



# National Streamflow Information Program Network Analysis

# Contacts

- Dave Stewart
  - 703-648-4879
  - [dwstewar@usgs.gov](mailto:dwstewar@usgs.gov)
- Jim Kolva
  - 703-648-5225
  - [jrkolva@usgs.gov](mailto:jrkolva@usgs.gov)
- Kernell Ries
  - 703-648-5307
  - [kries@usgs.gov](mailto:kries@usgs.gov)

# Why?

- To define a base network of Federally-funded NSIP stations
- To develop a long-term investment plan for implementing the NSIP
- To develop legislative support for implementing the NSIP plan

# NSIP Network Analysis

- Initially consists of 4 goals to be assessed by the district offices using the ArcMap GIS tool
- The full analysis consists of 14 goals, the remaining 10 of which will initially be assessed by the Office of Surface Water

# Time Frame

- Tools and data for analysis provided to districts by August 16, 2000
- Analyses to be completed by the districts by September 15, 2000
- OSW will compile data from districts, resolve differences, and finalize results for the 4 goals by October 15, 2000

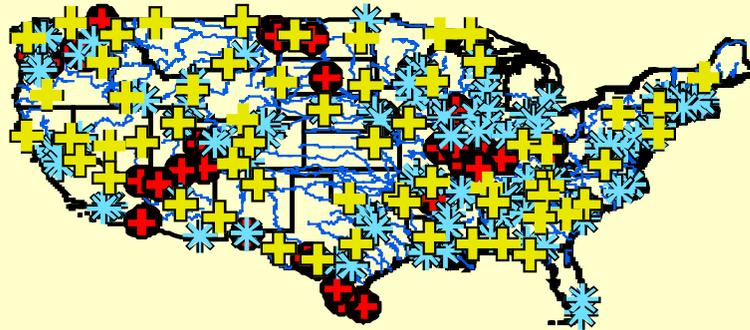
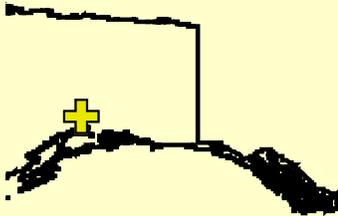
# Goal 1 - Definition

Provide discharge data  
for USGS water-quality  
monitoring networks

# Goal 1 - Metric

Operate a discharge station at or near each Hydrologic Benchmark, NASQAN, and NAWQA Low-Intensity Phase station

# Goal 1 – USGS Networks



4

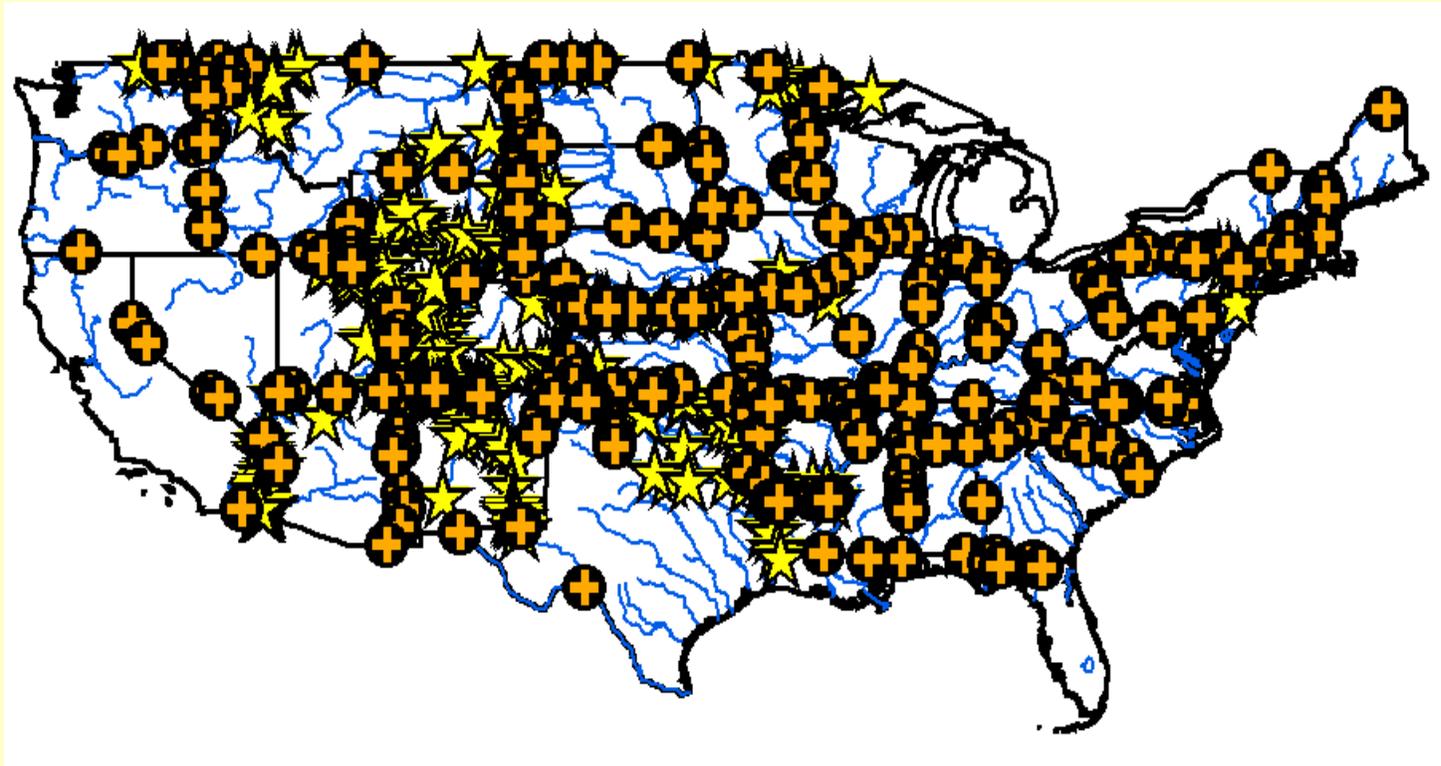
# Goal 2 - Definition

Provide discharge data for locations of treaties, compacts, and flows across State and International boundaries

# Goal 2 - Metric

Operate a station on the RF1 reach mandated in all compacts and decrees, and on all rivers with drainage areas greater than 500 sq. mi. at State and International boundaries

# Goal 2 Initial Map



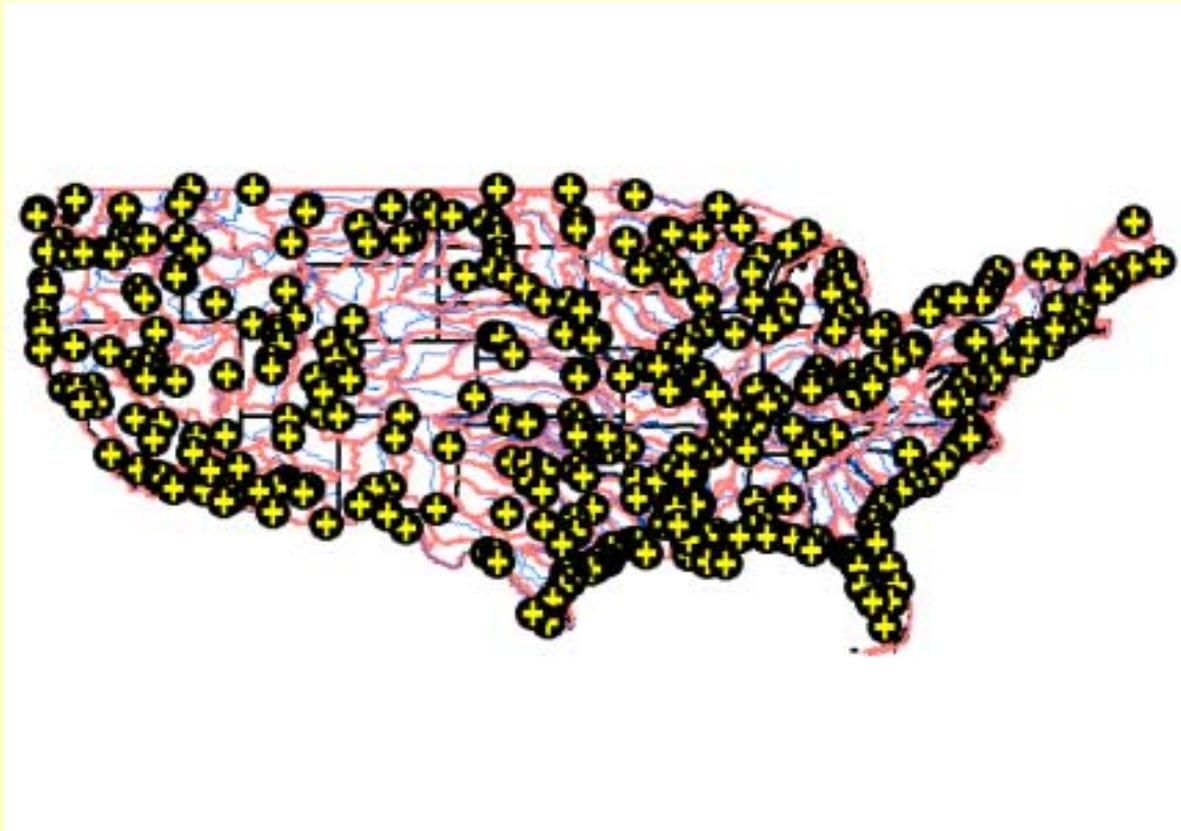
# Goal 3 - Definition

Provide representative discharge data for each of the major river basins in the Nation

# Goal 3 - Metric

Operate 1 or 2 stations that provide discharge data for at least 50 percent of the drainage area of each hydrologic accounting unit (6-digit HUC)

# Goal 3 --Hydrologic Accounting Units



# Goal 4 - Definition

Provide discharge data for “Sentinel Watersheds” that typify regional natural streamflow conditions and enable assessments of long-term trends

# Goal 4 - Metric

Operate an unregulated station in each area of 100 sq. mi. or greater formed by the intersection of the 6-digit HUCs and Ecological Regions

# Goal 4 – Sentinel Stations

