# This presentation premiered at WaterSmart Innovations

watersmartinnovations.com





# WaterSmart Innovations





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Water Conservation Administrator

City of Beverly Hills





# Acronym Explained

OH MY GOODNE



Automated Meter Infrastructure Big Fat Data

Oooh

My
Goodness!





#### **Delicious Data**

- ♦ You know if there's an issue
- You can figure out the solution faster
- You can figure out trends
- ♦ You can save more water
- You can help your customers & Mother Nature







# **B.H.'s Conservation History**

- ◆ AMI installed 11 years ago
- ♦ Initially read every 6 hours, now hourly
- Customer portal
- **♦** 12,000 meters











- **♦** 15% Reduction from 2013
- ♦ Water 3 days a week (June Sept)
- ♦ Water 2 days a week (Oct May)
- Appx 8 minutes per station for pop-up sprinklers & 15-20 minutes for drip







# What The BFD ...





# What The BFD ... is Used For

- ♠ Creates a Daily Leak List
- Connects to Customer Portal program
  - ♠ Communicates with AMI program
  - ◆ Alerts are sent out
- ◆ Targets Water Flow Issues & Excessive Irrigation
- Excites & Overwhelms me







#### <u>O</u>

#### **ANNUAL COMMUNICATION FOR 2020**

- Auto Alerts
- ♠ Emails & texts
- **♦** Calls
- **♦** Letters

◆ Audits (in person & FT {90%})

140,000

4,700

3,150

400

400





# How I Use It

# So Many Ways To Slide & Dice & Chop

the Data



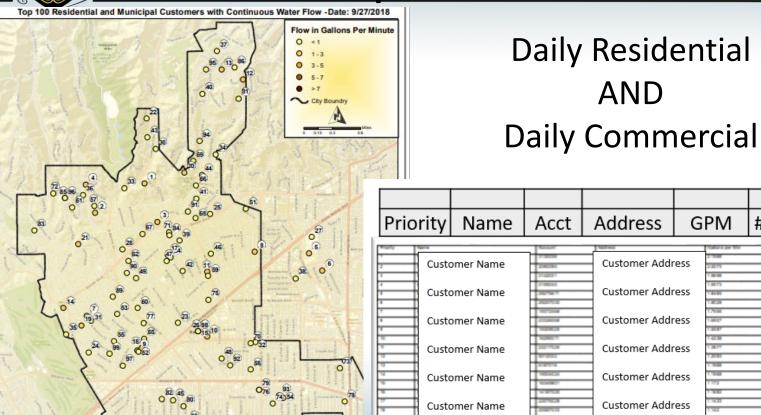




# Top 100 List

**GPM** 

# of Days



Analytic map by City of Beverly Hills Information Technology



**Drive the Streets** 

# How I Use It

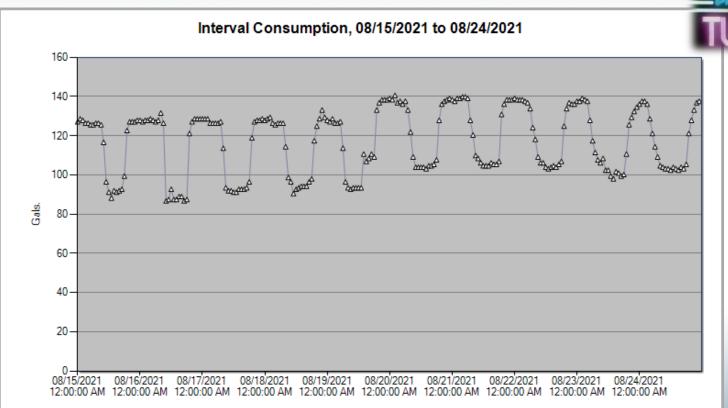
Water Tracker (on my phone)

Task	Program/Created by
Check Leak List	Aclara, City's IT Dept
Check highest water users	Water Tracker
Check excessive water users	EagleView (soon Eagle Aerial) – AND - IT Dept
Confirm why a bill is high	Aclara
Check data against data	All 4 programs
Check data for email & calls	Customers



# Name That Flow







3500

3000 -

2500 -

1500

1000

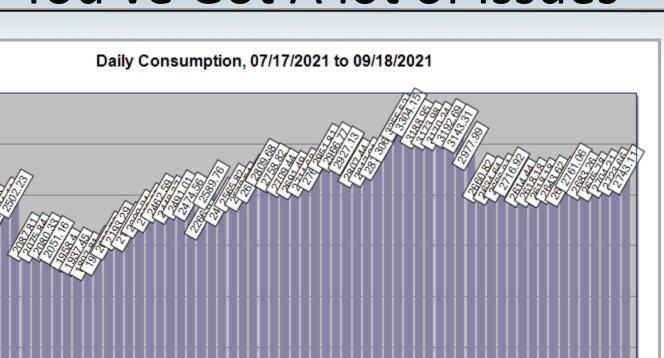
500

07/25/2021

08/08/2021

Gals.

# You've Got A lot of Issues



08/22/2021

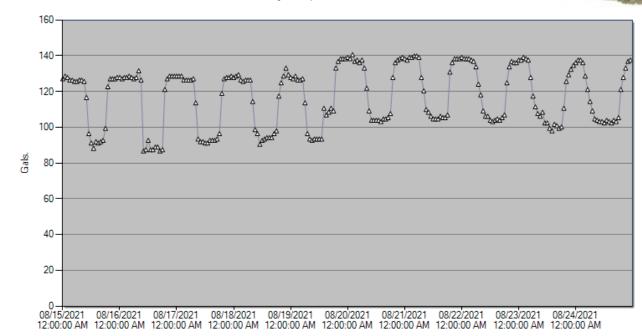
09/05/2021



### Name That Flow



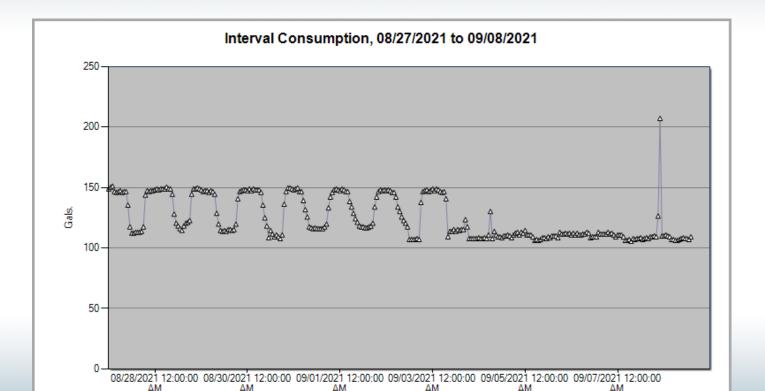










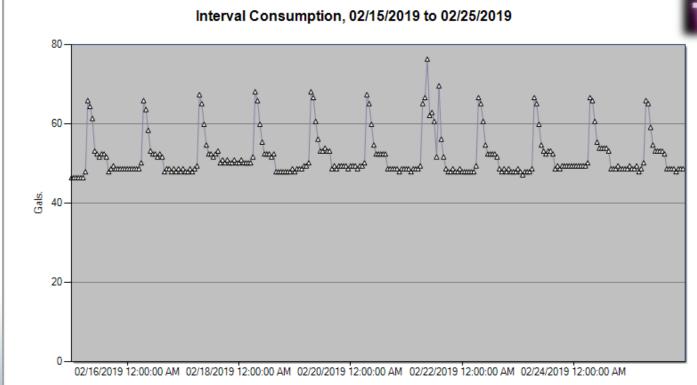










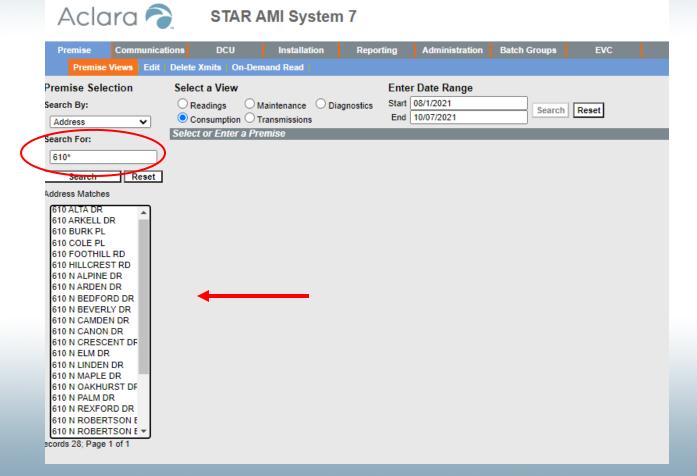




# Getting the Data













City of Beverly Hills \*



Reports

New Report



Interactive Queries



Maps



Lambda Functions



Reports

2020 Allowance vs Usage 35 percent over

Active Published



#### Top 100 continuous usage

This report is a subset from Aclara generate report. This report is delayed by 1 day.

Active Published



#### All services current billing cycle usage

Usage for all city accounts in each of their current billing cycle.

Active Published













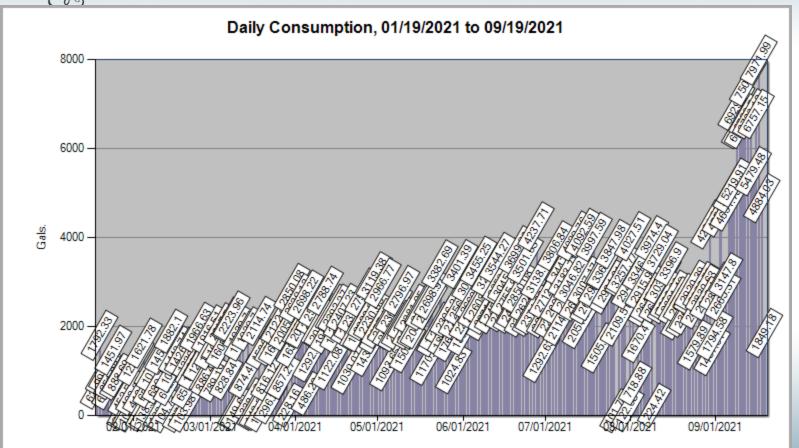




Settings

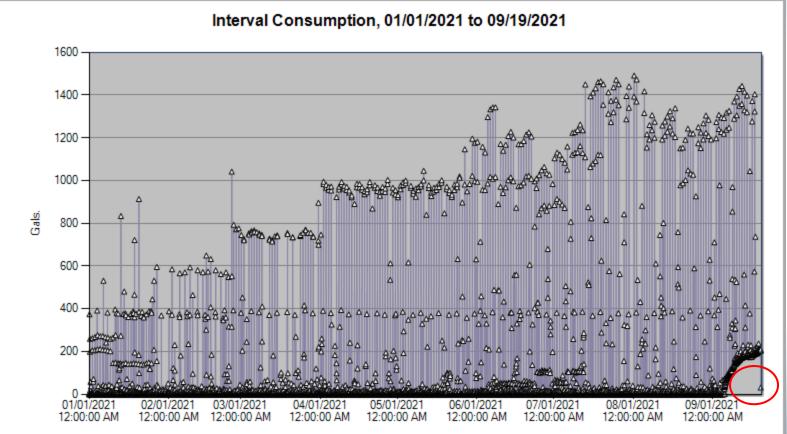


# Leak & Excessive Irrigation?





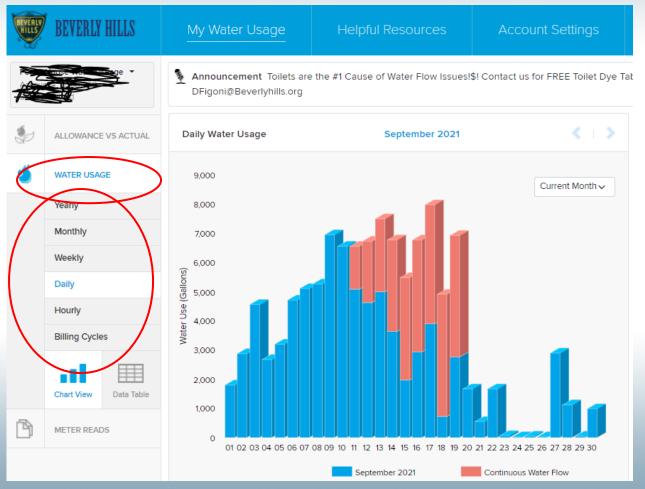
# Leak & Excessive Irrigation?

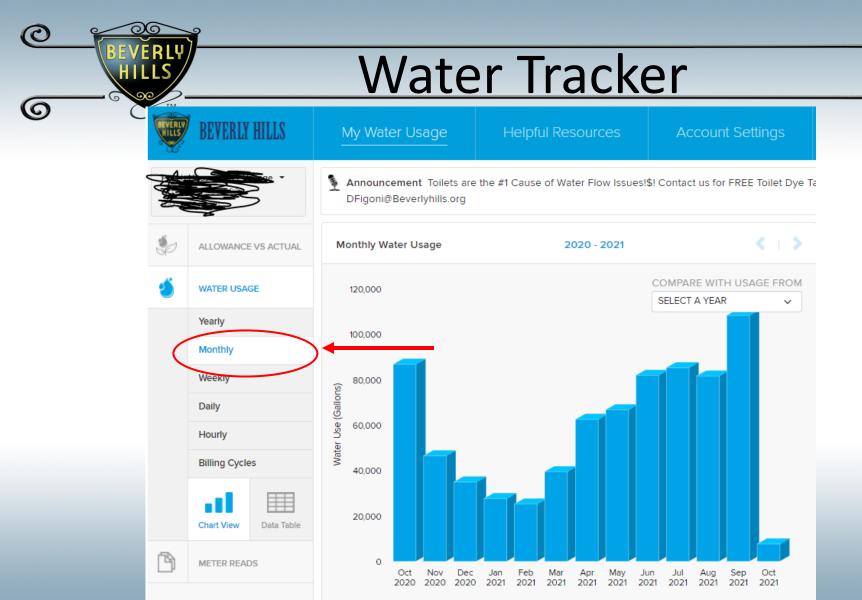






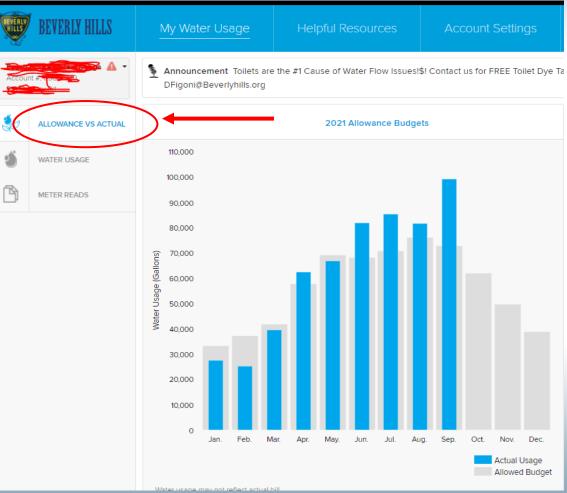








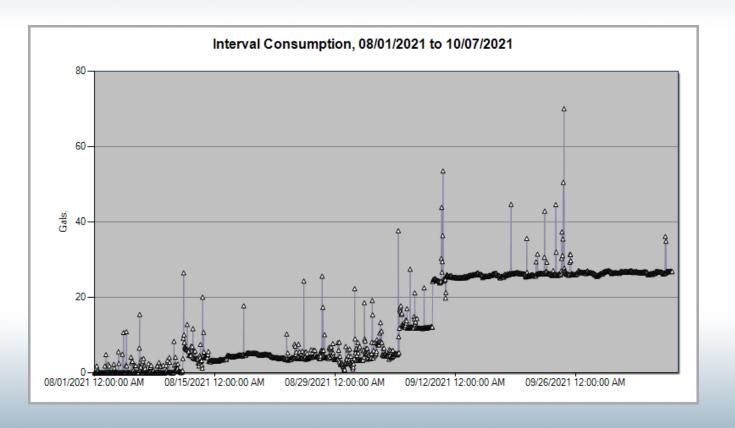








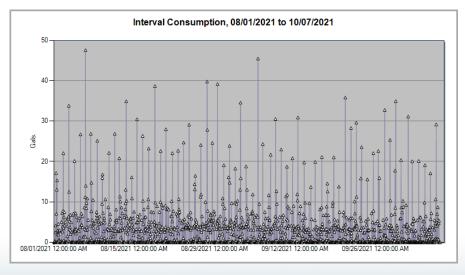


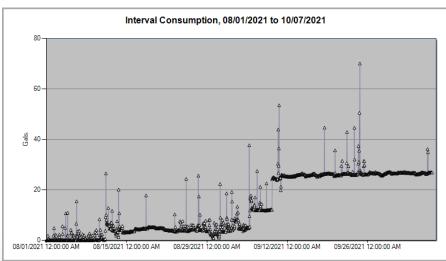






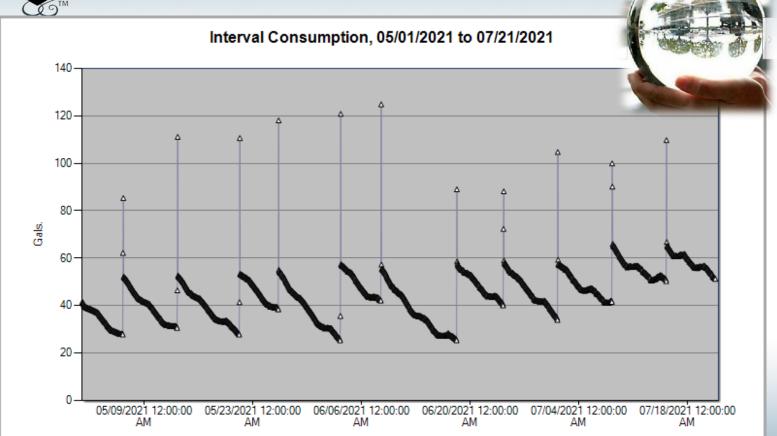








Reading the Charts

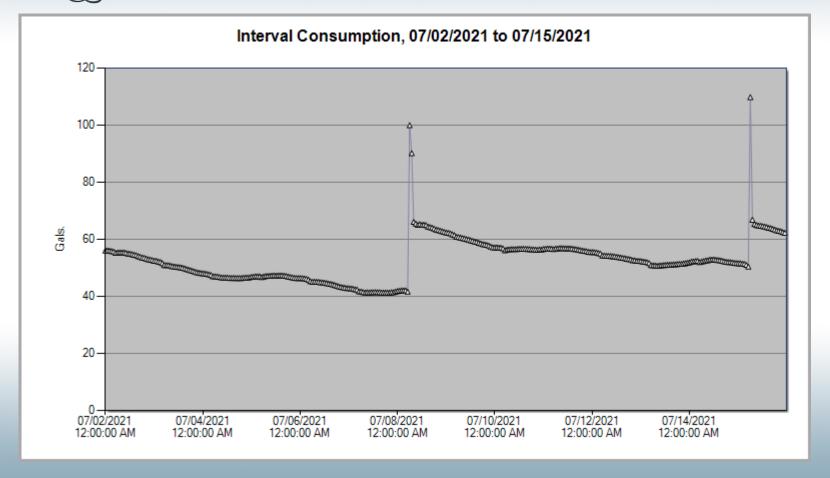




### Reading the Charts



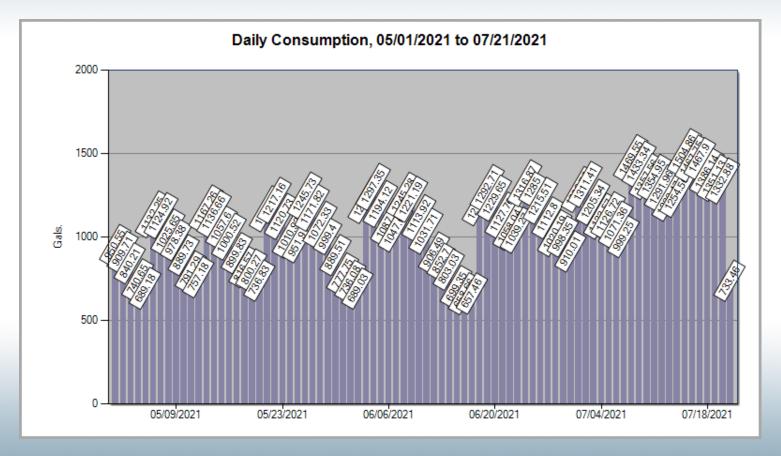








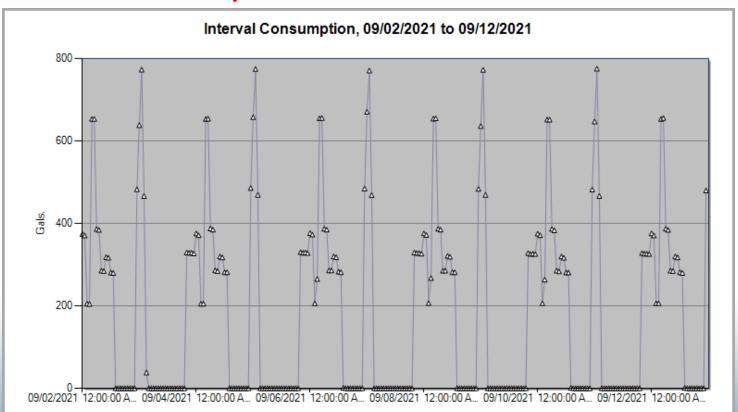


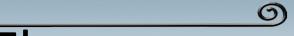




#### How Do You Irrigate?

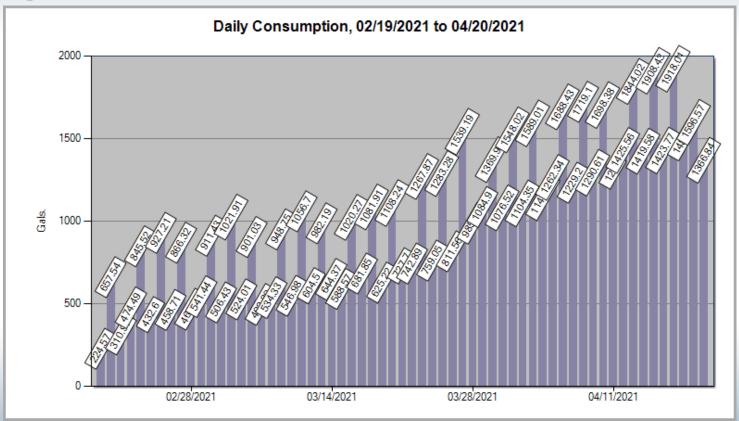
#### Look at patterns and flow rates







# Name That Flow

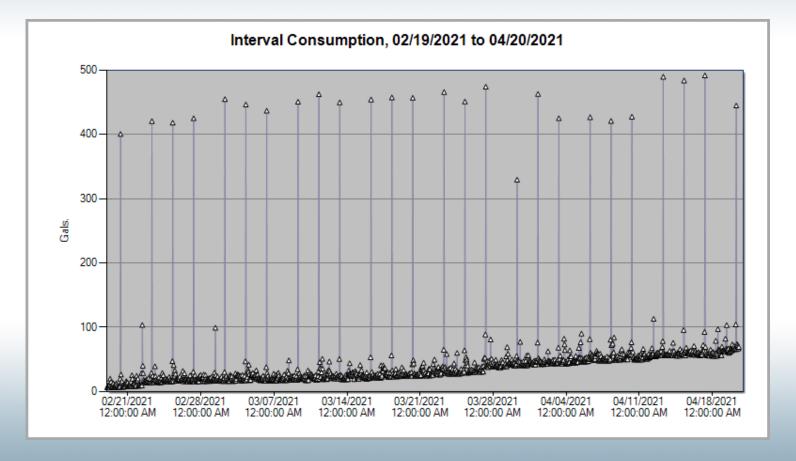




# Pipe or Toilet?









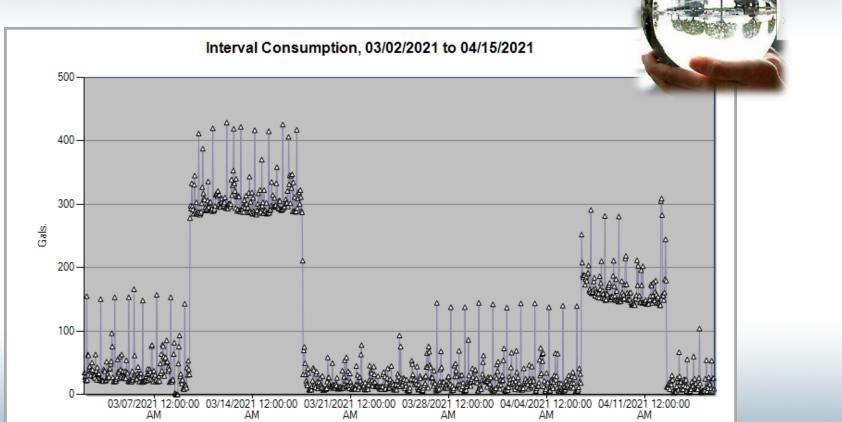


# #1 Water Flow Issue?



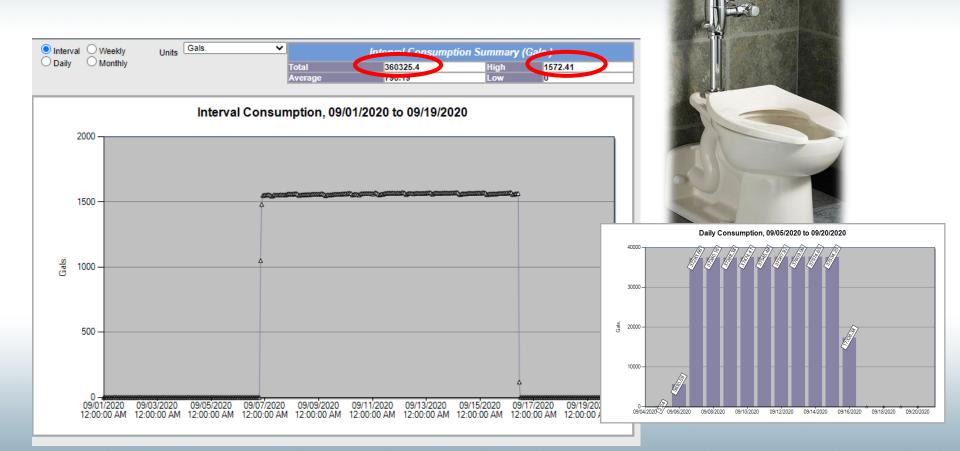


Reading the Charts













#### **COVID Closed Trends**

Restaurants & Hotels



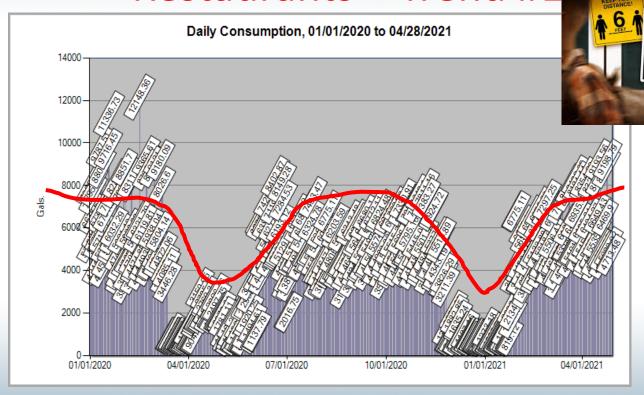




What Was The Impact?



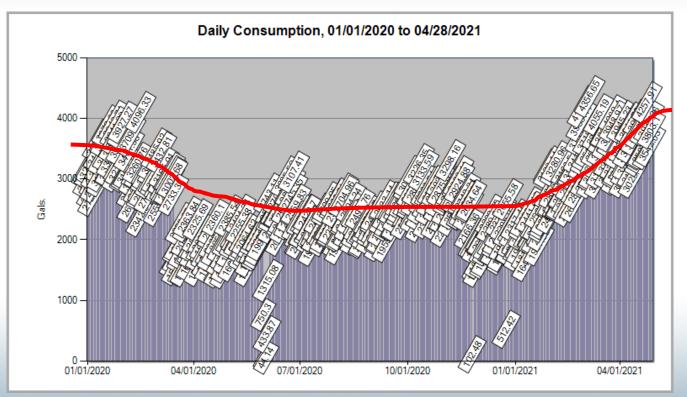
Restaurants - Trend #1



January = Pre-COVID Usage & Dips = COVID Closed



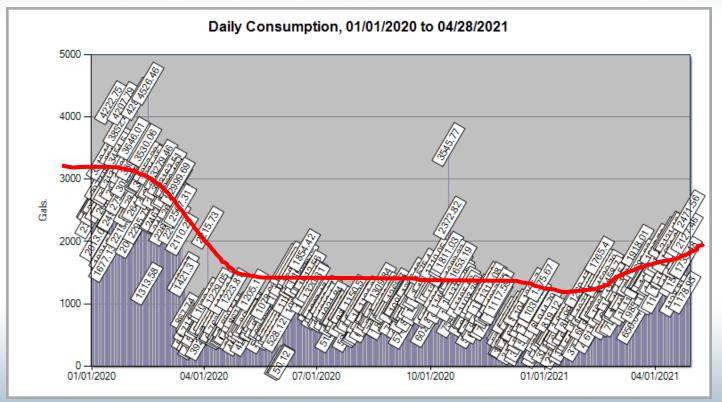
#### Restaurants – Trend #2



Small change in usage – restaurant stayed open.



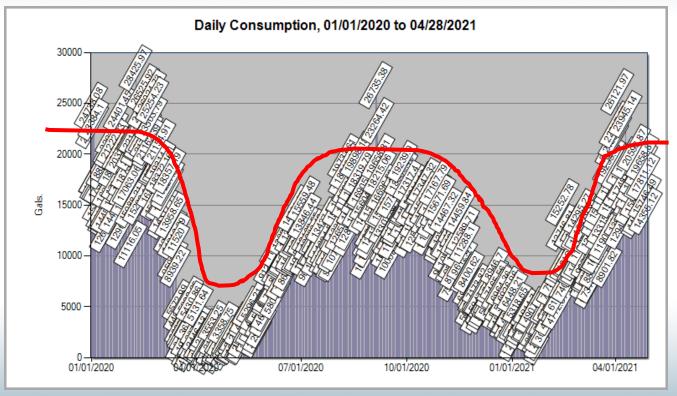
#### Restaurants – Trend #3



January = Pre-COVID Usage, Dip is now picking up



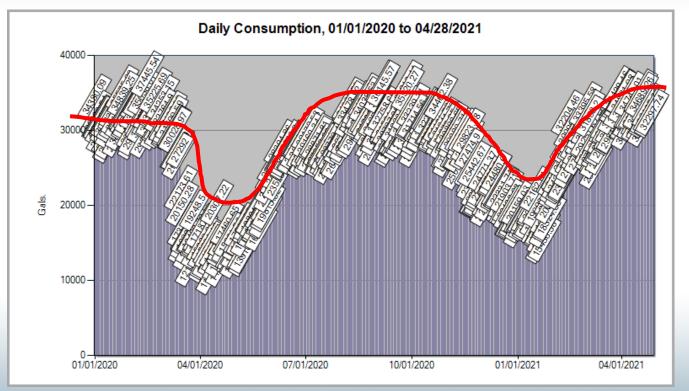
#### Hotels – Trend #1



January = Pre-COVID Usage & Dips = COVID Closed



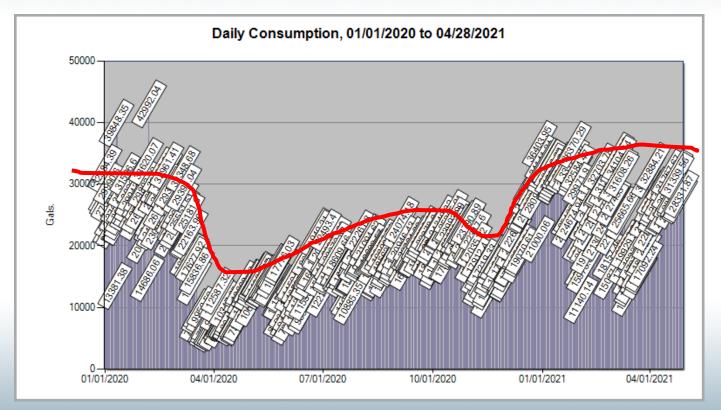
#### Hotels – Trend #1/2



January = Pre-COVID Usage & Dips = COVID Closed



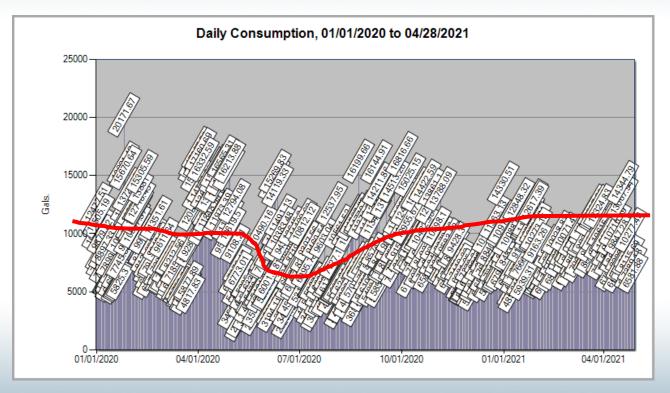
#### Hotels – Trend #2



Only dip in usage during was 1st COVID closed



#### Hotels – Trend #3



No significant change in usage – hotel stayed open.



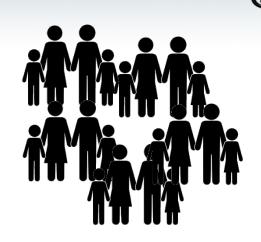




# BFD to Motivate

# I Explain...

- ◆ The water use in gallons
- My "Water's Intuition"
- ◆ The flow patterns
- ♦ The money
- ♦ Higher use options for the water
- ◆ Drought, Environment and Safety

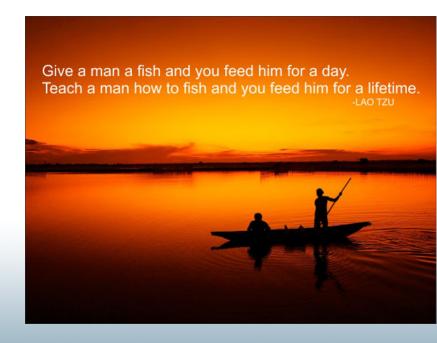






# **How To Create Change**

- Use Your Data with Confidence
- Educate & AssistCustomers to Usethe Data
- ◆ Teach the customer to Fish









Teaching people to use water efficiently









#### Questions?

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