

Draft SB 339 Pilot Road Charge Rate

California Transportation Commission

1. Number of Registered Vehicles

2. Annual Vehicle Miles Travelled (VMT)

DMV Speechmaker Card No. 7

TOP 10 DMV FACTS

(As of January 1, 2021)

1. Licensed Drivers:	26,869,525
Including Teen Drivers (16-19 years old):	733,970
2. Identification (ID) Cards:	6,640,024
3. Registered Vehicles:	35,820,417
Including registered Motorcycles:	864,494
4. Registered Special Interest Plates:	1,043,950
5. Registered Off Highway Vehicles:	
6. Disabled Placards:	
7. Registered Hybrid/Electric Vehicles:	
Hybrid Vehicles:	
Electric Vehicles:	
8. Licensed Auto Dealers in California:	
New Vehicle Dealers:	
Used Vehicle Dealers:	

Table - 5. Changes on August

Region And State	Number of Stations	Vehicle-Miles (Millions)	
		2021 (Preliminary)	2020
		California	157

NON-ZEV POPULATION

Total Light-Duty Vehicles end of 2020

28,030,332

Bio Diesel	Diesel	Flex Fuel	Gasoline	Gasoline Hybrid	Natural Gas	Propane
0.470%	1.973%	3.993%	87.286%	4.031%	0.027%	0.003%
134,834	565,532	1,144,536	25,021,380	1,155,477	7,676	897

Light-Duty



&

Med/Heavy-Duty

(weigh > 10,000 pounds)



Need Different Rates for:

- Light-duty vehicles
- Medium and Heavy-Duty Vehicles

Data Sources:

- Federal Highway Administration (FHWA)
- Department of Motor Vehicles (DMV)
- California Energy Commission (CEC)
- California Department of Transportation (Caltrans)



Revenues Needed

Light-Duty Vehicles:

- Gasoline Excise
- Road Improvement Fee
- Admin Fee

Medium/Heavy-Duty Vehicles:

- Diesel Excise
- Admin Fee

Convert to 2022 Value

Estimating the Admin Fee

- Ratio of expenditure to revenues (expenditures / revenues) -

- Board of Equalization
- California Department of Tax and Fee Administration
- Vehicle License Fee fund administrative costs
- Oregon administrative fees

Rate

$$\text{Revenue} / \text{Total Annual VMT} = \text{Rate per Mile}$$

(\$)

(miles)

(\$/mile)

This is an example for reference only

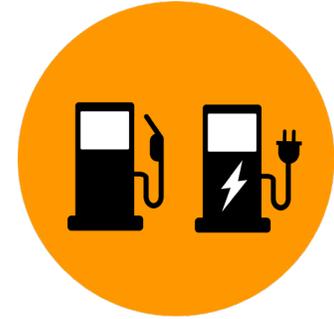
These Numbers Are NOT FINAL and are Subject to Change as this is a Working Document

FY 2019-20 (Light duty vehicles)

Revenue (\$)	\$7,752,981,287
Registered vehicles	27,505,696
Total VMT (miles)	314,747,186,049
Average VMT (miles/year)	11,443
Rate (\$/mile)	\$ 0.02463
Average payment per registered vehicle (\$/year)	\$ 282

Example

EPA MPG light-duty-examples



This example does not include most administrative costs. However the administrative costs for the 'per-mile' rate and the 'EPA' rate should be the same. In the 'per-mile' rate, administrative costs are assumed to be 7%.

Brand	MPG	Average miles	Gas tax payment
Toyota 2017	30.5 mpg	11,443	\$191.94
Ford 2006	21.5 mpg		\$271.57

At **MPG= 20.74**: gas tax = Road charge payment
If MPG < 20.74 : gas tax > Road charge payment

Similar to Caltrans' \$0.02, \$0.03, and \$0.04 rates

This is an example of the tool, not the actual rate

- Miles per Gallon (MPG) and estimated VMT impacts estimated payment per registered vehicle.

Caltrans' estimated tool

Example rate of a vehicle made in 2017
(37 MPG)

1 MILEAGE

How many miles do you drive per month?*

2 VEHICLE

I know my vehicle's MPG

Find my vehicle's MPG

3 HOW MUCH YOU PAY**

Rates are hypothetical and would be set by the California Legislature.

The gas tax rate is based on changes effective July 1, 2021.

EPA Fuel Economy

If the road charge per-mile rate is:

\$.02 \$.03 \$.04

Total Monthly Road Charge (at \$0.03 per mile)

\$28.59

Total Monthly State Fuel Tax (at \$0.511 per gallon)

\$13.16

**Does not include any federal or local taxes.

Example rate of a vehicle made in 2006
(24 MPG)

1 MILEAGE

How many miles do you drive per month?*

2 VEHICLE

I know my vehicle's MPG

Find my vehicle's MPG

3 HOW MUCH YOU PAY**

Rates are hypothetical and would be set by the California Legislature.

The gas tax rate is based on changes effective July 1, 2021.

EPA Fuel Economy

If the road charge per-mile rate is:

\$.02 \$.03 \$.04

Total Monthly Road Charge (at \$0.03 per mile)

\$28.59

Total Monthly State Fuel Tax (at \$0.511 per gallon)

\$20.29

**Does not include any federal or local taxes.

These are examples of tool only, not the actual rate

Our proposed rate \$0.0246/mile (note: this is not final)

At MPG= 20.74: gas tax = Road charge payment

If MPG <20.74: gas tax > Road charge payment

We also have the similar estimated results with Caltrans' estimated tool

If Rate = \$0.0246/ mile **and** MPG = 20.74

	Caltrans' estimated tool	Our estimation
Monthly Road Charge	\$ 23.44	\$ 23.49
Monthly Fuel tax	\$ 23.19 - \$24.35	\$ 23.49

This Fuel tax from this MPG example does not include any estimate of road charge administrative costs

Next steps

1. Coordinate with Caltrans and take into account their feedback.
2. Finalize the rate to be included in the pilot recommendations.

Questions?

Thank You

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