Sanibel Island Schinus: terribleitsbeenforus

Over the past year, I've gazed into the loaded beds of the many tree service and landscape trailers leaving Sanibel Island each evening. No, I don't have a deep-seeded affection for yard tools. I do have a subconscious desire to know what kind of vegetation is involuntarily leaving the fair island. I've decided that "science and compliance" are the culprits driving this desire.

Sanibel has some of the state's strictest vegetation standards and native plant-protecting ordinances. As the city's "Conservation Officer," I should try to keep tabs on what plants are leaving Sanibel, and what parts of the island they're being taken from. The island seems to be a "bottomless pit" of vegetation. Sometimes I think there's a secret place on the island where trucks are issued loads of horticultural waste. The number of vegetation-laden trucks moving around Sanibel seems to have increased over the past year, and my interest in this phenomenon has peaked. My only consolation is that many of the trucks scurrying around Sanibel are loaded with the exotic pest plant Brazilian pepper (*Schinus terebinthifolius*).

Of all of the invasive exotic plants in Florida, I believe none are as recognizable and ubiquitous as Brazilian pepper. And the area occupied by this plant increases yearly. The South Florida Water Management District's 1997 survey estimated that pepper has invaded more than 660,000 acres in South Florida. That's a whole bunch of truckloads!

Why is this plant continuing to spread across Florida? Most places where pepper is already established are not being controlled, and this plant seems to be invading new areas before our eyes. I would compare it to time-lapse photography in "real-time." Is it a lost cause? I think not. Sanibel Island has recently adopted a Brazilian pepper removal program (Sanibel: Pepper Free!). It hopes to rid the city of Brazilian pepper by 2010. Public awareness and support, an enthusiastic city council and governmental incentives to private property owners have helped launch this program. The rest of the Florida should follow

I'm a pepper You're a pepper He's a pepper She's a pepper Wouldn't you like To kill of a pepper or two? -Dan Clark suit. It may take longer (and cost more money), but don't we have the responsibility to take hold of the beast that's eating our state!? -Dan Clark, City of Sanibel Conservation Officer.



Barbara Waddell (left, Pepper Patrol of Ruskin) and Ken Langeland (skinny guy with the big beard, University of Florida, IFAS) take a welldeserved break.

The Pepper Patrol of Ruskin gives 'em hell. Photo by Ken Langeland.

Did you know?

Brazilian pepper (*Schinus terebinthifolius*) is thought to have been introduced into Florida in the 1840s as a culti-

vated ornamental plant. Schinus is the Greek word for mastic-tree, a plant with resinous sap, which this genus resembles. The species name, terebinthifolius is a combination of the genus name Terebinthus and the Latin word folia, leaf. It refers to the leaves of Brazilian pepper that resemble the leaves of species in the genus Terebinthus.



Bust This!

Schinus, it's not shy. Brazilian pepper covers well over one-half million acres of the state. Many hands make light work, and coordinated efforts are needed to protect our conservation lands from this pest plant. "Pepper Busting" has become downright trendy, increasing in popularity in many pepper-infested areas of Florida. It's a great way to get people interested in the problems caused by Brazilian pepper and other exotic plants, and provides a trained volunteer labor force for cost-effective pepper control.

Pepper Busting in Three Easy Steps...

1. Gather up a group of friends (or enemies, depending on the heat index), and find an offending bunch of Brazilian pepper. Keep in mind that some people are sensitive to Brazilian pepper sap, and can develop a nasty rash if they handle any part of the tree. (Sensitive types can still help Pepper Bust by supplying refreshments to other workers...)

2. If you don't own the property that the pepper is growing on, be sure to get permission from the property owner before you "bust" anything. Don't assume everyone is as enlightened as you are, and wants to rid Florida of this noxious weed. Vegetation vigilantes may find themselves fighting such charges as physical and chemical trespassing, criminal mischief, and destroying private property..., so I hear.

3. Evaluate the site, and use one of the following control techniques. Note: Only those herbicides that are recommended for Brazilian pepper control should be used. They are safe and effective when used correctly. If you're in doubt, contact your local county extension agent, and ask him/her for site-specific training and advice.

1. The need for more information on the whys, **Cut Stump** wheres, and how-tos of Brazilian pepper removal Cut the pepper down and treat the stump with was confirmed at the Brevard County Brazilian herbicide. A saw should be used to cut the trunk as close to the ground as possible. Apply a herbicide that contains the active ingredient glyphosate or triclopyr immediately (within 5 minutes). For large stumps, concentrate the herbicide on the thin living tissue Pepper Symposium held in the fall of 1994. The Brevard Pepper Busters were formally organized (cambium) just inside the bark. The best time to use this method is when the in 1995. This group has developed a training pro-, pepper is not fruiting. Dragging the branches around might spread the gram and a draft Pepper Buster Manual. They seeds into other areas and cause future problems. maintain a master list of approximately 50 people the Basal Bark treatment on fruiting who have completed the training, and have orpepper trees if you're worried about seed dispersal. ganized pepper busting activities for more than 5. Representatives of the Cedar Key 100 volunteers countywide. The Brevard Pep-**Basal Bark** (Levy County) Garden Club kicked off per Busters have successfully treated ap-An appropriate herbicide is applied Pepper Free Cedar Key on March 4th of to the bark of the tree from 1-15 proximately 15 acres of Brazilian pepper. A this year. Cedar Key pepper busters have feet above the ground. You closely-related program, the Johnny Manmapped all of the pepper on the island, co-operated with IFAS and DEP on a Brazilian must use a herbicide that grove Seed Pepper Buster Program, orga-nized by the Marine Resources Council contains the active ingredient riclopyr (ester) with a penetrating pepper control demonstration, and developed oil. "Ready to use" products are also available if you don't want to of East Florida emphasizes education a series of public information news releases. and restoration. Training will be provided for all volunteers, inmix the herbicide with an oil. You cluding the DACS Forestry Youth Academy. don't have to cut or girdle the tree's Pepper removal will get into full swing in July, trunk - the herbicide will pass through the bark and into the tree. 1998 - as soon as clam farmers are assured that 2. St. Lucie County Commis-Basal bark treatments work best in the Pepper Busting herbicides pose no threat to sioner Cliff Barnes has recognized the fall when pepper trees are flowering their interests. the importance of increasing pub-This method is also recommended when the trees are fruiting. lic awareness and garnering sup-3. A smaller, but no less dediport for removal of Brazilian pepcated group of pepper busters, is the *Pepper Patrol of Ruskin* (Hillsborough per from public lands. His sup-A herbicide containing triclopyr or glyphosate is sprayed directly onto the leaves of the plant. The herbicide port led to the establishment of County). Under the ambitious direction the highly successful St. Lucie will be taken into the leaves, and of Barbara Waddell, the Pepper Patrol has Pepper Busters. This group has will move through the rest of the undertaken several pepper removal and 100 volunteer members. Trainplant. This method is best to use native plant restoration projects. They have on pepper seedlings and small ing is conducted in cooperation also produced a public information circular saplings. Avoid using this with the County Cooperative Ex-"Brazilian Pepper - Beautiful but Bad," and method in areas where you tension Service and IFAS. IFAS Circular SS-AGR-17 "Brazilian have lots of desirable cooperated with the Hillsborough County plants because it Cooperative Extension Service in training Pepper-tree Control" was develwon't give you oped as part of the St. Lucie Master Gardeners on Brazilian pepper conselective trol and other invasive plant problems. control County effort. In addition, efforts have resulted in securing over \$500,000 in grants for Pepper removal and restoration. Pepper Busting works. If you are interested in additional information on the programs mentioned in this article or interested in starting a new Pepper Buster group, contact

the Florida Exotic Pest Plant Council (EPPC). If you have a Pepper Buster group and we missed you in this article, contact us so that we can add you to the statewide list. For more information about Brazilian pepper, check out the Brazilian Pepper Management Plan for Florida on the FLEPPC website at http://www.fleppc.org -Ken Langeland, Professor, University of Florida, IFAS (kal@gnv.ifas.ufl.edu).