

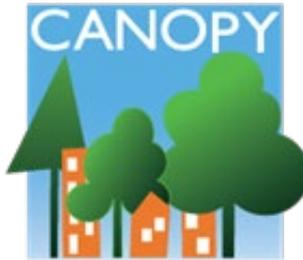
Save Our Water Save Our Trees

Ahorre Nuestra Aqua/Salve Nuestros Arboles

Kristin Bowman, EBMUD Water Conservation Representative

Rolando Gonzalez, EBMUD Water Conservation Representative

Gabrielle Trudeau, Canopy Community Forestry Coordinator

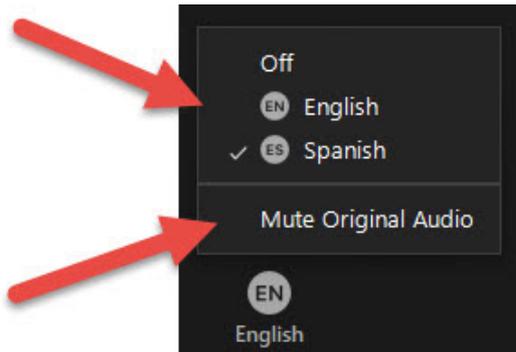


Español o Inglés



Si desea escuchar la presentación en español, seleccione y haga clic en el botón del lenguaje en la quiere oír la lección.

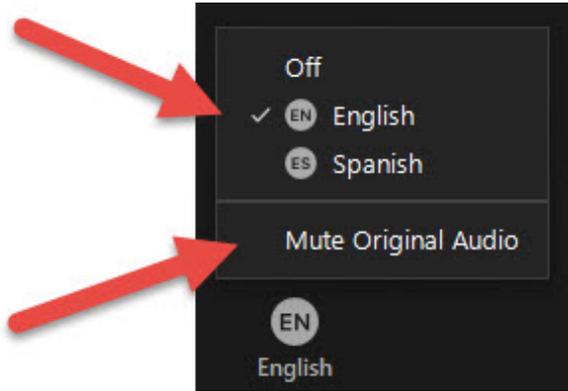
Luego seleccione “Spanish” (Español)



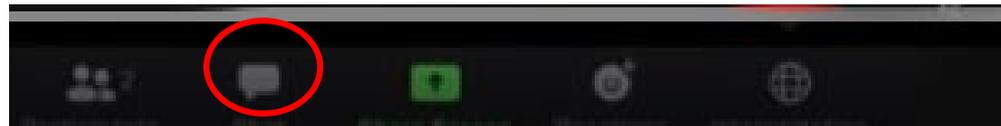
Si selecciona español, escuchará al intérprete como orador principal, pero escuchará al presentador en inglés en el fondo a un volumen más bajo.

Si solo desea escuchar en español, haga clic en el botón “Mute Original Audio” (Silenciar audio original) y solo escuchara en español.

Español o Inglés



Si no elige un idioma, automáticamente se escuchara la presentación en inglés.

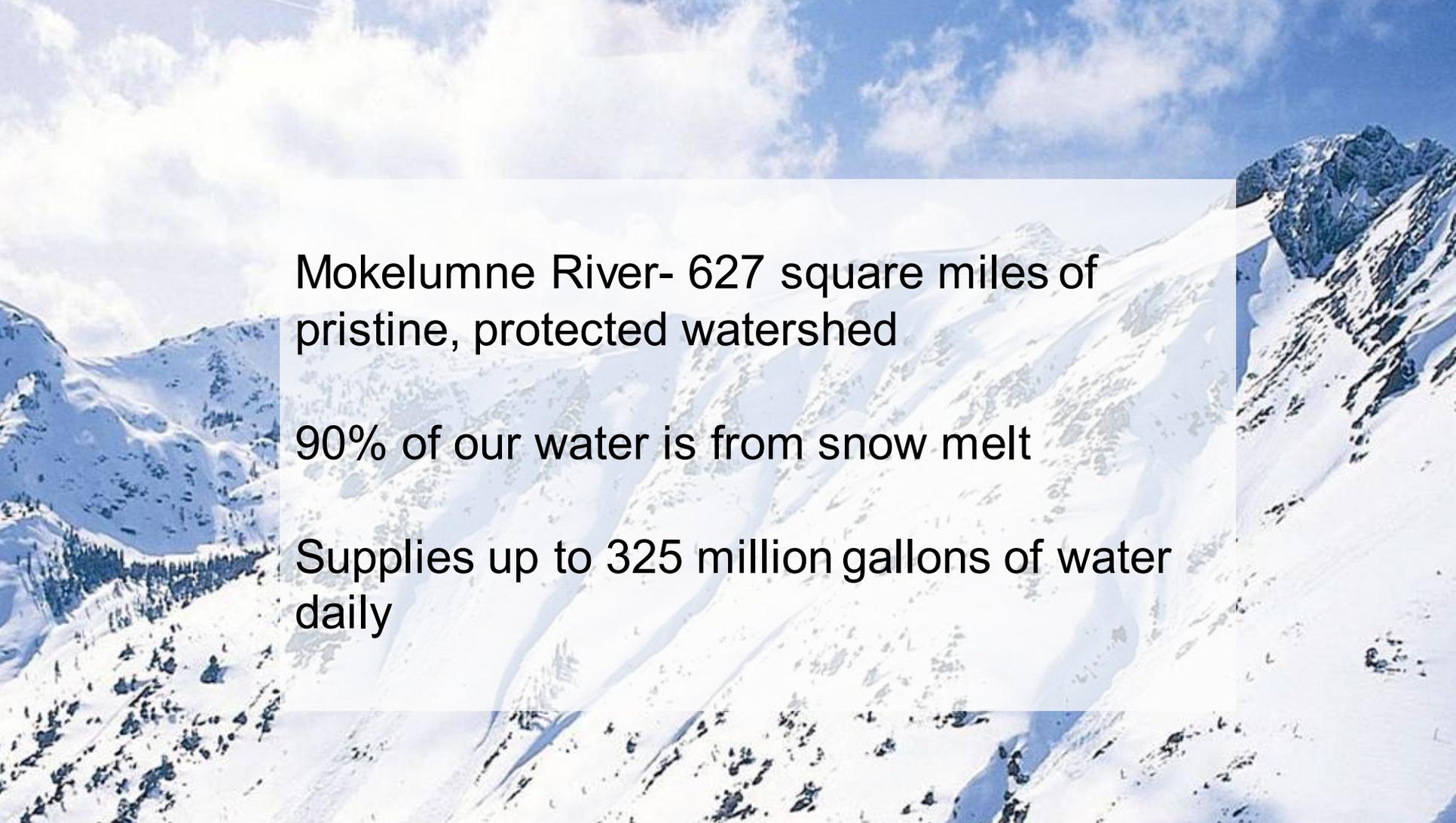


Si desea hacer una pregunta, escríbala en el chat y el intérprete hará la pregunta.

Overview

1. EBMUD water supply
1. Drought update
2. What can you do to save water?
3. Benefits of Trees
4. Your Tree Needs
5. Irrigation Do's and Don't's
6. Young Tree Care
7. Mulching Tips
8. Transitioning Trees after Lawn Removal
9. Drought Tolerant Trees
10. Tree Resources
11. EBMUD Rebates and Coupons
12. Q and A



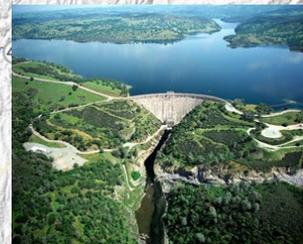


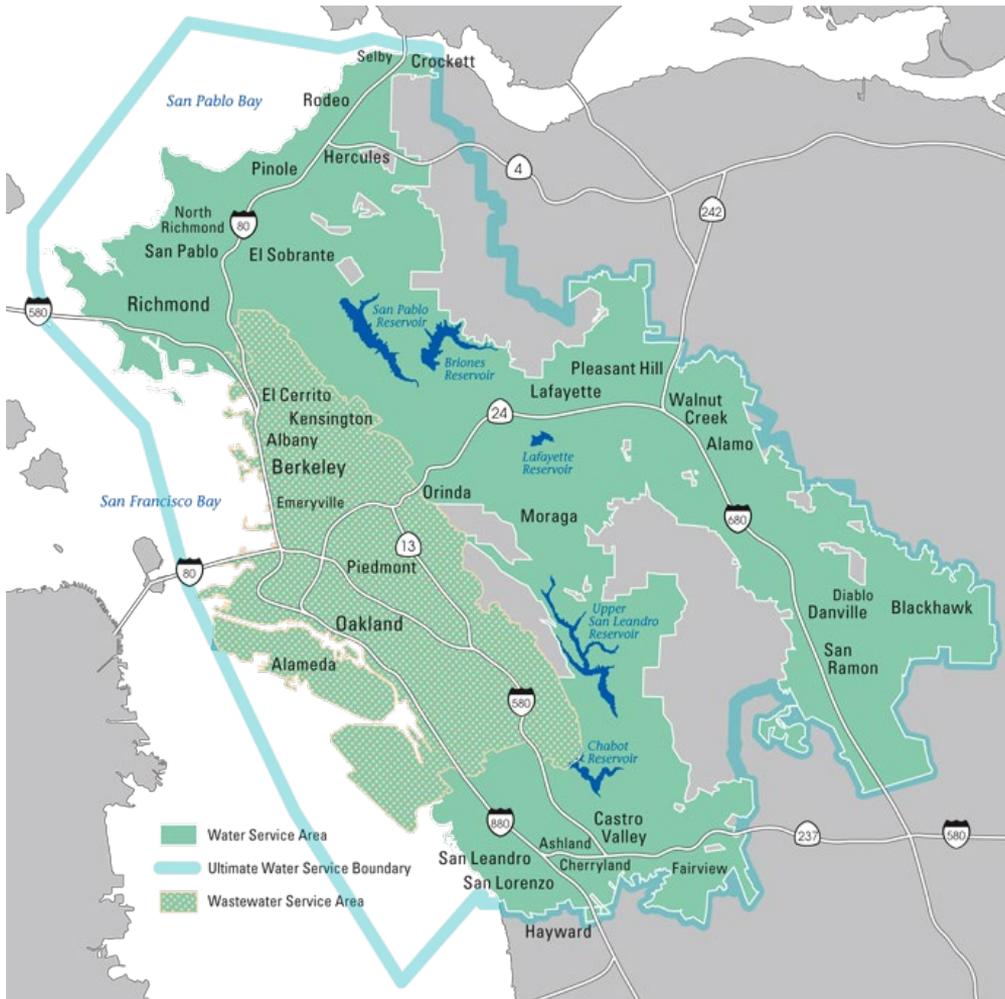
Mokelumne River- 627 square miles of
pristine, protected watershed

90% of our water is from snow melt

Supplies up to 325 million gallons of water
daily

EBMUD WATER SUPPLY





Water and Wastewater Service Areas

1.4 million water customers

740,000 wastewater customers

>4,200 miles of pipe

400,000 meters

Drought

East Bay precipitation – driest winter on record

Mokelumne River watershed – second driest winter on record

Currently in a Stage 1 Drought- Voluntary 10% reduction

Monthly comparison 2021 vs 2020 through October 10

| | Gross Water Production (mgd) | | | | | | | | | | | |
|-----------------|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 | Jun-21 | Jul-21 | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 |
| Actual | 126 | 126 | 136 | 165 | 182 | 192 | 193 | 193 | 187 | 179 | - | - |
| WOH 2021 | 99 | 99 | 103 | 115 | 123 | 127 | 125 | 126 | 124 | 123 | - | - |
| EOH 2021 | 27 | 27 | 33 | 50 | 59 | 65 | 68 | 67 | 63 | 56 | - | - |
| Last Yr | 123 | 141 | 143 | 148 | 175 | 201 | 210 | 211 | 200 | 189 | - | - |
| WHO 2020 | 98 | 108 | 109 | 109 | 121 | 134 | 137 | 137 | 133 | 127 | - | - |
| EOH 2020 | 25 | 33 | 34 | 39 | 54 | 67 | 73 | 74 | 67 | 62 | - | - |
| % Change | 2% | -11% | -5% | 11% | 4% | -4% | -8% | -9% | -6% | -5% | - | - |

What can you do?

Find and fix leaks

Install efficient devices such as showerheads and sink aerators

5-minute showers

Reduce water-use in the landscape



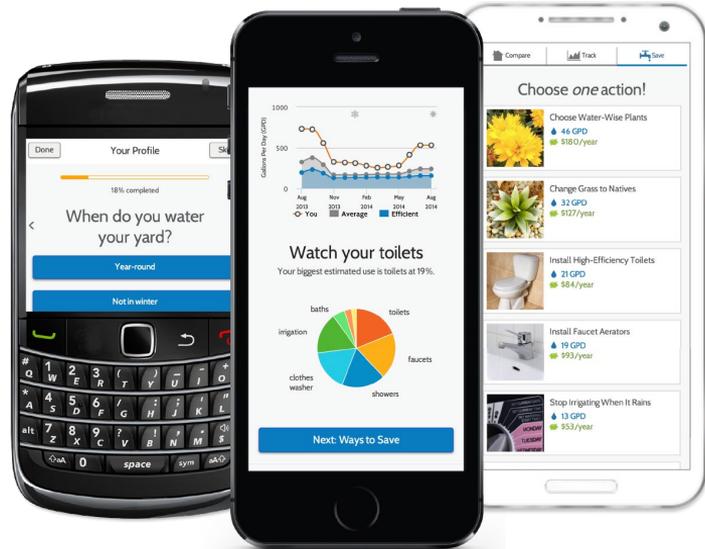
My Water Report Portal

View water use, pay your bill, find recommendations all in one place

Set leak alerts

Track seasonal irrigation

Ebmud.com/mywaterinfo



CANOPY



Save Our Water and Our Trees



October 14, 2021

Gabrielle Trudeau

Community Forestry Coordinator

ISA Certified Arborist

Canopy

gabrielle@canopy.org

CANOPY



Save Our Water and Our Trees



Canopy's best tips for water-wise tree care and how we engage and educate communities to protect our urban forests and safeguard our water resources.

CANOPY



Save Our Water, Save Our Trees



Trees are the most valuable element of our green infrastructure because of the benefits they provide and the investment they represent.

**Save Our Water
and Our Trees!**

saveourwater.com/trees

**Know your trees,
know their needs**



Know your trees, know their needs

Different trees have different water and care requirements. To determine how much and how often your tree needs water, consider:

- **Species.** Look up your tree species' watering needs on [Canopy's tree library](#). For help identifying your tree, [contact Canopy](#) or use a resource like the [Urban Tree Key](#) or Matt Ritter's Book: [A Californian's Guide to the Trees Among Us](#).
- **Age.** Young trees require more frequent watering (but less volume of water) than mature trees. See [caring for young trees](#), for care instructions for trees less than 5 years old and [Canopy's Watering Guidelines](#) for mature trees and species-specific watering needs.

Know your trees, know their needs

- **Health.** A stressed tree may require more water than a vital tree. If your tree is in poor condition, consider hiring a **certified arborist**.
- **Soil type.** Water needs will also be affected by your soil type. For example, clay soil does not accept water easily, but holds on to water longer.
- **Other site conditions.** Factors like sun exposure, surrounding plants, and nearby water sources also influence watering needs.

Irrigation - Dos and Don'ts



Irrigation - Do's

- Water a tree once a week for the first year
- Practice deep water basin watering to establish deep roots (10-15 gallons a week)
- Water your tree during a drought
- Use Canopy's Tree Watering Guidelines



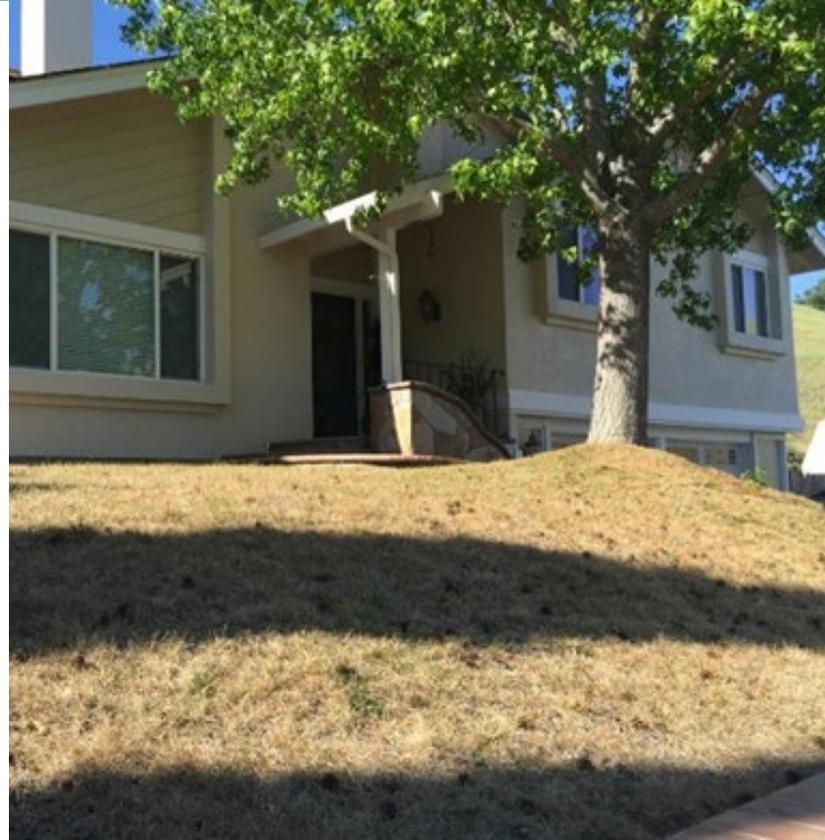
Irrigation - Don'ts

Stop watering your tree when you stop watering your lawn

Stop watering your tree when we are in a drought

Just rely on sprinklers for establishing a tree

Water established native oaks in the summer
(*Native species thrive under two conditions: cold and wet, and hot and dry)



Young Tree Care



Regularly check your tree for...



- **Flattened watering basin**
- **Consider the dripline**

Regularly check your tree for...



- **Compacted soil**
- **Conflicting weeds**

Mulch to conserve moisture

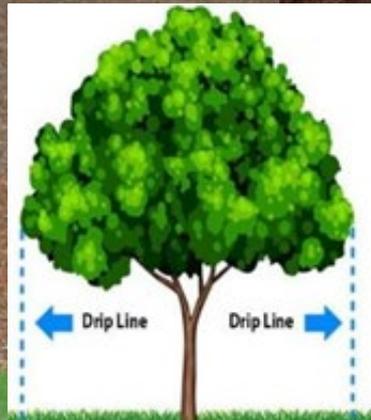


Mulch to conserve moisture



- Properly applied mulch:
 - Insulates the roots from extreme temperatures
 - Slows soil moisture evaporation
 - Reduces water use
 - Suppresses weeds
 - Reduces soil compaction
 - Feeds nutrients into the soil as the mulch breaks down
 - Provides a buffer, protecting the tree from mowers and soil compaction

Mulch to conserve moisture

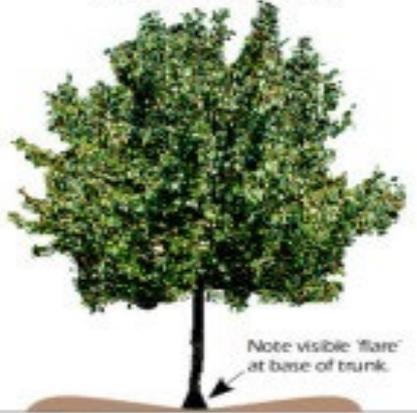


Mulching tips

Mulch Volcano - BAD



Proper Mulching



- Use organic matter such as wood chips, with or without leaf matter. Trees prefer wood chip mulch and the “duff” created by their own leaves
- Apply mulch layer 3-5 inches deep (or 1 inch deep if using spray irrigation), extending at least as far as the drip line
- **No mulch volcanoes!**
- If weeds persist, place a layer of newspaper or cardboard, or a biodegradable weed cloth fabric under the mulch
- Replenish mulch layer every spring

Remove Your Lawn And Help Trees Transition



Help your tree transition...

Deciding to remove your lawn? Consider the following options:

- **Substitute with a drought-tolerant native grass** to conserve water yet still maintain the landscape (*ex. Tall red fescue mix*)
- **Lawn Conversion Rebates**
- **Make a watering plan for your tree** by using the *Canopy's Tree Watering Guidelines*
- **Mulch the area around your trees**
- **Consider installing drip irrigation**

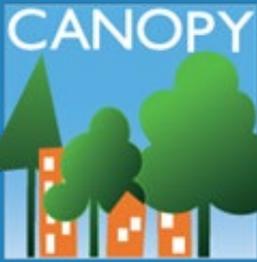


Tree Watering Guidelines



Plant Drought-Tolerant Trees





Establishing Resilient/ Drought-Tolerant Trees

- **Selecting an appropriate species**
- **Research tree before planting:**
 - **Ex: SelecTree or Canopy Tree Library**
 - **Plan for maximum height and width**
- **Plant correctly**
 - [How to Plant a Tree Video](#)
 - **Volunteer opportunities**
- **Right tree, right place**
 - **Land use**
 - **Utility conflicts**



Save Our Water, Save Our Trees

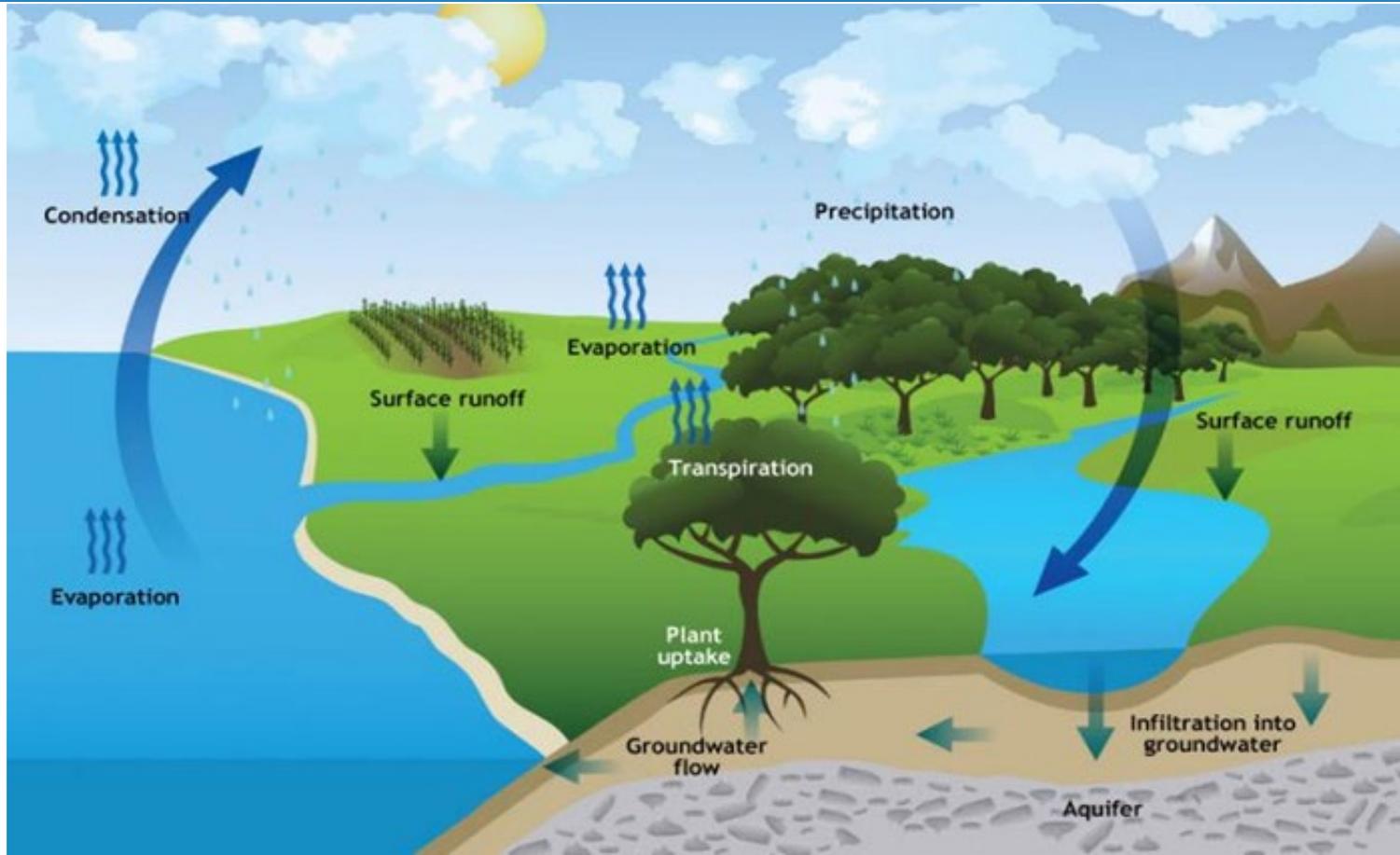


**Save Our Water
and Our Trees!**

saveourwater.com/trees

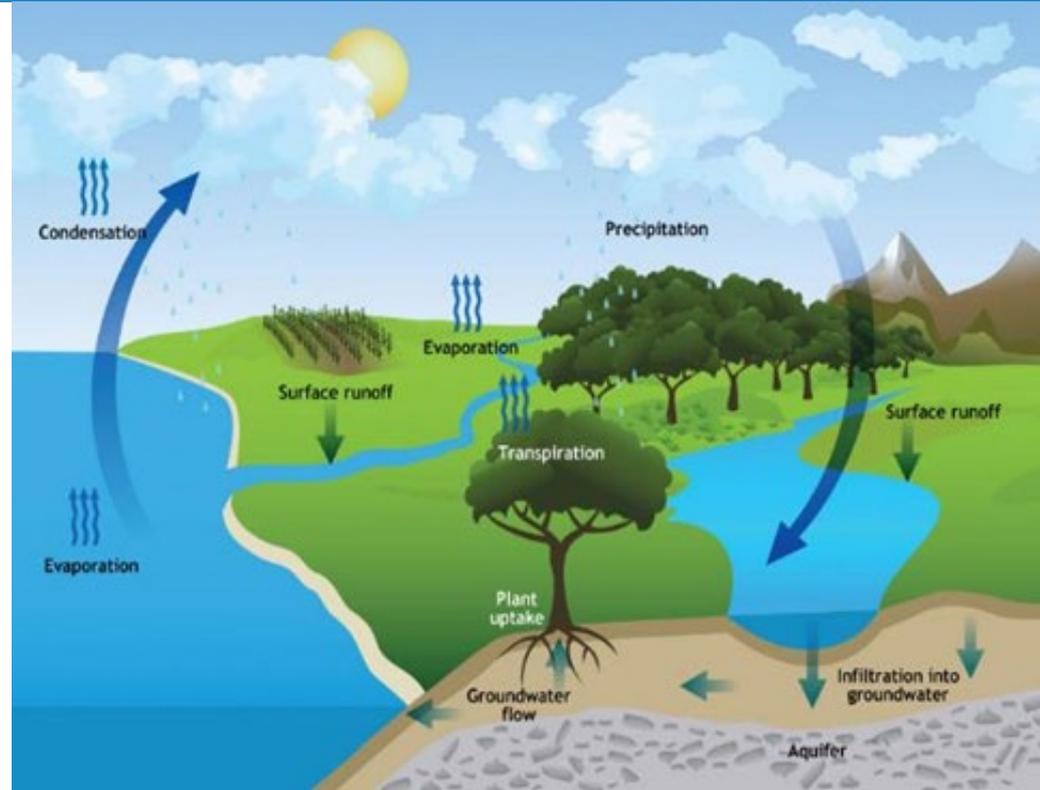
- Trees combat climate change
- Trees appreciate in value over time
- Don't let trees suffer during a drought
- Trees are “worth” the water, invest in trees
- Trees are a nature-based solution to Climate Change

How Trees Save Water



How Trees Save Water

- Manage rainwater in storm events
- Improve water quality
- Slow water down, helps recharge aquifers
- Drought-tolerance aids water conservation



Summary - Maximize tree and landscaping water conservation

- Plant the right tree in the right place
- Plant drought-tolerant species
- Incorporate more trees in your landscape for improved water quality
- Apply mulch!



Community Engagement and Education



- Online resources
- In-person training, engaging residents in watering their tree
- Target Audiences and messaging
 - Tree Stewards
 - “Is Your Tree Thirsty?” Banner and Brochure
 - Watering reminders through TreEnews

Community Resources: Canopy.org



Tree Library



Benefits of Trees



Hire an Arborist

Community Resources

- **Canopy's Tree Watering Guidelines:**
<https://canopy.org/tree-info/caring-for-trees/trees-and-water/watering-guidelines/>
- **Canopy's Resources for Lawn Conversion:**
 - Learn more about protecting trees during turf conversion.
 - EBMUD residential and commercial rebates
- **Canopy's Tree Library** - <https://canopy.org/tree-info/canopy-tree-library/>
- **Canopy's Tree Hotline** - <https://canopy.org/contact-us-2/>

Community Resources

- Save Our Water Save Our Trees Brochure:
<https://canopy.org/wp-content/uploads/Canopy-Save-Our-Water-and-Trees-Brochure.pdf>
- Canopy's TreEnews: for watering reminders
<https://canopy.org/get-involved/join-our-mailing-list/>
- Canopy's Presents How To Plant A Tree Video
<https://canopy.org/tree-info/planting-trees/#techniques>
- SelecTree: (online tree database)
<https://selectree.calpoly.edu/search/>





EBMUD Landscape Rebates

\$0.75/sf

up to \$2,000 for residential properties

(up to \$15,000 for commercial properties)

A lush garden scene featuring a winding stone path. The path is composed of irregular, light-colored stones set in a bed of green grass and small plants. To the left, there are tall, thin grasses and a dense cluster of small pink flowers. To the right, there are more green plants, including what appears to be a lavender bush with purple flowers. The background is filled with various green shrubs and trees, creating a dense, verdant atmosphere. The overall lighting is soft and natural, suggesting a daytime setting.

New - Super Landscape Rebate

\$1.50/sf

Pick three out of four

Compost

Sheet mulch

50% CA natives

Plant in cool season

(residential and commercial properties)

Mulch and Compost Coupons

- Provided by local nurseries
- Coupons for bulk or bags



Mulch

A gardener's best friend

Summary

1. Drought Update - 10% voluntary reduction, 5 mins showers, fix leaks, upgrade aerators, reduce outdoor water use, My Water Report
2. Benefits of Trees – shade, improve water quality, conserve water, reduce air pollutants, beautify neighborhood-
3. Your Tree Needs – species, soil, age, health
4. Irrigation Do's and Don't' – water deeply and infrequently, don't water oaks in the summer
5. Young Tree Care – maintain basin, weed, mulch, water more frequently with less volume than mature trees
6. Mulching Tips – to the drip line, not around the trunk
7. Transitioning Trees after Lawn Removal – Create a tree watering plan, put trees on separate station
8. Drought Tolerant Trees – Canopy Tree Library
9. Tree Resources – Canopy tree watering guide, planting videos, etc.
10. EBMUD Rebates and Mulch and Compost Coupons – up to \$2000 for residential properties and \$15,000 for commercial



Thank you!



Gabrielle Trudeau
gabrielle@canopy.org
canopy.org
650-964-6110



Rolando.Gonzalez@ebmud.com

Kristin.Bowman@ebmud.com