

INSTITUTE FOR TRIBAL ENVIRONMENTAL PROFESSIONALS

Native American Tribal Emission Inventories: A 2006 Update

Emission Inventory Conference
May 16-18, 2006
New Orleans, LA



NORTHERN
ARIZONA
UNIVERSITY

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Tribal Emission Inventories (EIs)

Overview - Topics Covered

- How do we know which tribes have completed them?
- What does “completed” mean?
- How many and which tribes have completed EIs?
- Major Sources?
- Conclusions



Which Tribes have completed EIs?

- **Not an easy question!**
 - 546 Tribes and Alaskan Native Villages in US
 - How to find out what they are all doing?
- **How to answer? Ask, ask, ask.....**
 - At AIAQTP workshops
 - At RPO conferences and trainings
 - Through newsletters, listservs, etc.

Which Tribes have completed EIs?

- ITEP asks through project work, providing training and technical assistance for EIs with funding from:
 - EPA's OAQPS
 - Western Regional Air Partnership
 - Midwest RPO (LADCO)
 - EPA Region 7



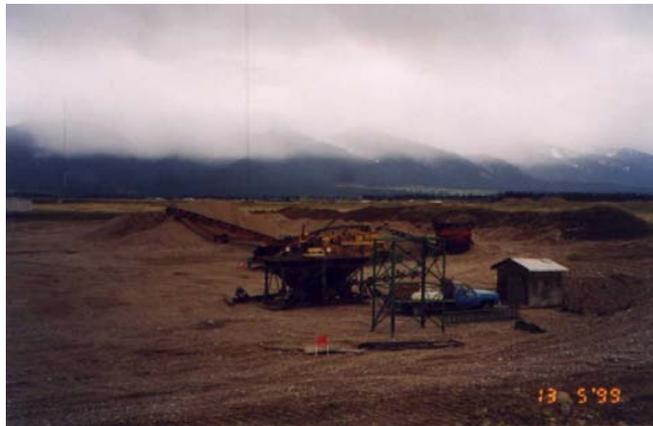
What does “completed tribal EI” mean?

- Two Different Things

- Entire reservation inventoried for point and area sources. May or may not have major sources.

COMPREHENSIVE EI

- Only major sources (Title Vs) inventoried. **TITLE V ONLY EI**



How many tribes have completed EIs as of April 2006? (Lower 48 States)

Estimated total tribes in lower 48 states with some level of EI completed.	40
Total number of tribes in lower 48 states	322
Percent of tribes with EIs	12.4%
Number of tribes with EI data released to public	35
Number of tribes with comprehensive EIs	29
Number of tribes with EIs including only Title V sources	11
Number of tribes with Title V sources and no EI completed.	5
Number of tribes with possible future Title V sources and no EI completed.	5

How many tribes have completed EIs as of April 2006? (Alaskan Native Villages)

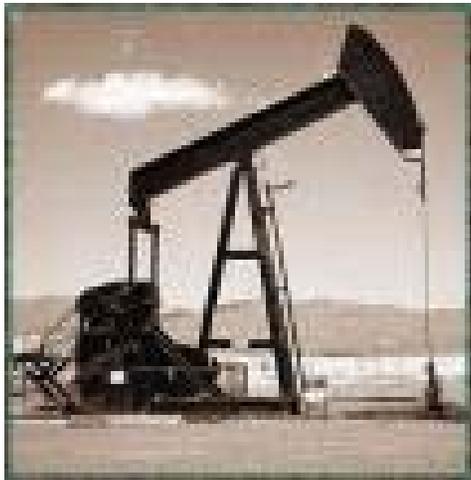
Total number of ANVs	224
Estimated total ANVs with some level of EI completed or in progress.	12 - 17
Percent of ANVs with EIs in progress	5.4% - 7.6%
Number of ANVs with Title V sources	0

Reservations with Comprehensive EIs Completed

- **29 tribes in lower 48 states have completed comprehensive EIs**
 - Mobile on-road and non-road, are still most difficult to inventory on reservations
 - Tribes either:
 - Run MOBILE model, use local VMT data
 - Research to find non-road EFs for equipment types of interest
 - Obtain state or local data, assign some portion of that to reservation
 - Do not include mobile emissions in EI at all.

Reservations with Title V only EIs

- Eleven reservation's EIs include only their Title V sources.
 - Two of these also include oil and gas field emissions



Tribes with EIs Completed

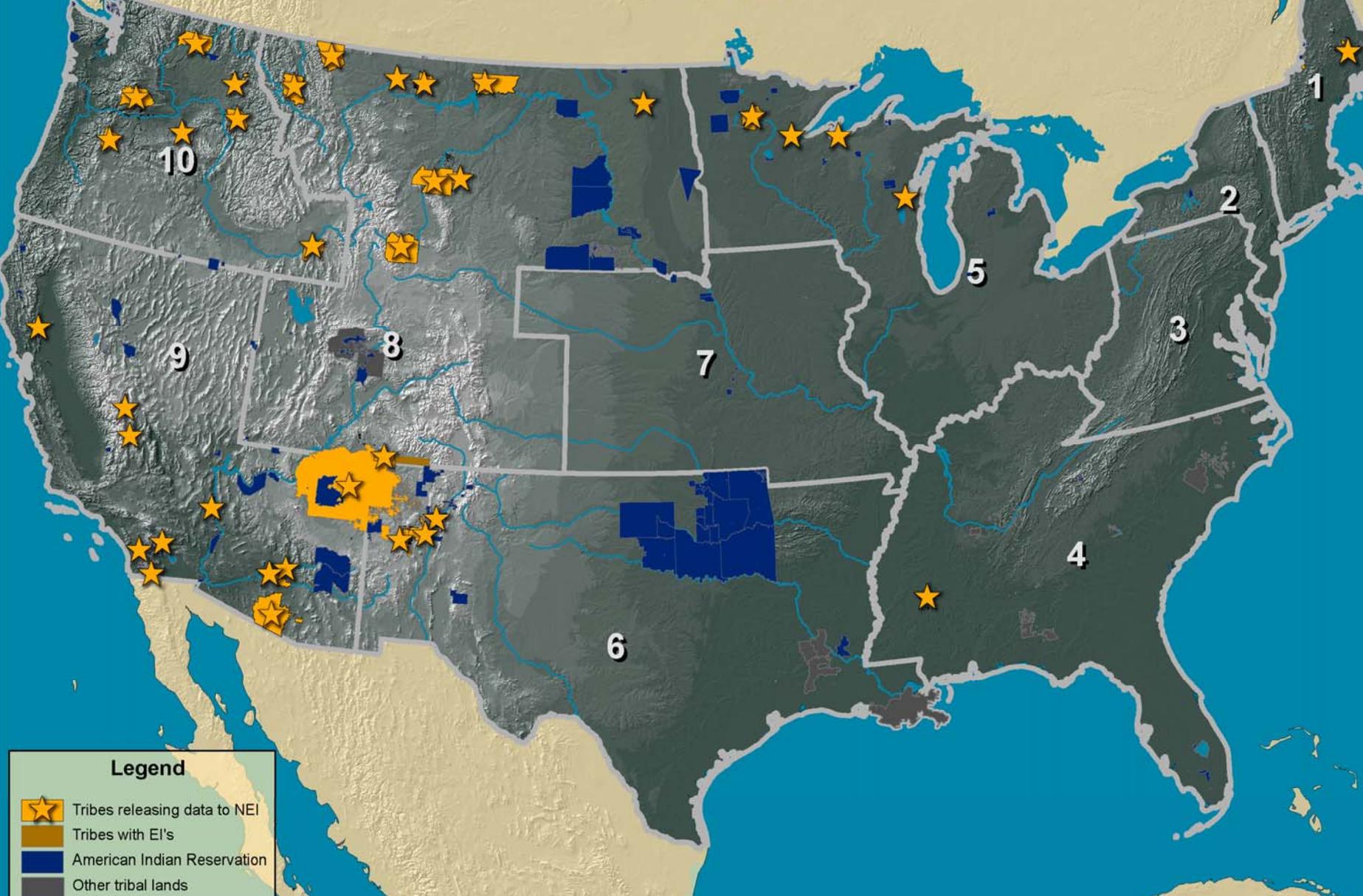
- **The 12.4% of tribes with any kind of EI in lower 48 states**
 - Cover 56% of total reservation land area
- **Only 29 tribes have completed comprehensive EIs**
 - Covering 18% of total reservation land area

Tribes with NO EI – of any kind

- **82%** of reservation land area not covered by a comprehensive EI
- **44%** of reservation land area has not been inventoried on any level.
- **Figures for area DO NOT include areas of Oklahoma Tribal Jurisdiction Statistical Areas.**

Tribes Releasing Data to the National Emissions Inventory

as of
May 10, 2006



Legend

-  Tribes releasing data to NEI
-  Tribes with EI's
-  American Indian Reservation
-  Other tribal lands

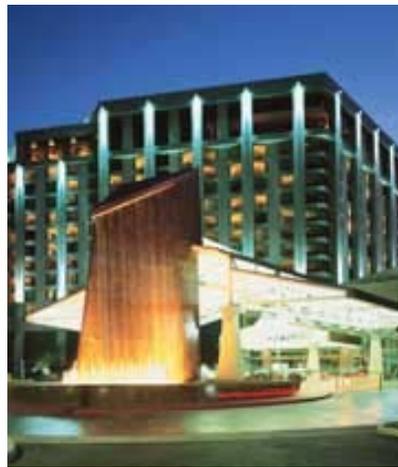
Reservation Title V Sources

- As of December 31, 2005
 - **Ninety-five** Title V, Part 71 sources on tribal land
 - Of that 95, 70% are oil and gas related

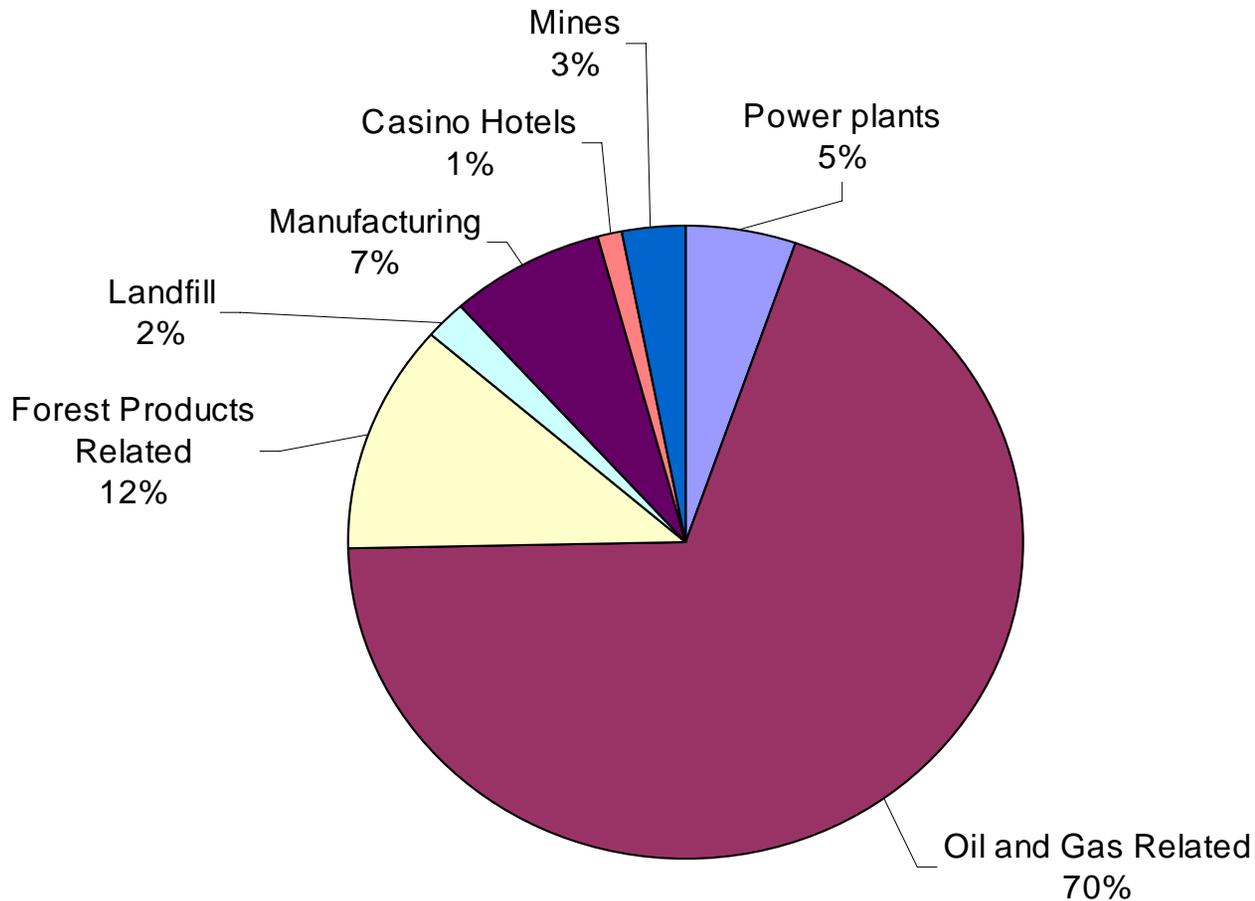
Total 2002 SOx emissions, tons	Total 2002 NOx emissions, tons	Total 2002 VOC emissions, tons
39,389	94,152	4,314
Minus Navajo Nation Power Plant's contributions:		
2,540	20,321	4,264

Reservation Title V Sources

- As of December 31, 2005:
- Five tribes with Title V sources had not completed an EI
- Five additional tribes with Title V permits in process do not have an EI



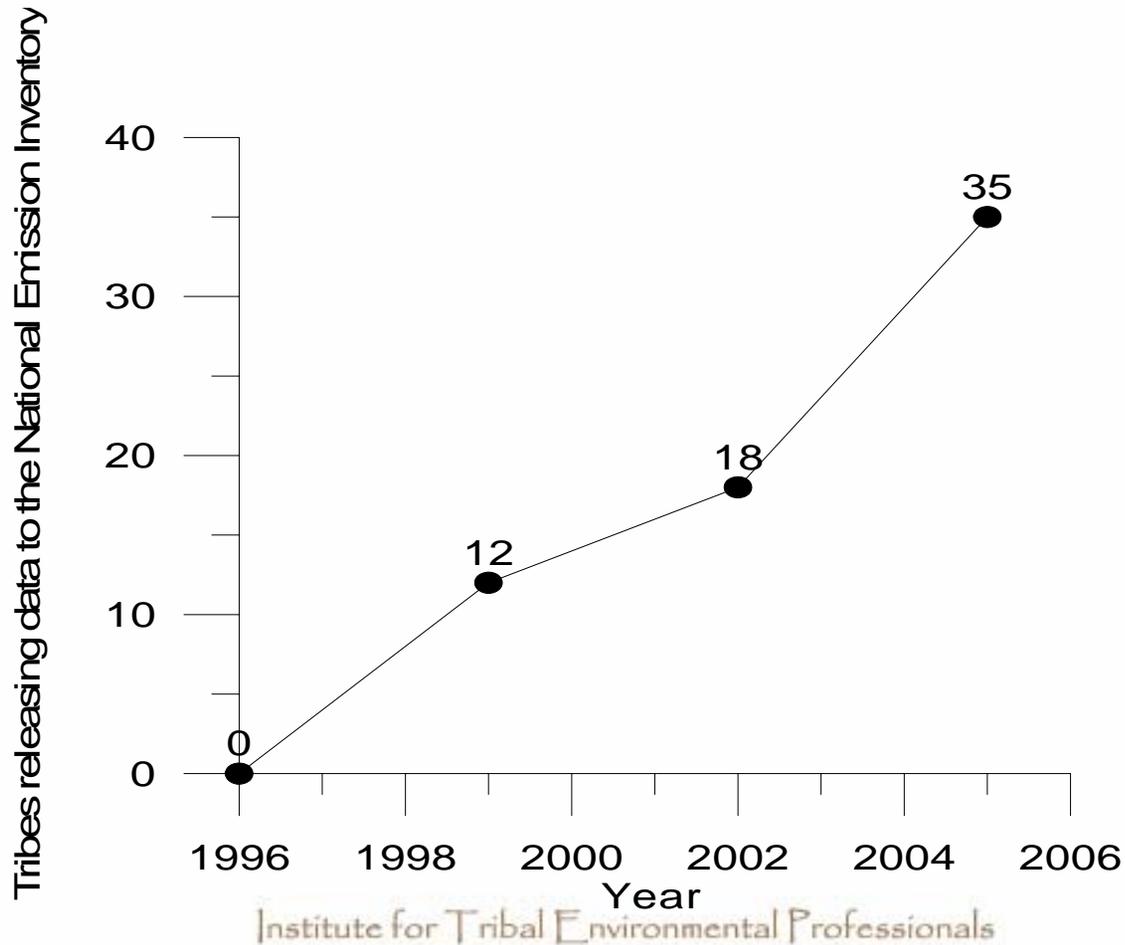
Types of Tribal Title V Sources



Total of 95 Tribal Title V Facilities

Conclusions

- Much remains to be done, BUT
- Progress has been excellent!



Conclusions

- 81% of the 95 Tribal Title V Facilities have been inventoried for 2002
- 56% of Reservation land area has some of EI complete
- 82% of Reservation land area needs a comprehensive EI.



Challenges

- **How can tribes inventory mobile sources in a way consistent with regional inventories?**
- **Decrease in program funds**
- **Coordinating with state agencies for a regionally consistent inventory.**