



UC Santa Cruz Profile

Campus Opened in 1965

Main Campus approximately 2,000 acres with 400 developed

Average On-campus Enrollment	16,436
Academic Year 2011-12	
Student Residents	7,950
Academic Year 2011-12	

Ten Residential Colleges


- Apartments and Residence Halls
- Academic Support
- Small-scale residential community
- Dinning commons

Water Use – UCSC Main Campus

Highest usage occurred in 2003-04: 208 MGY – Enrollment 14,087
 Lowest usage occurred in 2011-12: 151 MGY – Enrollment 16,436

UNIVERSITY OF CALIFORNIA
 SANTA CRUZ

Campus Planning



Santa Cruz

UCSC's domestic water (about 180 MGY (million gallons per year) is provided by City of Santa Cruz Water Department (SCWD).

SCWD supply relies entirely on rainfall, runoff and groundwater infiltration occurring within watersheds.

Primary sources are surface water diversions – rivers and streams (75% of total supply).



UCSC usage represents 6% of the total annual water demand in the service area; of SCWD's 90,000 customers, the campus is the largest single customer.

<http://www.cityofsantacruz.com/>

UNIVERSITY OF CALIFORNIA
SANTA CRUZ

Campus Planning

2007 UC Santa Cruz Water Audit

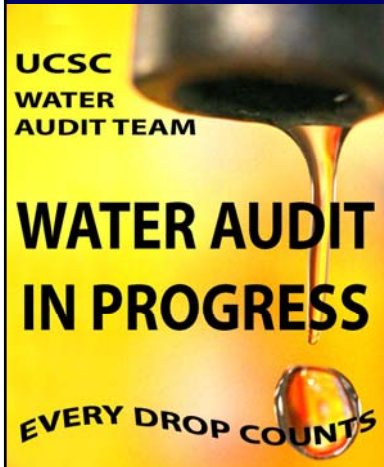



- Teams of trained student auditors
- Signs posted at each facility during an audit
- Auditors wore name tags and provided outreach messages
- All 400 campus buildings surveyed
- Prioritized list of projects that identified potential water savings
- Preliminary payback analysis taking into account costs of water, energy, sewer, etc.

UNIVERSITY OF CALIFORNIA
SANTA CRUZ

Campus Planning

2007 UC Santa Cruz Water Audit



- Campus completed all 19 high priority projects (out of 60 identified)
- Estimated 30 million gallons per year savings from the high priority projects
- Projects were divided into in-house and outside contract
 - In-house included aerator replacement, irrigation water budgets
 - Contracted included toilet replacement, meter installations
- Complications of implementation included code and accessibility upgrades

UNIVERSITY OF CALIFORNIA
SANTA CRUZ

Campus Planning

UC Santa Cruz Water Conservation Student Focused Initiatives



Green Campus Programs:
Interns providing education materials and tips for water conservation to new residents

College "Zero Waste" programs:
organize Water Conservation Month

Dining Halls Green Business
Certificate: eliminate trays to reduce dish washing

UCSC Web Site dedicated to
Water Conservation

http://www1.ucsc.edu/conserving_water/

UNIVERSITY OF CALIFORNIA
SANTA CRUZ

Campus Planning



Sustainability
Office UNIVERSITY OF CALIFORNIA
SANTA CRUZ

Carbon Fund Grant

Natural Bridges Green Career School Water Conservation Project

Through a combination of site modification and a water-relevant curriculum, UCSC undergrads Lucy Ferneyhough and Winfield Atherton are working collaboratively with the Natural Bridges Green Career School faculty and student body to reduce the school's demand for municipally distributed water.

The project recently received a grant from the UCSC Carbon Fund, which will be used in the creation of a rain water harvesting system.

Estimated annual savings - approximately 10,000 gallons



UNIVERSITY OF CALIFORNIA
SANTA CRUZ

Campus Planning



Sustainability
Office UNIVERSITY OF CALIFORNIA
SANTA CRUZ

Carbon Fund Grant

Rain Harvesting to Offset Production of City Water

Purpose: IDEASS intern Kyle Davis will be working to install rain harvesting systems at homes in the Santa Cruz area. By harvesting and storing rainwater on-site, households who volunteer can help reduce emissions from pumping, cleaning, and distributing water. In turn this water will be used to irrigate gardens and flush toilets while reducing their water bill.

The Rain Harvesting Project will increase awareness of California's water issues and sustainable living developments, while decreasing carbon emissions, local stream and beach pollution, and chemical use at Santa Cruz County's water districts.



Impact Designs: Engineering And Sustainability through Student Service

UNIVERSITY OF CALIFORNIA
SANTA CRUZ

Campus Planning



Sustainability
Office UNIVERSITY OF CALIFORNIA
SANTA CRUZ

Carbon Fund Grant

Take Back the Tap

Project Leader: Gabi Kirk, in collaboration with the Sustainability Office and the UCSC Dining Services.

Carbon Fund Grant: \$12,000

Estimated Lifetime GHG Reduction: 151.33 MTCO₂e

Project Description: "Take Back The Tap" is a pilot program to turn some of UCSC's drinking fountains into reusable bottle refill stations with pushback spigots similar to the ones used in fast-food restaurant soda fountains. The grant funds the installation of refill stations at the UCSC Office of Physical Education, Recreation and Sports (OPERS) and several other places on campus. The project will also work as a community based-social marketing campaign.

Current Status: In Spring 2012, six retrofits have been installed and starting in June 2012, an additional six will be put in making it easier for students to fill their reusable bottles. The project leaders have developed relationships with campus vendors to develop ways to remove bottled water from their businesses The OPERS facility and the Porter Slug Cafe is now water bottle free! The project is in the final stages of removing bottled water from the Wellness Center.



Take Back The Tap at Porter Slug Cafe Winter 2012

UNIVERSITY OF CALIFORNIA
SANTA CRUZ

Campus Planning

Student Environmental Center




GET A GRIP & DROP YOUR OWN DRIP!
<http://dropyourowndrip.wordpress.com/>

Program to educate on-campus residents and encourage water conservation

Developed a campus-wide water-use reduction **competition** and challenged each resident to use no more than the target-level of daily water-use of 20 gallons per person.

UNIVERSITY OF CALIFORNIA
SANTA CRUZ

Campus Planning



DROP YOUR OWN DRIP:
Water Conservation at UCSC
Email: dvod.ucsc@gmail.com

MOCK WATER STATEMENT

PLEASE NOTE THE FOLLOWING:

Visit our website for more information:
dropyourowndrip.wordpress.com

Account Summary:

College:	College 8
Apartment Number:	CA01-202
Number of Residents:	5
Service Period:	February
Service Days:	30

Billing Information:

(Note: ICCF=100 Cubic Feet or 748 gallons)

Water - Ready to Serve 5/8"	\$17.41
Water Consumption Charges (0.72CCF): 3.22CCF @ \$4.60	\$14.88
Utility Tax @ 8.5%	\$2.75
TOTAL AMOUNT DUE:	\$35.04

Water Use Summary:

Meter Number: 8001

Average Water Use this Period: 92.79 gal/day
Average Water Use Per Resident: 18.56 gal/day

TARGET WATER USE: 15 gal/day per resident

DROP YOUR OWN DRIP is a fraction of the Education for Sustainable Living Program, and works in conjunction with Green Campus. DYDD receives grant funding from the Campus Sustainability Council (CSC).

DROP YOUR OWN DRIP

Mock Water Statement

Produced simulated monthly water statements for on-campus apartment residents

Sent statements out via email

Provided education to all on-campus apartment residents about their monthly water-use while encouraging conservation

Provided prizes for lowest water users

Tips to reduce your current water consumption:

1. Stay off the bottle. Producing a bottle of water uses 1.85 gallons of water.
2. Get low with the flow. Make sure your fixtures are low-flow.
3. Super-soak your dishes by filling a small bucket or large bowl with soapy water to wash your dishes.
4. Rack 'em responsibly: Rinse, Tap Off, Rack, Repeat.
5. Avoid using your toilet as a waste bin.

UNIVERSITY OF CALIFORNIA
SANTA CRUZ

Campus Planning

UC Santa Cruz Residential Awareness and Education Programs

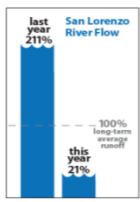
A water conservation education campaign for the campus residential areas began in 2008 as part of an overall "Think Green" effort.

A water conservation campaign worked with Residential Life and Housing-Facilities Staff to raise awareness for water conservation, including give-aways like buttons, banners, magnets, and clings

After move-in, interns offer dorm room audits that help residents reduce energy and water usage

Please Conserve Water

It's been a very dry year in Santa Cruz and other parts of California. Here at UCSC, we have over 7,000 students living on campus and about 15,000 students total. Together, the water we conserve has a positive impact on the available water supply.




San Lorenzo River Flow

last year 21%

this year 21%

100% long-term average flow



CONSERVATION STARTS HERE
UC SANTA CRUZ

UNIVERSITY OF CALIFORNIA
SANTA CRUZ

Campus Planning

UC Santa Cruz Continuing Sustainable Programs

UC Santa Cruz recognition for "going green."

The U.S. Green Building Council has awarded a prestigious "Gold" sustainability and innovation prize to the campus in recognition of the newly retrofitted and expanded Cowell Student Health Center – which includes **1/8th gallon flush urinals and duel-flush toilets**

US News and World Report: 10 Eco-Friendly College Campuses

At UC-Santa Cruz, trayless dining program saves an estimated 30,000 gallons of water per month.



UNIVERSITY OF CALIFORNIA
SANTA CRUZ

Campus Planning

Thank You



UNIVERSITY OF CALIFORNIA
SANTA CRUZ

Campus Planning