

# Characteristics of road vehicles

## Year 2020 \*

**Tiranë, 20 December 2020:** In publication "Characteristics of road vehicles", refer to the number of road vehicles circulating in the Republic of Albania registered with the status "active" or "temporarily deregistered" in the Albanian National Register of road vehicles. In 2020, the total number of road vehicles with the status of "Active" and "Temporarily deregistered" is 676,811 vehicles, from 628,937 vehicles register till 2019, increasing by 7.6 %.

### Road vehicles by type

Road vehicles according to the type that occupy the largest percentage of the total number of road vehicles are "Passenger cars" (79.7%), "Mixed transport vehicles" (6.9%) and "Motor vehicles" (5.0%), (Tab.1).

**Tab. 1 Road vehicles by type, 2019-2020**

Type	2019	2020	2020/2019 %
<b>Total</b>	<b>628,937</b>	<b>676,811</b>	<b>7.6</b>
Passenger cars	499,779	539,497	7.9
Mixed transport vehicles	44,679	46,844	4.8
Motor vehicles	30,470	33,899	11.3
Truck	13,538	13,819	2.1
Buses	7,493	7,627	1.8
Special transport vehicles	6,435	6,860	6.6
Cyclomotor	6,590	6,661	1.1
Semi-trailer	6,137	6,361	3.6
Towing vehicles	4,504	4,763	5.8
Special purpose vehicles	3,554	3,755	5.7
Agricultural vehicles	1,293	1,743	34.8
Trailer for freight transport	1,705	1,527	-10.4
Technological vehicles	786	874	11.2
Three-wheeler	825	819	-0.7
Trailer for special transport	559	598	7.0
Other Category	590	1,164	97.3

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

Number of passenger cars till 2020, increased by 7.9 % compared with 2019, followed by Mixed transport vehicles which has increased by 4.8 % compared to 2019.

### Road vehicles by prefecture

The highest number of road vehicles in 2020 are registered in prefecture of Tirana, accounting 36.8 % of the total road vehicles registered in country.

**Tab.2 Road vehicles by prefecture, 2020**

Prefecture	Road vehic	Passenger cars	Bus	Truck
<b>Albania</b>	676,811	539,497	7,627	13,819
Berat	26,396	18,867	315	705
Durrës	88,360	72,060	903	1,573
Elbasan	44,466	34,903	556	1,020
Fier	62,523	48,949	609	1,395
Gjirokastrër	15,841	12,203	228	606
Korçë	32,850	25,899	421	893
Kukës	14,405	12,336	162	412
Laç	32,341	26,726	334	710
Peshkopi	16,857	14,140	273	502
Shkodër	47,502	37,854	507	818
Tiranë	249,396	199,196	2,727	4,370
Vlorë	45,874	36,364	592	815

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

The prefecture with the lowest number of road vehicles is Kukës accounting 2.1 % of the total road vehicles.

### Road vehicles by gearbox

"Manual" gearbox cars occupy the largest share of total vehicles resulting in "active" or "temporarily deregistered" status accounting 64.9% in 2020.

**Tab.3 Road vehicles by gearbox, 2020**

Type of gearbox	Passenger cars	Bus	Truck
Manual	350,191	6,307	13,099
Automatic	183,624	1,209	525
Semi-Automatic	4,897	89	95
Unspecified	785	22	100

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

### Road vehicles by year of production

The number of vehicles registered until December 2020 with year of production “before 2000”, has decreased by 1.4 % while the group of vehicles with year of production “2011-2020” has increased by 27.3%.

**Tab. 4 Passenger cars by year of production, 2019-2020**

Year of production	2019	2020	2020/2019 %
<2000	140,952	138,979	-1.4
2000-2010	321,808	353,380	9.8
2011-2020	37,019	47,138	27.3

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

At a more detailed level, until December 2020, vehicles aged 11-20 years constitute 57.7% of the total number of vehicles with "active" or "temporarily deregistered" status.

**Tab. 5 Road vehicles by age, 2020**

Age	Passenger cars	Bus	Truck
0-2 years	4,077	14	63
3-5 years	11,595	84	116
6-10 years	31,466	299	310
11-20 years	311,525	3,469	3,251

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

### Road vehicles by brand

Among the main brands of passenger cars circulating in the country, dominate the Mercedes Benz brand (18.2%), followed by Volkswagen (17.0%) and Daimler Chrysler (12.1%).

**Tab.6 Road vehicles by brand, 2020**

Brand	Passenger cars	Brand	Bus	Brand	Truck
MERCEDES BENZ	98,197	MERCEDES BENZ	3,334	MERCEDES BENZ	7,179
VOLKSWAGEN	91,736	DAIMLER CHRYSLER	626	MAN	1,405
DAIMLER CHRYSLER	65,039	FORD	436	DAIMLER CHRYSLER	918
FORD	53,597	IVECO FIAT	396	IVECO FIAT	774
OPEL	29,805	MAN	287	IVECO MAGIRUS	608
AUDI	27,949	RENAULT	278	VOLVO	510
FIAT	21,720	SETRA	214	DAIMLER BENZ	497
TOYOTA	21,646	VOLKSWAGEN	205	SCANIA	305
BMW	17,802	IVECO	204	DAF	284
RENAULT	15,963	SCANIA	167	RENAULT	254
OTHERS	96,043	OTHERS	1,480	OTHERS	1,085

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

Until December 2020, the brand "Mercedes Benz" is registered as the most used car brand registered with the year of production before 2000 and the years 2011-2020. The Volkswagen brand is registered as the most widespread car brand with a production year of 2000-2010.

**Tab.7 Passenger cars by brand and year of production, 2020**

<2000	%	2000-2010	%	2011-2020	%
MERCEDES BENZ	35.1	VOLKSWAGEN	17.1	MERCEDES BENZ	20.2
VOLKSWAGEN	17.6	DAIMLER CHRYSLER	15.5	VOLKSWAGEN	14.8
FORD	7.5	MERCEDES BENZ	11.3	AUDI	7.7
OPEL	5.7	FORD	11.3	FORD	7.2
DAIMLER CHRYSLER	4.3	OPEL	5.8	HYUNDAI	6.8
AUDI	4.0	AUDI	5.3	SKODA	5.7
FIAT	3.8	TOYOTA	5.1	BMW	4.8
RENAULT	3.1	FIAT	4.2	LAND ROVER	4.5
DAIMLER BENZ	2.8	BMW	3.5	TOYOTA	3.4
BMW	2.3	RENAULT	3.1	FIAT	3.4
OTHERS	13.8	OTHERS	17.9	OTHERS	21.5

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

### Passenger cars by fuel

The largest number of vehicles circulating in our country until 2020, use the fuel "Diesel" occupying 73.5% from 73.3 % until 2019, followed by vehicles that use the fuel "Petrol" with 18,2 % to the total number of vehicles from 19.4 % that this group occupied until 2019.

The number of vehicles that use the fuel "Diesel" in 2020, has increased by 8.3% compared to 2019. The number of vehicles that use the fuel "Petrol" has increased by 1.4% compared to 2019.

**Tab. 8 Passenger cars by fuel, 2019 - 2020**

Indicator	Passenger cars 2019	Passenger cars 2020	2020/2019 %
Diesel	366,470	396,790	8.3
Petrol	97,003	98,380	1.4
Petrol + Gas	35,630	43,022	20.7
Petrol + Electric	373	552	48.0
Electric	123	362	194.3
Gas	85	219	157.6
Diesel + Electric	49	95	93.9
Other hybrid	46	77	67.4

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

The number of registered buses until 2020, which have used the fuel "Oil" has increased by 1.8% compared to 2019.

**Tab.9 Buses by source of energy, 2019 - 2020**

Source of energy	Buses 2019	Buses 2020	2020/2019 %
<b>Total buses</b>	<b>7,493</b>	<b>7,627</b>	<b>1.8</b>
Diesel	7,470	7,602	1.8
Petrol	5	6	20.0
Petrol + Gas	7	8	14.3
Gas	11	11	0

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

### Passenger cars by engine size

The number of vehicles registered in 2020 according to engine volume  $\leq$  2,000 cc has increased by 8.6% compared to 2019.

**Tab.10 Passenger cars by engine size, 2019 – 2020**

Engine size	2019	2020	2020/2019 %
<2000	333,740	362,547	8.6
2001-3000	152,929	163,248	6.7
>3000	13,110	13,702	4.5

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

The most widespread volume in "Gasoline" vehicles is below 1,399cc, accounting for 52.3% of total vehicles. The most widespread volume in "Diesel" vehicles is 1.400cc-1.999cc, occupying 53.3%.

**Tab.11 Passenger cars by energy source and engine size, 2020**

Engine size	Passenger cars using Petrol	Passenger cars using Diesel
<b>Total Passenger cars</b>	<b>142,026</b>	<b>396,890</b>
>1.399cc	74,217	24,953
1.400cc-1.999cc	49,696	211,455
>2.000cc	18,113	160,482

**Source:** General Directorate of Road Transport Services, calculations by INSTAT

# Methodology

The purpose of this publication is to present indicators on the characteristics of road transport vehicles at the most detailed level such as: road vehicles by type, cars by brand, cars by year of production, cars by fuel and cars by engine size.

In the detailing of vehicles by fuel, in the group "other hybrids" are included the categories "Gasoline + Gas + Electric", "Gasoline + Electric + Hybrid", "Oil + Gas", "Oil + Electric + Hybrid".

## Definitions

**Mixed transport vehicles (ATP)** - includes vehicles that have a total full load weight not exceeding 3.5 tons, or 4.5 tones when there is battery traction; are intended for the transport of people and goods with a maximum capacity of nine seats, including the driver's seat.

**Special purpose vehicles (APV)** - vehicles permanently equipped with special mechanisms and generally intended for the transport of these mechanisms; on these vehicles is allowed the transport of personnel and materials related to the operational cycle of these mechanisms, as well as the transport of people and goods related to the destination of use of these mechanisms.

**Special transport vehicles (ATV)** - means of transport intended for the transport of certain goods or people under special conditions and is characterized by the equipment jointly, with special mechanisms that serve this purpose.

**Special road vehicles (MRV)** - special road vehicle for their special characteristics defined as such in the Road Code.

**CC-** the unit of measurement of the motor volume of road vehicles expressed in centimeters in cubic.

**Passenger Car** - motor vehicle of road transport intended for passenger transport, in which the number of seats (including the driver) does not exceed the number 9.

**Bus** - motor vehicle of road transport intended for passenger transport with the number of seats (including driver's seat) with more than 9 seats.

**Cyclomotor** - A motor vehicle, with two, three or four wheels.

**Semi-trailer** - A motor vehicle intended for the transport of passengers and goods.

**Agricultural machine** - A motor vehicle with wheels or a chain intended for use in agriculture and forestry, for the transport of agricultural goods.

**Motorcycles** - Three-wheeled vehicles, intended for the transport of goods. They can have up to two seats for the people involved in the transport, including the driver.

**Towing** - Vehicle intended for towing trailers or semi-trailers only.