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**ESTIMATION OF FUEL CONSUMPTION & CO2 EMISSIONS -**

**LIGHT-DUTY VEHICLE IDLING AT SCHOOLS - CALIFORNIA**

Number of schools, California: [10,473](https://www.cde.ca.gov/ds/sd/cb/ceffingertipfacts.asp)

Number of days in school year: 175

Average light-duty vehicle idling fuel consumption per hour: 0.375 gallons\*

PER SCHOOL

Estimated average number of vehicles at school drop-off, daily: 50-100

Estimated number of vehicles idling at drop-off, daily: 75% = 37 to 75 vehicles idling

Estimated time of drop-off idling per vehicle: 1 minute

Estimated fuel consumed during drop-off, 175 days: 41 to 82 gallons

Estimated CO2 emissions idling vehicles drop-off, 175 days: 820 to 1,641 lbs.

PER SCHOOL

Estimated average number of vehicles at school pick-up (dismissal), daily: 50 to 100

Estimated number of vehicles idling at pick-up, daily: 60% = 30 to 60 vehicles idling

Estimated time of pick-up idling per vehicle, daily: 15 minutes

Estimated fuel consumed during pick-up, 175 days: 492 to 984 gallons

Estimated CO2 emissions idling vehicles pick-up, 175 days: 9,844 to 19,688 lbs.

PER SCHOOL

Total fuel consumed, 175 days: 533 to 1,066 gallons

Total CO2 emissions, 175 days: 5.33 to 10.66 tons

**10,473 SCHOOLS**

**Total fuel consumed, 175 days: 5,582,109 to 11,164,218 gallons**

**Total CO2 emissions, 175 days: 55,844 to 111,689 tons**

\*based on average range of light-duty vehicle engine liter sizes of compact vehicles (from 2 liters) to pickup trucks (up to 5 liters)

NOTE: estimates of number of vehicles at schools, number of vehicles idling at schools, and amount of time spent during drop-off and pick-up (dismissal) are rough, based on Idle-Free California limited studies of passenger vehicle idling at schools.