





Melanie Doyle and Dale W. Suiter February 2013











Beach Vitex

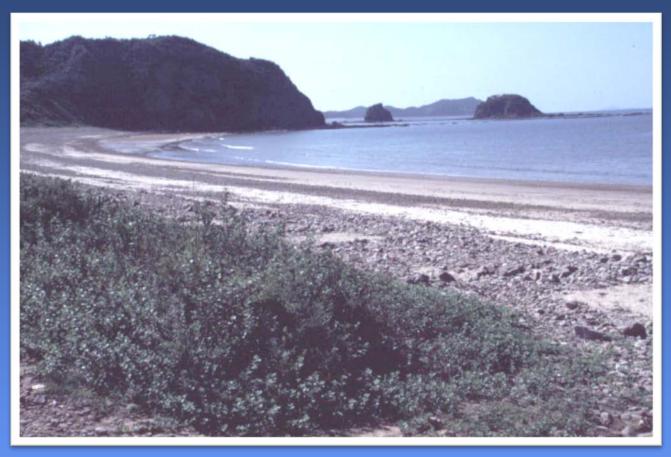
- Beach Vitex (Vitex rotundifolia)
- Plant family: Verbena (Verbenaceae)
- Habit: Generally a woody vine
 - can grow upright when sheltered or cut/trimmed
- Habitat: Sand, full sun



From Whence It Came...

 Western Pacific Korea to SE Asia, Malay Peninsula to India Pacific Islands (Hawaii?) Kazakhstan Mongolia Wando Island, S. Korea China

How?



"We saw it in Korea last year where it is native — there it is the last plant to survive farthest out in the sand dunes toward the water."

J.C. Raulston, Arboretum Newsletter, Vol. 14, 1986







"Pōhinahina" in Hawaii





"It has great potential for the entire coastal area of the S. E. U. S. from Maryland to Texas... we want to encourage use of this fine plant as much as possible in its difficult introduction phase"

J.C. Raulston, Arboretum Newsletter, Vol. 14, 1986

Invasive Qualities of Beach Vitex

• Fruits float



Stems root at the nodes



• 20,000 seeds m²





Grows rapidly (up to 25 ft per year)



One Season's Growth, about 17'



Sea Turtle Nest laid on July 22, 2006



Same Nest on August 15, 2006

Photos by B. Brabson



Beach Vitex roots were growing into nest when eggs were relocated.

Photo by B. Brabson



Masonboro Island, New Hanover County

Task Force Plan of Attack

- Surveys
- Education
- Partnerships
- Funding
- Regulations
- Eradication



Proper Identification



Beach Vitex



Seabeach Amaranth



Beach Croton

Seashore Elder



Distribution in North Carolina



- NC has over 300 miles of (linear) coastline
- •B.V. has been found in 7 of the 10 coastal counties
- Over 1000 known sites/ colonies in NC



Public Education

Beach Vitex Task Force

In 2003, a workshop on beach vites was hosted by the North Index Weigh Bay National Estument Research Reserve in Georgetown, SC. This workshop brought traction private eitheren, personnel from afterent state and Foderal agencies, and expresentatives from non-positi organizations, resulting in the formation of the South Carolina Reach Witex Tails Force. In 2005, North Carolina joined the effort and the name was changed to the Carolina Seath Vitex Tails Force. In 2005, and became a member in 2009 and the name simply became the Beach Witex Tails Force. The objectives of the Tails Force are to:

- 1. Descet and map beach vitex populations.
- Conduct an ecological assessment to determine beach vitex's impact on native plants and arimals.
- Research and implement environmentally sound methods for removal.
- 4. Restore affected areas with mative plants.
- Educate homeowners, landscapers, and the general public about beach vites.



What can you do to help?

- Dur't plant beach cites. Contact the Beach Vites Task. Porce for a list of heneficial native plants that can be used in landscaping.
- 2. Nough the Teak First of any potential heads were now may find. Lame for to identify leads into and here is also grain first plant from making plant. Don't type of only resourceal yourself. The Task Force is imapping all locations in an effort to mention this plant. Take note of where you have seen beach vines and subsuit an online capper at wine-beachiness, one. Proteographs can also be submitted.
- Valuation? The Task Force needs welconsecry to mornton our braches and to help with projects. Ger involved!!





For more information and to report any suspected beach vitex locations, please contact:

Betsy Brabson, SC BV Task Force Coordinator (843)546-9531 wbrabson@secoast.net

Melanic Doyle, NC BV Task Force Coordinator (910)458-8257 ext. 250 melanic.doyle@ncaquariums.com

Lee Rosenberg, VA BV Task Force Coordinator (757)664-4373 lee.rosenberg@norfolk.gov

or visit the website at:

http://www.beachvitex.org



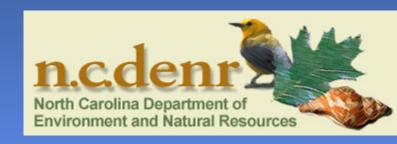




Partnerships Beach Vitex Task Force in NC 50+ Partners in NC:



- 20 coastal communities
- 6 Divisions within DENR
- NC DOT, NC DA&CS
- Five university affiliates
- Three federal agencies
- Three conservation organizations



NC STATE UNIVERSITY





FUNDING

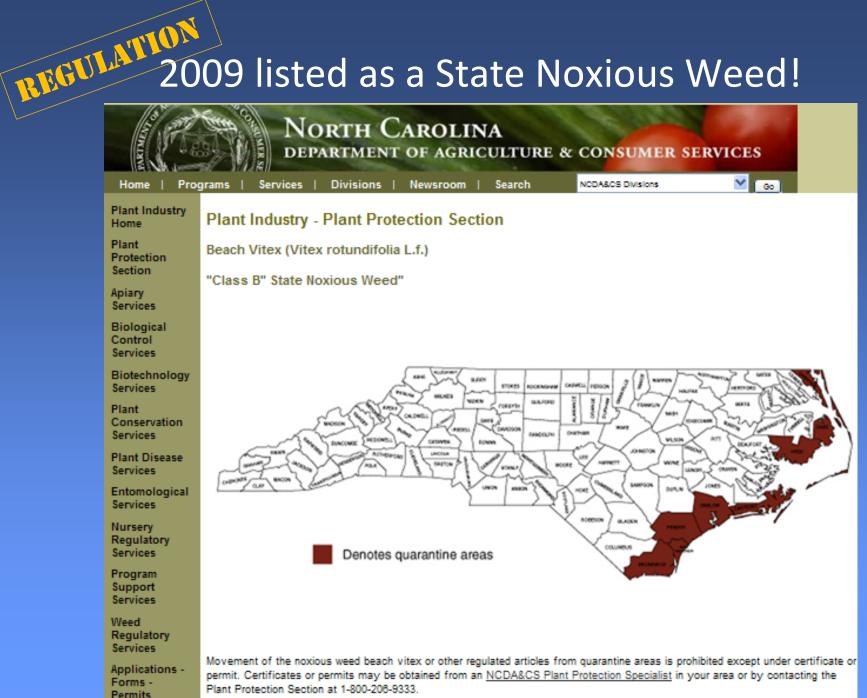
National Fish and Wildlife Foundation Grant \$130,000

- November 2007, the NC BVTF was awarded a grant from the National Fish & Wildlife Foundation
- 5 year grant for eradication and education work in NC
- Requires a match from recipients, "in kind" work included
- Managed through the Raleigh Field Office USFWS



TASK FORCE

2009 listed as a State Noxious Weed!



ERADICATION

Progress: 95 % of sites treated

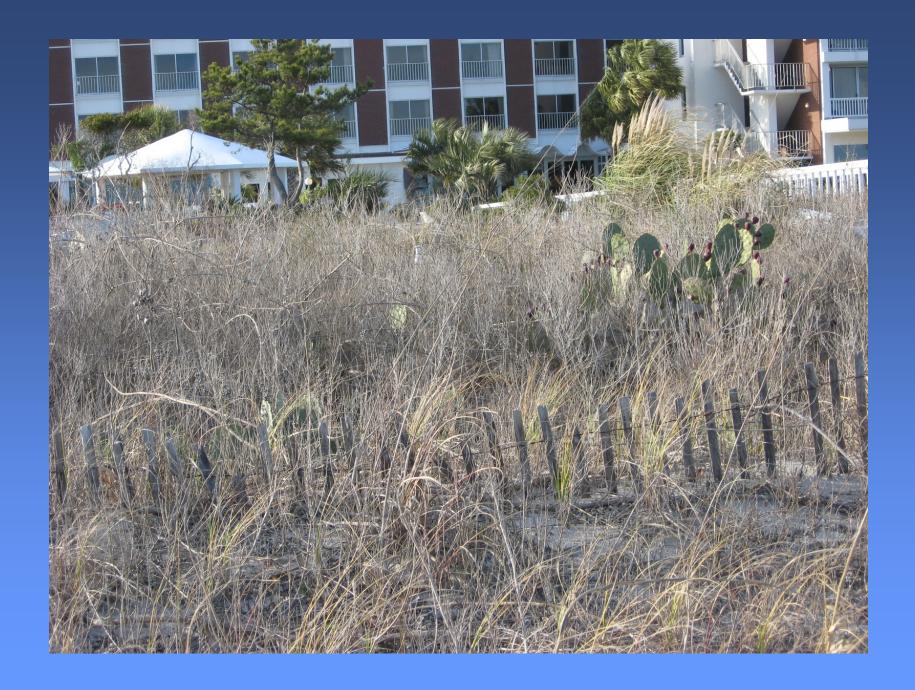
Beach / Island	No. Sites	No. Sites Treated	Percent Complete
Outer Banks	27	27	100
Bogue Banks	130	116	89
Topsail Island	285	265	96
Figure Eight Island	78	78	100
Wrightsville Beach	57	57	100
Masonboro Island	17	17	100
Carolina / Kure Beach	23	20	87
Bald Head Island	250	250	100
Oak I. / Caswell Beach	54	54	100
Holden Beach	5	0	0
Ocean Isle	10	10	100
	936	894	95.5



(Vitex spreadsheet woes, Winter '09)

State	City	Address	Lattitude	Longitude	Rank	Notes	P.L. Received	Treated
						In landscape at back of green house & on dunes		
NC	Wrightsville Beach	15 North Ridge Lane	34.2253669	-77.7819479	3		11/4/2008	Yes
NC	V				3	the vacant lot		
	Wrightsville Beach	13 North Ridge Lane	34.225571	-77.7818513		landscaped in back of house	Yes	Yes
	Wrightsville Beach	9 Southridge Lane	34.2255177			in dunes	10/7/2008	Yes
	Wrightsville Beach	11 Southridge Lane	34.2252117	-77.782039	3/4	in dunes	Yes	Yes
_	Wrightsville Beach	18 Southridge Lane	34.2250076	-77.7821141	3	at NE end of parking lot	11/7/2008	
<u> </u>	Wrightsville Beach	Access #4 2398 N. Lumina	34.2266355	-77.7815723	2	a few plants	Yes	Yes
	Wrightsville Beach	Access #9 1700 N. Lumina	34.2183763	-77.7863896	1	Large colony	Yes	Yes
	Wrightsville Beach	Mallard Street Access #10	34.2176488	-77.7869797	3/4		10/7/2008	Yes
	Wrightsville Beach	10 Mallard Street, Unit 1	34.2172319	-77.787087	2	Spreading from access 10	Yes	Yes
	Wrightsville Beach	10 Mallard Street, Unit 2	34.2171786	-77.7871513			Yes	Yes
	Wrightsville Beach	2604 N. Lumina	34.2327916	-77.7767658	3	lots and lots of Beach Vitex here	10/10/2008	Yes
	Wrightsville Beach		34.2330222	-77.7765512	3		Yes	Yes
	Wrightsville Beach	2608 N. Lumina	34.2331819	-77.7763796			Yes	Yes
	Wrightsville Beach	2304 N. Lumina			1			Yes
	Wrightsville Beach	15 Palmetto Drive	34.2204257	-77.789737	2	on lattice in front of steps	Yes	Yes
	Wrightsville Beach	103 Parmele Blvd	34.2195917			street-side corners, by mailboxes	11/7/2008	Yes
	Wrightsville Beach	105 Parmele Blvd	34.2196805	-77.7887392		couple of sites, all dead	11/7/2008	Yes
	Wrightsville Beach	200 Parmele Blvd, Public Works			2	seen from beach - single plant on dune		Yes
	Wrightsville Beach	2400 N. Lumina, Duneridge Condos			1+	A medium-large colony		Yes
	Wrightsville Beach	10 Cowrie Lane	34.2227766	-77.7832139	3	Spreading	10/6/2008	Yes
	Wrightsville Beach	8 Cowrie Lane	34.2229451	-77.7836967	4	Spreading	Yes	Yes
	Wrightsville Beach	6 Cowrie Lane	34.2230338	-77.7840185	4	small amount	10/9/2008	Yes
	Wrightsville Beach	5 Cowrie Lane	34.2233266	-77.7837396	3	Siliali amount	Yes	Yes
	Wrightsville Beach	3 Cowrie Lane			1			Yes
	Wrightsville Beach	1 Cowrie Lane	34.223504	-77.7845228			Yes	Yes
	Wrightsville Beach	4 Sand Dollar Lane	34.223983	-77.7839863	1	medium colony in front	Yes	Yes
	Wrightsville Beach	2 Scotch Bonnet			2	on property line in back		Yes
	Wrightsville Beach	4 Scotch Bonnet			1			Yes
	IVVIIginisville Deach	T Ocoton Donnet						105









W.B., Oct 2009



Conch Lane, 2009







Masonboro Island plants





2009, mid April





