

IRF World Road Statistics

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Summary

The International Road Federation (IRF) maintains a database known as World Road Statistics (WRS), comprising over 200 series for over 200 countries. The database is a tremendous resource for infrastructure data, specifically transportation network data. WRS contains information on total road length, but also contains filters to view paved vs. unpaved roads, the kinds of traffic (commercial vs. private), the vehicles using the roadway, accidents and the consequences of them, and more.

To IFs, the IRF provides an important window into the transportation infrastructure of a country. A robust, paved road network makes it easier for a country's exporters to access ports, and for its citizens to find jobs if they are scarce locally. IFs uses three preprocessors from this data source: RoadsPavedKm, the total length of paved roads in a country measured in kilometers; RoadsTotalNetwork, the total length of roads paved or unpaved; and RoadsPaved%, the proportion of the total network which is paved.

Another table is usually updated with these three preprocessors: RuralAccessIndex. The Rural Access Index measures the proportion of the rural population who live within 2 km of an all-season road. It is included in the Sustainable Development Goals as indicator 9.1.1., providing a way of measuring progress towards Goal 9 and Target 9.1. This table is pulled from the World Bank.

The latest update in IFs was in April 2025.

Tables In IFs

| Table | Definition | Extended Source Definition | Unit | Years | Source | Name in Source | Preprocessor Name |
|----------------------------|--|--|------------|---------------------|--|---|-------------------|
| SeriesRoadRuralAccessIndex | Rural Access Index, proportion of the rural population who live within 2 km (25 minute walk) of all-weather road | RAI estimates the number of people who live within 2 kilometers (or about 25 minutes walking time) of the nearest all-weather road (Roberts, KC, and Rastogi 2006) | Index | 1993-2004,2009-2022 | Rural Access Index, World Bank | Rural Access Index | INFRASTRUCTURE |
| SeriesRoadsTotalNetwork | Roads, total network, kilometers | some values are filled from CIA's World Factbook, significantly inconsistent values are manually deleted. | Kilometers | 1960-2022 | World Road Statistics, International Road Federation | Total Road Network - All Road Types - Total | INFRASTRUCTURE |
| SeriesRoadsPaved% | Paved roads as a percent of total roads | some values are filled from CIA's World Factbook, significantly inconsistent values are manually deleted. | Percent | 1990-2022 | World Road Statistics, International Road Federation | Paved Network Ratio | INFRASTRUCTURE |
| SeriesRoadPavedKm | Length of paved roads, kilometers | No Extended Source | Kilometers | 1990-2010,2017-2022 | World Road Statistics, International Road Federation | Total Road Network-All Road Types - Paved | INFRASTRUCTURE |

Data Pulling Instructions

Step 1) Navigate to <https://datawarehouse.worldroadstatistics.org/users/login>. If necessary, register. The registration process is short, and provides immediate access to the data warehouse

IRF WORLD ROAD STATISTICS DATAWAREHOUSE

Login

Please login with your email and password:

Email

••••••••••••••••


Register

Forgotten Your Password?

Login

IRF World Road Statistics Login Page


Step 2) Select "Country Comparison - Multiple Years" under Chart Type.




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[Datawarehouse](#) [WRS Dashboards](#) [Account](#) [Contact](#) [Logout](#)


Select a chart type




Total metric with breakdown (by category) ⓘ



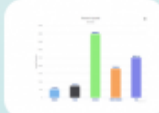
Metric comparison (same unit) ⓘ




Metric comparison (with different units) ⓘ



Country comparison (multiple years) ⓘ



Country comparison (total of multiple years) ⓘ



Country comparison (one year) ⓘ

Select Country Comparison (Multiple Years)

Step 3) Manually select each continent in the selection box.



Country comparison (multiple years)

[Clear selection](#)

Type name or select from list

Continents

- Africa
- America
- Asia
- Europe
- Oceania

Metrics

Select each continent manually

Step 4) In the countries box, select "all countries".



Country comparison (multiple years)

[Clear selection](#)

Type name or select from list

Continents

Africa X

America X

Asia X

Europe X

Oceania X

Countries

All countries

Afghanistan

Albania

Algeria

American Samoa

Select "All countries"

Step 5) Under themes, select an option. Most IFs preprocessors will be under "Road Network". This example will continue with that selection.



Country comparison (multiple years)

Type name or select from list Clear selection

Continents

Select >>

- Road Network
- Road Traffic
- Multimodal Traffic
- Vehicles In Use
- Road Accidents
- Production, Imports, First Registrations and Exports of Vehicles
- Road Expenditures and Revenues
- Fuel Prices
- CO2 Emissions
- Energy Consumption
- Country Profiles Geography
- Country Profiles Economy

Select >>

Metrics

Select >>

Select desired option under "Themes"

Step 6) Under "Metrics", select desired series.

- For the preprocessor RoadPavedKm, select "Total Road Network- All Road Types - Paved"
- For the preprocessor RoadsTotalNetwork, select "Total Road Network- All Road Types - Total"
- For the preprocessor RoadsPaved%, select "Paved Network Ratio"



Country comparison (multiple years)

Type name or select from list Clear selection

Select >>

- Paved Network Ratio
- Network Density by Land Area
- Total Road Network - All Road Types - Total
- Total Road Network - All Road Types - Paved
- Total Road Network - All Road Types - Unpaved
- Motorway or Highway Network
- Main or National Road Network - Total
- Main or National Road Network - Paved
- Main or National Road Network - Unpaved
- Secondary or Regional Road Network - Total
- Secondary or Regional Road Network - Paved
- Secondary or Regional Road Network - Unpaved
- Other Roads - Combined (Urban and Rural) - Total
- Other Roads - Combined (Urban and Rural) - Paved
- Other Roads - Combined (Urban and Rural) - Unpaved
- Other Roads - Urban - Total
- Other Roads - Urban - Paved
- Other Roads - Urban - Unpaved
- Other Roads - Rural - Total

Select >>

Select desired series under "Metrics"

Step 7) After those four selections are complete, the Country comparison page will look like this. Select "Show Graph".

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Datawarehouse WRS Dashboards Account Contact Logout

Country comparison (multiple years)

Clear selection

Type name or select from list

Continents

Africa X America X Asia X Europe X
Oceania X

Countries

All countries X

Themes

Road Network

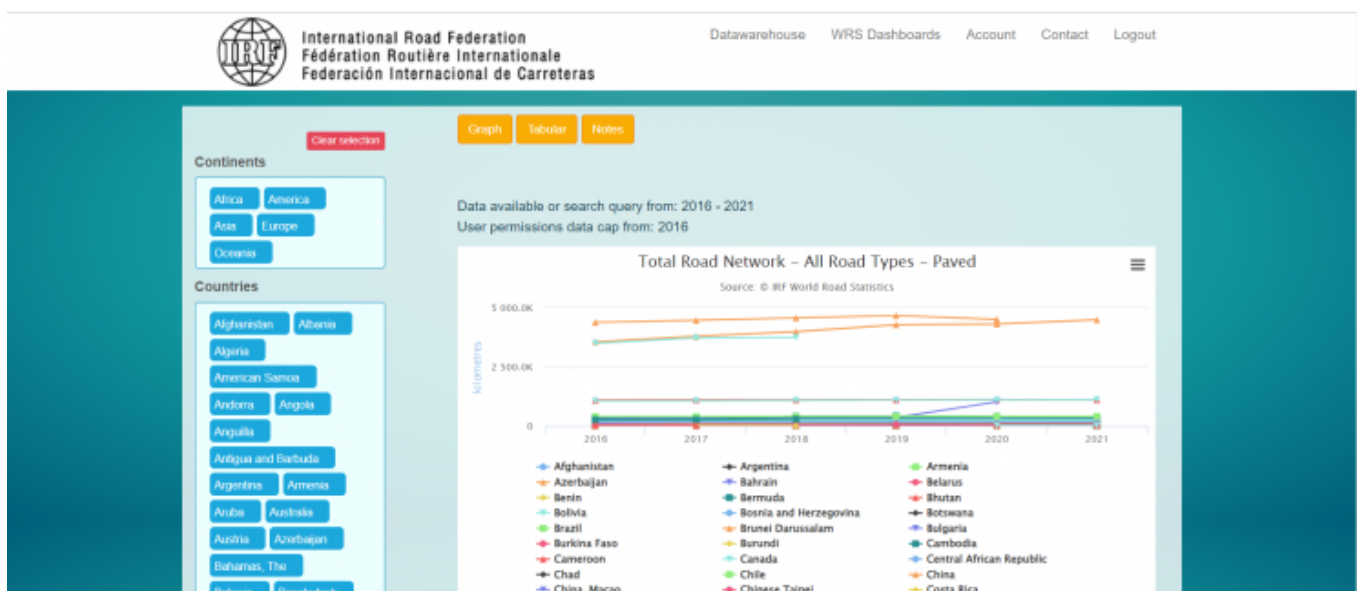
Metrics

Total Road Network - All Road Types - Paved

Show Graph

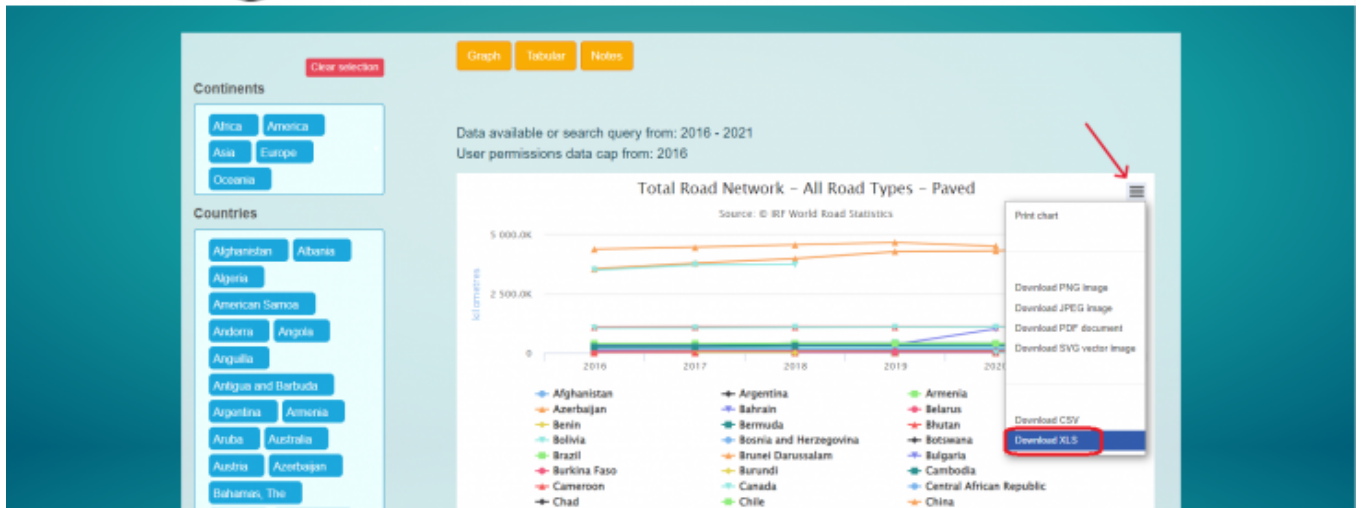
Country completion page after selection

Step 8) A new page will populate.



WRS Graph Page

Step 9) Click on the three bar menu in the upper right corner of the graph, then "download as CSV" or "download as XLS".



Download the data series

Step 10) An Excel sheet will download. The downloaded spreadsheet is in time series data. If necessary, pivot the Excel sheet to bring it into IFs import format. Now you can format the data to upload it into IFs. To import data into IFs, please follow the instructions found in the Importing Data (general instructions) page.

Data Notes

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