Euro 5 Cars Emissions Traded On UK Market 2009-2015

Summary

This dataset contains car emissions and estimated data about new cars (other than vans, 4x4s and pickups) available for sale in the UK market from EU Emission Standard Euro 5 from 2009 to 2015. The estimated data for emissions, consumption and cost of fuel are presented along with car identification data, as well as data on fuel type, engine capacity and transmission type.

Key Facts

Date Created	2015-08
Date Modified	2015-08
Version	2015-08
Update Frequency	Never
Complexity	Simple
Temporal Coverage	2009-2015
Spatial Coverage	United Kingdom
Source	Vehicle Certification Agency, UK
Source License URL	[http//www.nationalarchives.gov.uk/doc/open-government-licence/version/3/]("Hyperlink")
Source License Requirements	N/A
Source Citation	N/A
Keywords	UK Car Emissions, Car CO2 Emissions, Car CO Emissions, Car Pollution, Fuel Cars Consumtion, Electric Cars Consmuption, Hybrid Cars Consumption, Euro 5 Cars, Cars For Sale UK

Other Titles and Uses

- UK Market Euro 5 Cars Pollution

- Euro 5 Cars By Manufacturer and Model Emissions

- Cars Level Of Emissions in UK

Description

The source of data is UK Vehicle Certification Agency, of the United Kingdom Department for Transport and the United Kingdom's national approval authority for new road vehicles, agricultural tractors and off-road vehicles.

This dataset contains cleaned and organized data about the following car emissions: CO2, CO, hydrocarbons, oxides of nitrogen, particulate matter and external noise. In the same time it contains data about fuel and/or electricity consumption and the cost associated. According to UK Vehicle Certification Agency the majority of new Euro 5 cars traded on UK market, starting with each of the year of the period 2009-2015, are described in this dataset. The variables values are obtained from official tests, which are required before a model of car may be offered for sale. The values are listed for most new petrol and diesel cars on sale in the UK as well as for some cars powered by alternative fuels (Liquefied Petroleum Gas or Compressed Natural Gas). Values are also listed for some hybrid vehicles, which use both electric motors and internal combustion engines, and for pure electric cars.

The fuel related data are those published by the Department of Energy and Climate Change for March, and appear on the 'efficiency labels' that can be seen in car showrooms. The fuel cost is given for comparison purposes, for any given vehicle it will depend on the actual fuel consumption achieved and the price you pay for fuel. Because fuel cost was measured at 6000 or 12000 miles, to have a unique measure and keep the estimation as precise as possible the fuel cost estimated at 12000 miles was halved.

Missing data is represented in the dataset by 0 length string (empty cells). The raw data was collected in a controlled environment and represents estimates of above-mentioned pollutants levels.

This dataset doesn't include data about vans, 4x4s or pickups.

Schema

Field Name	Type	Description	Properties
Years_Released	Date	The year UK Vehicle Certification Agency released the report about emissions from new cars traded on UK Market	Required; Format: Date
Car_Manufacturer	String	The official car name manufacturer or importer	Required
Car_Model	String	The official brand under which a car manufacturer or importer is selling a specific type of car	
Car_Description	String	Specific characteristics of a car or cars belonging to a model sold by a car manufacturer or importer	
Car_Transmission_Type	String	The abbreviate description for a car model transmission types or types	
Car_Engine_Capacity_In_Cubic_Centimeters	Integer	A car model engine capacity or capacities in cubic centimeters(cc)	Level: Ratio

Field Name	Type	Description	Properties
Car_Fuel_Type	String	The type of fuel or fuels a car model with specific characteristics is using	
Urban_Fuel_Consumption_In_Metric_Units	Number	The urban fuel consumption in liters per 100 kilometers, at an ambient temperature of 20-30 Celsius degrees	Level: Ratio
Extra_Urban_Fuel_Consumption_In_Metric_Units	Number	The extra-urban fuel consumption in liters per 100 kilometers, at an ambient temperature of 20-30 Celsius degrees	Level: Ratio
Combined_Fuel_Consumption_In_Metric_Units	Number	The urban and extra-urban combined fuel consumption in liters per 100 kilometers, at an ambient temperature of 20-30 Celsius degrees	Level: Ratio
Urban_Fuel_Consumption_In_Imperial_Units	Number	The urban fuel consumption in miles per imperial gallon, at an ambient temperature of 20-30 Celsius degrees	Level: Ratio

Field Name	Type	Description	Properties
Extra_Urban_Fuel_Consumption_In_Imperial_Units	Number	The extra-urban fuel consumption in miles per imperial gallon, at an ambient temperature of 20-30 Celsius degrees	Level: Ratio
Combined_Urban_Fuel_Consumption_In_Imperial_Units	Number	The urban and extra-urban combined fuel consumption in miles per imperial gallon, at an ambient temperature of 20-30 Celsius degrees	Level: Ratio
Fuel_Cost_Per_6000_Miles	Number	The estimated fuel cost in pounds at 6,000 miles or halved from cost at 12,000 miles	Level: Ratio
Electric_Energy_Consumption_Miles_Per_KWh	Number	Electricity consumption miles per kilowatt-hour	Level: Ratio
Wh_Per_Km	Number	Electricity consumption watt-hour per kilometre	Level: Ratio
Maximum_Range_Km	Number	The maximum number of kilometres a car can run using electrical power	Level: Ratio

Field Name	Type	Description	Properties
Maximum_Range_Miles	Number	The maximum number of miles a car can run using electrical power	Level: Ratio
Electricity_Cost	Number	The estimated electricity cost in pounds	Level: Ratio
Total_Cost	Number	Ratio	
Level_Of_External_Noise_Emitted_In_Decibels	Number	The estimated level of external noise in decibels, measured on the A scale (so it is more closely represented what is heard by the human ear), emitted by a car model with specific characteristics	Level: Ratio
CO2_Emissions_In_Grams_Per_Km	Integer	The estimated level of CO2 emissions, in grams per kilometer, released by a car model with specific characteristics	Level: Ratio
CO_Emmisions_In_Milligrams_Per_Km	Number	The estimated level of CO emissions, in milligrams per kilometer, released by a car model with specific characteristics	Level: Ratio

Field Name	Type	Description	Properties
THC_Emissions_In_Milligrams_Per_Km	Number	The estimated level of hydrocarbons emissions, in milligrams per kilometer, released by a car model with specific characteristics	Level: Ratio
NOx_Emissions_In_Milligrams_Per_Km	Number	The estimated level of oxides of nitrogen (nitrogen dioxide - NO2 and nitric oxide - NO) emissions, in milligrams per kilometer, released by a car model with specific characteristics	Level: Ratio
THC_And_NOx_Emissions_In_Milligrams_Per_Km	Number	The estimated cumulative level of hydrocarbons and oxides of nitrogen (nitrogen dioxide - NO2 and nitric oxide - NO) emissions, in milligrams per kilometer, released by a car model with specific characteristics	Level: Ratio

Field Name	Type	Description	Properties
Particulate_Matter_In_Milligrams_Per_Km	Number	The estimated level of particulate matter emissions, in milligrams per kilometer, released by a car model with specific characteristics	Level: Ratio

Sample Records

Field Name	Sample 1	Sample 2	Sample 3
Years Released	2015	2014	2015
Car Manufacturer	PEUGEOT	PEUGEOT	RENAULT
Car Model	iOn	iOn	Zoe
Car Description	iOn	iOn	Zoe
Car Transmission Type			
Car Engine Capacity In Cubic Centimeters			
Car Fuel Type	Electricity	Electricity	Electricity
Urban Fuel Consumption In Metric Units			
Extra Urban Fuel Consumption In Metric Units			
Combined Fuel Consumption In Metric Units			
Urban Fuel Consumption In Imperial Units			
Extra Urban Fuel Consumption In Imperial Units			

Field Name	Sample 1	Sample 2	Sample 3
Combined Urban Fuel Consumption In Imperial Units			
Fuel Cost Per 6000 Miles			
Electric Energy Consumption Miles Per KWh	4.9	4.9	4.3
Wh Per Km	126	126	146
Maximum Range Km	150	150	210
Maximum Range Miles	93	93	130
Electricity Cost	172.5	177.5	196.5
Total Cost	172.5	177.5	196.5
Level Of External Noise Emitted In Decibels	66.0	66.0	70.2
CO2 Emissions In Grams Per Km			
CO Emmisions In Milligrams Per Km			
THC Emissions In Milligrams Per Km			
NOx Emissions In Milligrams Per Km			
THC And NOx Emissions In Milligrams Per Km			
Particulate Matter In Milligrams Per Km			