

# Long Beach Water Department



Water Shortage  
= Opportunity

Matthew Lyons, Director of  
Planning & Conservation

October 2007

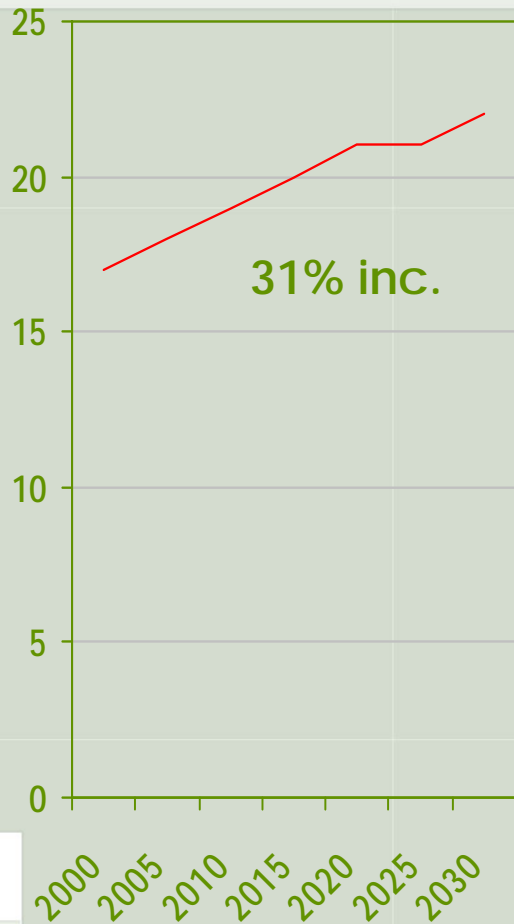


## 2-part presentation

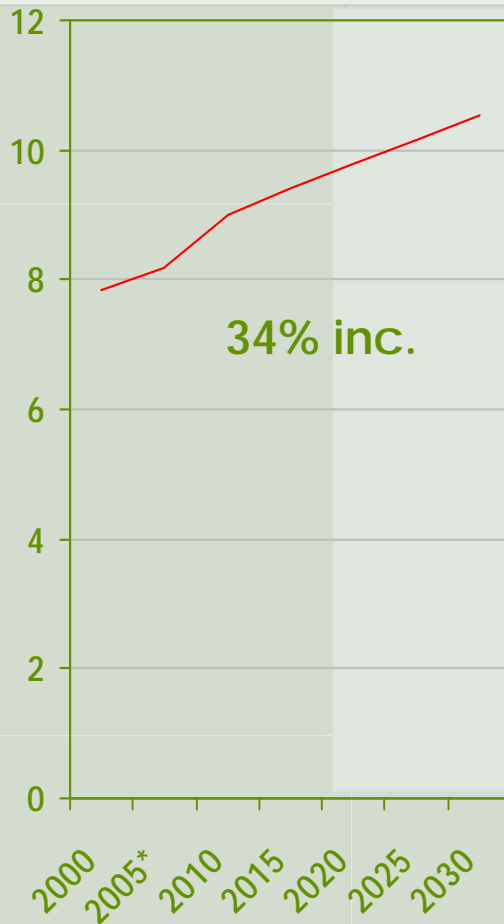
- Welcome to So. Cal's new water supply reality
- Opportunity to re-landscape southern California

# Southern California (in millions)

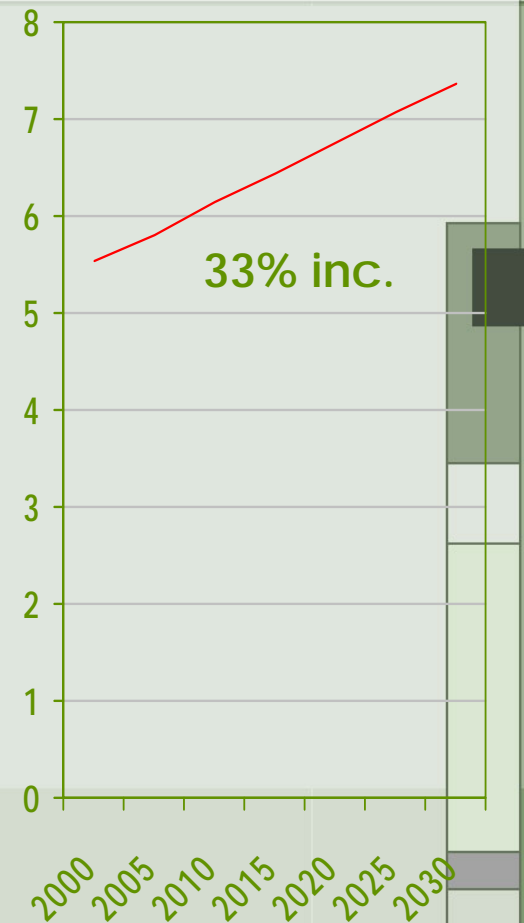
## Population



## Employment



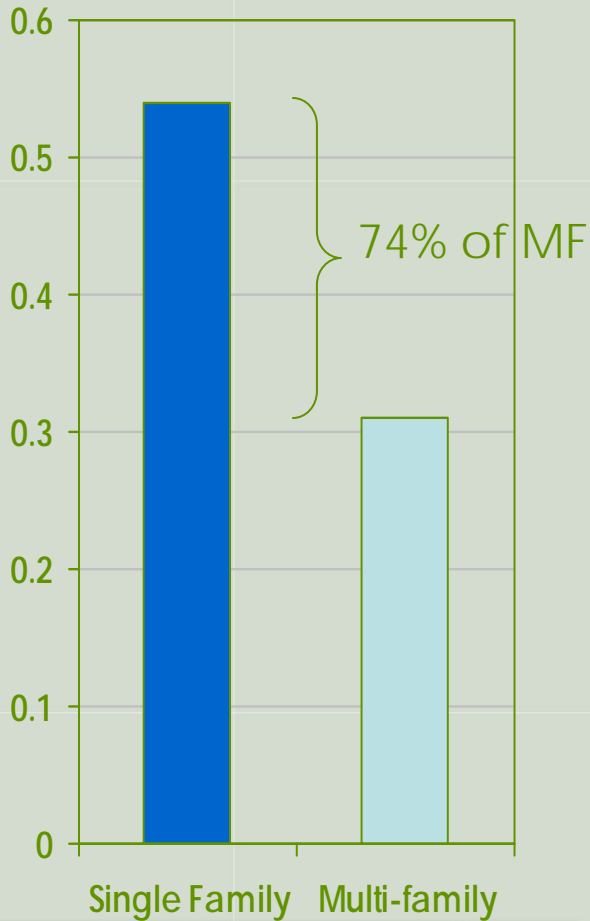
## Housing units



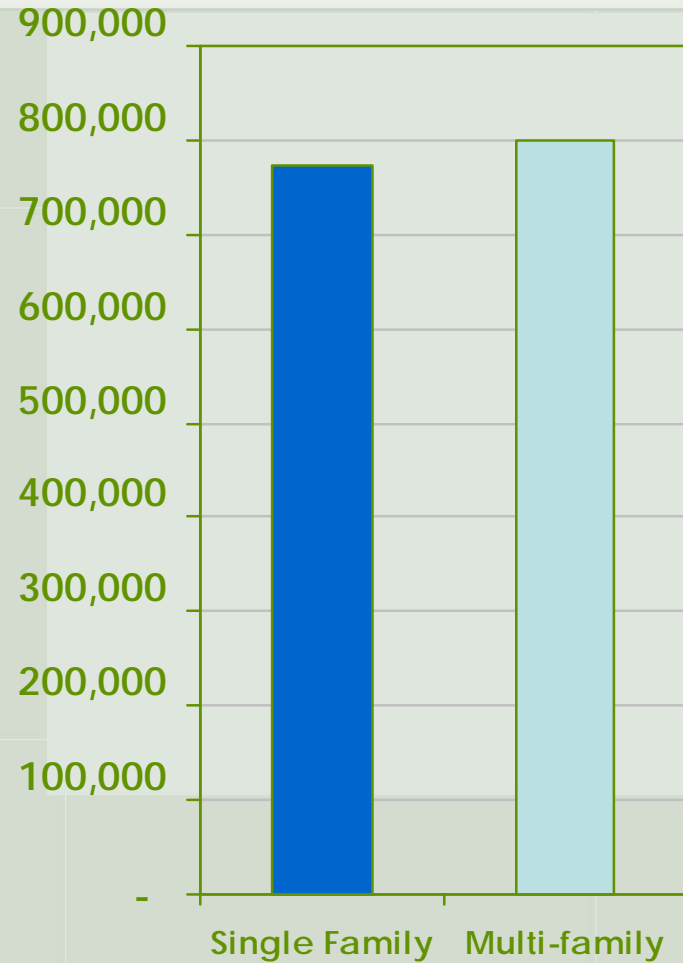


# Southern California

AF of Water per year  
(basically unchanged thru 2030)



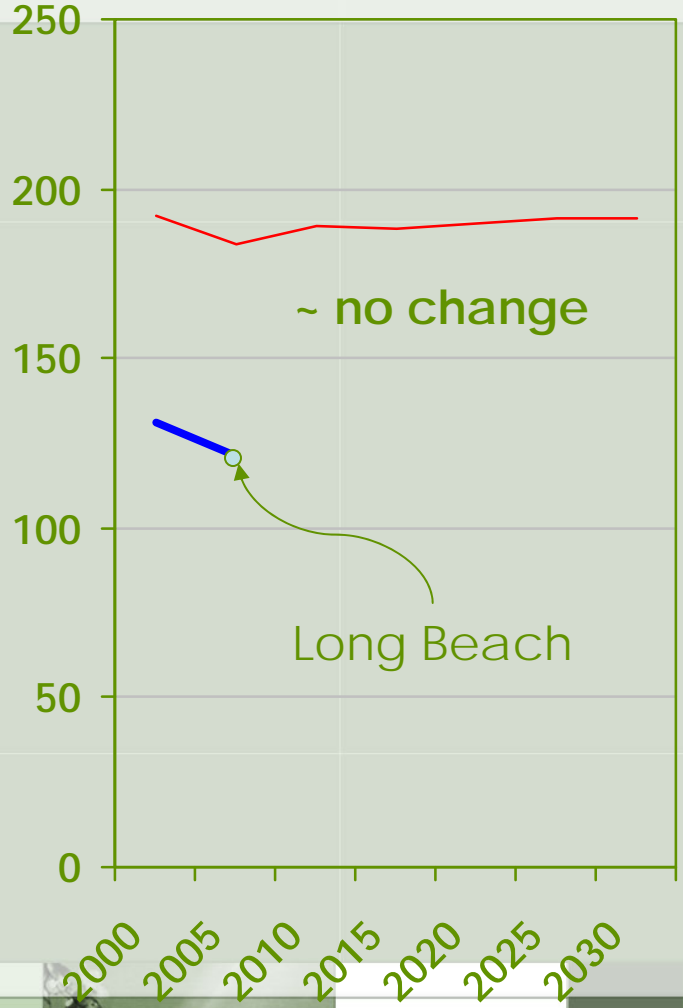
Increase in the # of Units  
2005 thru 2030



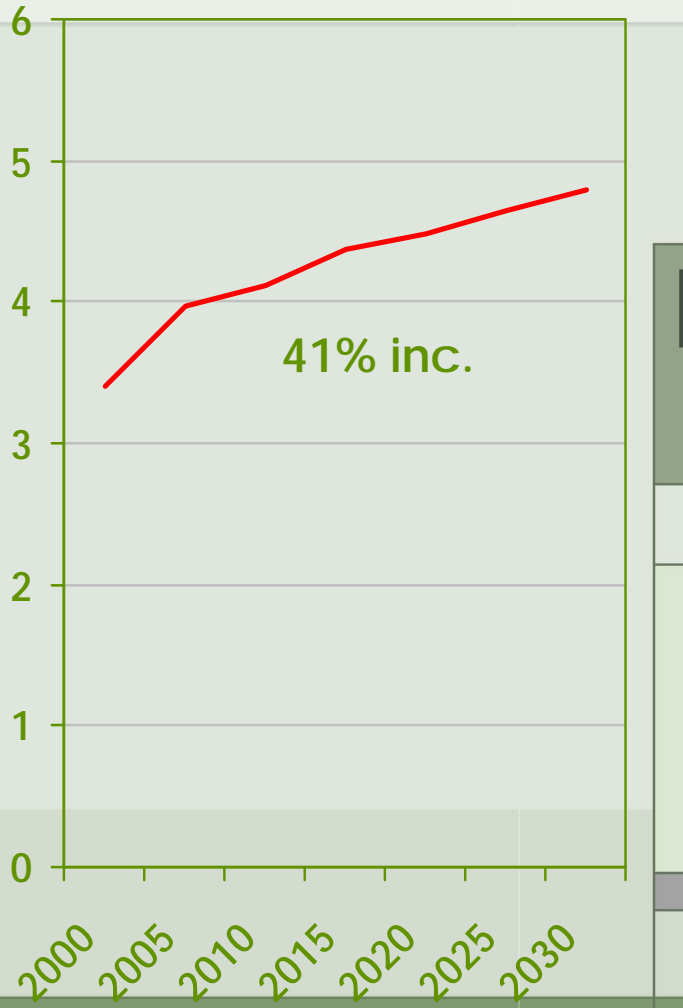


# Southern California

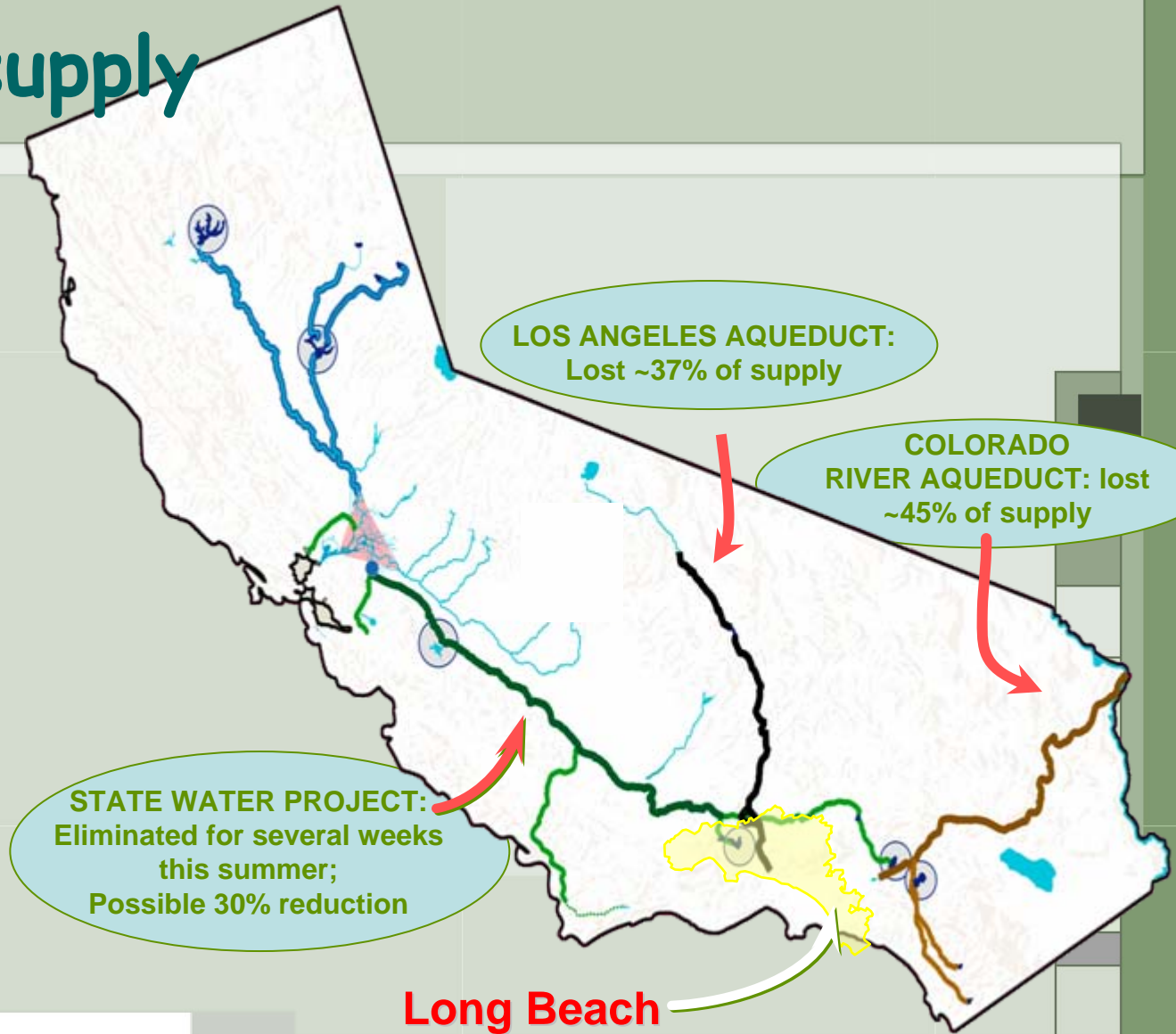
## Per Capita Water Use (gallons/day)




## Demand (millions of acre-feet)



# Loss of supply



**Long Beach**



# So. Calif highly dependent on imported water

- Anaheim 31%
  - Burbank 49%
  - Fullerton 31%
  - Long Beach 50%
  - Los Angeles 65%
  - Pasadena 60%
  - San Diego 73%
  - Santa Ana 34%
  - Santa Monica 82%
  
  - **So. California 50% ~ 18 million people**
- 



# Long Beach Press Telegram ~ 10/9/07

- “Amid a growing water crisis across the state, officials warned Monday (Oct 8, 2007) that they will cut water to Southern California farmers 30 percent by early next year and are drafting plans that would force residential water rationing for the first time in more than a decade....”
- “‘If we are going to be effectively short on imported water 70 percent of the time, we’re going to have to make that up through conservation and changing our lifestyle here in Southern California,’ said Jeff Kightlinger, the MWD’s general manager.”
- “In the wake of the (court ruling on ecosystem protection), MWD will have to cut its supply of water from Northern California by 25 percent.


‘That really turns our world of reliability on its head,’ Kightlinger said. ‘People will feel this.’

MWD officials also are talking about water rationing for the first time since 1991...”





# Long Beach Water-use Restrictions

- Landscape irrigation
    - No watering except Mon-Thurs-Sat
    - No watering between 7 am and 6 pm
    - Watering no more than 10 minutes per station
    - No watering to the point of excessive runoff
  - Hotels: must offer choice of not cleaning towels and linen daily
  - Restaurants
    - No offering water without being asked
    - Must use water-conserving dish rinser
  - No hosing down hardscape except with certain pressurized devices
  - No washing car with hose that lacks automatic shut-off device
- 

...so, for Southern California...



Need for  
permanent life-  
style change...  
...possibly for  
the better

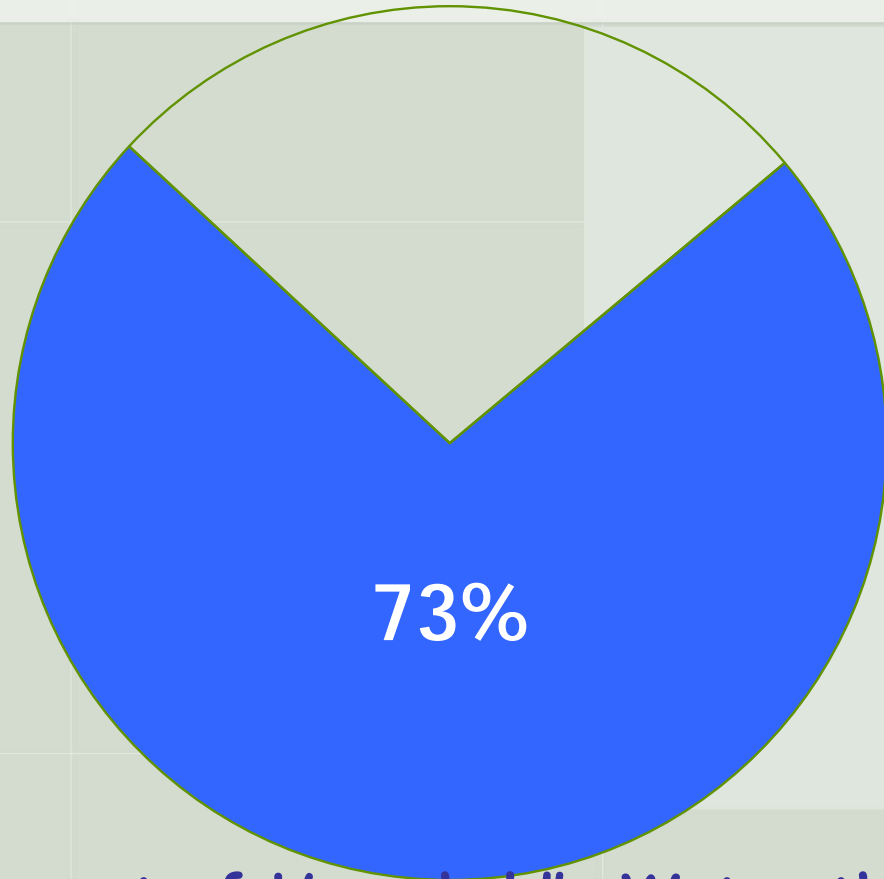
# Change #1: Alleviate water shortage by improving quality of life...



...convert grass lawns to California-friendly landscapes

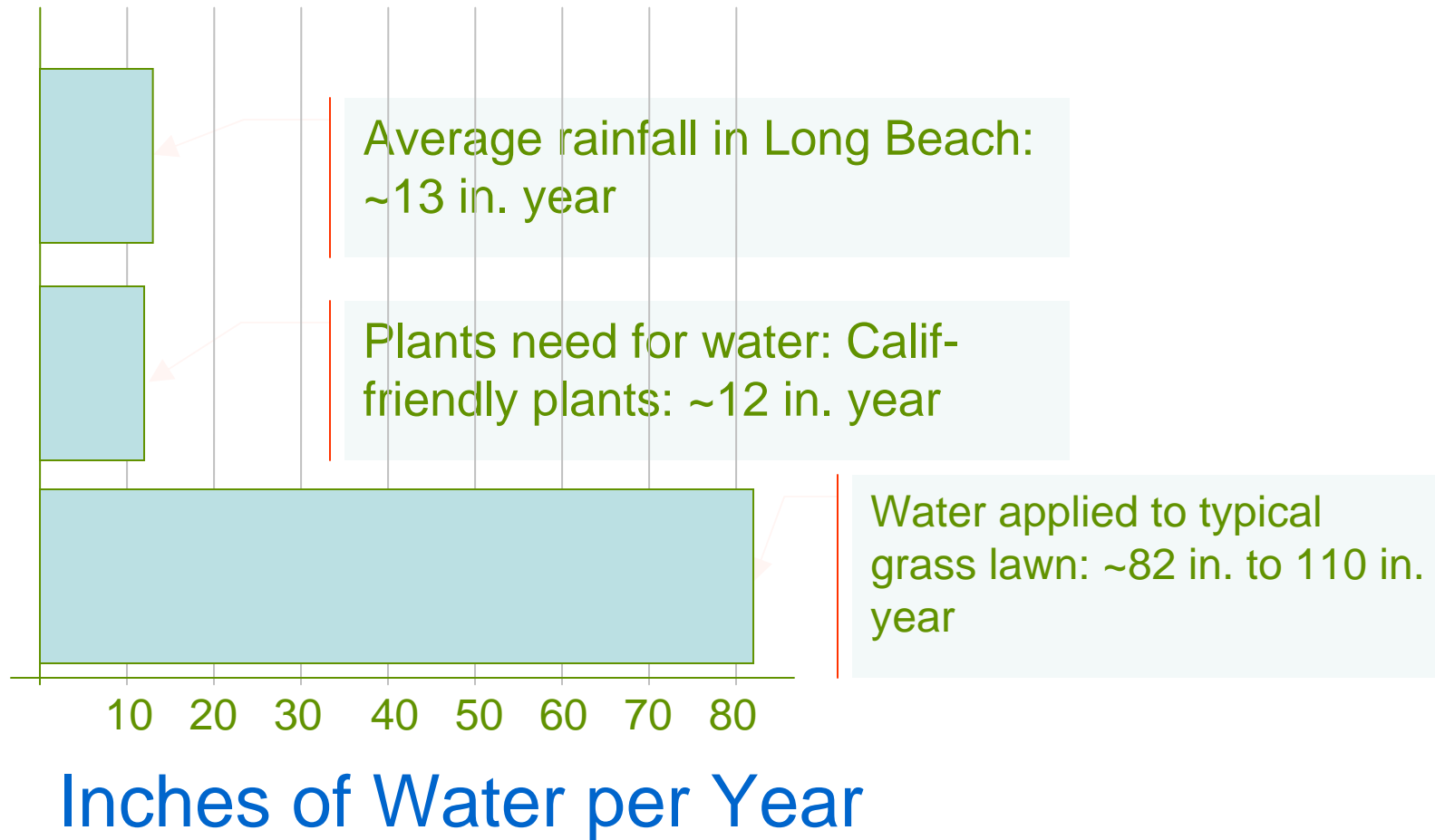


# Most of the water used at the typical home is used outdoors



Percent of Household's Water that's Used Outdoor in LA County (per State est.)

# Grass is a very thirsty plant and sprinkler systems are very inefficient





# Lawn vs. Cal-friendly Landscape

	Grass Lawn relative to CFL
Water usage	High
Runoff	High
Fertilizer, herbicides, etc.	High
Maintenance	High
Wildlife support	Low
Functionality	Low
Color	Low
Variety/ interest	Low

# Improve our quality of life

Color,  
habitat,  
&  
variety/  
interest

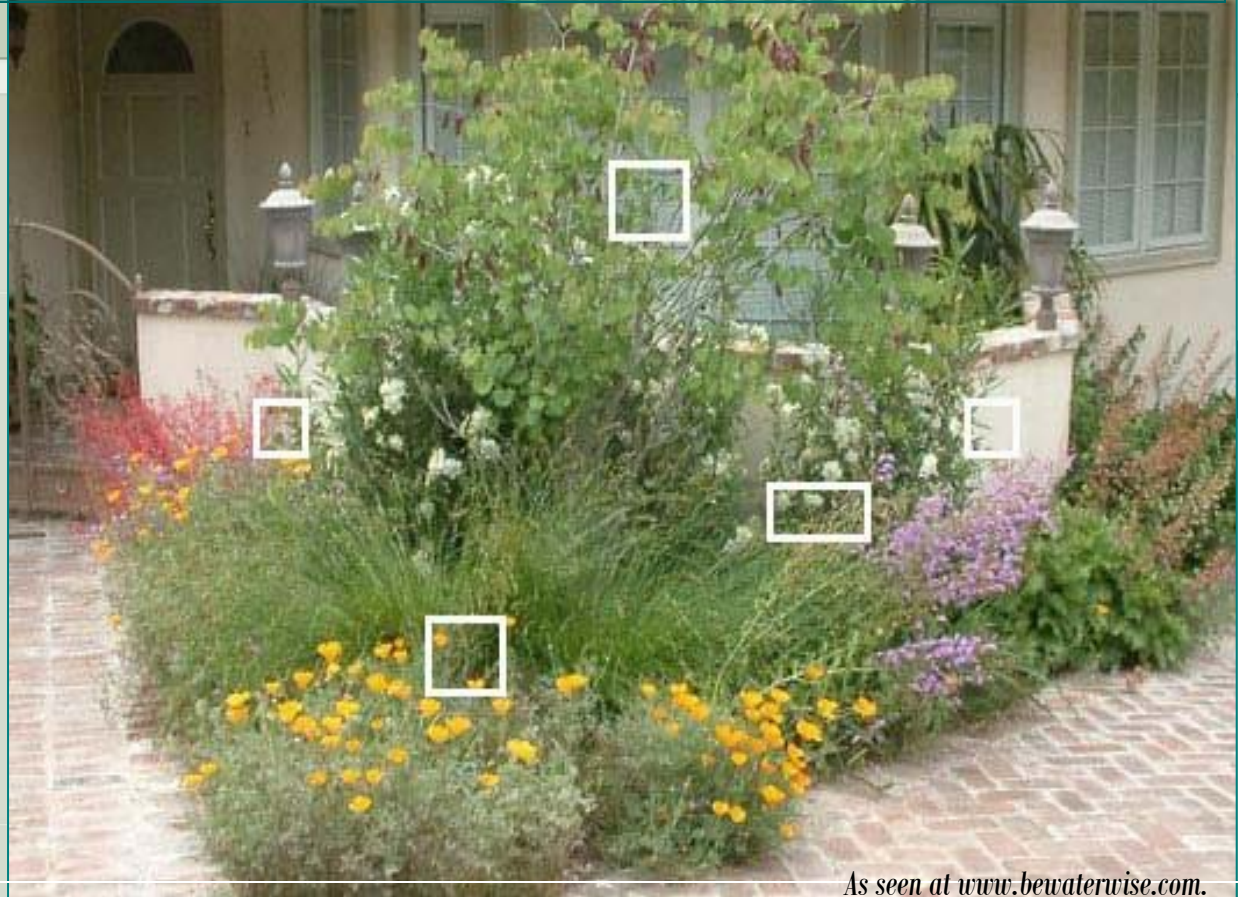


*As seen at [www.bevaltraise.com](http://www.bevaltraise.com).*

... but very little water or runoff or chemicals or maintenance

# Improve our quality of life

Color,  
habitat,  
&  
variety/  
interest



*As seen at [www.bewaterwise.com](http://www.bewaterwise.com).*

... but very little water or runoff or chemicals or  
maintenance



# Improve our quality of life

Color,  
habitat,  
variety/  
interest,  
very  
functional



*As seen at [www.bewaterwise.com](http://www.bewaterwise.com).*

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*As seen at [www.bewaterwise.com](http://www.bewaterwise.com).*

# Beautiful Cal-friendly Landscape ~ How accomplished?

- [www.lbwater.org](http://www.lbwater.org)
  - > then click "Water Conservation"
  - > then click "Landscape"
- Incrementally
- Copy landscapes you enjoy





# Create your Beautiful CFL

- [www.bewaterwise.com](http://www.bewaterwise.com)
  - > click on "Garden Spot"
    - Tour 16 beautiful gardens
    - View 100's of beautify front yards, back yards, walkways, etc.
    - Search for 1,000's of plants
    - Plants recommended by experts
    - On-line gardening and design classes



# Create your Beautiful CFL

- Nurseries
  - Tree of Life
  - Theodore Payne
  - Las Pilitas
- Creating habitat
  - National Wildlife Federation, click on “Garden for Wildlife”
    - Create “certified wildlife habitat” in your garden
  - Audubon
    - Create bird-friendly gardens
- Google
  - 100’s to 1,000’s of great sites, just enter a plant name or other subject



For water reliability, environment, wildlife, & quality of life...

...choose a low-maintenance beautiful Cal-friendly landscape

End

