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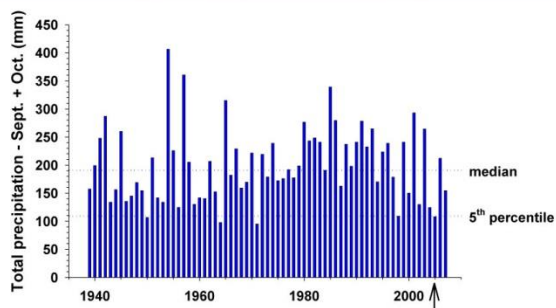
Andrew Paterson, Dorset Environmental Science Centre, Ontario Ministry of the Environment

A highly interesting talk: scientists using lake sediments, which are archives of environmental change, to look at possible factors causing algae outbreaks.

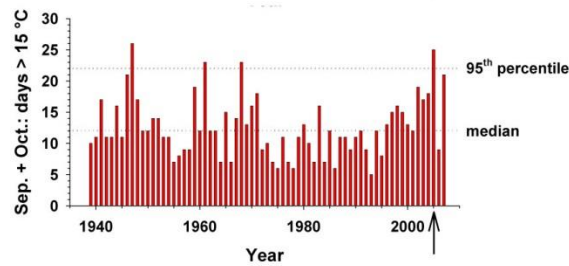
<http://www.youtube.com/watch?v=6-ECh8g-Cvs&feature=youtu.be>



2005 was the warmest/driest fall on record



Precipitation



Temperature

Climate is the aerial



Other nutrients (esp. nitrogen), light, etc., influence what species are present – the “tuning”

Phosphorus controls the “volume” of algae

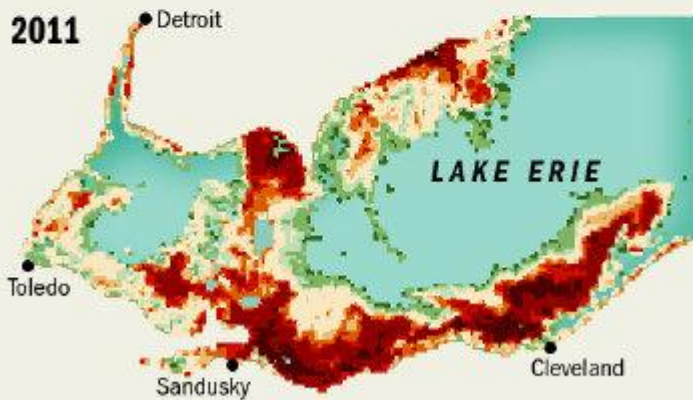
Past toxic-algae blooms

Federal and state experts are predicting this year's toxic algae bloom in Lake Erie will be similar to one that covered about 300 square miles in 2003. The worst bloom in recent years occurred in 2011 and covered 1,600 square miles from Toledo to Cleveland.

2003



2011



ALGAE LEVEL



Source: National Oceanic and Atmospheric Administration