

Irrigation Management for Urban Trees

**Get Ahead or Get Parched Workshop
University of California, San Diego
July 18, 2014**

**Sam Oludunfe
ISA Certified Arborist #WE-8574AUM
Open Space Manager/City Forester
City of Chula Vista**

The ABCs ~

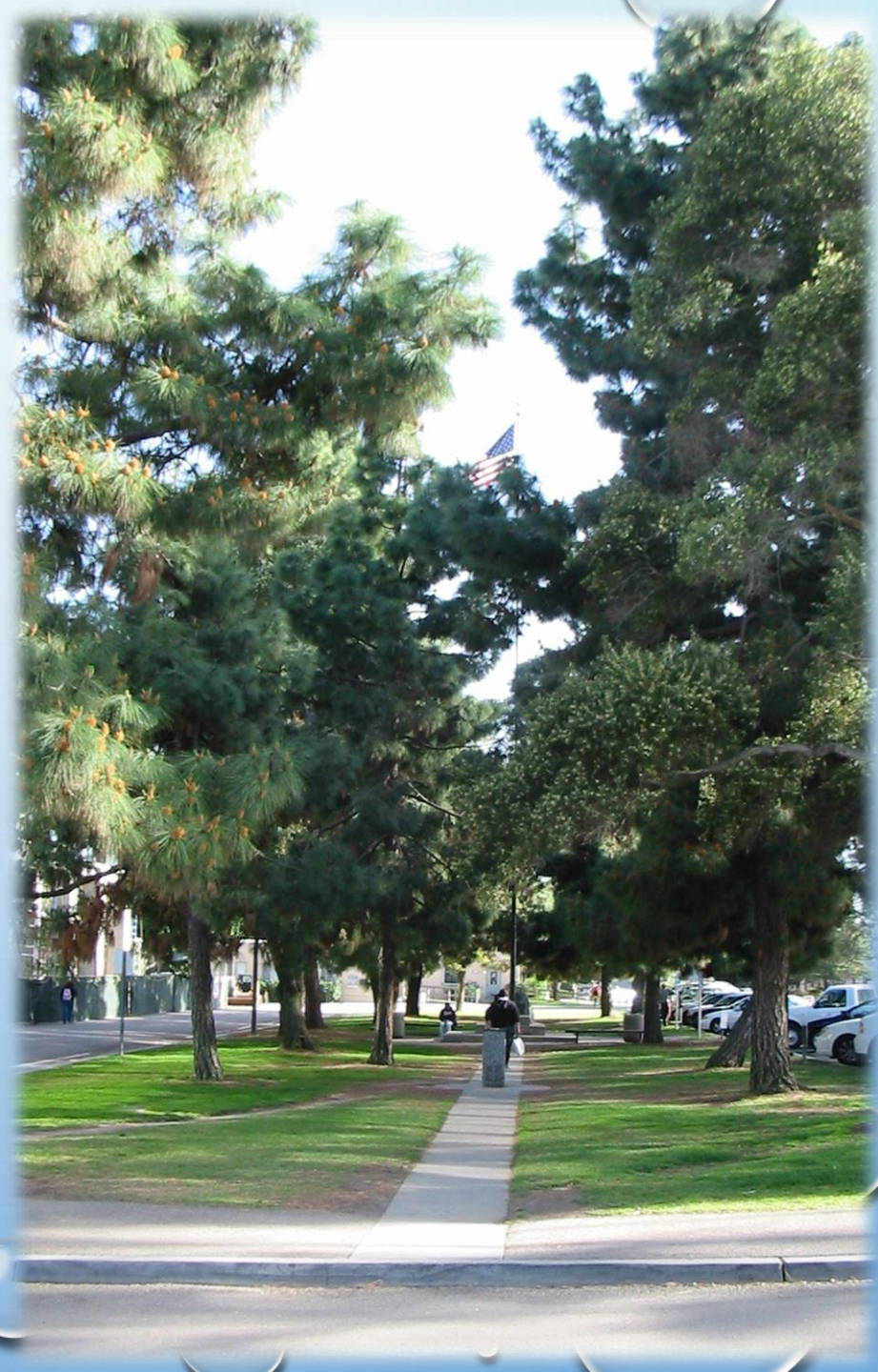
- Long-range objectives
- Site attributes
- Tree species selection
- Water source
- Irrigation method

Greening only makes
[great] sense when
the right tree graces
the right place for
the right purpose.



The Building Blocks ~

- Provenance?
No native or commonly used urban tree is drought-resistant until it becomes established.



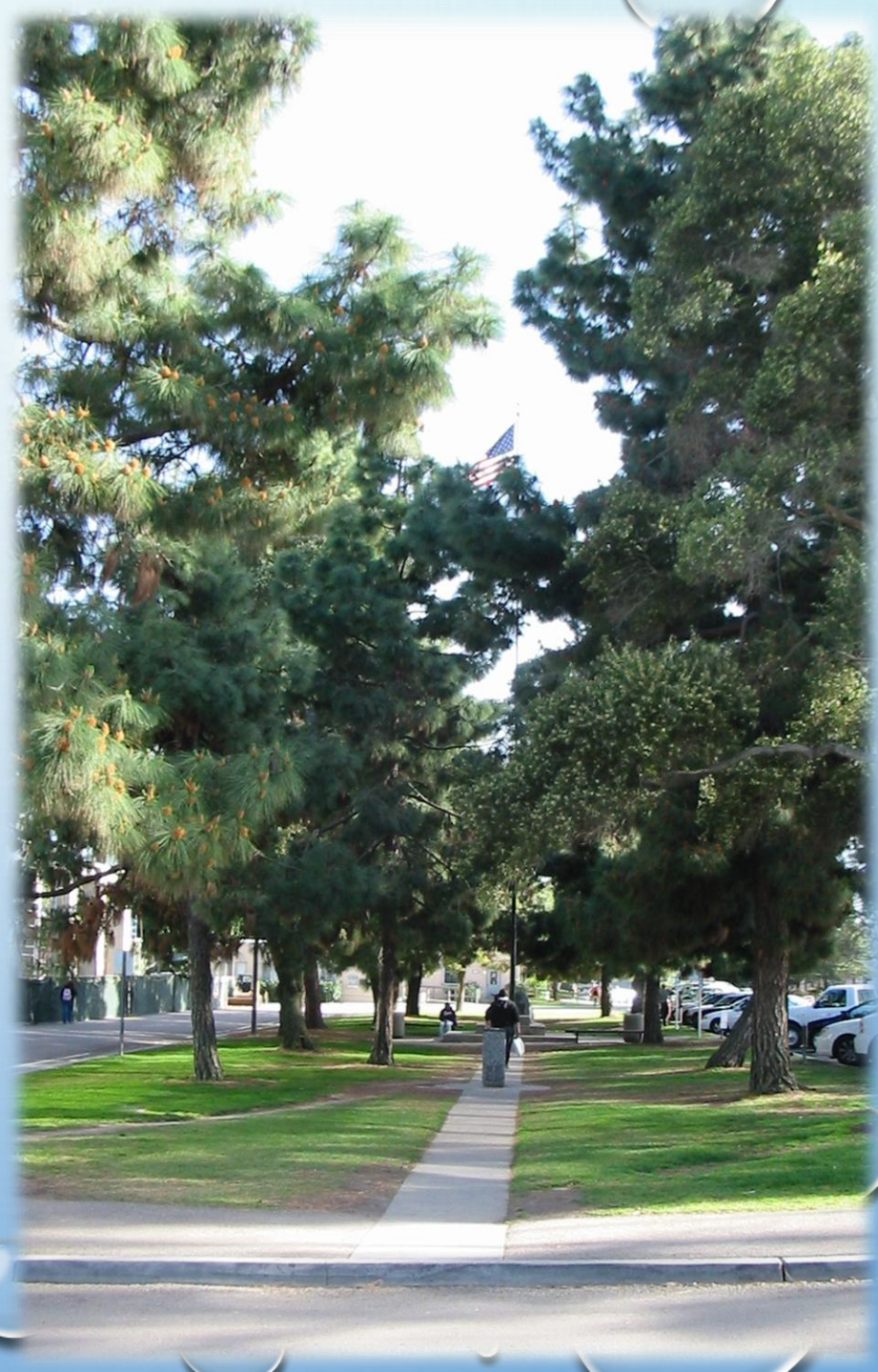
The Building Blocks ~

- Young Trees:
The roots of younger
trees are less
established
and
need *easier* access to
water to establish
deep root systems.



The Building Blocks ~

- Older Trees:
Mature trees require *MORE* water when growing near heat traps such as roadways, drive ways, and house foundations.



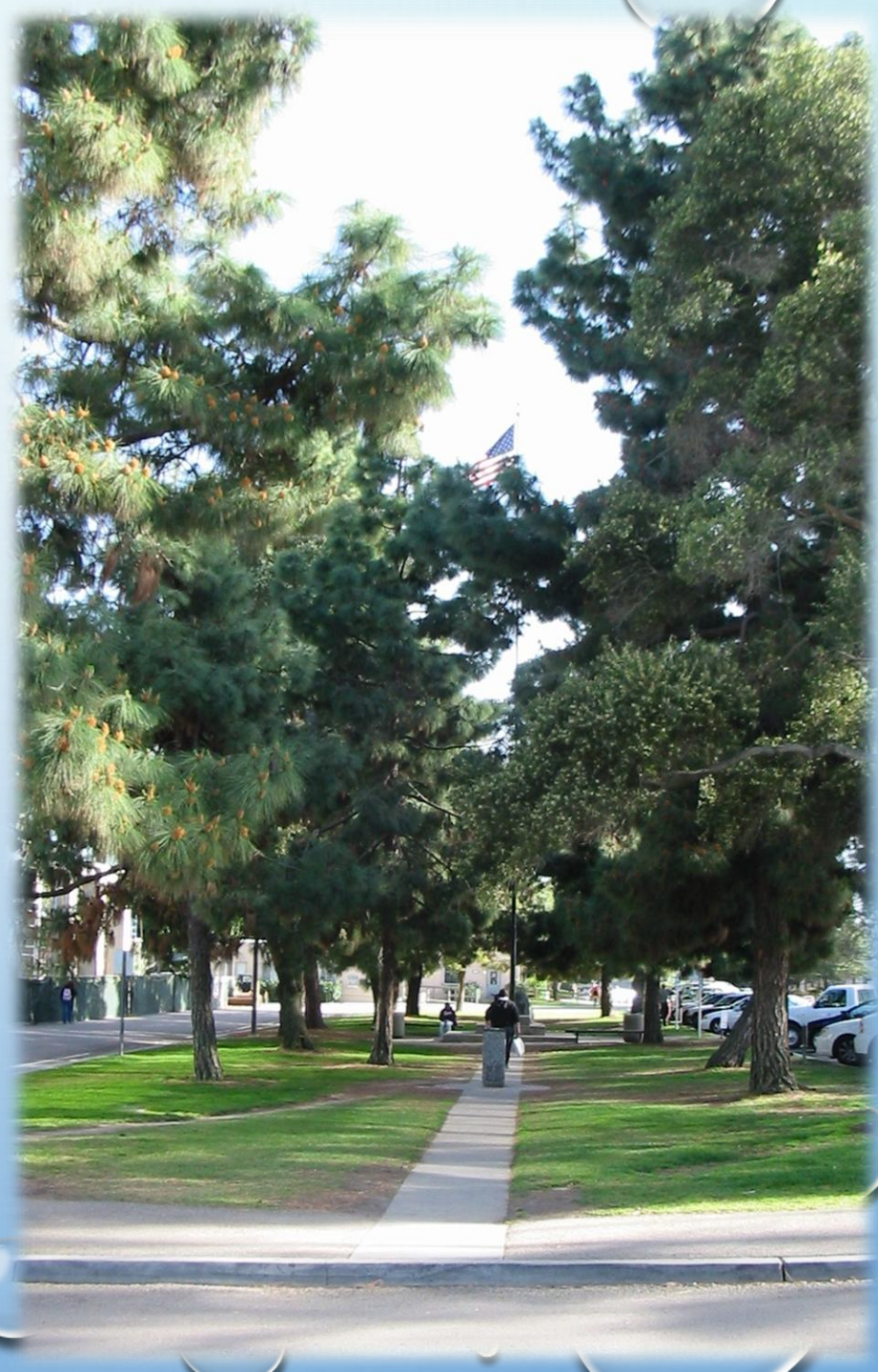
The Building Blocks ~

- Exposed Trees:
Water loss is greater
where trees are
exposed to hot
afternoon sun
and
strong or constant
wind.



The Building Blocks ~

Deciduous Trees:
The critical time
for water is during
bud-break in spring
and
bud formation
in the summer.



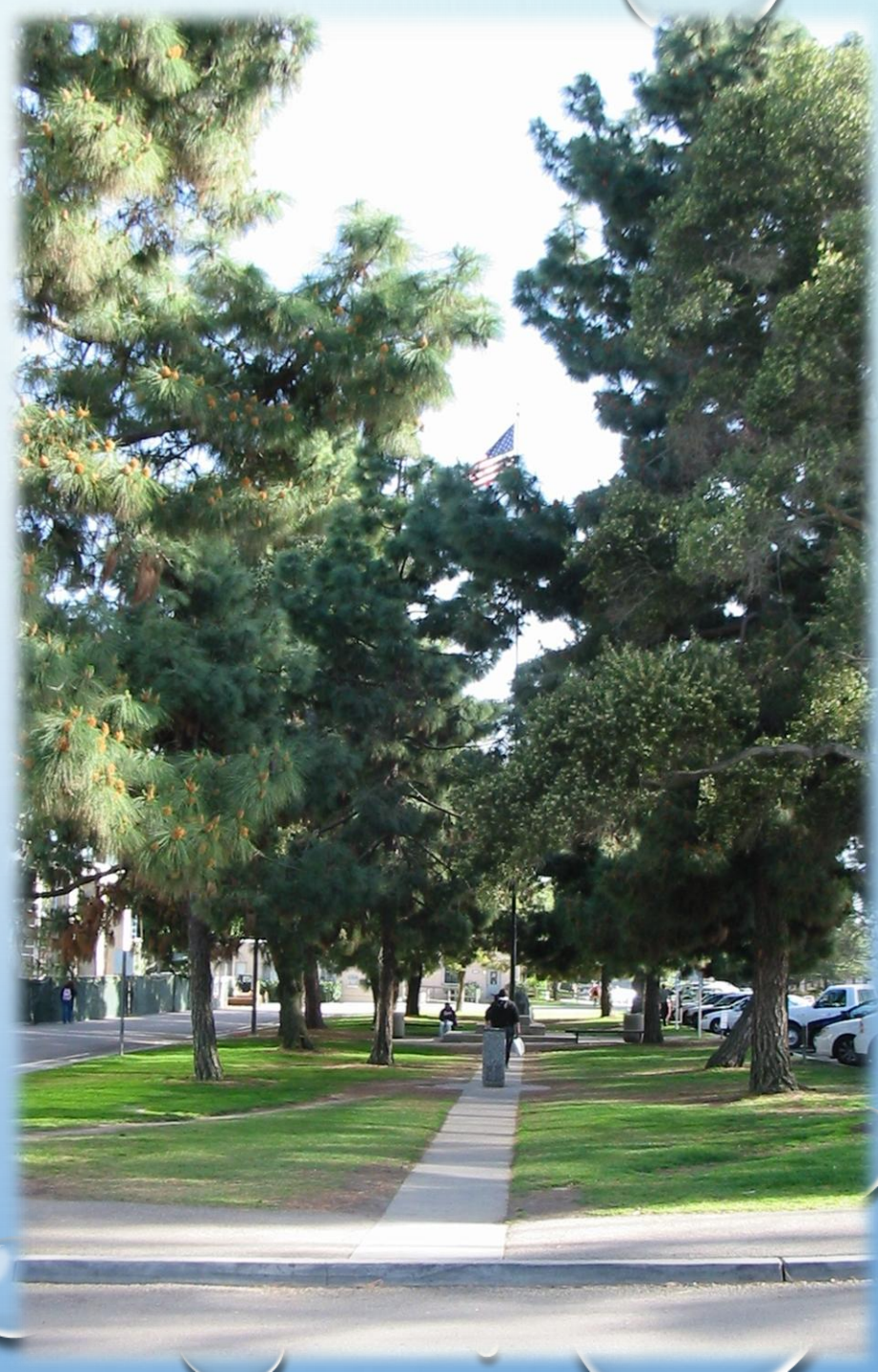
The Corollary ~

The Right Amount:
Water young trees
twice weekly
and
mature trees
once a week.



The Corollary ~

In The Right Place:
Water the tree's drip
zone – the area
directly under the
foliage and shaded by
the tree. Add mulch to
lower soil temperature
and reduce
evaporation.



The Corollary ~

At The Right Time:
Water early in the
morning or after
sunset. Less water is
lost to evaporation at
these times.



The Corollary ~

The Right Choice:
Plant native or
drought-resistant tree
species which require
less water. Choose
trees over lawns as
trees are a long-term,
high-yield investment.

