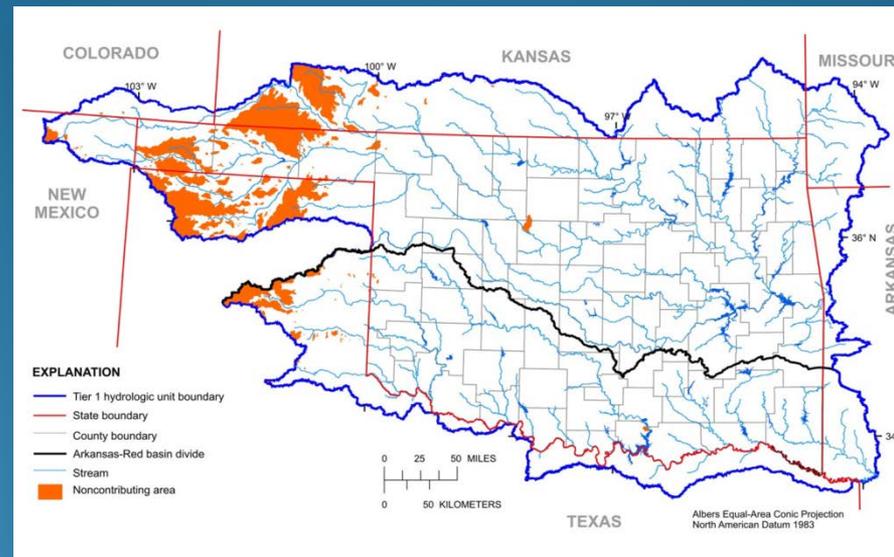


Introduction to Tribal Water Plans, Ecological Flows, Drought, and Climate Change Class



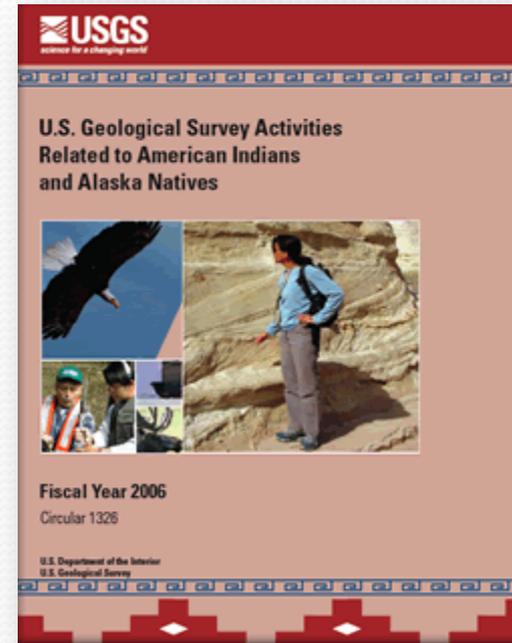
Sponsored by the U.S. Geological Survey and the U.S. Bureau of Reclamation
Shawnee, Oklahoma
August 13-14, 2013
By W.J. Andrews, USGS Oklahoma Water Science Center

In this class...

- We'll discuss—
 - 1) USGS work with Tribes,
 - 2) Elements of Tribal Water Plans,
 - 3) Quantification of water resources and management of competing interests for finite resources, and
 - 4) Mitigation and adaptation to climate variability and long-term changes.

USGS technical assistance work with Tribes--

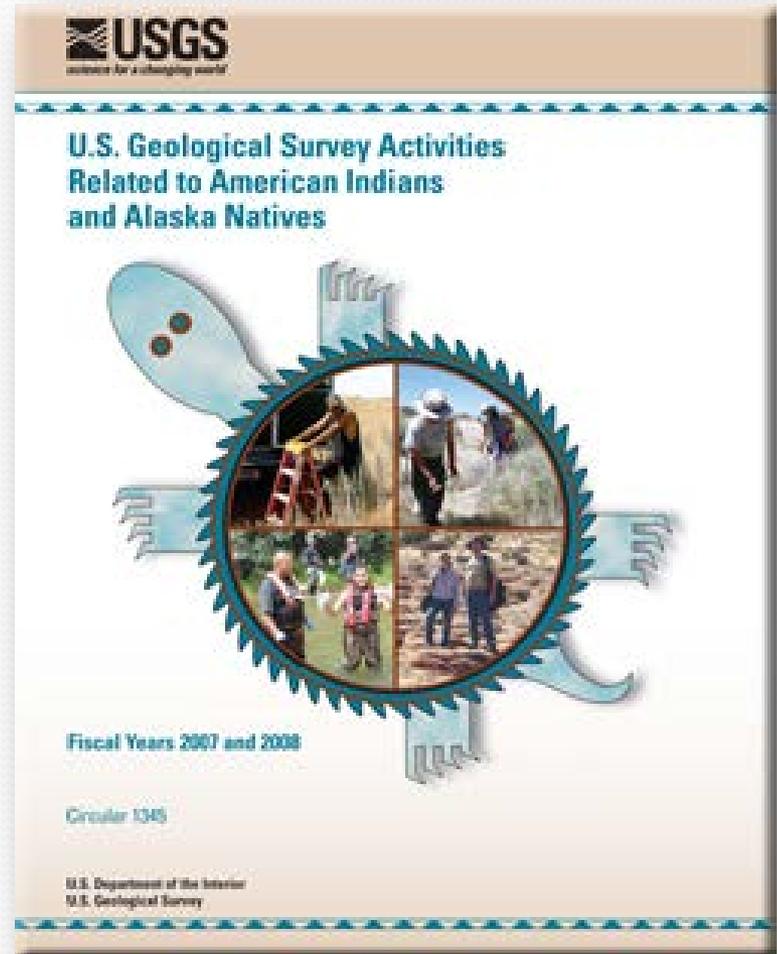
- In a typical year, USGS works with Native American Tribes across the U.S. under more than 100 cooperative agreements related to:
 - 1) Stream gaging for flood prediction, TMDLs, water-use assessment etc.,
 - 2) Water-quality assessments ,
 - 3) Assessments of contamination of soil, plants, and wildlife,
 - 4) Wildlife health issues,
 - 5) Threatened and endangered species assessments,
 - 6) Aquatic and terrestrial habitat assessments,
 - 7) Evaluation of effectiveness of reclamation and restoration activities,



USGS technical assistance work with Tribes (continued)--

- 8) Mapping needs,
- 9) Fire management,
- 10) Mineral resource assessments,
- 11) Water availability assessments,
- 12) Tribal training classes, and
- 13) Hiring student interns.

Funding for this work comes from USGS cooperative matching funds, Tribal funds, USEPA, BOR, BIA, NPS, etc.

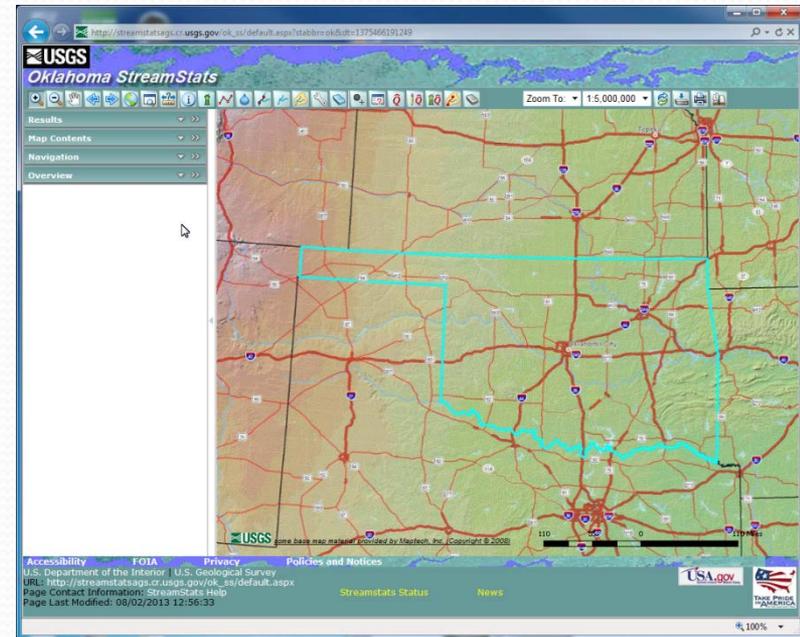


Training needs and purposes...

- We hope that the information exchanged in this class will improve your knowledge of the hydrologic cycle, water resources, climate variability, and planning for and mitigating long-term changes in climate and demands on water resources.
- We welcome your feedback about this class and additional training topics that would be useful for you and your fellow staff members.

In this class, we will--

- Spend about ½ day in in class discussing elements of Tribal water plans,
- Spend ½ day in class describing environmental flows, water use, streamflow classification tools and Streamstats, the Groundwater Toolbox, and GW/SW interactions.
- Spend ½ day discussing climate variability, drought, and mitigation of and adaptation to climate change.



“Housekeeping” issues--

- The hotel is providing morning, and afternoon snacks on the 13th and a morning snack on the 14th.
- Lunch and dinner on your own. There is a steakhouse, grand buffet, and sports grill in the casino. There are a several restaurants in or near the Shawnee Mall east on I-40 at the Kickapoo St. exit #185. There are several fast food restaurants south on Kickapoo Street.
- The Shawnee Regional Hospital is on Kickapoo Street about 1.5 miles south of I-40 and ½ mile west on W. MacArthur Street.
- Please don't hesitate to ask us if you have any questions or problems!

We hope that this class will be a useful and enjoyable experience for you!

