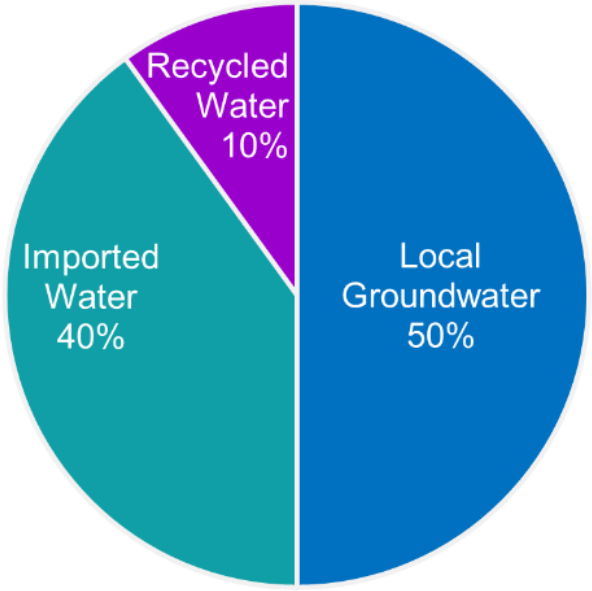
Water Resources

Sustainable City Commission- 2021 Update

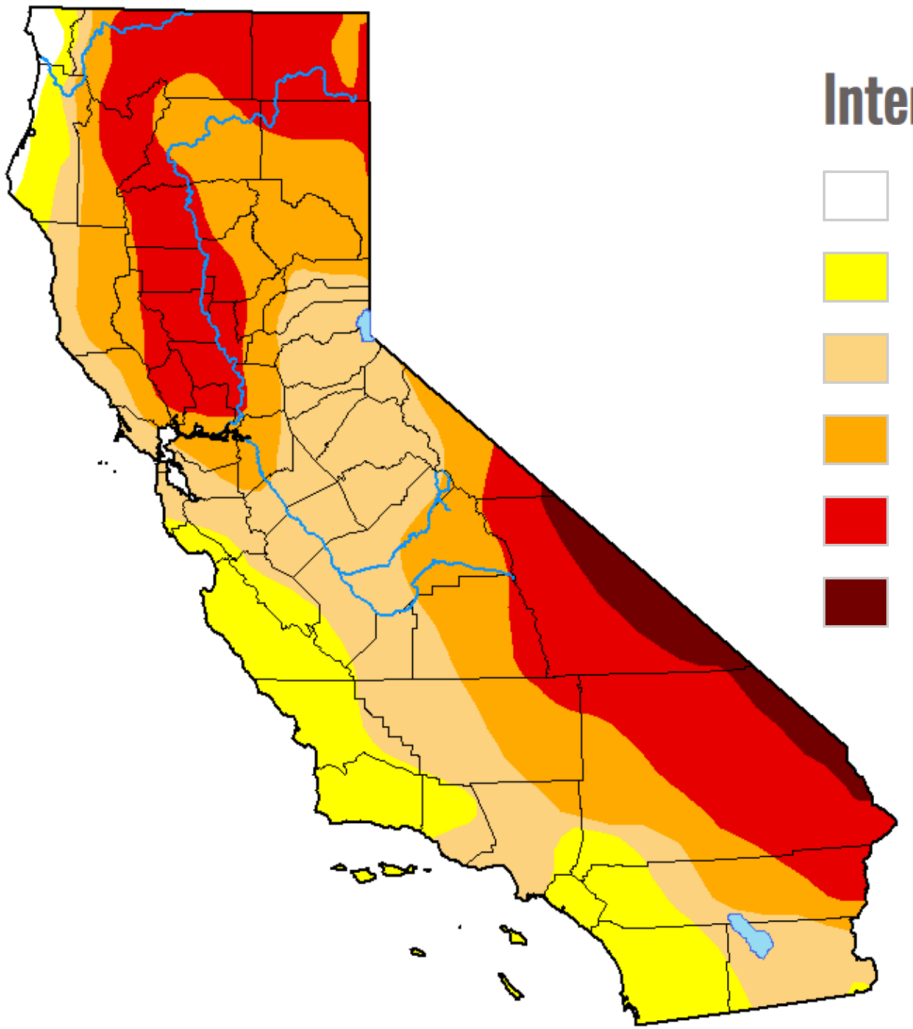
Agenda

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

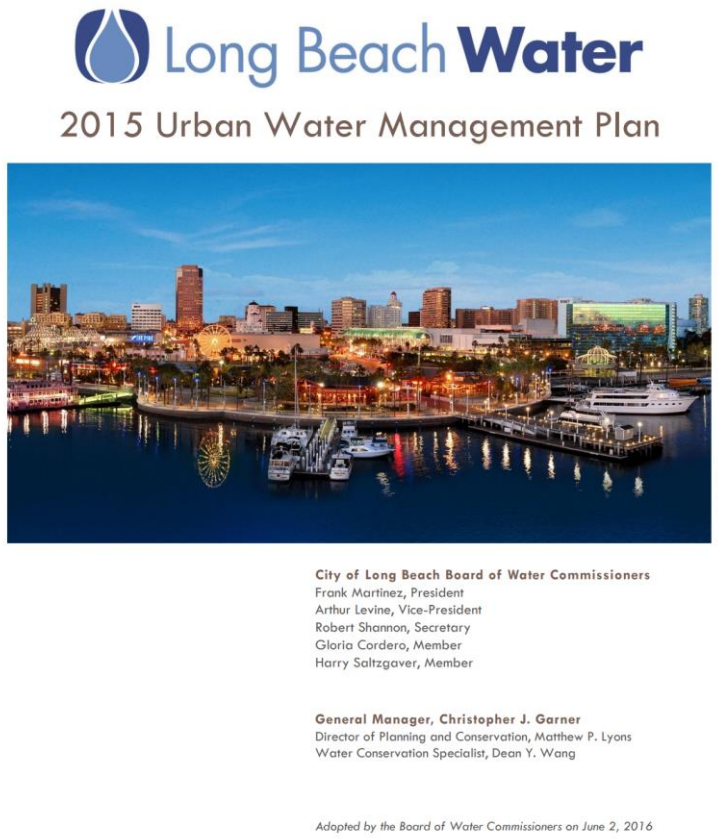


Intensity:

- 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
	River flows decrease; reservoir levels are low and banks are exposed
D3	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



- **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

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

- 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

- 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

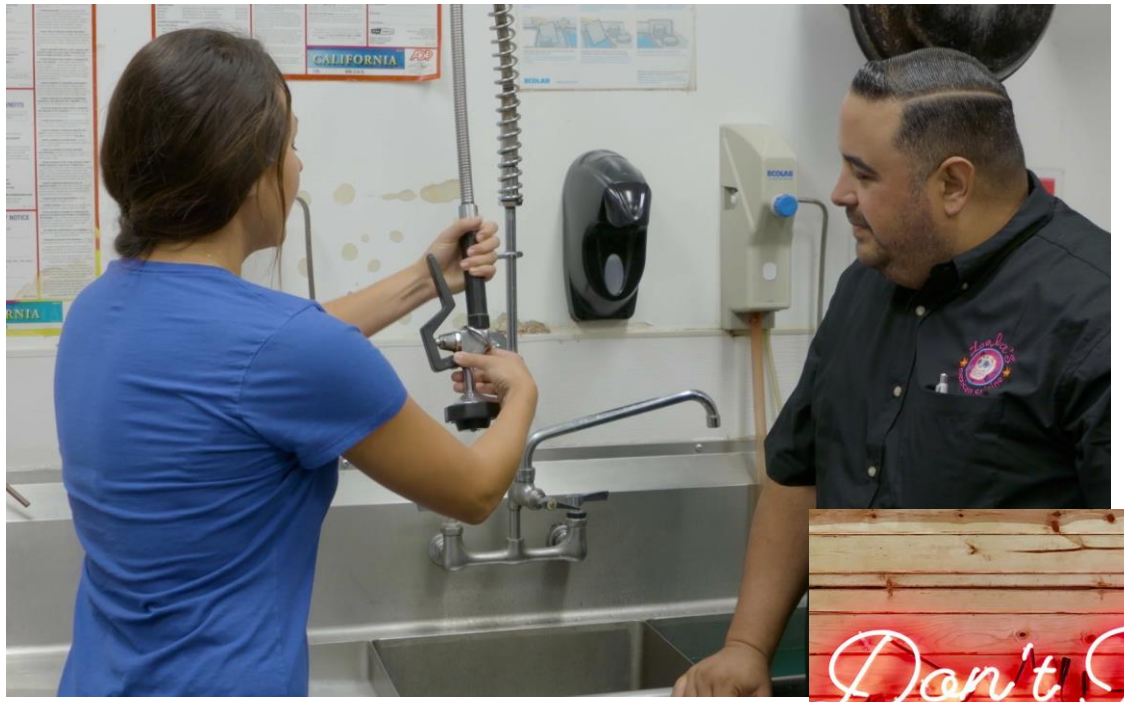
Certified Blue Program

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

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