

Package ‘misuvi’

May 8, 2026

Type Package

Title Access the Michigan Substance Use Vulnerability Index (MI-SUVI)

Version 0.1.1

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Description Easily import the MI-SUVI data sets. The user can import data sets with full metrics, percentiles, Z-scores, or rankings. Data is available at both the County and Zip Code Tabulation Area (ZCTA) levels. This package also includes a function to import shape files for easy mapping and a function to access the full technical documentation. All data is sourced from the Michigan Department of Health and Human Services.

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URL <https://github.com/brendensm/misuvi>

Encoding UTF-8

LazyData true

Depends R (>= 4.1.0)

RoxygenNote 7.3.1

Imports curl, sf, tigris

NeedsCompilation no

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Repository CRAN

Date/Publication 2025-02-10 16:50:02 UTC

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add_geometry	<i>Add shape files to your data</i>
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Description

This function queries shape files from the tigris package. This function returns an sf object.

Usage

```
add_geometry(x)
```

Arguments

x a data frame for which you want to add shape files to. Must be one of the MI-SUVI data sets.

Value

an sf data.frame of MI-SUVI data.

Examples

```
## Not run:  
my_data <- misuvi_load() |> add_geometry()  
  
## End(Not run)
```

dictionary	<i>View misuvi data dictionary</i>
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Description

This package provides a tidy version of the MI-SUVI data sets. This function returns a data frame of the cleaned variable names and the original variable names.

Usage

```
dictionary()
```

Value

A data.frame of the abbreviated and full names of the MI-SUVI variables.

Examples

```
dictionary()
```

documentation	<i>View the MI-SUVI Documentation</i>
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Description

This function opens up a PDF of the MI-SUVI documentation in your web browser.

Usage

```
documentation()
```

Value

NULL, opens a web browser of the technical documentation.

Examples

```
documentation()
```

misuvi_load	<i>Load MI-SUVI Data</i>
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Description

This function allows the user to select the MI-SUVI data set they want returned.

Usage

```
misuvi_load(geography = "county", type = "zscores", moe = FALSE)
```

Arguments

geography	Choose the geographic level you want returned to you. "county" or "zcta".
type	Select the type of data frame you would like returned. Options include "metrics", "percentiles", "zscores", and "ranks".
moe	Logical – choose whether margin of error variables are returned. This applies to the "metrics" data sets only.

Value

A clean data.frame of MI-SUVI data.

Examples

```
zcta_metrics <- misuvi_load("zcta", "metrics")  
county_zscores <- misuvi_load("county", "zscores")
```

regional_groupings	<i>Regional Groupings for Michigan</i>
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Description

This dataset provides cross walks between Michigan Counties and PIHPs, regions, urbanicity groupings, emergency preparedness regionals, and Michigan State Police Districts.

Usage

regional_groupings

Format

'regional_groupings' A data frame with 83 rows and 10 columns.

Source

Downloaded from the State of Michigan's website: <https://www.michigan.gov/opioids/-/media/Project/Websites/opioids/document/Use-Dataset-County-Population-and-Regional-Groupings.xlsx?rev=6ac0d413e9164876b1bcd32acfc30f0c>

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