

# University of California Santa Barbara

## Water Consumption Report for 2015

### Water Consumption

#### *Potable Water*

2015 saw the University of California Santa Barbara (UCSB) continue to decrease its potable water consumption. Since Fiscal Year<sup>1</sup> (FY) 2011/12, UCSB has reduced its potable water consumption by 30%. In FY 2014/15, UCSB consumed 502 AF of water, equating to per capita Weighted Campus User<sup>2</sup> (WCU) consumption of 20 gallons/ day, and consumption per gross square footage of 27 gallons/day (for the Main Campus only).

#### *Recycled Water*

UCSB Continues to utilize recycled water, which is produced by Goleta Sanitary District and provided to the Campus by Goleta Water District. In the Goleta Valley, this source of water is underutilized and unstressed. In FY 2014/15, UCSB consumed 184 AF of recycled water.

### 2015 Water Conservation Projects

- Establishment of a voluntary water reduction goal. Reduction of potable water consumption 12% by March 1, 2016, compared to the 2013 baseline
- New recycled water irrigation signage – 40 signs
- New water movie trailers and bus ads
- Held water savings contest between all halls. Saved an average of over 10% in 4 week contest.
- Replaced aerators in 5 buildings, dropping average faucet use over 70% (0.5 gpm vs 2.2 gpm)
- Tested a “shower timer” in Santa Cruz hall to remind students to take a 5 minute shower. Effective initially, but hard water caused problems in units.
- Expanded reclaimed water to San Rafael lawn area
- Brought the reclaimed water line under the UCEN road to the last part of Channel Island 5 buildings (Santa Rosa north/Creative Studies). Next step is to connect to irrigation in 2015.
- Planning all new complexes to include reclaimed (Sierra Madre, San Joaquin, KITP) for irrigation
- Planning for San Joaquin to utilize reclaimed water in a portion of toilets and, potentially, in a cooling tower
- Reduced irrigation of potable water by 50% throughout campus and eliminated potable water irrigation all together in some locations

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<sup>1</sup> Fiscal Year is utilized the University of California for reporting energy and resource consumption data, and is the metric utilized for all reporting. A Fiscal Year runs from July 1 to June 30.

<sup>2</sup> Weighted Campus User is measurement of a college/ university population that is adjusted to accommodate how intensively certain community members use the campus. For example, an institution where a high percentage of students live on campus would witness higher greenhouse emissions, waste generation, and water consumption figures than otherwise comparable non-residential institution since students’ residential impacts and consumption would be included in the institution’s totals.

- Continued education campaign to students and staff about drought and the need to help save water by taking shorter showers, turning off water when brushing teeth, and for all residents and staff to report any leaks for signs of wasted water (irrigation overflow, timers off, etc.)
- Purchased process water cooler to close loop on water being used once and sent to drain. Will save approx. 1 million gallon/year.
- Participated in the 2014 Santa Barbara County Creek Week by hosting outreach events focusing on watershed protection.
- Labeled high priority storm drain inlets across campus with a pollution prevention message similar to “only rain in the drain”
- Surveyed all storm drain outfall locations to identify, investigate, and reduce dry season flows.

### Voluntary 12% Water Consumption Goal

In light of Governor Brown’s statewide potable water reduction goal of 25%, and the 12% reduction that was assigned to Goleta Water District, UCSB adopted a voluntary reduction goal of 12% in the same timeframe and metrics of the Governor’s mandate. This voluntary reduction goal is the only such goal for a college or university within the UC System. Given the aforementioned accomplishments and upcoming projects, it is possible that UCSB achieves this voluntary goal.

### Graphs & Figures

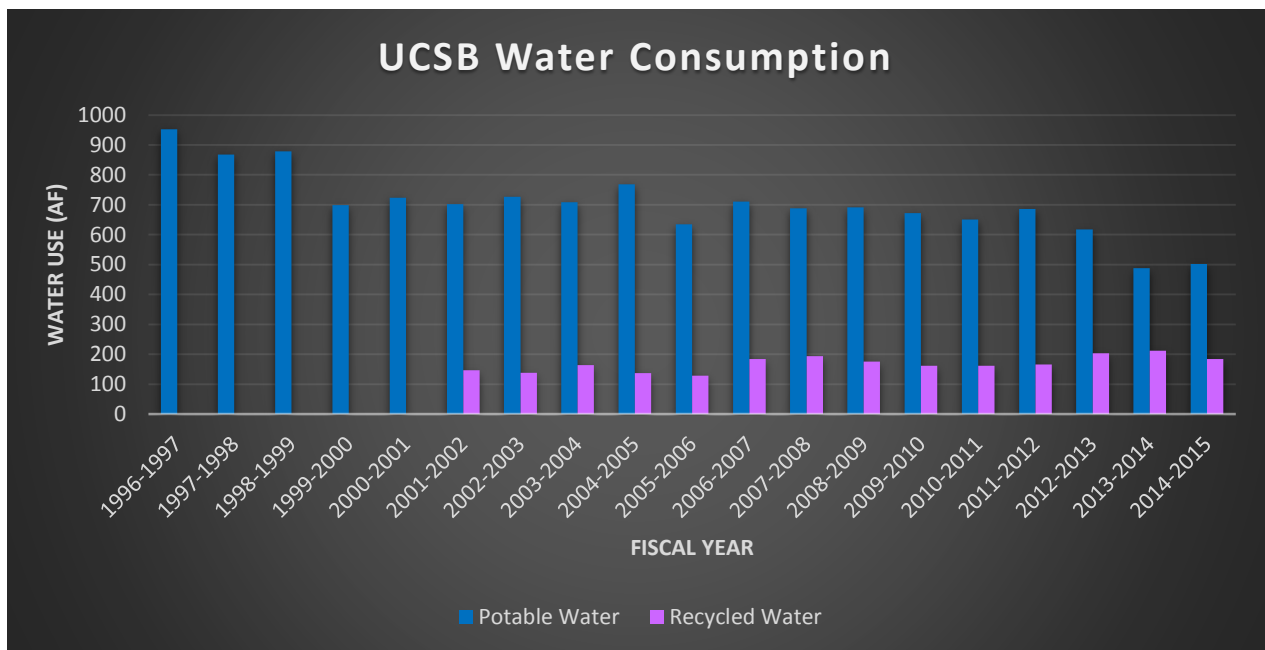


Figure 1: UCSB’s historical water consumption for both potable and recycled water. FY2014-2015 includes water consumption for off-site properties, which are not included in the totals from previous years.

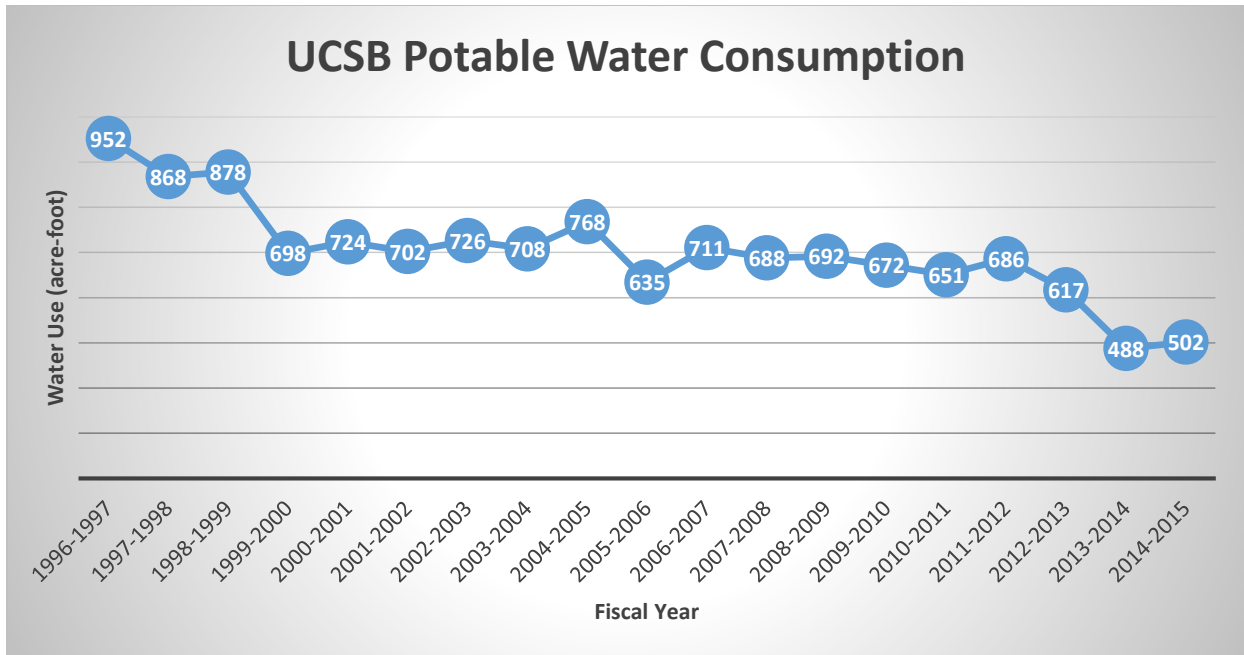


Figure 2: UCSB's historical potable water consumption. FY2014-2015 includes water consumption for off-site properties, which are not included in the totals from previous years.

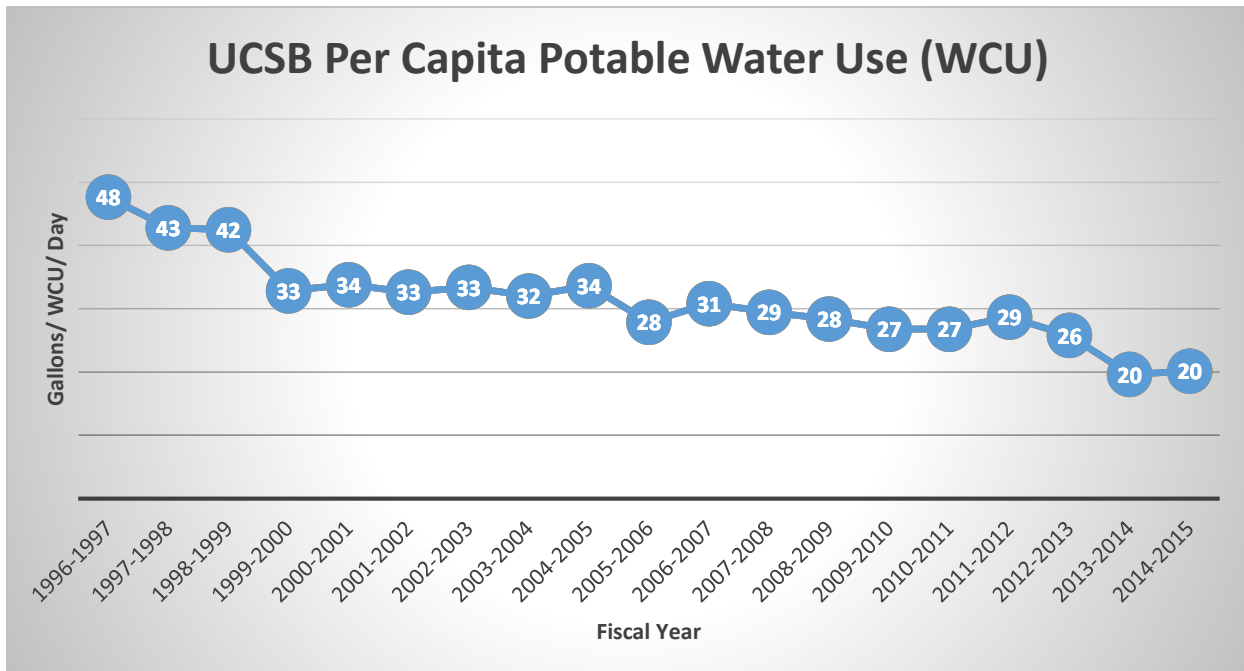


Figure 3: UCSB's historical potable water consumption per Weighted Campus User. FY2014-2015 includes water consumption/ WCU for off-site properties, which are not included in the totals from previous years.

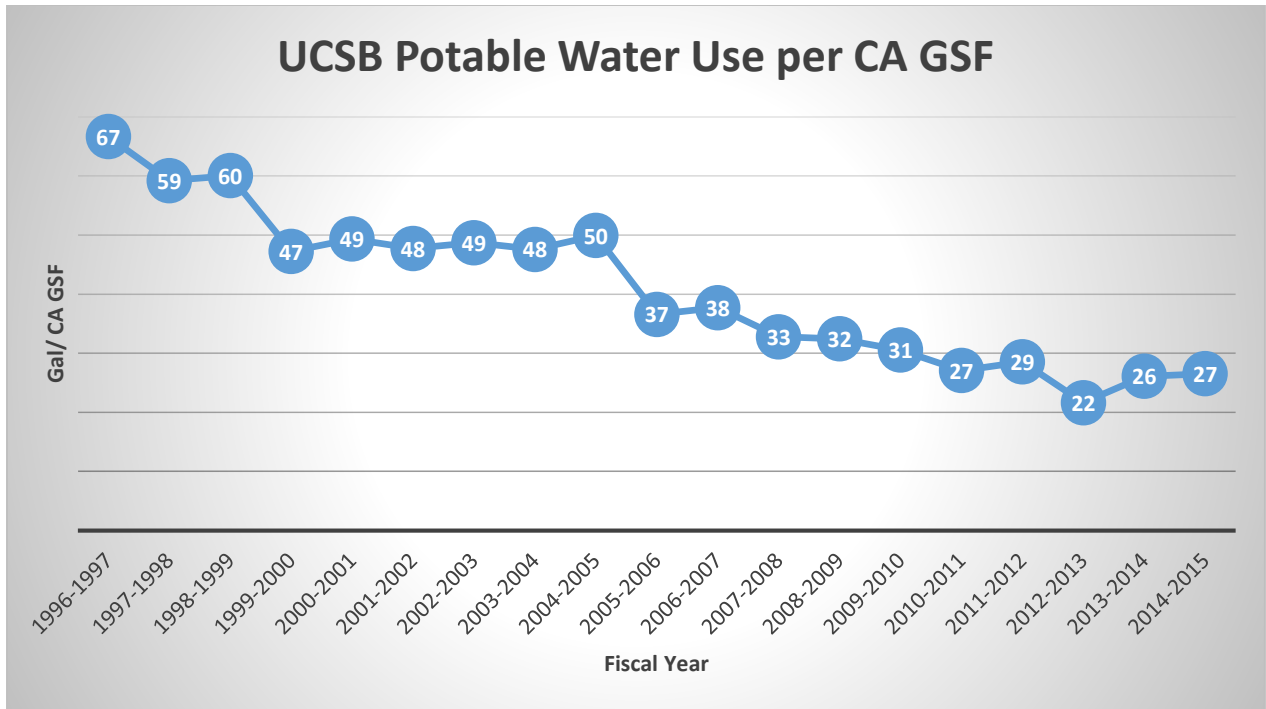


Figure 4: UCSB's historical potable water consumption per California gross square footage.

As noted in footnotes to several of the above graphs, the total water use figures for UCSB operations for 2015 include, for the first time, water use for sites off campus; this explains the slight uptick in water use for the last year. The University leases space in several buildings in the area, and for some the campus pays the water bill and in some, water use is included in the rent. For the “off-site” uses where UCSB pays the water bill, water use is shown below:

UCSB Location	Address	FY2014-2015 Potable Water Consumption (AF)
Library Annex	5531 Ekwil St., Goleta, CA 93111	0.62
Pardall Center	655 Pardall Rd., Goleta, CA 93117	0.11
West Campus Faculty Housing	901-979 West Campus Ln., Goleta, CA 93117	10.07
Ocean Walk at North Campus Faculty Housing	Atlantic Court and Lane, Goleta, CA 93117	12.08
Willow Springs Visiting Scholars Residence	160 Willow Springs Ln., 203, Goleta, CA 93117	0.01

Table 1: This table displays water consumption for properties located outside of the main campus and within Goleta Water District's supply boundaries. Monthly water consumption numbers were provided by Goleta Water District staff and aggregated in this table.

The following off-site uses either don't have measurable water use or water is included in the rent in shared circumstances:

- 1) 389 S. Los Carneros Road (Cabrillo Business Park – Warehouse Property) – Only being used for storage. No water used in 2015.
- 2) 149-151 Castilian Drive (Library Annex) – Offsite library storage. No water used.
- 3) 970 Embarcadero del Mar (Isla Vista Community Resource Building) – Student Affairs leases part of 2<sup>nd</sup> floor (1264 SF) from the County for UCSB's CAPS services (IV Gaucho Support Center) – campus pay a gross rent that includes water and other utilities.
- 4) 6950 Hollister Avenue, Suite 200 (Storke-Hollister Bldg) – UCEAP leases 23,759 SF on second floor, and pays for its water. This is the UC system, not UCSB.
- 5) 6504 Trigo Road Isla Vista (IV Foot Patrol) – UCSB ground leased the property to County. County is responsible for all costs, including water. .