AQS CONFERENCE 2007

Ed Lillis

June 20, 2007

Welcome

- Thanks for coming

- Appreciate your agency's interest

- Want the Conference to be helpful to you

- Want your input and feedback on what we can do better

Introduce the AQS Team

- Jake Summers   AQS Team Lead
- Bill Frietsche   p and a data
- Bonnie Johnson   Discoverer
- Chuck Isbell   User Support
- Jerry Husketh   AQS Conference
- Jonathan Miller   AQS Training, etc.

- Nick Mangus   XML, web services

AQS Team Retirements

- Virginia Ambrose--   August 2007

- Bonnie Johnson--   January 2008

- Jerry Husketh--   January 2008

- Chuck Isbell--   early-mid 2008??

Will be hiring 1 new person in next few months and hopefully others later

Goals for the Conference

- We want to improve data transfer between EPA and State, local and tribal agencies
  - the air quality data you collect is important to OAQPS and others

- We want State, local and tribal agencies to know how to use AQS
  - 6 different training sessions this year
  - AQS, Level 2 support (Tom Lewis) is here for 1 on 1 help
  - Jake and others available to discuss AQS issues with you

- We want AQS to operate efficiently and meet your needs
  - Want your input and feedback on AQS
  - You see things that we sometimes don't see
  - What can we do to make the system easier to use?

Why are the data important to OAQPS?

- They are used in many regulatory purposes
  - Attainment, non-attainment area decisions
  - Design values for SIP's

- They are used for many non-regulatory purposes
  - Trend analyses and determining progress
  - Air pollution health studies
  - By researchers and scientists for air quality analyses
  - By the public to decide where to live or vacation
  - By students, contractors for various projects

Data Submittal to AQS

- 3 rd quarter--July 1 to Sept 30, 2006 --data were due Jan 1 2007

- 82.3% of the expected State agency data was submitted by due date
  -includes data from local agencies within the State

- North Dakota had the highest data completeness submission rate of 98.2%

- 15 States had a 90% or better completeness rate
  - ND, DC, NH, SD, VA, IL, OK, WV, NM, MA,PA, AZ, TX, KS, MT

- 33 States had data completeness rates better than 82.3%
  - including States listed above and IA, MD, OH, FL, KY, HI, GA, DE, RI, NC, MI, AL, MN, SC, WA, ME, CO, MO

- 6 Regions had data completeness rates above the national average
  - Regions 3 (93.1%), 8 (86.4%), 4 (85.8%), 6 (84.8%), 5 (83.1%), and 7 (83.3%)

What's New?

- About 100 tribes are collecting air quality data

- New Monitoring rules are in place

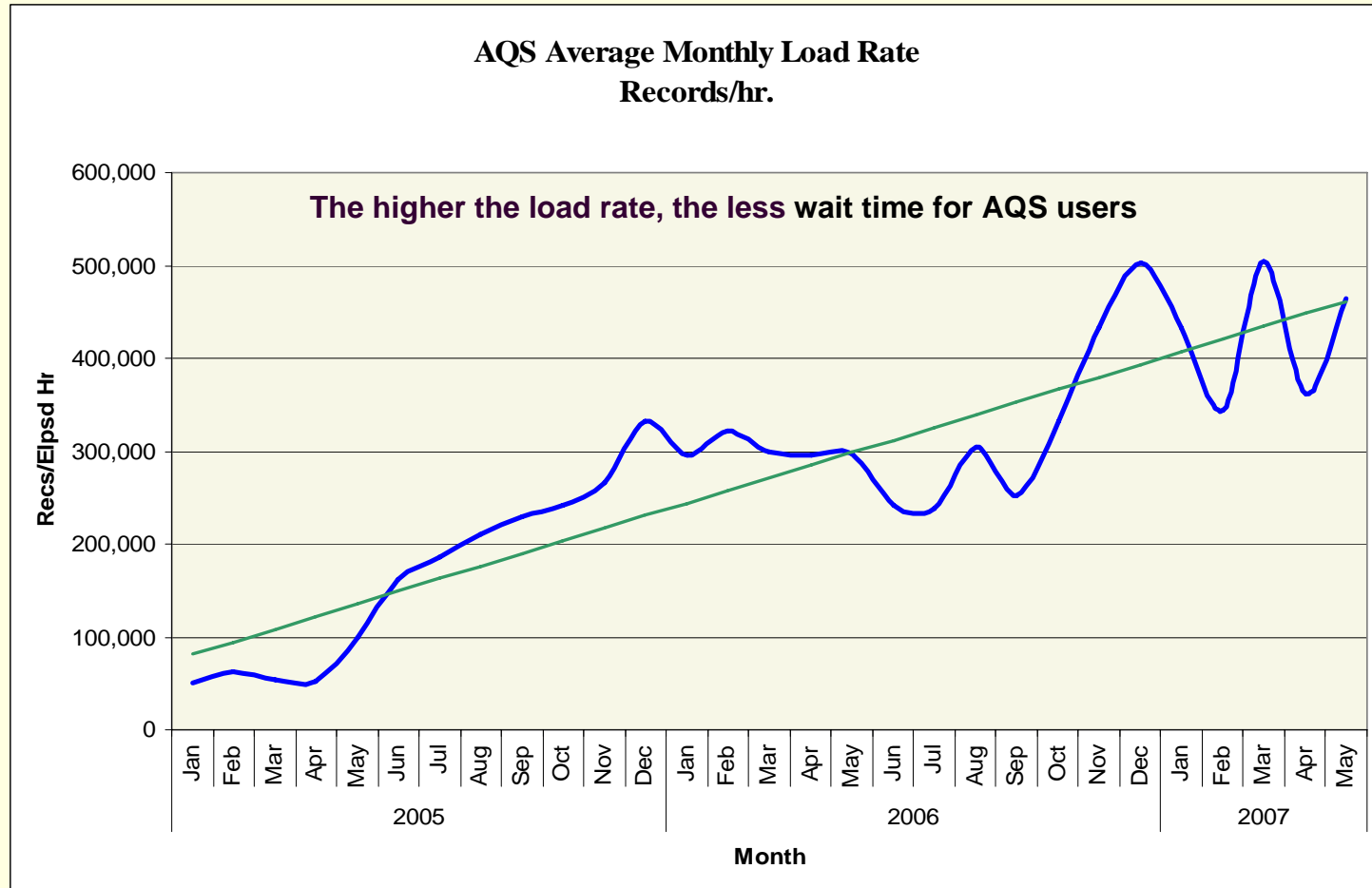- The AQS load rate continues to get faster

Growth in Tribal Programs

- There are now about 120 tribal air programs

- About 98 tribes collect air quality data
    - Generally at 1-2 monitors

- Tribal monitoring programs are located in 9 of the 10 EPA Regions
    - The majority are in EPA Regions 5, 6, 7, 8, 9, 10

- 52 tribes have submitted data to AQS as of March 2007

- States, EPA Regions and other tribes assist ½ of these tribes load their data into AQS

- We are working with Tribes to get more air quality data into AQS

New Regulations will require changes to AQS

- New monitoring rules will require several changes to AQS

- Jake will discuss the specific AQS changes

- Most of our 2007 budget will be devoted to funding these regulatory changes

- Good news--Received funding to develop Design Value Retrieval that AQS users have requested

AQS load rate continues to get faster

**AQS Average Monthly Load Rate
Records/hr.**

The higher the load rate, the less wait time for AQS users

Highlight Some Conference Sessions

- Air Compare Demo
  - —Wed @ 10:20

- Ambient Monitoring and Analysis Topics
  - Wed @ 1:00

- Monitoring Interactive Panel Discussion
  - Thurs @ 8:30

- Tribal Tool Box
  - Wed @ 3:20

Highlight Some Conference Sessions

- RO Caucus Sessions
  - Thursday @ 10:20

- National Environmental Information Exchange Network
  - Thursday @ 3:30

- New locational data in AQS
  - Thursday @ 4:15

In Closing

- Appreciate your efforts in submitting your agency's data to AQS

- Encourage you to take advantage of the training opportunities at the conference

- Encourage you to share your ideas on how we can improve AQS

- Have a good time and *thanks for your help*

Some AQS Stats

- About 615 registered AQS users
  - 115 new users since June 2006
- About 59 registered Tribal users
  - 19 new tribal users since June 2006
- About 50-60 AQS users use Discoverer each month
  - All users can use Discoverer

- About 60,000 AQS retrievals each year
- Average retrieval takes 20-30 seconds to run
- Median retrieval takes 6-8 seconds to run
- A few retrievals take 1 hour or more to run

More AQS stats

- About 90 million data records loaded each year
    - 1 record is a measured value, e.g., hourly concentration
- Average load contains about 15,000 records
- Average load rate is now about 400,000 to 450,000 records/hr
    - Load rate is now about 40 times faster that in 2001
    - The higher the load rate, the less time users wait for results