Tribal Air Monitoring session
2014 National Air Monitoring Conference

This part of the session will be informal and the material covered in some slides are in their initial stages – it is very crude at the moment – there may be errors.

I will briefly discuss
  • GIS project we are just starting work on
  • ITEP/TAMS GIS in Air Quality course.

Then, we will open the floor for questions about anything (GIS, air monitoring, HYSPLIT, QA/QC, TAMS, etc.).

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Lead 2013 Design values (Orange and Red Exceed NAAQS)

Data Source: Design Value Report downloaded from AQS on 7/18/2014 (snapshot)
Lead NAAQS is 0.15μg/m³ (rolling 3-month average)

Very Rough Draft
SO$_2$ NAAQS is 75 ppb (1Hr - 99 percentile - 3 yr average)

Point emission data source: 2011 National Emissions Inventory
What if the ozone NAAQS go to 70 ppb?

Dark Green: 60 ppb and less
Light Green: >60 to 70 ppb
Orange: >70 to 80 ppb
Red: >80 ppb
The ITEP/TAMS GIS in Air Quality Course has 9 exercises utilizing screen shots to show the procedures.
Exercise 3 in ITEP/TAMS GIS in Air Quality Course explores a high concentration on 7/22/04
Exercise 3 in ITEP/TAMS GIS in Air Quality Course explores a high concentration

Turn on NOx and VOC layers and zoom in

Quapaw Site

Coal-fired power plant (GRDA)

Coal-fired power plant (Muskogee)

Where the air was 24-hours earlier
Discussion