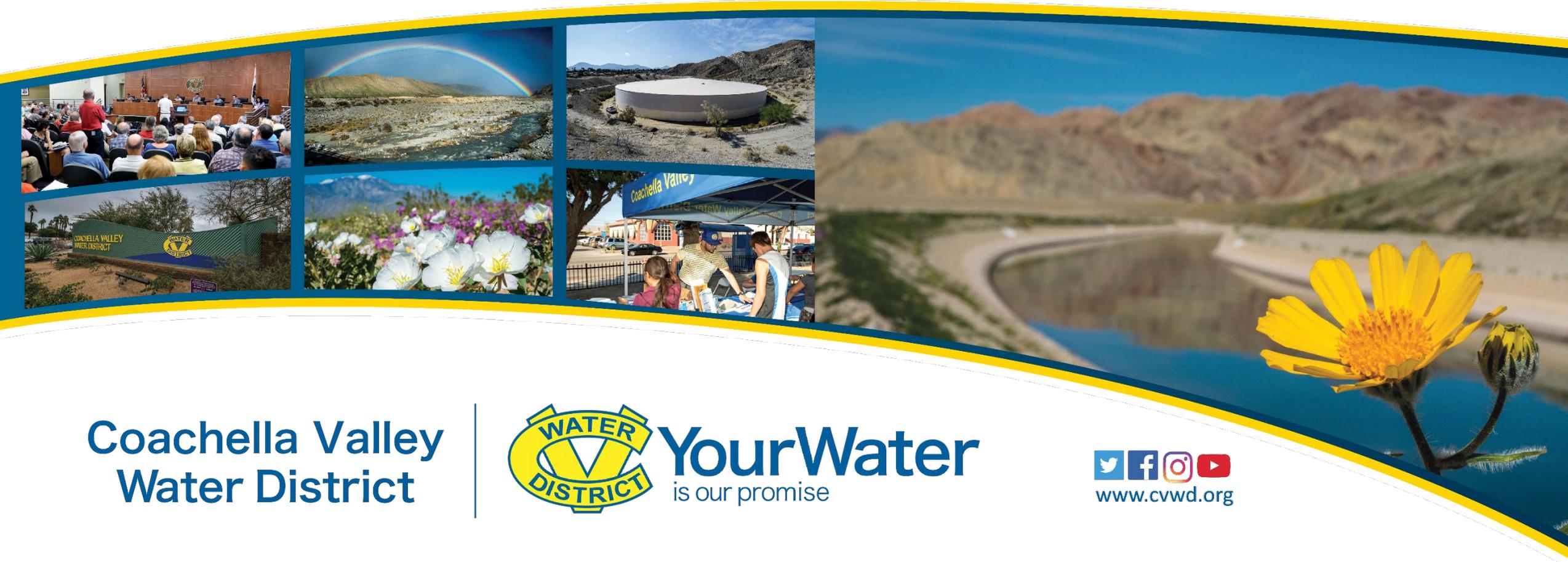


# Reduce Outdoor Water Use with Efficient Irrigation Practices

Presented by Bryan Peterson

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Coachella Valley  
Water District



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# To be Water Efficient

- We must consider irrigation system design and installation
- Field characteristics (soil type, size of area, slope) and Plant type
- Irrigation system (drip, sprinkler) flow rate, and pressure
- Irrigation scheduling
- Consistent operations and maintenance



# Common Irrigation Issues

- Misdirected sprinkler nozzles
- Mismatched sprinkler heads
- Mixed zones
- Inefficient spray or drip irrigation patterns
- Unusual water spots
- Sprinklers (tilted/sunken)
- Leaking irrigation valves
- Overspray/Runoff
- Broken irrigation pipes/risers
- Missing sprinkler heads/emitters
- Clogged spray heads & emitters
- Check irrigation controller (programs A,B,C) run times/start times



# Landscape Inefficiency & Efficiency

- Inefficiency



- Efficiency



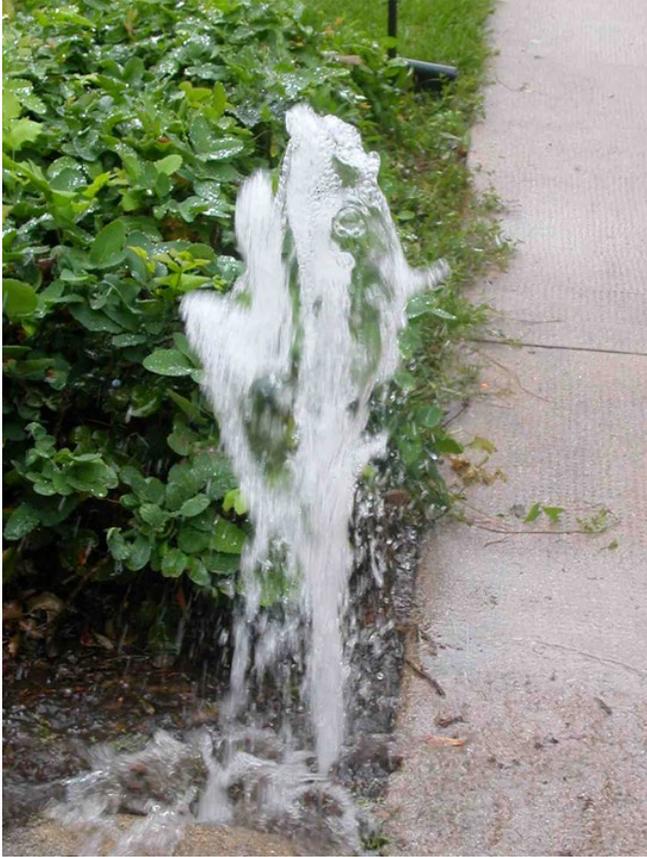
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# Irrigation Issues



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# Broken Sprinklers



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# To Help Prevent Runoff/Overspray

## What can create runoff/overspray:

- Wrong nozzle, (radius)
- Sloping and poorly graded land
- Sprinkler heads next to sidewalks
- High pressure, (misting, fogging)

## What corrections can be made:

- Adjust sprinkler nozzle
- Adjust irrigation schedule
- Move heads using a swing joint
- Reduce pressure, adjust flow control knob or install psi regulator



# Irrigation Run-Off



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# Overseeding

- Discouraged under Level 2 of the Water Shortage Contingency Plan
- Air quality issues avoided by not scalping
- Cost savings
- Maintenance/time savings



# Keep in Mind

Earlier this year, the State Water Resources Control Board adopted emergency regulations requiring CVWD to enforce all demand reduction actions under Level 2 of the District's *Water Shortage Contingency Plan*

## Currently in Effect:

- No **spray irrigation** during daylight hours
- Restaurants can only serve water upon request
- Overseeding discouraged
- Increased water waste patrols



# State Restrictions

- No irrigation during or within 48 hours after measurable rainfall.
- Broken sprinklers must be repaired within 24 hours of notification.
- Applying water to outdoor landscapes in a manner that causes runoff to adjacent property, roadways, parking lots, etc. is prohibited.



# Water-Saving Recommendations

## Residents can make right away

- Reduce irrigation controller start times/run times
- Install a smart irrigation controller (*see CVWD's Conservation Programs!*)
- Irrigate at night to minimize water loss to evaporation
- Continue watering plants and trees, but **skip overseeding this fall**
- Convert spray nozzles to high efficient rotary nozzles (*CVWD has a rebate for that!*)



# Solutions: Conservation Programs & Rebates

## Programs

- Conservation Reviews
- Landscape Workshops
- Conservation Kits

## Indoor Rebates

- HE Toilets
- HE Washing Machine
- Hot Water Recirculating Pump
- Commercial Pre-Rinse Nozzles

## Outdoor Rebates

- Turf Conversion (**\$3/sq. ft.**)
- Sprinkler Nozzle Upgrade
- Smart Irrigation Controller Install or Rebate



# Questions?

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