ARBORISTS: DROUGHT PUTS TREES IN TROUBLE SOME...

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By Robert Krier (/staff/robert-krier/) | midnight Dec. 23, 2015 | Updated , 8:05 a.m.

natural resource in urban communities, are threatened San Diego County's success at conserving water during the state's historic drought could have a downside: Trees, a cherished

back on watering could imperil the urban forest in the long term. Niño delivers the hoped-for abundance of rain this winter, residents' and businesses' pronounced shift toward permanently cutting That's the view of some arborists who said thousands of local trees are distressed or dying due to lack of watering. And even if El

Forests Council. "The benefits of those trees far outweigh the nominal expense of watering them." "We need to get the message out that people need to water their trees," said Mike Palat, chairman of the San Diego Regional Urban

provide habitat for wildlife Among other things, trees cleanse the air, sequester carbon dioxide, create shade, reduce soil erosion, raise property values and

Southern California, trees are often the inadvertent side casualties grass die or replacing it with fake turf or decorative rock. They said while these alternatives might seem appropriate for semi-arid Arborists believe many people have taken the conservation message too far, turning off their sprinklers completely and letting the

Diego Community Forest Advisory Board "This is an environmental policy issue, not a gardening issue," said Robin Rivet, an urban forester, arborist and member of the San

Increasing mortality

Sergio Arias, who has the bulky title of transportation and stormwater/street division horticulturalist for San Diego, said his crews have recently seen increasing mortality among the city's roughly 400,000 streetside trees

"I think a lot of the trees that were just holding on, waiting for El Niño, are starting to quit on me," Arias said.

And if the succession of storms does arrive, they may not do so until February or March Palat said the winter holds tantalizing potential of short-term moisture relief, but that El Niño doesn't guarantee ample precipitation.

"save-water-at-all-cost" mindset that they've developed during the drought. Rising water bills could give residents further incentive to minimize irrigation. Once the winter and springtime rains have passed, urban trees could face a sharp decline if well-intentioned residents maintain a

Local arborists have seen increases in pest infestations and diseases because trees are stressed by lack of water, Palat said

battle." "In wet years, trees have better defense mechanisms," he said. "In a drought, it's like cutting off your foot and then trying to fight a

Unfortunately, he said, removing dead trees is becoming a bigger part of local arborists' business

tree has gone past the point of recovery." "Lots of concerned people are reaching out to arborists," Palat said. "However, there is a common trend of the call coming when the

populations, and there is no census of the millions of trees on private properties in the county. region through West Coast Arborists. Many local cities, including San Diego, don't have an up-to-date inventory of their tree There's no official count of the number of dead or dying trees in the county, said Palat, who does contract work for most cities in the

trees - or 14,000 - had died in the past year property - 5 percent - are stressed or dying. A recent study in Los Angeles showed that 4 percent of that city's 350,000 parkland Delia Juncal, landscape coordination inspector for Oceanside, said about 2,000 of the approximately 40,000 trees on that's city

danger of losing at least tens of thousands of urban trees. There are many variables to consider, but if similar percentages of trees in the rest of San Diego County are affected, the region is in

Taking out turf

Californians this year "jumped the gun a little." Center, said he believes water managers' decision to offer turf-removal rebates to a dramatically greater number of Southern Kevin Grangetto, whose family owns Grangetto Farm and Garden Supply stores in Escondido, Encinitas, Fallbrook and Valley

diseases and pests are not far behind." "The turf serves as a biofiltration," Grangetto said. "Now we have salts concentrating in there. That weakens the trees, and the

better option is to replace water-guzzling grasses with native grasses or other low-water vegetation. In many cases, lawns were replaced with artificial turf or rocks, which don't provide the same benefits to the soil. Grangetto said a

alternative, pulls in more heat than concrete, Rivet said. That added heat can bake the soil beneath it, making it impervious to water. He also worries that when the rains do come, the ground may have trouble absorbing it. Gravel, which has become a popular lawn

"Five years down the road, if you want to take out that gravel, it's difficult to undo the damage that gravel has done," Rivet said

Artificial turf also adds heat around a home, she said, and it has "no environmental justification. It's an outdoor rug

included retrofitted irrigation systems grant funding ran out, likely had a positive effect on the region's tree cover - if property owners followed the recommendations that about reports of stressed and dying trees. He said the agency's turf replacement program, which was suspended in January when Carlos Michelon, a principal water resources specialist for the San Diego County Water Authority, said the agency is concerned

"The classes emphasize the important role played by trees for shade and climate, and the need to maintain tree cover in our "In conjunction with the rebate program, the water authority offered numerous classes on water-smart landscaping," Michelon said.

Improper watering

soak down deep enough, said Ted Stafford, an arborist who has been tending to trees in San Diego County for 40 years San Diego County had unprecedented rains in May and July, but those storms did little for most trees because the moisture didn't

angle is lower, is the "magical time" for local trees, Stafford said. That's when the moisture can get down deep into the root zone. A fairly wet fall has helped, but January through March, the typical rainy season when the days are cooler and shorter and the sun During the past four years, San Diego has had far below its usual winter rainfall, and the trees have suffered because of it.

Stafford said maybe 5 percent or 10 percent of people water their trees properly. He sees the drought as a teachable moment.

the drip line (outer edge of the tree's branches). If you want to make a tree happy, it's all about managing the root zone. A tree wants "I really believe strongly that the drought is an opportunity for trees," he said. "You've got to get the water down 18 to 24 inches at a deep watering, but it only needs it once a month to be happy. I'm trying to get people hip to that."

could water 251 trees with what it takes to maintain one lawn Diego Regional Urban Forests Council. He referenced a graphic from a Los Angeles group called Tree People that showed a person Because trees need water infrequently, they end up using far less water than many other landscape plants, said Palat at the San

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Drought

Drought County could potentially lose tens of thousands of urban trees

How to help trees through the drought

Be observant. Look for subtle changes such as leaf drop or browning needles

the tree's perimeter, not at its base. Water deeply but infrequently, using a soaker hose or drip system. The water should reach a depth of 18 inches or more. Water at

Create a soil berm around the perimeter of the tree.

Put a 2- to 4-inch layer of organic mulch away from the trunk to the outer edge of the canopy.

Signs of tree stress

Browning or dead twigs and branches.

Yellowing foliage and early leaf drop.

Abnormal cracks in the trunk.

Bark sloughing off the trunk excessively.

Lines of ants going up the tree. Ants often harvest tree pests' byproducts.

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