

Day 2 (0900-1500)

T2/P2 Fire Emissions Modeling Systems (30 mins)

Ottmar/Sandberg/Reinhardt/Russell

- T2/B3 Fuel Consumption and Emission Calculations.
 - What is the recommended process for characterizing fuel consumption and emission production from fires?
 - Fuel Consumption Models
 - Emission Production Models
 - Tradeoffs Wild/Prescribed
 - Accuracy needed?

Ferguson/

- T2/B4 Quality Assurance

Achtemeier/Janssen/Tonnesen/McQueen/Pierce/Goodrick/Liu

- T2/B4 Air Quality Models
 - Fitting fire emissions into an integrated system of air quality modeling--
 - SMOKE/CMAQ
 - BlueSky
 - Point vs Area and Vertical Distribution
 - Time and Space Variance

Capacity for Emissions Inventory

Input Data

Synthesis, Modeling

Integration, Interpretation

Activity Tracking

Vertical Distribution

Inventory Approach

Fuels Data

Residual Smolder

Data Quality Objective

Fire Environment

Crown Involvement

Communication,
Archiving

Fire Behavior

NonUniformity

Validation

Pattern and Inclusion

Remote Sensing

CONSUME

SMOKE

FCCS

FOFEM

CMAQ

Fuel Mapping

FEPS

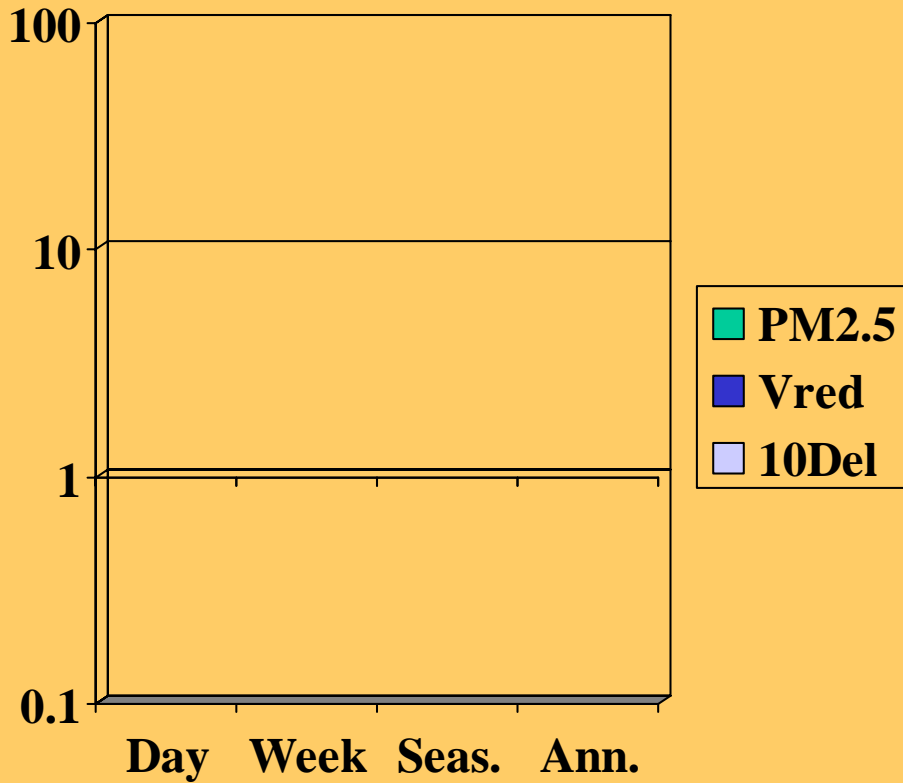
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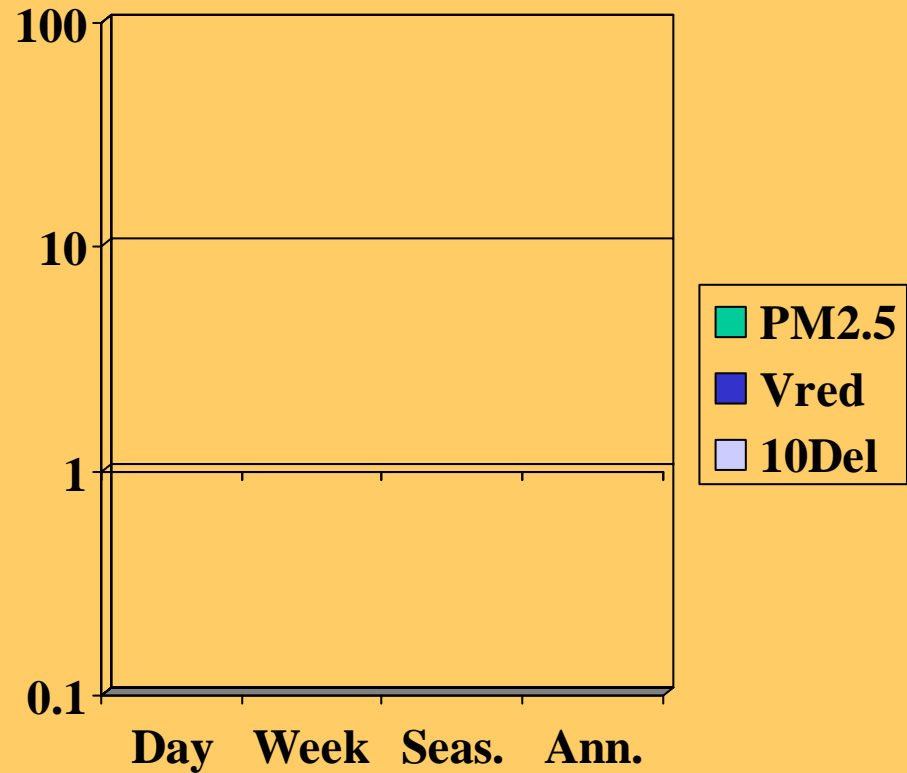
What's good enough?

Magnitude of error in "300Acre Event" EI

2002



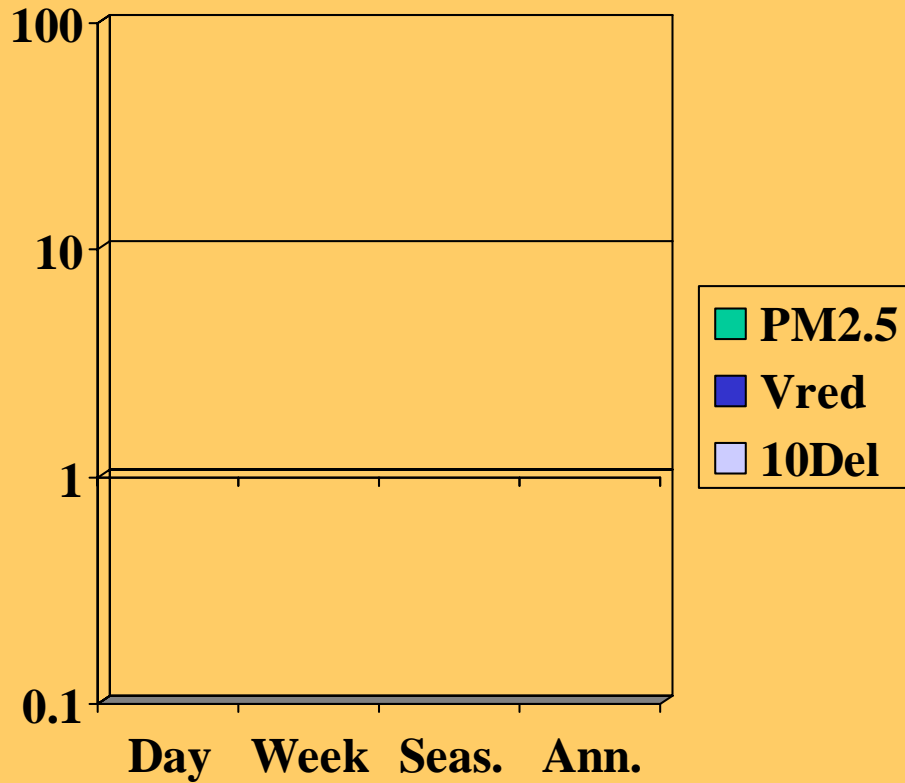
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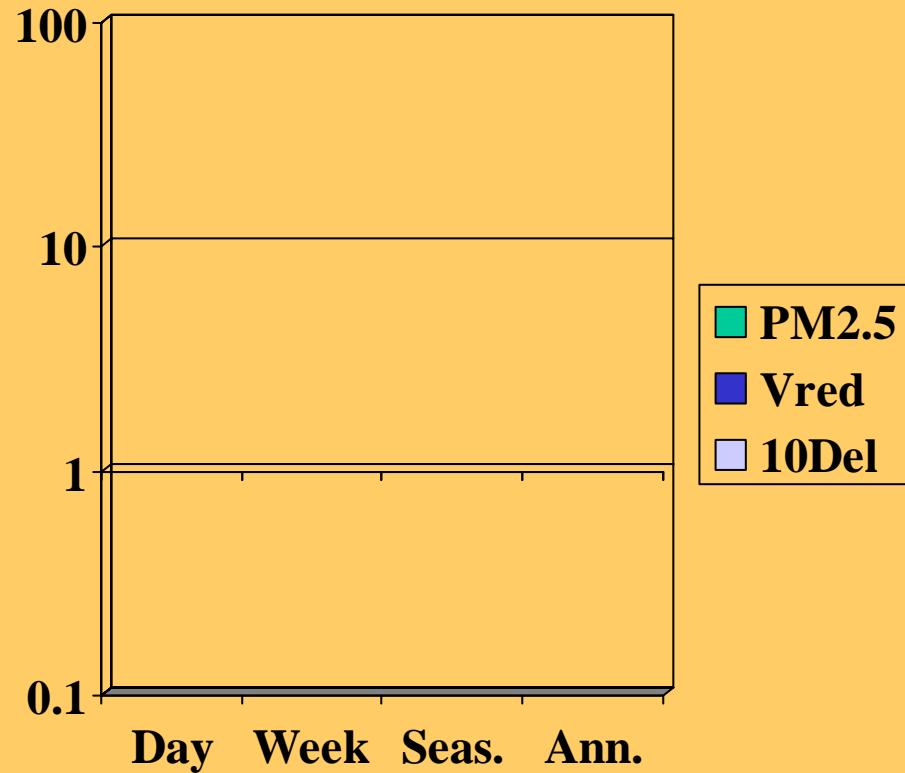
What's good enough?

Magnitude of error in "impact area" EI

2002



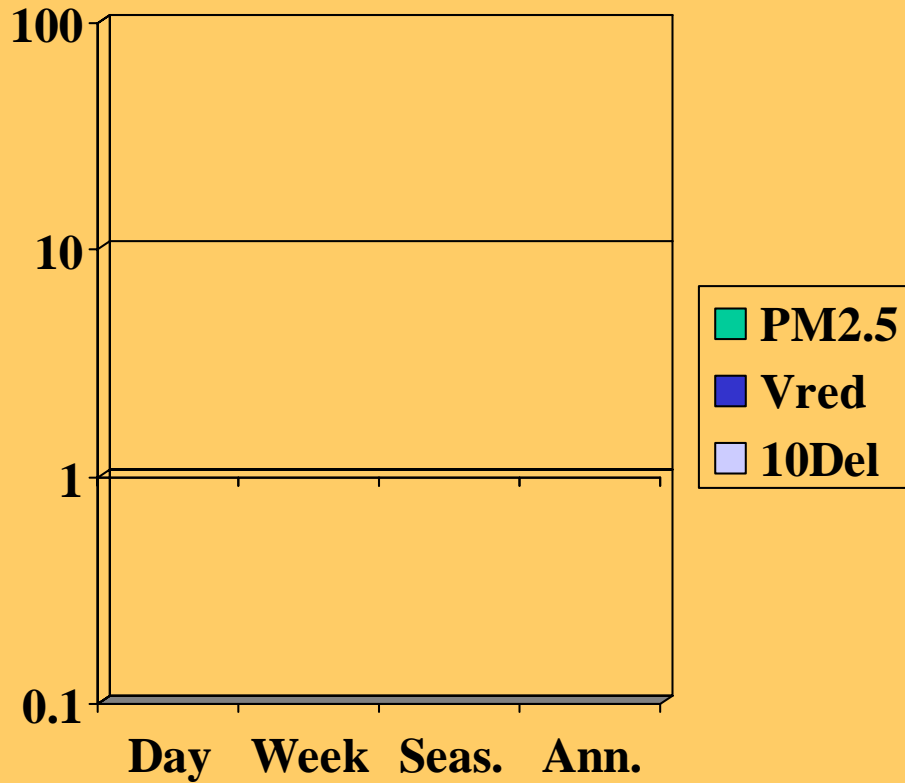
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What's good enough?

Magnitude of error in "State" EI

2002



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