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## Diesel & Health Research

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## **Background on Diesel Health Effects**

Diesel engines emit a complex mixture of air pollutants, composed of gaseous and solid material. The visible emissions in diesel exhaust are known as particulate matter or PM. In 1998, California identified diesel exhaust particulate matter (PM) as a toxic air contaminant based on its potential to cause cancer, premature death, and other health problems. Diesel engines also contribute to California's fine particulate matter (PM2.5) air quality problems. Those most vulnerable are children whose lungs are still developing and the elderly who may have other serious health problems. Based on year 2006-2008 emissions in California, diesel PM contributes each year to approximately 2,000 premature deaths, with an uncertainty range of 1,500 to 2,400. In addition, diesel soot causes visibility reduction and is a potent global warmer.

## **Diesel Research Projects**

View all of the lastest reports and ongoing contracts in our Research Projects Database Diesel Results page.

Over 50 research projects funded by ARB have been grouped into the following categories (the below PDF files were created August 2006):

- Exposure (PDF 90 KB)
- Health Effects (PDF 99 KB)
- General PM Exposure and Health Effects (PDF 85 KB)
- Source Testing Methods Development (PDF 100 KB)
- Emissions Inventory (PDF 83 KB)
- Source Apportionment and Receptor Modeling (PDF-94 KB)
- Tunnel Studies (PDF 76 KB)
- Other (PDF 85 KB)

The ARB has been leading several multi-agency research programs to characterize vehicle emissions. Find out more by visiting ARB's Vehicle Emissions Research web page.

## Diesel Related Information and Fact Sheets

- ARB's Truck Stop web site
- Diesel Fact Sheets
- Toxic Air Contaminant Emissions from Diesel-fueled Engines

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For more information about Diesel Related Research, please contact Dr. Linda Smith at (916) 327-8225.