

3.0 WATER USE

3.1 Past, Current and Projected Water Use

Table 3.1 shows the past, current and projected water use for each water use sector in the District and Marina del Rey Water System. Based on SCAG population projections, water use within the District will increase 45% over the next 25 years.

Table 3.1 Past, Current, and Projected Water Use by District Customers and Customers of the Marina del Rey Water System (Acre-Feet)

Water Use Sectors	2000	2001	2004	FY '04-'05	2010	2015	2020	2025	2030
Single Family Residential	-	6,381	7,293	6,827	7,712	8,321	8,946	9,552	10,111
Multi-Family Residential	-	681	667	667	753	813	874	933	987
Commercial	-	443	443	445	503	495	495	495	495
Private Fire Protection	-	20	25	27	30	32	35	37	39
Landscape / Irrigation	-	153	198	166	188	203	218	233	246
Other	-	592	954	963	1,088	1,221	1,350	1,474	1,591
Water Sold	8,228	8,270	9,579	9,095	10,274	11,085	11,918	12,724	13,469
Water Purchased	9,450	9,733	10,715	9,941	11,302	12,194	13,110	13,997	14,816

⁽¹⁾ Landscape/Irrigation does not include recycled water use at Pepperdine University

⁽²⁾ Includes: Private Fire Protection, Temporary Construction, Combined Domestic & Private, Gov't/Public Agencies, and Other Sectors

⁽³⁾ Water Purchased accounts for 10% loss of wholesale water due to the condition of the District's distribution system

The District began tracking water use by customer type in 2001. Previously, water use data was only available for the District as a whole. Projected water use through 2030 was estimated using the recorded water use per person based on the District's historic billing records and the population projections made by SCAG. Current water use in the District was estimated at 97,600 gallons/year/person (0.2995 acre-feet/year/person) using data from 2000-2005.

Table 3.2 below displays the actual and projected number of connections by customer type for years 2000 to 2030. Based on these numbers, connections are estimated to increase by approximately 46 percent by the year 2030.

Table 3.2 Number of Connections by Customer Type
(By District Customers and Customers of Marina del Rey Water System)

Connection Type	2000	2005	2010	2015	2020	2025	2030
Single Family Residential	6,795	7,079	7,815	8,491	9,152	9,792	10,382
Multi-Family Residential	39	39	43	46	50	53	56
Commercial	22	22	24	26	28	30	32
Private Fire Protection	82	82	90	98	105	112	119
Landscape / Irrigation	31	31	34	37	40	42	45
Other ⁽¹⁾	67	67	74	80	86	92	97
Marina del Rey Customers	295	295	300	300	300	300	300
Total No. of Meters	7,331	7,615	8,381	9,079	9,761	10,421	11,031

⁽¹⁾ Other Connections includes: Private Fire Protection, Temporary Construction, Public/Gov't Agencies, Combined Domestic & Private, and Other
Source: County Waterworks Division

3.2 Residential Sector

Single Family and Multi-Family Residential Customers account for the majority of water use within the District. For the District, the average number of persons per household is 2.8 based on SCAG estimates from 2000. For the Marina del Rey Water System the average persons per dwelling unit is 1.73 according to SCAG estimates.

Residential customer connections have increased 4 percent since 2000. Over the next 25 years, development in the residential sector will consist of infill growth and conversion of commercial facilities into multi-family residential units.

3.3 Commercial/Institutional Sector

The District's service area includes a commercial sector ranging from markets and restaurants to shopping centers. The commercial sector is predominately within the Marina Del Rey Water System service area and along the coastline in the City of Malibu, due to the high tourist activity along the Pacific Coast Highway. The commercial connections are expected to have minimal growth over the next twenty years due to the built out commercial sector of the District.

The service area has a stable institutional sector within the District, which includes government buildings for the City of Malibu, schools, public facilities, and public hospitals. Growth in this sector is also expected to be minimal for the next 25 years.

3.4 Landscape/Irrigation Sector

Landscape irrigation includes golf courses, residential lawns, parks, and schools. All landscape irrigation uses potable water except for landscape within Pepperdine University. All irrigation water use in Pepperdine is recycled water from the Malibu Mesa Reclamation Plant.

3.5 Other

The remainder of the water use in the District is for private fire protection, construction, and public/government facilities.