

# Host



**Tom Hickmann, PE**  
**Chief Executive Officer**

## **Municipal Water**

- TVWD since August 1, 2019
- City of Bend – 14 years

## **Engineering Consultant**

- David Evans and Associates
- MBK Engineers

## Efficient Outdoor Water Use

### Presenter



**Steve Carper**  
Conservation  
Technician

### Water Experts



**Mike Etienne**  
Field Customer  
Service Lead



**Carissa Sosa**  
Customer Service and  
Billing Specialist

**Thank you for joining today's Talkin' Water Episode!**



**TUALATIN VALLEY**  
WATER DISTRICT

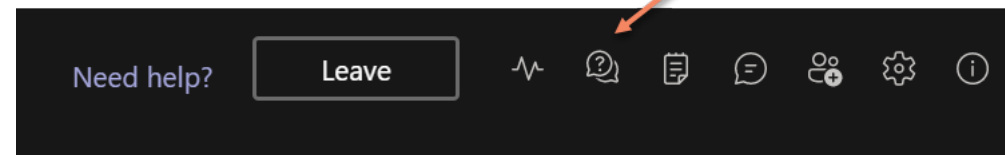
# Efficient Outdoor Water Use

Wednesday, May 19, 2021



Steve Carper  
Conservation Technician  
[steve@tvwd.org](mailto:steve@tvwd.org)  
503-848-3064

**Please feel free to type Questions in the Chat.**

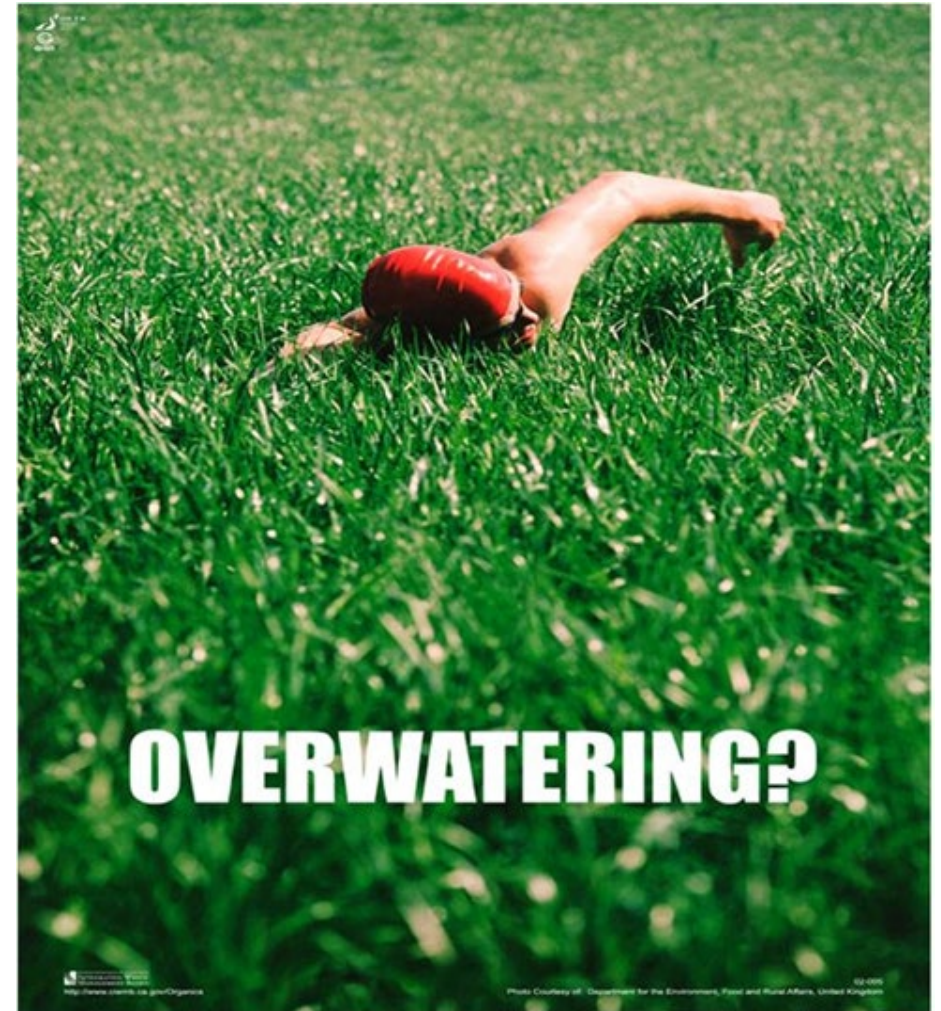




# Agenda

- What is outdoor water use and why is it important?
- How does efficient outdoor water use benefit residential customers?
- Common outdoor watering problems
- Conservation services and resources
- Emerging technology
- Planning for the future
- Questions & Discussion

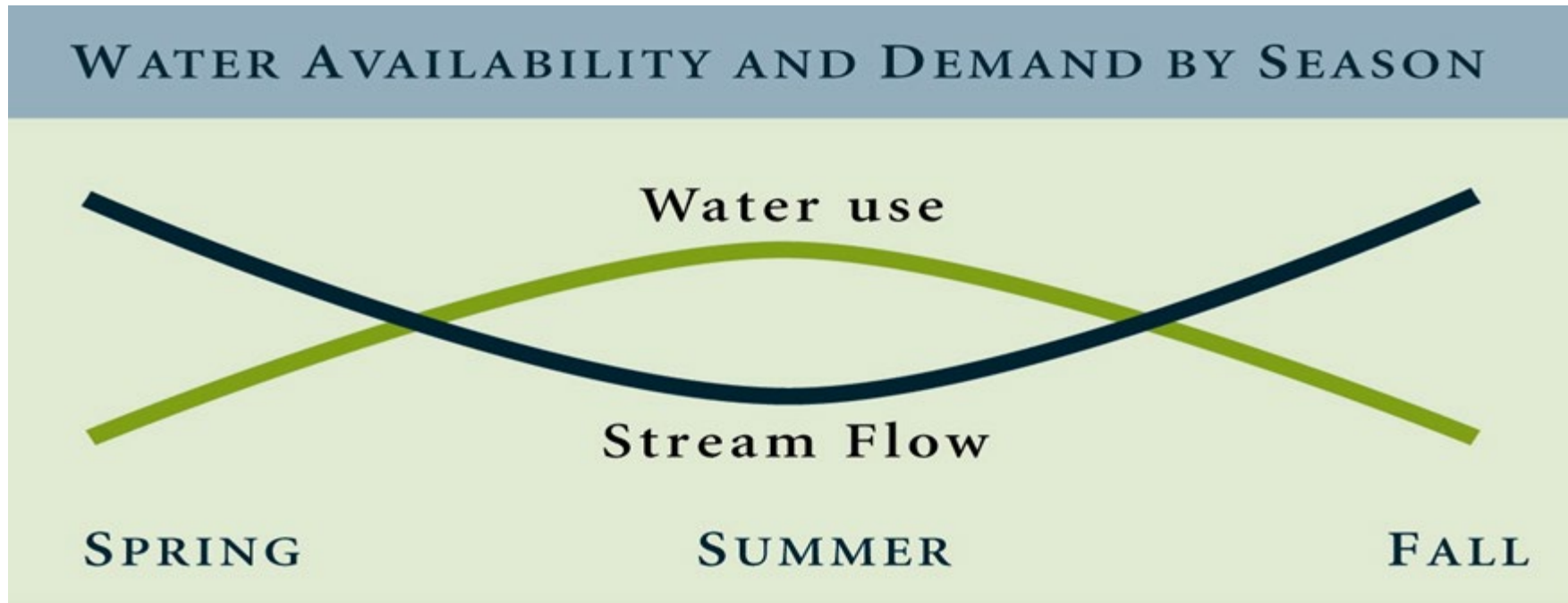
# What is Outdoor Water Use and Why is it Important?



# What is Outdoor Water Use and Why is it Important?



# What is Outdoor Water Use and Why is it Important?



# How Does Efficient Outdoor Water Use Benefit Customers?





# Common Outdoor Watering Problems





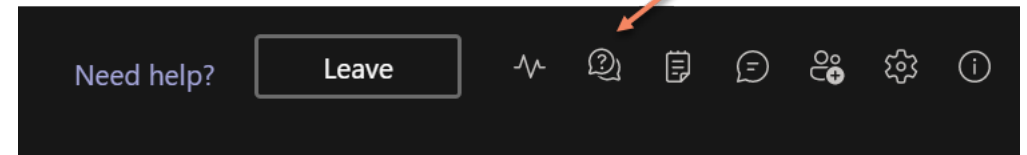
**TUALATIN VALLEY**  
WATER DISTRICT

# Efficient Outdoor Water Use

Wednesday, May 19, 2021

Steve Carper  
Conservation Technician  
[steve@tvwd.org](mailto:steve@tvwd.org)  
503-848-3064

**Remember to type Questions in the Chat.**



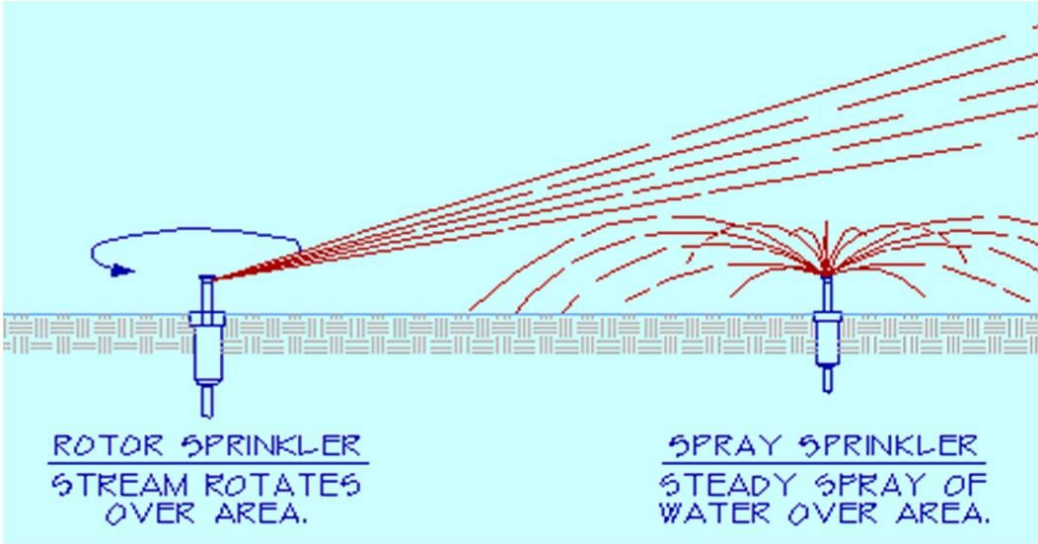
# Common Outdoor Watering Problems



# Common Outdoor Watering Problems



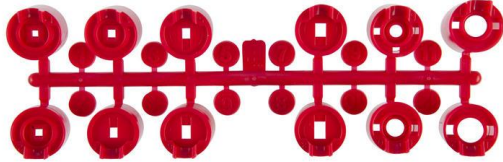
# Common Outdoor Watering Problems



0.5" per hour

1.5" per hour

# Common Outdoor Watering Problems



# TVWD Residential Rebates



# Services & Resources



[www.regionalh2o.org](http://www.regionalh2o.org)





# Emerging Technology Provides Better Data

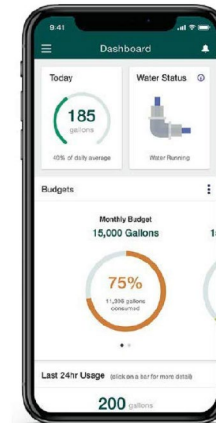
**SIMPLE INSTALLATION.  
NO PLUMBING REQUIRED.**



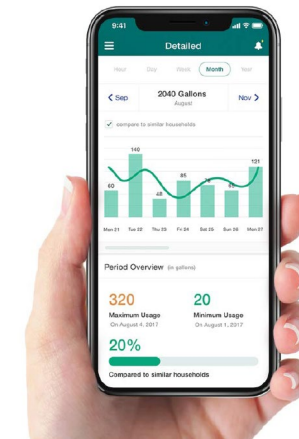
**YOUR EXISTING  
WATER METER**

**FLUME  
WATER SENSOR**

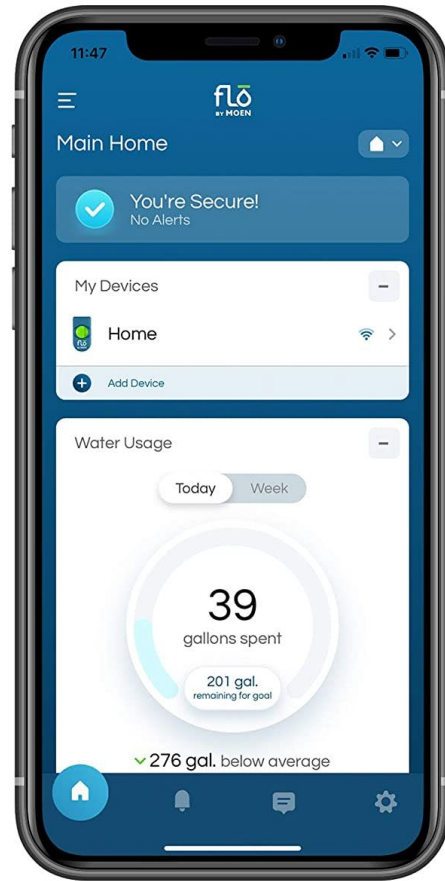
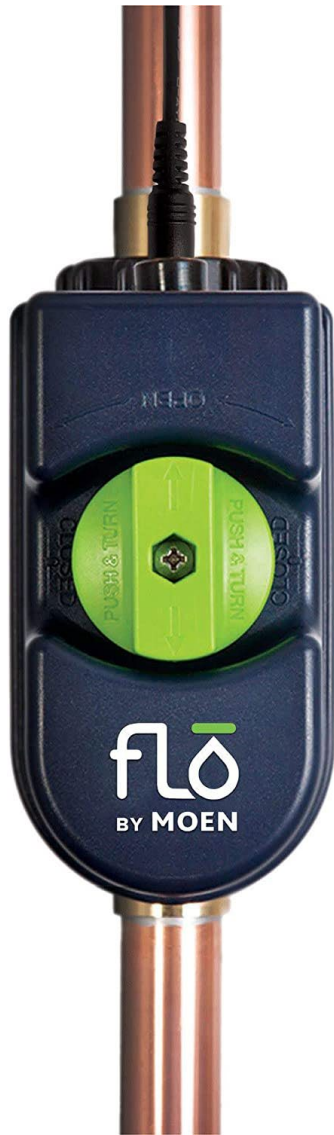
Monitor and protect your home from anywhere with real time leak alerts



Track real time and historical water usage down to the minute.



# Emerging Technology Provides Better Data



# Advanced Metering Infrastructure (AMI)





**TUALATIN VALLEY**  
WATER DISTRICT

# Now it's your turn! Any Questions?



**Steve Carper**  
Conservation  
Technician



**Mike Etienne**  
Field Customer  
Service Lead



**Carissa Sosa**  
Customer Service and  
Billing Specialist

[Communications@tvwd.org](mailto:Communications@tvwd.org) | Call 503-848-3000 | [tvwd.org](http://tvwd.org)



**Thank you for joining us today!**

**Join us for our next Talkin' Water:  
Backflow and Cross Connections**

**June 2, noon – 1 p.m.**

**[Tvwd.org/TalkinWater](http://Tvwd.org/TalkinWater)**