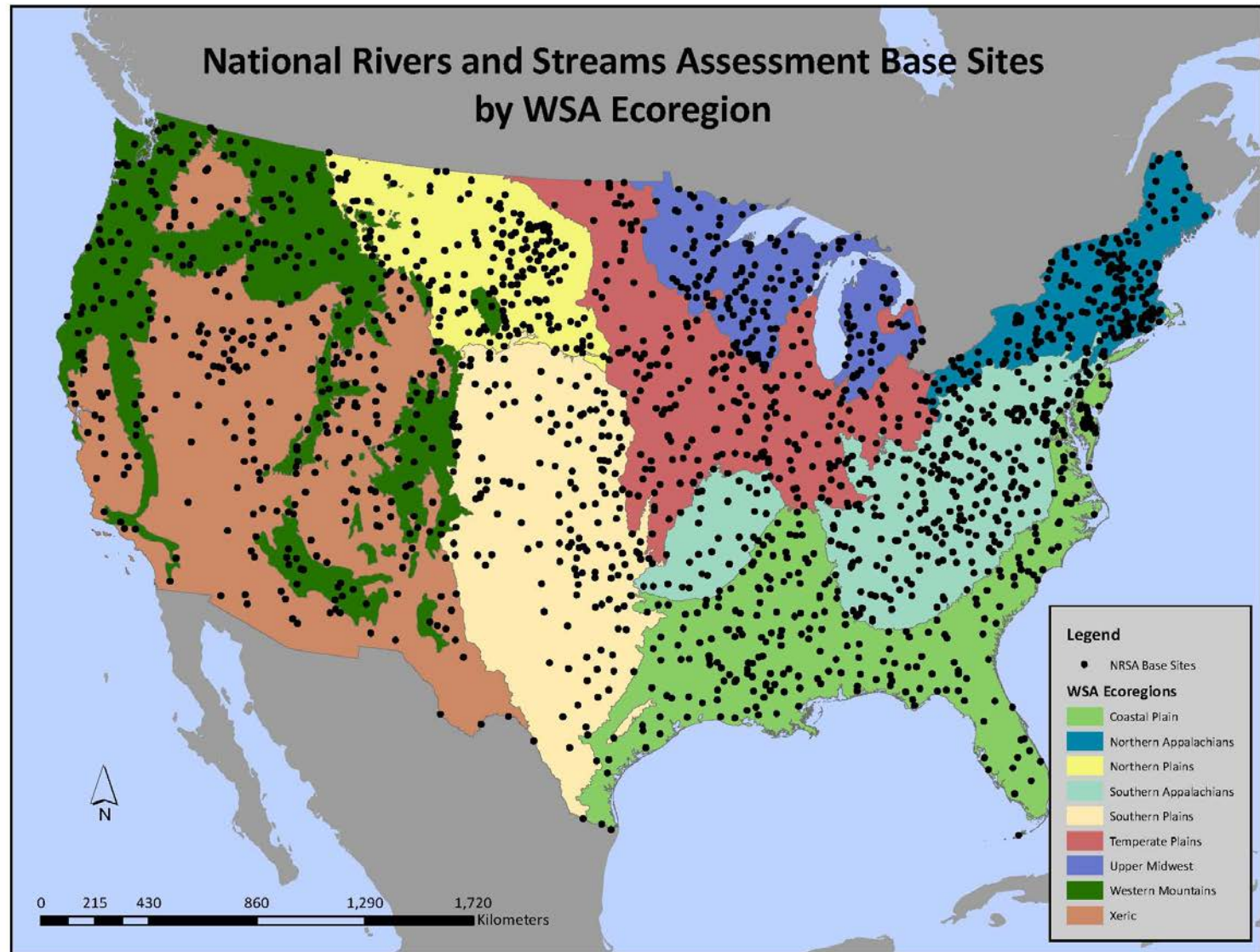


NATIONAL RIVERS AND STREAMS ASSESSMENT PROJECT

**ORSANCO INVOLVEMENT
AND CURRENT STATUS
2008 – 2009;
2011- PRESENT**





PURPOSE: TO GENERATE STATISTICALLY-VALID AND ENVIRONMENTALLY RELEVANT REPORTS ON THE CONDITION OF THE NATION'S WATER RESOURCES

National Rivers and Streams Assessment



Ohio River Basin Sites



Wadeable Sites

-  State Requested In-Kind Support, 49
-  State Sampling In-House, 26

Boatable Sites

-  State Requested In-Kind Support, 41
-  State Sampling In-House, 33

Total Number of Sites in the
Ohio River Basin: 149

Of these, states requested in-kind
support to sample 90 sites

0 25 50 100 150 200
Miles

ORSANCO INVOLVEMENT

**SPRING 2008:
ORSANCO BIOLOGISTS WERE
SOLICITED BY USEPA TO ASSIST WITH
NRSA CREW TRAINING AND
DEVELOPMENT.**

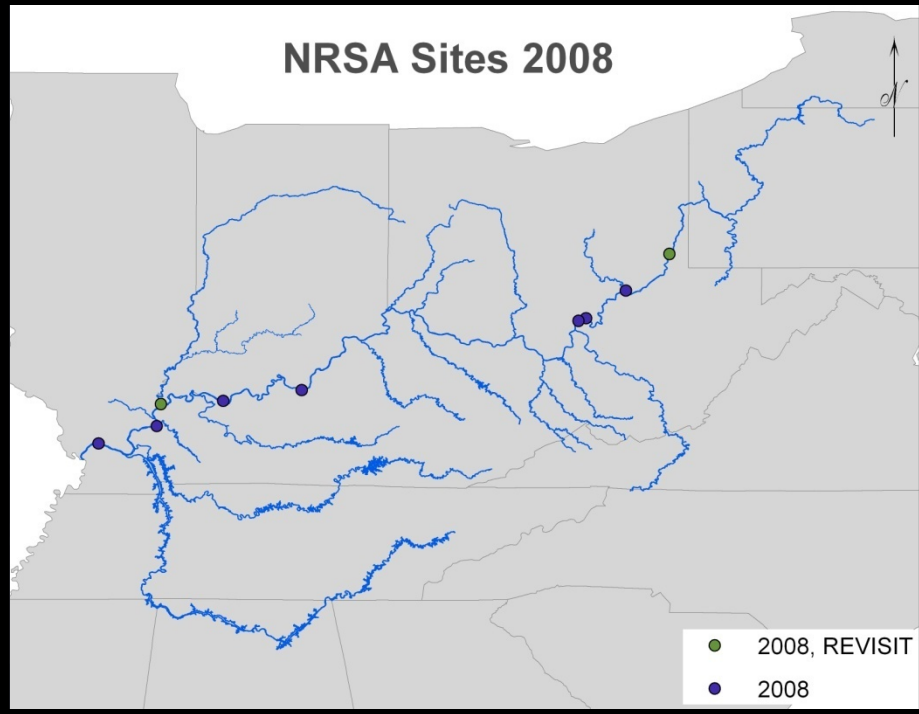
**ORSANCO WAS ASKED TO PICK UP
SITES IN THE BASIN; MAINSTEM SITES
IN '08 AND TRIBUTARY SITES IN '09.**



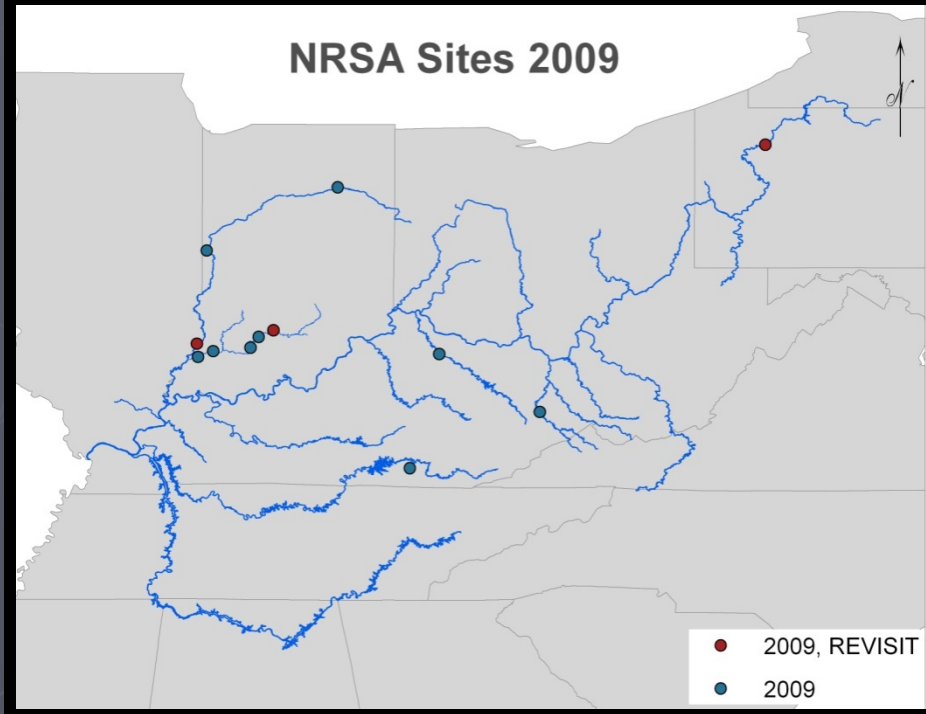
- **9 SITES AND 2 REVISITS COMPLETED BETWEEN AUGUST AND SEPTEMBER 2008 ON THE MAINSTEM OHIO RIVER.**
- **13 SITES AND 3 REVISITS COMPLETED BETWEEN MAY AND SEPTEMBER 2009 ON SMALLER STREAMS AND TRIBUTARIES TO THE MAINSTEM OHIO RIVER.**

2008/2009 FIELD SEASONS

NRSA Sites 2008

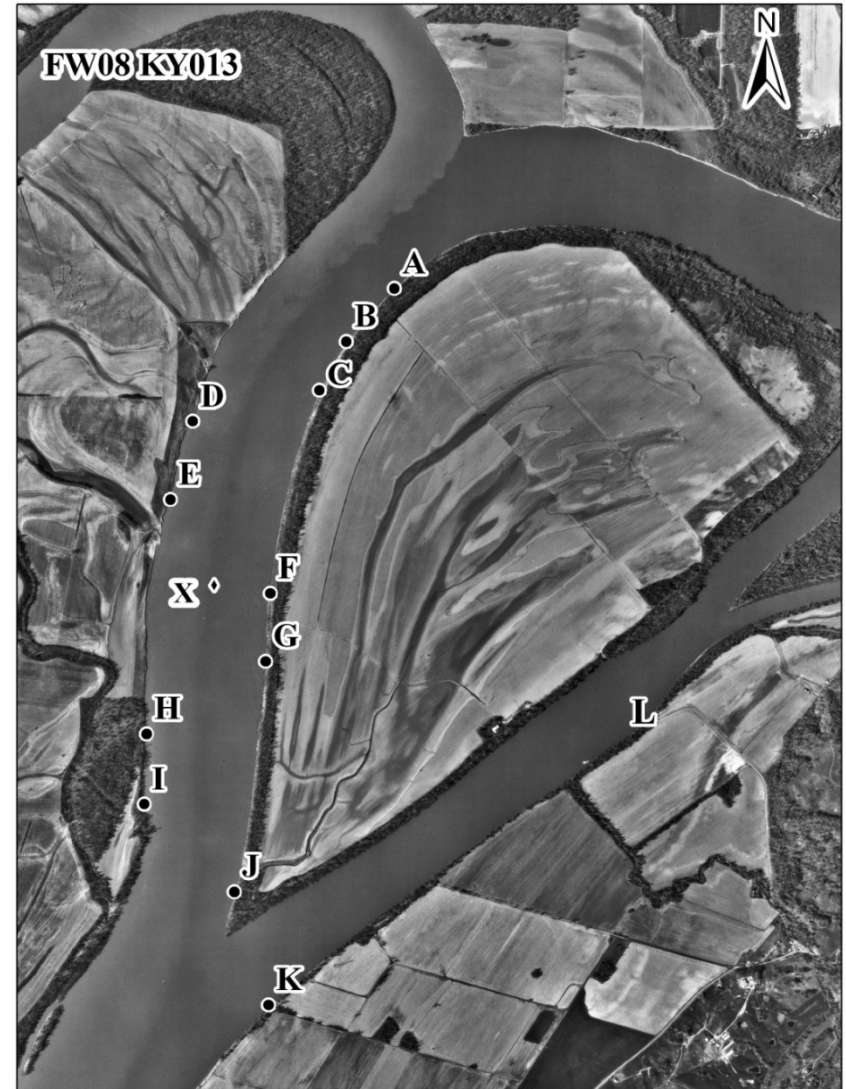


NRSA Sites 2009



DATA COLLECTION AND SITE LAYOUT

- In situ temperature, pH, DO, and conductivity
- Secchi transparency (in rivers)
- Water chemical quality and nutrient concentrations
- Chlorophyll-*a*
- Sediment enzymes
- PPCPs from water column (urban sites)
- Periphyton
- Benthic macroinvertebrates
- Enterococci
- Fish Community
- Fish Tissue
- Physical habitat characteristics



CURRENT STATUS

ONCE USEPA HAS AN ESTABLISHED ASSESSMENT PROTOCOL FOR THE NATION, WE WILL APPLY THE PROTOCOL TO ASSESS THE OHIO RIVER BASIN.

