

NATIONAL

## Portland Decides Not to Flush Urine-Tainted Reservoir Water

*Danielle Wiener-Bronner | 56 Min Ago*

**P**ortland has backtracked on a decision to flush 38 million gallons of drinking water from a reservoir, made last month after security footage showed a teenager apparently urinating



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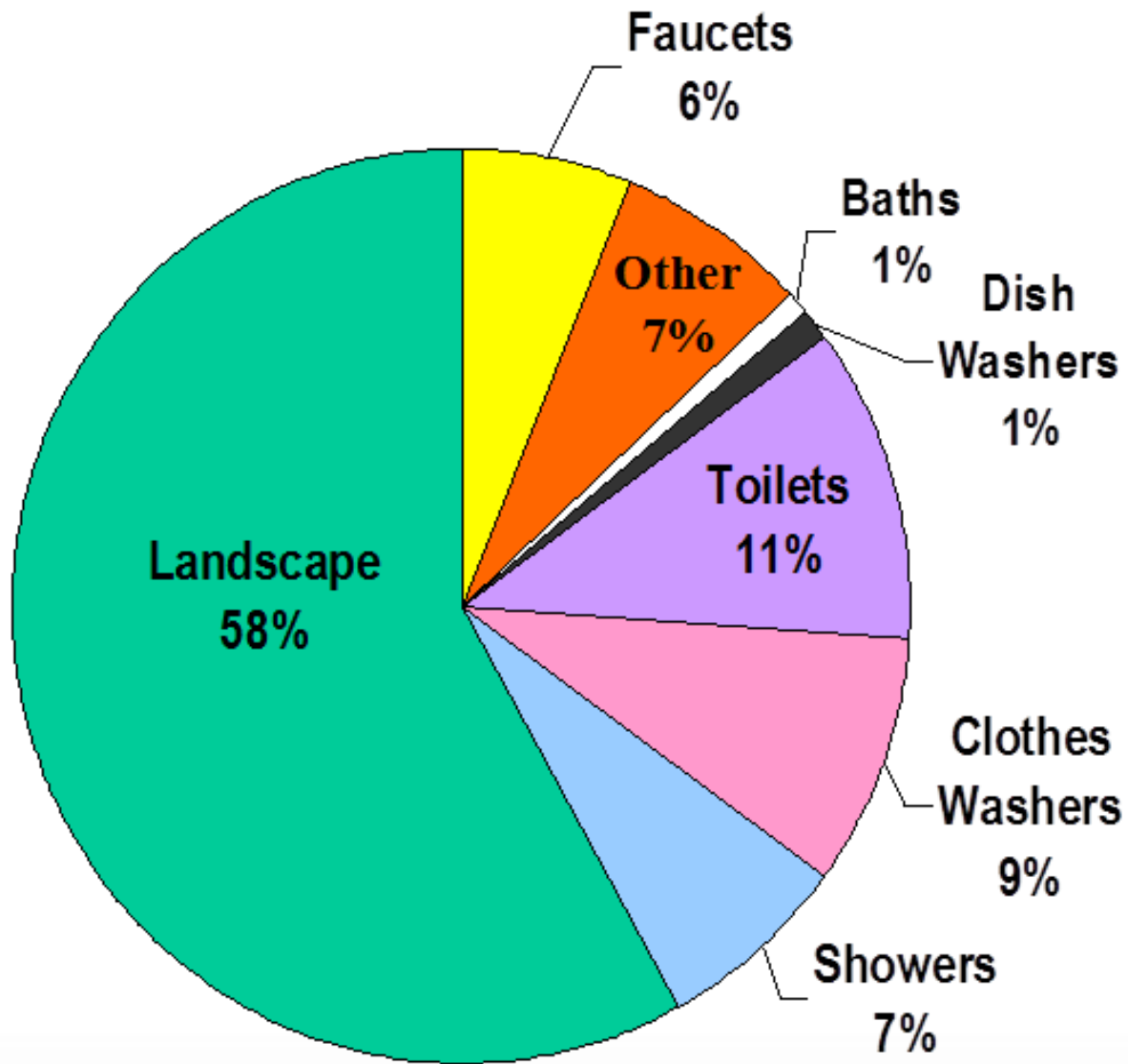
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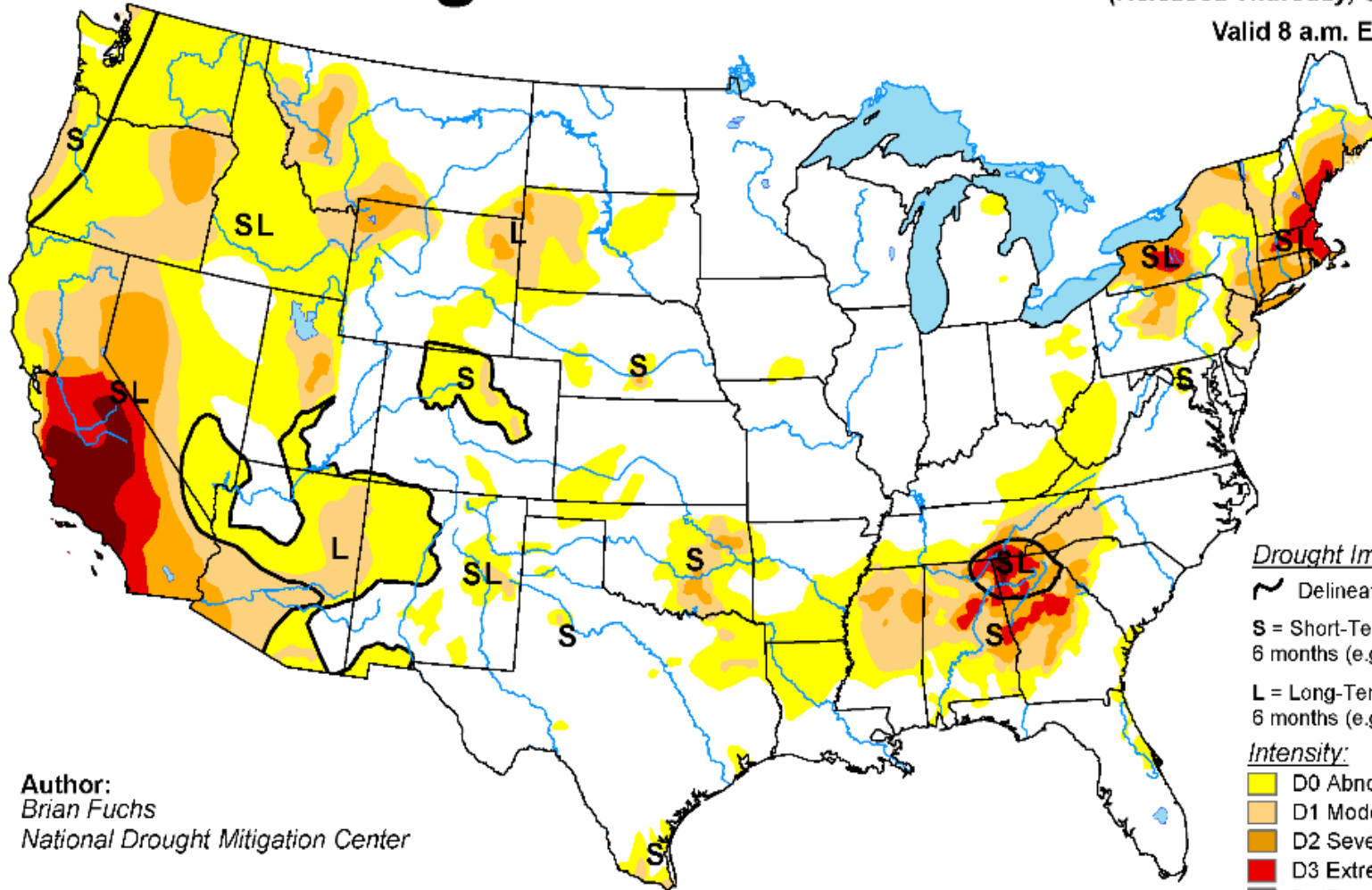
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Seattle and Participating Local Water Utilities

**Hunter**<sup>®</sup>



# U.S. Drought Monitor

October 4, 2016  
(Released Thursday, Oct. 6, 2016)  
Valid 8 a.m. EDT



Author:  
Brian Fuchs  
National Drought Mitigation Center

### Drought Impact Types:

- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

### Intensity:

- Yellow: D0 Abnormally Dry
- Light Orange: D1 Moderate Drought
- Orange: D2 Severe Drought
- Red: D3 Extreme Drought
- Dark Red: D4 Exceptional Drought



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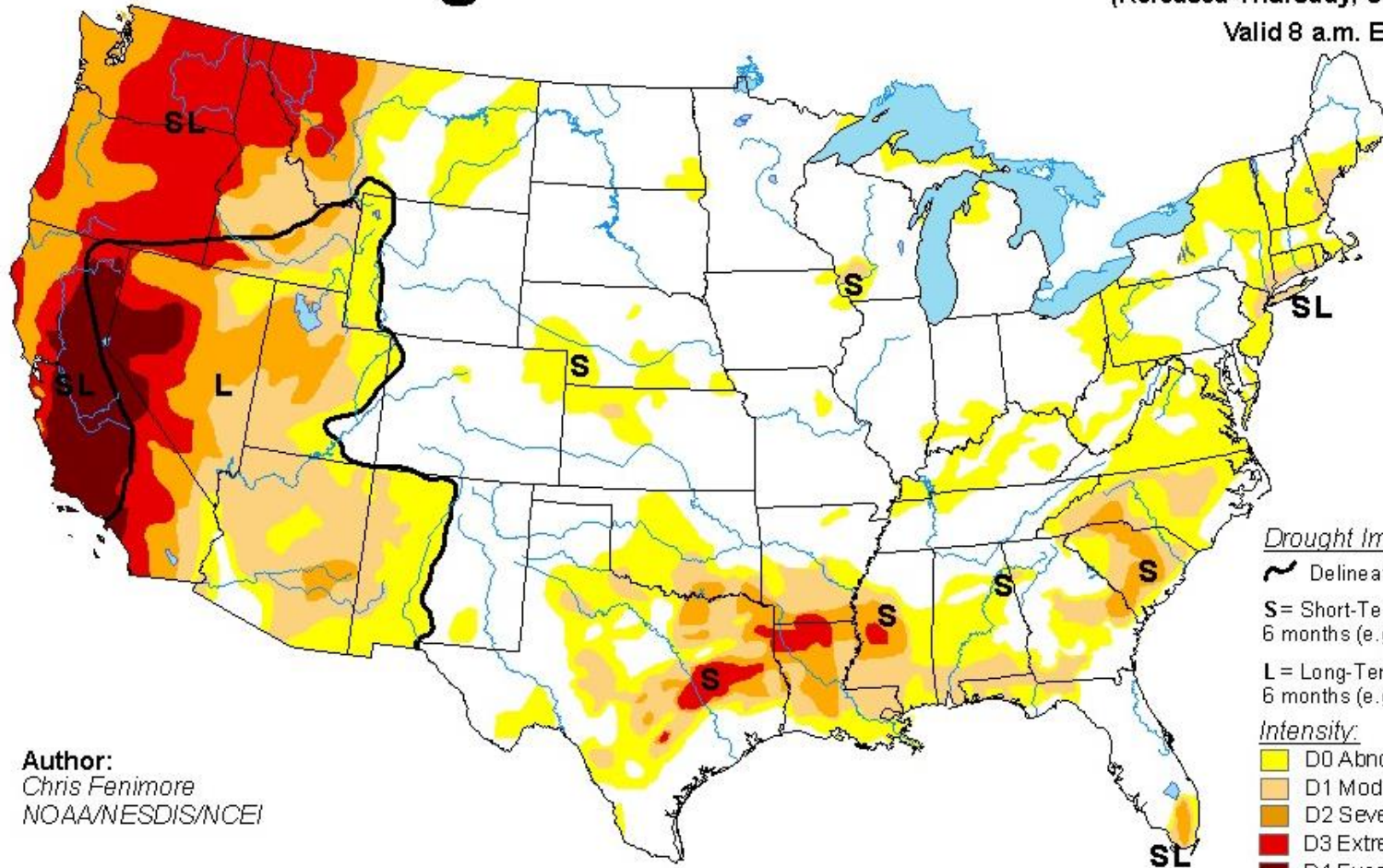
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# U.S. Drought Monitor

September 15, 2015

(Released Thursday, Sep. 17, 2015)

Valid 8 a.m. EDT



Author:  
Chris Fenimore  
NOAA/NESDIS/NCEI

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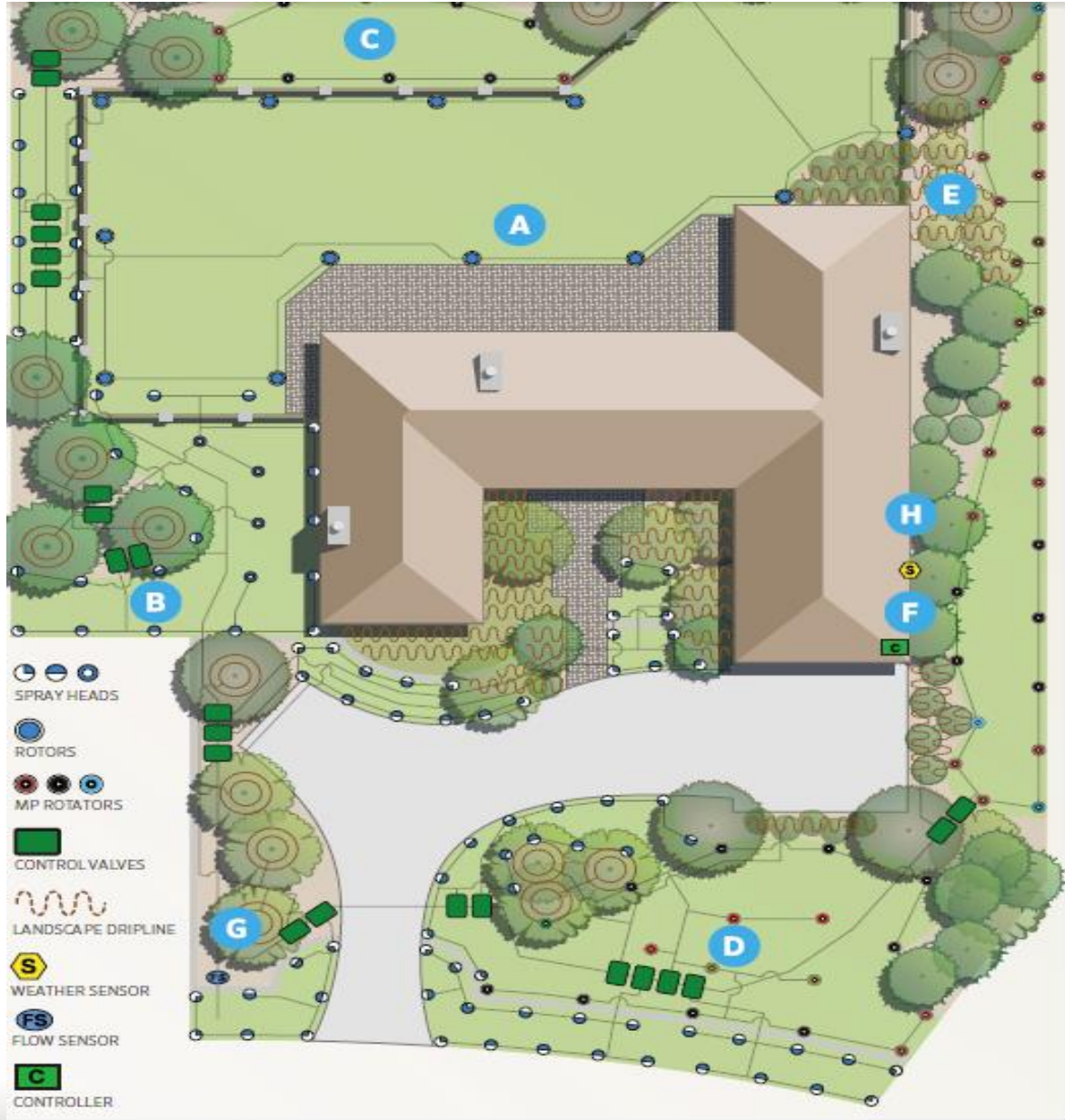
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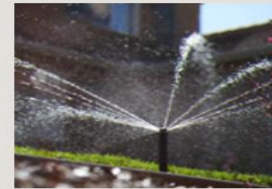
# MP Rotator® SR Series

High-Efficiency Nozzle for Short Radius Applications



## PROFESSIONALS

It's more than just products, it's people and partnership. Hunter gives you all the tools you need to succeed and grow your business.



## HOMEOWNERS

Hunter is committed to manufacturing top quality products that use only the water and energy needed to get the job done efficiently.



## RESOURCES

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[h-product/nozzles/mp-rotatorrr-sr-series](#)



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Find everything from support to features and benefits of Hunter products.

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## TOOLS & CALCULATORS

Hunter calculators are applications that let you see how to program your watering schedules.





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# Calculate Savings

1. Start by entering your landscape and water use information.
2. Choose a Hunter product calculator to see how much you can save.

These Water Savings Calculators were created as tools to demonstrate just how much water can be conserved when the most efficient Hunter innovations are put to use in any given landscape. To get started calculating your optimal water use, click the 'Water Use Information' button below.

**Start Here: Water Use Information**

## Calculators

Solar Sync

MP Rotator

MP Rotator Pressure Regulation

Conventional Spray Nozzle Pressure Regulation

Sprinkler Check Valve

This tool is designed to give users an estimation of the benefits associated with responsible water use. All results are calculated on an annual basis.

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**TRIVIA:** What is the estimated “peak month” irrigation use in Seattle metro?



**TRIVIA:** What is the estimated “peak month” irrigation use in gallons for this home?



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# Water Use Information

Use this tool to see how much water your irrigation system uses, and what you could save by incorporating more efficient products. Start by entering your landscape area and then your water use information from your water bill.

Your peak season monthly water use is **114,123** gallons of water, which costs **\$1,080**.

Maximum Summer High Temperature	<b>85°</b>	75°F		120°F
Square Feet of Grass Area	<b>20000</b>	0		20,000
Square Feet of Non-Grass Landscaped Area	<b>5000</b>	0		10,000
Cost Per Unit Of Water	<b>\$7.08</b>	\$0.01		\$20
Billing Unit "CCF" and "HCF" are the same thing.	<b>/CCF</b>	<input type="button" value="per CCF"/> <input type="button" value="per 1,000 gal."/>		

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Show Results



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**TRIVIA: CCF stands for what?**

**TRIVIA: How many gallons are in 1 CCF unit?**



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- Water Rates**
- Residential Water Rates
- Master Meter Residential
- Third Tier Water Rates
- Third Tier Appeal Process
- Frequently Asked Questions

[Services](#) > [Water](#) > [Water Rates](#) > [Residential Water Rates](#)

Select Language ▼

## Residential Drinking Water Rates

### Base Service

Effective January 1, 2016

### Residential Commodity Charge per CCF (100 cubic feet)

Effective January 1, 2016

#### Water pipe diameter

3/4" and less  
(Most common residential size)

1"

1-1/2"

2"

3"

\* These rates apply to...

#### Residential Commodity Charge

Effective January 1, 2016

Seasonal water usage	Inside Seattle	Outside Seattle	Shoreline & Lake Forest Park*
Off-Peak Usage (Sept. 16 - May 15)	\$5.06	\$5.77	\$6.14
Up to 5 CCF per month during peak usage (May 16 - Sept. 15)	\$5.20	\$5.93	\$6.31
Next 13 CCF per month during peak usage (May 16 - Sept. 15)	\$6.43	\$7.33	\$7.80
Over 18 CCF per month during peak usage (May 16 - Sept. 15)	\$11.80	\$13.45	\$14.31

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#### Forest Park\*

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## Smart Watering

Watering too much causes many common plant problems. You can grow healthier, deeper-rooted plants, save money on water bills, and conserve precious water by watering the system and zones just what they need, and no more.

Natural yard care  
5 steps to a healthy yard

### Water deeply, but

Most plants do best with deep waterings. For lawns, water once a week for 15 minutes. Vegetables need water if they show signs of wilting, but shrubs usually don't need water if they are established (two to five years).

### Moisten the whole

Watering deeply but infrequently moistens the whole root zone, d

### Make every drop

Some easy ways to

- Mix compost
- Check soil
- Use soaker hoses
- Use a timer

- Water lawns separately from other plantings. Make sure sprinklers aren't watering the pavement too.
- When soil is dry or compacted it won't absorb water quickly. If water puddles, stop watering for a while and then restart, so the water has time to soak in.
- Water in the early morning or evening – if you water at mid-day, half of the water just evaporates.

### Use automatic irrigation systems efficiently

Automatic systems often waste a lot of water, or they can be fairly efficient depending on how you set and maintain them.

- Have a professional test, repair, and adjust your system annually.
- Inspect the system while operating once a month – look for leaks or heads that are plugged or misdirected.
- Install a rain shutoff device (ask your irrigation expert where to find them).
- Adjust the watering schedule at least once a month through the season – plants need a lot less water in May and September than they do in July and August.

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## Month-by-Month Watering Schedules for the Seattle Area

These schedules assume **there is a rain shut-off device on the system.**

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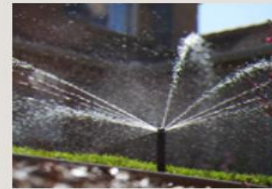
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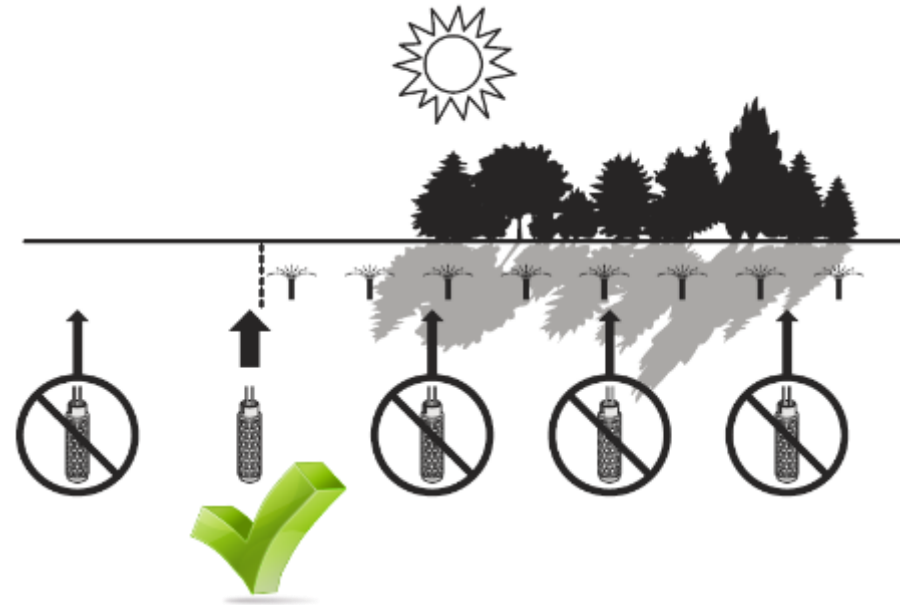
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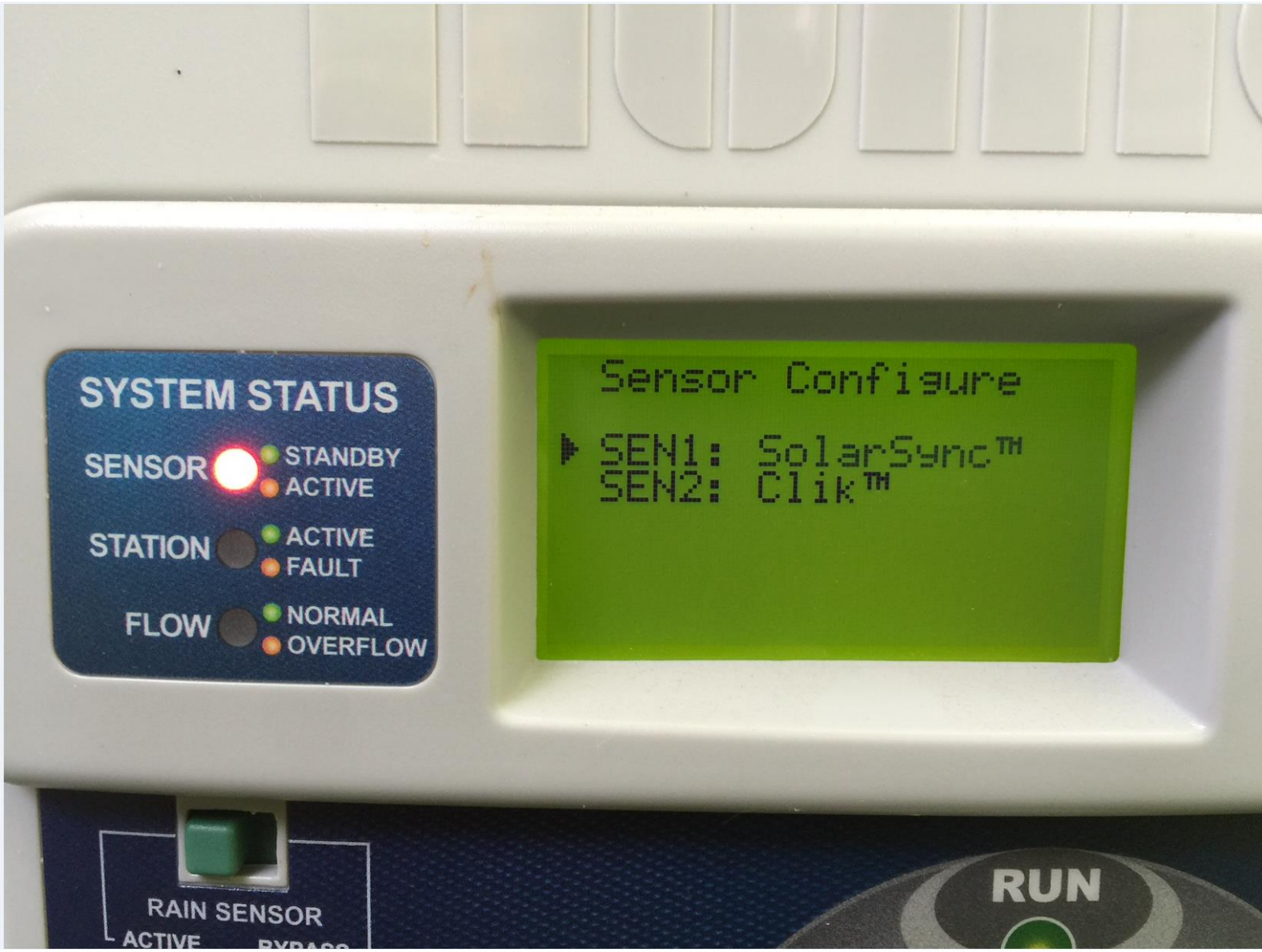
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## How does this work?

- Choose sunniest, driest location in landscape
- Place probe in the root zone
- Make this the last station in the program
  - So that normal irrigation does not interrupt the program prematurely
- When the sensor is wet, irrigation is interrupted
  - By smart sensor input, or
  - By Common wire interrupt





**SYSTEM STATUS**

SENSOR   STANDBY  
 ACTIVE

STATION  ACTIVE  
 FAULT

FLOW  NORMAL  
 OVERFLOW

Sensor Configure








▶ SEN1: SolarSync™  
SEN2: Klik™

**RUN**

RAIN SENSOR  
ACTIVE BYPASS

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**SYSTEM STATUS**

- SENSOR   STANDBY  
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Station Run Time

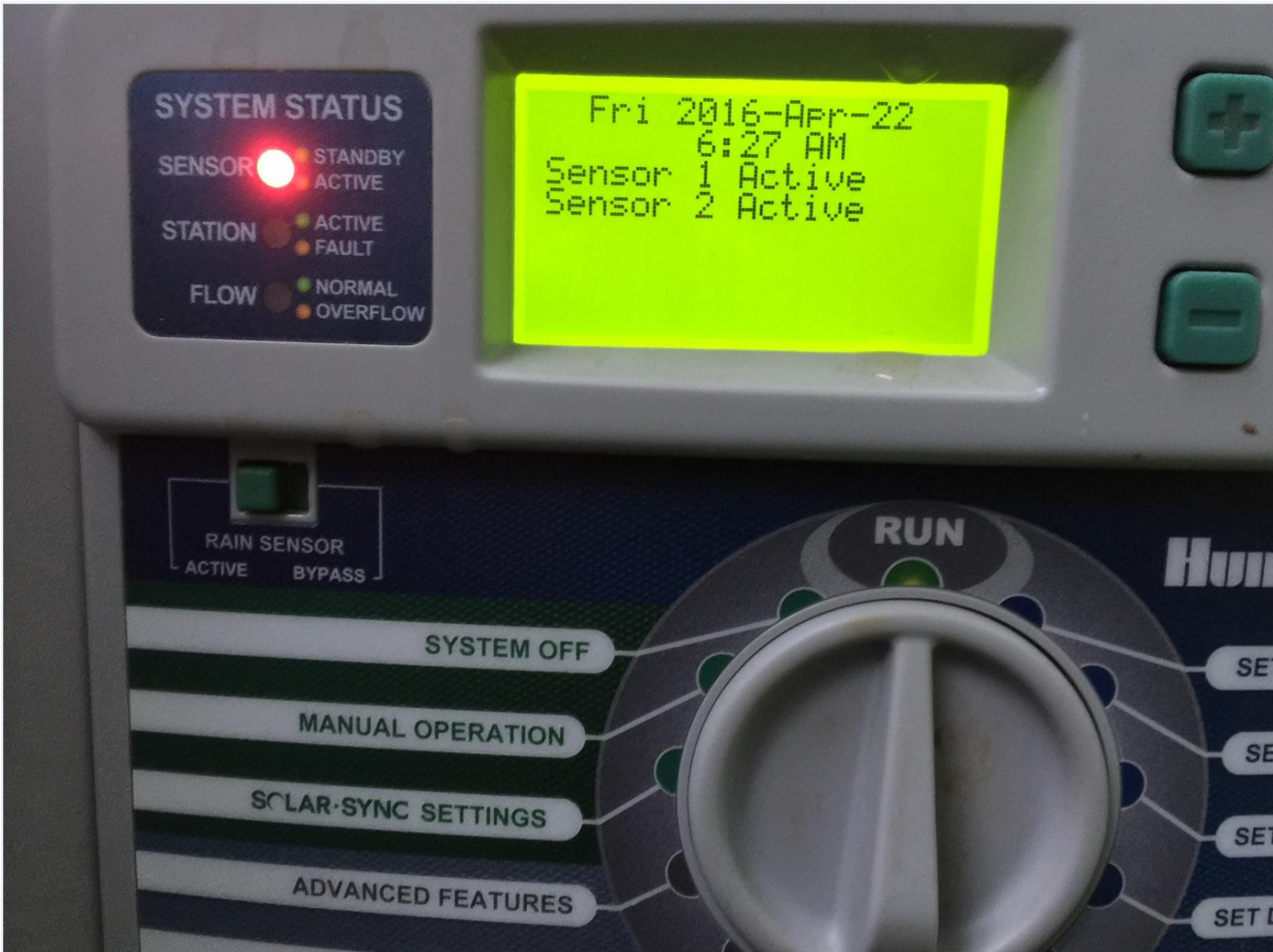
3A

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Suspended

RAIN SENSOR  
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**RUN**







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# MP Rotator

## Rotating Streams Make Every Drop Count

Rather than simply "spray" water, MP Rotators emit multiple streams of water at a slow, steady rate. This revolutionary water delivery method can reduce water use by 30% or more. To see the difference MP Rotators can make if you upgrade your existing spray head system, use the slider to enter your information.

Annually, MP Rotators Could Save You 236,018 gallons of water (31% of what you're using now), and \$1359.



Percentage of Grass Area changing from sprays to MP Rotators

100%

0



100

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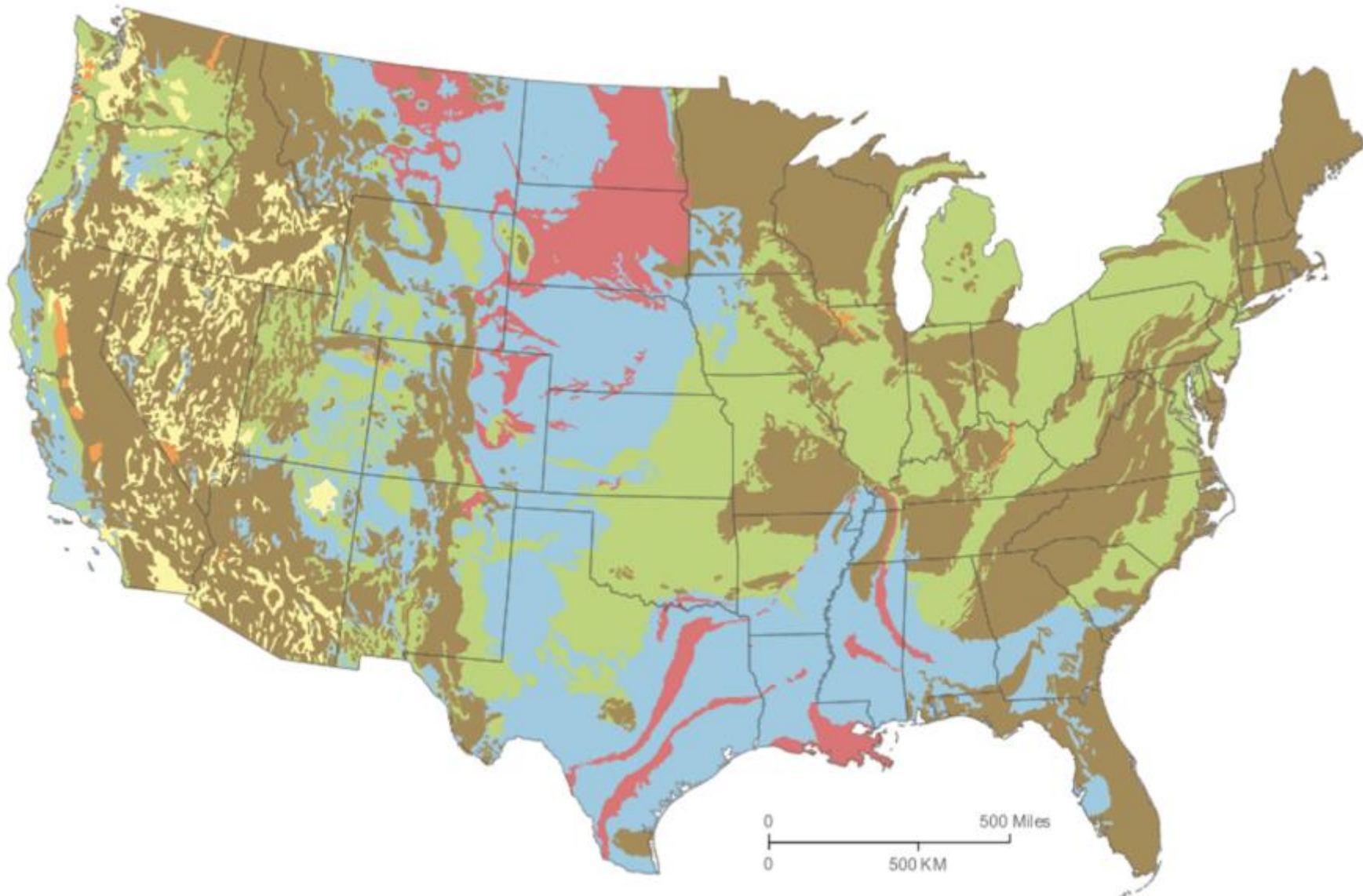
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Replace these...



...With these



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## MAXIMUM PRECIPITATION RATES

The maximum PR values listed are as suggested by the United States Department of Agriculture. The values are average and may vary with respect to actual soil condition and condition of ground cover.

SOIL TEXTURE	MAXIMUM PRECIPITATION RATES: INCHES PER HOUR							
	0 to 5% slope		5 to 8% slope		8 to 12% slope		12%+ slope	
	Cover	Bare	Cover	Bare	Cover	Bare	Cover	Bare
Course sandy soils	2.00	2.00	2.00	1.50	1.50	1.00	1.00	0.50
Course sandy soils over compact subsoils	1.75	1.50	1.25	1.00	1.00	0.75	0.75	0.40
Light sandy loams uniform	1.75	1.00	1.25	0.80	1.00	0.60	0.75	0.40
Light sandy loams over compact subsoils	1.25	0.75	1.00	0.50	0.75	0.40	0.50	0.30
Uniform silt loams	1.00	0.50	0.80	0.40	0.60	0.30	0.40	0.20
Silt loams over compact subsoil	0.60	0.30	0.50	0.25	0.40	0.15	0.30	0.10
Heavy clay or clay loam	0.20	0.15	0.15	0.10	0.12	0.08	0.10	0.06





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		ROTOR Heads	SPRAY Heads	ROTATOR** Nozzles	
May	2	34 (2 cycles of 17 mins.)	14 (2 cycles of 7 mins.)	52 (2 cycles of 26 mins.)	70%
June	2	34 (2 cycles of 17 mins.)	14 (2 cycles of 7 mins.)	52 (2 cycles of 26 mins.)	80%
July	2	34 (2 cycles of 17 mins.)	14 (2 cycles of 7 mins.)	52 (2 cycles of 26 mins.)	100%
Aug	2	34 (2 cycles of 17 mins.)	14 (2 cycles of 7 mins.)	52 (2 cycles of 26 mins.)	80%
Sept	2	34 (2 cycles of 17 mins.)	14 (2 cycles of 7 mins.)	52 (2 cycles of 26 mins.)	60%

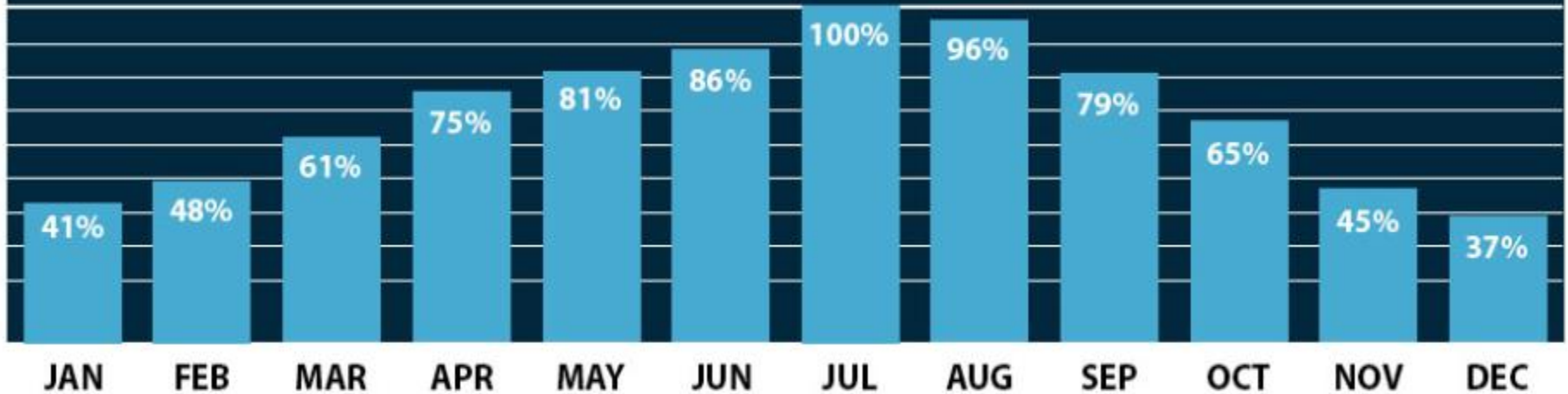


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## CALCULATES (ET) EVAPOTRANSPIRATION ADJUSTS YOUR CONTROLLER'S RUN TIME



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PRODUCTS

PROFESSIONALS

RESOURCE GUIDE

TOOLS AND CALCULATORS

CONFIGURATOR

MOBILE PRODUCT CATALOG

RUN TIME CALCULATOR

WATER SAVINGS CALCULATOR

INNOVATION MEETS CONSERVATION

NEWSROOM

GET HUNTER

HUNTER COMPANY

HOME » TOOLS AND CALCULATORS

## TOOLS AND CALCULATORS

Hunter Industries' website is designed to be a tool for the irrigation professional. Tools and Calculators can also be found on individual product pages.



### Hunter's Commercial Controller Configurator

The Hunter Commercial Controller Configurator is designed specifically with the professional in mind to help you build a list of materials for your projects. This free tool allows you to export your material list to Microsoft Excel to add to a plan or place an order.



### Hunter's Mobile Product Catalog

Access Hunter's interactive catalog quickly from your mobile device. With the power and knowledge of the entire line of innovative Hunter products at your fingertips, there's nothing holding you back.



### Hunter's Run Time Calculator

Available 24 hours a day, 7 days a week. It's easy and best of all, it's free.



### Hunter's Water Savings Calculator

Use Water Savings Calculator created as a tool to demonstrate just how much water can be conserved when the most efficient Hunter innovations are put to use.

#### RESOURCE GUIDE

VIDEO LIBRARY

DOCUMENT LIBRARY

SITE STUDY LIBRARY

#### SUPPORT LIBRARY

HOMEOWNER SUPPORT

INTERNATIONAL SHIPPING

WARRANTY

#### CORPORATE

CONSERVATION

FXL LIGHTING

HUNTER CUSTOM MOLDING

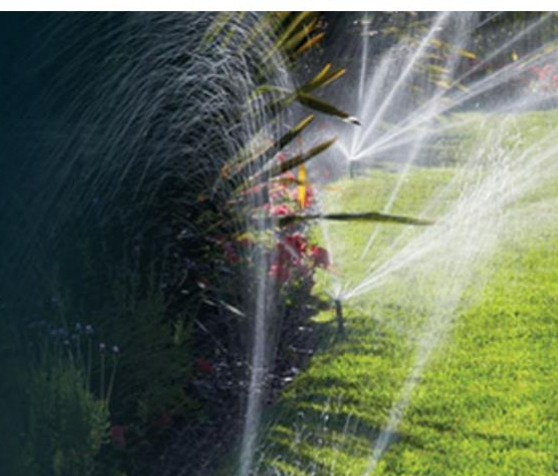


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## Calculate Savings

1. Start by entering your landscape and water use information.
2. Choose a Hunter product calculator to see how much you can save.

These Water Savings Calculators were created as tools to demonstrate just how much water can be conserved when the most efficient Hunter innovations are put to use in any given landscape. To get started calculating your optimal water use, click the 'Water Use Information' button below.



[Start Here: Water Use Information](#)

### Calculators

[Solar Sync](#)

[MP Rotator](#)

[MP Rotator Pressure Regulation](#)

[Conventional Spray Nozzle Pressure Regulation](#)

[Sprinkler Check Valve](#)



# Solar Sync

## Automatically Adjusting for Seasonal Changes

The Solar Sync is an advanced weather sensor that adjusts controller run times based on daily weather conditions and greatly enhances system efficiency. To see just how much of an impact the Solar Sync will have on your system, select the months your landscape requires watering on the calendar.



Annually, Solar Sync Could Save You **11,412** gallons of water (3% of what you're using now), and **\$108**.

January	February	March	April
May	June	July	August
September	October	November	December

[Back](#) [Show Results](#)



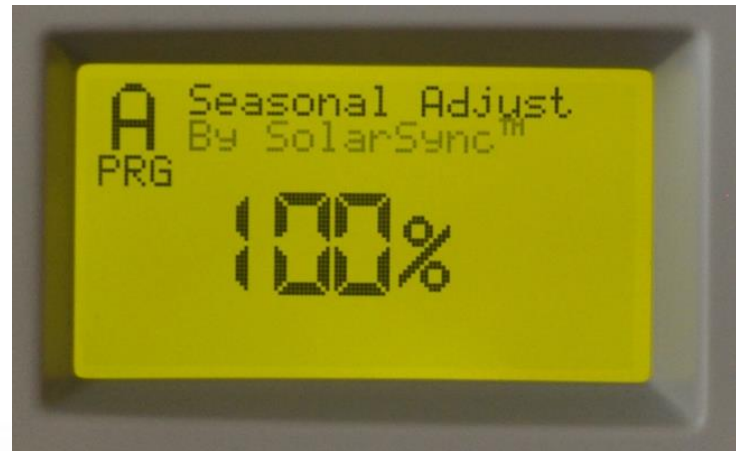
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July

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December

Back

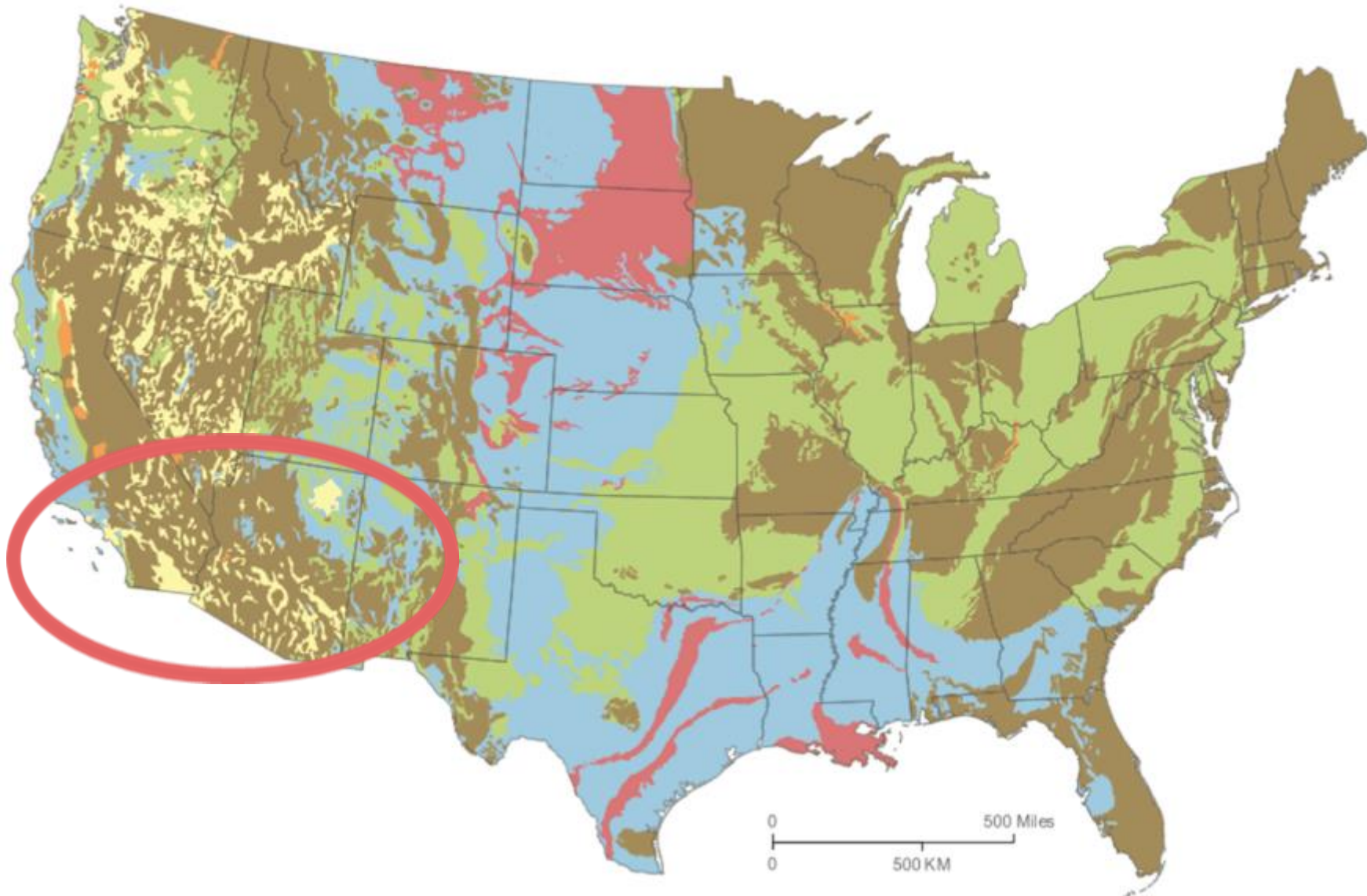
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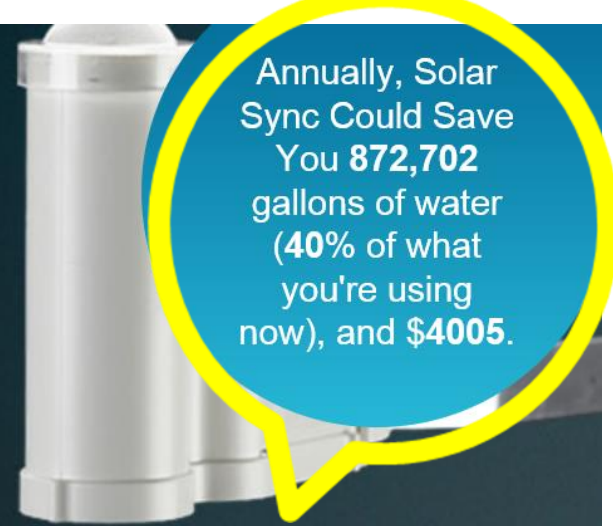
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**TRIVIA:** What 2 seasons generate the greatest water savings when an EPA WaterSense controller is used?

**TRIVIA:** The single most important factor in overhead irrigation (nozzles) is matching \_\_\_\_\_ rate with soil \_\_\_\_\_ rate?







## Rebates

### Partnership Service Areas

#### Residential

Toilets

Sprinkler System Upgrades

#### Apartment and Condominium Owners

Multifamily Toilet Replacement

Sprinkler System Upgrades

### Sprinkler System Upgrades



#### Irrigation Timer (one acre of irrigated area or less)

Apartment and condominium customers with less than one acre of irrigated area may be eligible to receive a \$100 rebate for one WaterSense certified irrigation timer. Where gift cards or credits bring the total cost of the timer below \$100, a rebate check will be issued for the lesser amount.

Eligible customers are those who receive water from one of these [Saving Water partners](#).

The rebate is for the replacement of an existing controller that is not currently [WaterSense certified](#).

Go to the [WaterSense](#) website for a list of WaterSense certified controllers.

Please open the [rebate application form](#) (pdf) and follow the 4 easy steps.

If you have questions, please contact: Mark Guthrie at [mark.guthrie@seattle.gov](mailto:mark.guthrie@seattle.gov) or (206) 684-5955.



[Daniel.Motylewski@HunterIndustries.com](mailto:Daniel.Motylewski@HunterIndustries.com)

# SLOW the FLOW



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Questions?

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