

Esri Demographic Data Release Notes: South Africa

Release: March 2022

Introduction

The Esri demographic dataset for South Africa provides key population, and household attributes for use in a variety of applications. Release notes provide information such as the attribute list, vintage, source, and changes to the dataset. The [methodology](#) document provides additional information regarding methods and definitions. Refer to the associated csv file for a list of attributes.

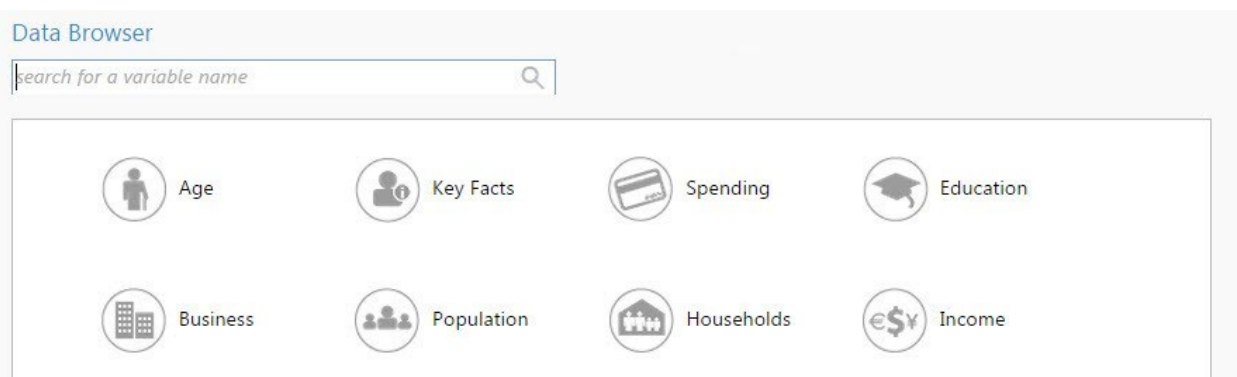
Esri demographic datasets are part of the [Living Atlas of the World](#). The Living Atlas is an incredible collection of maps and apps from around the world. It features Esri and user content, that can enhance your research and analysis. You too can contribute your maps, apps, and story maps through the [Living Atlas contributor app](#).

Using Demographic Data

Government agencies use demographic data to provide better services to citizens. Marketers use demographic data to select store locations, target customers, and improve product mix. Utilities use demographic data to understand population changes in their service areas and to plan growth and distribution accordingly.

When you map Esri demographic layers along with your data, you can answer questions such as “who are my customers?” and “where should we open the next store?” For example, map your retail locations or offices on top of Esri demographic attributes such as population, age, and purchasing power, to understand the local community from a demographic perspective. Once you see the general pattern, Esri products such as [ArcGIS Online](#), [Business Analyst](#), and [ArcGIS Maps for Office](#), can help you find other suitable locations for new stores based on actionable criteria.

Use the [Data Browser](#) in Esri products such as [ArcGIS Online](#), [Business Analyst](#) and [ArcGIS Maps for Office](#) to easily find the attributes you want. Browse by category such as **Age**, or search by **Alias Name**, as shown below:



Map the attributes you select using the dataset’s features, or create your own custom analysis areas. Esri products calculate new attribute values and answer questions such as “How many older people live within a five minute drive of the proposed clinic?”

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Continue below for additional details regarding the South Africa dataset.

Source

Data: © Michael Bauer Research GmbH 2021 based on © Statistics South Africa, UN.
Boundaries: © Michael Bauer Research GmbH, Nuremberg, Germany, 2021. Data Source for Digital Boundaries: 2021 Michael Bauer Research GmbH based on © Statistics South Africa.
Settlement: WorldPop.org 100m Constrained UN adjusted projected 2020 population grid.

Dataset Information

South Africa	
3 Letter ISO Country code	ZAF
Currency	South African Rand
3 Letter Currency code	ZAR
Number of attributes available	126
Number of geography levels	7

Geographic Levels and Feature Counts

	Geography Levels Available for South Africa	Geography Levels Available through ArcGIS.com Maps	Feature Count
Country	X	X	1
Provinces	X	X	9
Districts	X	X	52
Municipalities	X	X	213
Main Places	X	X	14039
Sub Places	X	X	22108
Small Areas	X	X	85183

Data Apportionment Settings

Threshold Upper Bound	Aggregation Method	Level of Geography
150 km	Block Apportion	ZA.SmallAreas
250 km	Centroids In Polygon	ZA.SmallAreas
400 km	Centroids In Polygon	ZA.SubPlaces
more	Centroids In Polygon	ZA.MainPlaces

Attributes

Refer to the associated csv file for a list of attributes. The following information is included for each attribute:

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Variable ID	Unique variable ID that consists of no more than 10 characters
Alias Name	Description associated with Variable ID .
Category	Shows the Data Browser category for each attribute.
Data Collection	Shows the data collection within the Category .
Field Category	Shows the field category within the Data Collection .
Long Description	Long description associated with Variable ID.
Year	Vintage represents the year for which projections were created.

Change Summary

Changes to geography level names

None.

New Attributes

Attribute Name	Alias Name	Category
EDUC_BASE	2021 Education Attainment Base	Education
MRST_BASE	2021 Marital Status Base	Marital Status

Attributes no longer available

None.

Change Notes

Market Data are now projections for 2021 (before: 2019). Unemployed persons are shown for 2020 (before 2018). Covid-19 pandemic has been of influence for the Consumer Spending 2021 in Africa leading to deviations also within the categories. To further improve our data we have made methodological adjustments within our Households by Income Quintiles. In combination with the current situation due to the Covid-19 pandemic higher deviations may occur.

The settlement points were updated from 75-meters Settlement Point Type: Modeled Population (2016 MDA BaseVue Land Cover/2017 Landsat8 Panchromatic Texture/2017 OSM Road Intersections/2017 GeoNames Populated Places/2019 Vectors) to WorldPop.org 100m Constrained UN adjusted projected 2020 population grid. These settlement points are a significant improvement over the previous versions and could result in significant changes to previously run values in some trade areas. Settlement points are used in the data apportionment algorithm to redistribute data variables to input polygon features. Learn more about [how data apportionment works](#).