

# Electric Vehicles Analysis Using Tableau

Electric vehicle (EV) data provides valuable insights into the adoption and distribution of electric vehicles across different regions. By analyzing this data, we can better understand trends in EV usage, the effectiveness of clean energy incentives, and the impact on local infrastructure.



The table Electric Vehicles Analysis is a .CSV file and has the following columns, details of which are as follows:

- **VIN (1-10):** The first 10 characters of the Vehicle Identification Number (VIN), a unique identifier for each vehicle.
- **County:** The county in which the vehicle is registered.
- **City:** The city in which the vehicle is registered.
- **State:** The state in which the vehicle is registered (all entries are "WA" for Washington).
- **Postal Code:** The postal code of the vehicle's registration location.
- **Model Year:** The year the vehicle model was manufactured.
- **Make:** The manufacturer or brand of the vehicle.
- **Model:** The specific model of the vehicle.
- **Electric Vehicle Type:** The type of electric vehicle (e.g., Battery Electric Vehicle (BEV), Plug-in Hybrid Electric Vehicle (PHEV)).
- **Clean Alternative Fuel Vehicle (CAFV) Eligibility:** Indicates whether the vehicle is eligible for Clean Alternative Fuel Vehicle incentives, with reasons for ineligibility provided if applicable.
- **Electric Range:** The electric range of the vehicle in miles.
- **Base MSRP:** The Manufacturer's Suggested Retail Price (MSRP) of the vehicle.
- **Legislative District:** The legislative district where the vehicle is registered.
- **DOL Vehicle ID:** A unique identifier assigned by the Department of Licensing (DOL).
- **Vehicle Location (Lat/Long):** The latitude and longitude coordinates of the vehicle's registration location.
- **Electric Utility:** The electric utility provider for the location where the vehicle is registered.
- **2020 Census Tract:** The 2020 Census Tract identifier for the vehicle's registration location.

These columns provide detailed information about each registered electric vehicle, which can be used for various analyses, such as examining the distribution of electric vehicles by location, manufacturer, or eligibility for incentives.



Total BEV Vehicles

Model Year

19972024

Total BEV Vehicles

1,16,807

% of Total: 77.62%

Total PHEV Vehicles

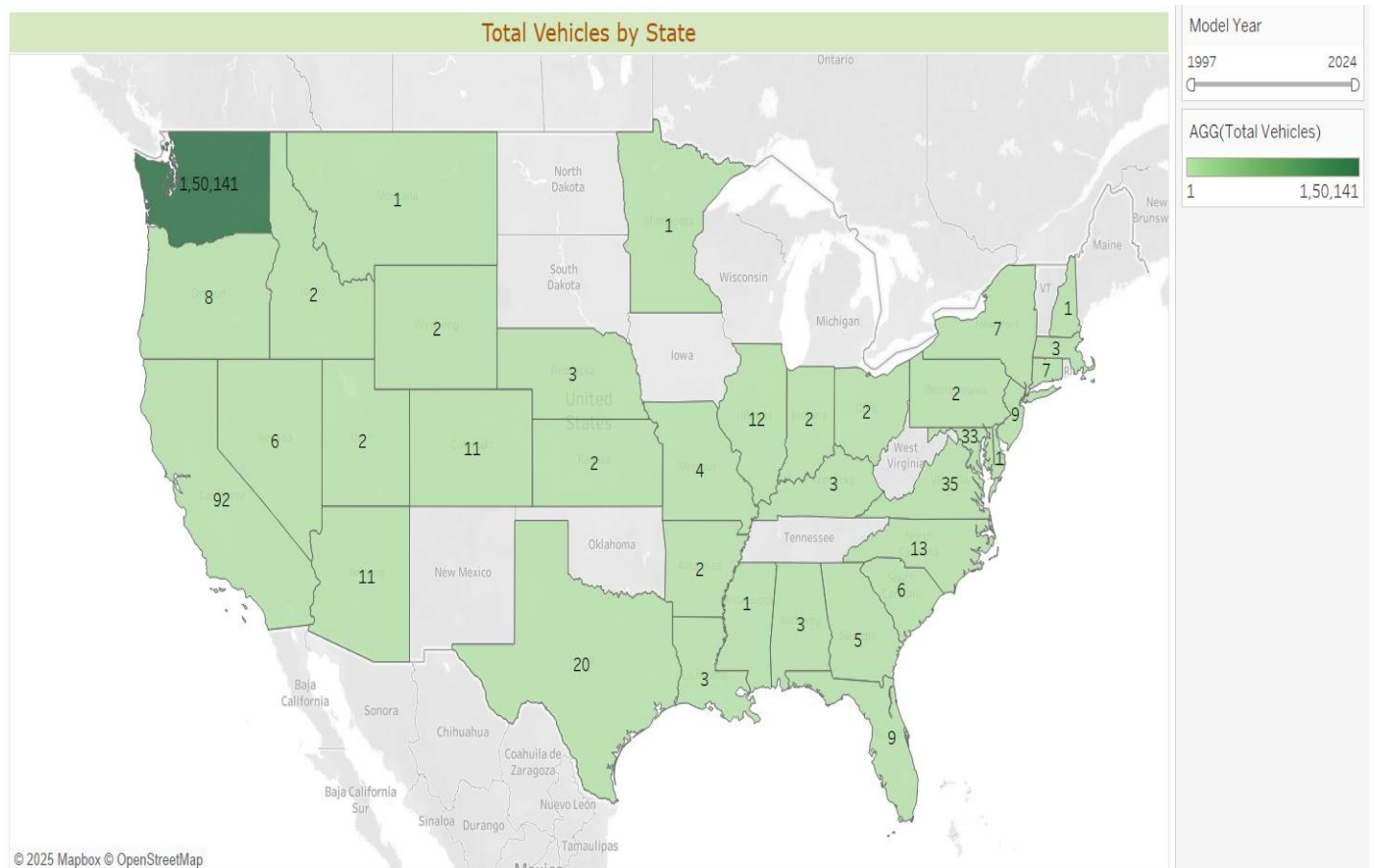
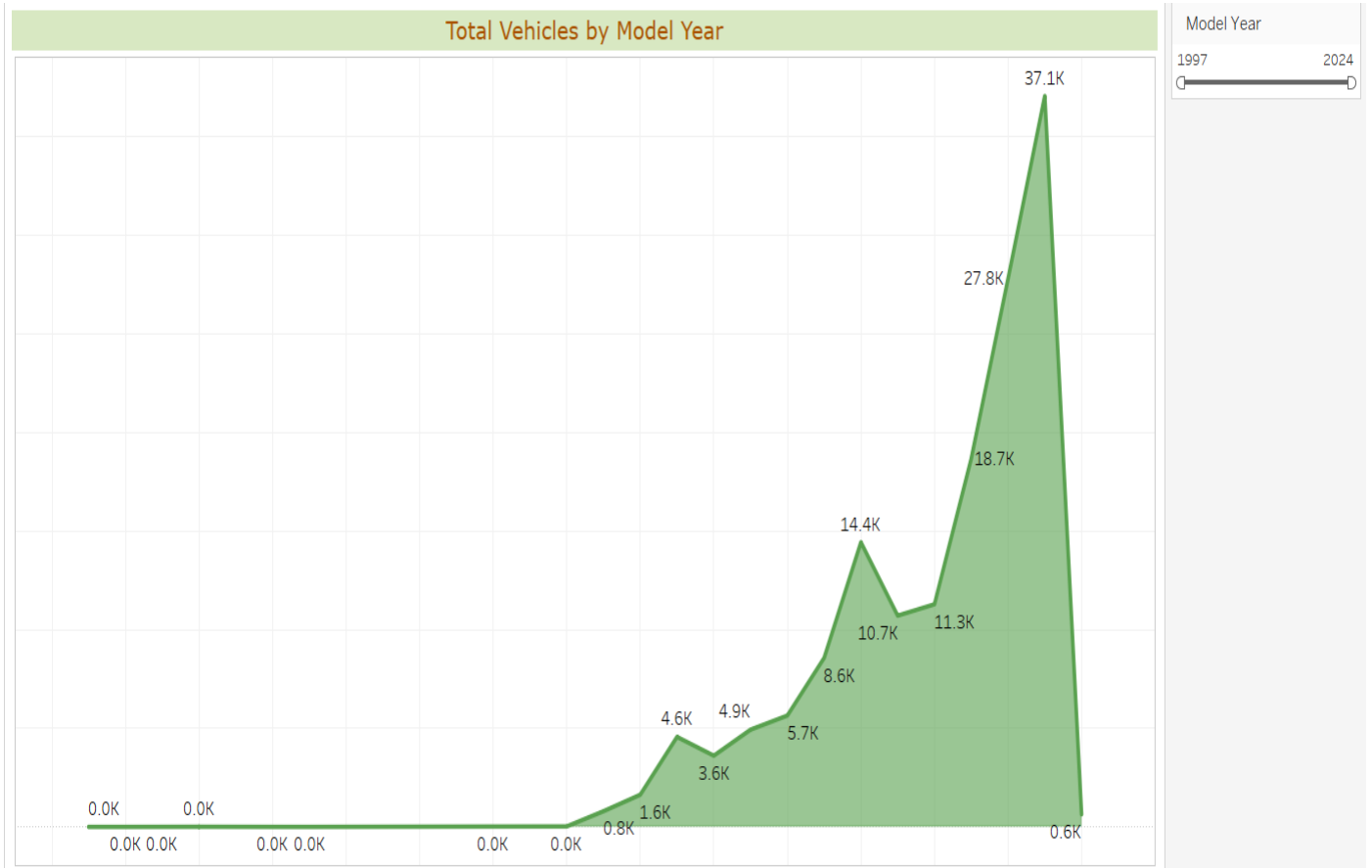
Model Year

19972024

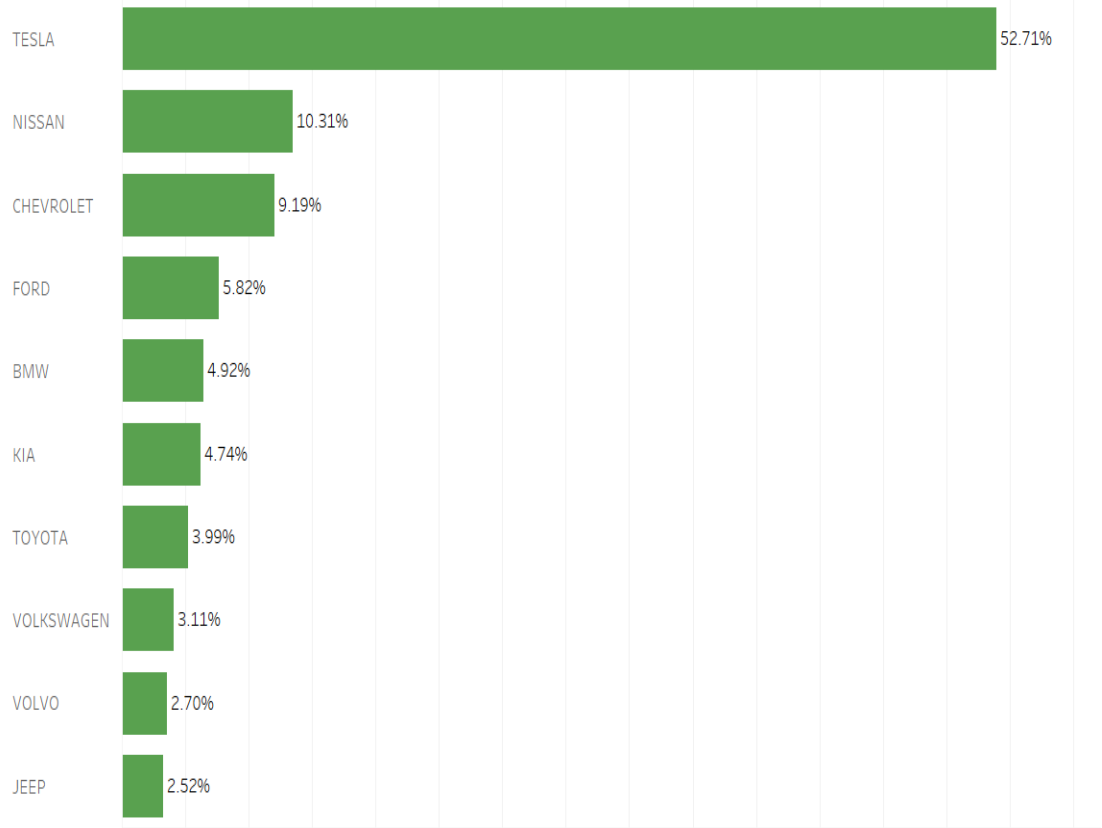
Total PHEV Vehicles

33,675

% of Total: 22.38%



Top 10 Vehicles by Make



Model Year

1997 2024

EV Type

(All)

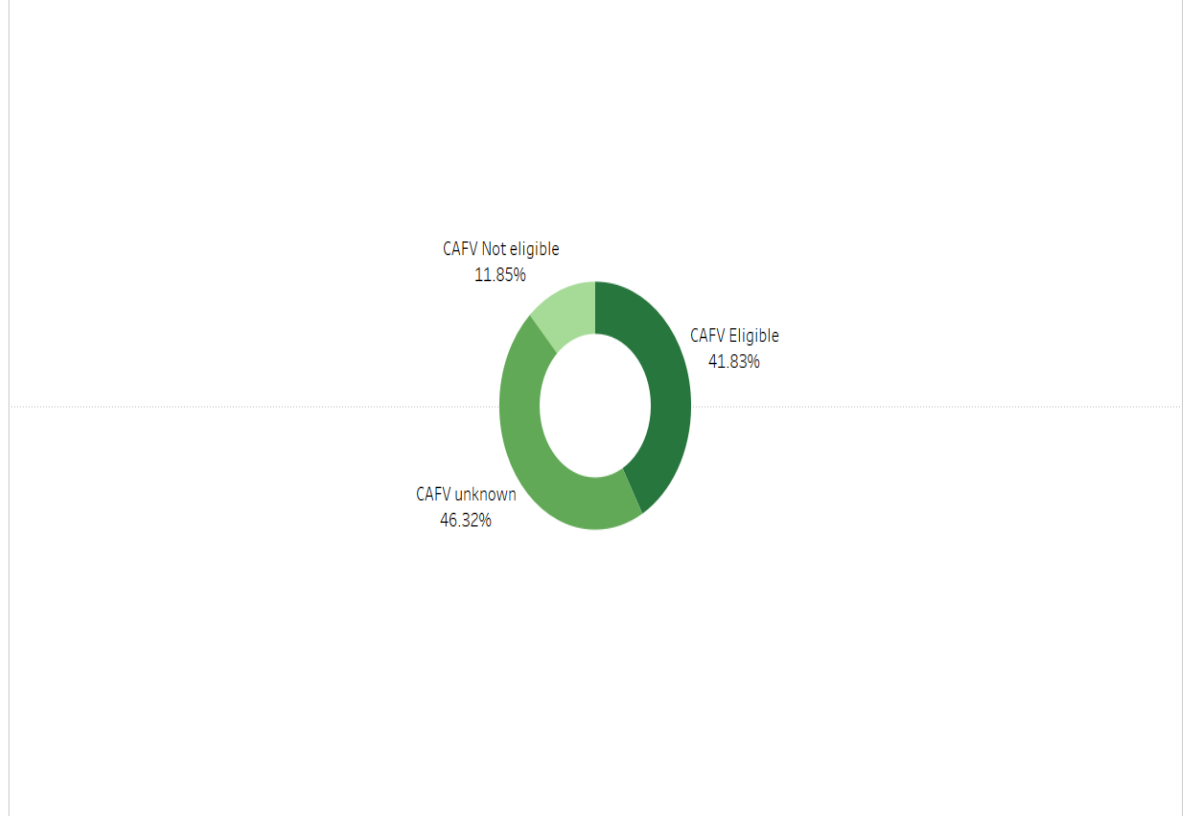
State

(All)

Top N

10

Total Vehicles by CAFV Eligibility



Model Year

1997 2024

Clean Alternative Fuel V...

CAFV Eligible

CAFV unknown

CAFV Not eligible

