

2021 Greywater Showcase

City of Davis Water Updates

Water Updates

- ▶ The 2020 Water Quality Report is now available online

- City's drinking water met all State and Federal drinking water standards

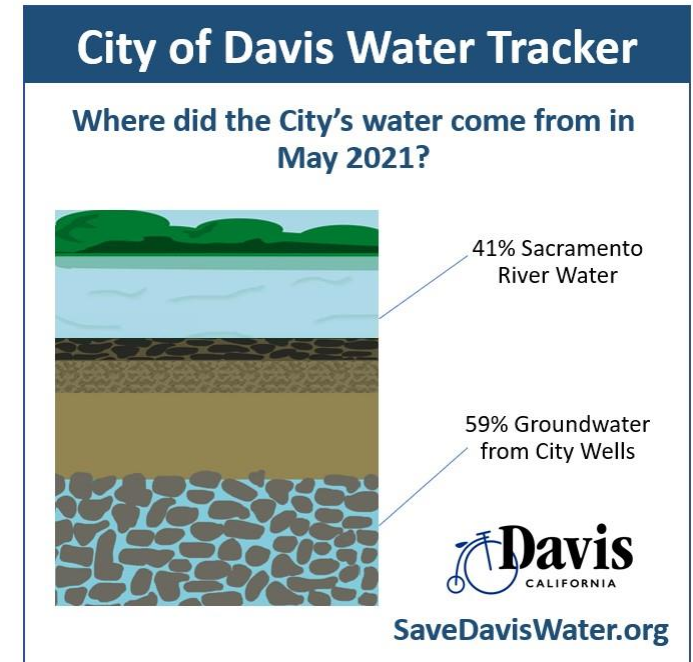


- ▶ Water usage in April and May of 2021 has increased in comparison to 2019 and 2020

- Increased indoor water use
 - Work from home
 - COVID – hand washing and sanitation
- Two consecutive dry years with very little rain

Current Dry Year Conditions

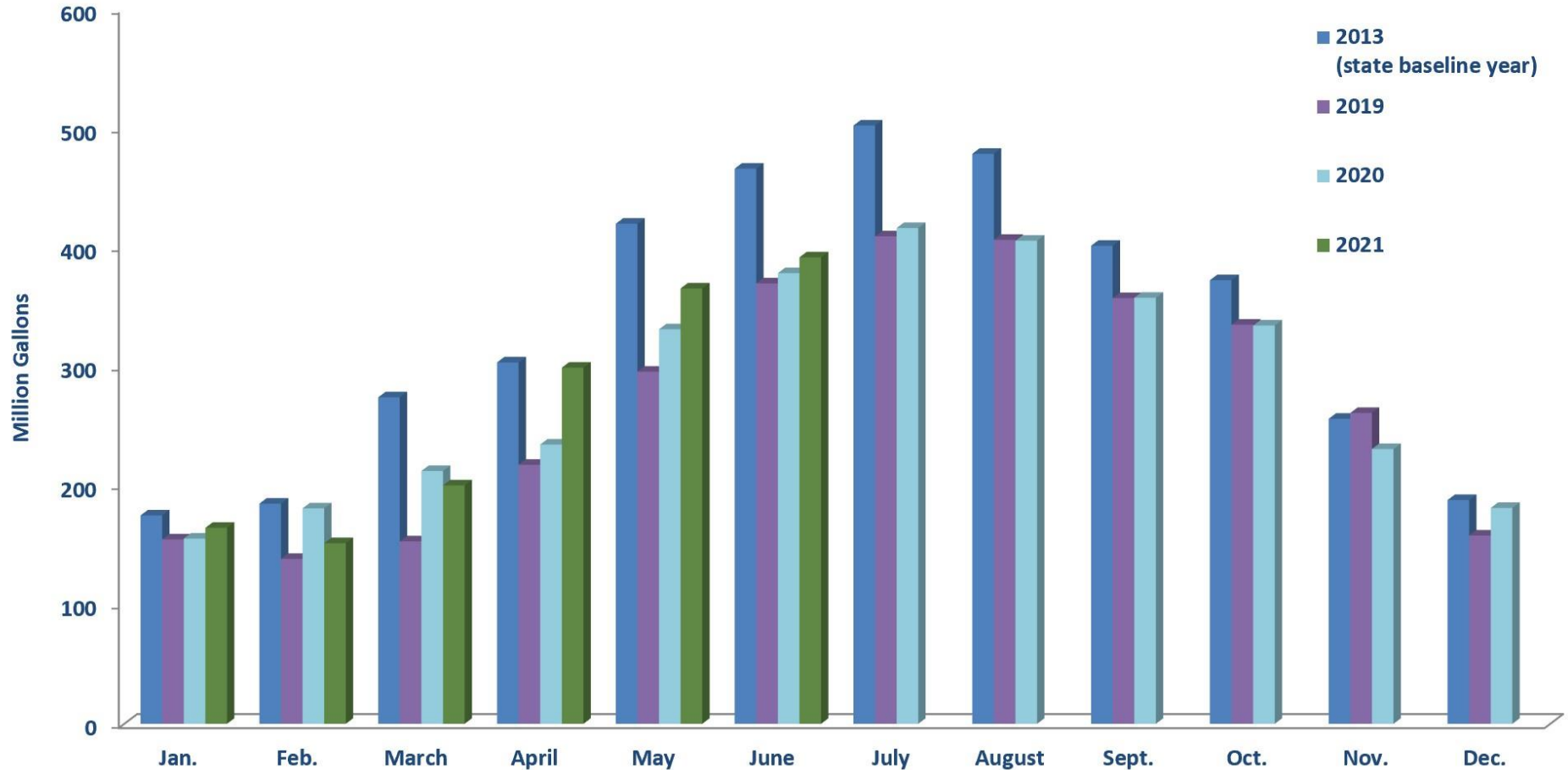
- ▶ Term 91 (curtailment of surface water supplies) went into effect on April 30, 2021
 - Less surface water can be diverted by WDCWA
 - Often happens in the summer months
- ▶ City relies more heavily on groundwater supplies in summer
 - Conjunctive-use system
 - Groundwater primarily from deep aquifer wells



Conservation Update

- ▶ City of Davis water production was 15% less in 2020 than in 2013 (State baseline year)
- ▶ The City has surpassed our 20% by 2020 gallons per capita day (gpcd) State target of 172 gpcd
 - For 2020, the City gpcd was 132
 - Surpassed the Natural Resource Commission goal of 134 gpcd
- ▶ Weather patterns may change with dry and wet years but the City is committed to looking at long-term efficiency

Davis Water Conservation Tracker



AquaHawk

- ▶ AquaHawk is the City of Davis' online customer water use portal
- ▶ Ability to set usage alerts is one of the primary benefits
 - View daily and hourly water use
 - Allows users to spot and repair leaks as quickly as possible
- ▶ Over 6,200 users currently registered



State-Wide 15% Voluntary Water Use Reduction

- ▶ On July 8, 2021 Governor called for a voluntary 15% reduction in water use from 2020 levels
- ▶ Recognized that during 2012–2016 drought, Californians took permanent actions that continue to yield benefits
- ▶ Local water suppliers and communities have taken steps to improve supplies and drought resilience
- ▶ Actions mentioned in the Executive Order include:
 - Irrigate landscapes more efficiently
 - Run washers and dishwashers only when full
 - Find and fix leaks
 - Keep showers under 5 minutes
 - Use a shut-off nozzle on hoses
 - Take cars to commercial car washes that use recycled water

Water Supplies During Dry Years and Drought

- ▶ Webpages added to the City's website:
 - Water Supplies During Dry Years & Drought
 - Drought Information & Water Use Restrictions

The screenshot shows the City of Davis website with the following content:

- Header:** Davis California logo, navigation links (Contact Us, City Council, Agendas, Jobs, Staff Directory, Calendar, Social Media), and a search bar.
- Navigation Bar:** ABOUT DAVIS, CITY HALL, RESIDENTS, BUSINESS, VISITORS, HOW DO IT?, SUSTAINABILITY.
- Breadcrumbs:** City Hall » Public Works Utilities and Operations » Water » Water Conservation
- Section Header:** WATER SUPPLIES DURING DRY YEARS AND DROUGHT
- Text Content:**

Where Do the City's Water Supplies Come From?

The City of Davis owns and operates a conjunctive potable water system, a mixture of surface water from the Sacramento River with groundwater supplied by City deep aquifer wells. Up to 10.2 million gallons per day (mgd) of surface water is delivered to the City by the Woodland Davis Clean Water Agency (WDCWA) and the City's five deep aquifer wells are capable of delivering up to 15 mgd of groundwater. In addition to the five deep aquifer wells, the City also operates four intermediate aquifer wells for use during peak water demands or system emergencies. These wells can deliver up to 9 mgd. As designed, operation of the water system makes it a priority to deliver surface water first, and also using deep aquifer groundwater to meet system demands, which results in a resilient water supply for the community.
- Figure:** **City of Davis Water Tracker**
Where did the City's water come from in May 2021?
A pie chart showing:
 - 41% Sacramento River Water
 - 59% Groundwater from City Wells
- Footer:** Davis California logo, SaveDavisWater.org link.
- Right Sidebar:** Social media icons (Facebook, Twitter, Instagram) and a list of links under 'Water Conservation' including: City Water Conservation Efforts, Conservation Rebates, Drought Information & Water Use Restrictions, Kids & Educators, Leak Detection, Model Water Efficient Landscape Ordinance, Saving Water Indoors, Saving Water Outdoors, Water Use Portal, Water Conservation Workshops, Helpful Links, and Water Supplies During Dry Years and Drought.

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- Text Content:**

Font Size: [icons] [Share & Bookmark](#) [Feedback](#) [Print](#)

Drought Information

Is Davis in a Drought?

On May 10, 2021, Governor Newsom signed a drought declaration which included Yolo County, making it essential that we all continue the water conservation measures that have been in place since the last drought. While Davis currently has adequate potable water supply, since the recent multi-year drought, water conservation and water use efficiency are now a way of life in all of California. Weather patterns may change with dry and wet years and this cycle may be exacerbated by climate change, but the City of Davis is committed to pursuing long-term water use efficiency.

More drought information can be found with the links below:

[U.S. Drought Monitor for California](#)

[California Department of Water Resources Drought Information](#)

[Environmental Protection Agency \(EPA\): Drought & WaterSense](#)

[Yolo County Drought Resources](#)

How is the Water Supply for the City of Davis?

With two dry years of precipitation and current forecasts predicting continued dry weather, the City will need to rely on groundwater supplies more heavily as surface water from the Sacramento River is more limited in summer months and extended dry periods. Although the City's water supplies (via the conjunctive-use system of surface water and groundwater) are currently stable, continuing water conservation efforts can help to reduce water demands citywide, ensure that resources are being used as efficiently as possible, and prepare the community in case there are more significant impacts from drought conditions or State mandates for reductions.



Making Trees a Priority

- ▶ Lessons learned from last drought
- ▶ Messaging on social media, e-news, press releases, newspaper, website

Protect Our Trees

During the hot, dry summer months it is essential to water your trees. Deep watering of trees encourages root growth, helps reduce surface rooting, and helps keep trees healthy even during dry and/or drought conditions. Providing a 3-5" mulch layer under the tree canopy, as much as possible, helps retain soil moisture, builds soil organic matter, and develops healthy soils, which in turn boosts tree health and vigor.

If your tree is still young and staked:

- Give it 10 gallons of water once a week.
- Once the roots are established and staking is no longer needed, weekly water is no longer necessary.

[View the video on watering young trees](#)

If you have a mature tree:

- Supplemental water is only needed once a month during hot and dry weather, twice a month during prolonged heat waves.
- Drip or flood irrigation over the critical root zone is best.
- Avoid overhead spray, if possible. If overhead spray is the only option, do not allow water to spray the tree trunk!

[View the video on watering mature trees](#)

Find more information on caring for trees during dry year and drought conditions:

- [Help Your Trees Survive the Drought](#)
- [California ReLeaf Trees and Drought in California](#)
- [Managing Healthy Trees During Drought Conditions](#)

Prioritize and Protect Trees

During the hot, dry summer months, it is essential to water your trees. Deep watering of trees encourages root growth, helps reduce surface rooting, and helps keep trees healthy even during dry and/or drought conditions. Providing a three five-inch mulch layer under the tree canopy (as much as possible) helps retain soil moisture, builds soil organic matter, and develops healthy soils, which in turn boosts tree health and vigor.



**Save Our Water
and Our Trees!**

If your tree is still young and staked:

- Give it 10 gallons of water once a week.
- Once the roots are established and staking is no longer needed, weekly water is no longer necessary.

If you have a mature tree:

- Supplemental water is only needed once a month during hot and dry weather, twice a month during prolonged heat waves.
- Drip or flood irrigation over the critical root zone is best.
- Avoid overhead spray, if possible. If overhead spray is the only option, do not allow water to spray the tree trunk!

Find more tips on caring for your trees at [City of Davis Urban Forestry](#) and find helpful videos on watering trees at the links below:

- [Watering mature trees Video](#)
- [Watering young trees Video](#)
- [Drought and Trees](#)



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Published by Greener Davis-Staff · July 15 at 11:14 AM · 🌐

Don't Forget Your Trees!

During the hot, dry summer months, it is essential to water your trees. Deep watering of trees encourages root growth, helps reduce surface rooting, and helps keep trees healthy even during dry and/or drought conditions. Providing a three to five-inch mulch layer under the tree canopy (as much as possible) helps retain soil moisture, builds soil organic matter, and develops healthy soils, which in turn boosts tree health and vigor.

Learn more on the C... [See More](#)



**Save Our Water
and Our Trees!**



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Published by Greener Davis-Staff · July 6 at 9:39 AM · 🌐

If you want to make your trees happy, apply a 4-6 inch layer of mulch around the base of the tree, but be sure to keep it away from the trunk. 🌳🌳💧😊



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Published by Greener Davis-Staff · July 9 at 7:55 AM · 🌐

Ready or not, the summer months are upon us and that means dry and hot weather. This not only affects us, but also the trees planted at our homes and in our community. The City's Urban Forest Division works hard to ensure a healthy tree canopy by managing more than 16,000 trees. However, we can't do it alone! Proper and sufficient watering of trees is vital to the health of our tree canopy.

Is your tree still young and staked?

- Give it 10 gallons of water once a week
- On... [See More](#)



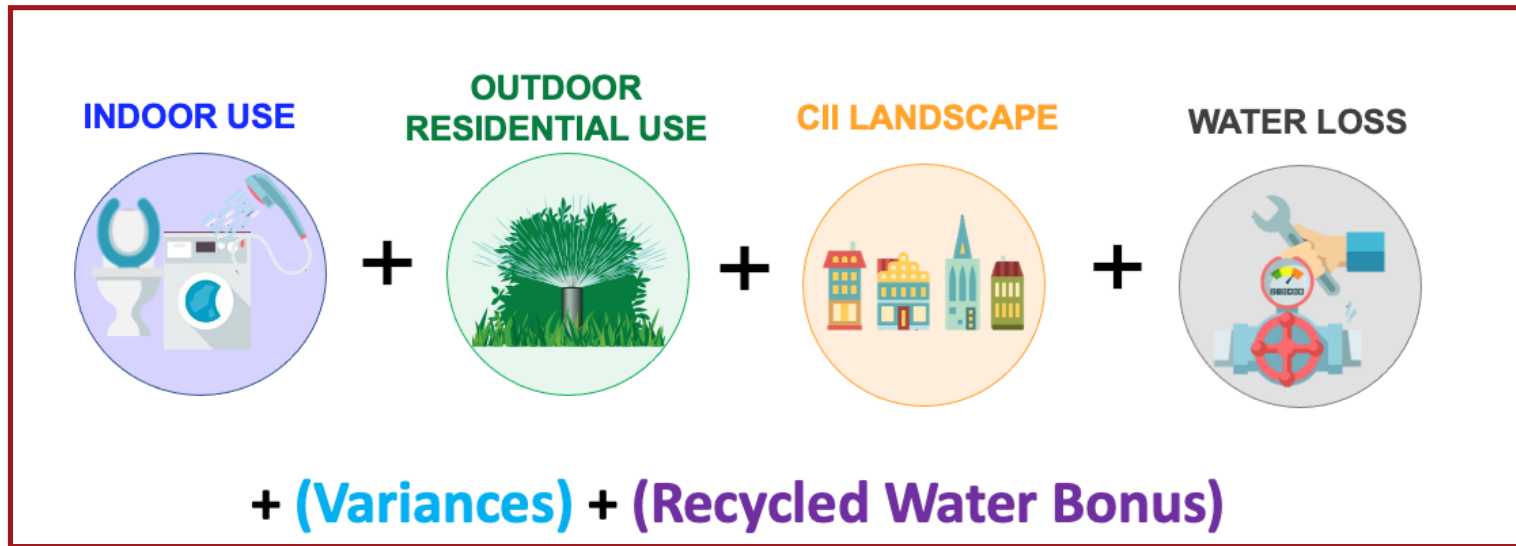
OUTUBE.COM

/atering Young Trees

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New Water Use Efficiency Standards

- ▶ Senate Bill 606 and Assembly Bill 1668 call for creation of new statewide urban water use efficiency standards
- ▶ Each Urban Retail Water Agency will have a Water Use Objective



Water Use Objective

- ▶ State Water Board to adopt these standards by regulation no later than June 30, 2022
- ▶ Beginning November 2023, water agencies will calculate and report their water use objectives annually
- ▶ Many details for implementing the new water use requirements will be determined over this coming year