

# 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) some values are filled from CIA's World Factbook, significantly inconsistent values are manually deleted.	Index	1993-2004, 2009-2022	Rural Access Index, World Bank	Rural Index	INFRASTRUCTURE
SeriesRoadsTotalNetwork	Roads, total network, kilometers	Roads, CIA's World Factbook, significantly inconsistent values are manually deleted. 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	Paved roads as a percent of total roads	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



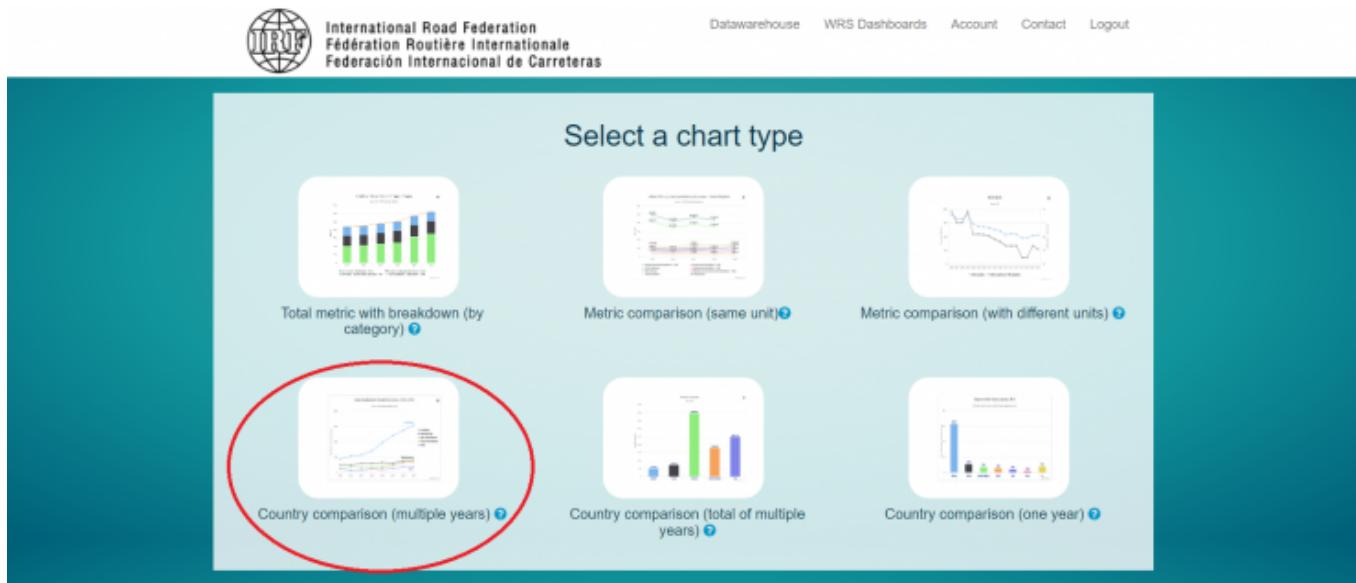
## Login

Please login with your email and password:

[Register](#)[Login](#)[Forgotten Your Password?](#)

IRF World Road Statistics Login Page

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



The screenshot shows the 'Select a chart type' interface. At the top, the International Road Federation logo is displayed in three languages: English, French, and Spanish. Below the logo, the main title 'Select a chart type' is centered. Six chart options are listed in a 2x3 grid:

- Total metric with breakdown (by category) ⓘ
- Metric comparison (same unit) ⓘ
- Metric comparison (with different units) ⓘ
- Country comparison (multiple years) ⓘ** (This chart is circled in red)
- 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 a theme >>

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
- America
- Asia
- Europe
- Oceania

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.

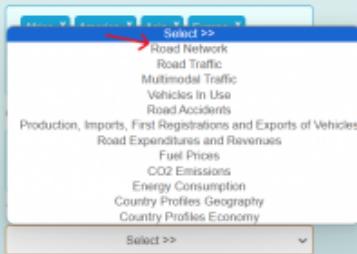


## Country comparison (multiple years)

[Clear selection](#)

Type name or select from list

Continents



Metrics



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)

[Clear selection](#)

Type name or select from list

Metrics



Select desired series under "Metrics"

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

### Country comparison (multiple years)

[Clear selection](#)

Type name or select from list

## Continents

© Pearson 2010

All countries: X

### Themes

## Road Network

## Metrics

Total Road Network - All Road Types - Paved

Show Graph

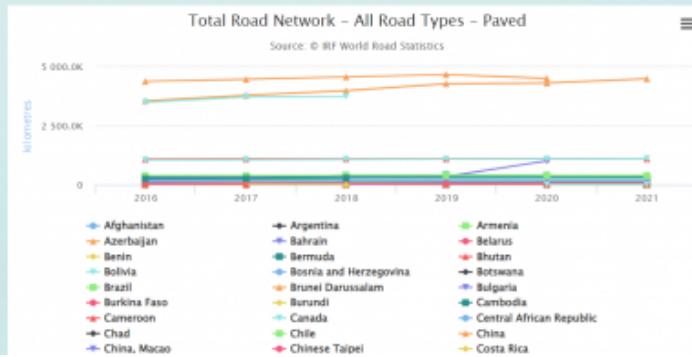
10 of 10

## Country completion page after selection

Step 8) A new page will populate.

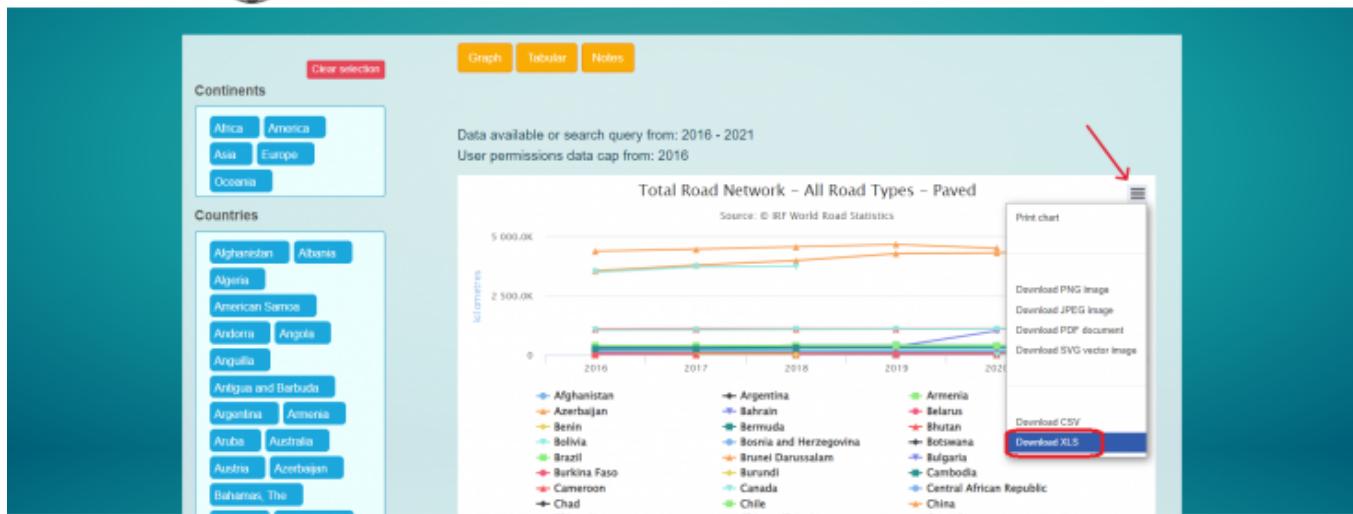
## Continents

Data available or search query from: 2016 - 2021  
User permissions data cap from: 2016



## 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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