

# Package ‘rGhanaCensus’

May 9, 2026

**Title** 2021 Ghana Population and Housing Census Results as Data Frames

**Version** 0.1.0

**Description** Datasets from the 2021 Ghana Population and Housing Census Results. Users can access results as 'tidyverse' and 'sf'-Ready Data Frames. The data in this package is scraped from pdf reports released by the Ghana Statistical Service website <<https://census2021.statsghana.gov.gh/>>. The package currently only contains datasets from the literacy and education reports. Namely, school attendance data for respondents aged 3 years and above.

**License** MIT + file LICENSE

**Encoding** UTF-8

**RoxygenNote** 7.1.2

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**Depends** R (>= 3.5.0)

**LazyData** true

**Suggests** dplyr, knitr, magrittr, rmarkdown, sf, tmap

**VignetteBuilder** knitr

**URL** <https://github.com/ktemadarko/rGhanaCensus>

**BugReports** <https://github.com/ktemadarko/rGhanaCensus/issues>

**NeedsCompilation** no

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**Repository** CRAN

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Ghana\_2021\_school\_attendance

*Ghana School Attendance Indicator data*

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### Description

The Ghana\_2021\_school\_attendance dataset contains school attendance indicators for respondents in the 16 regions of Ghana surveyed in the 2021 Ghana Population and Housing Census.

- Details -Age range of survey respondents in this data set 3 years and above.

### Usage

Ghana\_2021\_school\_attendance

### Format

A data frame with 64 rows and 10 variables:

- Region
  - A factor with 16 levels with the names of the regions in Ghana
- Gender
  - A factor with 2 levels
- Locality
  - A factor with 2 levels describing with the respondents surveyed lived in an urban or rural area
- Currently\_Attending\_School
  - numeric column with the raw count values of survey respondents aged 3 years and above currently attending school
- Percent\_Currently\_Attending\_School
  - A numeric column with the derived percentage of
  - $((\text{Currently\_Attending\_School})/\text{Sum\_of\_Respondents\_}(3\_years\_and\_above))*100$  to two decimal places
- Never\_Attended\_School
  - -A numeric column with the raw count values of survey respondents aged 3 years and above who have never attended school
- Percent\_Never\_Attended\_School
  - A numeric column with the derived percentage of
  - $((\text{Never\_Attended\_School})/\text{Sum\_of\_Respondents\_}(3\_years\_and\_above))*100$  to two decimal places
- Dropped\_out\_of\_School
  - A numeric column with the raw count values of survey respondents aged 3 years and above who were in school but dropped out

- Percent\_Dropped\_out\_of\_School
  - A numeric column with the derived percentage of
  - $((\text{Dropped\_out\_of\_School})/\text{Sum\_of\_Respondents\_}(3\_years\_and\_above))*100$  to two decimal places
- Sum\_of\_Respondents\_(3\_years\_and\_above)
  - A numeric column with the raw sum values in each row.
  - That is sum of (Currently\_Attending\_School, Never\_Attended\_School, Dropped\_out\_of\_School) in each row

### Source

- School attendance data
- Scraped from Ghana Statistical Service published 2021 Ghana Population and Housing Census Results Volume 3D Literacy and Education PDF Reports

[https://statsghana.gov.gh/gssmain/fileUpload/pressrelease/2021%20PHC%20General%20Report%20Vol%203D\\_Literacy%20and%20Education.pdf](https://statsghana.gov.gh/gssmain/fileUpload/pressrelease/2021%20PHC%20General%20Report%20Vol%203D_Literacy%20and%20Education.pdf)

- Ghana regional administrative boundaries geometry data
- Downloaded from Humanitarian data exchange website on 7th January, 2022

<https://data.humdata.org/dataset/ghana-administrative-boundaries>

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Ghana\_2021\_school\_attendance\_geometry

*Ghana School Attendance Indicator data plus geometry*

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### Description

The Ghana\_2021\_school\_attendance\_geometry dataset contains school attendance indicators for respondents in the 16 regions of Ghana surveyed in the 2021 Ghana Population and Housing Census plus Ghana regional administrative boundaries.

- Details Age range of survey respondents in this data set 3 years and above.

### Usage

Ghana\_2021\_school\_attendance\_geometry

### Format

A data frame with 64 rows and 10 variables:

- Region
  - A factor with 16 levels with the names of the regions in Ghana
- Gender

- A factor with 2 levels
- Locality
  - A factor with 2 levels describing with the respondents surveyed lived in an urban or rural area
- Currently\_Attending\_School
  - numeric column with the raw count values of survey respondents aged 3 years and above currently attending school
- Percent\_Currently\_Attending\_School
  - A numeric column with the derived percentage of
  - $((\text{Currently\_Attending\_School})/\text{Sum\_of\_Respondents\_}(3\_years\_and\_above))*100$  to two decimal places
- Never\_Attended\_School
  - -A numeric column with the raw count values of survey respondents aged 3 years and above who have never attended school
- Percent\_Never\_Attended\_School
  - A numeric column with the derived percentage of
  - $((\text{Never\_Attended\_School})/\text{Sum\_of\_Respondents\_}(3\_years\_and\_above))*100$  to two decimal places
- Dropped\_out\_of\_School
  - A numeric column with the raw count values of survey respondents aged 3 years and above who were in school but dropped out
- Percent\_Dropped\_out\_of\_School
  - A numeric column with the derived percentage of
  - $((\text{Dropped\_out\_of\_School})/\text{Sum\_of\_Respondents\_}(3\_years\_and\_above))*100$  to two decimal places
- Sum\_of\_Respondents\_(3\_years\_and\_above)
  - A numeric column with the raw sum values in each row.
  - That is sum of (Currently\_Attending\_School, Never\_Attended\_School, Dropped\_out\_of\_School) in each row

### Source

- School attendance data
- Scraped from Ghana Statistical Service published 2021 Ghana Population and Housing Census Results Volume 3D Literacy and Education PDF Reports

[https://statsghana.gov.gh/gssmain/fileUpload/pressrelease/2021%20PHC%20General%20Report%20Vol%203D\\_Literacy%20and%20Education.pdf](https://statsghana.gov.gh/gssmain/fileUpload/pressrelease/2021%20PHC%20General%20Report%20Vol%203D_Literacy%20and%20Education.pdf)

- Ghana regional administrative boundaries geometry data
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<https://data.humdata.org/dataset/ghana-administrative-boundaries>

**Examples**

```
## Not run:

#Example

#Create a interactive map with the package tmap that displays the
#regional distribution of percentage of students 3 years or older who have dropped out of school.

#Load required packages
library(sf)
library(tmap)
library(dplyr)
library(magrittr)

#Load geometry data
data("Ghana_2021_school_attendance_geometry", package = "rGhanaCensus")

#Convert to sf data frame and assign a name
#In this example, "Ghana_edu_sf" will be the name of the sf data frame created.

Ghana_edu_sf<- sf::st_as_sf(Ghana_2021_school_attendance_geometry)

#Use tmap to create interactive map
tmap_mode("plot")

Ghana_edu_sf %>%
  dplyr::filter(Locality=="Urban") %>%
  tm_shape()+
  tm_polygons(id="Region", col="Percent_Dropped_out_of_School")+
  tm_text(text="Percent_Dropped_out_of_School")+
  tm_facets(by="Gender")

## End(Not run)
```

# Index

## \* datasets

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