## ER California <br> Farm Bureau.

## California Agriculture Water Use: Setting the Record Straight

AMRITH GUNASEKARA, PHD. AGUNASEKARA@CFBF.COM DIRECTOR OF SCIENCE AND RESEARCH CALIFORNIA BOUNTIFUL FOUNDATION

Foundation
please cite this work as; gunasekara, a. 2023. Water distribution in the state of CALIFORNIA. CALIFORNIA BOUNTIFUL FOUNDATION. CALIFORNIA FARM BUREAU.
HTTPS://WWW.CFBF.COM/CALIFORNIA-BOUNTIFUL-FOUNDATION/RESEARCH-STUDIES.
PLEASE DO NOT USE THIS WORK FOR ANY SCIENTIFIC JOURNAL PUBLICATIONS. IT IS IN THE PROCESS OF BEING PUBLISHED IN A PEER-REVIEWED SCIENTIFIC JOURNAL.

Questions:

Slide 3. How much total water does the state get in one year on average?

- How much water does agriculture need in a given year to feed us?

Slide 4. How much water is captured for use in California?
Slide 5. How much captured water does agriculture get in California? Slide 6. How much captured water does the urban sector get in California? Slide 7. How much captured water does the environment get in California? Slide 8. How is water for California agriculture represented in the media? Slide 9. How is water for California agriculture portrayed? Slide 10. Uncaptured water is environmental water! Slide 11. How much water does agriculture get in California from total water? Slide 12-14. How should agriculture be portrayed in California agriculture? Slide 15. California agriculture uses water efficiently Slide 16. Key Statistics about California Agriculture

## How much total water does the state get in one year on average?

On average over many years - 200 Million Acre Feet (MAF). In wet years such as 2023, this number is significantly higher

How much does agriculture need in a given year to feed us;
Approximately 43 MAF for 9.6 million irrigated acres (less now due to the
 Sustainable Groundwater Management Act and droughts)

## How much water is captured for use in California?

Captured Water - Wet Year (2006)
254 MAF

Captured Water - Dry Year (2014)<br>103 MAF



## How much captured water does agriculture get in California?

Foundation


## How much captured water does the urban sector get in California?

Urban Share of Captured Water - Wet Year (2006)
103 MAF

Urban Share of Captured Water - Dry Year (2014)<br>62 MAF



California
Farm Bureau.

## How much captured water does the environment get in California?

## Environmental Share of Captured Water - Wet Year (2006) 103 MAF

Environmental Share of Captured Water - Dry Year (2014) 62 MAF



## How is water for California agriculture represented in the media?

Agriculture uses $80 \%$ of the water statement. Ag and urban sectors only compared. Environmental water is excluded in water distribution. Incorrect use of data.


## How is water for California agriculture half of water that does not get captured)


$8 \%$ - Urban and
Other Share ( 12 MAF) of
Captured Water ( 62 MAF)

Dry Year (2014)
62 MAF



## Uncaptured water is environmental water!

The uncaptured water is environmental water since it is not used by agriculture or the urban sector and flows to through the rivers and streams to the ocean.


Captured Water - Wet Year (2006)
254 MAF

Captured Water - Dry Year (2014)
103 MAF


## How much water does agriculture get in California from total water?



## How should agriculture be portrayed in water that is captured and not captured. Wet year example. Dry year environmental water is $58 \%$ or 63 MAF)



## How should agriculture be portrayed in

Foundation

## California agriculture? Environmental Water includes the

 water that is not captured.

How should agriculture be portrayed in Foundation
California? Environmental Water includes the water that is not captured. Agriculture uses $12 \%$ of total water.

Wet Year



## California agriculture uses water efficiently



## Key Statistics about California Agriculture

Foundation

- Number 1 state in the nation for agriculture outputs ( $\$ 55.9$ billion in cash receipts).
- Water use is very efficient - more than half the acres use efficient technologies such as drip irrigation.
- Acres in efficient irrigation technologies have been steadily increasing over time while less efficient methods are declining.
- Total irrigated acres - approximately 9 million acres.
- Only uses just over four times the water used for urban use.
- California is one of five unique Mediterranean regions in the world (with no rain for six to eight months of the year).
- Produces high-value "specialty crops" including fruits, nuts, and lettuces.
- Many specialty crops not grown anywhere else in the country.
- Reputation for providing a safe, affordable, nutritious, diverse, and consistent food supply to California and the nation.

Get more ag stats on California Agriculture from CalPoly. For questions, please contact Amrith Gunasekara, PhD. agunasekara@cfbf.com

