



# IRF World Road Statistics 2023

## Indicators

	Theme	Indicator	Unit
1	Road Network	Paved Network Ratio	% paved of total roads
2	Road Network	Network Density by Land Area	km roads / km <sup>2</sup> land area
3	Road Network	Total Road Network - All Road Types - Total	Km
4	Road Network	Total Road Network - All Road Types - Paved	Km
5	Road Network	Total Road Network - All Road Types - Unpaved	Km
6	Road Network	Motorway or Highway Network	Km
7	Road Network	Main or National Road Network - Total	Km
8	Road Network	Main or National Road Network - Paved	Km
9	Road Network	Main or National Road Network - Unpaved	Km
10	Road Network	Secondary or Regional Road Network - Total	Km
11	Road Network	Secondary or Regional Road Network - Paved	Km
12	Road Network	Secondary or Regional Road Network - Unpaved	Km
13	Road Network	Other Roads - Combined (Urban and Rural) - Total	Km
14	Road Network	Other Roads - Combined (Urban and Rural) - Paved	Km
15	Road Network	Other Roads - Combined (Urban and Rural) - Unpaved	Km
16	Road Network	Other Roads - Urban - Total	Km
17	Road Network	Other Roads - Urban - Paved	Km
18	Road Network	Other Roads - Urban - Unpaved	Km
19	Road Network	Other Roads - Rural - Total	Km



20	Road Network	Other Roads - Rural - Paved	Km
21	Road Network	Other Roads - Rural - Unpaved	Km
22	Road Network	Motorway Highway Ratio	% motorways/highways of total roads
23	Road Traffic	Motorway Traffic	Mio Vehicle-Km Annual
24	Road Traffic	Highway, Main or National Road Traffic	Mio Vehicle-Km Annual
25	Road Traffic	Passenger Car Traffic	Mio Vehicle-Km Annual
26	Road Traffic	Bus and Motor Coach Traffic	Mio Vehicle-Km Annual
27	Road Traffic	Van and Pickup Traffic	Mio Vehicle-Km Annual
28	Road Traffic	Lorry and Road Tractor Traffic	Mio Vehicle-Km Annual
29	Road Traffic	Total Van, Pickup, Lorry and Road Tractor Traffic	Mio Vehicle-Km Annual
30	Road Traffic	Total four wheeled Traffic	Mio Vehicle-Km Annual
31	Road Traffic	Motorcycle and Moped Traffic	Mio Vehicle-Km Annual
32	Road Traffic	Motorway or Highway Traffic	Mio Vehicle-Km Annual
33	Road Traffic	Main or National Road Traffic - Total	Mio Vehicle-Km Annual
34	Road Traffic	Main or National Road Traffic on Paved Roads	Mio Vehicle-Km Annual
35	Road Traffic	Main or National Road Traffic on Unpaved Roads	Mio Vehicle-Km Annual
36	Road Traffic	Secondary or Regional Road Traffic - Total	Mio Vehicle-Km Annual
37	Road Traffic	Secondary or Regional Road Traffic on Paved Roads	Mio Vehicle-Km Annual
38	Road Traffic	Secondary or Regional Road Traffic on Unpaved Roads	Mio Vehicle-Km Annual
39	Road Traffic	Other Road Traffic - Combined (Urban and Rural) - Total	Mio Vehicle-Km Annual
40	Road Traffic	Other Road Traffic - Combined (Urban and Rural) - Paved	Mio Vehicle-Km Annual
41	Road Traffic	Other Road Traffic - Combined (Urban and Rural) - Unpaved	Mio Vehicle-Km Annual
42	Road Traffic	Other Road Traffic - Urban - Total	Mio Vehicle-Km Annual
43	Road Traffic	Other Road Traffic - Urban - Paved	Mio Vehicle-Km Annual



44	Road Traffic	Other Road Traffic - Urban - Unpaved	Mio Vehicle-Km Annual
45	Road Traffic	Other Road Traffic - Rural - Total	Mio Vehicle-Km Annual
46	Road Traffic	Other Road Traffic - Rural - Paved	Mio Vehicle-Km Annual
47	Road Traffic	Other Road Traffic - Rural - Unpaved	Mio Vehicle-Km Annual
48	Multimodal Traffic	Inland Surface Freight Transport by ROAD	Mio Tonne-Km
49	Multimodal Traffic	Inland Surface Freight Transport by RAIL	Mio Tonne-Km
50	Multimodal Traffic	Inland Surface Freight Transport by INLAND WATERWAY	Mio Tonne-Km
51	Multimodal Traffic	Inland Surface Freight Transport - Total	Mio Tonne-Km
52	Multimodal Traffic	Inland Surface PUBLIC Passenger Transport by ROAD	Mio Passenger-Km
53	Multimodal Traffic	Inland Surface PRIVATE Passenger Transport by ROAD	Mio Passenger-Km
54	Multimodal Traffic	Inland Surface Passenger Transport by ROAD - Total	Mio Passenger-Km
55	Multimodal Traffic	Inland Surface Passenger Transport by ROAD - Total	Mio Passenger-Km
56	Multimodal Traffic	Inland Surface Passenger Transport - Total	Mio Passenger-Km
57	Vehicles in Use	Passenger Cars In Use	n
58	Vehicles in Use	Buses and Motor Coaches In Use	n
59	Vehicles in Use	Vans and Pickups In Use	n
60	Vehicles in Use	Lorries and Road Tractors In Use	n
61	Vehicles in Use	Total Vans, Pickups, Lorries and Road Tractors In Use	n
62	Vehicles in Use	Total Vehicles In Use	n
63	Vehicles in Use	Motorcycles and Mopeds In Use	n
64	Vehicles in Use	Passenger Cars In Use Rate by Population	Passenger cars / 1,000 pop
65	Vehicles in Use	Total Vehicles In Use Rate by Population	Total vehicles / 1,000 pop
66	Vehicles in Use	Total Vehicles In Use Rate by Network	Total vehicles / km of roads
67	Road Accidents	Total Male Persons Killed	n
68	Road Accidents	Total Female Persons Killed	n



69	Road Accidents	Total Persons Killed	n
70	Road Accidents	Persons Injured	n
71	Road Accidents	Fatal Accidents	n
72	Road Accidents	Non-fatal Injury Accidents	n
73	Road Accidents	Injury Accidents	n
74	Road Accidents	Vehicle Damage only Accidents	n
75	Road Accidents	Persons Killed Rate	Fatalities / 100,000 population
76	Road Accidents	Injury Accident Rate	injury accidents / 100,000 population
77	Road Accidents	Injury Accident Density	accidents / 100km road
78	Road Accidents	Injury Accident Risk	injury accidents / 100m Veh-Km
79	Road Accidents	Male Persons Killed on Motorways or Highways	n
80	Road Accidents	Female Persons Killed on Motorways or Highways	n
81	Road Accidents	Total Persons Killed on Motorways or Highways	n
82	Road Accidents	Persons Injured on Motorways or Highways	n
83	Road Accidents	Injury Accidents on Motorways and Highways	n
84	Road Accidents	Male Persons Killed on Main or National Roads	n
85	Road Accidents	Female Persons Killed on Main or National Roads	n
86	Road Accidents	Total Persons Killed on Main or National Roads	n
87	Road Accidents	Persons Injured on Main or National Roads	n
88	Road Accidents	Injury Accidents on Main or National Roads	n
89	Road Accidents	Male Persons Killed on Secondary or Regional Roads	n
90	Road Accidents	Female Persons Killed on Secondary or Regional Roads	n



91	Road Accidents	Total Persons Killed on Secondary or Regional Roads	n
92	Road Accidents	Persons Injured on Secondary or Regional Roads	n
93	Road Accidents	Injury Accidents on Secondary or Regional Roads	n
94	Road Accidents	Male Persons Killed on Other Roads Combined (Urban & Rural)	n
95	Road Accidents	Female Persons Killed on Other Roads Combined (Urban & Rural)	n
96	Road Accidents	Total Persons Killed on Other Roads Combined (Urban & Rural)	n
97	Road Accidents	Persons Injured on Other Roads Combined (Urban & Rural)	n
98	Road Accidents	Injury Accidents on Other Roads Combined (Urban & Rural)	n
99	Road Accidents	Male Persons Killed on Other Urban Roads	n
100	Road Accidents	Female Persons Killed on Other Urban Roads	n
101	Road Accidents	Total Persons Killed on Other Urban Roads	n
102	Road Accidents	Persons Injured on Other Urban Roads	n
103	Road Accidents	Injury Accidents on Other Urban Roads	n
104	Road Accidents	Male Persons Killed on Other Rural Roads	n
105	Road Accidents	Female Persons Killed on Other Rural Roads	n
106	Road Accidents	Total Persons Killed on Other Rural Roads	n
107	Road Accidents	Persons Injured on Other Rural Roads	n
108	Road Accidents	Injury Accidents on Other Rural Roads	n
109	Road Accidents	Killed Drivers of four wheeled vehicles - Male	n
110	Road Accidents	Killed Drivers of four wheeled vehicles - Female	n
111	Road Accidents	Killed Drivers of four wheeled vehicles - Total	n



112	Road Accidents	Killed Passengers in four wheeled vehicles - Male	n
113	Road Accidents	Killed Passengers in four wheeled vehicles - Female	n
114	Road Accidents	Killed Passengers in four wheeled vehicles - Total	n
115	Road Accidents	Killed Users of motorised two or three wheeled vehicles - Male	n
116	Road Accidents	Killed Users of motorised two or three wheeled vehicles - Female	n
117	Road Accidents	Killed Users of motorised two or three wheeled vehicles - Total	n
118	Road Accidents	Killed pedal cycle users - Male	n
119	Road Accidents	Killed pedal cycle users - Female	n
120	Road Accidents	Killed pedal cycle users - Total	n
121	Road Accidents	Killed pedestrians - Male	n
122	Road Accidents	Killed pedestrians - Female	n
123	Road Accidents	Killed pedestrians - Total	n
124	Road Accidents	Other Killed Road Users - Male	n
125	Road Accidents	Other Killed Road Users - Female	n
126	Road Accidents	Other Killed Road Users - Total	n
127	Road Accidents	Fatalities Gender Ratio	% males
128	Production, Imports, First Registrations, Exports	Passenger Car Production	n
129	Production, Imports, First Registrations, Exports	Passenger Car First Registrations	n
130	Production, Imports, First Registrations, Exports	Passenger Car New Imports	n
131	Production, Imports, First Registrations, Exports	Passenger Car Used Imports	n
132	Production, Imports, First Registrations, Exports	Total Passenger Car Imports	n
133	Production, Imports, First Registrations, Exports	Passenger Car New Exports	n



134	Production, Imports, First Registrations, Exports	Passenger Car Used Exports	n
135	Production, Imports, First Registrations, Exports	Total Passenger Car Exports	n
136	Production, Imports, First Registrations, Exports	All Motor Vehicle Production (excl. Motorcycles and Mopeds)	n
137	Production, Imports, First Registrations, Exports	All Motor Vehicle New Imports (excl. Motorcycles and Mopeds)	n
138	Production, Imports, First Registrations, Exports	All Motor Vehicle Used Imports (excl. Motorcycles and Mopeds)	n
139	Production, Imports, First Registrations, Exports	All Motor Vehicle Imports (excl. Motorcycles and Mopeds)	n
140	Production, Imports, First Registrations, Exports	All Motor Vehicle First Registrations (excl. Motorcycles and Mopeds)	n
141	Production, Imports, First Registrations, Exports	All Motor Vehicle New Exports (excl. Motorcycles and Mopeds)	n
142	Production, Imports, First Registrations, Exports	All Motor Vehicle Used Exports (excl. Motorcycles and Mopeds)	n
143	Production, Imports, First Registrations, Exports	All Motor Vehicle Exports (excl. Motorcycles and Mopeds)	n
144	Production, Imports, First Registrations, Exports	Buses and Motor Coaches Production	n
145	Production, Imports, First Registrations, Exports	Buses and Motor Coaches New Imports	n
146	Production, Imports, First Registrations, Exports	Buses and Motor Coaches Used Imports	n
147	Production, Imports, First Registrations, Exports	Total Buses and Motor Coaches Imports	n
148	Production, Imports, First Registrations, Exports	Buses and Motor Coaches First Registrations	n
149	Production, Imports, First Registrations, Exports	Buses and Motor Coaches New Exports	n
150	Production, Imports, First Registrations, Exports	Buses and Motor Coaches Used Exports	n
151	Production, Imports, First Registrations, Exports	Total Buses and Motor Coaches Exports	n



152	Production, Imports, First Registrations, Exports	Vans and Pickups Production	n
153	Production, Imports, First Registrations, Exports	Vans and Pickups New Imports	n
154	Production, Imports, First Registrations, Exports	Vans and Pickups Used Imports	n
155	Production, Imports, First Registrations, Exports	Total Vans and Pickups Imports	n
156	Production, Imports, First Registrations, Exports	Vans and Pickups First Registrations	n
157	Production, Imports, First Registrations, Exports	Vans and Pickups New Exports	n
158	Production, Imports, First Registrations, Exports	Vans and Pickups Used Exports	n
159	Production, Imports, First Registrations, Exports	Total Vans and Pickups Exports	n
160	Production, Imports, First Registrations, Exports	Lorries and Road Tractors Production	n
161	Production, Imports, First Registrations, Exports	Lorries and Road Tractors New Imports	n
162	Production, Imports, First Registrations, Exports	Lorries and Road Tractors Used Imports	n
163	Production, Imports, First Registrations, Exports	Total Lorries and Road Tractors Imports	n
164	Production, Imports, First Registrations, Exports	Lorries and Road Tractors First Registrations	n
165	Production, Imports, First Registrations, Exports	Lorries and Road Tractors New Exports	n
166	Production, Imports, First Registrations, Exports	Lorries and Road Tractors Used Exports	n
167	Production, Imports, First Registrations, Exports	Total Lorries and Road Tractors Exports	n
168	Production, Imports, First Registrations, Exports	Motorcycles and Mopeds Production	n
169	Production, Imports, First Registrations, Exports	Motorcycles and Mopeds New Imports	n





170	Production, Imports, First Registrations, Exports	Motorcycles and Mopeds Used Imports	n
171	Production, Imports, First Registrations, Exports	Total Motorcycles and Mopeds Imports	n
172	Production, Imports, First Registrations, Exports	Motorcycles and Mopeds First Registrations	n
173	Production, Imports, First Registrations, Exports	Motorcycles and Mopeds New Exports	n
174	Production, Imports, First Registrations, Exports	Motorcycles and Mopeds Used Exports	n
175	Production, Imports, First Registrations, Exports	Total Motorcycles and Mopeds Exports	n
176	Road Expenditures & Revenues	Central Government Construction Expenditure	Mio USD
177	Road Expenditures & Revenues	Central Government Maintenance Expenditure	Mio USD
178	Road Expenditures & Revenues	Central Government Other Expenditure	Mio USD
179	Road Expenditures & Revenues	Central Government Expenditure - Total	Mio USD
180	Road Expenditures & Revenues	Regional and Local Government Construction Expenditure	Mio USD
181	Road Expenditures & Revenues	Regional and Local Government Maintenance Expenditure	Mio USD
182	Road Expenditures & Revenues	Regional and Local Government Other Expenditure	Mio USD
183	Road Expenditures & Revenues	Regional and Local Government Expenditure - Total	Mio USD
184	Road Expenditures & Revenues	Private Sector Construction Expenditure	Mio USD
185	Road Expenditures & Revenues	Private Sector Maintenance Expenditure	Mio USD
186	Road Expenditures & Revenues	Private Sector Other Expenditure	Mio USD
187	Road Expenditures & Revenues	Private Sector Expenditure - Total	Mio USD
188	Road Expenditures & Revenues	Construction Expenditure - Total	Mio USD
189	Road Expenditures & Revenues	Maintenance Expenditure - Total	Mio USD
190	Road Expenditures & Revenues	Other Expenditure - Total	Mio USD
191	Road Expenditures & Revenues	Total Expenditure	Mio USD



192	Road Expenditures & Revenues	Fuel Tax Revenue	Mio USD
193	Road Expenditures & Revenues	Toll Revenue	Mio USD
194	Road Expenditures & Revenues	Other Revenue	Mio USD
195	Road Expenditures & Revenues	Total Revenue	Mio USD
196	Fuel Prices	Diesel Price	US \$ / litre
197	Fuel Prices	Super Gas Price	US \$ / litre
198	CO2 Emissions	Inland transport CO2 emissions by ROAD	Million Tonnes of CO2 / year
199	CO2 Emissions	Inland transport CO2 emissions by RAIL	Million Tonnes of CO2 / year
200	CO2 Emissions	Inland transport CO2 emissions by INLAND WATERWAY	Million Tonnes of CO2 / year
201	CO2 Emissions	Inland transport CO2 emissions - Total	Million Tonnes of CO2 / year
202	CO2 Emissions	All sectors CO2 emissions - Total	Million Tonnes of CO2 / year
203	CO2 Emissions	Inland transport sector percentage of total CO2 emissions	%
204	Energy Consumption	Energy consumption road sector	Ktoe
205	Energy Consumption	Total primary energy supply	Ktoe
206	Energy Consumption	Gas and diesel oil consumption	Kt
207	Energy Consumption	Motor gasoline consumption	Kt