







Langley Air  
Force Base

Hampton River

Hampton Roads

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Dead Zone

MORTON

# Dead Zone

July 2006

## Oxygen levels necessary to support life

1.0 – Oyster

2.0 – Spot

3.0 – Blue Crab

5.0 – Rockfish

Shad

White Perch



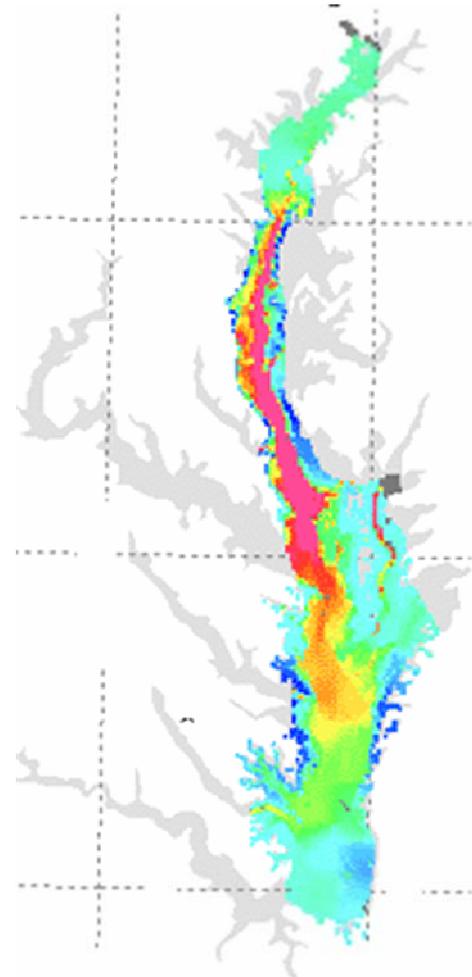
0.0 mg/l

2.5

5.0

7.5

10.0

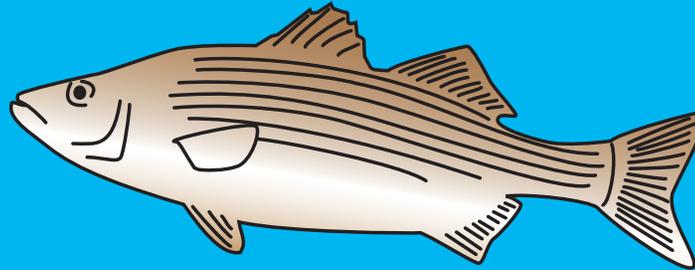


# THE BIG SQUEEZE

**TOO WARM**

During the summer, surface temperatures rise.

Fish seek deeper, cooler water to survive.



Disolved oxygen in deep water decreases due to decomposing algae.

Fish avoid the “dead zone” by moving to the surface.

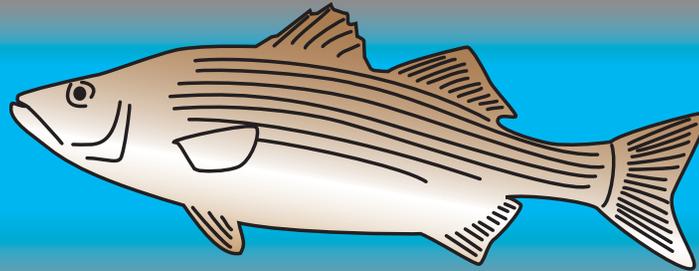


**NOT ENOUGH OXYGEN**

# THE BIG SQUEEZE

**TOO WARM**

Climate change causes water temperatures to rise even more.



Warm water holds less oxygen causing the "dead zone" to expand.



**NOT ENOUGH OXYGEN**

**“Used to be about 400  
boats dredging from  
December to March.  
Nowadays, there might be  
40 or 50.—It’s not the  
fishing killing the crabs,  
it’s something else.”**

**CAPTAIN LONNIE MOORE**



*...let me emphasize that adaptation alone will not do. We need to bring about mitigation actions to start in the short term even when benefits arrive in a few decades. And there are huge co-benefits from mitigation action in terms of energy security, in terms of local environmental benefits. The cost ... will keep going up as the global temperature goes up.*

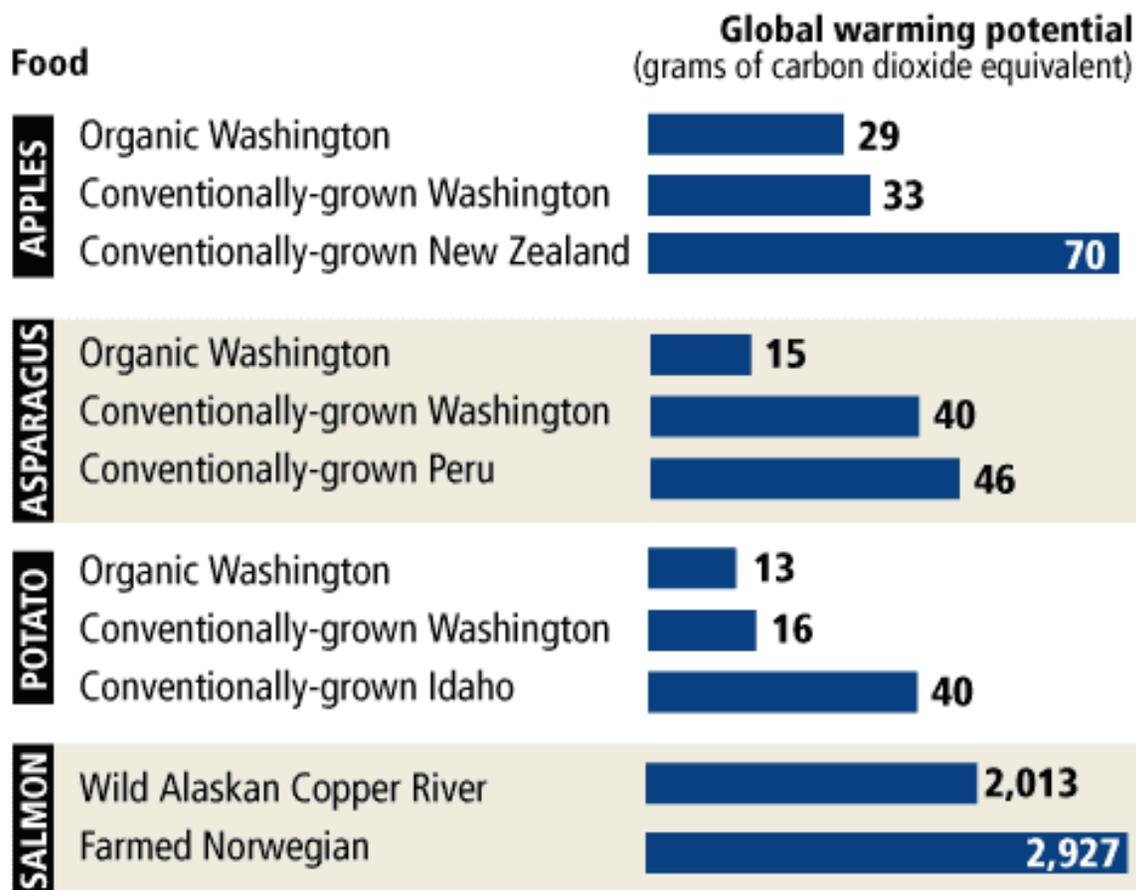
Mr. Rajendra Pachauri, Chairman of the IPCC

Testimony before the UN Assembly – September 24, 2007

# LOCAL VS. IMPORTED MEAL

UW researchers found the “carbon footprint” of a plate of wild Alaskan salmon and Washington-grown asparagus, apple and potatoes was 32 percent smaller than the same meal made from imported ingredients. It also found driving several miles to a farmers market would cancel out any greenhouse gas savings from eating the local meal.

Because fuel and fertilizer used to produce the food has a large impact, differences between organic, conventionally-grown and imported items vary depending on the type of food.







HAVE A  
**Victory Garden**

Eat what you can, and  
can what you can't eat



ALL OUT FOOD PRODUCTION!

# VICTORY GARDENS 2007+

A starter kit, a gardener and a planting party. Get to know your neighbors!





# LocalHarvest <sup>SM</sup>

*real food, real farmers, real community*

[www.localharvest.org](http://www.localharvest.org)

City of Virginia Beach  
**Farmers Market**

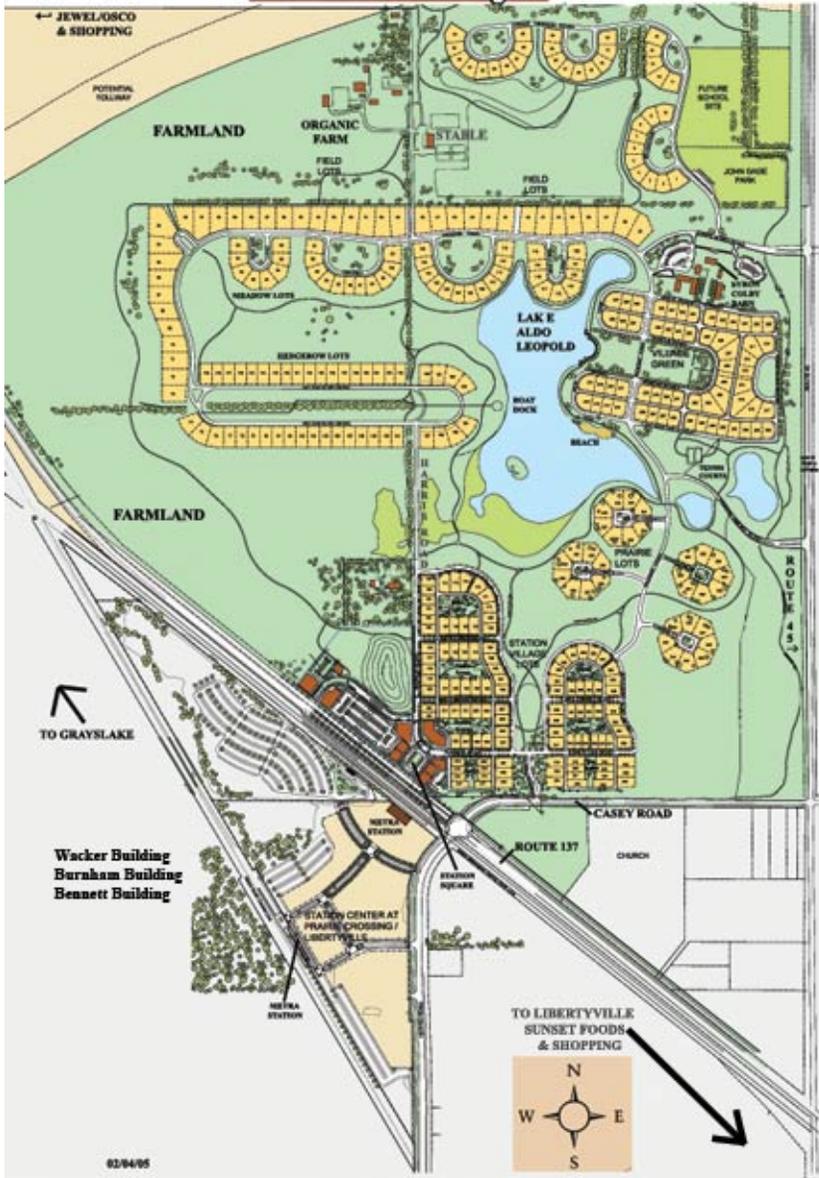


*"Our Future is Growing"*

The image is a promotional graphic for 'Eat Local! THANKSGIVING 2007'. It features a white plate in the center with the text 'Eat Local!' in a purple script font and 'THANKSGIVING 2007' in a brown, all-caps sans-serif font below it. The plate is set against a background of a sunburst with orange and yellow rays, and a multi-colored circular border in purple, yellow, orange, and green. To the right of the plate is a wooden crate overflowing with fresh produce, including pumpkins, apples, onions, potatoes, carrots, and leafy greens.

*Eat Local!*  
THANKSGIVING 2007

# Prairie Crossing



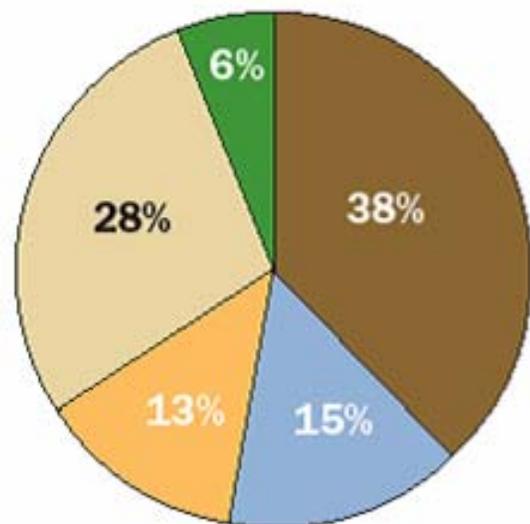
847-548-5400

**Prairie Crossing**   
847-548-5400 www.prairiecrossing.com

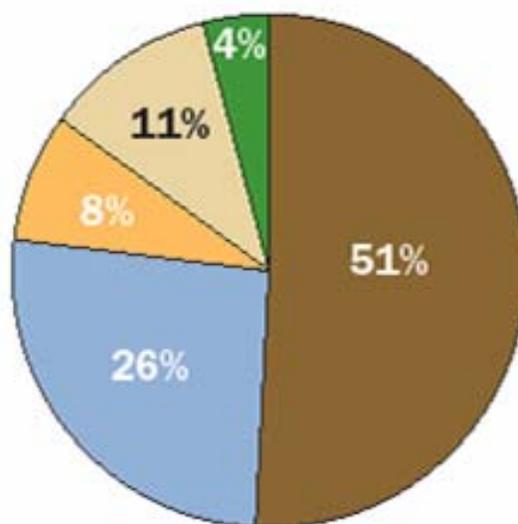
www.prairiecrossing.com

# Principal Bay States Nitrogen Pollution Loads by Source

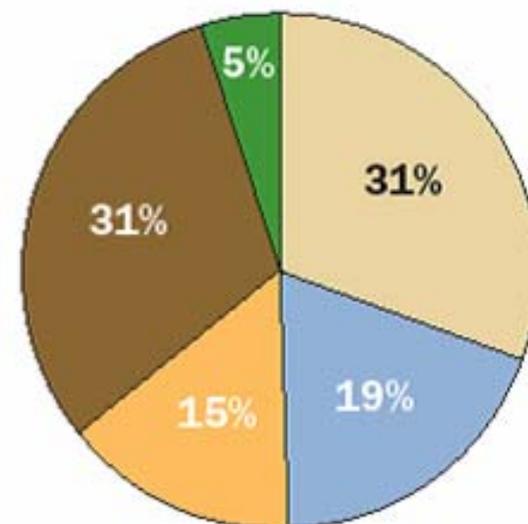
## Maryland



## Pennsylvania



## Virginia



■ Point Sources   ■ Agriculture   ■ Septic   ■ Urban/Suburban Runoff   ■ Atmospheric Deposition

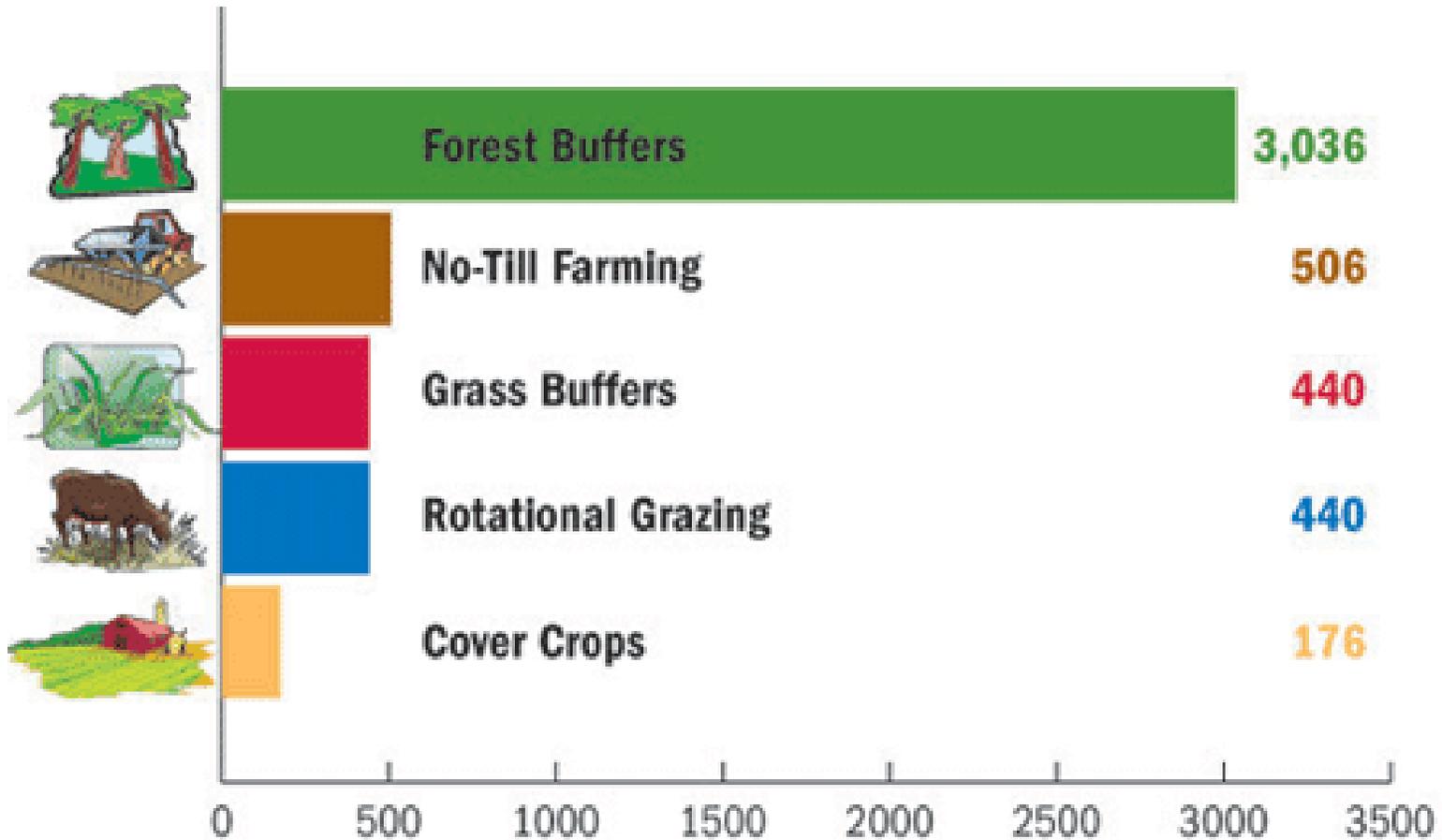
Based on Chesapeake Bay Program 2005 modeled loads.  
Agriculture sector includes air emissions from agricultural sources.

July 2007



**CHESAPEAKE BAY FOUNDATION**  
*Saving a National Treasure*

# Carbon Sequestration Rates of Selected Agricultural Conservation Practices (Pounds of Carbon per Acre per Year)



**In the past few years, the Virginia General Assembly has approved more than \$500 million to upgrade Virginia wastewater treatment plants.**







# Urge Governor Kaine and your General Assembly representative to support full funding for Virginia farm conservation programs :

- \$100 million per year for 10 years
- 1/10th of 1 cent of the Va. sales tax



“My message to you,” Kaine told the Senate Committee on Environment and Public Works, “is that each day that legislative action is delayed will have negative consequences for the Chesapeake Bay.”

Source: Virginia Pilot

*A technological society has two choices: first it can wait until catastrophic failures expose systemic deficiencies, distortion and self-deceptions. Secondly, a culture can provide social checks and balances to correct for systemic distortion prior to catastrophic failures.*

Mahatma Gandhi

