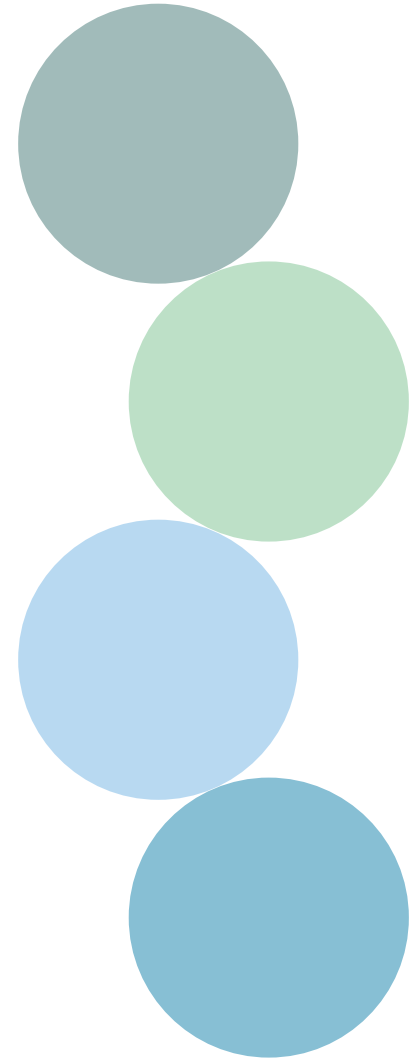




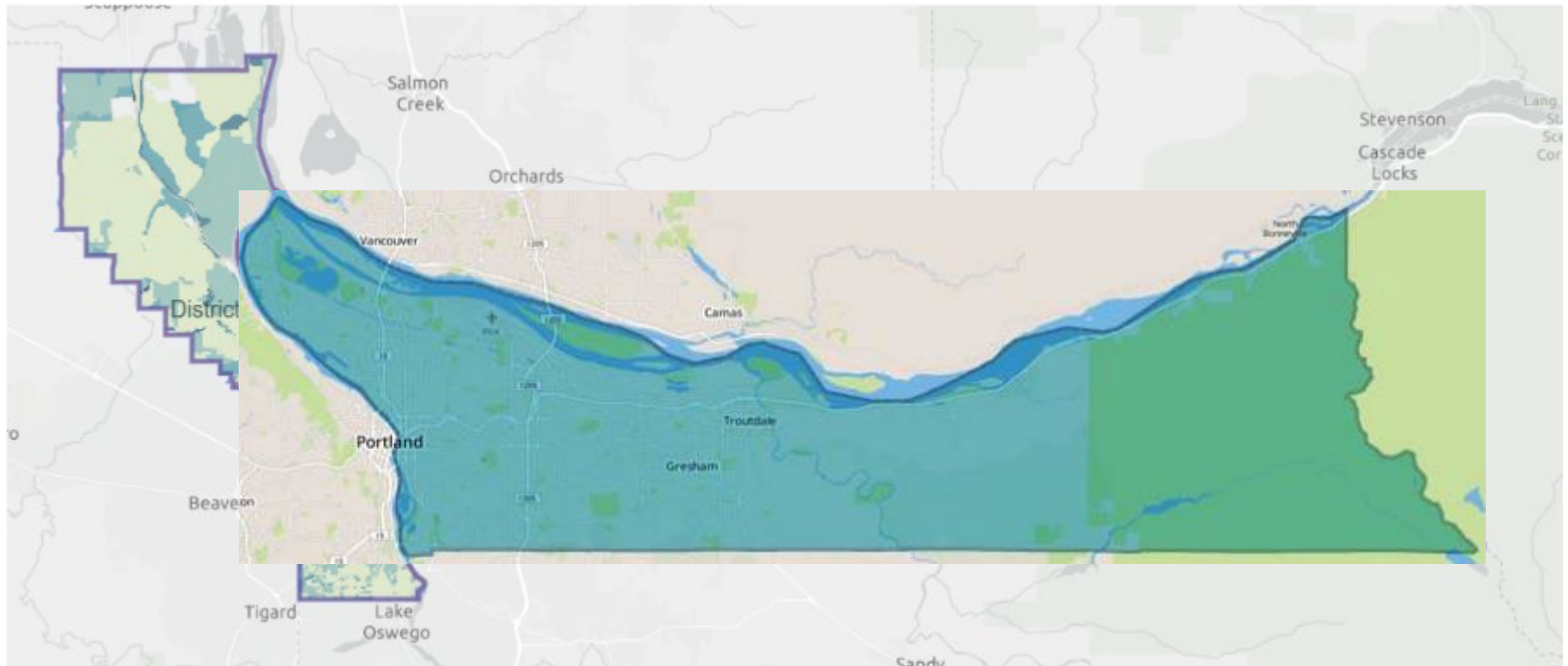
Kathy Shearin
East Multnomah Soil and Water
Conservation District
(EMSWCD)



Who is
EMSWCD
anyway?



Who is EMSWCD?



We help people care for land and water.





**Conserving and
protecting our water**

IN THE NEWS THIS WEEK!

Parched southern California takes unprecedented step of restricting outdoor watering

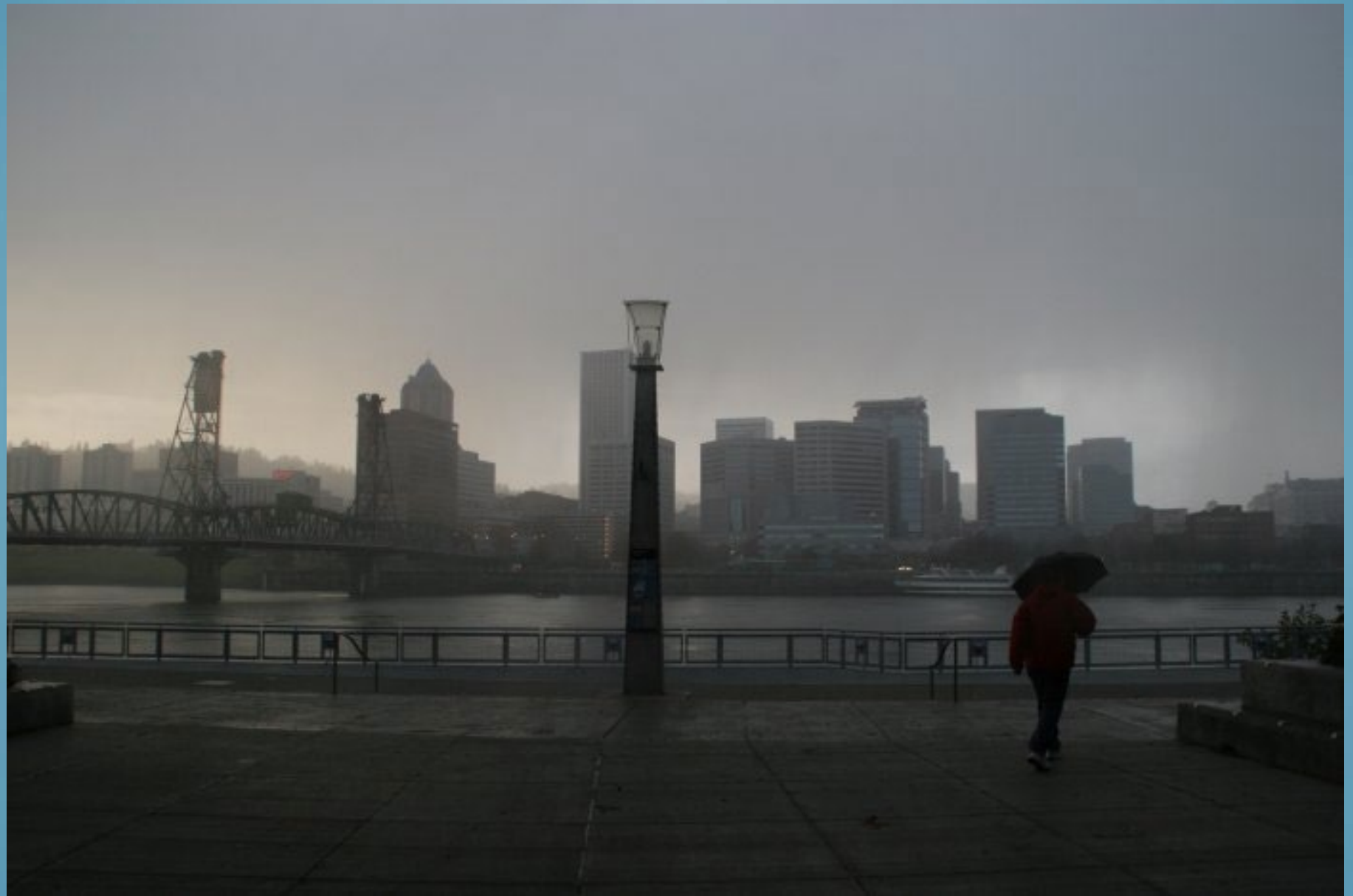
The resolution will limit watering to just one day a week, affecting millions in Los Angeles, Ventura and San Bernardino counties



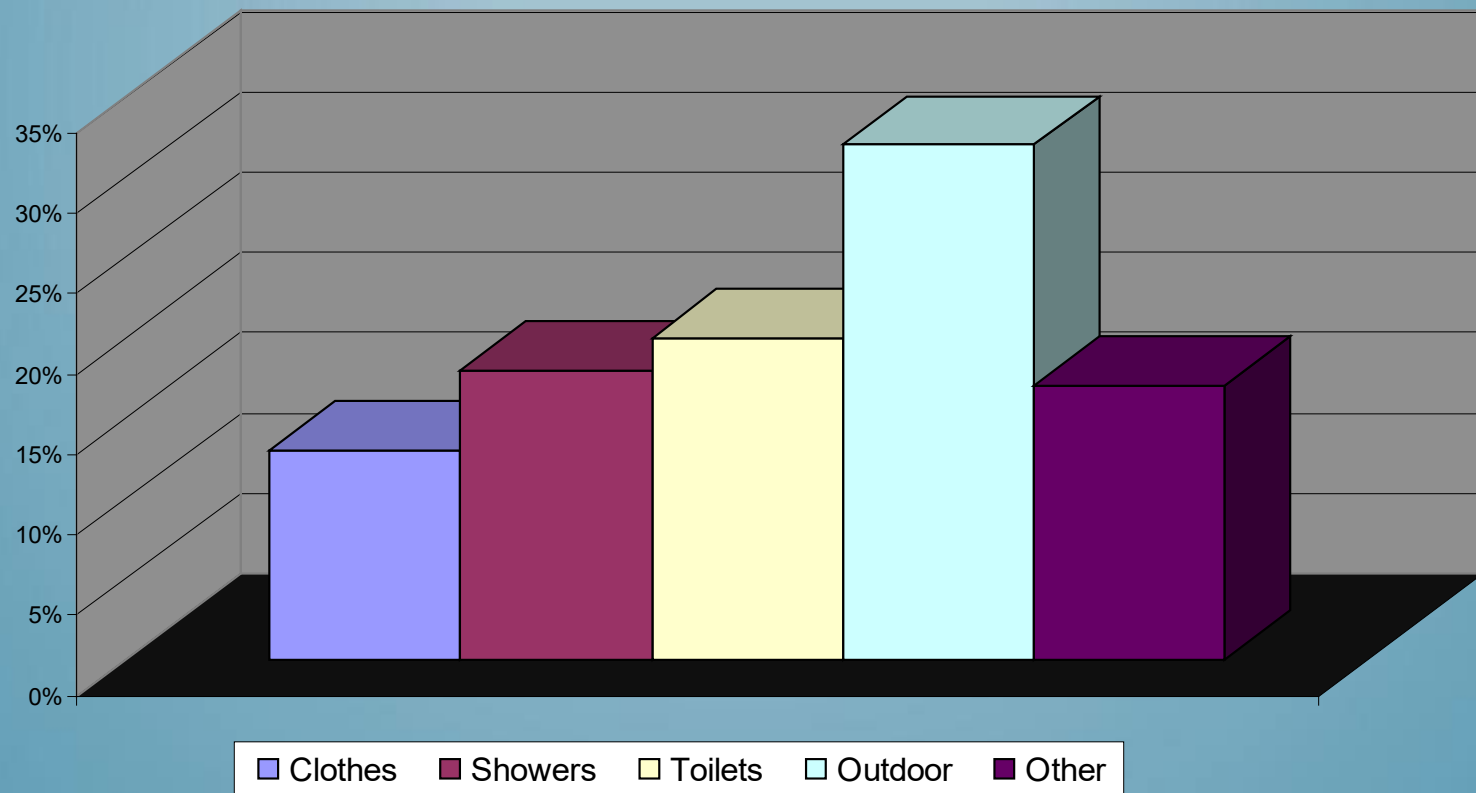
Southern California's new restrictions will limit outdoor watering to just one day per week for millions. Photograph: Frederic J Brown/AFP/Getty Images

Southern California officials declared a water shortage emergency Tuesday, and adopted new **unprecedented restrictions on outdoor watering** that will affect millions of people living in Los Angeles, Ventura and San Bernardino counties.

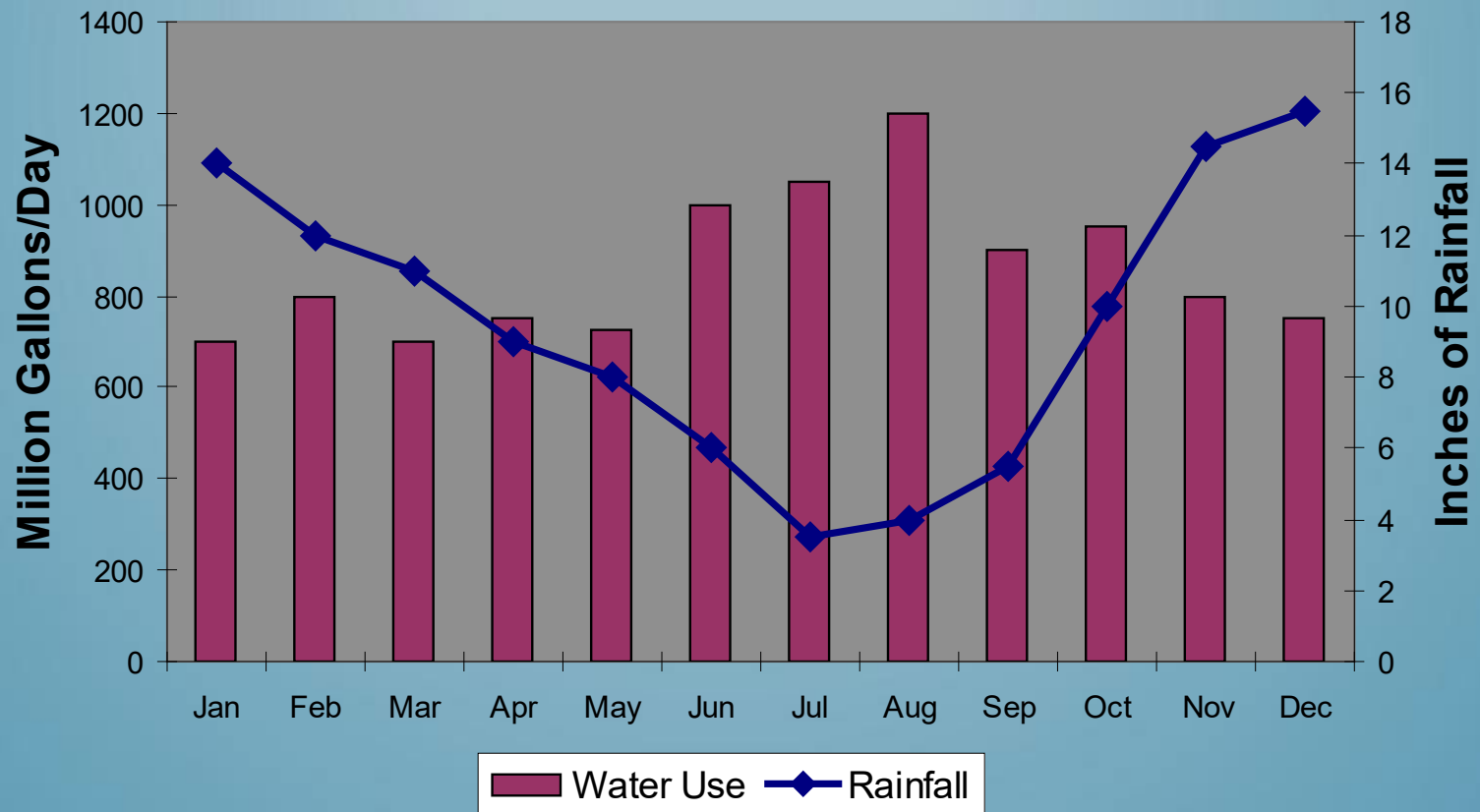
Metropolitan water district of southern California's resolution will limit outdoor watering to just one day per week for district residents supplied by a stressed system of canals, pipelines, reservoirs and hydroelectric power plants called the State Water Project, which supplies water from the Sacramento-San Joaquin River Delta to 27 million Californians and 750,000 acres of farmland.

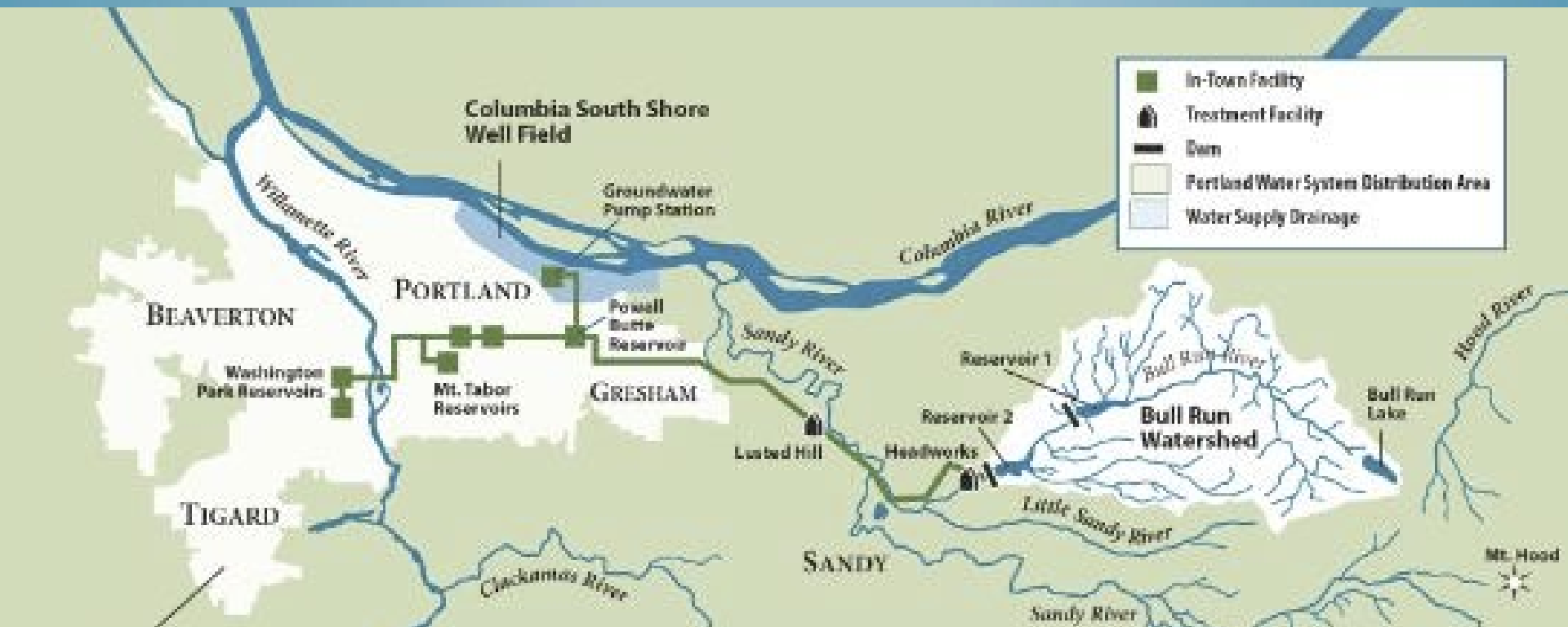


Typical Household Water Use Graph



Typical Residential Water Use vs. Rainfall West of Cascades





ANOTHER ARTICLE PUBLISHED THIS MONTH ABOUT THE IMPORTANCE OF CONSERVING WATER

QUARTZ

CITIES UNDER WATER

The world's coastal cities are sinking, but not for the reason you think



Jakarta, shown here, has been called the fastest-sinking city in the world.

FROM OUR OBSESSION

Rethinking cities

Cities have to accommodate more people, lessen their environmental footprint, and become more



<https://qz.com/2155497/coastal-cities-are-sinking-faster-than-sea-level-rise/>

SO, HOW CAN WE ALL START
TO CONSERVE WATER?



WASTED WATER

We waste water when we water... ..

- *too much, (and it runs off or drowns the plants)*
- *too little, (and the plant dies)*
- *too deep (and we lose it),*
- *when it's too hot (evaporation)*
- *when it's too windy (mist/evaporation)*
- *.....and by planting thirsty plants*



Create Healthy Soil – add Organic Matter!



*Compost helps retain water,
suppress weeds and reduces erosion*

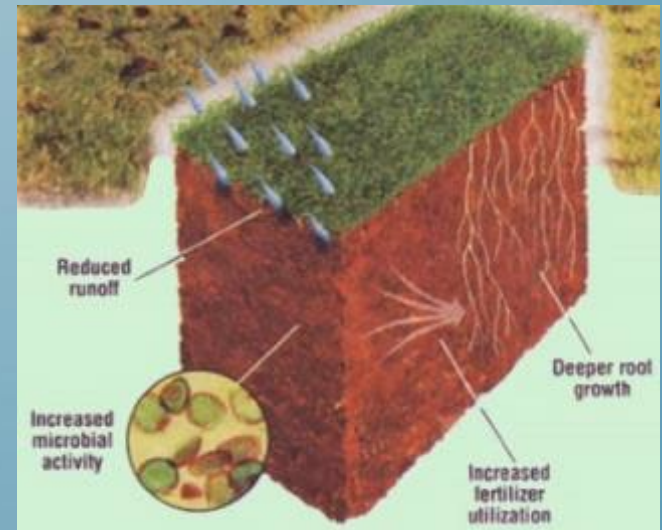
Organic matter balances soil structure:

- *helps clay soils soak up water*
- *helps sandy soils retain water*
- *adds nutrients to soil*
- *helps to increase micro-life*



Life in the soil – bacteria, invertebrates, mycorrhizal fungi, etc.

- *Micro-life can form symbiotic relationships with plants and help plants take up the moisture and nutrients they need from the soil*
- *Micro-life also help aerate soil*



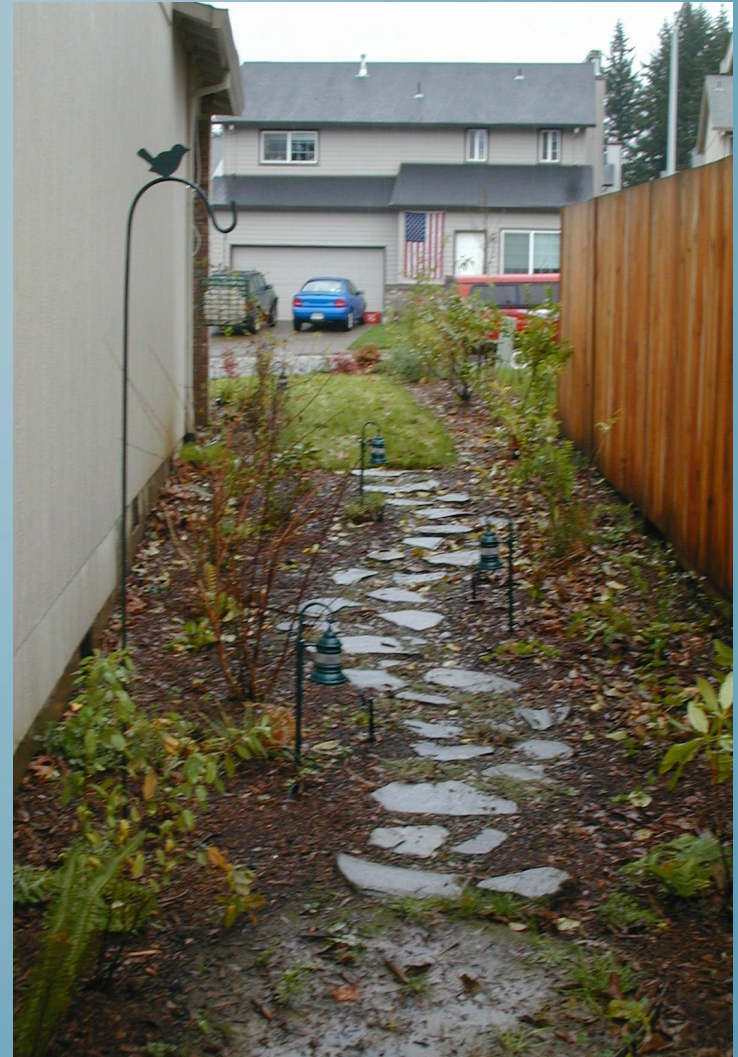
Lawn

One of the most thirsty plants
you can have in the landscape



Evaluate Your Lawn Needs

- *Where does lawn make sense?*
- *Where can you replace it with something more interesting?*



WHILE YOU
COULD CHOOSE
ONE OF THESE
OPTIONS.....



*there are many
reasons we
wouldn't
recommend it!*

Rethinking Your Lawn

- *Allow lawn to go dormant during dry months*
- *Remove any under-utilized lawn!*
- *Plant drought tolerant native plants and lawn mixes*



Consider Naturescaping

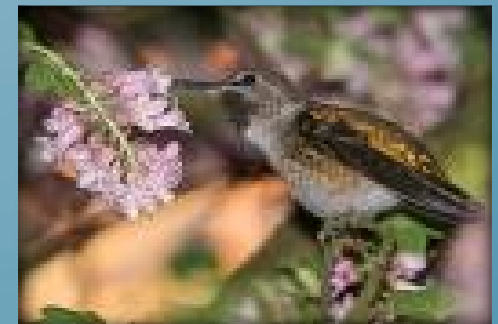


Naturescaping is the use of **Native Plants** to create **Natural Landscapes** that are **Water and Wildlife-friendly**.



Why are Native plants different than other types of plants?

- Adapted to the local weather cycles (wet winter, dry summer)
- Many are resistant to, or tolerant of, the pests of this area.
- Adapted to the soils of this region.
- They are LOW maintenance
 - No need to manicure a Naturescape
- Wildlife recognize the flowering and fruiting cycles of these plants.







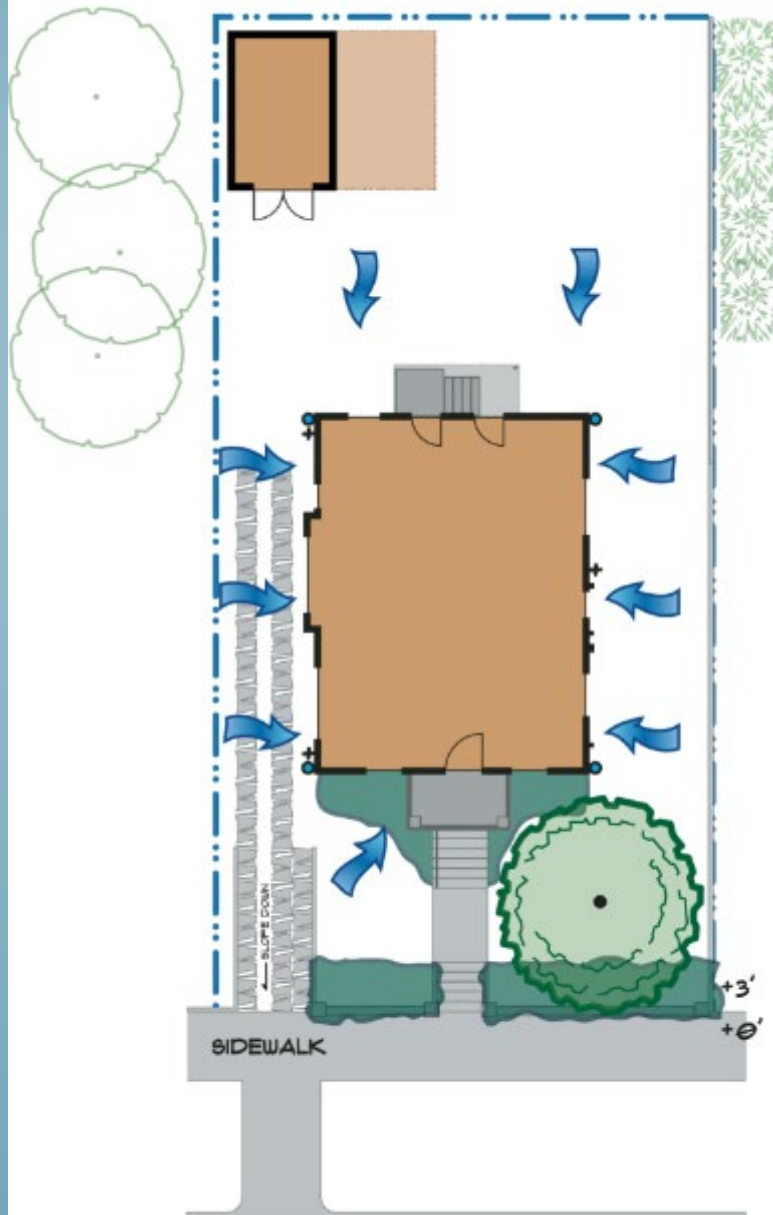


Choose native plants that are appropriate for your yard.

- *Group plants together that require about the same amount of water*
- *Right plant, right place*



ALLEY

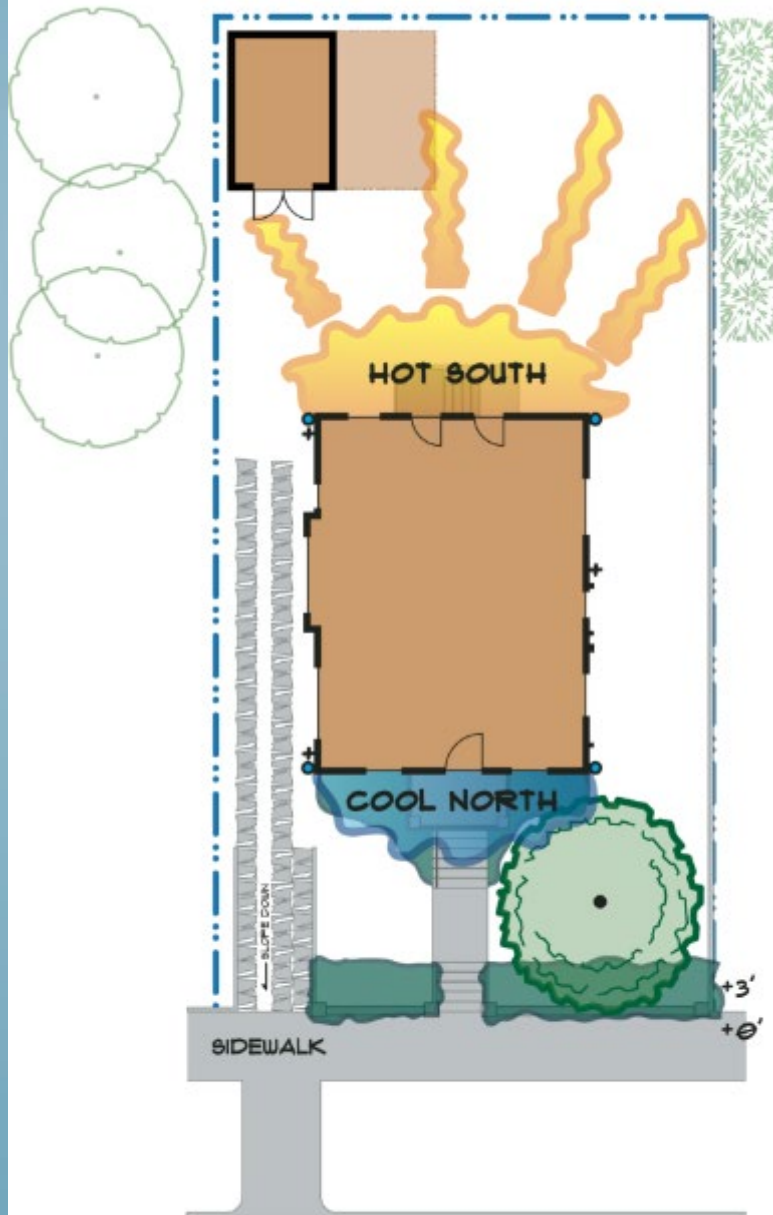


SITE ASSESSMENT: DRAINAGE

1' 5' 10'



ALLEY

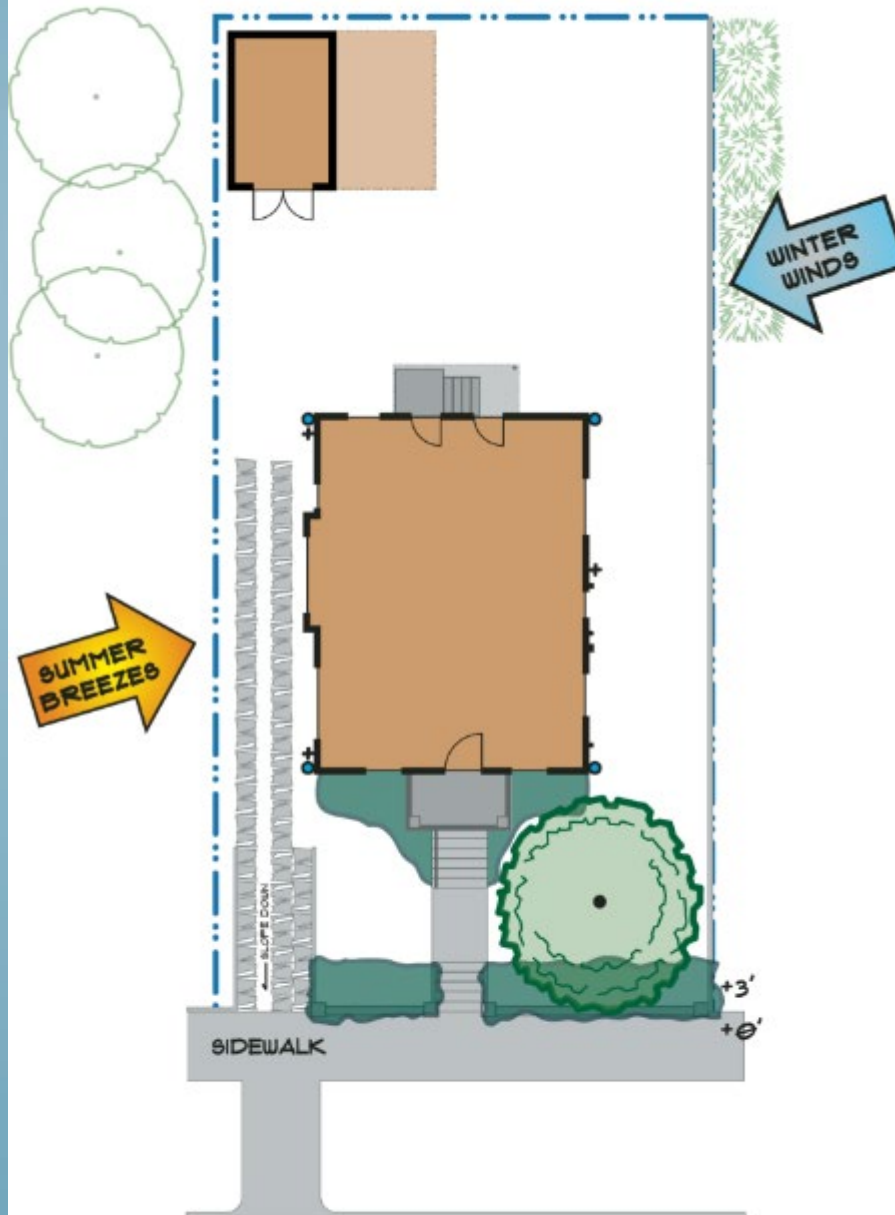


SITE ASSESSMENT: EXPOSURE

1' 5' 10'



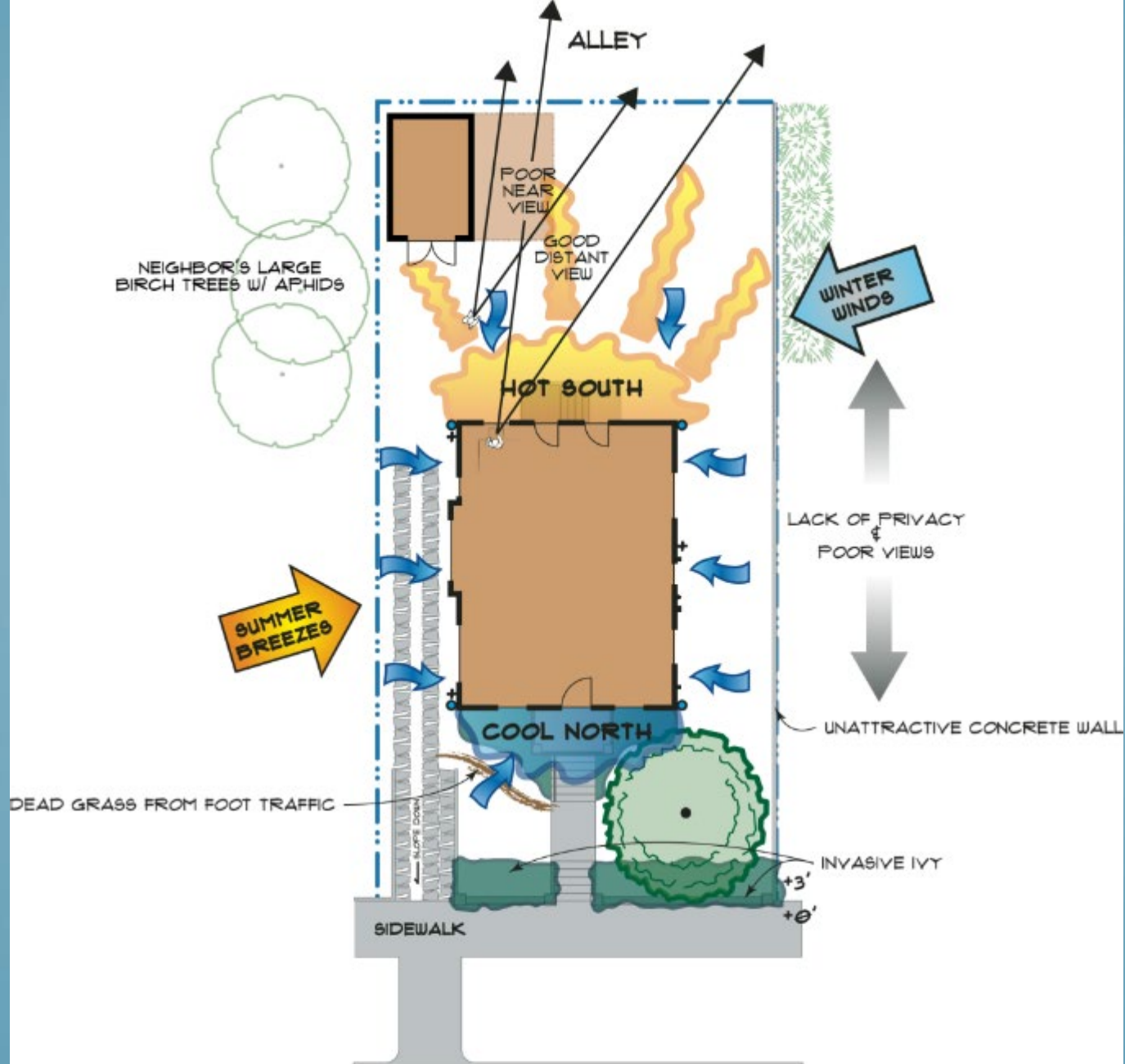
ALLEY



SITE ASSESSMENT: WIND

1' 5' 10'





SITE ASSESSMENT: ALL FACTORS

1' 5' 10'



USE THE FREE IRRIGATION THAT FALLS FROM THE SKY!





Conventional Stormwater Management wastes the free water from the sky!

STORMWATER SOLUTIONS

Keeping or using stormwater on site



Rain Gardens



Stormwater Planters



Rainwater Harvesting



Eco – Roofs / Green Roofs

Reducing Urban Heat Island Effect



Pervious Surfaces – Parking Lots, Driveways & Pathways

Reducing urban heat island



MULCH - FOR WEED SUPPRESSION AND MOISTURE RETENTION



*Although some of these
may do more harm than
good!*



ORGANIC
(DERIVED FROM
PLANT MATERIAL)
IS ALWAYS BEST!



IF IRRIGATION IS NECESSARY
(For example, vegetable gardens
or to get native plants established)
you have some decisions to make:

- *Choose the appropriate tool*
- *Choose the appropriate time of day/night to water*
- *Choose the appropriate amount/duration*

WHICH SHOULD I USE??????????



**HAND-WATERING TYPICALLY
ONLY WETS THE SURFACE –
LEADING TO SHALLOW ROOT
SYSTEM**



**SPRINKLERS ALLOW YOU TO
WALK AWAY AND WATER
DEEPER, BUT YOU RISK
FORGETTING ABOUT THEM AND
YOU ALMOST ALWAYS END UP
WATERING AREAS THAT DON'T
NEED WATER – ENCOURAGING
WEEDS AND WASTING WATER**



- ✓ Drip / Soaker hoses deliver water right to the root system (= minimal evaporation)



- ✓ Maintain for water efficiency:
 - Plant densely, weed regularly
 - Use mulch to discourage weeds & retain moisture
 - Check drip system for proper function and coverage



Time watering to reduce evaporation

- *Cool temperature + still air = low evaporation*
- *Be aware of moisture / mold relationship*



**NO MATTER
WHICH DEVICE
YOU USE –
UTILIZE A
TIMER!**



USE THE WEEKLY WATERING NUMBER

- *The WWN is the amount of water in inches that your lawn will need each week.*



Weekly
Watering
Number

Enter your ZIP code here 

to receive your Weekly Watering Number.

www.regionalh2o.org

Aug 27-Sep 2, 2020 [more info](#)

WEEKLY WATERING NUMBER

- **Lawns: 100% of WWN**
- **Shrubs and Perennials: 50% of the WWN**
(newly planted plants may require more water)
- **Vegetables: 75% of the WWN**
(new starts may require more water)
- **Trees: WWN is not recommended for trees.**
Newly planted trees need regular watering for up to the first couple of years, while established trees may need a deep soak or two in summer.



IN CONCLUSION:

- Add more organic matter to your soil
- Protect your soil with organic mulch
- Reducing under-utilized lawn and replacing it with a variety of drought-tolerant native plants
- Choose the best time, method and duration for the plants that do need irrigated



Visit our website:
www.EMSWCD.org

