

Status Report to the Stationary Sources Joint Forum:

**EMISSON INVENTORY AND CONTROL
TECHNOLOGY TECHNICAL SUPPORT
CONTRACT**

September 7, 2005

Presented by:

Eastern Research Group, Inc.

ENVIRON International Corporation



Overview of Presentation

- **Part I: Quality Assurance and Revision of the 2002 Point and Area Sources Emissions Inventory**
 - Overall method and results, oil and gas, Tribal
- **Part II: 2018 Baseline Projections**
 - Overall method and results, EGUs, oil and gas
- **Part III: Other Ongoing Work by ERG and ENVIRON**

Presenters: Paula Fields, James Russell,
Marty Wolf, Mae Thomas

2002 EI QA and Revision - Scope

- Improve 2002 WRAP point and area source inventories using all available data
- Assess completeness of geographic, facility, source category, and pollutant coverage
- Collect comprehensive control technology information
- Provide data for other tasks—projections, control technology analyses

2002 EI QA and Revision - Method

- Compiled point and area source master inventory databases
- Assigned common facility identifiers
- Compiled control device information
- Contacted several state and local agencies to resolve questions, obtain missing data files
- Verified/corrected EPA's assignment of common facility identifiers
- Compared reported emissions values to identify outliers
- Gap filled and applied surrogate data

Methodology – cont.

- Incorporated CAMD NO_x and SO₂ CEMs
- Incorporated Tribal databases, adjusted any double counting
- Adjusted any area source double counting with oil and gas sources, wildfires, fugitive ammonia, road dust, windblown dust, etc.

Methodology – cont.

- **EGUs:**
 - Resolved any conflicts in controls
 - Assigned BART flags in Site (SI) and Emission Unit (EU) tables
- **QA'ed point source stack parameters**
- **Incorporated agency revisions provided via NEI review process**

2002 Revised EI Deliverables (Non-Oil & Gas)

- Posted draft 2002 revised inventory for agency and stakeholder review and comment (July 22)
- Finalized inventory based on comments
- Prepared IDA files for smoke processor (Aug 10)
- Prepared NIF files for upload into EDMS (Aug 19)

Point Source Reporting Thresholds

- AK, AZ, ND, UT: 100 tpy PTE
- AZ: 100 tpy PTE and synthetic minors
- CO: 2 tpy
- ID:
 - CO = 1,000 tpy
 - Other criteria = 100 tpy
- SD: 100 tpy
- NM, WY: 25 tpy PTE
- NV: 5 tpy PTE
- OR: 40 tpy PTE
- WA:
 - CO = 5 tpy
 - NO_x, SO₂, VOC = 2 tpy
 - PM = 1.25 tpy
 - PM₁₀ = 0.75 tpy
- Tribes: Various

Next Steps

- Prepare draft report
- Revise report based on comments

Tribal Inventory Development

- **Objective:** Develop point source inventories for 7 Tribal entities/reservations
- **Scope:**
 - Title V/Part 71 sources
 - Non-Title V sources
 - “Minor sources” > 50 tpy (actual) NO_x or SO_x
 - Oil and gas exploration and development sources

Source-type by Reservation

- Wind River Reservation (Title V - ITEP, O&G)
- Ute Mountain Tribe (O&G)
- Navajo Nation (Title V - ITEP, O&G, minor sources)
- Tohono O'odham Tribe (Title V - ITEP)
- Colville Tribe (Title V)
- Yakama Nation (Title V, minor sources)
- Warm Springs Reservation (Title V)

Progress to Date

	Title V	Minor Sources	O&G
Wind River	Completed (2 sources)	None	Data obtained
Ute Mountain	None	None	Data obtained
Navajo	Completed (13 sources)	Area source estimates only	Data obtained
Tohono O'Odham	Completed (1 source)	None likely	None
Colville	Completed (2 sources)	None	None
Yakama	3 sources completed, need data for 1 source	None likely	None
Warm Springs	No data available (1 source)	None	None

Next Steps

- Obtain remaining Title V data and format for EDMS upload (Yakama Forest Products)
- Confirm no minor sources at Yakama and Tohono O'odham
- Upload additional data collected to EDMS
- Finalize report to include projections and address comments on draft report

Oil & Gas Methodology (2002)

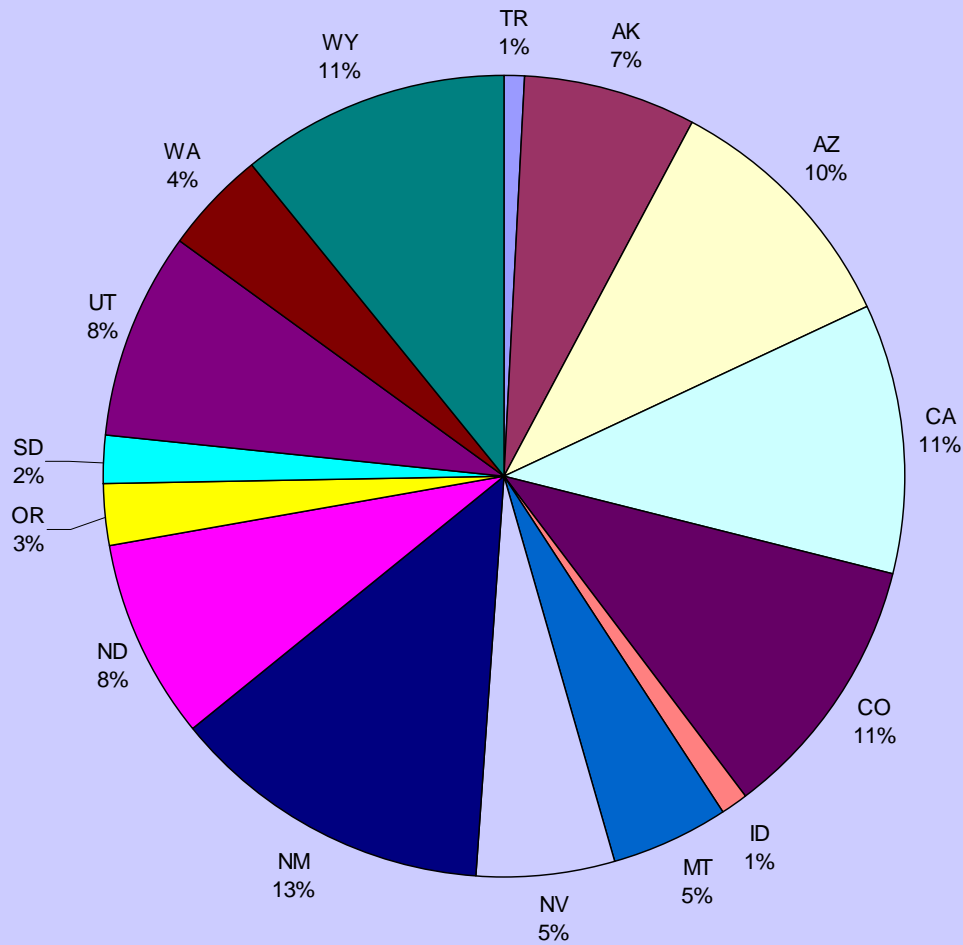
- ENVIRON

2002 Revised Emissions Inventory

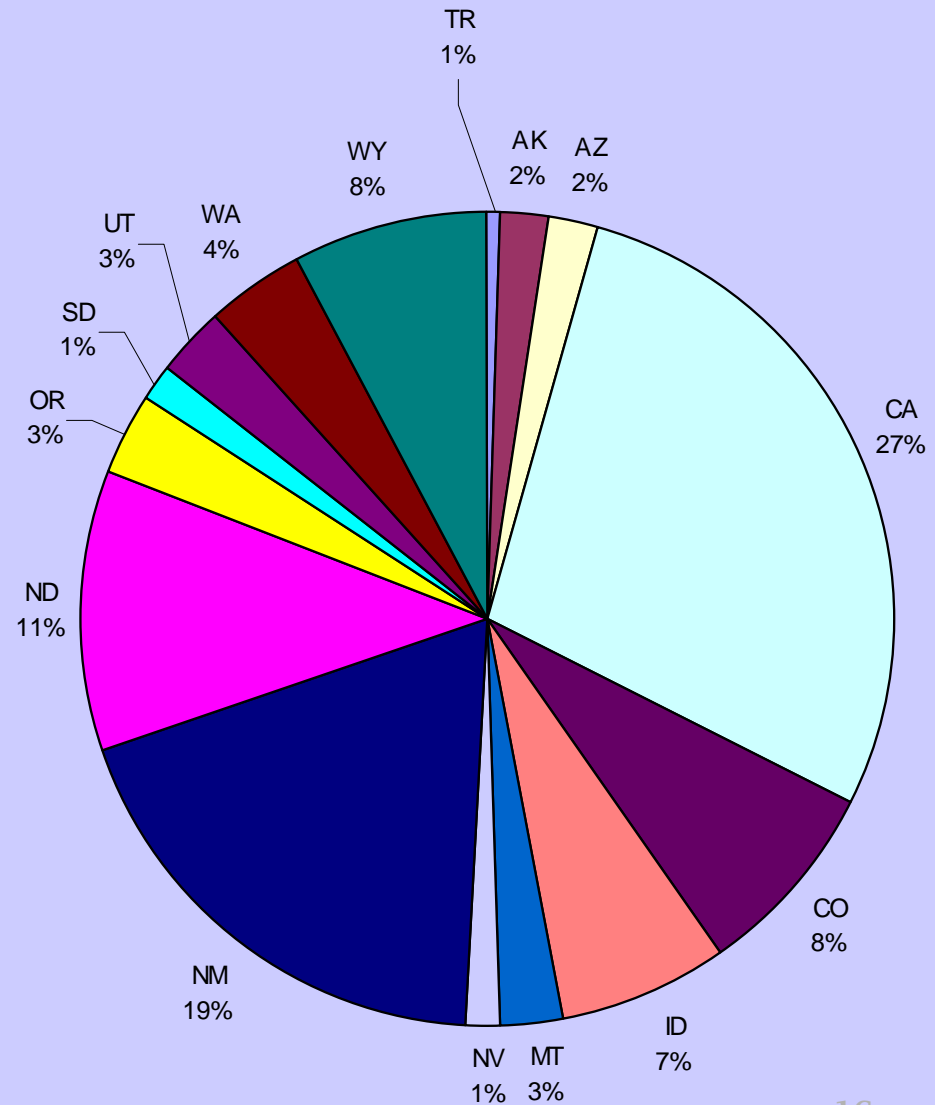
- Point and area source summary tables by state, Tribal total (handout)
- Interpreting results:
 - Only primary PM₁₀ and PM_{2.5} is shown, although filterable is reported. (CA reported only filterable.)
 - ND area source inventory entirely gap filled by EPA
 - CO low point source reporting thresholds
 - NH₃ does not include fugitive sources

2002 Revised EI - NO_x

Point= 1,088,611 tpy



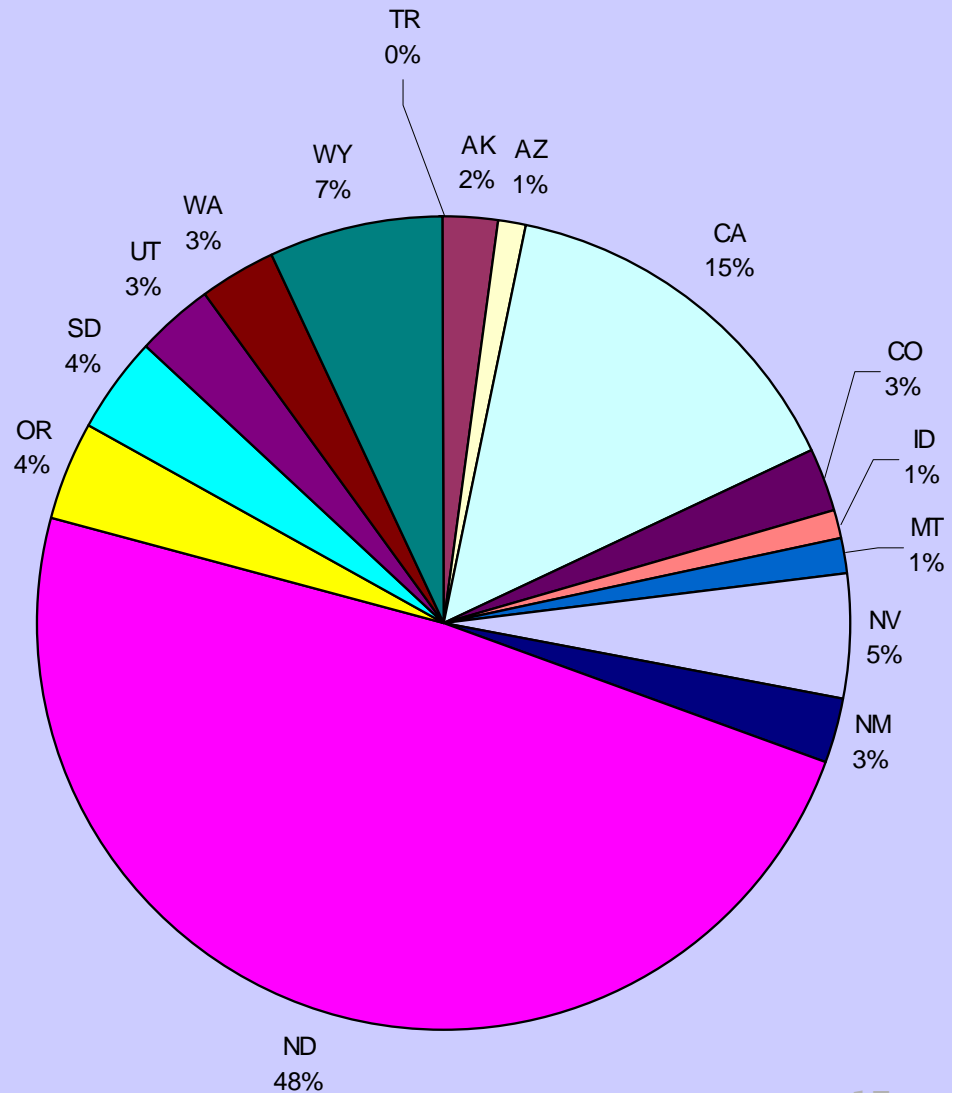
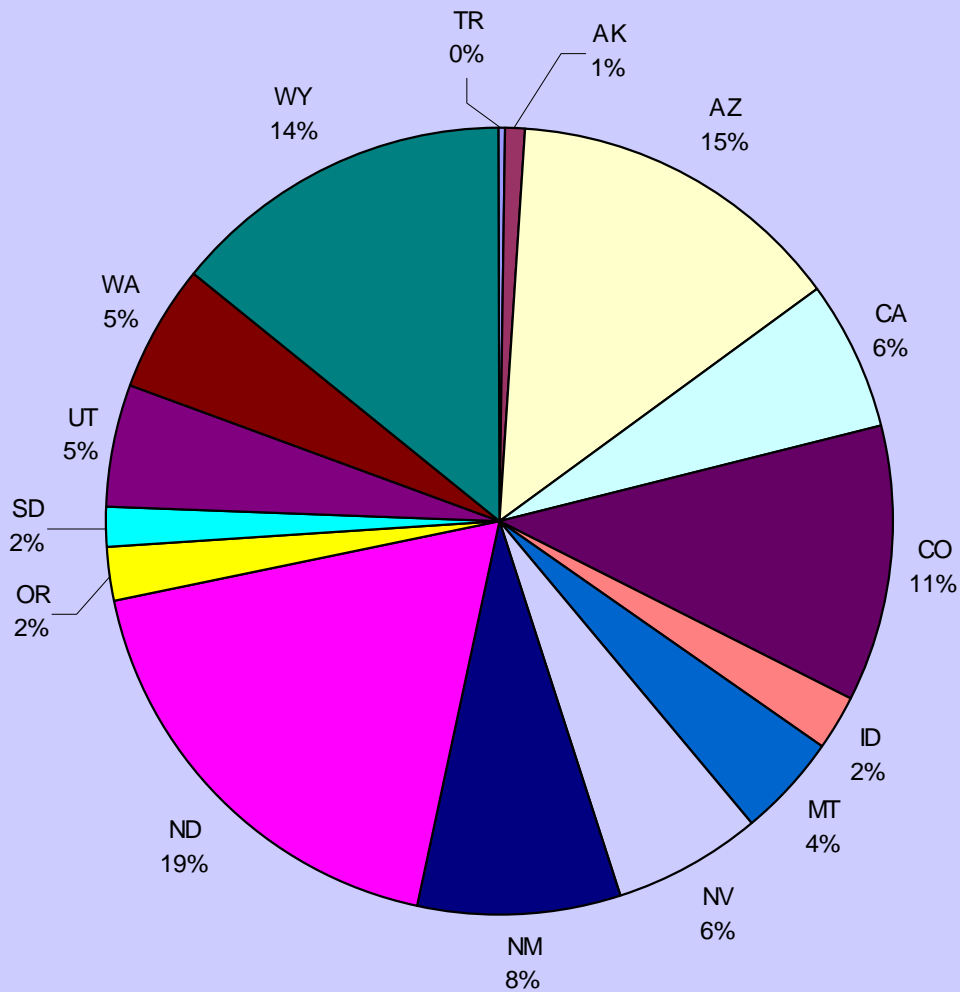
Area (includes o&g)= 453,257 tpy



2002 Revised EI - SO₂

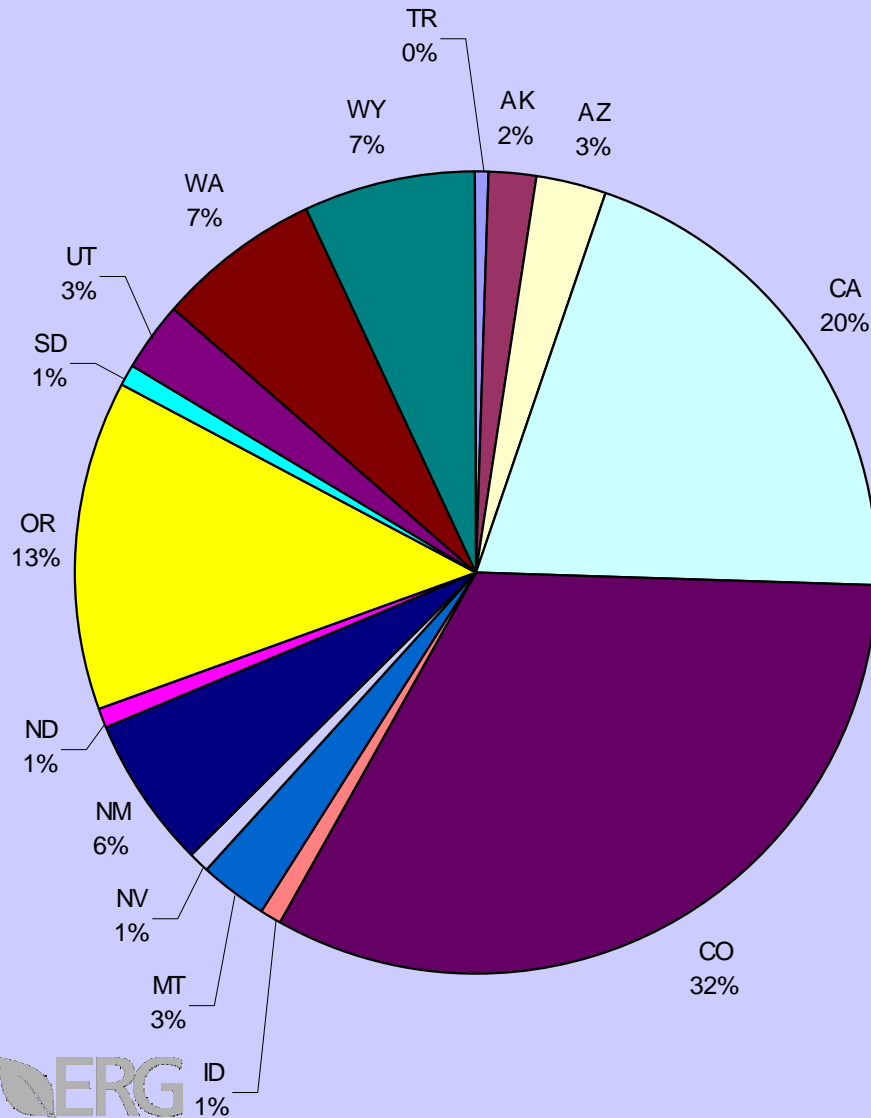
Point= 849,210 tpy

Area (includes o&g)= 255,715 tpy

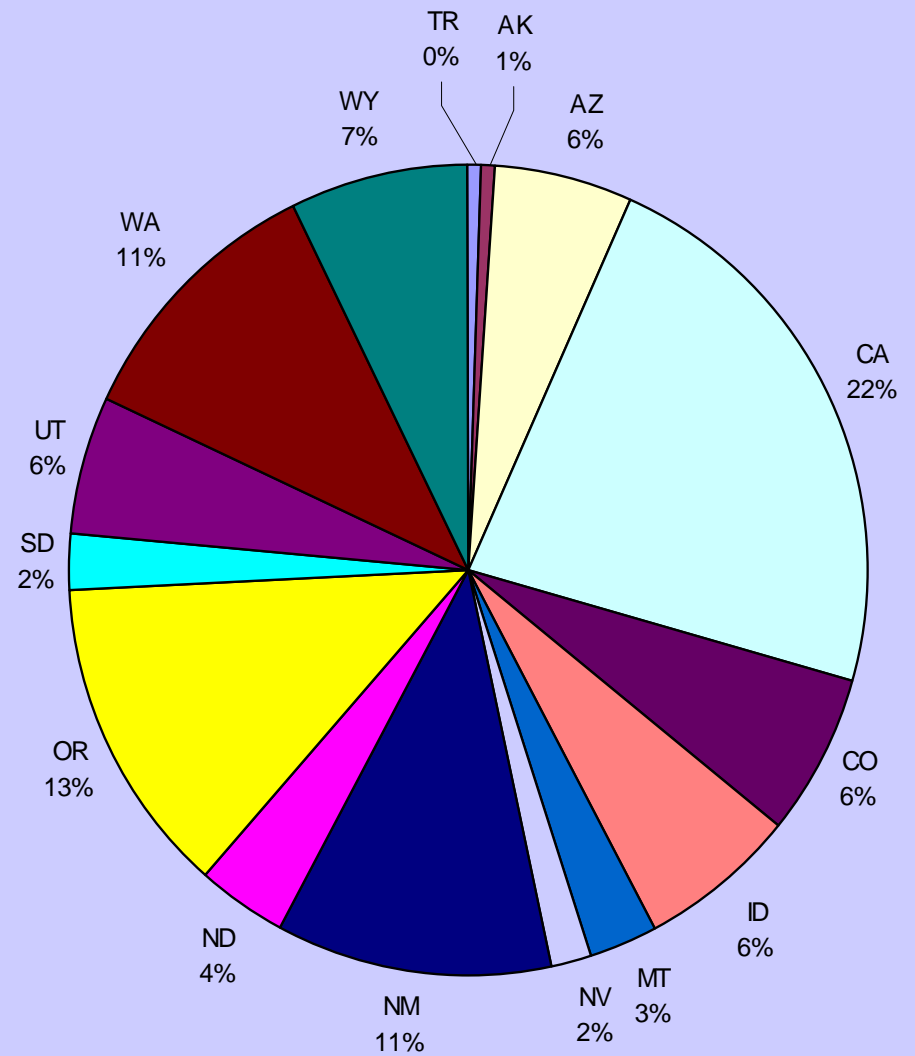


2002 Revised EI - VOC

Point= 282,234 tpy



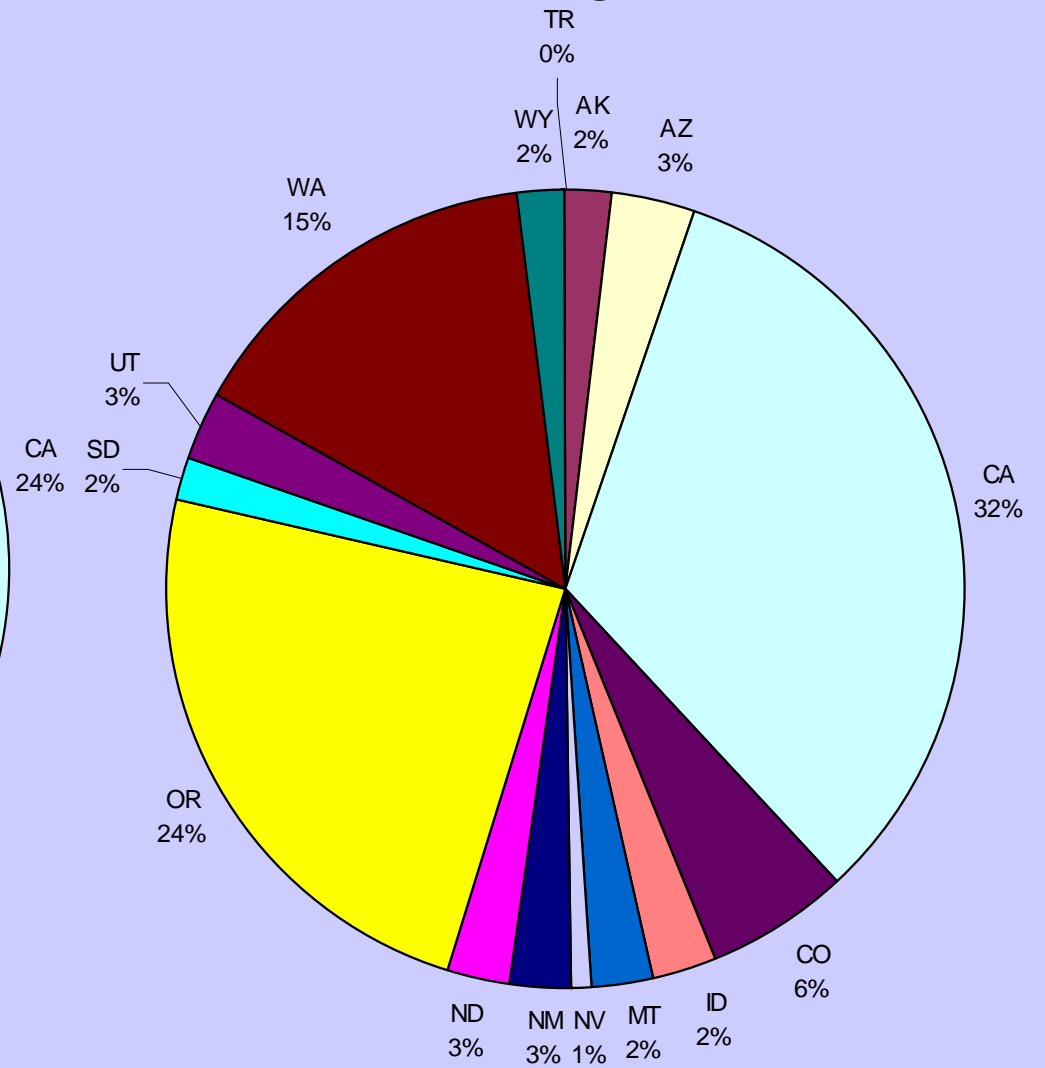
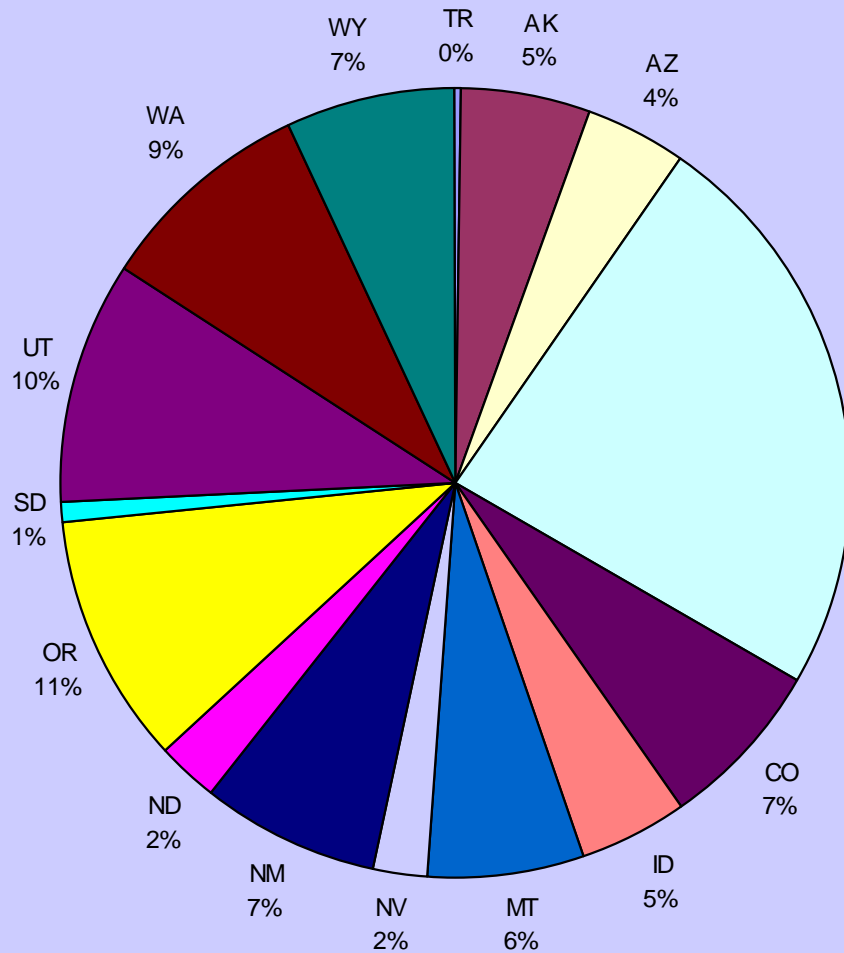
Area (includes o&g)= 1,960,682 tpy



2002 Revised EI - CO

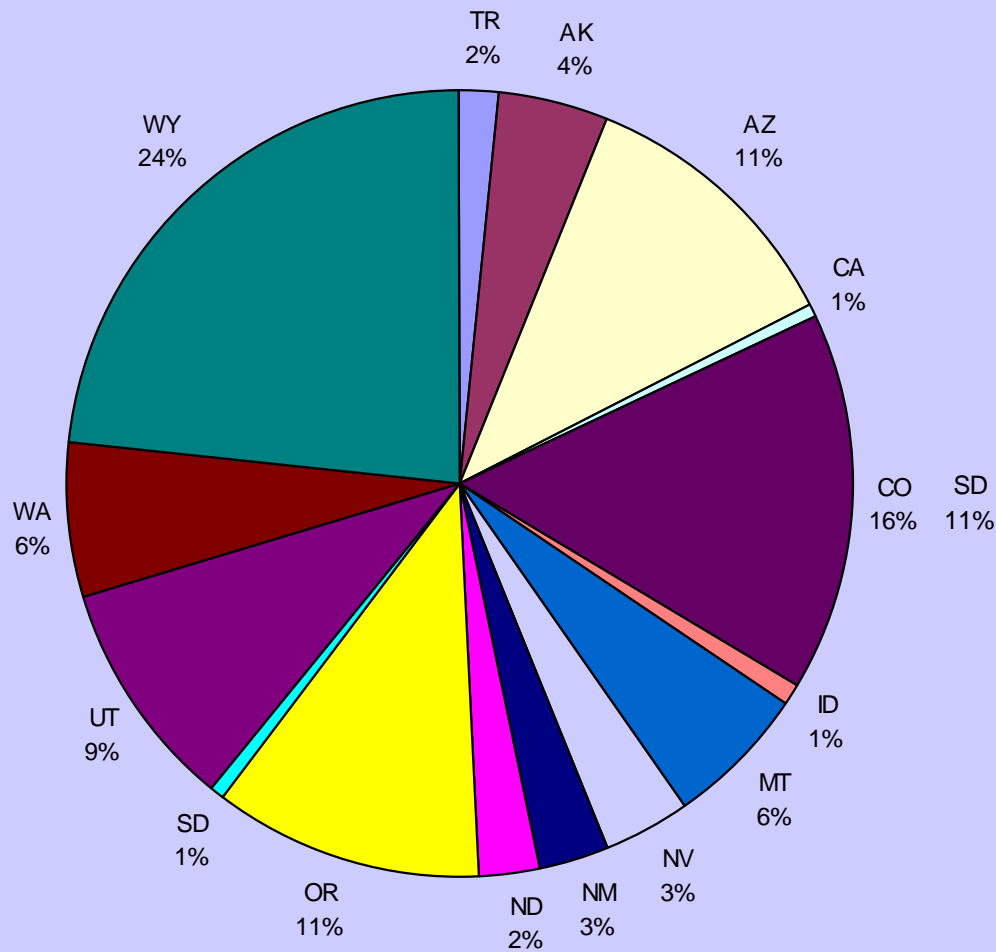
Point= 523,392 tpy

Area (includes o&g)= 1,487,543 tpy

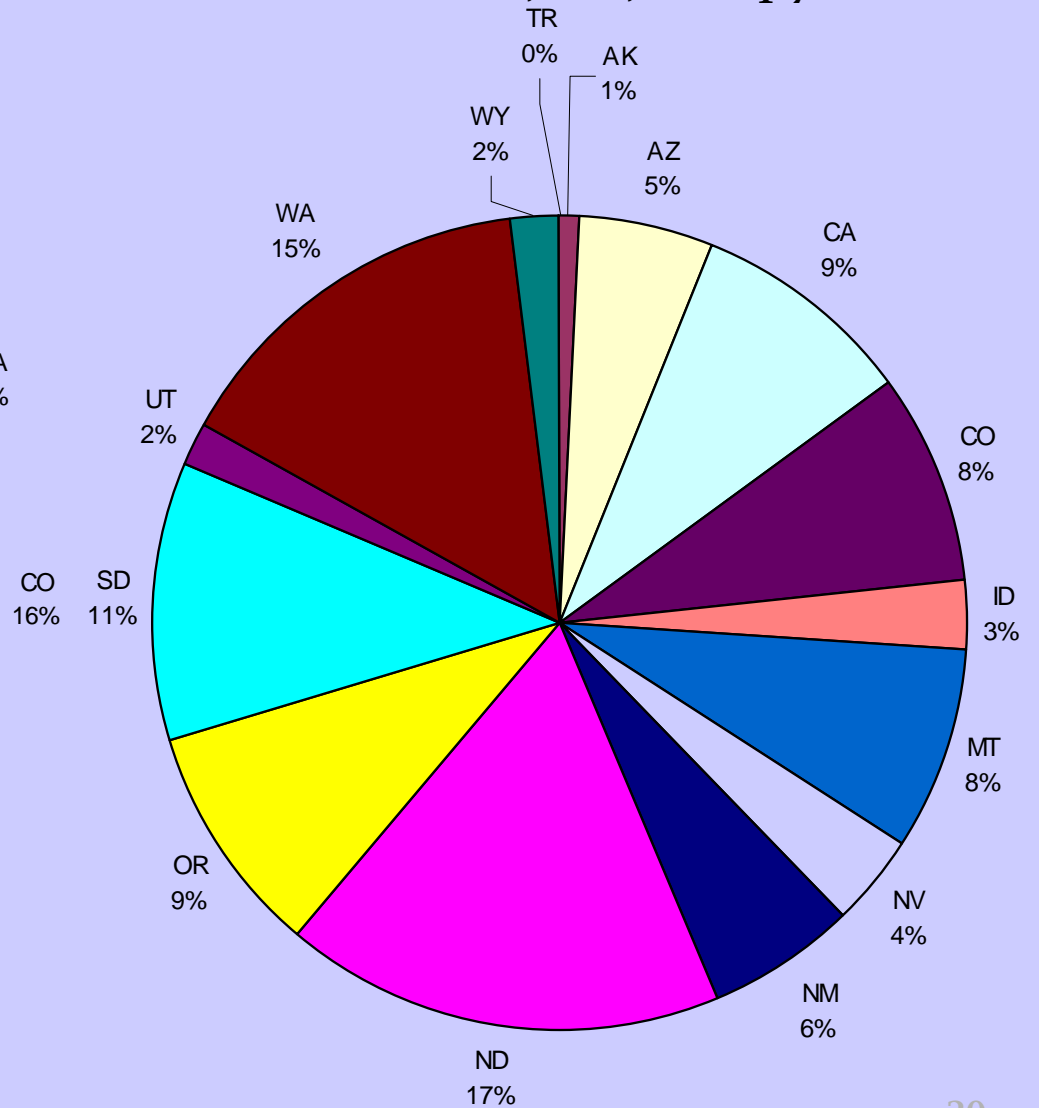


2002 Revised EI - PM₁₀-PRI

Point= 136,724 tpy

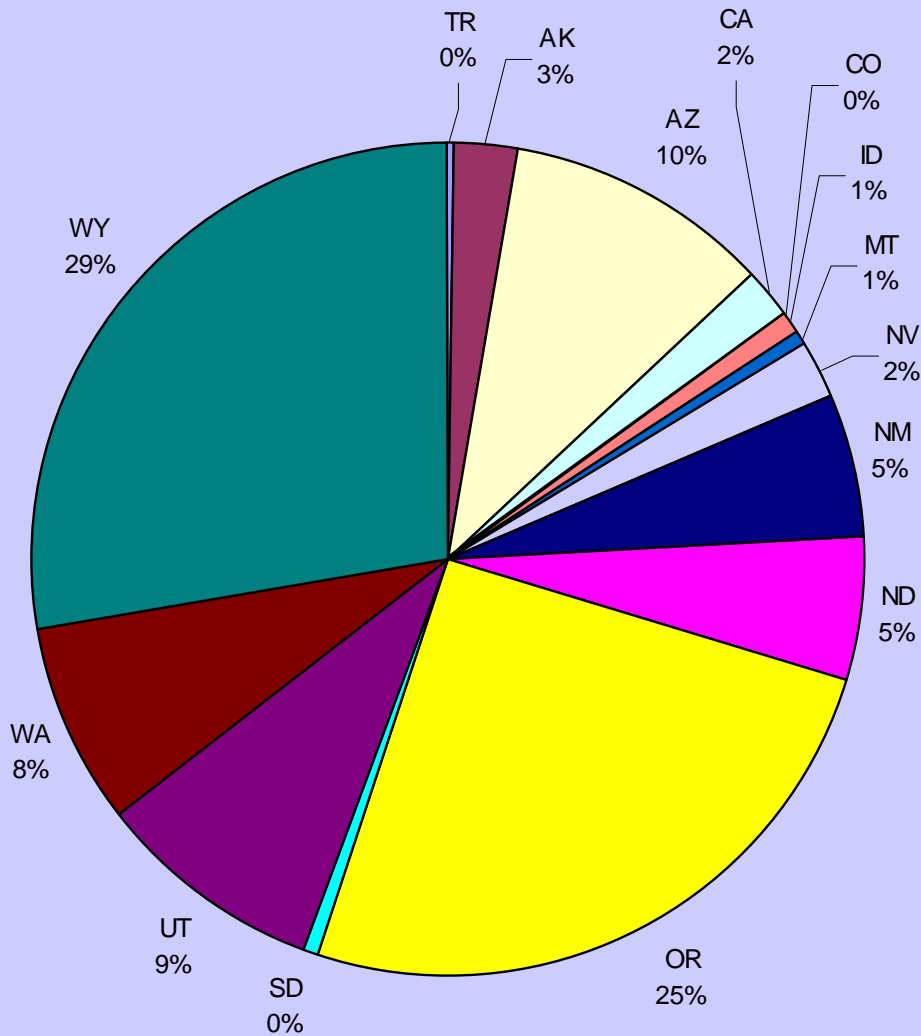


Area= 1,893,156 tpy

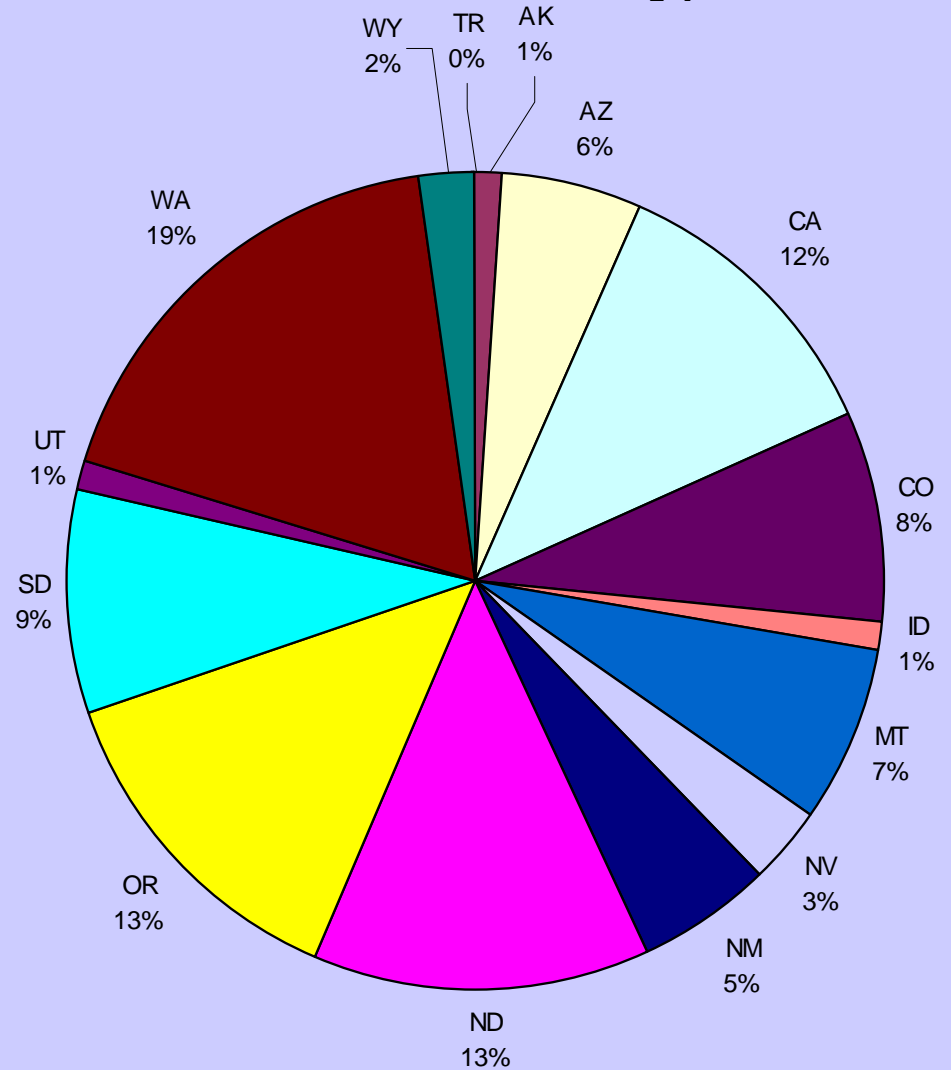


2002 Revised EI - PM_{2.5}-PRI

Point= 49,337 tpy



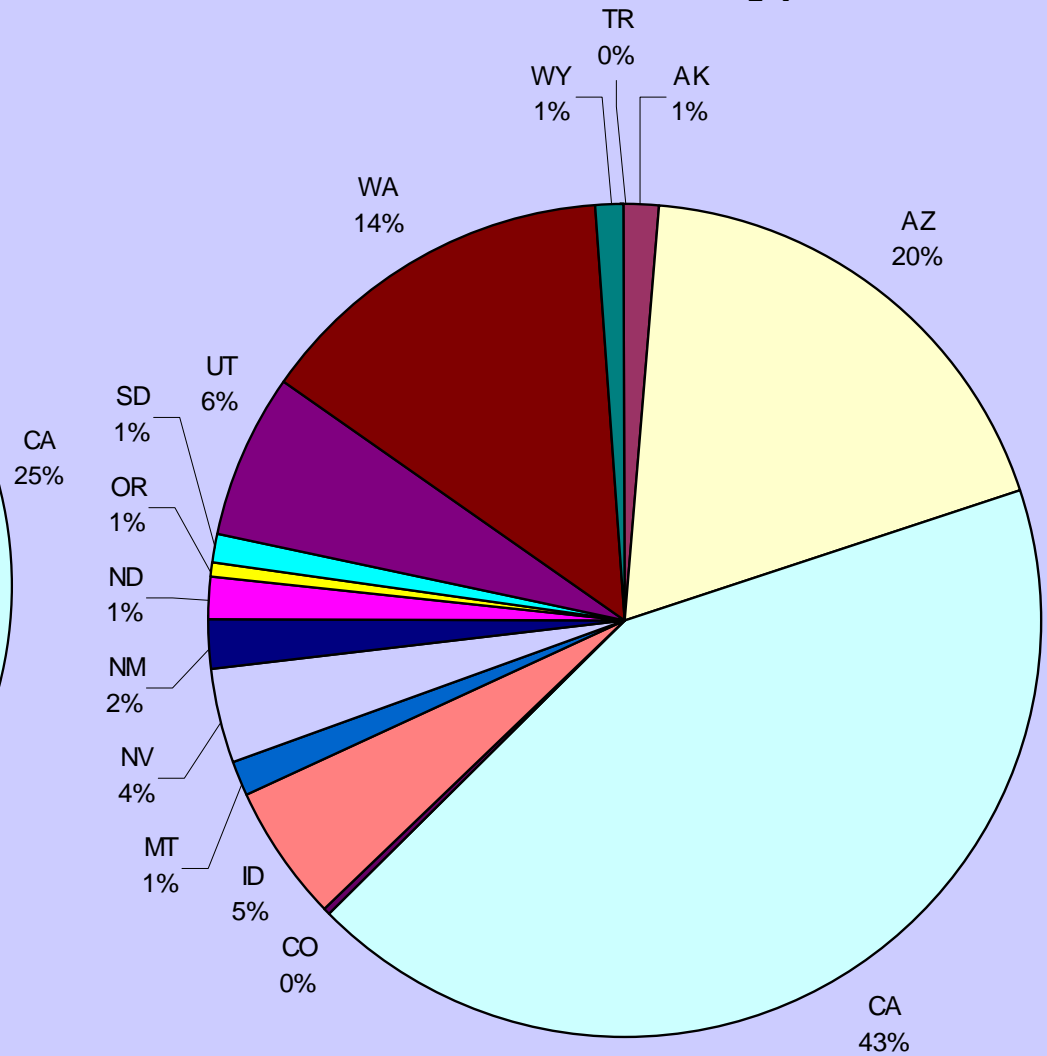
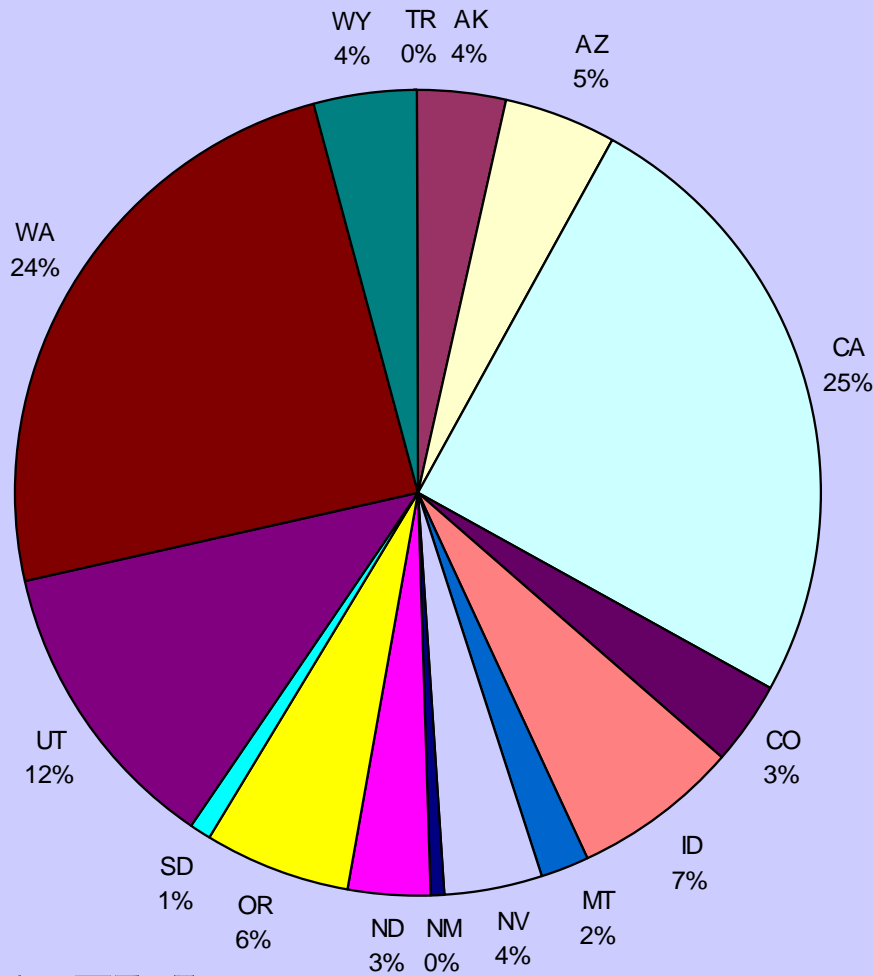
Area= 512,671 tpy



2002 Revised EI - NH₃

Point= 15,972 tpy

Area= 31,784 tpy



THANK YOU!

Any questions?

