



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:

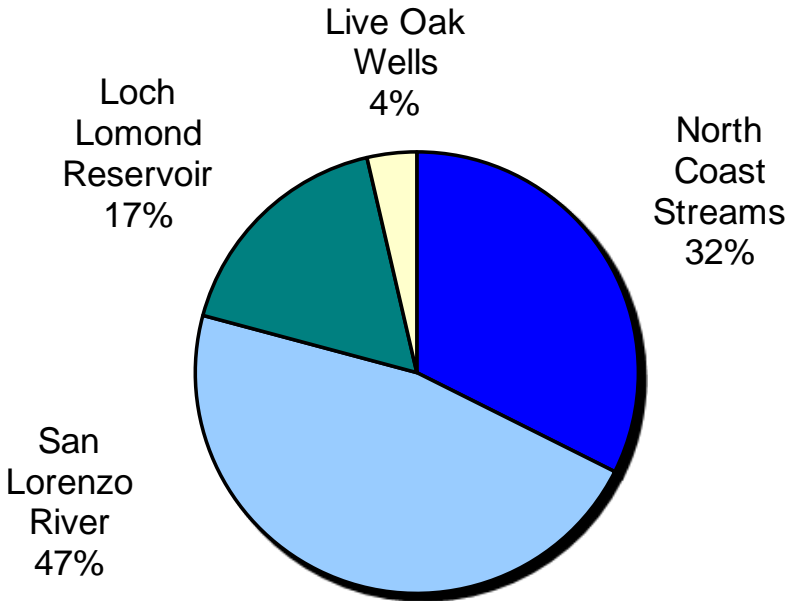
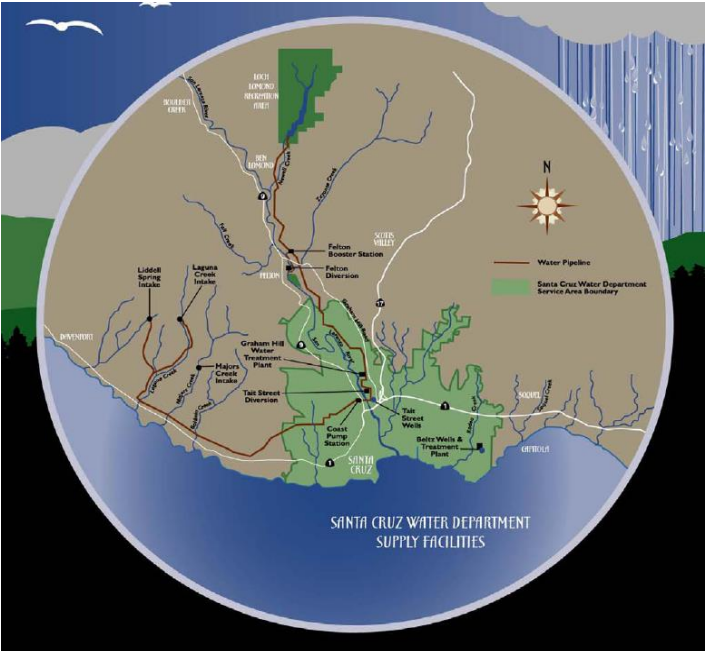
- 94,000

Governing body:

- City Council



Water Sources



North Coast Streams

San Lorenzo River

Loch Lomond Reservoir

Live Oak Wells



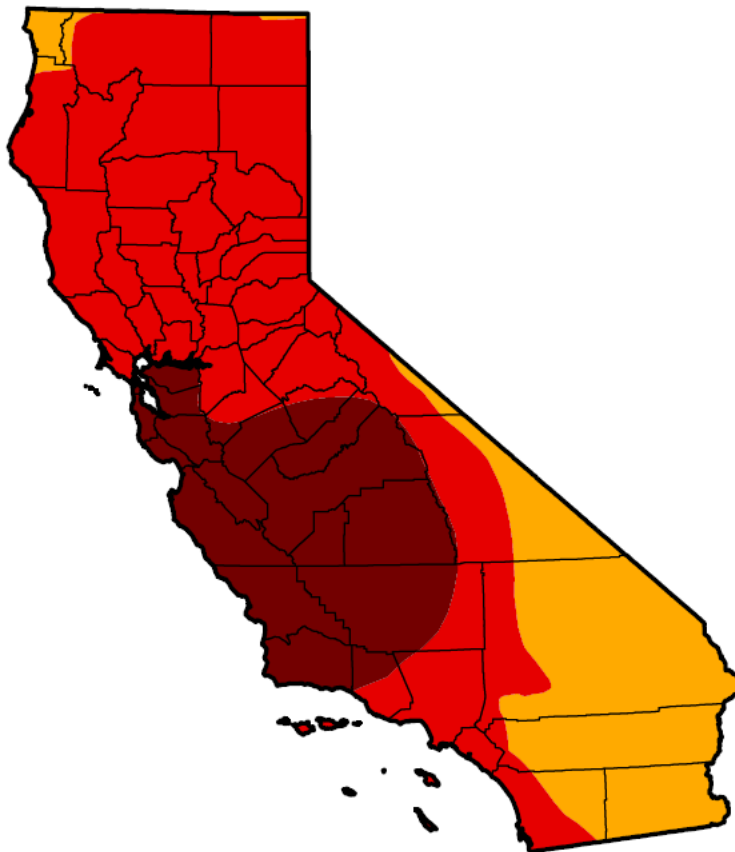
Water Production

- 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.

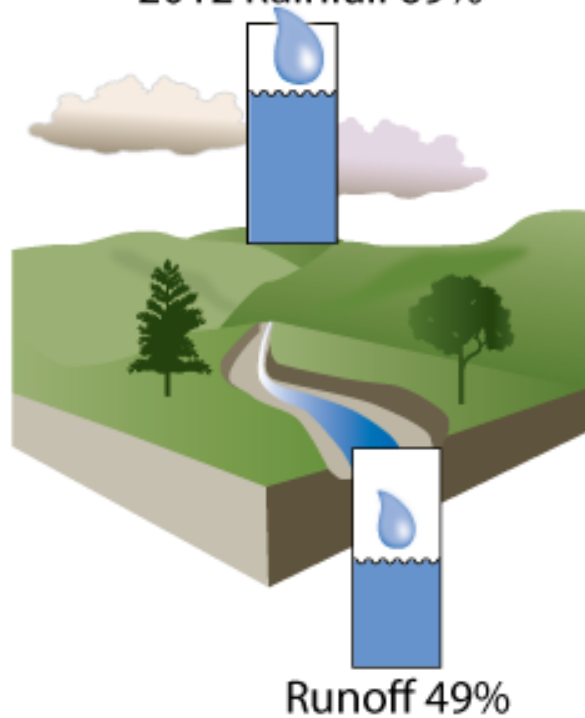
Author:
Matthew Rosencrans
CPC/NCEP/NWS/NOAA



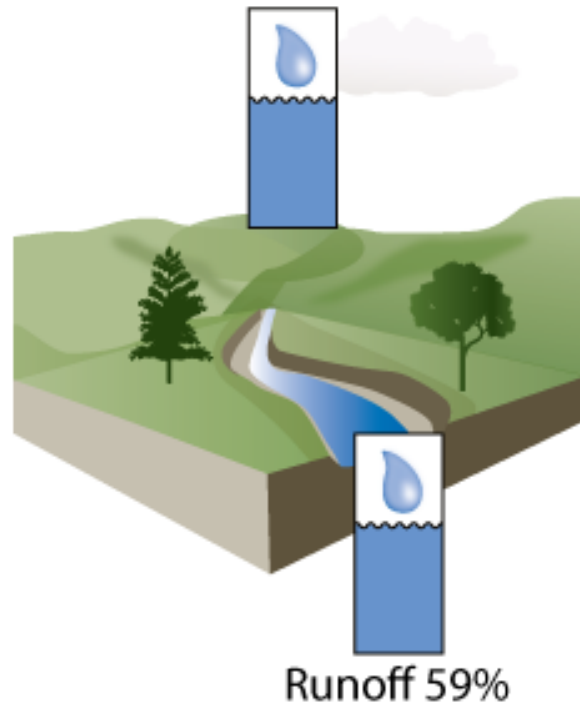
Local Water Conditions

3 Dry Years

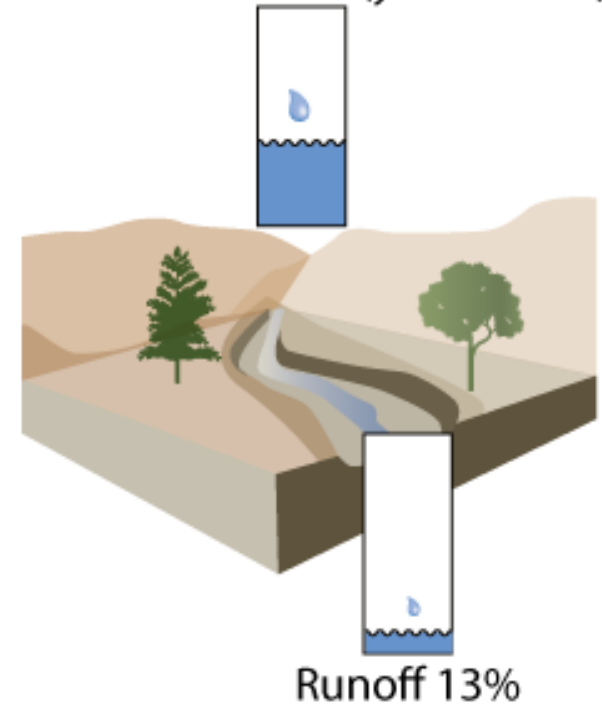
2012 Rainfall 69%



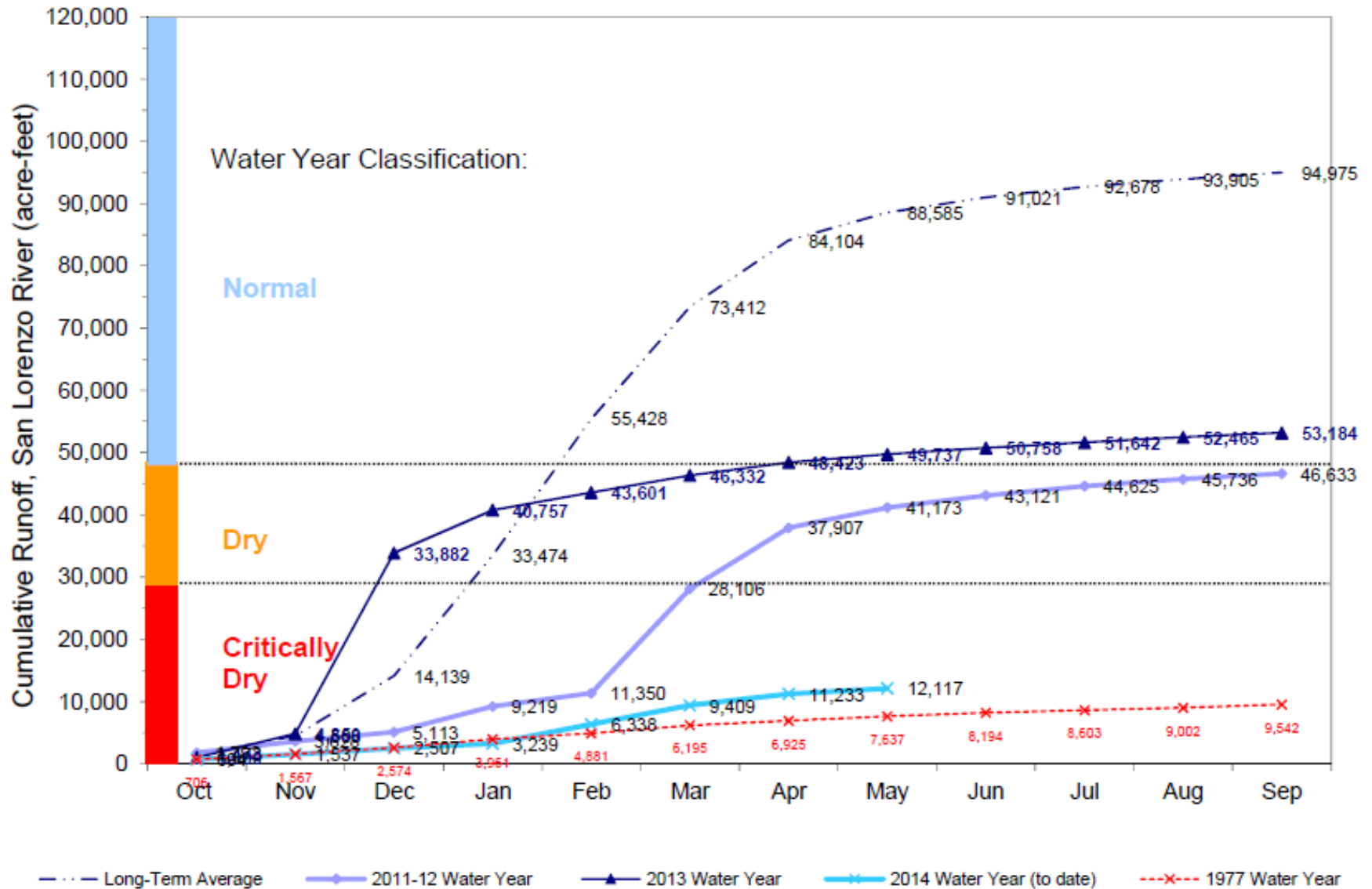
2013 Rainfall 59%



2014 Rainfall 43% (year to date)



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



Loch Lomond Reservoir

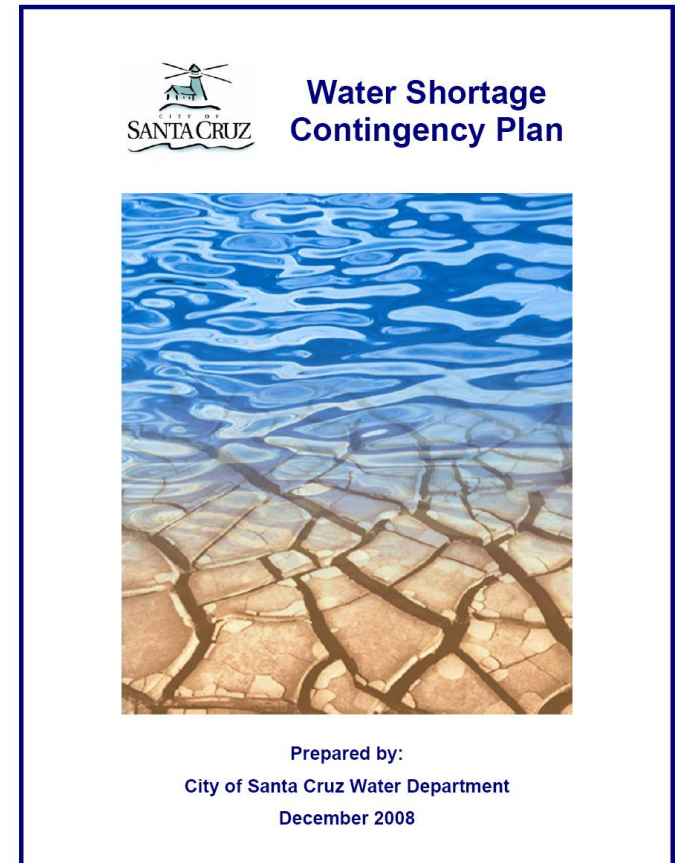


Loch Lomond Reservoir



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

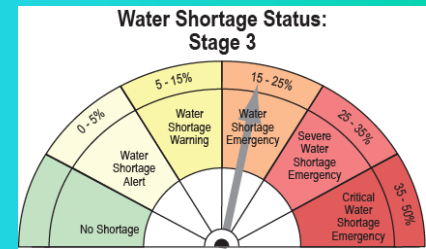


Water Shortage Contingency Plan

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



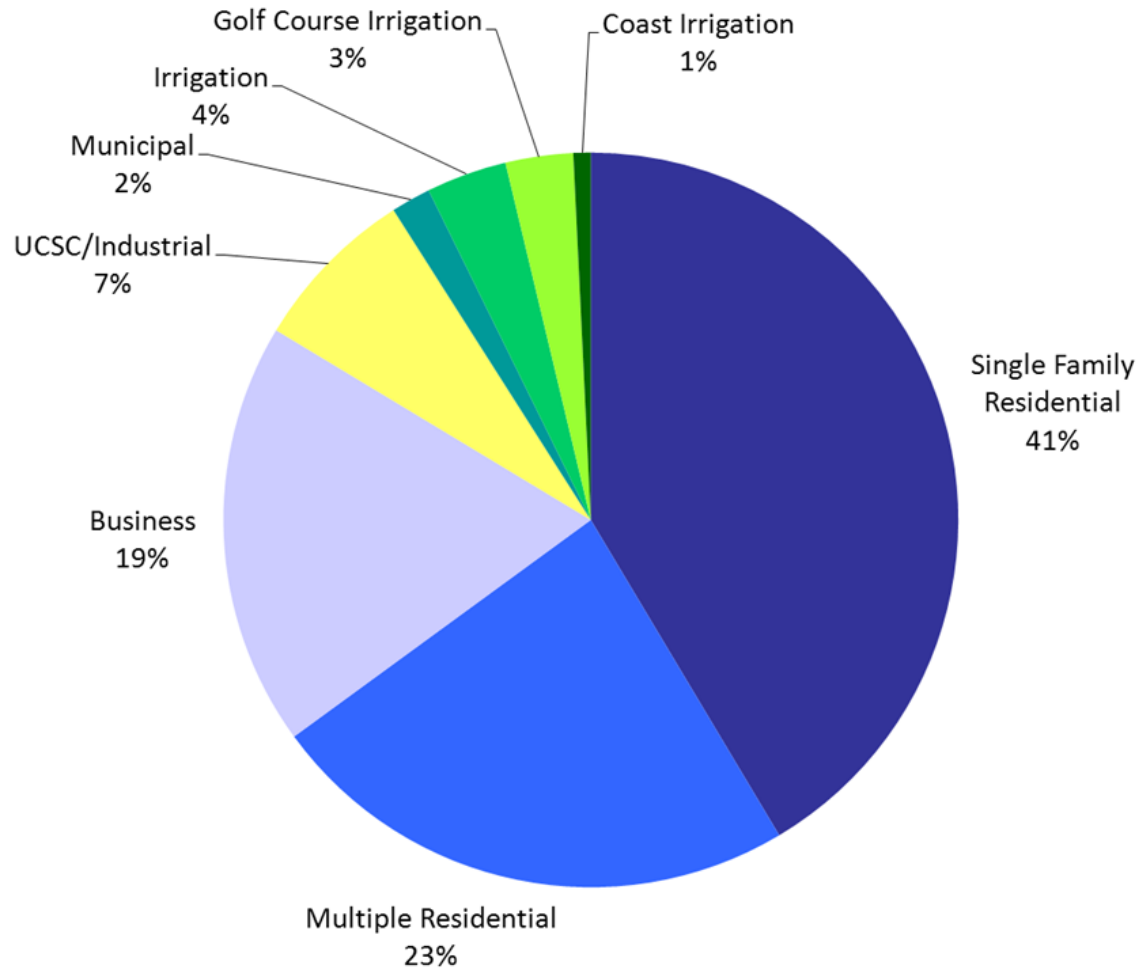
Timeline:

- 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 all 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:	[REDACTED]
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:	[REDACTED]

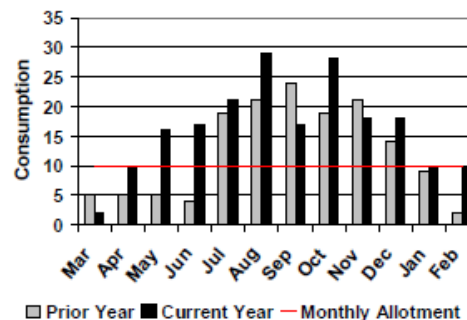
Past Due:	373.78
Payment - thank you	-373.78
PAST DUE BALANCE - DUE NOW:	0.00
- Current Charges -	
Water - Ready to Serve 5/8"	17.41
Water Consumption Charges (11 CCF):	
4 CCF @ 1.57	6.28
5 CCF @ 4.00	20.00
2 CCF @ 5.14	10.28
Excessive Use Penalties	
1 CCF @ \$25.00	25.00
Refuse - 68 Gallon Cart (1)	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

Please Note The Following:

Usage Analysis:



(1 CCF = 100 Cubic Ft or 748 Gal.)

Meter No.	Date Previous	Current	Cons.
56312527	2/6/2014	1690	1701

Water consumption this period: 8,228 gallons
Average water use this period: 284 gallons/day

Water Rationing Information

Your monthly allotment:	10 CCF
Water consumption this period:	11 CCF
Excess use (if any):	1 CCF

NOTE:

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

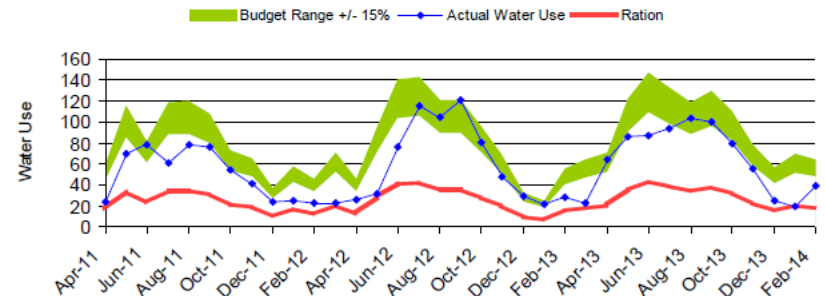
Site Description:

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



CITY OF SANTA CRUZ
City Hall 101-40-88-4110-52201
809 CENTER ST RM 101
SANTA CRUZ CA 95060-3828

Water Use History



	Read Date	Actual Water Ccf	Ration Water Ccf	Over Ration Ccf	Over Ration %	Weather ETo-Rain Inches
2014 Cumulative Excess Water Use Penalties						
		Ccf	\$			
Up to 10% Over Ration Amount		2	\$48			
Over 10% of Ration Amount		17	\$855			
Total Penalty		19	\$903			
	2/10/2014	39	19	20	51%	1.93
	1/10/2014	20	21	0	0%	2.19
	12/10/2013	25	17	8	33%	1.53
	11/8/2013	56	23	33	58%	2.64
	10/9/2013	80	33	47	59%	4.19
	9/9/2013	100	38	62	62%	5.17
	8/9/2013	103	35	68	66%	4.64
	7/9/2013	94	39	55	58%	5.31
	6/10/2013	87	43	44	50%	6.02
	5/8/2013	86	36	50	58%	4.77
	4/10/2013	64	21	43	67%	2.31

Messages

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.

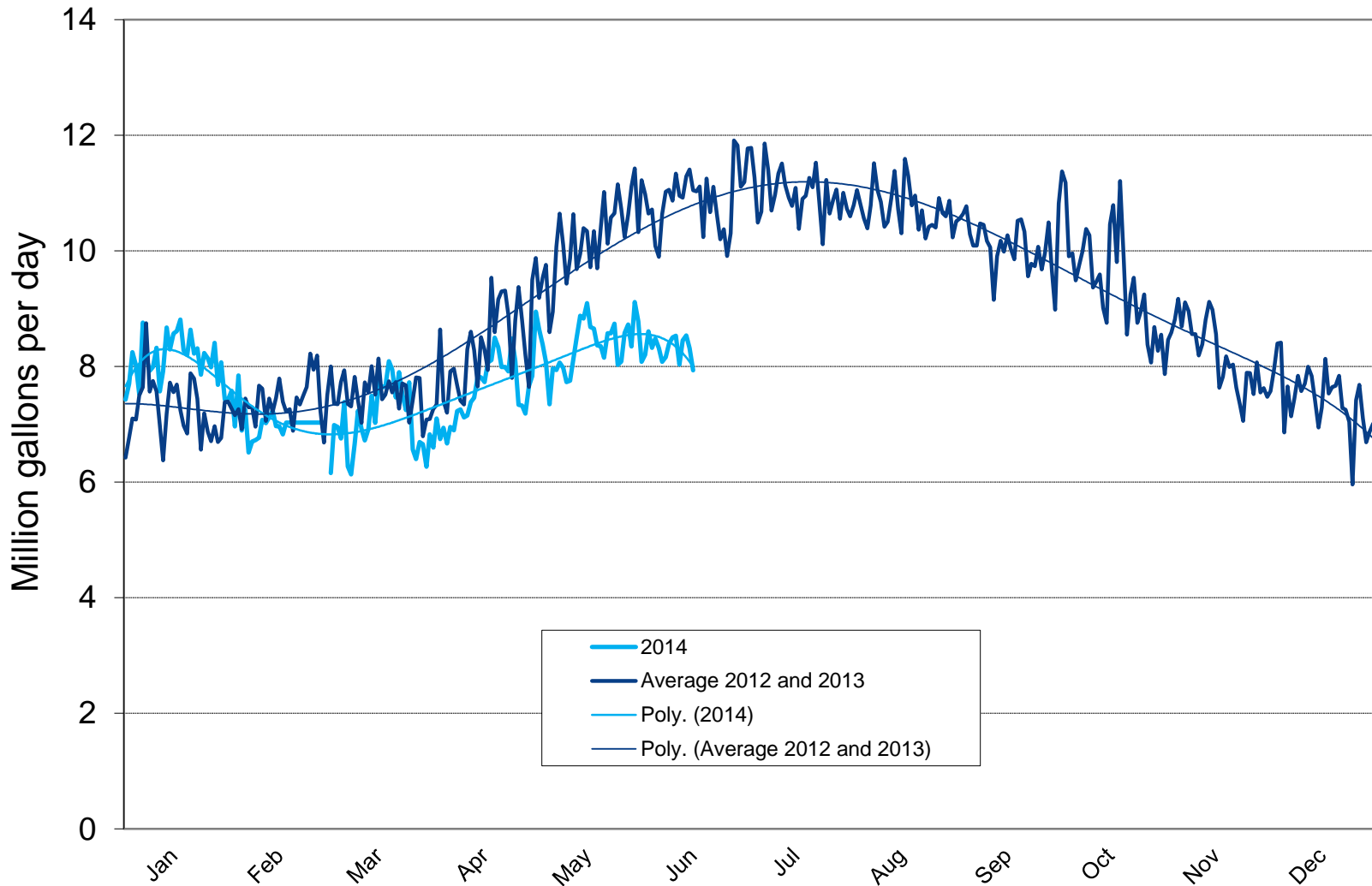
Outdoor Water Use Restrictions

- 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**

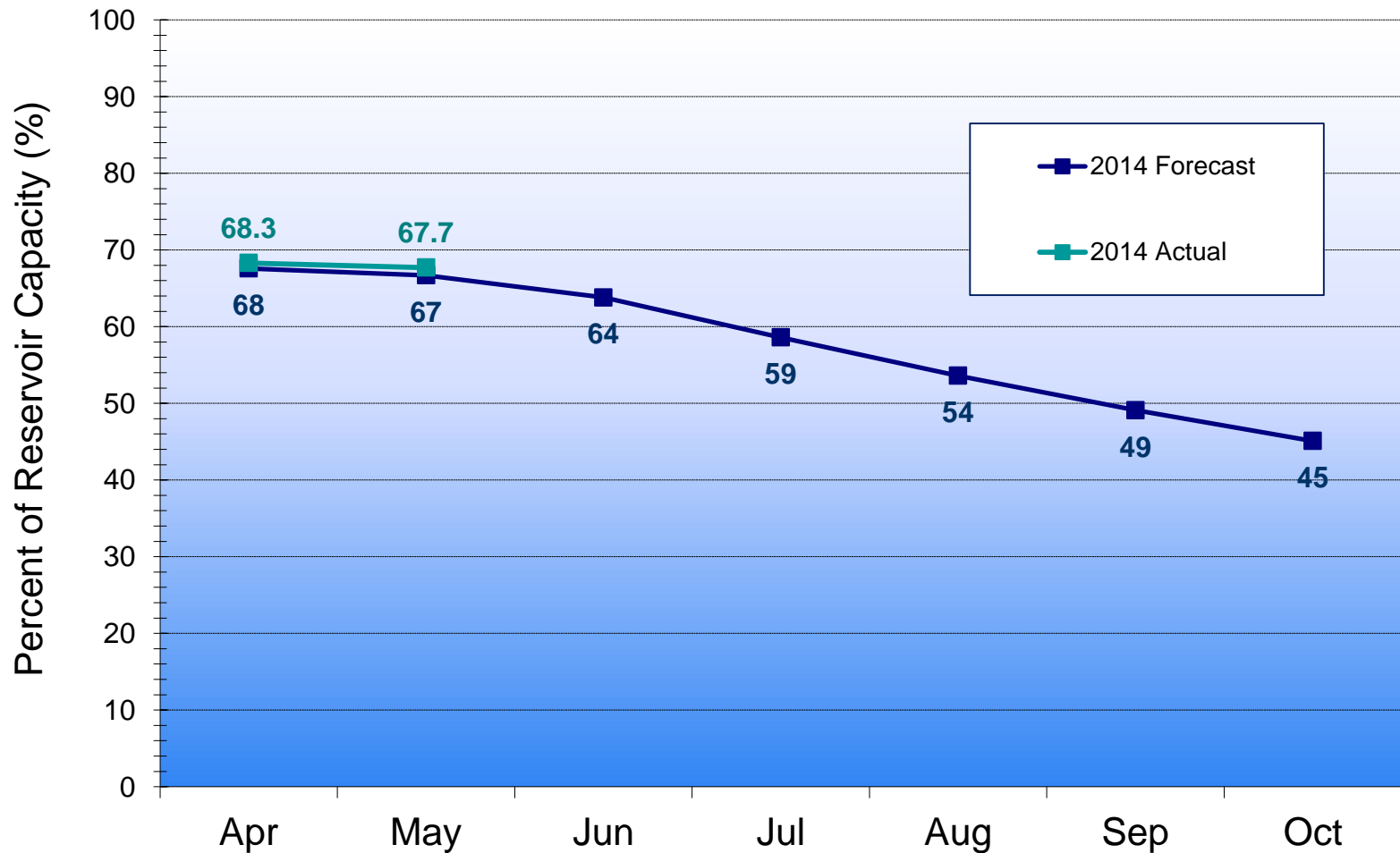
Overall Water Management Objectives

- 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**