

Committed to Achieving Clean Air to Protect the Public's Health and the Environment



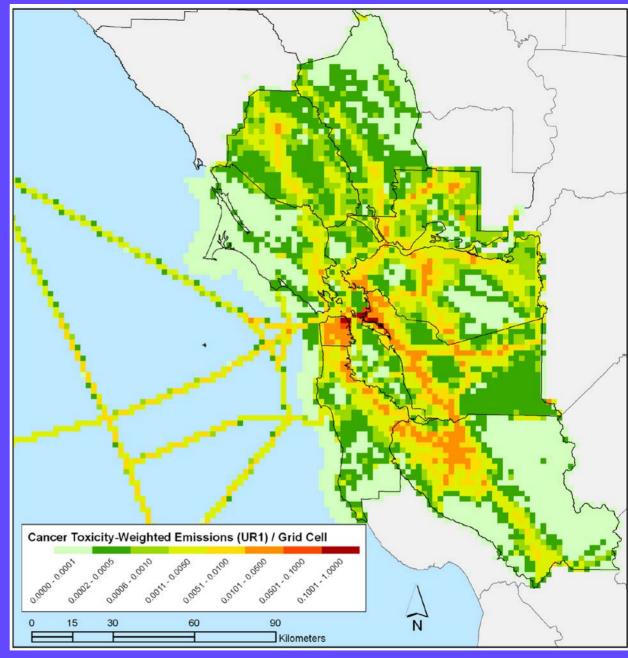
# CARE Program Status & Update

#### Phil Martien, Ph.D. Bay Area Air Quality Management District CARE Task Force Meeting March 4, 2008

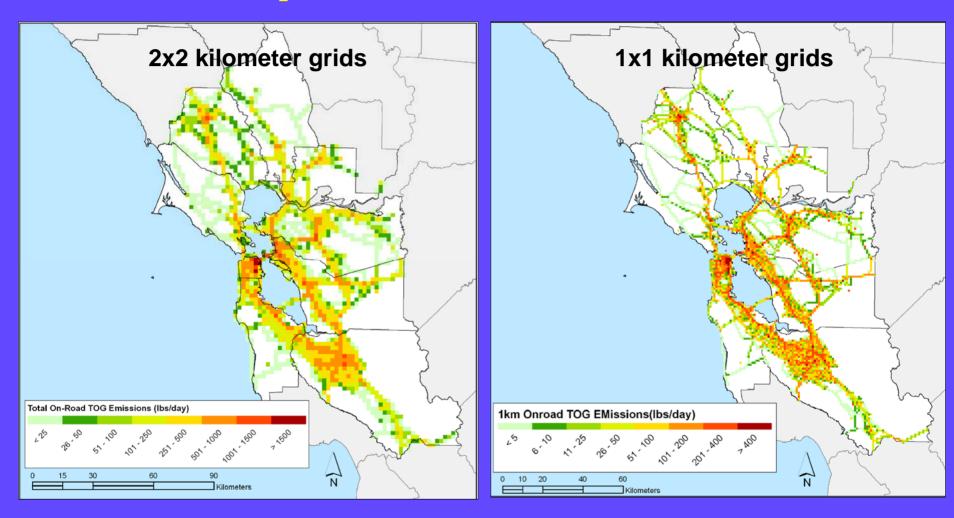
### Overview

- Regional TAC emissions updates completed
- GPS data obtained to aid with West Oakland truck survey
- Meeting on West Oakland health risk assessment results scheduled
- CARE Mitigation Action Plan progressing

Total Cancer Risk-Weighted **Emissions**: Update from Year 2000 to Year 2005



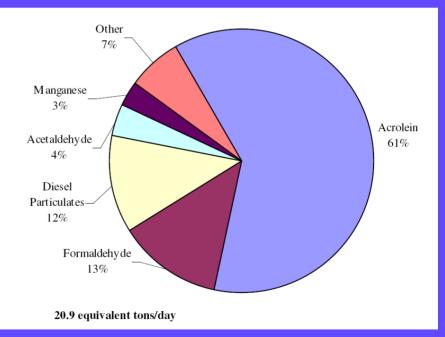
# More Resolution Available in Updated Emissions



### New Speciation of Organic Gases from Diesel Exhaust -> More Risk from Diesel

- Old speciation: acrolein in gasoline and aircraft exhaust
- New speciation: acrolein also diesel in diesel exhaust
- Diesel exhaust gases a significant source of chronic and acute risk, in addition to the risks from diesel particles

Chronic, Non-cancer Risk Weighted Emissions Year 2005



## **GPS Port Truck Study**

- The objectives of the study:
  - Improve efficiency of goods movement in Bay Area
  - Reduce Port of Oakland and regional congestion
  - Mitigate impact of truck traffic in neighborhoods
  - Evaluate effectiveness of appointment system
- GPS real time truck movement data for over 300 trucks representing 14 truck companies
- Location coordinates collected every 2 minutes
- Study conducted from 2006 to 2007
- Air District is using GPS data to help design West Oakland truck survey

### GPS Data Used to find High Density Areas



#### West Oakland HRA Results

- Modeling completed
- Risk levels calculated for each source category in the emissions inventory
  - Parts 1, 2 and 3
- Community meeting to be scheduled for March 2008 to present HRA results