



AWWA
**Research
Foundation**

Residential
End Uses
of Water

Subject Area:
Water Resources

Table 5.3 Fixture utilization per capita per day, mean and standard deviation, 12 study sites

Study site	Toilet flushes per capita per day		Showers & baths per capita per day		Clothes washer loads per capita per day		Dishwasher loads per capita per day		Faucet minutes per capita per day	
	Mean	St.Dev.	Mean	St.Dev.	Mean	St.Dev.	Mean	St.Dev.	Mean	St.Dev.
Boulder	4.79	2.25	0.81	0.53	0.34	0.22	0.13	0.10	8.4	4.9
Denver	5.10	2.71	0.80	0.48	0.37	0.26	0.11	0.10	7.5	4.4
Eugene	5.62	3.40	0.90	0.65	0.40	0.32	0.13	0.14	9.1	6.6
Seattle	4.49	2.28	0.75	0.51	0.30	0.17	0.10	0.11	6.9	4.4
San Diego	5.20	2.39	0.63	0.32	0.42	0.27	0.10	0.08	8.1	4.0
Tampa	4.85	2.61	0.70	0.54	0.36	0.24	0.06	0.10	9.4	6.5
Phoenix	5.31	3.00	0.77	0.49	0.40	0.29	0.08	0.07	6.7	3.6
Tempe & Scottsdale	5.12	2.67	0.82	0.73	0.36	0.24	0.11	0.08	8.6	7.2
Waterloo & Cambridge	5.51	3.31	0.63	0.64	0.35	0.21	0.08	0.11	8.0	6.0
Walnut Valley WD	4.69	2.50	0.74	0.37	0.34	0.20	0.07	0.07	9.0	6.1
Las Virgenes MWD	4.73	2.38	0.74	0.44	0.40	0.28	0.09	0.07	8.2	5.4
Lompoc	5.19	2.82	0.71	0.43	0.38	0.20	0.09	0.10	7.5	5.1
12 study sites	5.05	2.69	0.75	0.51	0.37	0.24	0.10	0.09	8.1	5.3

The relative percent of per capita water used for indoor purposes across all twelve study sites is shown in Figure ES.2.

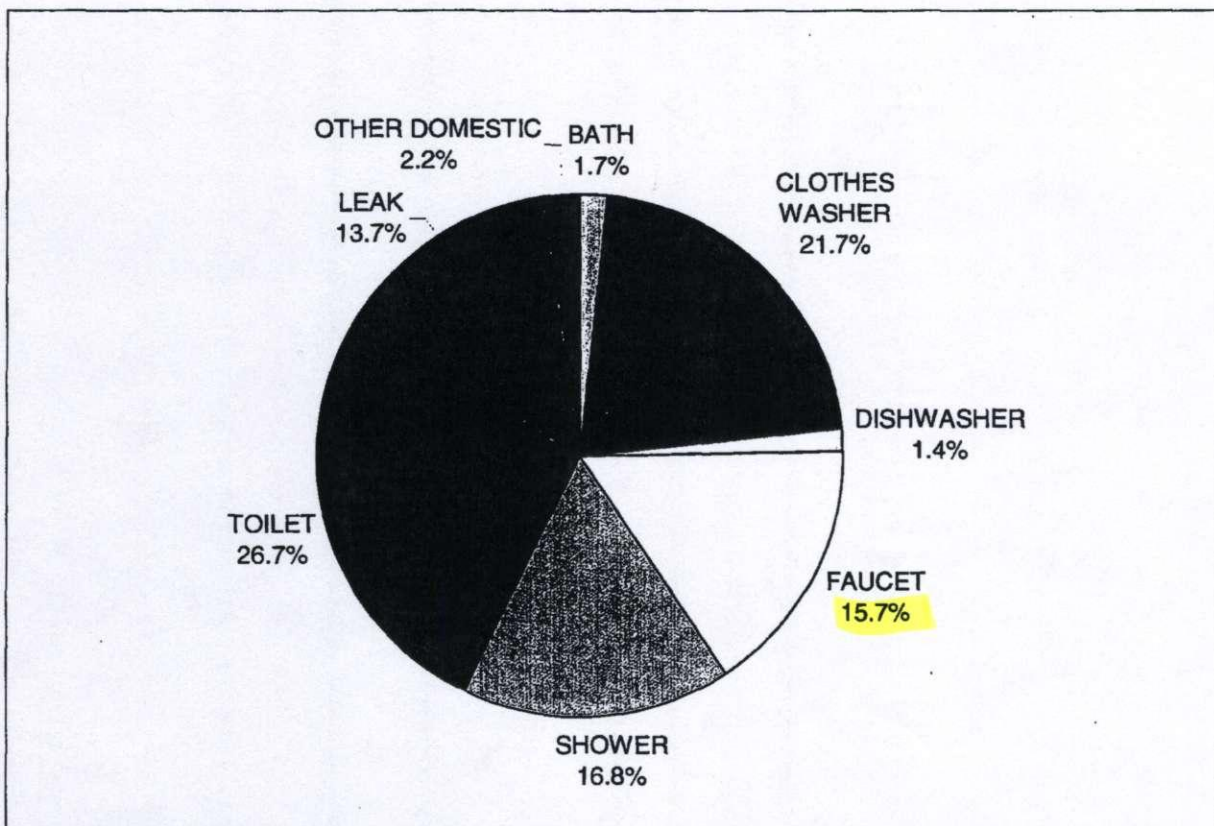


Figure ES.2 Indoor per capita use percent by fixture, 12 study sites

Leaks

In the REUWS it was found that a small number of homes were responsible for the majority of the leakage. While the average daily leakage was 21.9 gallons, the standard deviation was 54.1 indicating a wide spread in the data. The median leakage rate was only 4.2 gallons per household per day. Nearly 67 percent of the study homes leaked an average of 10 gallons per day or less, but 5.5 percent of the homes leaked an average of more than 100 gallons per day. Saying it another way, 10% of the homes logged were responsible for 58% of the leaks found.



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