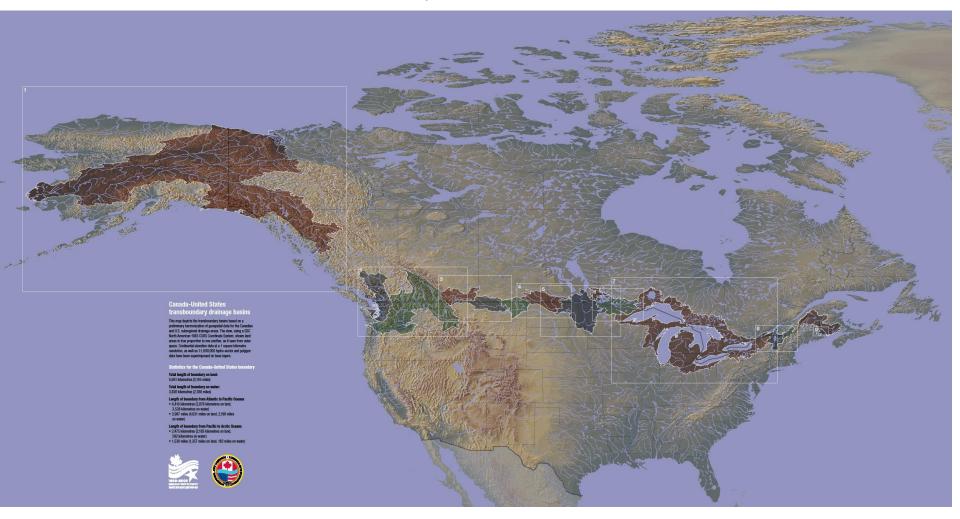
Great Lakes Workshop Series on Remote Sensing of Water Quality Lana Pollack, Chair U.S. Section, International Joint Commission May 7-8 2014



Canada-USA Trans-boundary Drainage Basins

Great Lakes Water Quality Agreement





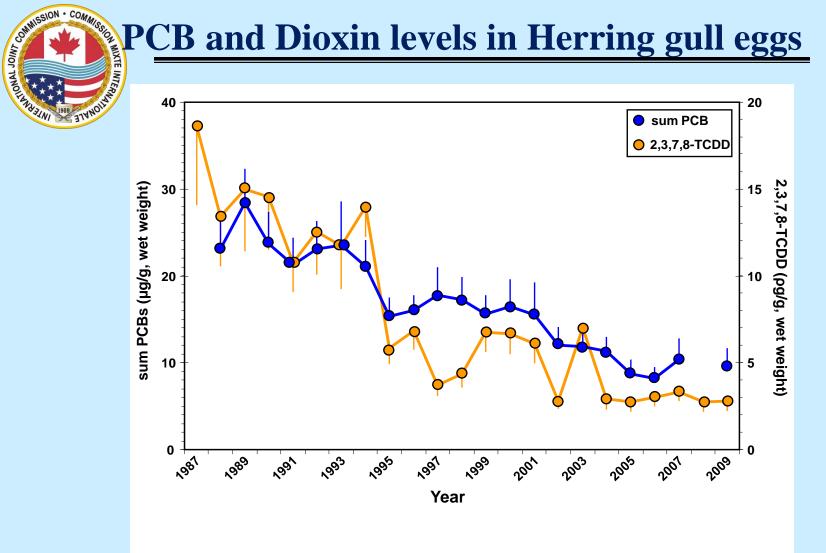
President Nixon and Prime Minister Trudeau, April 1972

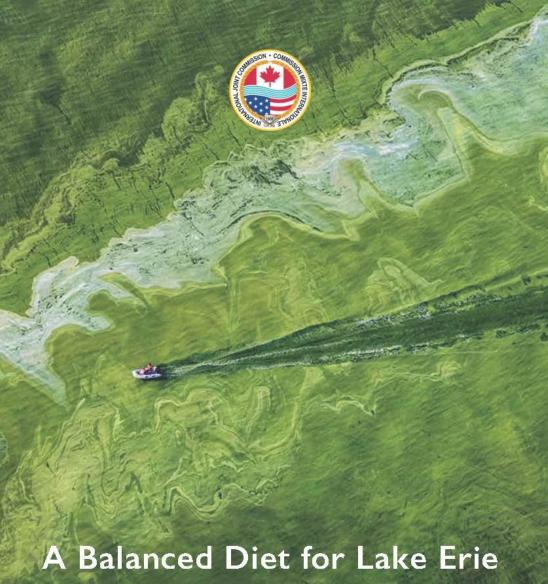


Environment Canada Minister Peter Kent and U.S. EPA Administrator Lisa Jackson, September 2012



PCB and Dioxin levels in Herring gull eggs





Reducing Phosphorus Loadings and Harmful Algal Blooms

A Report of the Lake Erie Ecosystem Priority February 2014

http://www.ijc.org/en_/news?news_id=428

LEEP Recommendations --Targets:

* 37% reduction in TP and 41% reduction in DRP from Maumee River and west basin tributaries to reduce HABs to no/mild conditions

* 46% reduction in TP and
78% reduction in DRP from
WB and CB tributaries to
reduce hypoxic area by half



LEEP Recommendations -- Policy

Incentive-based programs:

Expand focus to include DRP and TP Focus on critical March-June period Focus on priority watersheds Protection and restoration of natural lands

Regulatory

Mandatory certification standards for applicators Link crop insurance with conservation Ban applications on frozen ground Mandatory septic system inspections

Indicators for Which Data Could Potentially be Collected Using Satellites

IJC Indicators

- Nutrients In-lake Phosphorus Concentrations;
- Land Cover Conversion and Fragmentation Index;
- Coastal Habitat Shoreline Alteration;
- Water Level;
- Water Temperature/Ice cover;

- Extent, Composition, and Quality of Coastal Wetlands;
- Harmful and Nuisance Algae;
- Adapting to Climate Change;
- Conservation of habitat and species;

SOLEC Indicators

- Phytoplankton (Chlorophyll-a);
- Water Clarity;

For more information, visit:



