

An aerial photograph of a city, likely Los Angeles, showing a dense residential area with houses and trees. In the foreground, there is a large facility with many large, white, cylindrical water storage tanks arranged in rows. The tanks have flat tops with some equipment on them. A semi-transparent white box is overlaid on the image, containing the title and subtitle text.

Water Resources

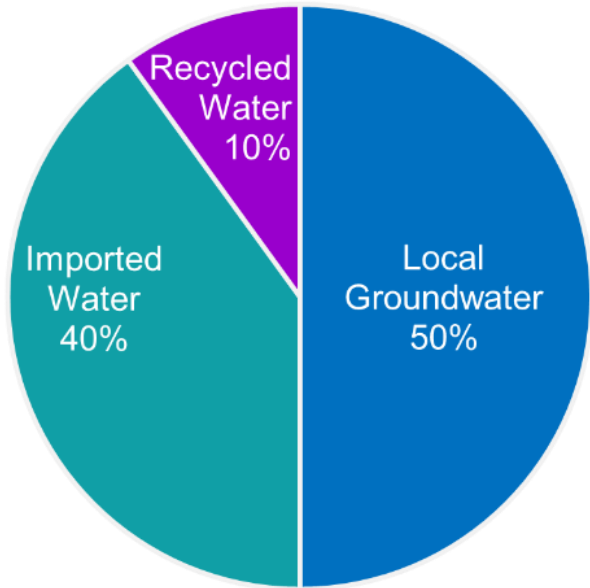
Sustainable City Commission- 2021 Update



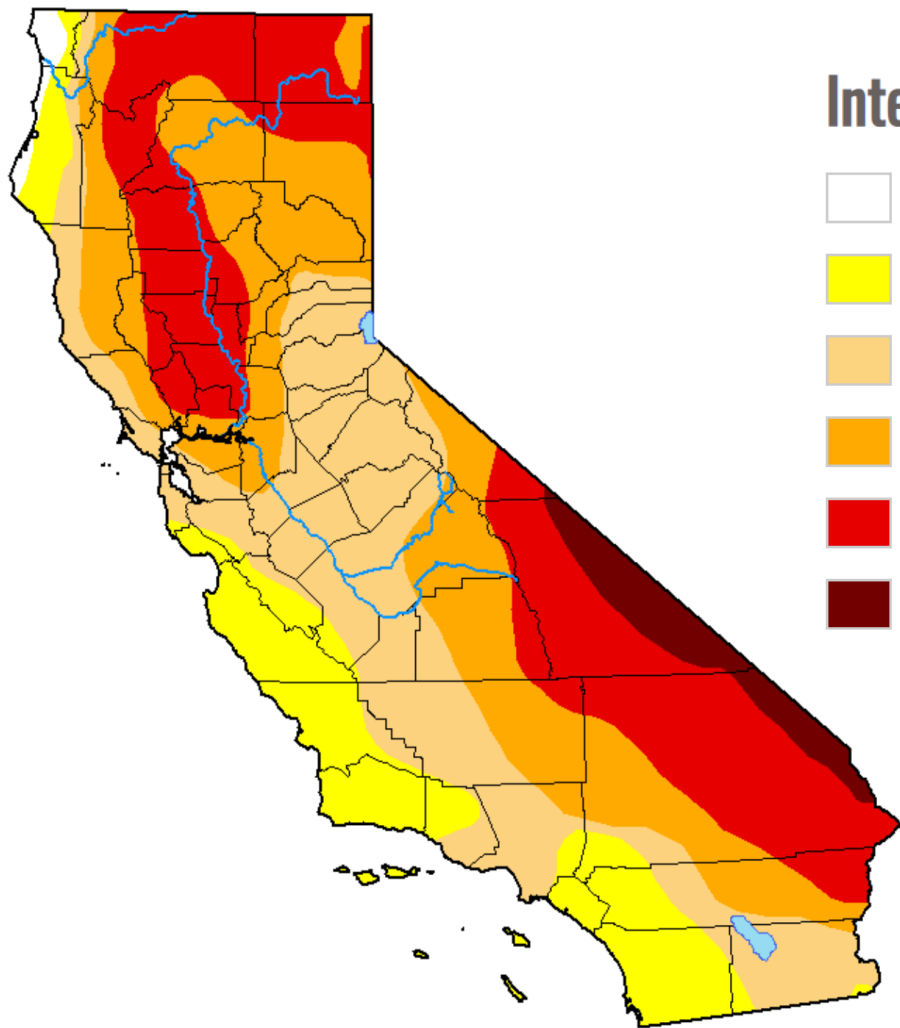
Agenda

1. Where our water comes from
2. Current conditions
3. Planning for the future
4. Promoting efficient water use

Where Our Water Comes From



Current Conditions



Intensity:

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)

Category	Impact
D0	Soil is dry; irrigation delivery begins early
	Dryland crop germination is stunted
	Active fire season begins
	Winter resort visitation is low; snowpack is minimal
D1	Dryland pasture growth is stunted; producers give supplemental feed to cattle
	Landscaping and gardens need irrigation earlier; wildlife patterns begin to change
	Stock ponds and creeks are lower than usual
D2	Grazing land is inadequate
	Producers increase water efficiency methods and drought-resistant crops
	Fire season is longer, with high burn intensity, dry fuels, and large fire spatial extent; more fire crews are on staff
	Wine country tourism increases; lake- and river-based tourism declines; boat ramps close
	Trees are stressed; plants increase reproductive mechanisms; wildlife diseases increase
	Water temperature increases; programs to divert water to protect fish begin
D3	River flows decrease; reservoir levels are low and banks are exposed
	Livestock need expensive supplemental feed, cattle and horses are sold; little pasture remains, producers find it difficult to maintain organic meat requirements
	Fruit trees bud early; producers begin irrigating in the winter
	Federal water is not adequate to meet irrigation contracts; extracting supplemental groundwater is expensive
	Dairy operations close
	Marijuana growers illegally tap water out of rivers
	Fire season lasts year-round; fires occur in typically wet parts of state; burn bans are implemented
	Ski and rafting business is low, mountain communities suffer
	Orchard removal and well drilling company business increase; panning for gold increases
	Low river levels impede fish migration and cause lower survival rates
	Wildlife encroach on developed areas; little native food and water is available for bears, which hibernate less
	Water sanitation is a concern, reservoir levels drop significantly, surface water is nearly dry, flows are very low; water theft occurs
	Wells and aquifer levels decrease; homeowners drill new wells
Water conservation rebate programs increase; water use restrictions are implemented; water transfers increase	
Water is inadequate for agriculture, wildlife, and urban needs; reservoirs are extremely low; hydropower is restricted	

Urban Water Management Plan- Update



2015 Urban Water Management Plan



City of Long Beach Board of Water Commissioners
Frank Martinez, President
Arthur Levine, Vice-President
Robert Shannon, Secretary
Gloria Cordero, Member
Harry Saltzgaver, Member

General Manager, Christopher J. Garner
Director of Planning and Conservation, Matthew P. Lyons
Water Conservation Specialist, Dean Y. Wang

Adopted by the Board of Water Commissioners on June 2, 2016

- Prepared by urban water suppliers every 5 years to support long-term resource planning and water supply sustainability
- Assess the reliability of water sources over a 20-year planning time frame
- Describes demand management measures and water shortage contingency plan
- Discusses the use and planned use of recycled water

Conservation Support Programs



- Launched in 2010
- 3.6 million square feet of turf replaced
- Incentive available for both front (\$3/sf) and backyards (\$2/sf)

Native Parkway Program



Long Beach Water Department Parkway Program

Create a beautiful parkway that supports pollinators and wildlife, and saves you water, time, and money!



Long Beach Water
Exceptional Water · Exceptional Service

- Partnership with the California Native Plant Society
- Voucher based program of pre-designed “kits” of CA Native plants, mulch and stepping stones
- Launched Winter 2020
- 60 parkways converted to date and counting

DIG Pilot Program- DAC



- Direct Install for Low Income and DAC Communities
- Partnership with Conservation Corps of Long Beach
- Funded by CA Coastal Conservancy Climate Ready Grant

DIME Program- Multifamily Efficiency

Welcome To DIME!

Direct Install for Multi-family Efficiency

Long Beach Water, in partnership with your property manager, has switched out some inefficient devices in your home and apartment complex. *Your new, free devices will help save water and energy!* This kit provides you with resources and additional water-saving hacks. After all, sustainability is the Long Beach way of life! This kit provides you with resources, including a 5-minute shower timer and a set of table coasters with water-saving hacks.

YOUR NEW, EFFICIENT DEVICES IN YOUR HOME:



Long Beach Water

- For Multi-family units in DAC areas
- Upgrades of showerheads, toilets, faucet aerators and communal clothes washers
- Minor leak repairs
- Over 800 units retrofitted so far



Certified Blue Program



WHAT IT TAKES TO BE CERTIFIED BLUE:

Most of the devices required by the program are offered for free by Long Beach Water or are eligible for a rebate.

F=free | **R**=rebates available

Requirements:

Required, if applicable*:



Toilets:
1.6 gallons per flush (GPF) or lower
R

Wash down procedures: utilize a pressure washer and/or water broom



Restroom faucets:
0.5 gallon per minute or lower **F**

Ice machine:
Air cooled **R**



Kitchen hand sinks:
0.5 gallon per minute (GPM) or lower **F**

Food steamer:
Connectionless or boilerless **R**



Dishwasher:
Energy Star certified **R**

Dipper well: heated or utilizes non-continuous flow technology



Pre-rinse spray valves: 1.1 gallons per minute (GPM) or lower **F**

* Retrofit required if staff determines payback period of this device is less than 2 years.



Device Rebates

Rebates Offered



Long Beach Water
Exceptional Water · Exceptional Service

Every day
is a chance to
save water.



What Products are Eligible for Rebates?*

	MEASURE	REBATES STARTING AT
	Indoor Fixtures	
	Premium High-Efficiency Toilets (PHETs)	\$80/toilet - 1.06 gallons per flush or less
	High-Efficiency Clothes Washers	\$170/washer
	Landscaping Equipment	
	Smart Irrigation Controllers	\$100/controller for less than one acre \$40/station for areas larger than one acre
	Soil Moisture Sensor Systems	\$100/controller for less than one acre \$40/station for areas larger than one acre
	Rain Barrels	\$35/barrel (max. of 2)
	Rotating Sprinkler Nozzles	\$2/sprinkler nozzle (min. of 30)
	Cisterns (minimum 200 Gallons)	\$250 - \$350/cistern depending on gallon capacity