Folsom Water Conservation QR Code

Folsom's Water Conservation Webpage

- Rebates
- Water Wise House Calls
- Videos and Presentations
- Workshops
- Drought Info



dropcountr



How much water do you use each month?

More than my neighbors

Less than my neighbors

Not sure? Find out.

Already have a Dropcountr account? Log in

Direct Purchase Programs









DISTINC







Tonight's Agenda

- Managing your sprinklers
 - How, Why, When
- Scheduling your Sprinklers
 - Taking full advantage of your timer
- Equipment
 - Upgrading from 1970's (or older) technology





The most common question...

How long should I water?

Just long enough!

• The better question... How well do I water?



Factors to Landscape Water Needs

- Plant Material
- Irrigation Equipment
- Sun Exposure
- Soil Type
- Slope







Plant Material







Sun Exposure





Types of Soil







Slopes



• When do you need to water?

When the soil is dry

• When should you not water?

When the soil is moist

• How can you tell?

Check – look and touch the soil!





- When?
 - Avoid daytime hours with overhead sprinklers
 - Anytime for drip systems
- How long?
 - Less time than it takes to runoff
 - What's the infiltration rate?



- Cycle and Soak
 - Water short of runoff
 - Allow to soak in for 1 2 hours
 - Water again
 - Repeat as necessary



- Know your timer
 READ THE MANUAL
 - Programs
 - Start times
 - Run times
 - Interval scheduling
 - Calendar scheduling
 - Seasonal (%) adjustment
 - SMART Timer?



Don't fear the manual!

• Make a zone map



Know what comes on and where

Managing Your Sprinklers Hydrozones

• Distinct zones within your landscape

• Plants with similar water needs

 Uniform/compatible irrigation equipment



- Check ups Watch them run
 - Head-to-Head coverage
 - Broken risers
 - Leaking seals
 - Misdirected spray
 - Plugged/Broken nozzles
 - Low head drainage
 - Blocked spray
 - Tilted heads
 - Too deep/high
 - Mismatched equipment
 - High or low pressure
 - Hydrozones



- Repairs
 - -Repair quickly
 - -Repair correctly
 - -Avoid collateral damage
 - -Avoid high water bills
 - -Avoid wasted water
 - -Get help if necessary



Getting Help

Get Competent Help!

- CLCA contractor search
 - clca.org
- Ecolandscape California
 - ecolandscape.org
- Rescape California
 - rescapeca.org



Scheduling

- Identify zones
- Assign zones to programs
- Run times
- Start times
- Days on

Station					Station R	un Time		
No.	Location			PGM A	PGM B	PGM C	PGM D	
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
	-							
stan	Times							
	Start Time 1	Start Time 2	Start Time 3	Start Time 4	Start Time 5	Start Time 6	Start Time 7	Start Time 8
PGMA								
PGM B								
PGMC								
PGMD								
Wedne								
water	ng Days							
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Skip Days
PGM A								
PGM A PGM B								

Station		Station Run Time				
No.	Location	PGM A	PGM B	PGM C	PGM D	
1	Front yard turf, Pop-up	3 min	0	0	0	
2	Back yard turf, Impact rotors	10 min	0	0	0	
3	Back patio shrubs, Drip	0	45 min	0	0	
4	Back fenceline shrubs, Drip	0	45 min	0	0	
5	Front/side yard/driveway turf, Pop-up	3 min	0	0	0	
6	Back yard trees, Drip	0	0	1.5 hrs	\$ 0	
7	Vegetable garden, Drip	0	0	0	45 min	
8						
9						
10						
11						
12						

	Start Time 1	Start Time 2	Start Time 3	Start Time 4	Start Time 5	Start Time 6	Start Time 7	Start Time 8
PGM A	3 am	4 am	5 am					
PGM B	7 am							
PGM C	9 am							
PGM D	11 am							

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Skip Days
PGM A			On		On		On	
PGM B								5
PGMC								7
PGM D								2

So what's a sprinkler system?



System Components



Technology Evolves ?

1980 +/- 1950 +/-

2022

Electronics





Irrigation Controllers





Soil Moisture Sensors



Rain Shut-Offs



Wired





Wireless

Sprinkler Heads

Impact Driven Rotary Sprinklers

Upgrade to

Gear Driven Rotary Sprinklers









Sprinkler Heads

Just change the nozzles

Upgrade your lawn sprinklers





From Misting Spray Nozzles



To Rotary Nozzles





Drip Systems

Converting spray to drip Must have a filter and pressure reducer











Drip Systems

(Todays Technology) In-line Drip Emitters













Second Growing Season



Drip Tips

Don't Overload the system

Flow rate calculation

Time how long to fill a bucket - 2 minutes for a 5 gallon bucket Calculate gallons per hour (gph)



How many 1 gph emitters?150How many 1/2 gph emitters?300





Drip Tips

Emitter Placement









Drip Tips Retrofitting an existing spray system Capped Sprinkler Heads × PVC X Retrofit Kit Inline emitter tubing

Drip Tips

Don't be afraid to try something new

- There's no absolute one right way to do drip
- Ask 3 experts get 5 opinions
- Don't be afraid of trial and error
 - Plastic's cheap!



Summing It All Up

- It's not how long, it's how well you water
- Don't water moist soil
- Run-off = too much water
- Know your system
- Periodically check your system
- Find and use newer, better, and more efficient equipment
- AND... never be afraid to try!

It will never be this bad



