

MANILA WATER SUPPLY	
Production & Distribution	<p>Population¹: 16,740,000 (2001)</p> <p>Annual Production 1,491,000,000 m³ Groundwater 2% Surface Water 98%</p> <p>Annual Consumption Domestic 338,900,000 m³ Nondomestic 221,520,000 m³ Total 560,420,000 m³</p>
Service Connections	<p>Domestic² 794,827 Nondomestic 160,673 Total 955,500</p>
Service Indicators	<p>Service Coverage³ 58% 24-hour Water Availability 88% Per Capita Consumption 127 l/c/d Average Tariff US\$0.140/m³</p>
Efficiency Indicators	<p>Nonrevenue Water 62% Unit Production Cost US\$0.064/m³ Working Ratio 1.22 Staff/1,000 Connections 4.4 Revenue Collection Efficiency 97.3%</p>
Small-scale Water Providers	<p>A study of households in the National Capital Region comprising most of Metro Manila indicated that as much as 23% of households obtain their water from small-scale private water vendors reselling MWSS water or from tubewells at rates of about P150 (US\$2.92)/m³. About 5% of households get water from small-scale private operators with their own deep well sources and small distribution networks at costs that are 20–50% higher than the MWSS rates. Bottled water costs about P50 (US\$0.97)–180 (US\$3.50)/20 liters.</p>
Private Sector Participation	<p>In 1997, the operations of MWSS were turned over to two private companies through 25-year concession contracts for the east zone (Manila Water Company, Inc.) and the west zone (Maynilad Water Service, Inc.) of the service area, respectively. Both companies are consortiums.</p>
Flood Management	<p>There is recurrent flooding in Metro Manila from the combined effects of water outflow from the Pasig-Marikina River, the Laguna Lake basin, and an inadequate urban drainage system. Flash floods also occur in some areas due to local drainage problems and clogging of drains. Flooding caused by high tides combined with the river outflows affects low-lying municipalities adjacent to Manila Bay. The Government is undertaking repairs of river banks and improving pumping stations, floodgates, and drainage channels with funding from the Japan Bank for International Cooperation.</p>
Notes	<p>¹ This is the population of Metro Manila. The population in the MWSS service area is about 12,661,000. ² The average number of persons per connection is 9.2. The increase in connections in 2001 was 66,357. ³ Those not served by either of the two concessionaires are connected to piped systems in private subdivisions or are served by small-scale service providers or water vendors. Others have their own household wells.</p>
Data as of 2001.	

