



Water Efficiency Resources & Programs

Lindsey Stuvick, Water Efficiency Manager
November 3, 2021

Moulton Niguel Water District

- Drinking water, wastewater treatment, recycled water
- 7-member Board of Directors
- 170,000 customers
- Recognized locally, statewide, and nationally for innovation, environmental stewardship, customer service, and workforce culture
- Top workplace in Orange County
- AAA credit rated from Fitch and S&P
- Lowest average bill in South Orange County



Water Supply

- Imported Water
 - Diemer Treatment Plant
 - Baker Treatment Plant
- Recycled Water
- Local Reliability Projects



Benefits of Water Efficiency

- Save water, energy, and money
- Reduce runoff & avoid property damage
- Improve quality of local creeks and beaches
- Delay investment in infrastructure and storage
- Keep water rates low



11/30/

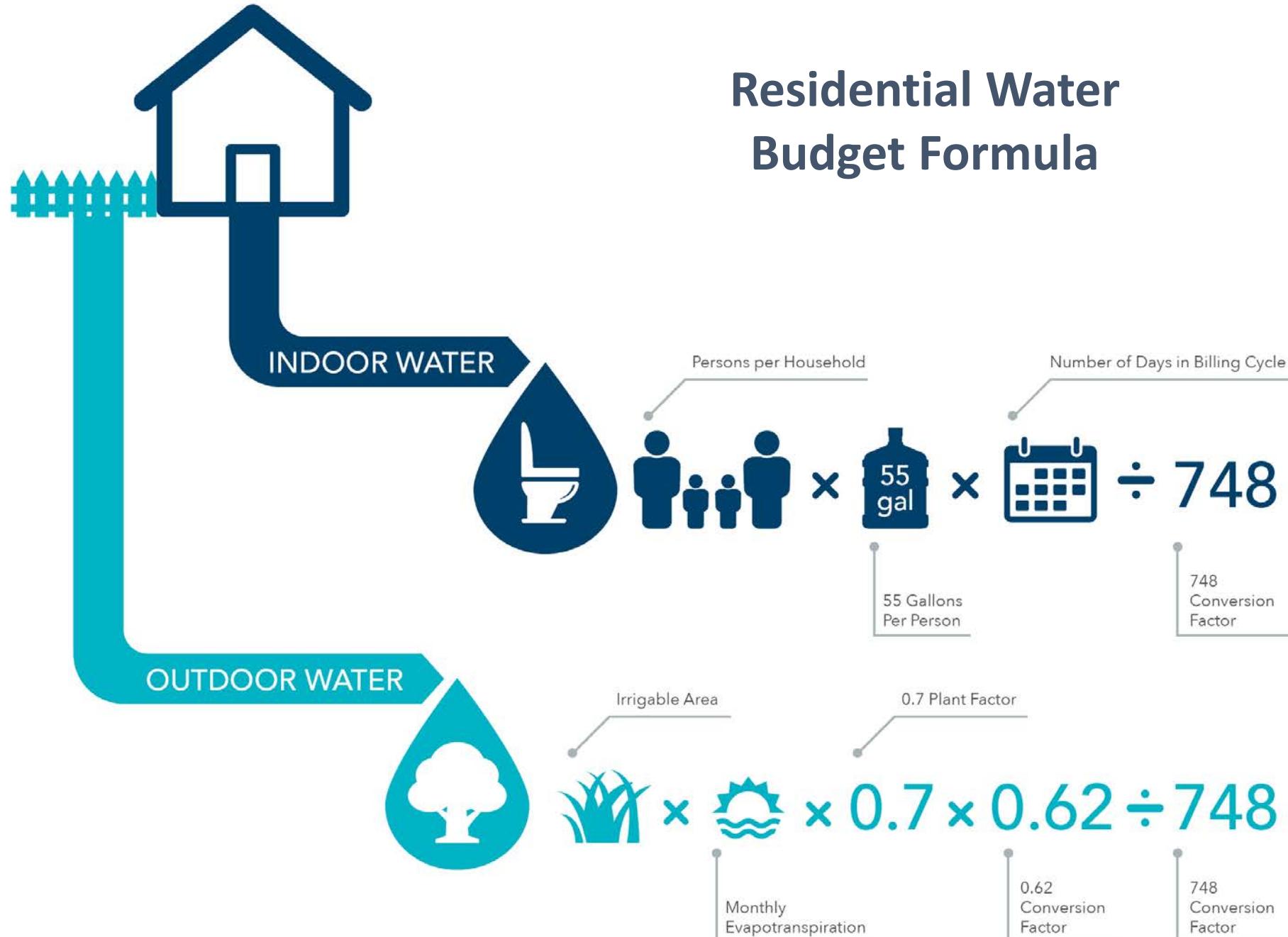
Water Budget Based Rates

- Effective demand management tool
- Science-based metrics calculate budget
- Provides customized water budget for each meter
- Indicates efficient level of monthly water use
- High bills could indicate leaks or overwatering



LIVE WITHIN YOUR
BUDGET

Residential Water Budget Formula



Outdoor Water Budget

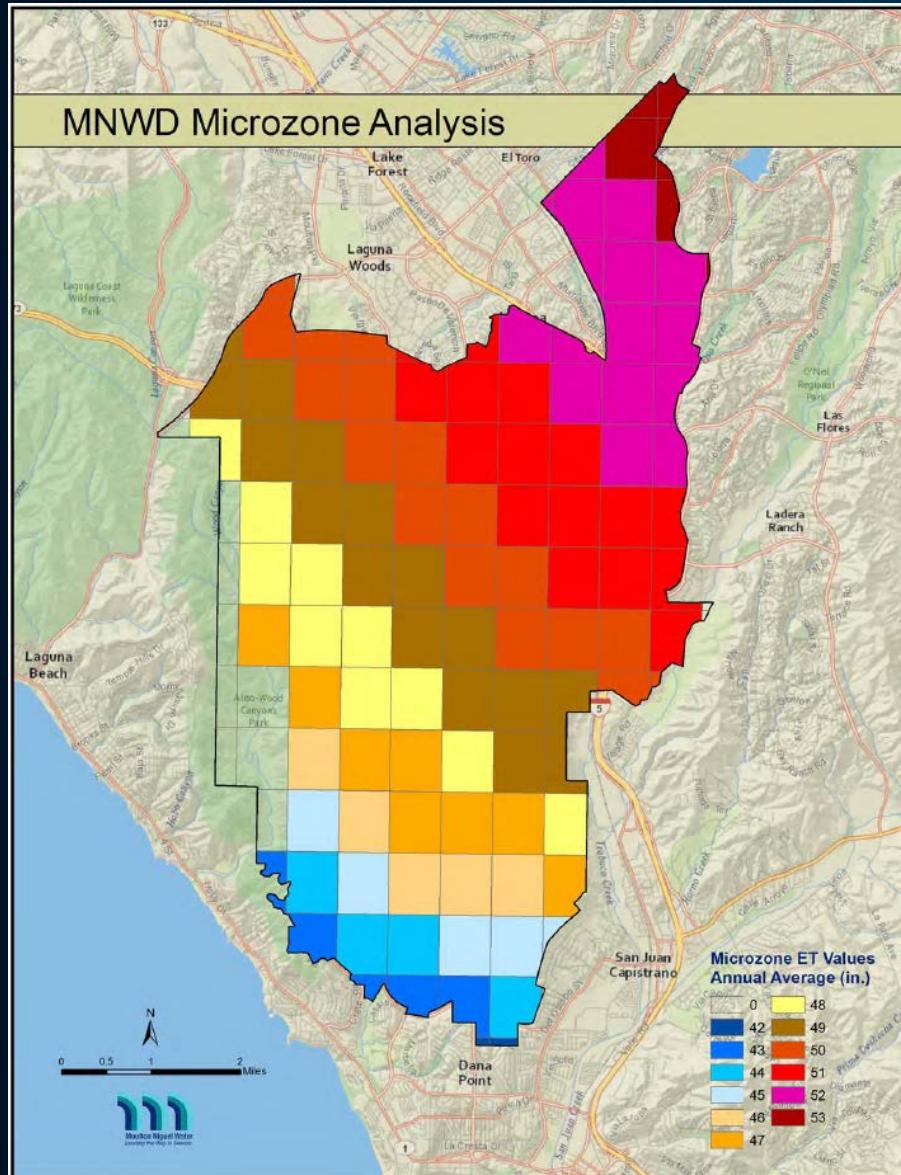
- Outdoor Budget calculation elements:
 - Irrigable Area
 - Evapotranspiration (ET)
 - Plant Factor
 - Conversion Factor(s)
- Variation driven by changes in ET



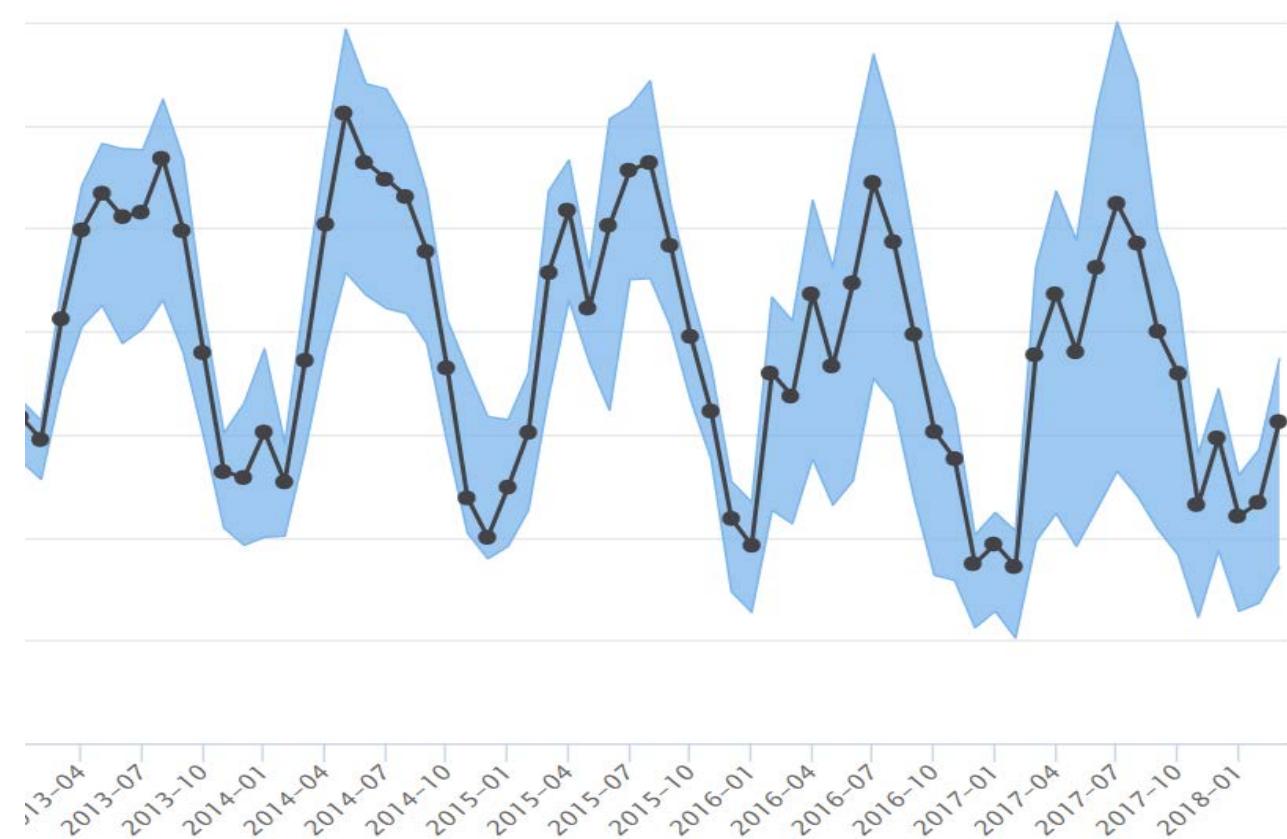
$$\text{Potable Water Budget} = \text{Irrigable Area} \times \text{Monthly Evapotranspiration} \times 0.7 \times 0.62 \div 748$$

Legend:
Irrigable Area (Grass icon)
Monthly Evapotranspiration (Sun and water icon)
0.7 Plant Factor
0.62 Conversion Factor
748 Conversion Factor

ET Over Service Area

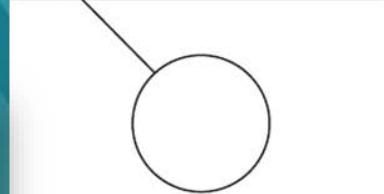


Monthly ET Range by Microzone



District-Wide Smart Meter Rollout!

- 24/7 MyWater MNWD customer portal
- Hourly water use monitoring
- Online bill pay
- Leak alerts!
- Water loss control programs
- Estimated 500 million gallons saved each year!



Smart meters will help proactively detect water leaks, improve operations, and enable customers to monitor their hourly water usage through MyWater MNWD, our online customer portal.

SMART METERS, SMART WATER USE

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Sign Up: mywater.mnwd.com

HOW DO SMART METERS WORK?

A customer's smart meter measures and records their hourly water usage.

The hourly usage data is wirelessly sent to Moulton Niguel Water District.

The water consumption data is updated daily and made available to customers through our customer portal, MyWater MNWD.

Customers can monitor their household's water usage and set up leak alerts.

WHAT'S IN IT FOR ME?

- Receive Alerts About Potential Leaks in Your Home
- Monitor Your Hourly Water Usage
- Avoid Unintentional High Water Consumption

HOW DO I ACCESS THIS INFORMATION?

- Sign up for our **FREE** customer portal, MyWater MNWD at mywater.mnwd.com or download the app.
- Sign up to receive leak alerts. For step-by-step instructions visit mnwd.com/smart-meters

WHAT CAN I EXPECT? . . .

- The District has hired Ferguson Waterworks to accelerate our program and provide smart meter technology to all customers by 2022.
- Within the next few weeks, a Ferguson Waterworks technician will be in your neighborhood to install an upgraded radio to your current water meter that will connect to the District's network.
 - This process is generally complete within 15 minutes.
 - You are not required to be home during the installation.
 - Your water service will continue and there is no expected interruption of water service during installation.
- We would greatly appreciate it if you can ensure your water meter box is clear of any clutter or landscaping before we make the upgrade.
- You will be notified via door hanger the day your installation has been completed.

Note: For your safety and security, every Moulton Niguel employee and contractor carries a picture ID card, will be wearing a company uniform, will arrive in a company vehicle, and will never ask to enter your home.

WHAT'S IN IT FOR YOU?

- Receive Alerts About Potential Leaks in Your Home
- Access Your Hourly Water Usage
- Avoid Unintentional High Water Consumption

REGISTER FOR MYWATER MNWD

To receive leak alerts and monitor your hourly water usage, visit our customer portal online at mywater.mnwd.com or download the app through the App Store (on your Apple device) or Google Play (on your Android device).

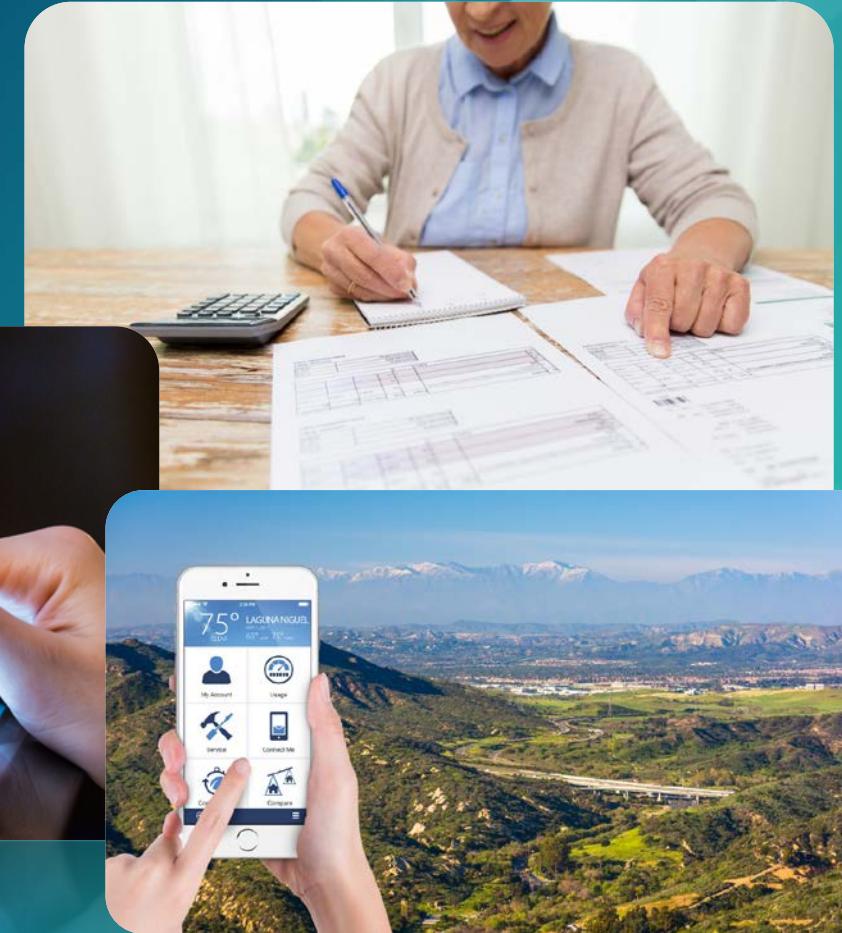
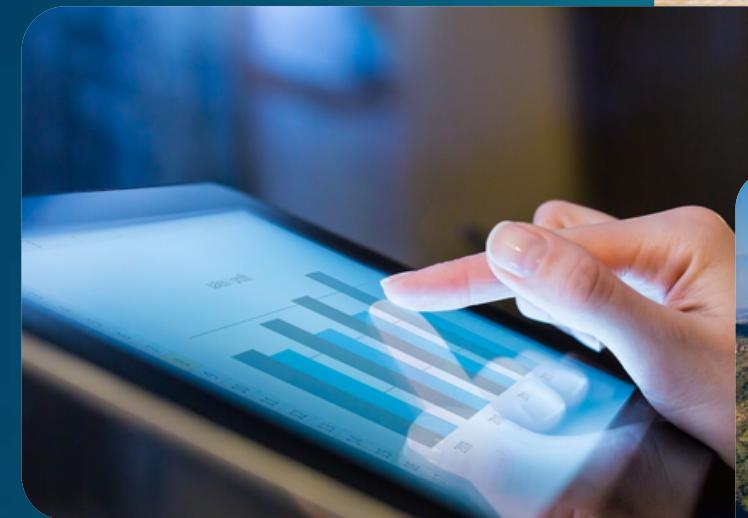
Note: To sign up, you will need your account number, zip code, and a valid email address.

LEARN HOW TO SIGN UP FOR LEAK ALERTS



Enterprise View Features

- Tool for commercial, multi-family, & irrigation customers
- Group multiple accounts into portfolios
- View aggregate water use
- Enables multiple bill pay
- Assign guest access to multiple users



Landscape & Irrigation Surveys

- Home Savings Surveys for Residents
 - Free landscape and irrigation system survey
- H2O Pro Water Management Program
 - Review irrigation system components
 - Identify water conservation measures
 - Estimate potential water & money savings
 - Water management pilot program



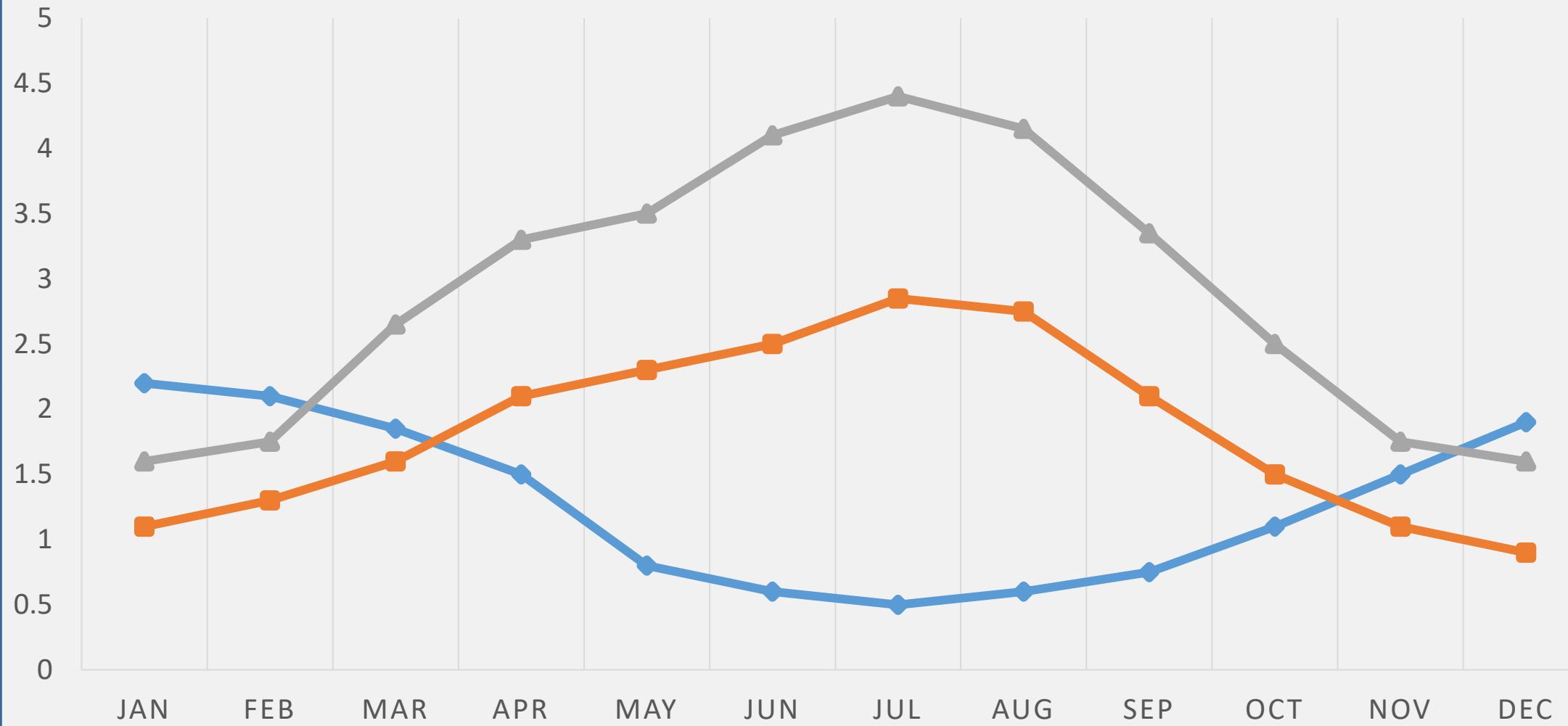
Turf Removal

- Goal: sustainable landscapes
- Replace turfgrass with drought-tolerant or native plants
- Prioritize areas that are non-functional, unsafe to mow
- Up to \$4 per sq. ft.
- Requires Pre- and Post-Inspection



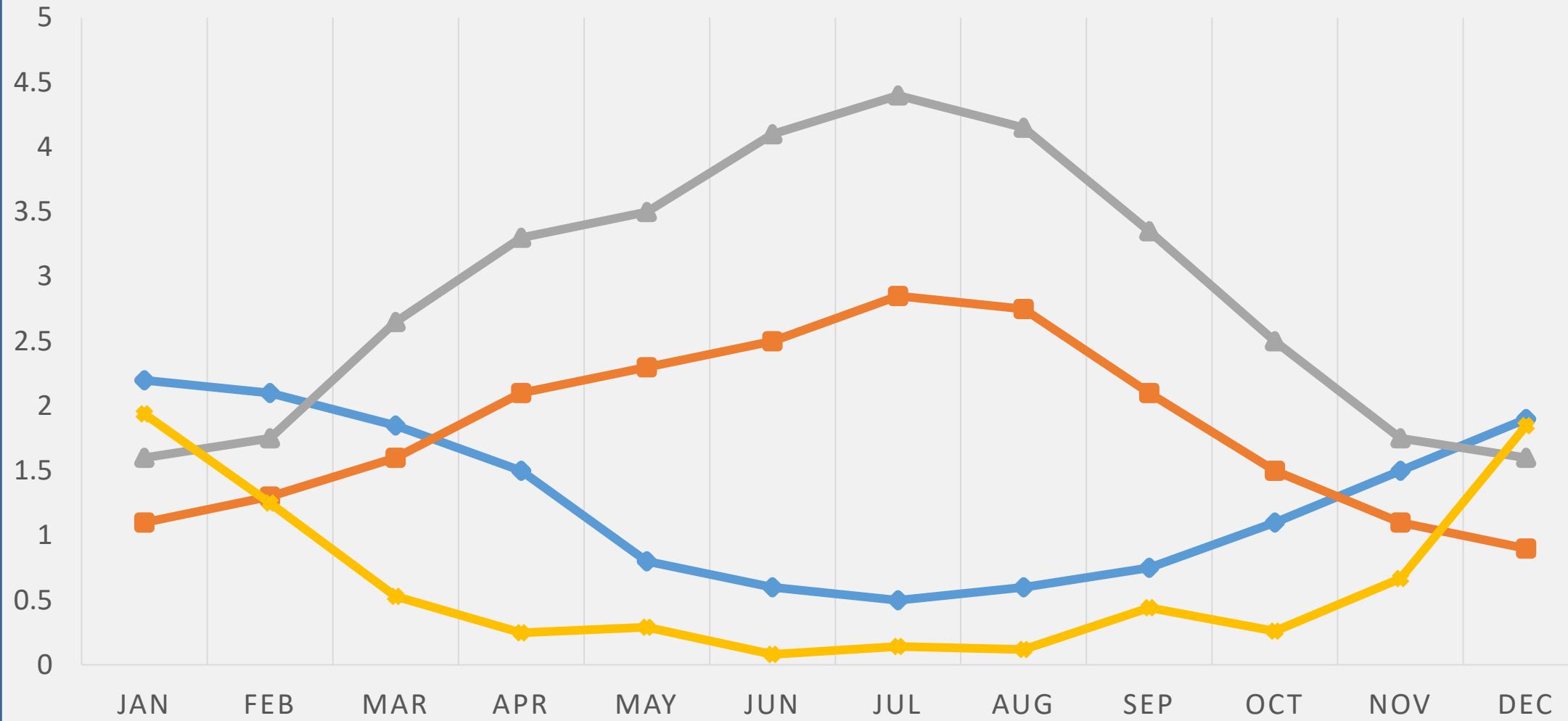
SEASONAL PLANT WATER NEEDS (INCHES)

CA Natives Drought Tolerant Grass (Warm Season)



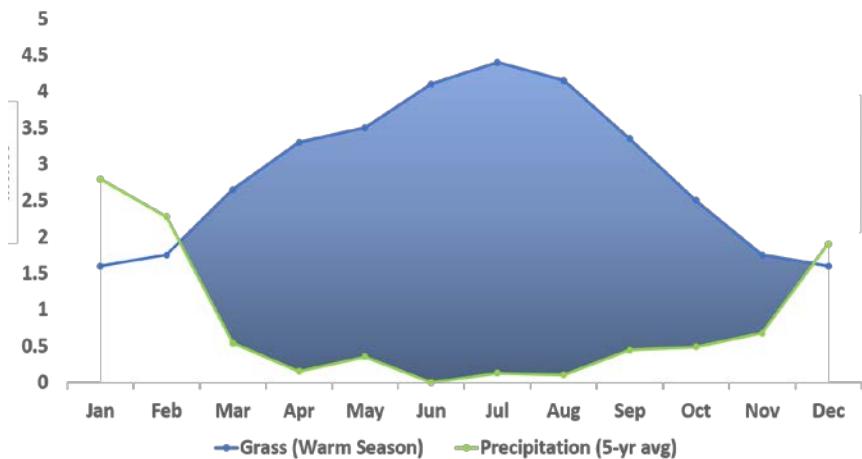
SEASONAL PLANT WATER NEEDS (INCHES)

CA Natives Drought Tolerant Grass (Warm Season) Precipitation

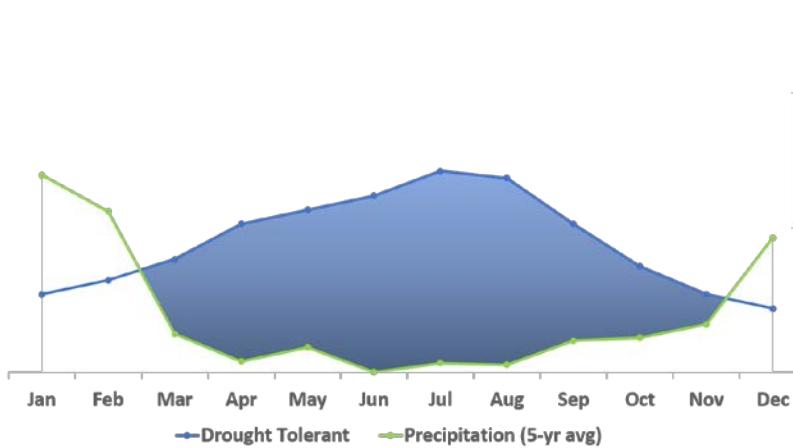


Comparison of Supplemental Water Needs

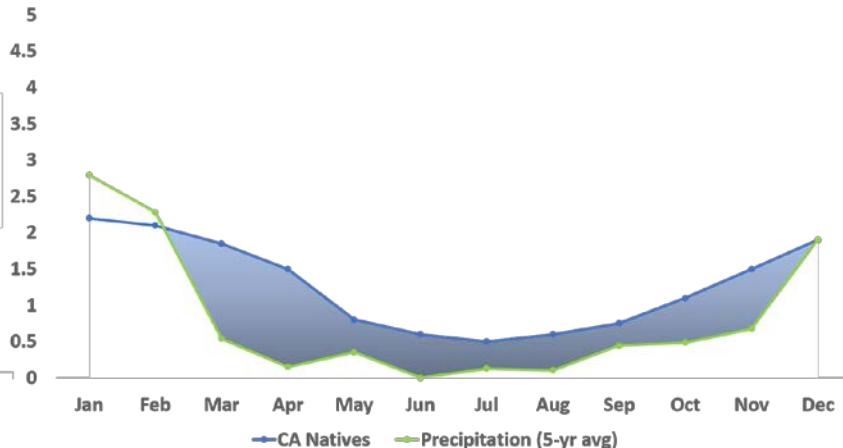
Warm Season Turf - Supplemental Water



Drought Tolerant Plants - Supplemental Water



CA Native Plants - Supplemental Water



- Bermuda
- St. Augustine
- Buffalo grass

- Cosmos
- Euryops
- Hibiscus

- Cleveland sage
- California fuchsia
- Wooly bluecurls

Irrigation System Upgrades

Spray to Drip Conversion



- Improves irrigation efficiency and coverage
- Decrease runoff
- Rebate starts at 70¢/SqFt

Rotating Sprinkler Nozzles



- Improves irrigation efficiency and coverage
- Decrease runoff
- Rebate starts at \$6/nozzle

Weather Based Irrigation Controllers

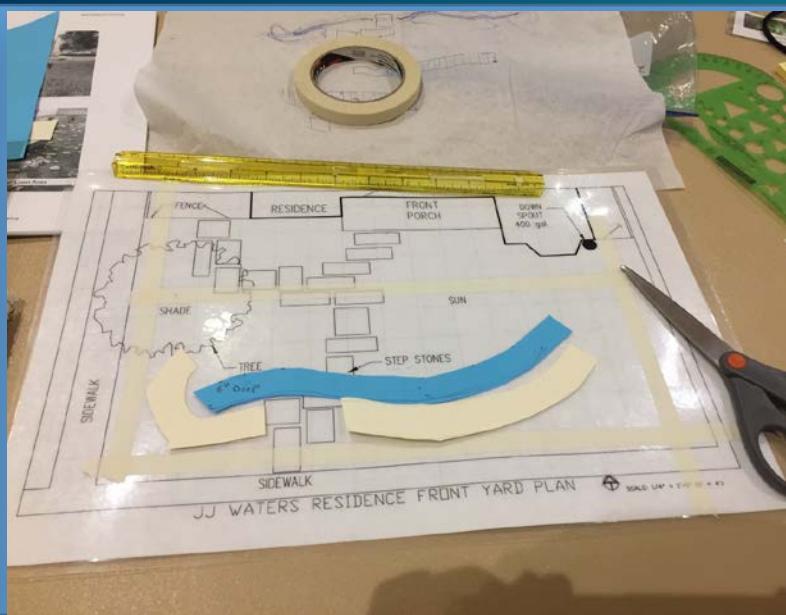


- Automatically adjusts based on local weather
- Schedule building capacity*
- Decrease runoff
- Rebate starts at \$75/station



Professional Landscaper Training

- Qualified Water Efficient Landscaper Certification (now virtual)
- Certified Water Manager, CLCA (now virtual)
- Bilingual Training Institute Professional Landscaper Training
- Watershed Wise Landscape Professional
- Certified Landscape Irrigation Auditor



Recycled Water

- Offsets potable consumption
- Meets over 20% of total demands
- BMP – Irrigate to a budget
- Avoid overwatering
- Drought Resilient Supply



H2O for HOAs

- 5th annual, first ever virtual and in-person event
- HOA board members, property managers & landscape professionals
- Broadcast live via Zoom Webinar
- 80 in-person, 35 virtual attendees
- Video & presentations available on our website



PLEASE JOIN US!

TUESDAY
OCT 19

8AM - 12NOON

JOIN ONLINE OR IN PERSON

Lake Forest Community Center
100 Civic Center Dr, Lake Forest,
CA 92630

A FREE education and networking event for HOA board members, property managers, and landscapers. Includes free breakfast and an opportunity drawing!

Register at bit.ly/H2OforHOAs
#DroughtResiliency #H2OforHOAs



Event Speakers



Transforming Landscapes -
Better Choices for a Better Future
Kay Havens, Board Director,
El Toro Water District



Wildfire Risk Reduction:
Vegetation Management
Emilio Fuentes, Fire Inspector,
Orange County Fire Authority



WUE and You! Top 5 Water Saving Programs
for your HOA
Justin Finch, Senior Water Efficiency
Specialist, Moulton Niguel Water District



Introduction to Weather Based
Irrigation Controllers
Tony Lopez, Account Manager, Ewing
Irrigation and Landscape Supply



Protecting Your Watershed
Devin Slaven, Environmental Manager,
City of Lake Forest

Panel: Path to Drought Resiliency



Moderator:
Joone Lopez, General Manager,
Moulton Niguel Water District



Panelists:
Jodie Cook, Horticulture and Landscape
Designer, Jodie Cook Designs



David Silva, Certification Manager,
California Landscape Contractors Association



Danny Smith, Director of Water Management,
Park West Landscape

Participating Partners

Cities/County: Aliso Viejo, Dana Point, Laguna Beach, Laguna Hills, Laguna Niguel, Laguna Woods, Lake Forest, Mission Viejo, Rancho Santa Margarita, San Clemente, San Juan Capistrano, and Unincorporated Orange County

Water Districts: El Toro, Laguna Beach County, Moulton Niguel, Santa Margarita, and South Coast

H2O for HOA – Regional Support



Thank You!

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Connect With Us @MNWDWater

