

# Idling Regulations in Missouri

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DEPARTMENT OF  
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# Presentation Overview

- Impacts of Idling
- Current regulations
- Fuel savings
- Emissions reductions realized
- Idling myths

# Impacts of Idling

- Contributes to negative impacts
  - Health
  - Air Quality
- Usually unnecessary and wastes fuel
  - Wasted fuel = wasted money and wasted resources
  - Idling school busses use an average of 0.5 gallons of fuel per hour
- Excessive engine wear
  - Increased maintenance

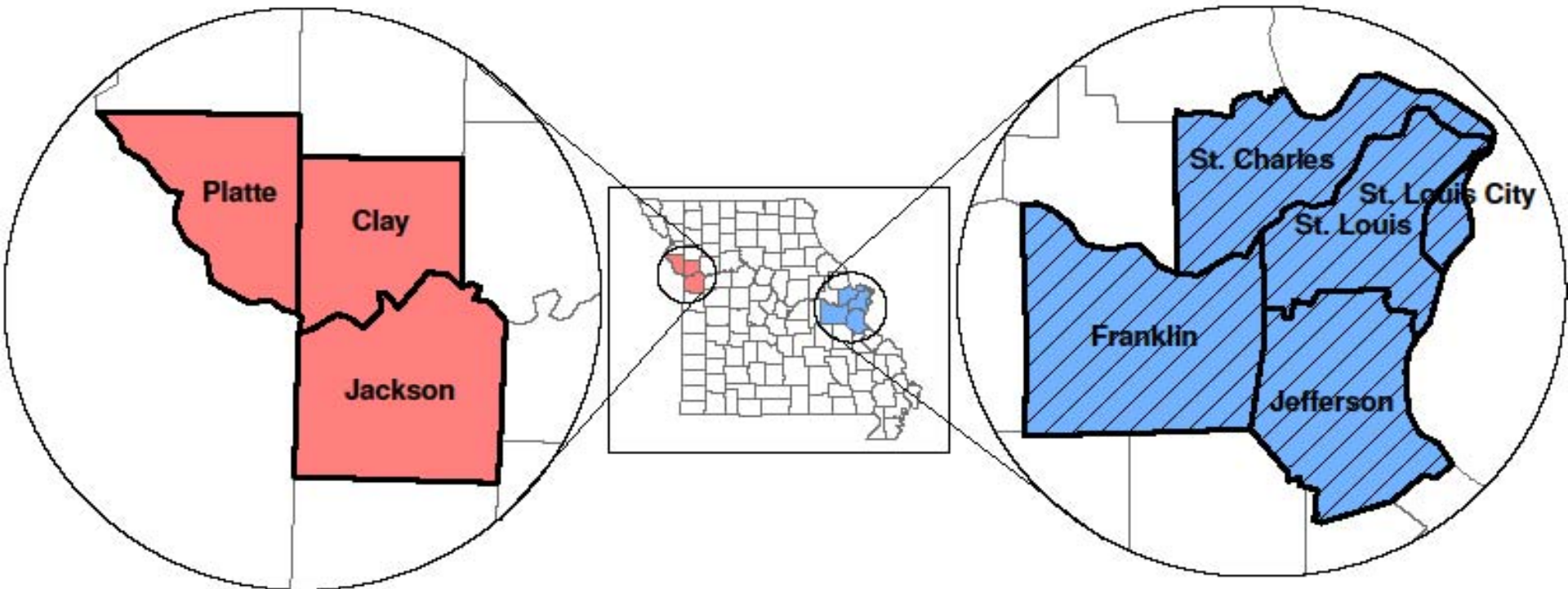
# Current Regulations in Effect

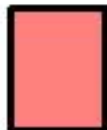

- Affect heavy duty diesel vehicles
  - Over 10,000 Gross Vehicle Weight Rating
  - Powered by a diesel engine
  - Intended for on-road use
- Idle for 5 minutes in any 60 minute period
- Idle for 5 minutes at a passenger load/unload location

# Regulation Exemptions

- Traffic congestion
- Emergencies, health and safety
- 15 min. allowed for passenger buses if needed for passenger comfort
- Other specific exemptions included in rule text
- More information located in your brochure

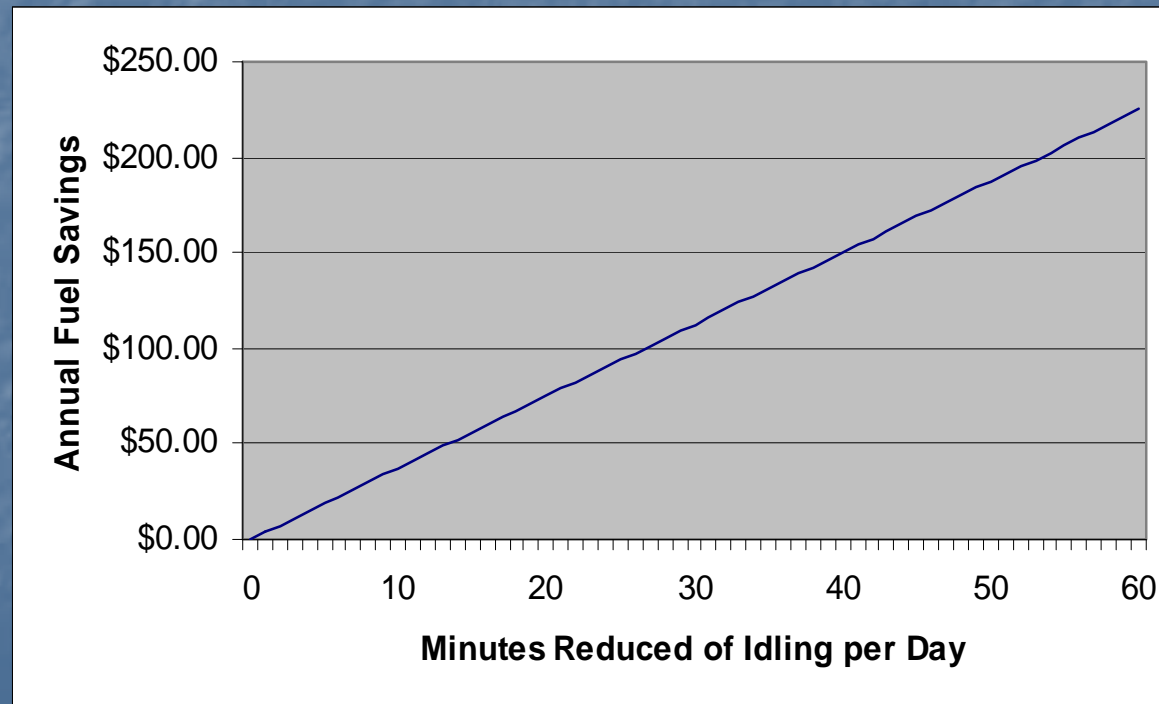
# Areas Impacted by Anti-Idling Regulations



-  10 CSR 10-2.385
-  10 CSR 10-5.385

# Fuel Savings from Reduced Idling

- Assumptions:
  - School year is 180 Days
  - 0.5 gallons of fuel are consumed per hour of idling
  - Diesel Fuel costs \$2.50/gallon
- 30 min. of Idling reduced per day yields \$112.50 in annual fuel savings per bus
- 1 Hour of Idling reduced per day yields \$225 in annual fuel savings per bus



# Environmental Costs of Idling

- Nationwide, each year idling consumes more than 1 billion gallons of diesel fuel
- The combustion of this fuel generates
  - 11 million tons of CO<sub>2</sub>
  - 200,000 tons of NO<sub>x</sub>
  - 5,000 tons of PM

(<http://www.epa.gov/otaq/smartway/index.htm>)

# Idling Myths versus Facts

- **Myth:** Idling is not cost effective because it consumes more fuel to start a diesel engine than it does to let it idle.
- **Fact:** Idling for more than 10 seconds uses more fuel than restarting the engine.
- **Myth:** Diesel engines need to be warmed up, requiring long idle periods, especially in cold weather
- **Fact:** Today's truck and engine manufacturers' often recommend 5 minutes of warm up time or less

# More Idling Myths versus Facts

- Myth: It is better for the engine to run at low idling speeds than regular speeds
- **Fact:** Running the engine for extended periods of time at low speed (idling) causes more wear on internal parts than running the engine at normal driving speeds.
- *If an engine is idled for one hour per day for a year, it's equivalent to 64,000 miles of engine wear (American Trucking Association study)*

# More Idling Myths versus Facts

- Myth: Idling does not pollute as much as driving down the road.
- **Fact:** When idling an engine, the fuel is not fully combusted, therefore, it releases even more emissions than it would for a truck running at highway speeds
  - Up to twice the amount of emissions compared to highway speed
  - Leaves soot and other deposits in the engine

# In Conclusion

## Idling:

- Creates unhealthy air pollution
- Negatively impacts childrens' health
- Wastes fuel and money
- Is unnecessary and not recommended for today's diesel engines.

# Questions/Comments?

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