

# Highway Heavy-duty Diesel Operation and Ambient Conditions in the U.S.

9th Off-cycle Emissions Plenary Meeting  
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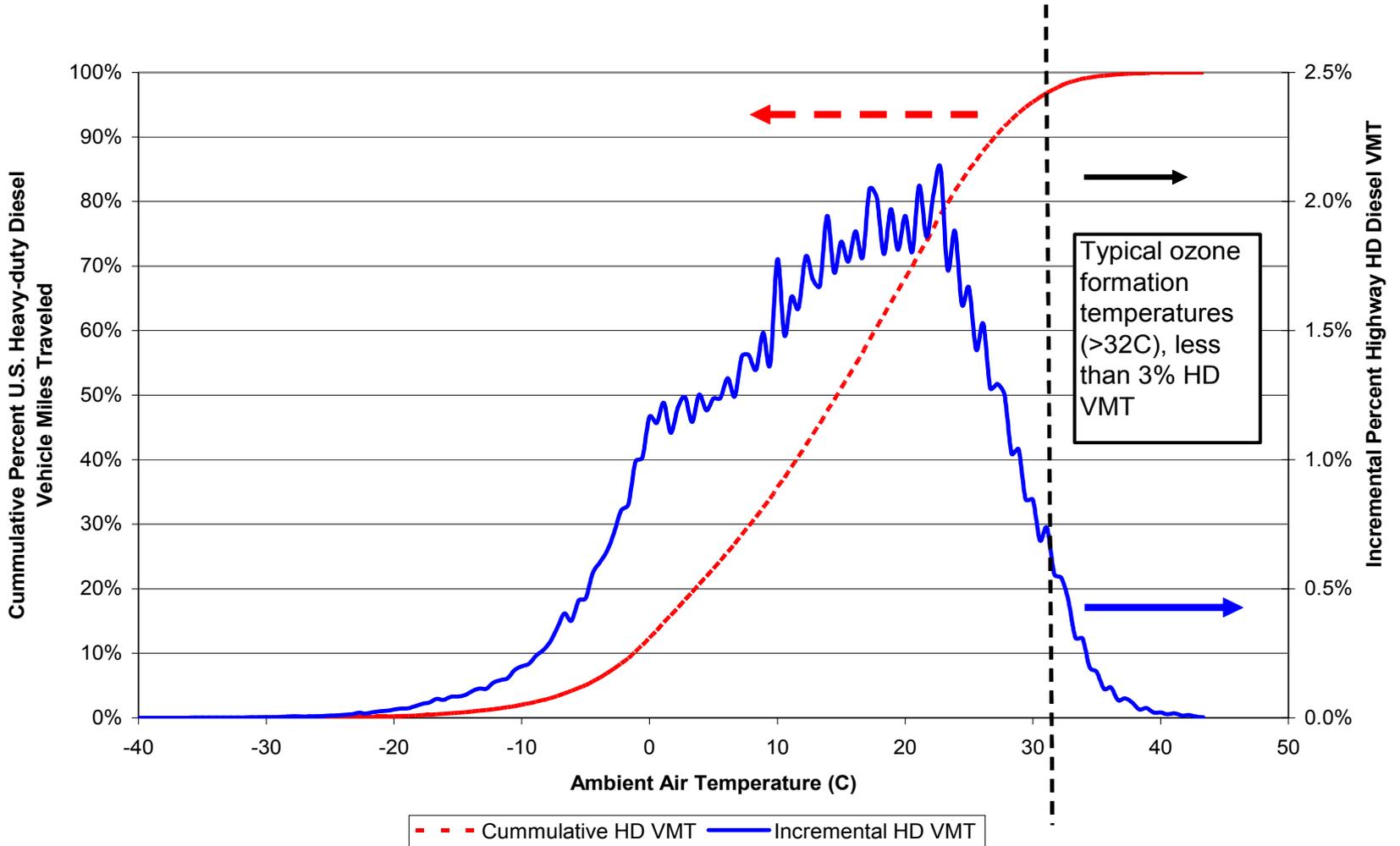
United States Environmental Protection Agency



# Presentation of U.S. Highway HD Diesel Operation Data

- Data and analysis performed by a contractor to several HD engine companies in 2000
  - Air Improvement Resources
- Combined information from;
  - U.S. emissions inventory model
    - HD diesel vehicles vehicle miles traveled (VMT) by county for 48-states
  - U.S. meteorological data from airports
    - 260 airports with hourly temperature data, for 1995-1997
    - Temperature data assigned to each county based on proximity to nearest airports (errors not quantified)
  - Altitude data for each airport
    - Altitude for airports assigned to each county based on proximity to nearest airports (errors not quantified)

# Estimated U.S. Highway Heavy-duty Diesel Vehicle Miles Traveled (VMT) versus Ambient Air Temperature, 1995-1997 average



# Estimated U.S. Highway Heavy-duty Diesel Vehicle Miles Traveled (VMT) versus Altitude

