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Phragmites australis: Ecology and Management in Virginia

Kirk J. Havens Virginia Institute of Marine Science

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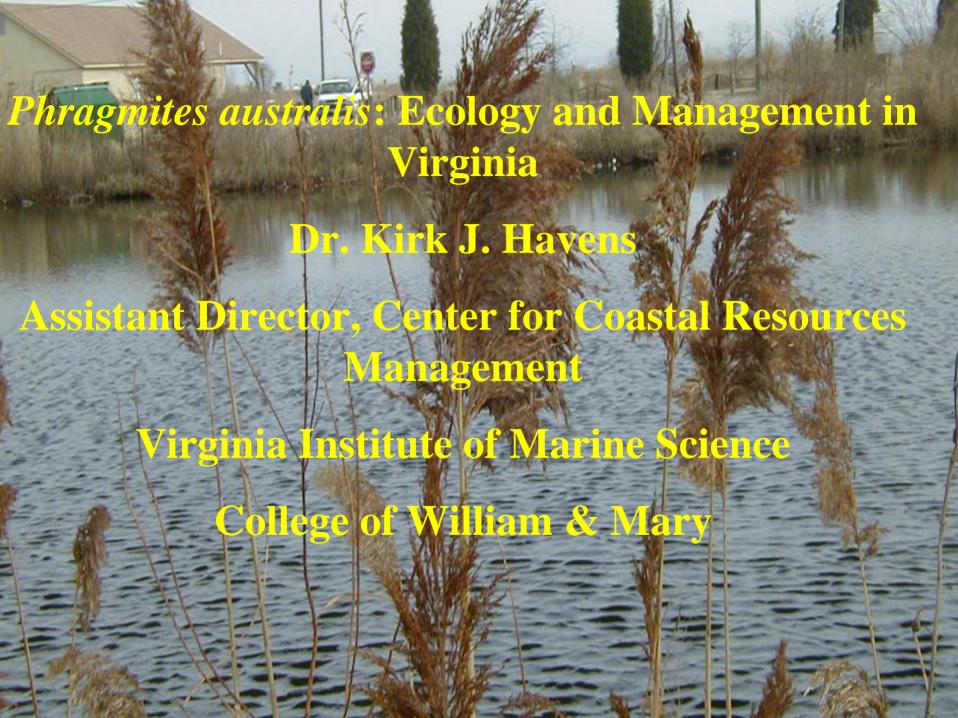


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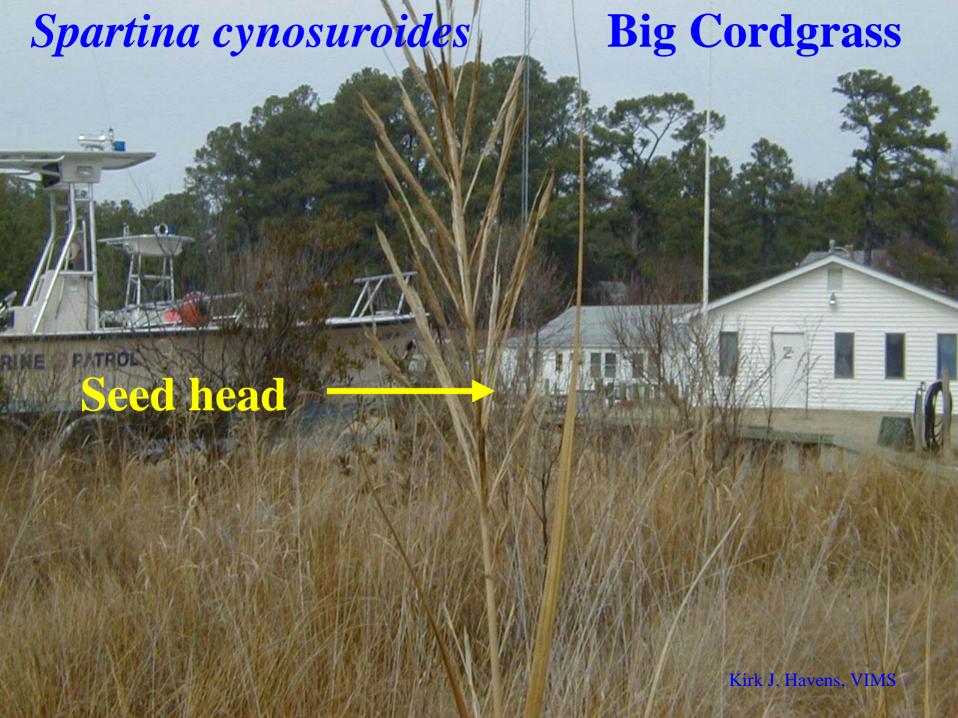
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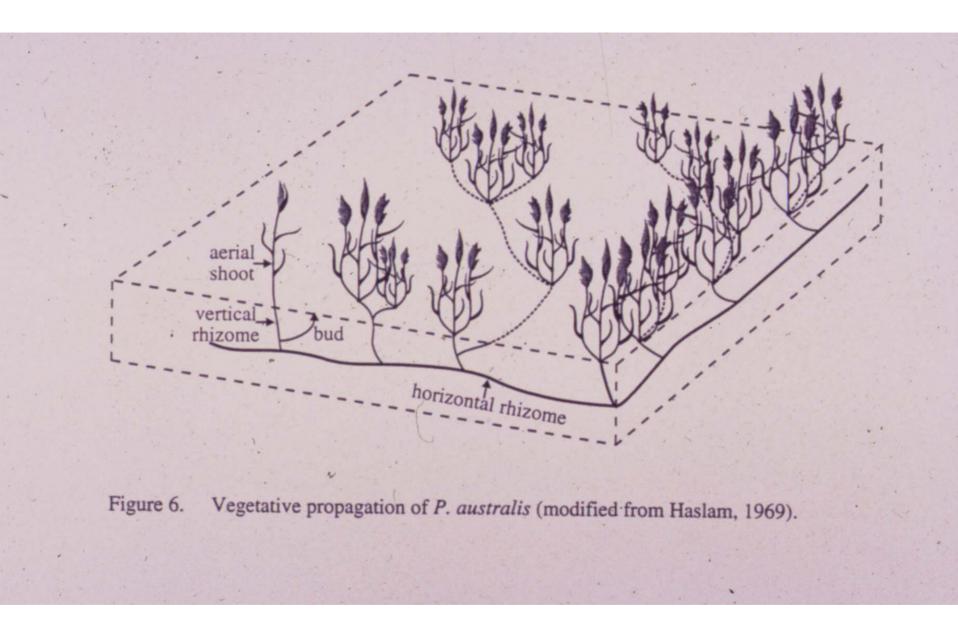






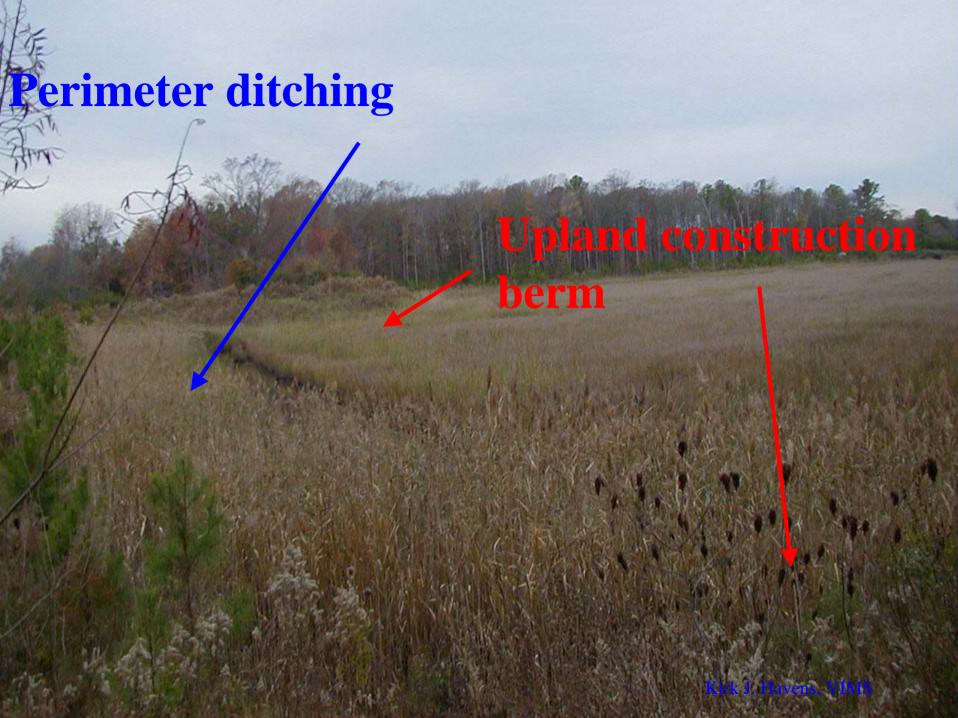














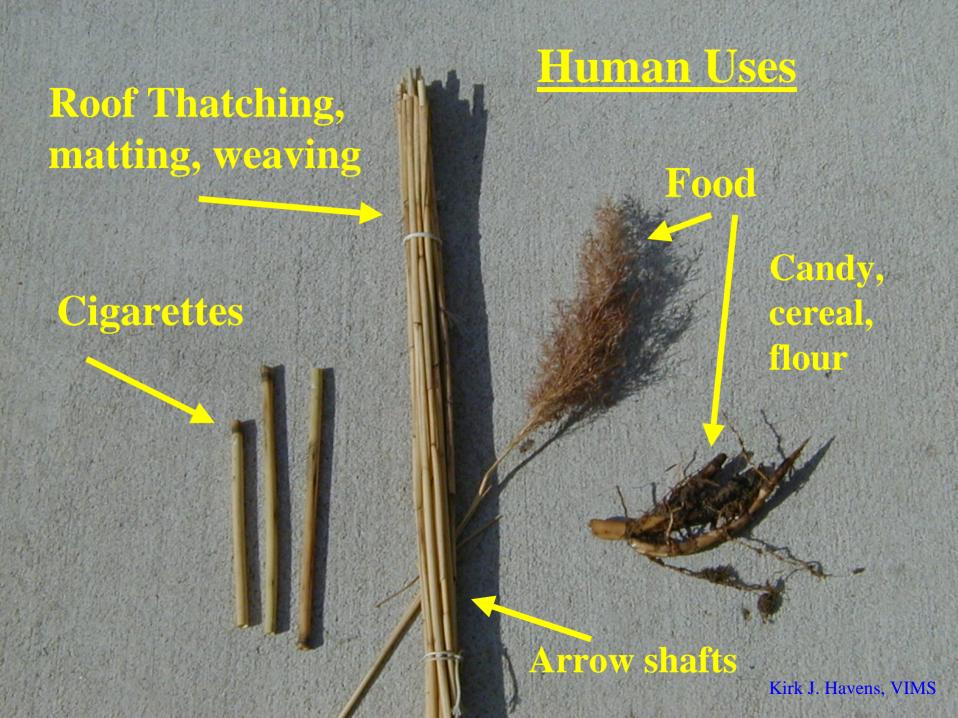












Edible Phragmites

Young stems, while still green and fleshy, can be dried and pounded into a fine powder, which when moistened is roasted like marshmallows. The tiny reddish seeds can be ground into flour or made into greet. The rhizomes can be crushed and wasked to obtain flour.

Roasted Phragmites Rhizomes

12 Phragmites rhizomes (6 - 8" long)

Wash thoroughly. Bake in oven at 350F for 25 to 30 minutes. Taste like baked potato jackets.

Boiled Phragmites Shoots

14 Phragmites shoots

Gather emerging shoots in the spring. Peel off covering layer until you reach the center of the stalk. Add to small amount of boiling water. Cover, lower heat, and cook 10 minutes or until tender.

Phragmites Gruel

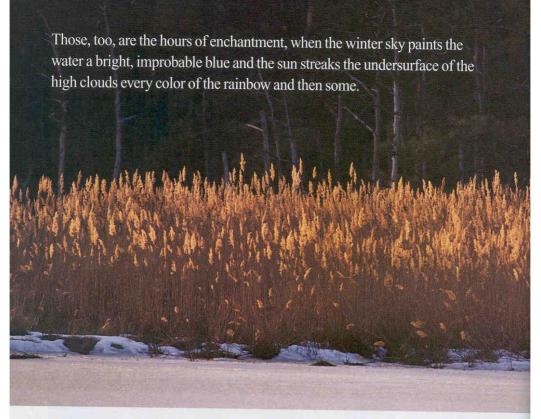
1/2 cup seeds of Phragmites 2 cups boiling water

Collect a dozen or so seed heads.
Remove the seeds and crush. Add to boiling water. Cover and cook slowly until a thin, red-colored gruel is formed. Cool and eat. Milk and maple syrup compliment dish.

Phragmites Greens

1 cup young, unfolded leaves

Collect, wash, and add to small amount of boiling water. Cover and cook over low heat for 10 minutes. Serve plain or with butter and salt and pepper.



their characteristic honking mimics the crowd noise that drifts out of a fully packed stadium.

Blackwater manages both crop fields and freshwater impoundments to provide food for the migrants, and the efforts are well rewarded. Lesser snow geese, mallards, pintails, black ducks, teal, and many more annually flock to the refuge along with the Canada geese. "It is outstanding from the birder's perspective," says Glenn, "because you've got a large diversity of waterfowl and other migrant species as well. Plus, there may be as many as 200 bald eagles here on the refuge at any one time during January. It's pretty astounding. I had several friends come visit from some of the more Southern refuges just after I moved here, and they were amazed at the amount of wildlife. Not very many places have the opportunity for people to see and interact with wildlife as closely as they can at Blackwater."

The refuge's 5-mile Wildlife Drive affords

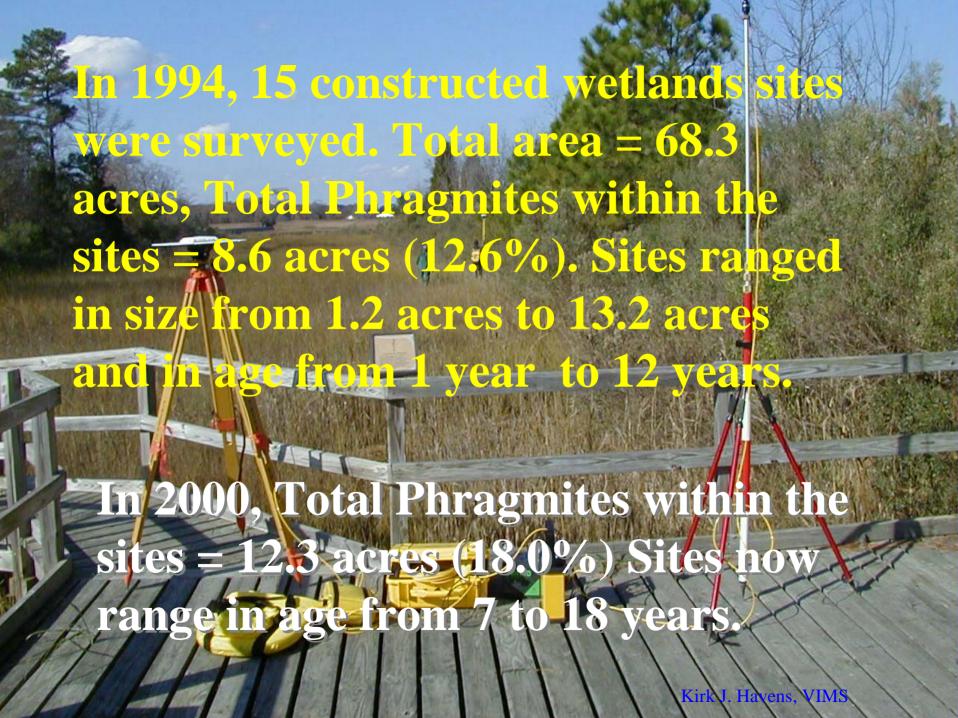
best access to that diversity. It crosses the Little Blackwater River, then scallops along the northern shore of the Blackwater River, riding atop a dike that divides freshwater from tidal. It cuts through forest and marsh, linking with two short hiking trails-one that explores the marsh and the other woodland habitat. But even if you never leave your car. the views can still be spectacular, making bird watching exciting and easy for neophytes and even children.

"Go in the early morning or late afternoon," urges Glenn. "That's the feeding period for most of the birdlife here, so they're going to be active and moving around more. And if you get here fairly early in the morning, eagles are almost as easily seen along the Wildlife Drive as Canada geese. It's very, very, very rare to take the Wildlife Drive and not see a bald eagle, but you need to go early. That's just the way it is in the natural world. If you want to see wildlife,



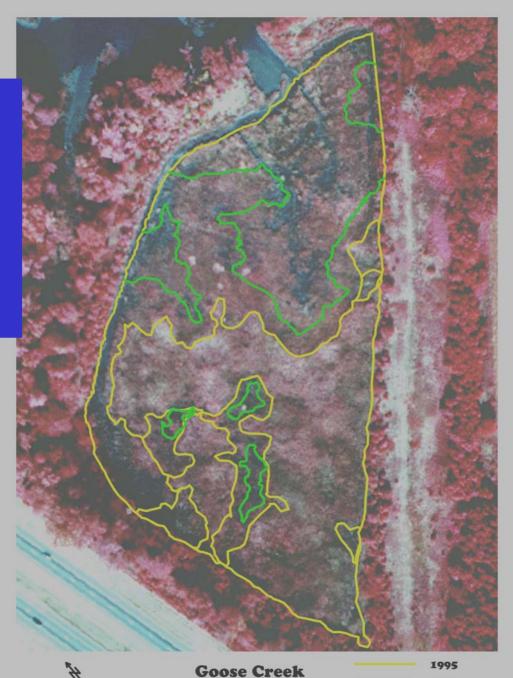
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Percent
Phragmites in
1994 = 36.9%

Percent
Phragmites in
2000 = 72.3%



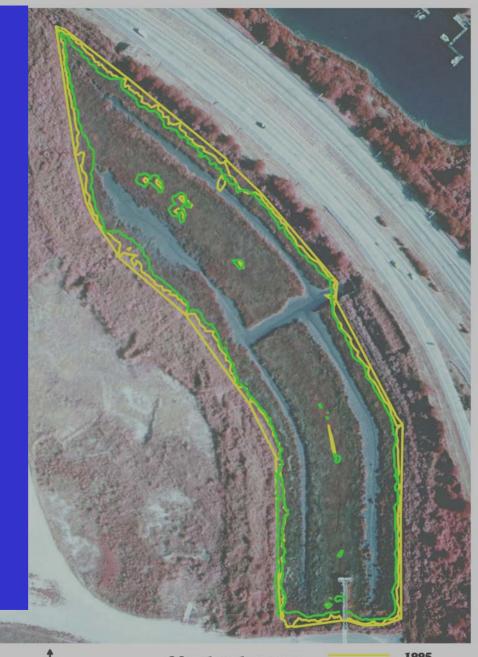
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Percent Phragmites in 1994 = 9.3%

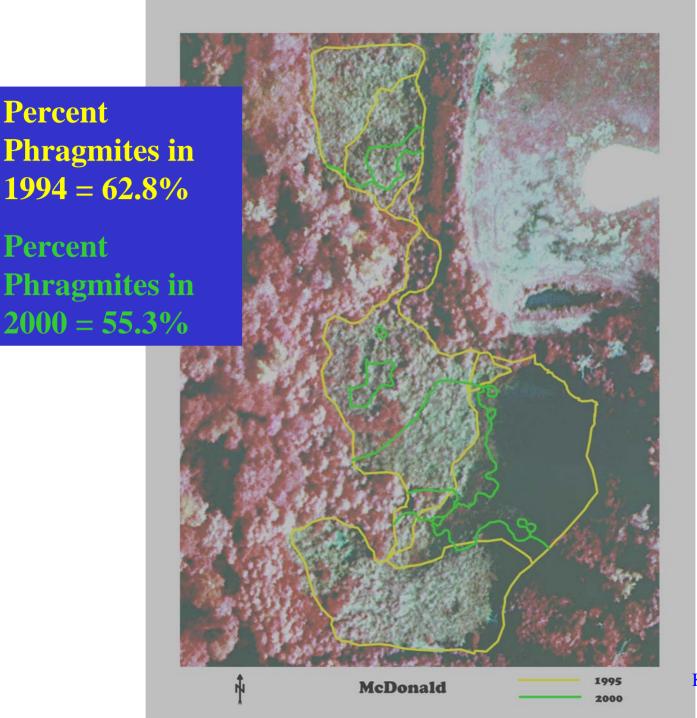
Percent
Phragmites in
marsh interior
= 1.0%

Percent
Phragmites in
2000 = 16.8%

Percent
Phragmites in
marsh interior
= 0.9%



2000



Percent

Percent

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Percent Phragmites in 1994 = 4.7%

Percent
Phragmites in
2000 = 1.1%



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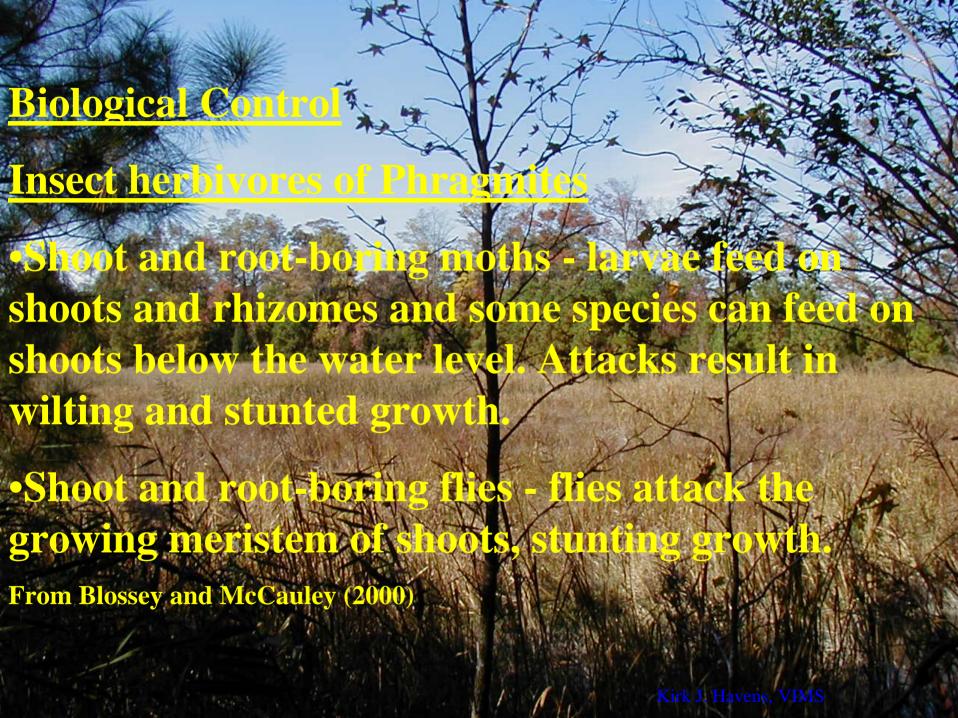


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