

**Table 19** summarizes the total projected water use by City customers in the next 25 years.

<b>Table 19</b>							
<b>Total Water Use - AF Year</b>							
Water Use	1999-2000	2005	2010	2015	2020	2025	2030
<b>Total</b>	35,008	35,156	36,663	37,319	37,319	37,319	37,319

## 2.8 Demand Management Measures

The City recognizes the importance of water conservation and has made water use efficiency an integral part of water use planning. The City has also implemented and is actively participating in many water conservation activities. Although presently not a member of CUWCC and not a signatory to its BMPs, the City nevertheless has implemented many BMPs. The City is in the process of joining CUWCC and will shortly become a signatory. The following summarizes the current state of BMP implementation by the City.

***BMP No. 1 - Water survey programs for single-family residential and multifamily residential customers.***

The City conducts residential surveys on an as needed basis or in response to customer requests.

***BMP No. 2 - Residential plumbing retrofit.***

The City of Orange and MWDOC have provided water conservation kits free to customers at special events and upon individual requests. These include low-flow showerheads, toilet tank displacement devices, dye tablets to detect toilet leaks, water conservation tips, and general information. Additionally, the City of Orange enforces the water conserving plumbing fixture standards of the uniform plumbing code, including the requirement for ultra-low-flush toilets and low flow showerheads in all new construction.

***BMP No. 3 - System water audits, leak detection, and repair.***

Emergency Response – The City of Orange responds to leaks, hydrant knock-offs, and other emergencies on a 24-hour basis. Stand-by crews repair all leaks quickly and efficiently to minimize losses. From time to time, the City surveys specific neighborhoods for leak detection.

Pipeline and Service line Replacement – The City has an ongoing program to replace deteriorated and substandard pipelines and service lines.

Valve and Hydrant Program – All valves in the system are exercised and maintained at regular intervals. This facilitates prompt shut-offs for repairs when necessary and minimizes water losses.

***BMP No. 4 - Metering with commodity rates for all new connections and retrofit of existing connections.***

The City meters all service connections and bill customers bi-monthly based on water consumption.

***BMP No. 5 - Large landscape conservation programs and incentives.***

Not implemented.

***BMP No. 6 - High Efficiency Clothes Washers.***

Implemented through MWDOC. See Table 20 below.

***BMP No. 7 - Public information programs.***

The City maintains an active public information program to promote and educate customers about water conservation. The following activities are included in the public information program: bill inserts / newsletters / brochures, bill showing water usage in comparison to previous year's usage, program to coordinate with other government agencies, industry and public interest groups and media.

***BMP No. 8- School Education.***

Implemented through MWDOC. See Table 21 below.

***BMP No. 9 - Conservation Programs for Commercial, Industrial and Institutional Accounts***

Commercial and Industrial water customers of the City of Orange have the opportunity to participate in the regional programs of MWD and MWDOC. See Table 22 below.

***BMP No. 10 - Wholesale Agency Programs:***

Not applicable to the City.

***BMP No. 11 - Conservation Pricing***

The City of Orange promotes conservation through a multi-tier block pricing structure, which became effective in 2001.

***BMP No. 12 - Water Conservation Coordinator***

MWDOC employs on behalf of all member agencies 3 full-time equivalents for the exclusive purpose of promoting water use efficiency programs within their district. The City of Orange utilizes various staff on an as-needed basis to support water conservation activities but has no permanently assigned full-time Water Conservation Coordinator. Communication regarding regional water use efficiency programs and policies is directed to the Water Manager, who assigns appropriate resources based upon staffing and budgetary opportunities.

***BMP No. 13- Water Waste Prohibition***

The City of Orange has adopted ordinances to prohibit wasting of water. The following are sections related to the prohibition of water waste in the City of Orange Municipal Code:

**Section 13.04.160 Water Waste—Prohibited**

It is unlawful for any consumer to wastefully or negligently use water or to otherwise detrimentally impact the service to other consumers.

**Section 13.04.170 Water Waste—Discontinuance of Service**

Where the Water Manager finds that water is wastefully and negligently used contrary to the provisions of this title, the City may discontinue the service if such conditions are not corrected within five days after written notice to the consumer.

**Section 13.28.010 Refusal by City to Furnish Water—Reasons**

The City may refuse to furnish water and may discontinue service to any premises for any of the following reasons:

- A. Where apparatus, appliances or equipment using water is dangerous, unsafe, or not in conformity with any law or ordinance;
- B. Where the demand is greatly in excess of past average or seasonal use;
- C. Where such excessive demands by one consumer are or may be detrimental or injurious to other consumers;
- D. Where excessive demands by one consumer will result in inadequate service to others;
- E. To protect the City against fraud or abuse;
- F. Where a consumer fails to comply with any City ordinance or regulation of the Water Department within five days after receiving written notice thereof; and
- G. Where a consumer fails to comply and such failure to comply affects matters of health and safety, in which case the City may discontinue water service immediately.

***BMP No. 14 - Ultra-Low-Flush Toilets***

Implemented through MWDOC. See Table 23 below.