,381 : 10,889 :   |  | 74-17  |   | 10,799 :   | 38,524   | 28.517  | 17.259   | 2   | ď   |
| 1,654 9,955 18,277     Kavit   | 33,381   |  | 9,649  | _   | 7.330  | 11,042   | 18.914  | 30, 637  | 34.914  | 80.00   |
| Novalata   4,329 7,529 10,730     Novalata   7,070 7,070 7,070     Novalata   7,070 7,070 7,070     Nosario   889 3,563 6,238     III. RIZAL   29,608 58,898 86,098 11     Angono   29,808 28,201     Barak   2,38   | 10,889   |  | 11,351   | : 63  | 6,818  | 6.097  | 17.882  | 29.628   | 33.873  | 40.19   |
| Moveleta 7,070 7,070 7,070  Mosario 839 5,563 6,228  III. RILL   |  |  | 1,855  |   | 6  | 7,159  | 9.872   | 12,535   | 11,704  | 10.88   |
| Momento 889 5,563 6,238  III RILL 29,608 58,638 66,098 11  Angono 0 0 0  Antipolo 11,621 19,999 28,231  Binangonan 8,345 231  Cainta 3,785 4,736 5,766  Gardona 485 971  Jala-Jala 207 414   | 7,269  |  | 1,702  | -   | 816  | 12,729   | 10,750  | 8,772  | 8,354   | 3,10  |
| Antholo 11,621 19,999 86,098 1 Antholo 11,621 19,999 28,281 Bilangenan 8,398 16,775 Cainta 3,786 4,786 5,786 Cardona 485 971   | 12.275   | . !  | 14,763   |   | 15, 975  | 2,346  | 15, 173   | 21,001   | 24,288  | 28,250  |
| Antipolo 11,621 19,999 28,381 Barak 145 291 Binangonan 8,388 16,775 Cainta 3,765 4,765 5,786 Cardona 465 971 Jaia-Jala - 207 414   | 3 131,371; 1   | 41,838 160,050   | 178,262 1  | 93,711 2  | 02,508   | 171,646  | 218,948   | 264,360  | 298,718   | 333,87  |
| Angono 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | ÷  | i  | 1  | Ì   |  |  |   |  |   |   |
| 145 291 291 391 391 391 391 391 391 391 391 391 3  |  |  | <u>.</u> :   |   | 2,516  | •  | 1,210   | 2,419  | 2,592   | 2,51  |
| 3,775 4,706 5,785 4,706 5,785 971 465 971  | 1 186  | .*   |  |   | 55,380   | 55,776   | 64,718  | 73,654   | 81,934  | 91,16   |
| 3,785 4,786 5,786<br>485 971<br>207 414  | 36.876   |  |  | <u>.</u> :.   | 100  | ;<br>ì -   | \$2 <b>5</b>  | 50 t   | 1,350   | 1,69  |
| 485 971  | 5,786  |  |  |   | 1 101 10   | 107 434  | 200   | 77 0.0   | 31,272  | 2,12  |
| 10 - 207 - 414   | 1,825  |  |  |   | 1.178  |  | 1.067   | 2,135  | 2.535   | 2 %   |
|  | 1,648;   |  | ٠  |   | 632  | ·  | 512   | 1,024  | 1,549   | 2.27  |
| 5.00 5.68 5.680 6.684  | 6,684  | 8,030 8,298  | 8,566  | 8,936   | 9,318  | 11,273   | 13,878  | 15,250   | 15,620  | 16,002  |
| Horong - 964 1,928   | 4,075  |  |  | _   | 1,318;   | •  | 1,572   | 3,144  | 4,123   | 5,39  |
| 893 1,786  | 5,108  |  |  |   | 1,324  | •  | 1,544   | 3,088  | 4,818   | 6,43  |
| Transfer 1,700 6,646 8,130   | 8,130  |  |  |   | 7,193  | 8,347  | 12,391  | 15,974   | 15,963  | 15,32   |
| Tacker of the state of the stat | 13,968   |  | -  | <u>.</u>  | 2,574  |  | 4,299   | 8,598  | 12,087  | 16,54   |
| Teress 608 1.219   | 2.634  |  |  |   | 36,380   | 43,846   | 42,330  | 40,815   | 42,399  | 44,07   |
|  | 7  |  | _  | _   | 989  |  | 979   | 1,958  | 2,562   |   |

TABLE 6.2.25 SUMMARY OF GROUNDWATER DISCHARGE (SCENARIO 2)

| • |                         |           |        |              |           |         |           |           |          |           |         |           |         |               |   |          |   |
|---|-------------------------|-----------|--------|--------------|-----------|---------|-----------|-----------|----------|-----------|---------|-----------|---------|---------------|---|----------|---|
|   | HELEN                   |           |        | -            | HASS WELL |         |           | -         |          | PRIVATE W | 113     |           |         |               | TOTAL                                   |          |   |
|   | CITY/MUNICIPALITY: 1990 | ALITY:    | 1000   | 1995         | 2000      | 2005    | 2010      | 1930      | 1995     | 2000      | 2005    | 2010      | 1990    | 1935          | 2000                                    | 2005     | 2010                                    |
|   | I. NGR                  |           | 32,961 | 44,898       | 44,898    | 44,858  | 44,898    | 640,937   | \$66,530 | 692,223   | 650,888 | 652,943   | 673,898 | 711,478       | 737,121                                 | 705,786  | 697,841                                 |
|   | -                       |           | O      | 0            | ို        | 0       | 0         | 12,665    | 20,265   | 27,866    | 27,472  | 27,359    | 12,665  | 20, 255       | 27,866                                  | 27.472   | 27.359                                  |
|   | 2. Pagay City           | Ţ,        | 4,461  | 5,082        | 5,082     | 5,082   | 5,082     | 17,997    | 18,607   | 19,618    | 16,708  | 16,735    | 22,458  | 23,889        | 24,700                                  | 21,730   | 21,816                                  |
|   | 3. Quezon City          | - K1)     | 14,186 | 18,326       | 18,326    | 18,326  | 18,326    | 31,324    | 86,397   | 81,471    | 81,874  | 82,662    | 105,510 | 104,723       | 99,797                                  | 100,200  | 100,988                                 |
|   | 4. Calookan City        | city      | 0      | •            |           | 0       | Ģ         | 27,476    | 32,969   | 38,482    | 33,970  | 27,960    | 27,478  | 32,969        | 38,462                                  | 33,970   | 27,960                                  |
|   | 15. Las Pinas           |           | 1,527  | 1,734        | 1,734     | 1,734   | 1,734     | 81,778    | 70,395   | 59,013    | 54,444  | 59,540    | 33,305  | 72,129        | 50,747                                  | 56,178   | 61,274                                  |
|   | 6. Makati               |           | 3,772  | 7,360        | 7,350     | 7,360   | 7,360     | 25,179    | 23,012   | 20,844    | 20,920  | 21,036    | 28,951  | 30,372        | 28,204                                  | 28,280   | 28,398                                  |
|   | 7. Halabon              | ٠.        | 554    | 1,244        | 1,244     | 1,244   | 1,244     | 18,473    | 22,889   | 27,304    | 25,351  | 22,979    | 19,027  | 24,133        | 28,548                                  | 26,595   | 24,223                                  |
|   | 8. Handaluyons          |           | 0      | 0            | 0         |         | Ģ         | 8 976     | 9,685    | 10,395    | 10,394  | 10,456    | 8,978   | 9,585         | 10,395                                  | 10,394   | 10,456                                  |
|   | :9. Marikina            |           | ۰      | a            |           | •       | 0         | 13,573    | 14,833   | 16,094    | 16,326  | 16,526    | 13,573  | 14,633        | 16,094                                  | 16,326   | 16,626                                  |
|   | 10. Muntinlupe          |           | 5,777  | 7,019        | 7,019     | 7,019   | 7,019     | 91,618    | 85,003   | 78,387    | 74,043  | 76,108    | 97,395  | 220,28        | 85,406                                  | 81,062   | 83,127                                  |
|   | L. Navotas              |           | 106    | . 313        | 313       | 313     | 313       | 4,051     | 4,406    | 4,761     | 4,737   | 4,787     | 4,157   | 4,718         | 5,074                                   | 5,050    | 5,100                                   |
|   | 112. Paranaque          |           | 1,147  | 1,768        | 1,768     | 1,768   | 1,768     | 70,158    | 63,129   | 56,100    | 51,397  | 51,981    | 71,305  | 64,837        | 57,868                                  | 53,165   | 53,748                                  |
| • | 113. Panig              | ••        | 49     | 256          | 255       | 256     | 256       | 75,958    | 88,634   | 101,430   | 101,771 | 102,216   | 75,007  | 88,950        | 101,686                                 | 102,027  | 102,47                                  |
|   | 14. Pateros             |           | 0      | 0            |           |         | 0         | 1,756     | 3,785    | 5,813     | 4,992   | 3,304     | 1,758   | 3,785         | 5,813                                   | 4,992    | 3,90                                    |
|   | 115. Sen Juan           |           |        |              |           | :       | 0         | 408       | 1,148    | 1,888     | 1,888   | 1,880     | 408     | 1,148         | 1,888                                   | 1,888    | 1,88                                    |
|   | 126. Taguig             | , <b></b> | 640    | 647          | 647       | 847     | 847       | 66,367    | 73,952   | 81,537    | 77,597  | 72,057    | 67,007  | 74, 799       | 82,384                                  | 78,444   | 72,90                                   |
|   | 117. Valenzuela         |           | 742    | 949          | 96.9      | 949     | 949       | 33,180    | 47,210   | 61,241    | 57,005  | 54,657    | 33,922  | 48,159        | 62,190                                  | 57,954   | 55,60                                   |
|   |                         |           |        |              |           |         | -         |           |          | *****     |         |           |         |               |   |          | -                                       |
| - | II. CAVITE              |           | 26,970 | 47,610       | 70.858    | 70,859  | 76,859    | 57,927    | 53,479   | 49,032    | 42,252  | 36,511    | 84,897  | 101,090       | 119,890                                 | 113,111  | 107,37                                  |
|   | 1. Becoor               |           | 6,314  | 7,556        | 7,556     | 7,556   | 7,555     | 32,210    | 20,961   | 9,713     | 8,945   | 10,409    | 28,524  | 28,517        | 17,269                                  | 16,501   | 17,96                                   |
|   | 2. Cavite City          | try :     | 6,714  | 11,926       | 20,988    | 20,988  | 20,988    | 4,328     | 886,3    | 9,649     | 6,819   | 5,379     | 11,042  | 18,914        | 30,637                                  | 27,807   | 26,36                                   |
|   | S. Inua                 |           | 1,654  | 3,965        | 18,277    | 18,277  | 18,277    | 6,443     | 7,897    | 11,351    | 10,061  | 6,250     | 6,037   | 17,862        | 29,628                                  | 25,338   | 24,527                                  |
| - | 4. Kevit                |           | 4,329  | 7,529        | 10,730    | 10,730  | 10,730    | 2,830     | 2,342    | 1,855     | 603     | •         | 7,159   | 9,872         | 12,585                                  | 11,333   | 10,73                                   |
| - | 5. Noveleta             |           | 7,070  | 7,070        | 7,070     | 7,070   | 1,070     | 5,659     | 3,680    | 1,702     | 1,284   | 816       | 12, 729 | 10,750        | 8,772                                   | 8,354    | 7,88                                    |
|   | 6. Roserio              |           | 883    | 3,563        | 6,238     | 6,238   | 6,238     | 8,457     | 11,610   | 14,763    | 14,539  | 13,857    | 8,346   | 15,173        | 21,001                                  | Z0,777   | 19,89                                   |
|   | III. RIZAL              | Ţ.,       | 29,808 | 58,838       | 86,038    | 105,008 | 151,371   | 141,838   | 160,050  | 178,262   | 193,711 | 202,608   | 171,646 | 218,948       | 264,360                                 | 298,718  | 333,97                                  |
|   | •                       | <u>.</u>  |        |              |           |         |           |           |          |           |         |           |         |               |   |          | *************************************** |
|   | 1. Angono               | ·• ·      |        | - ;          | 9         | 3       | 3         | ŧ         | 0777     | 7         | 78517   | 970'7     | •       | 1,210         | 27.5                                    | 786'7    | 70.7                                    |
|   | Z. Antipolo             | •• •      | 11,621 | 686 61       | 28,381    | 30,760  | 35,780    | 44,155    | 64,719   | 45,283    | 51,175  | 1 092,480 | 55,776  | 64, 718       | 73,864                                  | 52, 254  | 91,16                                   |
|   | out and                 |           |        | 220          | 100       | 35 674  | 70767     |           | 6.00     | 200       | 3 5     |           |         | 900           | 100                                     | 200      | 1                                       |
|   | . S. Saints             | - ,-      | 7.785  | 4,786        | 5,785     | 5.786   | 5,786     | 48.619    | 57.891   | 67.162    | 73.627  | 78.127    | 52.404  | 62.676        | 72.948                                  | 70.413   | 83.91                                   |
|   | f. Cardona              | •         |        | 885          | 971       | 1,347   | 1.825     | ,         | 582      | 1.164     | 1,188   | 1,173     | : 1     | 1 067         | 2,135                                   | 2,535    | 00.5                                    |
|   |                         |           | •      | 207          | 414       | 311     | 1.648     | ,         | 305      | 610       | 638     | 632       | •       | 512           | 1,024                                   | 1,549    | 2,27                                    |
|   |                         |           | 3,243  | 5,680        | 6.684     | 6,684   | 6,684     | 8,030     | 8,298    | 8,566     | 8,936   | 9,315     | 11,273  | 13,978        | 15,250                                  | 15,620   | 16,003                                  |
|   | 8. Horong               |           | •      | 984          | 1,928     | 2,833   | 4,076     |           | 608      | 1,216     | 1,290   | 1,315     |         | 1,572         | 3,144                                   | 4, 123   | 5,33                                    |
|   | 110. Pililla            |           | •      | 89           | 1,786     | 3,462   | 5,108     | ,         | 651      | 1,302     | 1,356   | 1,324     |         | 1,544         | 3,038                                   | 4,818    | 6,432                                   |
|   |                         |           | 4,706  | 6,648        | 8,130     | 8,130   | 6,130     | 3,641     | 5,743    | 7,844     | 7,633   | 7,193     | 8,347   | 12,391        | 15,974                                  | 15,963   | 15,32                                   |
|   |                         |           | ,      | 3,019        | 6,039     | 9,425   | 13,368    |           | 1,280    | 2,559     | 2,662   | 2,574     | ,       | 4,289         | 862,8                                   | 12,087   | 16,542                                  |
|   | 13. Teytay              |           | 200    | 809          | 1 210     | 659     | 2,634     | 707       | 370      | 739       | 130     | 686       |         | 979           | 1.858                                   | 2.582    | 3 12(                                   |
|   |                         | . :<br>   |        |              |           |         |           |           |          |           |         |           |         | ************* | *************************************** |          |   |
|   | TOTAL                   |           | 89,739 | 151,606      | 201,855   | 220,765 | 247,128   | 840 702   | 880,109  | 519,517   | 696,850 | 892,062   | 930,441 | 1,031,515     | 1,121,372 3                             | 1317,615 | ,139,190                                |
| • |                         |           |        | 111111111111 |           | 1       | ********* | ********* |          |           |         |           |         | 3154446366    |   |          | ******                                  |

TABLE 6.2.26 SUMMARY OF GROUNDWATER DISCHARGE (SCENARIO 3)

| į        |                         |        |         |   |         |         |          |           |         |   |          |         |         | 2                                     |          |         |
|----------|-------------------------|--------|---------|---|---------|---------|----------|-----------|---------|---|----------|---------|---------|---------------------------------------|----------|---------|
| 8        | CITY/MUNICIPALITY; 1980 | 1990   | 1995    | 2000                                    | 2005    | 2010    | 7930     | 1995      | 2000    | 2005                                    | 2010     | 1990    | 1995    | 2000                                  | 2005     | 0.00    |
|          | I. NCR                  | 32,961 | 44,898  | 44,898                                  | 44,898  | 44.898  | 640 937  | 868 880   |         | 110000                                  |          |         |         |                                       |          | 7       |
| ŀ.       | 4                       |        |         | 1                                       |         |         |          | 200       |         | 688 900                                 | 006, 980 | 673,898 | 711,478 | 737,121                               | 651,743  | 643,79  |
| <u>.</u> | Power Colors            | •      | 9       | 6                                       | o       | •       | 12,665   | 20,265    | 27,866  | 27,472                                  | 27,359   | 12.665  | 20.265  | 27 SEE                                | 27 623   | 30.00   |
|          | Outrant City            | 4161   | 2 082   | 5,082                                   | 5,082   | 5,082   | 17,997   | 18,807    | 19,618  | 16,708                                  | 16,736   | 22.458  | 23.889  | 24 700                                | 21 700   | 2 6     |
|          | quezon city             | 14,186 | 18, 326 | 18,326                                  | 18,326  | 18,326  | 91,324   | 86,397    | 81,471  | 61.874                                  | 82,662   | 105.510 | 104.723 | 90 702                                | 200, 100 | 10.13   |
|          | Ver Plan City           |        | e ;     | 0                                       | Ġ;      | ۰.      | 27,476   | 32,969    | 38,462  | 33,970                                  | 27.960   | 27.476  | 32.969  | 38 483                                | 20.00    | 20,00   |
|          | ran rings               | 1,527  | 1, 734  | 1,734                                   | 1,734   | 1,734   | 81,778   | 70,395    | 59,013  | 48,901                                  | 53.998   | 30.5    | 20,100  | 107.00                                | 0.5.00   | 7       |
|          | dekatı                  | 3,772  | 7,360   | 7,360                                   | 7,360   | 7,360   | 25,179   | 23,012    | 20.844  | 20 920                                  | 21 638   | 00000   | 20, 200 | 747                                   | 56,95    | 55,73   |
| :        | Kalabon                 | 554    | 1,244   | 1,244                                   | 1,244   | 1,244   | 18,473   | 22.889    | 27 304  | 20,000                                  | 000      | 162,03  | 375,05  | \$07,87                               | 28,280   | 28,39   |
| œ.       | Handa Luyong            |        | •       | ٥                                       | 0       | 0       | 8.976    | 9.688     | 402 0   | 2 0                                     | 6,6,77   | 120'67  | 24,133  | 28,548                                | 26,595   | 24,22   |
| o.       | Marikina                | 0      | 0       | 0                                       | 0       | c       | 13,573   | 200.4     | 200     | # P P P P P P P P P P P P P P P P P P P | 10.456   | 8,976   | 9,685   | 10,395                                | 10,394   | 10,45   |
| 30.      | Muntinlups              | 5,777  | 7,019   | 7,019                                   | 7.019   | 7.019   | 91910    | 200       | 200     | 14,463                                  | 14,763   | 13,573  | 14,833  | 16,094                                | 14,463   | 14,76   |
| 11.      | Navotas                 | 106    | 313     | 313                                     | 313     | 313     | 900      | 90,00     | 20.0    | 54,358                                  | 66,423   | 97 395  | 92,022  | 85,406                                | 71,377   | 73,44   |
| 15       |                         | 1,147  | 1,768   | 1.768                                   | 1.769   | 7 769   | 1000     | 904.4     | 10      | 4,737                                   | 4,787    | 4,157   | 4,719   | 5,074                                 | 5,050    | 5,100   |
| 13.      |                         | 49     | 256     | 256                                     | 25.5    | 9 1     | 76 000   | 877 CO    | 26,100  | 46,212                                  | 46,797   | 71,305  | 84,897  | 57,868                                | 47,980   | 48,56   |
| 4        |                         |        |         | •                                       |         |         | 000.0    | 582.00    | 101,430 | 86,967                                  | 87,412   | 76,007  | 88,950  | 101,686                               | 87,223   | 87,66   |
| 13.      | San Juan                | ٥      |         |   | -       |         | 007      | 60.7      | 5,813   | 4,613                                   | 3,525    | 1,756   | 3,785   | 5,813                                 | 4,613    | 3,52    |
| 176.     | raguig                  | 640    | 847     | 847                                     | 647     | · •     | 0 10     | 9 T ( T 6 | 1, 388  | 1,388                                   | 1,880    | 408     | 1,148   | 1,888                                 | 1,588    | 1,880   |
| 17       | 17. Valenzuela          | 742    | 948     | 949                                     |         | 200     | 96,367   | 73,952    | 81,537  | 67,700                                  | 62,160   | 67,007  | 74,799  | 82,384                                | 68,547   | 63,00   |
| 1        | ī                       |        |         |   | D       | מל ה    | 33,180   | 47,210    | 61,241  | 50,318                                  | 47,970   | 33 922  | 48,159  | 62,190                                | 51,267   | 48,913  |
|          | II. CAVITE              | 26,970 | 52,468  | 52,468                                  | 52,468  | 52,468  | 57,927   | 53,479    | 49,032  | 39,537                                  | 33,796   | 84,897  | 105.948 | 101.500                               | 92.005   | 96. 26. |
| -        | Bacoor                  | 8.314  | 7 556   | 4 556                                   |         |         |          | 3         |         |   | 1        |         |         |                                       |          |         |
| N        | Cavite City             | 714    | 369 1   | 11 076                                  | 900'    | 7,556   | 32,210   | 20,961    | 9,713   | 8,749                                   | 10,212   | 38,524  | 28,517  | 17,269                                | 16,305   | 17,768  |
| n        | Inuus                   | 1 854  | 376 77  | 076'17                                  | 11,926  | 17,926  | 4,328    | 6,988     | 9,649   | 5,847                                   | 4,405    | 11,042  | 18,914  | 21,575                                | 17, 773  | 16.332  |
|          | Kawit                   | 4 320  | 10 020  | C 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 11,245  | 11,245  | 4,443    | 7,897     | 11,351  | 9,767                                   | 5,956    | 6,097   | 19,142  | 22,596                                | 21,012   | 17.201  |
|          | Novelets.               | 1,000  | 010     | 10,929                                  | 10,929  | 10,929  | 2,830    | 2,342     | 1,855   | 603                                     | 0        | 7,159   | 13,272  | 12,784                                | 11,532   | 10.930  |
|          | Roserto                 | 200    | 20.0    | 7,070                                   | 7,070   | 7,070   | 5,659    | 3,680     | 1,702   | 1,284                                   | 316      | 12,729  | 10,750  | 8,772                                 | 8.354    | 7.88    |
| ř        |                         | 00     | 3,142   | 3,742                                   | 3,742   | 3,742   | 8,457    | 11,610    | 14,763  | 13,287                                  | 12,406   | 9,346   | 15,352  | 18,505                                | 17,028   | 16.147  |
| H        | III. RIZAL              | 29,808 | 63.649  | 86.088                                  | 105.000 | 101 011 |          |           |         |   |          |         |         |                                       |          |         |
| 1        |                         |        |         |   | 200     | 1,5,151 | 250 111  | 100,050   | 178,262 | 193,711                                 | 202,608  | 171,646 | 223,699 | 264,360                               | 238,718  | 333,979 |
|          | Angono                  | ì      | 0       | 0                                       | ٥       | ٥       |          | 1.210     | 2.419   | 7 507                                   | , , ,    |         |         |                                       |          |         |
|          | Antipolo                | 11,621 | 19,959  | 28,381                                  | 30,760  | 35,780  | 44,155   | 44.719    | 45.783  | 41.136                                  | 07017    |         | 1,210   | 2.419                                 | 2,592    | 2,516   |
| 1        | Bares                   |        | 188     | 291                                     | 642     | 1,165   |          | 329       | 858     | 100                                     | 200,00   | 95) (66 | 64,718  | 73, 554                               | 81,934   | 91,160  |
|          | Binangonan              |        | 10,414  | 16,775                                  | 25,501  | 36,874  |          | 2.810     | 5.620   | 67.5                                    | 1010     |         | 70      | e e e e e e e e e e e e e e e e e e e | 1,350    | 838     |
|          | Cainta                  | 3,785  | 5,786   | 5,786                                   | 5 786   | 5,786   | 43.619   | 57.891    | 67 163  | 4 6 9 6 4                               | 20,000   |         | 13,224  | 22,395                                | 31,172   | 42,124  |
|          | Cardona                 |        | 728     | 176                                     | 1,347   | 1.825   |          | 582       | 3016    | 301                                     | 77.0     | 604.20  | 63,677  | 72,948                                | 79,413   | 83,913  |
|          | Jala-Jala               | •      | 109     | 414                                     | 911     | 1.646   | •        | 305       | 614     | 7,100                                   | . 1,1,10 | ì       | 1,319   | 2,135                                 | 2,535    | 3,003   |
| ∞        | Hontalban ;             | 3,243  | 5,680   | 6,684                                   | 6.684   | 6.684   | 8 030    | 200       | 999     | 9 6                                     | 250      | 1       | 414     | 1,024                                 | 1,549    | 2,278   |
| or<br>or | Horong                  |        | 1,419   | 1,928                                   | 2.833   | 4.076   | : .<br>: | 9 6       | 910     | 2000                                    | 9,318    | 11,273  | 13,578  | 15,250                                | 15,620   | 16,002  |
| 10.      | Pilila                  | ,      | 1,045   | 1,786                                   | 3.462   | 5.108   |          | 2         | 1770    | 0.00                                    | 1,318    | •       | 2,027   | 3,144                                 | 4,123    | 5,394   |
|          | San Mateo               | 4,706  | 6,648   | 8,130                                   | 8.130   | 8,130   | 3.64     | 5 743     | 1001    | 000                                     | 1,324    |         | 1,636   | 3,088                                 | 4,918    | 6,432   |
|          | Tanay                   | į      | 3,225   | 6,039                                   | 9.425   | 13.968  | ,        | 280       |         | 2001                                    | PAT C    | 8,347   | 12,390  | 15,974                                | 15,963   | 15,323  |
| ឮ        | Taytay                  | 6,453  | 7,695   | 7,695                                   | 7,695   | 7,695   | 37,393   | 35.256    | 33 120  | 700'7                                   | 4,574    |         | 4,504   | 8,598                                 | 12,087   | 16,542  |
| ¥.       | Teresa :                |        | 713     | 1,219                                   | 1,632   | 2,634   |          | 370       | 739     | 730                                     | 686      | 468,54  | 128,35  | 40,815                                | 42,399   | 44 075  |
|          |                         |        |         |   |         |         |          |           | •       | 3                                       | 2        |         | 790     | 1. 358                                | 2,562    | 3 320   |
|          |                         |        |         |   |         | •       |          |           |         |   |          |         |         |                                       |          |         |

TABLE 6.2.27 SUMMARY OF GROUNDWATER DISCHARGE (SCENARIO 4)

| NAME   32,861   44,828   44,838   45,848   45,   | 2 2010<br>0 4,898<br>1,184<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134<br>1,134 |                 | 1996<br>96,079 751,221<br>19,461 20,965<br>30,484 20,965<br>35,836 44,197<br>75,853 22,980<br>9,737 10,497<br>14,899 16,224<br>8,454 91,289<br>8,596 103,233<br>1,157 65,295<br>67,727 65,295<br>67,727 65,295<br>67,727 65,295<br>67,727 65,295<br>67,727 65,295<br>67,604 64,028 | 757<br>757<br>757<br>757<br>757<br>757<br>757<br>757  | 767,418<br>27,812<br>16,996<br>21,063<br>21,584<br>10,586<br>10,586<br>36,464<br>4,911<br>122,951<br>1,898<br>9,387<br>89,387<br>89,387   | 1990<br>12,665<br>12,458<br>105,510<br>27,476<br>83,305<br>28,305<br>28,305<br>28,976<br>13,573<br>47,395<br>47,395<br>47,395<br>76,007<br>76,007<br>76,007<br>33,922  | 1995<br>740,977<br>20,481<br>24,563<br>35,836<br>77,587<br>31,391<br>32,313<br>14,689<br>9,737<br>14,689<br>96,435<br>69,485<br>89,852<br>4,328<br>11,57  | 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12,665<br>22,458<br>105,510<br>27,476<br>53,935<br>13,573<br>13,573<br>41,395<br>11,305<br>11,756<br>11,305<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>11,756<br>1 | 20,491<br>24,563<br>105,082<br>31,583<br>71,583<br>71,583<br>31,981<br>14,899<br>86,495<br>89,685<br>4,325<br>1,157<br>89,685<br>89,685<br>89,885<br>89,885<br>89,885<br>89,885   | 28,317<br>26,047<br>100,515<br>44,197<br>71,661<br>30,624<br>10,497<br>16,224<br>94,306<br>5,706<br>67,063<br>103,489<br>6,895<br>103,489  | 23, 254<br>100, 969<br>3, 452<br>100, 969<br>3, 462<br>28, 401<br>10, 500<br>10, 50 | 22, 22, 22, 23, 24, 24, 24, 24, 24, 24, 24, 24, 24, 24   |
| Paray City   |   |                 |  | 27, 928<br>82, 643<br>82, 643<br>87, 643<br>21, 643<br>21, 643<br>86, 648<br>86, 648<br>86, 648<br>86, 648<br>87, 648<br>87, 648<br>88, 812<br>115, 848<br>88, 842<br>88, 842<br>88, 842<br>88, 843<br>88, 844<br>88, 8   | 27, 812<br>16, 996<br>17, 894<br>10, 684<br>10, 586<br>21, 10, 586<br>10, 586<br>4, 911<br>122, 951<br>1, 898<br>89, 387<br>89, 387<br>89, 387  | 22,458<br>22,458<br>105,510<br>27,476<br>83,305<br>28,305<br>28,907<br>8,976<br>13,573<br>47,395<br>47,395<br>47,395<br>76,007<br>76,007<br>76,007<br>76,007<br>33,922   | 20,481<br>24,563<br>105,082<br>35,836<br>77,587<br>31,391<br>25,170<br>9,737<br>14,899<br>96,435<br>69,485<br>89,852<br>4,328<br>1157   | 28,317<br>26,047<br>100,515<br>44,197<br>71,661<br>30,624<br>30,624<br>94,306<br>57,306<br>67,003<br>103,469<br>103,469  | 23,754<br>23,754<br>100,969<br>37,493<br>66,362<br>28,401<br>27,789<br>10,500<br>10,500<br>10,500<br>116,160<br>5,168<br>116,160<br>1,906<br>1,906<br>1,906   | 12. 22. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10   |
| Pamay City 4,461 5,082 5 | N. 0 0 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.   |                 |  | 18, 17, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20  | 16,996<br>31,884<br>70,063<br>71,606<br>21,160<br>22,258<br>24,464<br>4,811<br>122,951<br>5,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,15<br>8,15<br>8,15<br>8,15<br>8,15<br>8,15<br>8,15<br>8,1 | 22,458<br>105,510<br>27,476<br>83,305<br>28,305<br>28,305<br>18,573<br>4,13,573<br>4,1305<br>76,007<br>1,756<br>67,007<br>33,922   | 24,563,105,082,35,082,105,082,170,15,817,170,170,170,170,170,170,170,170,170,1  | 26,047<br>100,515<br>44,197<br>71,661<br>30,624<br>30,624<br>16,224<br>94,306<br>67,063<br>67,063<br>67,063<br>67,063<br>67,063<br>67,063  | 23, 254<br>100, 969<br>37, 493<br>66, 392<br>28, 401<br>27, 789<br>10, 500<br>10, 500<br>10, 580<br>10, 160<br>5, 160<br>5, 841<br>1, 80<br>67, 687   | 22, 22, 23, 24, 24, 24, 24, 24, 24, 24, 24, 24, 24   |
| Quezon City         14,186         19,326         19,326           Calcokan City         0         0         0         0           Calcokan City         0         0         0         0           Habati         3,727         1,734         1,244         1,245           Handaluyong         0         0         0         0           Bancare         1,147         1,766         1,768         256           Parigh         49         256         256         256           San Juan         0         0         0         0           Taguig         640         847         847         847           Walenzuela         742         949         949           Walenzuela         7,14         11,668         10,374           Marcor         6,314         7,556         7,556           Cavite City         6,714         <  |   |                 |  | 32, 643<br>37, 493<br>37, 493<br>21, 649<br>21, 649<br>21, 646<br>10, 565<br>115, 924<br>5, 841<br>5, 841<br>5, 841<br>5, 841<br>5, 841<br>6, 446<br>6, 646<br>6, 646   | 93,471<br>71,684<br>71,684<br>71,160<br>24,258<br>72,256<br>72,256<br>94,464<br>94,464<br>94,464<br>95,791<br>122,951<br>1,29,951<br>1,29,951<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,145<br>8,155<br>8,155<br>8,155<br>8,155         | 27,476<br>83,305<br>28,305<br>28,905<br>13,627<br>47,395<br>47,395<br>71,305<br>76,007<br>71,305<br>76,007<br>33,922   | 105,082<br>35,836<br>77,587<br>31,381<br>25,170<br>14,699<br>96,473<br>5,076<br>69,485<br>89,852<br>4,328<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1,137<br>1, | 100,515<br>44,197<br>71,661<br>30,263<br>30,624<br>10,497<br>16,224<br>94,306<br>57,308<br>67,003<br>103,469<br>6,695<br>103,469   | 100,968 37,493 36,492 28,401 27,789 10,500 10,500 116,160 5,801 1,906 1,906 90,581  | 23, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25   |
| Calcokan city; 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   |   |                 |  | 37, 483<br>21, 628<br>21, 628<br>21, 658<br>26, 633<br>66, 446<br>7, 865<br>8, 842<br>1, 896<br>8, 842<br>8, 842<br>8, 842<br>8, 842<br>8, 842<br>8, 842<br>8, 843<br>8, 844<br>8,  | 31,884<br>70,063<br>21,160<br>24,258<br>10,586<br>30,266<br>94,464<br>4,911<br>129,951<br>1,29,951<br>1,29,394<br>89,387<br>69,394  | 27,476<br>83,305<br>28,305<br>28,305<br>13,573<br>97,395<br>41,305<br>76,007<br>76,007<br>1,756<br>67,007<br>33,922  | 35,836<br>31,391<br>35,170<br>37,170<br>96,473<br>5,076<br>69,485<br>89,682<br>4,383<br>1,157<br>80,281   | 44,197 71,661 70,624 30,624 10,497 16,224 16,224 16,206 1736 103,489 1306 1306   | 37,493<br>66,362<br>28,401<br>27,789<br>10,500<br>10,233<br>5,168<br>60,580<br>116,180<br>1,906<br>1,906<br>90,881  | 31.88<br>14.52<br>12.52<br>12.52<br>12.52<br>13.52<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53<br>13.53  |
| Lam Finas  |   |                 |  | 54, 528<br>21, 041<br>20, 041<br>10, 500<br>10, 500<br>10, 500<br>10, 500<br>11, 50, 51<br>1, 50, 61<br>1, 50, 61   | 70,063<br>21,160<br>21,160<br>10,586<br>10,586<br>94,464<br>4,911<br>61,791<br>129,951<br>5,145<br>1,898<br>93,367<br>89,387  | 28,330<br>19,027<br>13,537<br>13,539<br>4,157<br>71,305<br>76,007<br>1,756   | 77,587<br>25,170<br>9,737<br>14,899<br>96,473<br>5,076<br>69,485<br>89,852<br>4,325<br>1,157  | 11,861<br>30,243<br>30,624<br>10,497<br>16,224<br>94,306<br>5,788<br>67,003<br>103,489<br>1,306<br>1,306   | 56,362<br>28,401<br>27,789<br>10,500<br>18,233<br>93,467<br>5,168<br>60,580<br>116,180<br>1,906<br>1,906<br>1,906<br>1,607<br>1,906   | 20,550<br>20,550<br>20,550<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20,250<br>20   |
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| 24, 258<br>10, 266<br>20, 266<br>94, 464<br>4, 811<br>(129, 951<br>5, 145<br>1,   | 28,951<br>19,027<br>8,5976<br>13,5395<br>4,157<br>71,305<br>76,007<br>1,756<br>67,007<br>33,922  | 31,391<br>25,170<br>9,737<br>14,899<br>96,473<br>5,076<br>69,495<br>89,852<br>4,323<br>1,157  | 30,243<br>30,624<br>10,497<br>16,224<br>94,308<br>5,788<br>67,063<br>103,489<br>1,308<br>1,308   | 28,401<br>27,789<br>10,500<br>18,233<br>93,467<br>5,168<br>60,580<br>116,180<br>1,906<br>1,906<br>90,581  | 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| Marigina   |   |                 |  | 10,500<br>18,233<br>18,233<br>4,855<br>58,812<br>115,924<br>5,841<br>5,841<br>6,534<br>66,738   | 10,586<br>20,266<br>30,266<br>4,811<br>61,791<br>129,951<br>5,145<br>1,898<br>1,898<br>1,898<br>45,623  | 8,976<br>13,573<br>97,395<br>4,157<br>71,305<br>76,007<br>1,56   | 9,737<br>96,473<br>96,473<br>5,076<br>69,495<br>89,852<br>4,323<br>1,157  | 10,497<br>16,224<br>94,308<br>5,738<br>67,063<br>103,489<br>6,895<br>1,308   | 10,500<br>16,233<br>93,467<br>5,168<br>60,530<br>116,160<br>5,841<br>1,906<br>90,581  | 20,26<br>20,26<br>101,48<br>130,20<br>130,20<br>14,1<br>14,1<br>14,1<br>14,1<br>14,1<br>14,1<br>14,1<br>14,  |
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| Hancian 5,777 7,013 7,019  Navozas 1,106 1,768 1,768  Paulg 0 0 0  San Juan 0 0 0 0  Novelet 0 0,714 11,669 18,776  Exatt 1,669 18,776  Exatt 1,677  Exatt 1,6 |   |                 |  | 86, 4, 86, 81, 11, 15, 92, 4, 86, 81, 12, 92, 4, 86, 11, 86, 1  | 94,464<br>4,811<br>129,951<br>5,145<br>1,888<br>93,367<br>69,394  | 97,395<br>4,157<br>71,305<br>76,007<br>1,756<br>67,007<br>33,922   | 96,473<br>5,076<br>69,495<br>89,852<br>4,323<br>1,157   | 94,306<br>5,706<br>67,063<br>103,489<br>6,895<br>1,906   | 93,467<br>5,168<br>60,580<br>116,180<br>5,841<br>1,906<br>90,581  | 101<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>101<br>101   |
| Paranaque   1,147 1,766 1,768   1,76   |   |                 |  | 4,855<br>1115,924<br>1,906<br>1,906<br>66,736<br>49,635   | 6,781<br>(129,951<br>(1,898<br>(9),387<br>(45,623   | 4,157<br>71,305<br>76,007<br>1,756<br>67,007<br>33,922   | 5,076<br>69,495<br>89,852<br>4,325<br>1,157<br>80,291   | 5,788<br>67,063<br>103,489<br>6,895<br>1,306   | 5,168<br>60,580<br>116,180<br>5,841<br>1,906<br>90,581  | 5, 22<br>63, 52<br>63, 26<br>6, 34<br>6, 34<br>1, 54<br>1, 54<br>1, 54<br>1, 54<br>1, 54   |
| Paranaque 1,147 1,766 1,768 256 256 256 257 250 255 256 255 257 255 255 255 255 255 255 255 255  | mn 00 50 5  |                 |  | 58,812<br>115,924<br>5,841<br>1,906<br>89,534<br>66,738   | 5,145<br>1,898<br>1,898<br>93,367<br>69,394   | 71,305<br>76,007<br>1,756<br>67,007<br>33,922  | 69,485<br>89,852<br>4,325<br>1,157<br>80,291  | 67,063<br>103,489<br>6,895<br>1,906  | 60,580<br>116,180<br>5,841<br>1,906<br>90,381   | 23.081<br>24.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24.45<br>25.24<br>25.24<br>25.24.45<br>25.24<br>25.24<br>25.24<br>25.24<br>25.24<br>25.24<br>25.24<br>25.24<br>25.24<br>25.24<br>25.24  |
| Paulg  |   |                 |  | 115,924<br>5,841<br>1,906<br>89,534<br>66,736   | 5,145<br>1,898<br>93,367<br>69,394<br>45,623  | 1,756<br>1,756<br>408<br>67,007<br>33,922  | 89,852<br>4,325<br>1,157<br>80,291  | 103,489 6,895  | 116,150<br>5,841<br>1,906<br>90,381<br>67,687   | 130,22<br>5,34<br>14,55<br>14,54<br>14,54  |
| San Juan   |   | 1               |  | 5,841<br>1,906<br>89,534<br>66,738<br>49,635  | 5,145<br>1,838<br>93,367<br>69,394<br>45,623  | 1,756<br>408<br>67,007<br>33,922   | 1,157   | 1,306  | 5,841<br>1,906<br>90,381<br>67,687  | 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2   |
| Nature   |   | , ,             |  | 1,306   | 1,898<br>93,367<br>69,394<br>45,623   | 408<br>67,007<br>33,922  | 1,157   | 1,306  | 1,906<br>90,381<br>67,687   | 70,44  |
| Taguig 640 847 847 848 Valenzuela 742 949 949 949 949 949 949 949 949 949 9  |   | 1               |  | 66,738  | 93,367<br>69,334<br>45,623  | 33,922   | 80.291  | 368  | 90,381  | 10,34  |
| 742 949 949 949 742 26,970 45,921 64,875 6,714 11,669 18,770 7,070 |   | ļ               |  | 66,738  | 69,394  | 33,922   |   | 177779   | 67,687  | 10,34  |
| 28,970 45,921 64,875 67,875 67,875 67,14 11,969 18,276 7,556 7,556 7,070 |   |                 |  | 49,635  | 45,623  |  | 49,553  | 64,977   |   | 144,5  |
| City 6,314 7,556 7,556 City 1,654 9,014 16,374 4,328 7,163 10,037 CAL 29,808 54,189 84,734 1 CAL 29,808 16,775 2 CAL 29,808 16,775 2 CAL 20,808 |   | ļ               |  | ***************************************   |   | 84,897   | 104,588   | 124,283  | 129,958   |  |
| 11,054 9,014 16,374 16, |   | ~               | 3,851 15,693   | 10,190  | 10,806  | 38,524   | 31,507  | 23,249   | 27,746  | 18,3   |
| 1,654 9,014 16,374 4,328 7,163 10,037 7,070 7,070 7,070 888 3,229 5,569 11,521 16,767 26,858 11,521 16,767 26,858 11,521 16,767 26,858 11,521 16,767 26,858 11,521 16,767 26,858 11,521 16,767 5,788 1,88 4,786 5,788 1,786 5,786 1,786 5,786 1,786 5,786 1,787 1,787 4,786 5,786 1,787 1,787 1,787 1,786 5,786 1,787 1,787 1,787 1,786 5,786 1,787 1, |   | •               | _  | 9,081   | 7,983   | 11,042   | 19,422  | 29.048   | 34,357  | 33,50  |
| 7,070 7,183 10,037 7,070 7,070 7,070 888 3,228 5,569 11,29,808 54,189 84,734 1 11,521 16,767 26,858 145 29,888 16,775 145 2,785 4,786 5,786 1414 20,785 4,786 5,786 1414 20,785 4,786 5,786 141 20,785 4,786 5,786 1414 20,785 4,786 5,786 1414 20,785 4,786 5,786 1414 20,785 4,786 5,786   | :   | :               | _  | 11,355  | 8 804   | 6,097  | 17,577  | 29,057   | 33,537  | 39,5   |
| 7,070 7,070 7,070 7,070 7,070 888 3,229 5,569 7, |   | 2,830 2,        | 689 2,548  | 1,199   | 301   | 7, 159   | 9,872   | 12,585   | 11,823  | 10,95  |
| 29,809 54,199 84,734 1,152 1,152 1,159 16,775 1,152 1,152 16,775 1,152 16,775 1,152 16,775 1,152 16,775 1,152 16,775 1,152 16,775 1,152 16,775 1,152 1 | _   |                 | _  | 1,579   | 1,042   | 12,729   | 11,137  | 9,545  | 8,643   | 8,13   |
| 11, 521, 608 54,199 84,734 1, 11, 521 18, 167 26, 959 145 145 25, 185 16,775 1, 185, 185 16,775 1, 185 18, 185 18, 185 18, 185 185 185 185 185 185 185 185 185 185   |   | -               | _  | 16,231  | 16,687  | 9.346  | 15,073  | 20,800   | 24,118  | 28,012   |
| 11,621 16,767 26,958 145 291 145 291 147 2 16,775 148 16,775 178 178 178 178 178 178 178 178 178 178   | 549 128,964   | 141,838 185,    | 16,915 189,991   | 199,009   | 209,323   | 171,646  | 220,113   | 274,725  | 302,558   | 335,286  |
| nan 11,621 18,767 26,958 31  |   |                 | 210 2,419  | 2,582   | 2,518   |  | 1,210   | 2,419  | 2,592   | 2,5  |
| 145 291 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |   |                 |  | 52,402  | 57,386  | 55,776   | 62,031  | 73,230   | 81,545  | 30,5   |
| 8,385 16,775 3<br>3,785 6,786 5,785 7<br>485 971 1 200 6 484   | :   |                 |  | 708   | 731   | •  | 474   | 948  | 1,350   | 1,85   |
| 3,785 6,786 5,786 3,786 403 971  |   |                 |  | 5,671   | \$,250  | •  | 11,188  | 22,395   | 31,172  | 42,13  |
| 485 971<br>1 207 414<br>1 200 6 688  |   | _               |  | 15,421  | 80 308  | 52,404   | 65,822  | 79,240   | 81,207  | 86,09  |
| 207 414  |   |                 |  | 1,188   | 1,178   |  | 1,057   | 2,135  | 2,535   | 3,0  |
| 287 3 . 907 7 LVC 6 .1   |   |                 |  | 638   | 632   | ,  | 512   | 1.024  | 1,549   | 2 2  |
| ***  | 585 6,585   | 8,030 8,        | 8,437 8,845  | 9,323   | 9,620   | 21,273   | 12,936  | 15,430   | 15,908  | 16,20  |
| 964 1,928  |   |                 |  | 1,280   | 1,318   | ŧ.   | 1,572   | 3,144  | 6,123   | <b>6</b>   |
| 893 I. 186   |   |                 |  | 1,356   | 1,324   |  | 1,544   | 4,058  | 4,818   | 4,0  |
| 8,388  |   |                 |  | 4.438   | 1,966   | 8,347  | 12,362  | 16,737   | 18,875  | 16,33  |
| 3,019 6,039  |   | . '             |  | 2,662   | 2,574   |  | 4,285   | 8,598  | 12,087  | 16.5   |
| 7,695  |   |                 |  | 36,538  | 37,834  | 43,848   | 44,088  | 44,329   | 44,234  | 45,52  |
| 1,219  |   |                 |  | 130   | 380   | 1  | 97e   | 1,958  | 2,562   | e.   |
| CONTRACTOR TO THE PROPERTY OF  |   | 240 700 600 881 | 861 1 000 820  | 2 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8   | 020 3K3   | 177 U60  | 1 0.85 878 9  | 104 128  | 1 214 664 4   | 204  |

TABLE 6.2.28 NUMBER OF CONNECTIONS AND WATER CONSUMPTION IN THE ANTIPOLO BASIN

| AREA                   | NO   | . OF | CONNE | CTIONS | 3     | WA   | TER C | ONSUM | PTION | $(M^3/D)$ |
|------------------------|------|------|-------|--------|-------|------|-------|-------|-------|-----------|
|                        | DOM. | P.F. | COM.  | IND.   | TOTAL | DOM. | P.F.  | COM.  | IND.  | TOTAL     |
| ANTIPOLO<br>MUNICIPALI |      | 1    | 223   | 44     | 4713  | 3606 | 4     | 533   | 1565  | 5707      |
| ANTIPOLO<br>BASIN      | 3535 | 3    | 172   | 28     | 3738  | 2962 | 10    | 270   | 46    | 3288      |
| SHARE (%)              | 79.5 | 300  | 77.1  | 63.6   | 79.3  | 82.1 | 250   | 50.7  | 2.9   | 57.6      |

Note: Data on P.F. may be processed improperly. But its influence is negligible.

Source: Computer Service Center, MWSS

TABLE 6.2.29 GROUNDWATER DISCHARGE IN THE ANTIPOLO BASIN (1990)

(UNIT: MCM)

| OWNER  | NO. OF    | DISCHARGE _ |        | USE    |        |
|--------|-----------|-------------|--------|--------|--------|
|        | WELLS     |             | DOM.   | сом.   | IND.   |
| MWSS   | 10        | 3.5803      | 1.1884 | 0.1119 | 0.0190 |
| PRIVAT | E 26      | 3.5210      | 2.2591 | 0.2209 | 1.0410 |
| TOTAL  | 36        | 7.1013      | 3.4475 | 0.3328 | 1.0600 |
| DAILY  | $(M^3/D)$ | 19,456      | 9,445  | 912    | 2,904  |
| MWSS Z | 27.7      | 50.4        | 34.5   | 33.6   | 1.8    |
|        |           |             |        |        | 4.0    |

Source: Study Team

TABLE 6.2.30 PROJECTED MMSS SERVED POPULATION

(POBLACION SYSTEM)

13,718 39,515 34,232 2,532 28,237 25,853 6,983 6,323 182,603 32,192 12,830 71,050 ; 115,857 ; 153,465 ; 195,433 2010 POPULATION WITHIN SERVICE AREA 8,522 32,483 2,053 28,220 86,460 | 109,516 | 145,596 6,134 7,869 21,323 5,199 23,282 24,514 2005 4,313 1,590 5,259 6,341 17,474 17,740 3,399 1,082 25,815 21,172 18,013 2000 4,591 13,004 18,509 1,247 12,527 11,485 9,688 123,347 ; 154,329 ; 187,710 ; 222,517 ; 255,831 ; 46 ; 62 ; 69 ; 76 ; 11995 2000 2005 2010 46 65 236,012 | 47 | 63 | 71 | 77 13,906 ; 70 ; 80 ; 14,436 | 17,182 | 19,819 | 37 | 44 | 27,214 ; 70 ; 90 06 36,034 ; 60 ; 29,723 ; 70 ; 40,240 40 13,978 ; 30,110 6,656. 318 2,532 19,597 205,335 23,693 12,268 26,202 17,044 2,161 25,869 35,020 5,777 3,470 1,155 289 38,215 31,355 POPULATION WITHIN STUDY AREA 2005 173,274 29,566 22,117 14,377 32,269 1,767 4,856 10,517 2, 705 958 256 26,465 21,843 20,014 12,473 11,763 1,385 17,896 24,220 3,955 9,181 2,225 1112,717 ; 141,856 833 234 26,441 21,673 16,408 18,115 10,630 7,970 14,241 13,061 1,750 700 9,338 21,033 1,034 17,227 3,121 14,402 19,260 1990 MUNICIPALITY 4. Beverly Hills 1. Bagong Nayon 12. Binangonan 2. Santa Cruz BARANGAY/ 3. De La Paz SUB-TOTAL · SUB-TOTAL 8. San Isidro San Roque San Jose TOTAL 9. San Luis 10. Taytay 11. Angono 6. Dalig

TABLE 6.2.31 DOMESTIC DEMAND PROJECTION IN THE ANTIPOLO BASIN

(POBLACION STSTEM)

| POPULATION WITHIN THE BASIN                                      | POP        | TATION WIT  | POPULATION WITHIN THE BASEN     | KIS.                                    | SUR      | SBRYED         | POPULATION |         | D.        | P.C. N.D (     | (1,400)    | ICNSS DO | DOKUSTIC WATER | SE DEKAND | (a/ca)  | OTERR D | DOM. DEK | DEKLED IN BA | BASIN   | TOTAL DO | DOM. DENATED | H BASIR | (K3/D) |
|--|------------|-------------|---------------------------------|---|----------|----------------|------------|---------|-----------|----------------|------------|----------|----------------|-----------|---------|---------|----------|--------------|---------|----------|--------------|---------|--------|
| MURICIPALITY 1595 2000 2005 2010                                 | 1995       | 2000        | 2005                            | ~ ~                                     | 1395     | 2000           | 2002       | 2010    | 982       | 2000           | 2005   201 | 1995     | 2002           | 2002      | 2010    | 1995    | 9902     | 2005         | 2010    | 1955     | 2000         | 5002    | 2310   |
| 1. Sakong Mayon  | 0          | 6           | 0                               | 0                                       | 0        | -              |            | 0       | ·         | 5              | 155 162    |          | 0              | 0         | 0       | 6       |          |              | 6       |          | 6            |         | 0      |
| 2. Santa Crue  | 3,043      | 6,161       | 7,305                           | 8,399                                   | -        | 1,313          | 8 522      |         | 8         |                | 155 1162   |          | 3              | 1321      | 2.22    | 969     | 275      |              | -       | 969      | 90           | 1.321   | 2 222  |
| 3. De Sa Pax   | 21,153     | 25,815      | 30,572                          | 35, 125                                 | 18,509   | 25, 815        | 32 483     | 39,515  |           | -              |            | 2,554    | 3,846          | 5 035     | 6, 101  | 365     | 0        | 0            | -       | 2,919    | 3,8,5        | 5.035   | 6 431  |
| 4. Severly Hills   | ۔<br>ز     | -           | -                               | ~~                                      | 1,347    | 1,590          | 130.2      |         | 55        | 555            |            | -,-      | 23             | 113       | =       | ~~      | 0        | 60           |         | 112      | 23.7         | 3       | 410    |
| 5. San Rague   | 19,505     | 23,819      | 28,220                          | 32,133                                  | 13,004   | 21,172 ;       | 28,220     |         | 23        | 138            |            |          | 3,155          | 4,374     | 5,546   | 397     | 系        | <del></del>  |         | 2,692    | 1,5.9        | 1,334   | 5,546  |
| f. Dalig   | 11,896     | 21,843      | 25,863                          | 29,123                                  | 12,527   | 17,414         | 23,282     |         | 2         | E 65           |            |          | 709.2          | 3,609     | 1,574   | 341     | 159      | 10‡          | 241     | 2,470    | 1,255        | 4,010   | 4,815  |
| 7. San Jose  | 16,408     | 1 20,014    | 23,693                          | 27,214                                  | 11,485   | 18,013         | 21,323     |         | 8         | 149            |            |          | 183.2          | 1,305     | 1,588   | 613     | 138      | 36.          | 220     | 2,264    | 2,332        | 3,672   | 4,409  |
| 3. San Isidro  | 13,378     | 23,653      | 28,015                          | 32,192                                  | 3,682    | 17,740         | 24,514     |         | 138       | 至              |            |          | 2,643          | 3,800     | 5,215   | 1,331   | 831      | 243          | •       | 2,674    | 3,524        | 1,342   | 5,215  |
| 9. San Luis  | 1,955      | 4,856       | 5,777                           | 999'9                                   | <u>-</u> | 3,369          | 5,199 1    | 6,323   | 2         | 22<br>22<br>23 |            |          | 985            | 908       | 1,024   | 975     | 211      | 8            | <u></u> | 25       | 124          | 895     | 1,018  |
| SUB-TOTAL  | 103,335    | 126,161     | 103,335 126,161 149,451 171,748 | 171,140                                 | 65,460   | 109,516        | 145,596    | 182,503 | <b>22</b> | 1 52           | 155 162    | 2,171    | 16,318         | 22,567    | 28, 582 | 5,261   | 2,11     | 1,401        | 213     | 14,432   | 19,035       | 21,958  | 30,097 |
| 10. Taytay   | -          | 0           | 9                               | 1                                       | 4.591    | 5.259          | 6.134      |         |           |                |            | 828      | 683            | 181       | 1.398   | 0       |          | 6            | -       | 328      | 283          | 1,18    | 1 198  |
| 11. Angono   | 2,225      | 2,705       | 3,470                           | 4,189                                   | 0        | 1 082          | 135        | 4,189   | Ξ         | 98             | 181 205    |          | E              | Ħ         | 859     | 314     | 260      | ī            |         | ##       | 3            | 823     | 859    |
| 12. Binengonen   | 833        | 228         | 1,155                           |   | 0        |                | •          |         |           |                |            |          | •              |           | 273     | 117     | 153      | 209          |         | 111      | 153          | 209     | 273    |
| 13. Teresa   | 234        | 256         | 289                             | ee<br>***                               | 0        |                | -          |         |           |                |            | ب<br>ا   | •              | نة<br>خ   | :S      | ន       | #        | 22           |         | #        |              | F.3     | 3      |
| SUB-TOTAL  | 3,292      | 3,292 3,919 |                                 | 4,914 5,841                             | 1,591    | 6,34 <u>1</u>  | 7,869      | 12,830  | 8         | 23<br>20       | 190 202    | 928      | 1,156          | 1,498     | 2,595   | 19      | 25       | 213          |         | 1,290    | 1,610        | 2,073   | 2,595  |
| TOTAL  | 106,527    | 130,080     | 154,365                         | 1 106,527   130,080   154,365   177,581 | 11,050   | 115,857        | 153,465    | 195,433 | E         | 15             | 157 165    | 5 9,598  | 17,474         | 24,065    | 12,177  | 5,725   | 3,13     | 1,976        | 515     | 15,723   | 20,645       | 25,041  | 32,692 |
| HOTE: Served population includes served population by the system | lation inc | ludes serv  | ed populati                     | ion by the                              |          | cutside of the | besin.     |         | İ         | 1              |            |          |                |           |         |         |          |              |         |          |              |         |        |

TABLE 6.2.32 WATER DEMAND PROJECTION IN THE ANTIPOLO BASIN

|                 |          |          | 1995                                    |       |        |        |       | 2000                                    |       |         |        |              | 2002     | -     |        |        |          | 2010     |        |            |
|-----------------|----------|----------|---|-------|--------|--------|-------|---|-------|---------|--------|--------------|----------|-------|--------|--------|----------|----------|--------|------------|
| MUNICIPALITY    | , 80d    | COR.     | DOR. THD. LOSS.                         | 1,005 | TOTAE  | , NOQ  | COK   | GET                                     | 108S. | TOTAL   | . Nod  | . X00        | IND.     | Loss. | TOTAL  | 30%    |          | IND.     | LOSS.  | 101.65     |
| Bagong Neyon    | 0        | 6        |   | 0     | 0      | 0      | 6     | 0                                       | 0     | 0       | 6      |              |          | 0     | 6      | 0      | 0        | 0        | 6      | -          |
| Santa Cruz      | 969      | 0        | 0                                       | 0     | 969    | 918    | 90    | **                                      | 284   | 1 222   | 1,321  | <br>         | Les      | 152   | 1,809  | 2,222  | 7.5      | E        | 50     | 3,032      |
| 3. De ba Pas    | 2.919    | 100      | 10                                      | 1.16  | 4,183  | 3,8,6  | 105   | £                                       | 1,175 | 5.443   | 5,035  | 117          | 553      | 1,321 | 6,491  | 6,405  | 123      | 97       | 1,780  | 8,330      |
| . Beverly Hills | 22       | e        | ,                                       | ŧ~    | 22.2   | 237    | w     |   | 105   | 9       | 318    | •,           |          | 103   | 136    | 410    | UC)      | ,4       |        | 580        |
| San Roque       | 2,592    | 221      | ======================================= | 101   | 3,027  | 3,540  | 233   | =                                       | 691   | 167     | 1,374  | 253          | 93       | 1,601 | 5,64   | 5,546  | 583      |          | 1,344  | 1,169      |
| Dalig           | 2,470    | Ç,       |   | 500   | 3,050  | 3,255  | -     | ==                                      | 220   | 3,557   | 1,010  | <del>-</del> | <u></u>  | 511   | 4,618  | 4,815  | 25       | **       | 835    | 5,756      |
| San Jose        | 2,264    | 22       | 2,818                                   |       | 5,855  | 2,887  |       | 8 8 7                                   | 1,187 | 1,080,1 | 3,672  |              | 2,819    | 1,131 | 7,655  | 4,409  | 750      | 2,819    | 1,428  | 8,741      |
| San Isidro      | 2.674    | 206      | 10                                      | 599   | 3.789  | 3,521  | 526   | ======================================= | 1,169 | 5,230   | 1,342  | 543          | ==       | 1,301 | 6,199  | 5,215  | 523      | 9        | 1, 179 | 7,568      |
| Sat Luis        | 976      | <b>-</b> | 6                                       | 0     | 979    | 724    | **    | ~7                                      | 224   | 963     | 895    | ==           | •~       | 276   | 1,193  | 1,078  | <b>2</b> | •••      | 349    | 1,451      |
| SUB-TOTAL       | 14,432   |          | 961 2,873                               | 3,134 | 21,402 | 19,035 | 1,050 | 2,878                                   | 5,354 | 28,316  | 23,968 | 1,132        | 2,888    | 8,101 | 34,089 | 30,097 | 1,200    | 2,898    | 8,414  | 42,507     |
| 10 Tautev       | 926      | 33       |   | 371   | 1.235  | 688    | 27    | -                                       | 135   | 1,449   | 1,184  | 83           |          | 405   | 1,621  | 1,398  | జ        |          | 1 627  | 505.€      |
| 11. Angono      | 317      | , 0      | 40                                      | -     | 359    | 423    | 10    | 9                                       | -     | 560     | 623    |              | 97       | -6    | 179    | 859    | 11       | 00       | 101    | 1,024      |
| 12. Hinangonan  | -        | <u>-</u> | 0                                       | 6     | 113    | 153    | 0     | 6                                       | 0     | 223     | 503    | -            | <br>-    |       | 503    | 23     | uo       | e        | 8      | 373        |
| 13. Teresa      | <b>=</b> | 0        | <b></b>                                 | c>    | ##<br> | =      | 6     | 0                                       | 0     | =       | 62     | <b>~</b>     | <u>-</u> | <br>G | 23     | 10     | +-4      | æ        | 22     | (J)<br>(A) |
| SUB-TOTAL       | 1,290    | 32       | 31                                      | 372   | 1,744  | 1,610  | 32    | 20                                      | 511   | 2,203   | 2,073  | 33           | 91       | 502   | 2,661  | 2,595  | 22       | #2<br>1G | 893    | 3,393      |
| TOTAL           | 15,723   | 995      | 2,925                                   | 3,505 | 23,147 | 20,645 | 1,081 | 2,928                                   | 5,865 | 30,520  | 26,041 | 1,167        | 2,939    | 6,603 | 36,749 | 32,692 | 1,252    | 2,949    | 9,107  | 48,000     |

NOTE: Served population includes served population by the system outside of the basin.

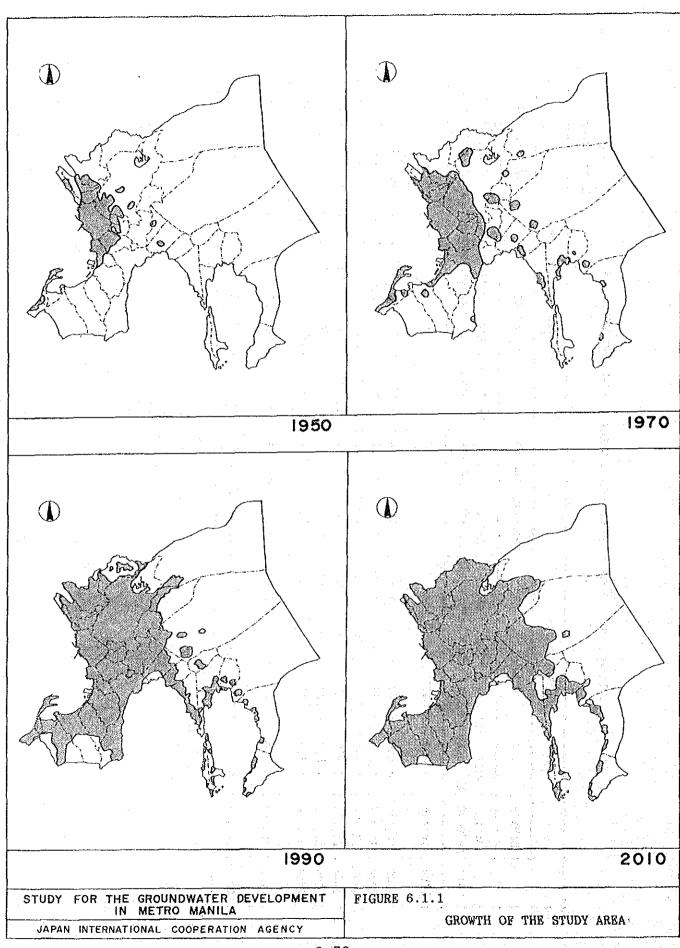
TABLE 6.2.33 WATER DEMAND PROJECTION IN THE MWSS SERVICE AREA

| 00K.         COB.         IMD.         LOSS.         TOTAL         DOM.         COM.         DOM.  | - Alexand                 |        |          | 1995                                    |       |        |        |   | 2000                                    |        |        |        |          | 2002  |          |        |          |             | 2010     |       |         |
|--|---------------------------|--------|----------|---|-------|--------|--------|---|---|--------|--------|--------|----------|-------|----------|--------|----------|-------------|----------|-------|---------|
| 2,554         100         0 </th <th>BAKANARI/<br/>BUNICIPALITY</th> <th>DOK.</th> <th>:</th> <th>,</th> <th></th> <th>TOTAL</th> <th>DOK.</th> <th>CON</th> <th>is.</th> <th>. SS07</th> <th>TOTAL</th> <th>DOM.</th> <th>COK. 1</th> <th>ED.</th> <th>Loss.</th> <th>TOTAL</th> <th>3004</th> <th>:0H:</th> <th>IMD.</th> <th>Poss.</th> <th>TOTAL</th>  | BAKANARI/<br>BUNICIPALITY | DOK.   | :        | ,                                       |       | TOTAL  | DOK.   | CON                                     | is.                                     | . SS07 | TOTAL  | DOM.   | COK. 1   | ED.   | Loss.    | TOTAL  | 3004     | :0H:        | IMD.     | Poss. | TOTAL   |
| 0         0         0         0         642         18         3         284         947         1,321         31         5         462         1,993         1,475         5,443         5,035         117         18         1,321         6,491         1,185         277         6         1         1,165         5,443         5,035         117         18         1,321         6,491         1,301         1,301         6,491         1,301         1,301         6,491         1,301         1,301         6,491         1,301         1,301         1,301         6,491         1,301         1,301         1,401         6,491         1,301         1,301         1,401         6,491         1,301         1,301         1,401         6,491         1,301         1,301         1,301         1,401         1,401         1,401         1,401         1,401         1,401         1,401         1,401         1,401         1,101         1,401  | Bagong Mayon              | 0      | 0        | 6                                       | 0     | 0      |        |   | 0                                       |        | 5      |        | 0        | 6     | 0        |        | 0        | 6           | 6        | -     | 0       |
| 2,554         100         19         1,145         3,818         3,846         105         17         1,475         3,443         5,043         5,043         117         18         1,321         6,491         4,677         1,117         18         1,321         6,491         4,677         4,374         283         1,11         1,125         217         1,101 <th< td=""><td>Santa Cruz</td><td>Φ</td><td></td><td>÷</td><td>0</td><td>0</td><td>843</td><td><b>₩</b></td><td>~</td><td>284</td><td>947</td><td>1,321</td><td>===</td><td>Les</td><td>152</td><td>1,809</td><td>2,222</td><td>52</td><td>~</td><td>500</td><td>3,032</td></th<>   | Santa Cruz                | Φ      |          | ÷                                       | 0     | 0      | 843    | <b>₩</b>                                | ~                                       | 284    | 947    | 1,321  | ===      | Les   | 152      | 1,809  | 2,222    | 52          | ~        | 500   | 3,032   |
| 172         27         237         26         1         105         349         318         7         1497         4,374         253         16         1,001         5,644         1         11         220         2,006         3,609         84         13         16         1,001         5,644         1         11         220         2,006         3,609         84         13         1,187         677         4,374         253         16         1,001         5,644         1         11         120         3,609         84         13         1,187         678         3,005         84         1,21         1,187         678         3,005         84         1,21         1,187         678         1,349         3,005         84         1,21         1,131         1,211         1,131         1,211         1,132         1,131         1,132   | De La Pez                 | 2,554  | 1001     | 13                                      | 1,145 | 3,818  | 3,846  | 105                                     | 13                                      | 1,475  | 5,443  | 5,035  | 11       | 8     | 1,321    | 6, (91 | 6,401    | 129         | 2        | 1,780 | 8,330   |
| 1,755         221         13         101         2,130         3,155         237         14         691         4,974         4,374         253         16         1,001         5,644           1,729         67         13         500         2,369         2,604         71         11         220         2,906         3,509         84         13         1,311         7,332           1,585         62         11         711         2,563         7,664         73         1,1137         67         1,217         1,311         7,312           1,537         52         10         599         1,998         2,643         626         11         1,169         4,349         3,800         543         14         1,311         7,312           1,00         0         0         0         0         14         2         224         746         806         19         376         1,103           826         3,171         1,255         983         2,46         2,364         22,567         1,149         3,26         1,621           0         0         0         0         0         0         0         0         0         0  | Beverly Hills             | 172    |          |   | ==    | 257    | 23.7   | جه                                      |   | 105    | 348    | 318    | -        |       | 109      | 136    | 410      | 00          |          |       | 560     |
| 1,729         67         13         500         2,309         2,604         71         11         220         2,906         3,609         84         13         511         4,217           1,585         62         11         71         2,818         1,187         6,762         3,305         77         2,819         1,131         7,332           1,337         52         10         0         0         0         66         3,134         12,881         16,131         1,169         4,349         3,800         543         14         1,301         5,657           9,171         509         66         3,134         12,881         16,187         1,665         22,4         746         806         19         3         276         1,103           0         0         0         0         0         173         2         4         455         1,145         1,184         2         8         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101 <td>San Roque</td> <td>1,795</td> <td>221</td> <td></td> <td>101</td> <td>2,130</td> <td>3,155</td> <td>23.7</td> <td>==</td> <td>691</td> <td>1,007</td> <td>4,374</td> <td>253</td> <td>#1</td> <td>1,001</td> <td>5,644</td> <td>5,548</td> <td>263</td> <td>F~</td> <td></td> <td>7,159</td>   | San Roque                 | 1,795  | 221      |   | 101   | 2,130  | 3,155  | 23.7                                    | ==                                      | 691    | 1,007  | 4,374  | 253      | #1    | 1,001    | 5,644  | 5,548    | 263         | F~       |       | 7,159   |
| 1,586         62         11         71         2,583         2,684         73         2,818         1,187         6,762         3,305         77         2,819         1,131         7,332           1,337         52         10         0         0         0         0         0         0         0         224         76         3,800         543         1,131         7,103         1,100         10         10         10         10         10         10         1,103         1,113         1,113         1,113         1,113         1,113         1,113         1,113         1,113         1,113         1,113         1,113         1,114         1,114         1,114 <td>Dalig</td> <td>1, 729</td> <td>- 6</td> <td>=======================================</td> <td>500</td> <td>2,309</td> <td>2,604</td> <td>=======================================</td> <td>=======================================</td> <td>220</td> <td>906'2</td> <td>3,609</td> <td><u>~</u></td> <td>11</td> <td>511</td> <td>4,213</td> <td>1,574</td> <td>25</td> <td><b>=</b></td> <td></td> <td>5,516</td> | Dalig                     | 1, 729 | - 6      | ======================================= | 500   | 2,309  | 2,604  | ======================================= | ======================================= | 220    | 906'2  | 3,609  | <u>~</u> | 11    | 511      | 4,213  | 1,574    | 25          | <b>=</b> |       | 5,516   |
| 1,337         52         10         599         1,998         2,643         526         11         1,169         4,349         3,800         543         14         1,103         224         746         806         19         3         276         1,103         3         276         1,103         3,800         543         14         1,103         3         276         1,103         3         276         1,132         2,888         6,101         32,688         1,103         1,133         27         4         435         1,144         1,132         2,888         6,101         32,688         1,103         1,134         1,134         456         1,158         1,105         2,878         5,354         25,587         1,144         2,384         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6,101         32,688         6  | San Jose                  | 1,585  | 23       | ==                                      | 111   | 2,369  | 2,684  | -33                                     | 2,818                                   | 1,187  | 6,762  | 3,305  |          | 2,819 | 1,131    | 7,332  | 4,188    | ≵           | 2,819    |       | 8,520   |
| 9,171 509 66 3,134 12,881 16,318 1,050 2,878 5,354 25,599 22,567 1,132 2,888 6,101 32,688 826 32,567 1,125 983 27 4 435 1,449 1,184 28 4 405 1,521 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | San Isidro                | 1,337  | 23       | 2                                       | 586   | 1,998  | 2,643  | 526                                     | =                                       | 1,169  | 21.5   | 3,800  | 543      | ==    | 1,301    | 5,657  | 5,215    | 559         | 91       | -     | 7,568   |
| 9,171 509 66 3,134 12,881 16,318 1,050 2,878 5,354 25,599 22,567 1,132 2,888 6,101 32,688 8 8 6,101 32,688 8 8 6,101 32,688 8 8 6,101 32,688 8 8 8 6,101 32,688 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8  | San Luis                  | 6      | 9        | 0                                       | 6     | =      | 506    | #                                       | £\3                                     | 224    | 116    | 808    | 61       | ~~    | 278      | 1,103  | 1,024    | 12          | F7)      | 343   | 1,397   |
| 826 32 6 371 1,235 983 27 4 435 1,449 1,184 28 4 405 1,521 64 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | SUB-TOTAL                 | 9,171  | i        | 95                                      | WF 67 | 12,881 | 16,318 | 1,050                                   | 2,878                                   | 5,354  | 25,599 | 22,567 | 1,132    | 2,888 | 6,101    | 32,688 | 29,582   | 1,200       | 2,856    | 8,414 | 42,092  |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | Taytar                    | 828    | 67       | 9                                       | 371   | 1,235  | 883    | 2.7                                     | -                                       | 138    | 1.449  | 30     | 883      |       | 705      | 1,621  | 1,398    | 82<br>63    | ***      | 1     | 1 903   |
| 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | . Angono                  | -      | <b>~</b> | 0                                       | 0     |        | 173    | 140                                     | 9                                       | -      | 300    | 314    | £        | 5     | 55       | 184    | 955      | E*→<br>•~•1 | 00       | 101   | 1,024   |
| 826 32 6 371 1,235 1,156 32 50 511 1,750 1,498 35 51 502 2,085 5,986 541 72 3,505 14,116 17,474 1,081 2,928 5,865 27,349 24,065 1,167 2,939 6,603 34,773 6,4 39 2 100 100 100 100 100 100 100 100 100 1  | . Binangonan              |        | 6        | 0                                       | 0     |        | 0      | 0                                       | <b>-</b>                                | 0      | 65     | =      | 6        | 0     | 5        | 6      | 273      | 40          |          |       | 373     |
| 826     32     6     371     1,235     1,156     32     50     511     1,750     1,498     35     51     502     2,085       9,938     541     72     3,505     14,116     17,474     1,081     2,928     5,865     27,349     24,065     1,167     2,939     6,603     34,713       64     39     2     100     61     85     100     100     90     92     100     100     100     95  | . Teresa                  | 0      |          | 0                                       | 0     | 0      | 0      | 0                                       | <b>=</b>                                | 6      |        | 0      | <u></u>  |       | <u>.</u> | 0      | YO<br>VO | 1           | 0        | 23    | 66      |
| 9,998 541 72 3,505 14,116 17,474 1,081 2,928 5,865 27,349 24,065 1,167 2,939 6,603 34,773 84 39 2 100 61 85 100 100 100 90 92 100 100 100 85   | SUB-TOTAL                 | 828    |          | 60                                      | 371   | 1,235  | 1,156  | 32                                      | 20                                      | 2115   | 1,750  | 1,498  | 32       | 51    | 502      | 2,085  | 2,595    | 22          | to<br>to | 653   | 3,393   |
| 64 39 2 100 61 85 100 100 90 92 100 100 100  | TOTAL                     | 856.6  | 541      | 22                                      | 3,505 | 14,116 | 11,474 | 1,081                                   | 2,928                                   | 5,865  | 27,349 | 24,065 | 1,167    | 2,939 | 6,603    | 34,773 | 32,177   | 1,252       | 2,949    | 9,107 | 45,485  |
|  | SERVICE RATIO (X)         | 20     | 65       | 62                                      | 100   | 150    | 58     | 100                                     | 100                                     | 100    | 8      | 35     | 100      | 100   | 100      | 35     | 88       | 100         | 100      | 100   | е<br>61 |

TABLE 6.2.34 WATER DEMAND AND SUPPLY IN THE ANTIPOLO BASIN

(UNIT: CU.M/DAY)

| DEMAND   SUP   PALLY   MWSS PRIVATE   DALLY   MWSS PRIVATE   1990   19,456   9,809 9,647   1996   24,622   9,809 9,647   1996   24,622   9,809 9,647   1998   27,571   9,809 9,647   1999   23,045   9,809 9,647   2000   30,520   9,809 9,647 |             |               |               |                  |   |         |         |                |                               |         |          |
|--|-------------|---------------|---------------|------------------|---|---------|---------|----------------|-------------------------------|---------|----------|
| YEAR AVERAGE EX. WELL WELL  1990 19,456 9,809 9,647  1995 23,147 9,809 9,647  1996 24,622 9,809 9,647  1997 26,096 9,809 9,647  1998 27,571 9,809 9,647  2000 30,520 9,809 9,647   | SUPPLY      | Ä             |               | SHORTAGE; DEMAND | DEMAND                                  |         | SUPPLY  | PLY            |                               | NET SH  | SHORTAGE |
| 1995   23,147   9,80<br>1995   23,147   9,80<br>1997   26,096   9,80<br>1998   27,571   9,80<br>1999   29,045   9,80<br>2000   30,520   9,80   |             | THSS<br>EHAB. | MWSS AUGMENT. | DAILY            | DAILY                                   | MASS PI | PRIVATE | MHSS<br>REHAB. | MWSS DAILY<br>AUGMENT AVERAGE |         | DAILY    |
| 1995   23,147   9,80<br>1996   24,622   9,80<br>1997   26,096   9,80<br>1998   27,571   9,80<br>1999   29,045   9,80<br>2000   30,520   9,80   | 309 9,647   |               |               |                  | 1 | 9,809   | 2,434   |                |                               |         |          |
| 1996   24,622   9,80<br>1997   26,096   9,80<br>1998   27,571   9,80<br>1999   29,045   9,80<br>2000   30,520   9,80   | 309 9,647   | 2,070         | 5,810         | (4,189);         | 14,116                                  | 9,809   | 2,434   | 2,070          | 5,810                         | (6,007) | 1,051    |
| 1997 ; 26,096 ; 9,80<br>1998 ; 27,571 ; 9,80<br>1899 ; 29,045 ; 9,80<br>2000 ; 30,520 ; 9,80   | 9,809 9,647 | 2,070         | 5,810         |                  | 16,763                                  | 9,809   | 3,512   | 2,070          | 5,810                         | (4,439) | 3,943    |
| 1998; 27,571; 9,80<br>1999; 29,045; 9,80<br>2000; 30,520; 9,80   | 309 9,647   | 2,070         | 5,810         | (1,240);         | 19,409                                  | 9,809   | 4,591   | 2,070          | 5,810                         | (2,871) | 6,834    |
| 1999; 29,045; 9,80<br>2000; 30,520; 9,80   | 309 9,647   | 2,070         | 5,810         | 235              | 22,056                                  | 9,809   | 5,669   | 2,070          | 5,810                         | (1,303) | 9,725    |
| 2000 ; 30,520 ; 9,80   | 309 9,647   | 2,070         | 5,810         | 1,709            | 24,702                                  | 608,6   | 6,748   | 2,070          | 5,810                         | 265     | 12,617   |
|  | 309 9,647   | 2,070         | 5,810         | 3,184            | 27,349                                  | 9,809   | 7,826   | 2,070          | 5,810                         | 1,834   | 15,508   |
| 2005; 36,749; 9,809 9,647  | 809 9,647   | 2,070         | 5,810         | 9,413            | 34,773                                  | 9,809   | 8,512   | 2,070          | 5,810                         | 8,572   | 25,958   |
| 2010 : 46,000 ; 9,80   | 9,809 9,647 | 2,070         | 5,810         | 18,664           | 45,485                                  | 8,809   | 9,647   | 2,070          | 5,810                         | 18,149  | 40,892   |



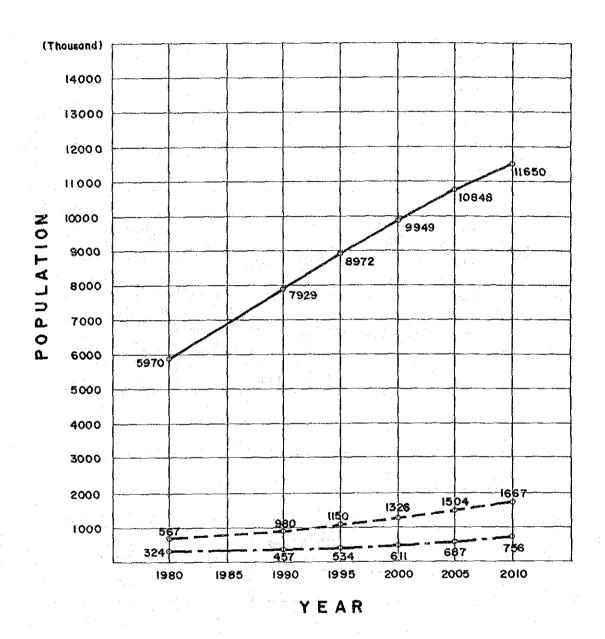
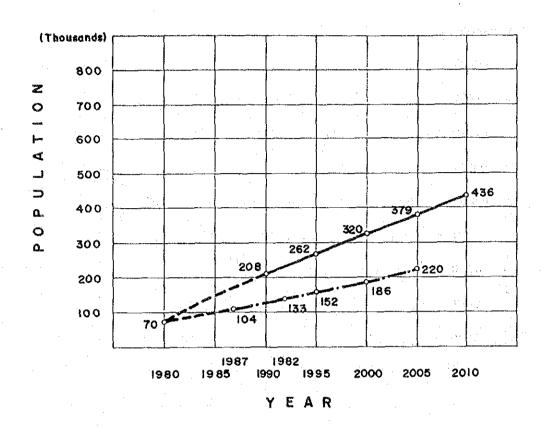




FIGURE 6.1.2

ESTIMATED POPULATION GROWTH OF THE STUDY AREA



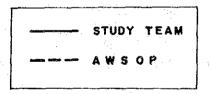
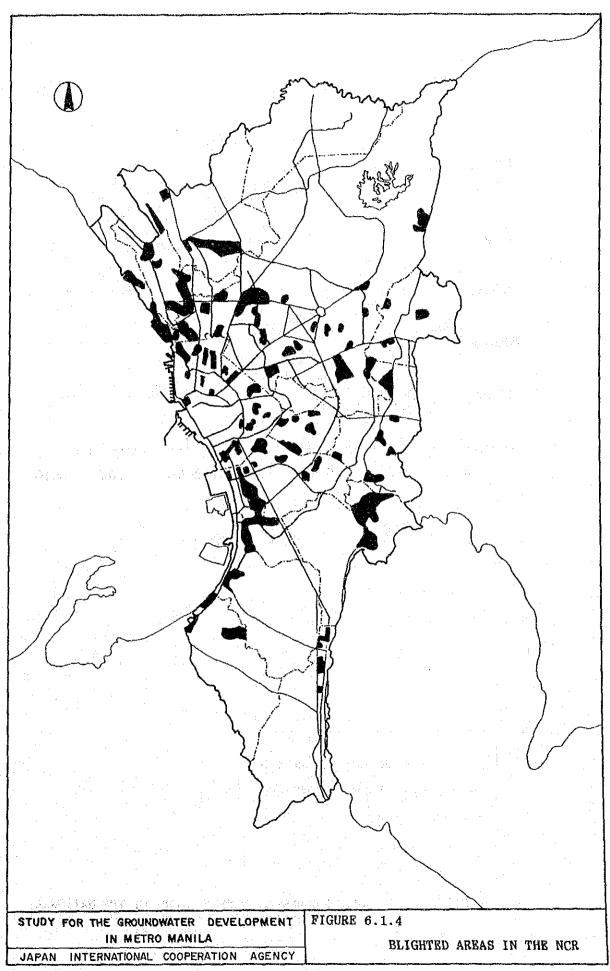
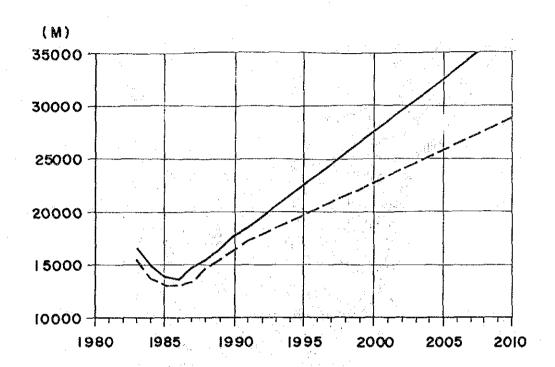


FIGURE 6.1.3 COMPARISON BETWEEN AWSOP'S AND THE JICA TEAM'S POPULATION: PROJECTION FOR THE MUNICIPALITY OF ANTIPOLO





YEAR

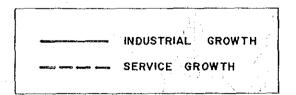


FIGURE 6.1.5 GROSS DOMESTIC PRODUCT (GDP) OF THE NATIONAL CAPITAL REGION

