

2014 Drought: Water Supply Situation and Drought Response Plan

City of Santa Cruz Water Department June 17, 2014



Water Service Area

Areas served:

- Santa Cruz
- County
- Capitola

Population:

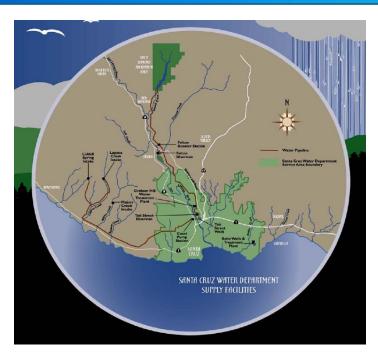
• 94,000

Governing body:

City Council



Water Sources



Live Oak
Wells
Loch
Lomond
Reservoir
17%

San
Lorenzo
River
47%

North Coast Streams



San Lorenzo River



Loch Lomond Reservoir



Live Oak Wells



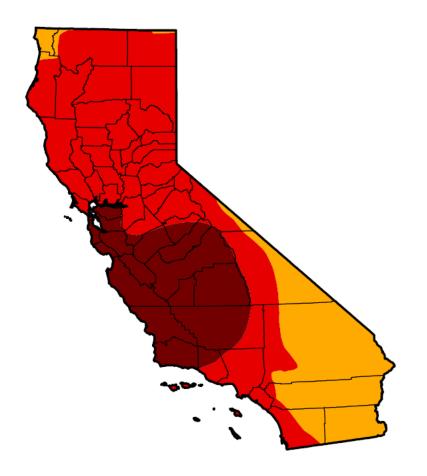
Water Production

- Average 9-10 million gallons per day (mgd)
- 6-7 mgd in winter
- 12-13 mgd in summer
- Entirely local sources from winter rains
- No water is imported to the City from outside the County or from another agency
- GPCD = 97 gallons/capita/day

Statewide Drought Status

U.S. Drought Monitor

California



June 10, 2014

(Released Thursday, Jun. 12, 2014) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	100.00	100.00	76.68	24.77
Last Week 6/3/2014	0.00	100.00	100.00	100.00	76.68	24.77
3 Months Ago 3/11/2014	0.01	99.99	94.56	90.81	65.89	22.37
Start of Calendar Year 12/31/2013	2.61	97.39	94.25	87.53	27.59	0.00
Start of Water Year 10/1/2013	2.63	97.37	95.95	84.12	11.36	0.00
One Year Ago 6/11/2013	0.00	100.00	98.16	53.54	0.00	0.00

Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

Matthew Rosencrans CPC/NCEP/NWS/NOAA



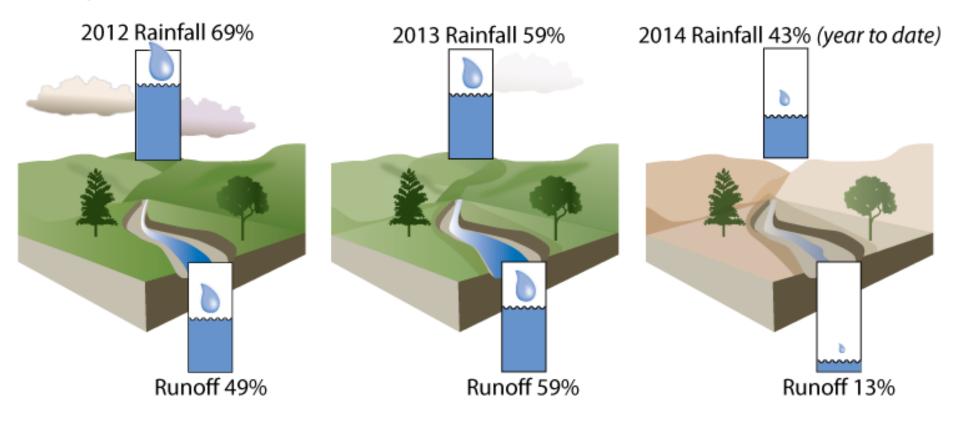




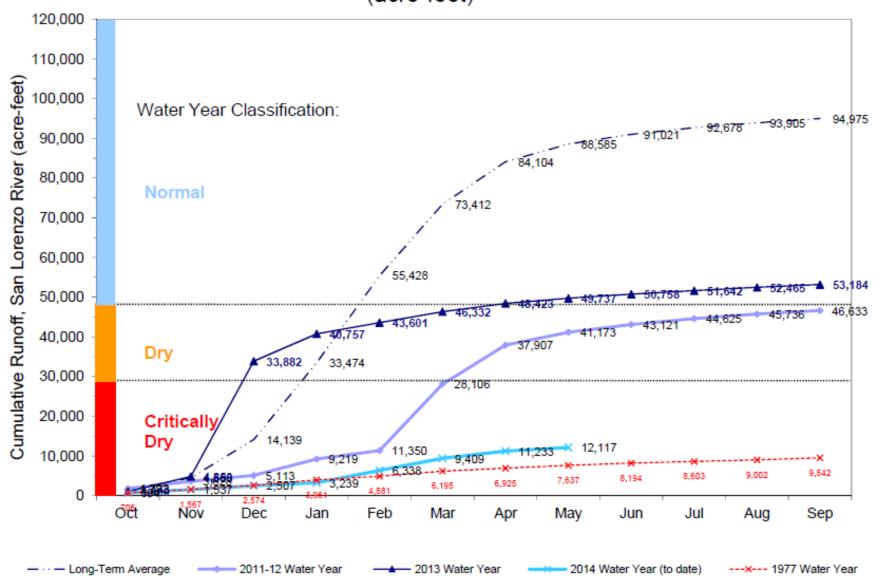


Local Water Conditions

3 Dry Years



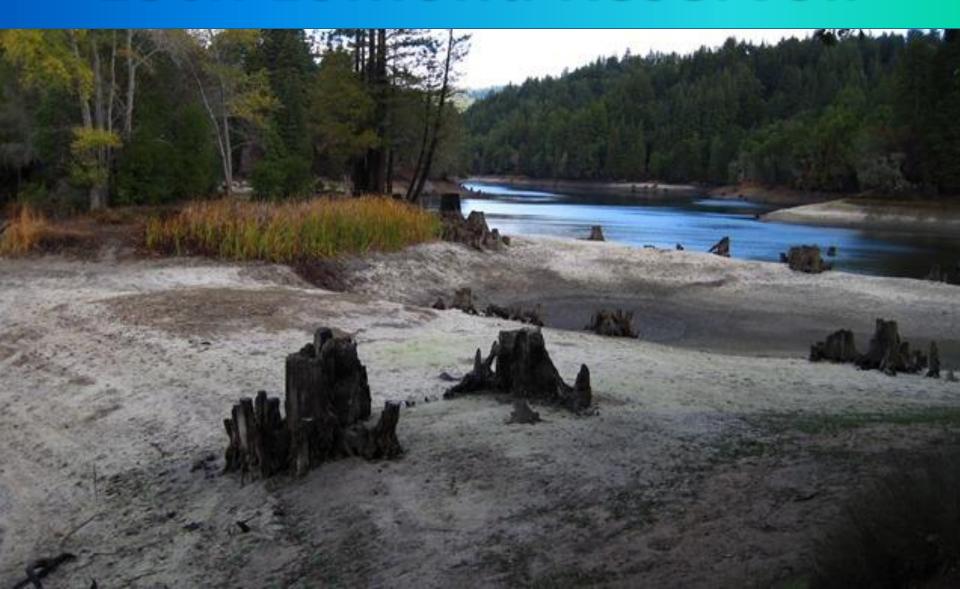
Cumulative Runoff and Water Year Classification, 6/01/14 (acre-feet)



Loch Lomond Reservoir

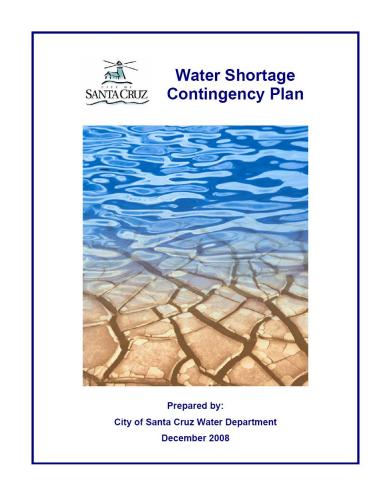


Loch Lomond Reservoir



Water Shortage Contingency Plan

- Required of urban water suppliers by State of California
- Must address water shortages of up to 50 percent
- Water Department: comprehensive update in 2009



Water Shortage Contingency Plan

Stage	Magnitude of Water Shortage	Stage Title
1	0-5%	Water Shortage Alert
2	5-15%	Water Shortage Warning
3	15-25%	Water Shortage Emergency
4	25-35%	Severe Water Shortage Emergency
5	35-50%	Critical Water Shortage Emergency

Priority	Type of Water Use
Highest	Health and safety: Indoor domestic use for personal care
Next highest	Business (protect jobs/economy)
Lowest	Landscape, yard, or garden irrigation and other outdoor uses

City Council Action



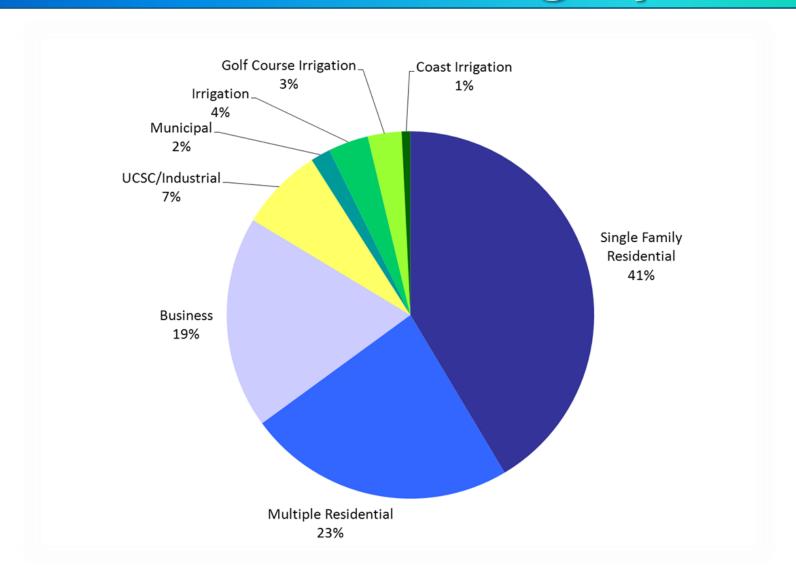
Timeline:

- 2012 and 2013: Stage 1 Water Shortage Alert declared
- October 2013: Stage 1 Alert extended indefinitely
- February 2014: Water Shortage Emergency declared – Stage 3
- May 2014: Regulations became effective

Key Water Use Regulations in Stage 3

- 1. Residential accounts: **Water rationing** for single family and multi-family accounts
- 2. Commercial customers: Mandatory facility audits, conservation plans, signage, irrigation restrictions
- 3. Large irrigation accounts: **Water rationing** based on landscape water budgets
- 4. Outdoor water **restrictions** for <u>all</u> customers

Water Use by Customer Category



Single Family Residential Allotments

- Basic monthly allotment of 10 CCF
- Accommodates ordinary indoor needs for a family of up to four
- 249 gallons/day or 62 gallons/person/day
- Each additional permanent resident: +2 CCF
- Penalty for excessive use:
 - \$25 50 per CCF

Multi-Family Residential Allotments

- 2,700+ accounts, 17,000+ households
- 110+ Homeowner associations
- Allotment varies depending on number
 of dwelling units at the account
- Alternative allotment methods
- Penalty for excessive use:
 - \$25 50 per HCF

Multi-Family Residential Allotments

Dwelling Units	Allotment * (CCF/dwelling unit/month)
2-4	7
5-20	6
Over 20	5

* Subtract 1 CCF for properties with separate irrigation accounts

Utility Bill Changes



SANTA CRUZ MUNICIPAL UTILITIES

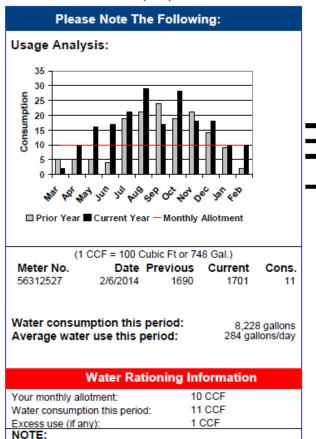
212 Locust Street, Suite D, Santa Cruz, CA 95060 Customer Service: (831) 420-5220 | www.cityofsantacruz.com

ACCOUNT NUMBER:	007-01190-003
SERVICE ADDRESS:	
SERVICE PERIOD:	1/8/2014 - 2/5/2014
SERVICE DAYS:	29
ACCOUNT TYPE:	SINGLE FAMILY DWELLING (02)
# OF UNITS:	
REFUSE PICKUP DAY:	FRIDAY
BILLING ADDRESS:	
	_

Past Due:	373.78	
Payment - thank you	-373.78	
PAST DUE BALANCE - DUE NOW:	0.00	
- Current Charges -		
Water - Ready to Serve 5/8"	17.41	
Water Consumption Charges (11 CCF):		
4 CCF @ 1.57	6.28	
5 CCF @ 4.00	20.00	
2 CCF @ 5.14	10.28	
Excessive Use Penalties		
1 CCF @ \$25.00	25.00	
Refuse - 68 Gallon Cart (1)	55.84	
Sewer - Single Family	40.50	
Utility Tax @8.5%:	14.90	
Franchise Tax - Water 3%, Sewer 3%, Refuse 12%	10.29	

UTILITY BILL

Total is due upon presentation



Exceptions

Increased allocation may be granted where there is a documented need due to the following circumstances:

- Health
- Safety
- Sanitation
- Fire protection

Large Landscape Accounts

- Monthly allocation varies based on landscape water budget
- 1/3 of normal use
- Penalty for excessive use: \$25-50 per CCF

Landscape Water Use Report

February 2014 SiteID: SC-01t

Prepared For:

Site Name: CityHall Main Contact: Meta Rhodeos

Landscape Firm:

Other Contacts: Mia Duquet. Tom Kemp. Mauro Garcia

Acct# and Service Address: 028-00334-011: 809 CENTER ST

028-00365-012: 0 CENTER & LOCUST 028-00375-011: 0 CHURCH ST

Site Description:

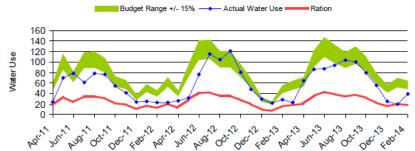
Measurement Method: View Site Map Measurement Date: 8/5/2013 Irrigated Turf Area (FT2) 10.254 Irrigated Other Area (FT2) 14.079 Pool/Pond Area (FT2): 0 Indoor Water Ccf/Bill: 22

Over



CITY OF SANTA CRUZ City Hall 101-40-66-4110-52201 809 CENTER ST RM 101 SANTA CRUZ CA 95060-3826

Water Use History



Read Date Ccf 2014 Cumulative Excess Water Use Penalties 2/10/2014 39 19 1.93 1/10/2014 20 21 0% 2 19 Up to 10% Over Ration Amount 12/10/2013 1.53 11/8/2013 2.64 Over 10% of Ration Amount 17 \$855 10/9/2013 4.19 **Total Penalty** 9/9/2013 100 62% 5.17 8/9/2013 35 68 66% 4.64 103 7/9/2013 5.31 6/10/2013 6.02 5/8/2013 86 38 4.77 4/10/2013 64 21 2.31

Due to the abnormally dry water conditions, the Water Department requests all irrigation controllers be shut off for the winter season. For more information visit www.cityofsantacruz.com/waterrestrictions or call 831-420-5230

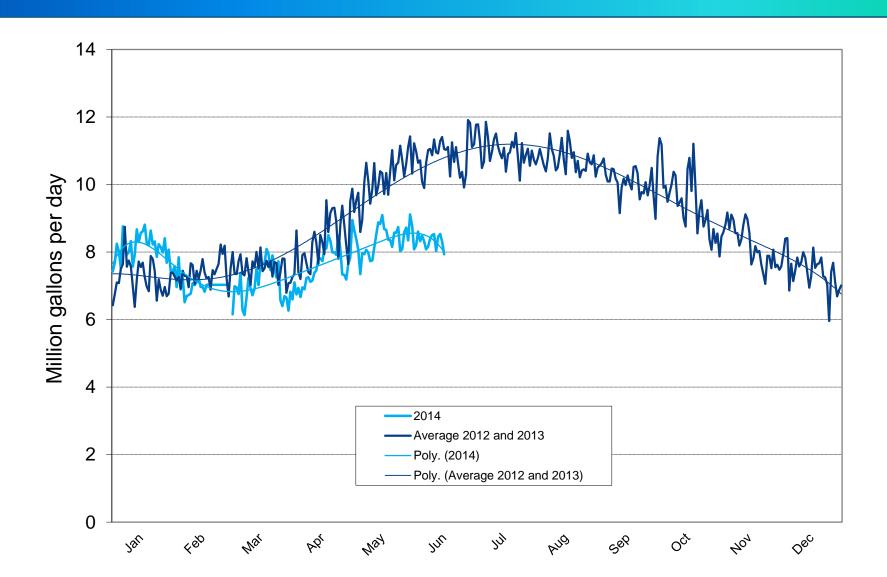
Outdoor Water Use Restrictions

- No landscape watering 10 am 5 pm
- Waste of water strictly prohibited
- Hose nozzles required
- No washing down hard/paved surfaces
- Washing buildings/structures prohibited
- No initial filling or draining/filling swimming pools
 & outdoor spas
- Plumbing leaks must be repaired in 24 hours
- Penalties: after warning; \$100 up to \$500

Overall Water Management Objectives

- Monthly water production and consumption goals – 20% less than 2012/13
- Monthly & end of season reservoir storage goals – At or above 45% on October 31
- Monthly & end of season groundwater elevation goals
- Fundamental Goal: Managing 2014 to ensure adequate carryover storage is available in 2015 in case drought continues

Tracking Water Production



Loch Lomond Reservoir



Temporary Urgency Change Petition

- Approved by SWRCB February 2014
- Reduced bypass flows
- Estimated to save ~ 100 million gallons in storage
- City to report back in July