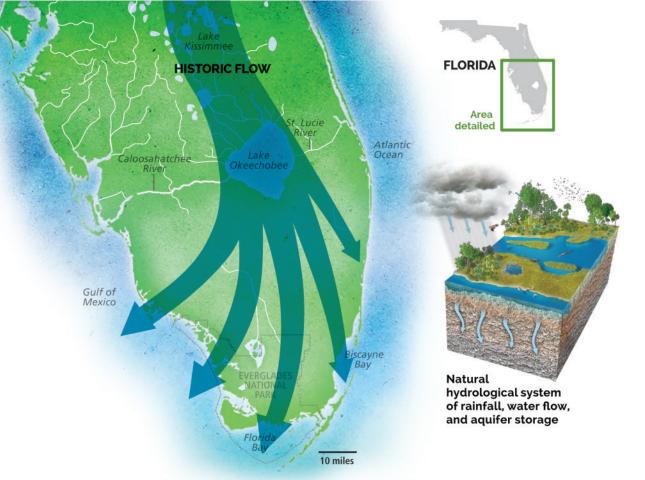






Florida, in 1900

Before Florida's development boom, the state's population was roughly over 500,000. With the absence of man's urban and agricultural areas, water flowed freely through the middle of the state following a gradual downward slope, and passed what is today's Everglades National Park before emptying into Biscayne Bay, Florida Bay and the southern Gulf of Mexico.



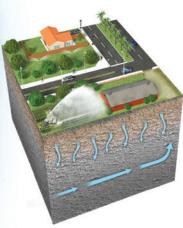


Urban Sprawl, Farming

Since 1900, much of the
Everglades has been channeled
for agriculture and urban
development. Economic
prosperity in the early 20th century
stimulated tourism to Florida,
leading to development of hotels
and resort communities. The
Florida land boom of the 1920s
brought a brief period of intense
land development, altering the
landscape with the construction of
man-made canals and removal of
many natural waterways.







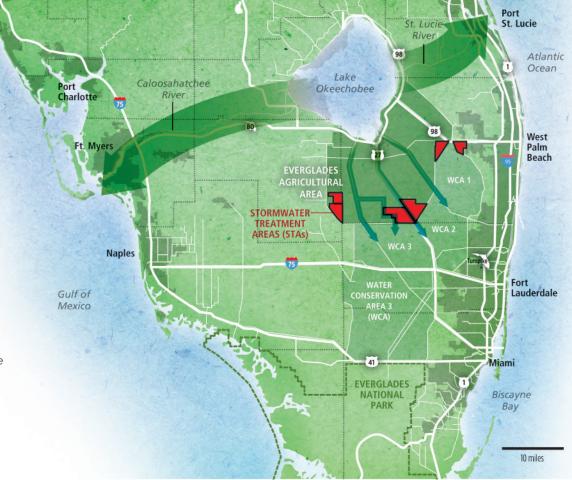
Development of urban and farming areas slow movement of water as well as decrease aquifer replenishment





Cleaning the Water

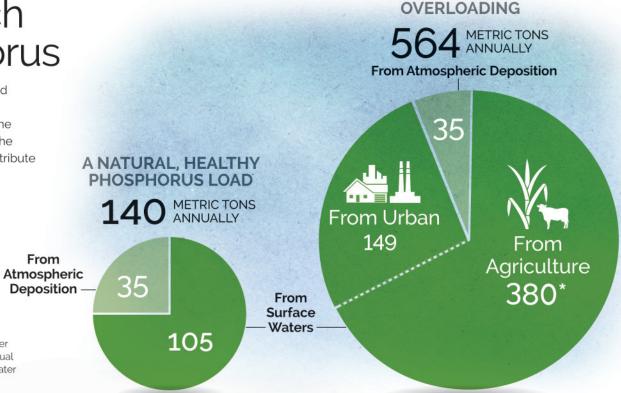
Much of the polluted water is discharged to rivers east and west of the lake, eventually ending up polluting those rivers, as well as estuaries on either coast. Water is also discharged south and cleaned to avoid contaminating the Everglades' natural ecosystem and threatening the drinking water of a large populace. To do this, some water passes through stormwater treatment areas within the Everglades Agricultural Area before continuing south.





Too Much Phosphorus

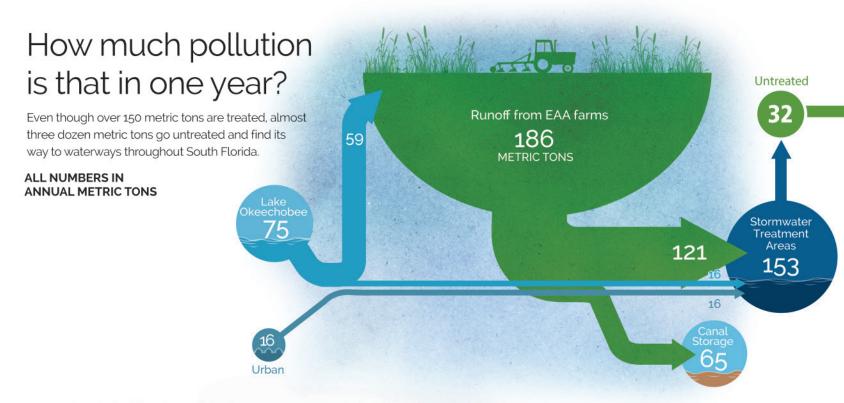
Agricultural areas above and around Lake Okeechobee contribute roughly 67% of the total phosphorus entering the lake, while urban areas contribute 26%, and the atmosphere provides the remainder.



CURRENT PHOSPHORUS

* From Lake Kissimmee and other agricultural areas, average annual total phosphorus loading for water years 2005-2009





NOTE: Values obtained from the South Florida Water Management District and from the South Florida Environmental Reports for Water Years 2005-2012 (from May 2004 to April 2012).

PHOSPHORUS-POLLUTED WATER

32 METRIC TONS

South Florida Waterways

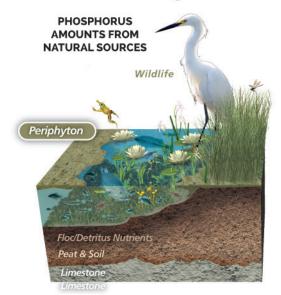




16 10-WHEEL DUMP TRUCKS WITH A 10 METRIC TON CAPACITY



Affecting Water Quality



In normal amounts, phosphorus helps grow periphyton, a complex mixture of algae, cyanobacteria, microbes, and detritus that attaches to submerged surfaces in most aquatic ecosystems.

TOO MUCH PHOSPHORUS FROM UNNATURAL SOURCES



With too much phosphorus, green algae covers the water table, blocking important sunlight and oxygen for sustaining life



The Everglades food cycle is broken as large fish are unavailable as a food source for the birds that are attracted by them, altering the landscape forever.

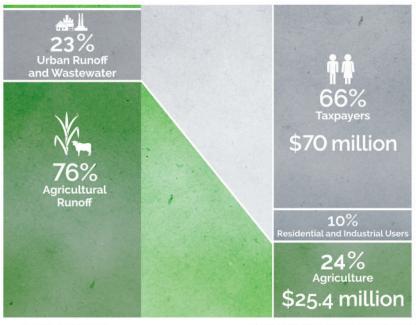


Who Pollutes and Who Pays

Even though agriculture is responsible for 76% of the pollution threatening the Everglades ecosystem, they only pay 24% of the nutrient removal. The remaining 66% is paid by taxpaying citizens.







Total Phosphorus Produced by Each Sector

260 Metric Tons/Year

Funding Sources for Nutrient Removal in the Everglades

Total Cost \$106 Million/Year



A Catastrophe in the Making

Produced by Hiram Henriquez
MFA Candidate, SCAD

SOURCES

The Everglades Foundation

South Florida Water Management District

