



















Context

Physical:

- Approx. 1,500 square miles (960,000 acres)
- NW extension (Colorado Desert sub-region) of the Sonoran Desert
- Extremely arid, averaging 3-4 in. of rain per year
- Largely drained by the Whitewater River; flow is intermittent

Human:

- Approx. 350,000 year-around; highs of 800,000 in January and low 300's in July
- Over 100,000 acres of irrigated land
- Golfing Mecca; over 115 irrigated golf courses, many with lakes, in a desert
- Colorado River Aqueduct and the Coachella Branch of the All-American Canal covey imported surface water into the Valley
- Temperatures: Favorable Climate
 - Summer: Nighttime lows of 75°F to daytime highs of 112°F
 - Winter: Nighttime lows of 46°F to daytime highs of 88°F















What is the #1 water guzzler in the Valley?































What is the #1 water saver in the Valley?























Since June 2015, our customers have collectively saved more than 40.4 billion gallons of water, averaging 323,200 gallons per household (432 CCF).















What is the #1 water source in the Valley?













Water Sources for Coachella Valley



- Aquifer
 - Nearly all of the urban water used in CV comes from the aquifer, even if it didn't originate there
- Colorado River imports
 - Mostly agricultural water and golf courses
- Some surface water
 - A small percentage of water from local streams
- Recycled water
 - Nonpotable water distributed to public entities and golf courses

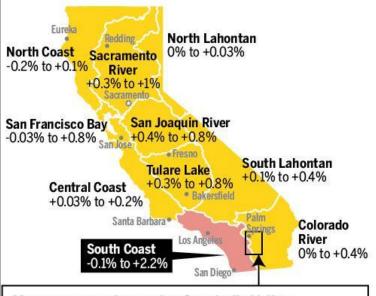
Presentation by Jessyca Frederick of Water Wise Now: http://waterwisenow.com





Growing demand for water

The Los Angeles and San Diego area is projected to have the greatest increase in urban water demand as California's population grows. Here are the projected increases from 2006 to 2050 in the state's 10 hydrological regions:



Meeting water demand in Coachella Valley

How the region plans to meet the 22 percent increase in water demand over the next three decades: 2045: Acre-feet 2015: 759,500 (+22%) per year 625,100 800,000 Baseline demand acre-feet Water conservation Desalination Recycled water 600,000 State water -Groundwater 400,000 -Colorado River 200,000

Sources: Department of Water Resources and Coachella Valley Water Management Plan BAY AREA NEWS GROUP

2040

2020



What is the #2 water saver in the Valley?



















Water Conservation Campaigns:

Education

- **School Presentations**
- Community Events/HOA Presentations
- Outreach/Marketing
 - Agency Mailers/Collateral
 - CV Water Counts Campaign (Splash)

Rebates/Incentives

- Turf Removal
- Irrigation Equipment Upgrades
- Smart Irrigatio









Water Conservation Campaigns:

Tools/Resources

- FREE Water Audits
- Water Budget Rates
- Variances
- Irrigation Watering Guides
- Landscape Design Guides
- Workshops
- Professional Landscape
 Certification Course
- Web Portals/Online Tools















Water Efficient Landscape Ordinance

State Model Water Efficient Landscape Ordinance and CVAG

<u>Evapotranspiration (ET)</u> - must install more water efficient plants <u>Irrigation Efficiency (IE)</u> - must install more water efficient irrigation systems

<u>Design</u> - Well designed landscape areas can increase irrigation efficiency and reduce evapotranspiration

Ground Cover - soil covering must be >3 inches in depth to reduce surface evaporation and increase soil moisture

Public Medians - no grass allowed















Statewide Permanent Water Restrictions

- √ Watering lawns within 48 hours of a rainstorm
- ✓ Hosing off sidewalks and driveways
- √ Washing automobiles without a shut-off nozzle
- ✓ Overwatering landscape to a point that causes run-off
- ✓ Irrigating ornamental turf on public street medians















INDOOR TIPS FOR RESIDENTS			OUTDOOR TIPS FOR RESIDENTS	
TIP LEGEND: No cost - Easy to do	Low cost - More effort required	Higher cost - Most effort required		her cost - Most effort required
Water Efficiency Tip		Estimated Savings	LANDSCAPE IRRIGATION Water Efficiency Tip Water only in the late evening or early morning hours to reduce evaporation and interference from wind.	Estimated Savings 20–25 gallons/day
Avoid using running water to thaw frozen foods.		2.5 gallons/minute	Don't overwater! • Turn off irrigation systems before rainstorms and leave them off for	15–25 gallons/minute; r up to 250 gallons/cycle
Scrape dirty dishes instead of rinsing them before washing.		2.5 gallons/minute	as long as possible after. Water only after the top 1 inch of soil is dry. • Program your irrigation controller to run based on local water agency restrictions. For information about local restrictions, go to WheninDrought.org.	
Wash fruits and vegetables in a bowl of water instead of in		2.5 gallons/minute		
running water.			Adjust sprinklers to prevent overspray and runoff.	15–25 gallons/day
Keep drinking water in your refrigerator to avoid wasteful running of tap water to cool it off.		2.5 gallons/minute	Repair leaks and broken sprinkler nozzles.*	10 gallons/minute/leak
			Add 2" to 3" of mulch around trees & plants to reduce evaporation.	20-30 gal./day/1,000 sq. ft.
Run the dishwasher only when full.		2—4.5 gallons/load	Install rain barrels.* Install a graywater system to help irrigate your landscape.	varies 16 gallons/load
		,	Install water-efficient drip irrigation system for trees, shrubs,	20–25 gallons/day
Don't leave water running when rinsing dishes.		2.5 gallons/minute	and flowers to get water to plant roots more efficiently.	
Turn off water when brushing teeth.		2 gallons/minute		40 gallons/day
Shorten showers.		2.5 gallons/minute	Replace your lawn and upgrade to WaterSmart landscape.*	up to 44 gallons/sq. ft. annually depending on climate
Don't use the toilet as a wastebasket.		1.6 gallons/flush	OTHER OUTDOOR IDEAS	
Wash only full loads of clothes.		15–50 gallons/load	Water Efficiency Tip Use a broom instead of a hose to clean driveways and sidewalks.	Estimated Savings 8–18 gallons/minute
Fix leaky toilets.		30–50 gallons/day/toilet	Collect warm-up shower water in a bucket and use to water plants.	2.5 gallons/minute
			When you give pets fresh water, use old water on your landscape.	2.5 gallons/minute
Fix leaky faucets.		15–20 gallons/day/leak	Adjust your pressure reducer (if you have one) to keep pressure between 40 and 60 p.s.i.	Varies
Install aerators with flow restrictors on kitchen/bathroom faucets.		4.7 gallons/day	While washing your car, use a self-closing nozzle for your hose.	8—18 gallons/minute
Install an instant hot water regirculating system or device		2. E. maillous /minute	Patronize car washes that recycle water.	15-32 gallons/wash
Install an instant hot water recirculating system or device.		2.5 gallons/minute	Fix leaky meters.	up to 1000s of gallons
Replace older, inefficient clothes washers.*		20–30 gallons/load	Repair any leaks around pool and spa pumps.	20 gallons/day/leak
Upgrade to high-efficiency toilets.*		0.3-3.8 gallons/flush	Repair leaking hose bibs. Install covers on pools and spas to reduce evaporation.	15–20 gal./day/leak 30 gallons per day
Install a water-efficient dishwasher.		4.25 gallons/cycle	Install a pressure reducer if your pressure is greater than 80 p.s.i.	Varies



Questions? Comments?











