

Package: mapmaryland (via r-universe)

September 4, 2024

Type Package

Title Easy Access to Maryland Spatial Data

Version 0.2.0

Description A small collection of data sources and utility functions
for working with state and county data sources in Maryland.

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URL <https://github.com/elipousson/mapmaryland>,
<https://elipousson.github.io/mapmaryland/>

BugReports <https://github.com/elipousson/mapmaryland/issues>

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cache_imap_data	<i>Cache data from Maryland iMap</i>
-----------------	--------------------------------------

Description

`cache_imap_data()` is a wrapper for `get_imap_data()` and `getdata::cache_location_data()` that save a layer from Maryland iMap or a subset of a layer to a local file. By default, the data is saved to the mapmaryland package cache folder.

Usage

```
cache_imap_data(
  data = NULL,
  nm = NULL,
  ...,
  location = NULL,
  name = NULL,
  label = NULL,
```

```

    fileext = "gpkg",
    filename = NULL,
    path = NULL,
    prefix = NULL,
    postfix = NULL,
    cache = TRUE,
    pkg = "getdata",
    create = TRUE,
    overwrite = FALSE,
    call = caller_env()
)

```

Arguments

data	Data to pass to <code>getdata::bind_block_col()</code> . <code>format_parcel_data()</code> only.
nm	Layer name identifier used to retrieve url from <code>md_imap_index</code> based on the snakecase "nm" column; Default: NULL.
...	Additional parameters passed to <code>getdata::get_esri_data()</code>
location	A <code>sf</code> , <code>sfc</code> , or <code>bbox</code> object (or other object convertible with <code>sfext::as_bbox()</code>). Required.
name	Name to make file name converted to snake case with <code>janitor::make_clean_names()</code> , e.g. "Residential zoning map" becomes "residential_zoning_map". If the name includes a file extension it is assumed that the filename has been provided as the name parameter.
label	Label to combine with name converted to snake case with <code>janitor::make_clean_names()</code> . The label is designed to identify the area or other shared characteristics across multiple data files, maps, or plots. label is ignored if name is NULL or if name includes a file extension.
fileext	File type or extension. Optional if filename or path include a file extension.
filename	File name; if filename is NULL and path does not include a file extension, name and file extension are both required.
path	Path to file or data directory. Optional. If path includes a file extension and filename and fileext are both NULL, the filename and extension included with path will be used instead. If multiple file extensions are provided to filename, path, or fileext, <code>make_filename()</code> will abort.
prefix	File name prefix. "date" adds a date prefix, "time" adds a date/time prefix; defaults to NULL.
postfix	File name postfix; defaults to NULL.
cache	If TRUE, path is set to the package cache directory using <code>get_data_dir()</code> ; defaults to FALSE.
pkg	Package name passed to <code>appname</code> parameter of <code>rappdirs::user_cache_dir()</code>
create	If FALSE and path does not exist, return path with a warning. If TRUE and <code>rlang::is_interactive()</code> is TRUE, ask user if directory should be created. If the session not interactive and create is TRUE, a new directory will be created.
overwrite	If TRUE, remove a file with the same name and path

`call` The execution environment of a currently running function, e.g. `caller_env()`. The function will be mentioned in error messages as the source of the error. See the `call` argument of `abort()` for more information.

format_md_sf *Format Maryland simple feature data*

Description

Convert the coordinate reference system, convert invalid geometry to valid geometry with `sf::st_make_valid()`, and, optionally, erase water, and clean names with `janitor::clean_names()`.

Usage

```
format_md_sf(
  data,
  crs = getOption("mapmaryland.crs", default = 3857),
  erase_water = FALSE,
  erase_data = NULL,
  clean_names = TRUE,
  dTolerance = NULL,
  smooth = FALSE,
  sf_col = "geometry",
  ...
)
```

Arguments

<code>data</code>	A sf object or for (<code>format_md_crash_data()</code> only) a data.frame object.
<code>crs</code>	coordinate reference system. Defaults to <code>getOption("mapmaryland.crs", default = 3857)</code> . This option can be set with <code>set_mapmaryland_options()</code> .
<code>erase_water</code>	If TRUE, erase any geometry intersecting with <code>md_water</code> ; Default: FALSE. If TRUE, and <code>erase_data</code> is not NULL, <code>md_water</code> is combined and unioned with <code>erase_data</code> .
<code>erase_data</code>	A sf, sfc, or bbox object with geometry that should be erased from the data, Default: NULL
<code>clean_names</code>	If TRUE, set <code>.name_repair</code> to <code>janitor::make_clean_names()</code> ; defaults to TRUE.
<code>dTolerance</code>	numeric; tolerance parameter, specified for all or for each feature geometry. If you run <code>st_simplify</code> , the input data is specified with long-lat coordinates and <code>sf_use_s2()</code> returns TRUE, then the value of <code>dTolerance</code> must be specified in meters.
<code>smooth</code>	If TRUE, smooth data with <code>smoothr::smooth</code> using default method and parameters, Default: FALSE.
<code>sf_col</code>	Name to use for output sf column, Default: 'geometry'.
<code>...</code>	Additional parameters passed to <code>format_data</code>

Value

A modified version of the input simple feature data.

See Also

[getdata::format_sf_data](#)

get_imap_data	<i>Get data from Maryland iMap</i>
---------------	------------------------------------

Description

Get data from Maryland iMap including Computer Assisted Mass Appraisal (CAMA), parcel data, Maryland Inventory of Historic Properties data, and a variety of water data.

Usage

```
get_imap_data(
  location = NULL,
  nm = NULL,
  crs = getOption("mapmaryland.crs", default = 3857),
  ...
)

get_cama_data(
  location,
  type = "core",
  crs = getOption("mapmaryland.crs", default = 3857),
  ...
)

get_parcel_data(
  location,
  type = "boundaries",
  crs = getOption("mapmaryland.crs", default = 3857),
  block = FALSE,
  ...
)

format_parcel_data(
  data,
  imap_addr_cols = list(bldg_num = "strtnum", street_dir_prefix = "strtdir", street_name
    = "strtnam", street_suffix = "strttyp")
)

get_mht_data(
  location,
```

```

    type = "mihp",
    crs = getOption("mapmaryland.crs", default = 3857),
    ...
)

get_water_data(
  location,
  type = "streams",
  crs = getOption("mapmaryland.crs", default = 3857),
  ...
)

get_imap_url(nm = NULL)

```

Arguments

location	A sf, sfc, or bbox object (or other object convertible with <code>sfext::as_bbox()</code>). Required.
nm	Layer name identifier used to retrieve url from <code>md_imap_index</code> based on the snakecase "nm" column; Default: NULL.
crs	Coordinate reference system to return. Defaults to <code>getOption("mapmaryland.crs", default = 3857)</code> .
...	Additional parameters passed to <code>getdata::get_esri_data()</code>
type	Default and supported options vary by function. See details.
block	If block is TRUE, pass parcel data to <code>getdata::bind_block_col()</code> . Defaults to FALSE.
data	Data to pass to <code>getdata::bind_block_col()</code> . <code>format_parcel_data()</code> only.
imap_addr_cols	Named list with address column names for input data. Passed to corresponding parameters in <code>getdata::bind_block_col()</code>

Details

Options for type parameter:

- `get_cama_data()`: Default: "core"; options: "bldg" (detailed building characteristics), "core", "land", "subarea" (building subarea).
- `get_water_data()`: Default: "streams", options: "streams" (Rivers and streams generalized), "streams detailed" (Rivers and streams generalized), "federal watersheds", "8 digit watersheds", "12 digit watersheds", "navigable waterways", "ponds" (Lakes and ponds)
- `get_parcel_data()`: Default "boundaries", options: "boundaries" (Parcel boundaries), "points" (Parcel points)
- `get_mht_data()`: Default: "mihp"; options: "mihp" (Maryland Inventory of Historic Properties), "nr" (National Register of Historic Places), "easements" (Preservation Easements held by the Maryland Historical Trust)

Helper functions:

- `format_parcel_data()` is a wrapper for `getdata::bind_block_col()` used by `get_parcel_data()`
- `get_imap_url()` is a look-up function for the `md_imap_index` using the short "nm" column as a index.

get_md_crash_data *Get and format Maryland crash data*

Description

Get crash data using `get_md_open_data()`. `format_md_crash_data` works with a data frame of crash data from `get_md_crash_data()` when `type = "crashes"`. `format_md_crashes_person()` formats data when `type = "persons"`. `format_md_crashes()` calls one or the other depending on the `type` parameter.

Usage

```
get_md_crash_data(
  location = NULL,
  ...,
  report_no = NULL,
  where = NULL,
  type = "crashes"
)

format_md_crash_data(data, type = "crashes", drop_code = TRUE, ...)

format_md_crashes(data)

format_md_crash_date(data, cols = c("acc_date", "acc_time"))

format_md_crashes_person(
  data,
  start_year = 2022,
  end_year = 2022,
  na_dates = c("1/1/1900", "19000101", "19001111", "19001212", "19200202")
)
```

Arguments

<code>location</code>	A <code>sf</code> or <code>sfc</code> object covering the location to return crash data.
<code>...</code>	Passed to <code>get_md_open_data()</code> for <code>get_md_crash_data()</code> or passed to specified formatting functions when used with <code>format_md_crash_data()</code> .
<code>report_no</code>	Crash report numbers. Defaults to <code>NULL</code> . Optionally used to filter results if <code>type</code> is "persons" or "vehicles".
<code>where</code>	A query parameter passed to <code>get_md_open_data()</code>

type	Supported options include "crashes" (default), "persons" (or "crashes_person"), and "vehicles" (or "crashes_vehicle").
data	Data frame with Maryland vehicular crash data; typically from get_md_crash_data
drop_code	If TRUE (default), drop all columns that end with "code"
cols	Column names to use with <code>format_md_crash_date()</code> .
start_year, end_year	Start and end year to use when checking validity of birth dates.
na_dates	Character vector of invalid dates to replace with a NA_character_ value.

Examples

```
## Not run:
if (interactive()) {
  get_md_crash_data(
    where = "(year = '2020') AND (quarter = 'Q2')",
    name_col = "county_desc",
    name = "Cecil"
  )
}

## End(Not run)
```

get_md_open_data	<i>Get data from the Maryland Open Data Portal</i>
------------------	--

Description

Wrap `getdata::get_open_data` to access the Maryland Open Data portal. The source url can be set with an option named "mapmaryland.open_data_source_url" but it defaults to the statewide open data portal <https://opendata.maryland.gov>. The token type can be set with an option named "mapmaryland.open_data_token_type" but it defaults to "MARYLAND_OPEN_DATA_API_KEY".

Usage

```
get_md_open_data(
  resource = NULL,
  type = NULL,
  crs = getOption("mapmaryland.crs", default = 3857),
  geometry = FALSE,
  token = NULL,
  ...
)
```


Arguments

resource	Resource identifier code passed to "data" parameter of <code>getdata::get_open_data</code>
type	Type of data to return. Supported options: "crashes", "road closures", "bay pollution reduction"
crs	Coordinate reference system of bounding box to return; defaults to NULL which maintains the crs of the input object.
geometry	If TRUE and coords are provided, return a sf object. Default FALSE.
token	Optional access token or API Key to pass to <code>getdata::set_access_token()</code> . The token type variable is set by <code>getOption("mapmaryland.open_data_token_type", default = "MARYLAND_OPEN_DATA_API_KEY")</code>
...	Arguments passed on to <code>getdata::get_open_data</code>
data	A data set identifier (known as a resource for Socrata) or a url for an individual dataset. If data is set to "list" and a valid source_url is provided, the function returns a list of all available resources. If data is a url, source_url must be NULL. <code>get_socrata_metadata</code> requires the data parameter.
source_url	A data source url. For Socrata, this should be the base url for the open data portal.
source_type	Data source type; defaults to "socrata" which is currently the only supported option.
select	Names of columns to return or transformed, equivalent to a SELECT in SQL. Passed to SODA \$select parameter, see https://dev.socrata.com/docs/queries/select.html for more information.
where	Condition to filter the rows to return, equivalent to WHERE in SQL. Passed to the SODA \$where parameter, see https://dev.socrata.com/docs/queries/where.html for more information.
query	A full SoQL query string, all as one parameter. Passed to the SODA \$query parameter, see https://dev.socrata.com/docs/queries/query.html for more information.
location	sf object. If multiple areas are provided, they are unioned into a single sf object using <code>sf::st_union()</code>
dist	buffer distance in units. Optional.
diag_ratio	ratio of diagonal distance of area's bounding box used as buffer distance. e.g. if the diagonal distance is 3000 meters and the "diag_ratio = 0.1" a 300 meter will be used. Ignored when dist is provided.
unit	Units for buffer. Supported options include "meter", "foot", "kilometer", and "mile", "nautical mile" Common abbreviations (e.g. "km" instead of "kilometer") are also supported. Distance in units is converted to units matching GDAL units for x; defaults to "meter"
asp	Aspect ratio of width to height as a numeric value (e.g. 0.33) or character (e.g. "1:3"). If numeric, <code>get_asp()</code> returns the same value without modification.
name, name_col	Name of column in Socrata data resource with location names (e.g. County) and name of location to return.
location_col	Name of a "location" or "point" type column in a Socrata dataset.

coords Coordinate columns for input data.frame or output sf object (if geometry is 'centroid' or 'point') Default: c("lon", "lat").
token, type Access token or API Key and token type (name used to store token in .Renvironment). A token may be required to access data from Socrata and other open data portals but can be stored as an environment variable with [set_access_token](#).
from_crs Coordinate reference system used to match the location CRS to the source data.
clean_names If TRUE, clean names provided to nm or created based on value of col using [janitor::clean_names](#). If FALSE, use names as provided.
quiet If TRUE, suppress messages when downloading data. Defaults to FALSE.
.name_repair One of "unique", "universal", or "check_unique". See [vctrs::vec_as_names\(\)](#) for the meaning of these options.

get_md_tigris	<i>Use package data or the tigris package to get Maryland data from the U.S. Census Bureau</i>
---------------	--

Description

Get package data with Maryland counties, U.S. Congressional District, or Census designated places by name or GeoID or use the tigris package to download state data.

Usage

```

get_md_tigris(
  name = NULL,
  type = "counties",
  crs = getOption("mapmaryland.crs", default = 3857),
  erase_water = FALSE,
  ...
)
  
```

Arguments

name	Name matching a value in the namensad, namensad, or geoid columns of md_counties , md_census_places , md_congressional_districts , or one of the data sets available for download with tigris; Default: NULL
type	Type of data to return, Default: "counties"; See details for supported options.
crs	coordinate reference system. Defaults to <code>getOption("mapmaryland.crs", default = 3857)</code> . This option can be set with set_mapmaryland_options() .
erase_water	If TRUE, erase any geometry intersecting with md_water ; Default: FALSE. If TRUE, and erase_data is not NULL, md_water is combined and unioned with erase_data .
...	Additional parameters passed on to tigris functions.

Details

Use mapmaryland packaged data or use tigris U.S. Census Bureau API:

Supported options that access data included with the mapmaryland package include "counties", "census places", "congressional districts", "legislative districts", and "water".

Options that access data by calling one of several tigris functions for downloading data from the U.S. Census Bureau API include "senate district", "tracts", "block groups", "blocks", "pumas", "voting districts", "zctas", "roads", "primary secondary roads", "area water", "linear water", and "landmarks".

tigris functions that do not use a "state" parameter (e.g. [tigris::coastline](#) or [tigris::rails](#)) are not supported by this function.

Value

A simple feature object matching the type provided.

 md_arcgis_index

Maryland ArcGIS REST API Services Index

Description

A non-comprehensive list of ArcGIS services maintained by public agencies, academic units, and nonprofit organizations in Maryland. Layers available at the service_url can be accessed using the [esri2sf package](#).

Usage

```
md_arcgis_index
```

Format

A data frame with 90 rows and 13 variables:

name character Source name

operator.abb character Operator abbreviation

operator character Operator name

city character City name

county character County name

state character State name

state.abb character State name abbreviation

geography character Geographic scope; Options include citywide, countywide, regional (multi-county), statewide, or regional (multistate).

source_type character Source type

notes character Notes

public logical Public data indicator
 services_url character Services URL
 hosting character Hosting type; Currently used as an indicator for ArcGIS Online hosted data with other services assumed to be self-hosted by the source or operator.

Details

Comments, additions, or corrections can be submitted using comments on this open Google Sheet: https://docs.google.com/spreadsheets/d/1c829bZdNqvbpoizu1BU_XE5jVeNNck2kHkS-smpQ52s/edit?usp=sharing

Data last updated from Google Sheet on August 22, 2023.

md_arts_districts	<i>Maryland Arts & Entertainment Districts</i>
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Description

The Maryland State Arts Council sponsors Arts & Entertainment Districts as a way to stimulate the economy and improve quality of life. This legislation enables local jurisdictions, municipalities, counties, or a combination thereof, to apply for state designations for the Arts and Entertainment Districts within their boundaries and offer tax incentives as provided by law. More information from the Maryland State Arts Council: <https://msac.org/programs/arts-entertainment-districts>

Usage

md_arts_districts

Format

A data frame with 29 rows and 12 variables:

name District name
 desc District description
 org_name Organization name
 org_url Organization website URL
 org_phone Organization phone number
 org_address Organization street address
 org_city Organization city
 org_county Organization county
 zipcode Organization zipcode
 lon Longitude
 lat Latitude
 geometry MULTIPOLYGON geometry with boundaries

Source

https://geodata.md.gov/imap/rest/services/BusinessEconomy/MD_IncentiveZones/FeatureServer/2

md_census_places	<i>Maryland Census-designated places</i>
------------------	--

Description

Census Designated Places (CDPs) in the state of Maryland downloaded using the [tigris::places](#) function.

Usage

```
md_census_places
```

Format

A data frame with 536 rows and 17 variables:

```
statefp State FIPS code for Maryland
county County name
countyfp County FIPS code
placefp CDP FIPS code
placens CDP GNIS code
geoid Unique CDP GeoID
name Place name
namelsad Place Legal/statistical area description (LSAD)
lsad Legal/statistical area description (LSAD)
classfp Class FIPS code
pcicbsa Current metropolitan/micropolitan statistical area principal city indicator
mtfcc MAF/TIGER Feature Class Code (MTFCC)
funcstat Functional status
aland Land area (square meters)
awater Water area (square meters)
intptlat Latitude of the internal point
intptlon Longitude of the internal point
geometry list COLUMN_DESCRIPTION
```

md_congressional_districts

Maryland U.S. Congressional Districts

Description

U.S. Congressional Districts boundaries downloaded from the U.S. Census Bureau with the [tigris::congressional_districts](#) function.

Usage

```
md_congressional_districts
```

Format

A data frame with 8 rows and 13 variables:

statefp 2-character state FIPS code

cd116fp 116th congressional district FIPS code

geoid GeoID

namelsad concatenated variable with geographic area name and legal/statistical area description (LSAD)

lsad Legal/statistical area description (LSAD)

cdsessn Congressional session code

mtfcc MAF/TIGER Feature Class Code (MTFCC)

funcstat functional status

aland land area (square meters)

awater water area (square meters)

intptlat latitude of the internal point

intptlon longitude of the internal point

label Congressional District label

name Congressional District name

geometry Multipolygon with district boundary

md_counties	<i>Maryland Counties (boundaries)</i>
-------------	---------------------------------------

Description

County boundaries downloaded from the U.S. Census Bureau with the `tigris::counties` function. Counties in the Baltimore–Columbia–Towson Metropolitan Statistical Area (MSA) include Baltimore City, Baltimore County, Carroll County, Anne Arundel County, Howard County, Queen Anne’s County, and Harford County. Counties in the DC-VA-MD-WV Metropolitan Statistical Area (MSA) include Montgomery, Frederick, Prince George’s, Charles, and Calvert counties. Regions are based on this resource from Visit Maryland <https://www.visitmaryland.org/info/maryland-regions>

Usage

```
md_counties
```

Format

A data frame with 24 rows and 18 variables:

```
statefp State FIPS code for Maryland
countyfp County FIPS code
countyns County GNIS code
geoid Unique county FIPS code (concatenation of state and county FIPS codes)
name County name
namelsad Concatenated variable length geographic area name and legal/statistical area description (LSAD)
lsad Legal/statistical area description (LSAD)
classfp FIPS class code
mtfcc MAF/TIGER Feature Class Code (MTFCC)
csafp Combined statistical area code
cbsafp Metropolitan statistical area/micropolitan statistical area code
metdivfp Metropolitan division code
funcstat Functional status
aland Land area (square meters)
awater Water area (square meters)
intptlat Latitude of the internal point
intptlon Longitude of the internal point
region Region of the state
geometry Multipolygon with the county boundary
```

Source

<https://www.census.gov/geo/maps-data/data/tiger-line.html>

md_counties_detailed *Maryland Counties (detailed boundaries)*

Description

Detailed boundaries for Maryland counties from Maryland iMap.

Usage

md_counties_detailed

Format

A data frame with 24 rows and 6 variables:

statefp State FIPS code for Maryland

countyfp County FIPS code

name County name

geoid Unique county GeoID (concatenation of state and county FIPS codes)

namelsad Concatenated variable length geographic area name and legal/statistical area description (LSAD)

geometry Multipolygon with the county boundary

md_house_districts_2022

Maryland House of Delegates Districts (2022)

Description

From the [Maryland Department of Planning](#): "The Maryland General Assembly, under the Maryland Constitution, adopted new state legislative districts on February 1, 2022, based on the changes in population reported in the 2020 U.S. Census and adjusted in accordance with Maryland's *No Representation Without Population Act* of 2010."

Usage

md_house_districts_2022

Format

A data frame with 71 rows and 6 variables:

name District name
 id District number
 label District label
 members Number of Delegates for district
 pop Population from 2020 U.S. Census
 geometry District boundary geometry

Source

[2022 Maryland Legislative Districts](#)

md_imap_index	<i>Maryland iMap Folder/Service Index</i>
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Description

Created using esriIndex function (in process of being developed for esri2sf package). Updated August 22, 2023.

Usage

md_imap_index

Format

A data frame with 1,505 rows and 16 variables:

name character Name
 nm character Name with snake case
 type character Service/layer type
 url character Folder/service/layer URL
 urlType character Index type
 folderPath Folder path
 serviceName character Service/layer type
 serviceType character Service/layer type
 id integer Layer ID number
 parentLayerId integer Parent layer ID number
 defaultVisibility logical Layer default visibility
 minScale double Minimum scale

maxScale integer Maximum scale
 geometryType character Geometry type
 subLayerIds list Sublayer ID numbers
 supportsDynamicLegends logical Supports dynamic legends

md_mpos *Maryland Metropolitan Planning Organizations (boundaries)*

Description

Data from https://geodata.md.gov/imap/rest/services/BusinessEconomy/MD_IncentiveZones/FeatureServer/14

Usage

md_mpos

Format

A data frame with 7 rows and 6 variables:

geoid GeoID
 name MPO Name
 abb MPO abbreviation or acronym
 url MPO website url
 states States (multiple states separated by semi-colons)
 geometry MULTIPOLYGON geometry for boundaries

md_open_data_index *Maryland Open Data Portal Index*

Description

Public resources from the Maryland Open Data Portal excluding resources cross-listed from Maryland iMap.

Usage

md_open_data_index

Format

A data frame with 737 rows and 11 variables:

name Resource name
 nm Resource name (snake case)
 resource Resource identifier
 description Description
 url Resource URL
 issued Date issued
 modified Date modified
 keyword list of keywords
 identifier API identifier
 theme Data theme
 license Data license

 md_schools

Maryland K-12 Schools (Public and Charter Schools)

Description

Combined iMap FeatureLayer for traditional public schools and charter schools. The school number previously included in this dataset was incomplete due to the iMap data using a different school name than the MSDE data for a little less than half of schools in the state. As of February 2023, the school number column has been removed to ensure the data is accurate and to avoid confusion. For charter schools, the school_type column has been added based on the grade range. Data based on iMap data layers as of 2023 February 10 for public schools https://geodata.md.gov/imap/rest/services/Education/MD_EducationFacilities/FeatureServer/5 and charter schools https://geodata.md.gov/imap/rest/services/Education/MD_EducationFacilities/FeatureServer/6

Usage

md_schools

Format

A data frame with 1,427 rows and 13 variables:

school_name School name
 address Street address
 city City name
 state State
 zip Zip code

grades Grades
school_type School type
grade_band Grade band
psc_number PSC number
lss_number Local school system number as integer
county County name
management_type Management type
geometry POINT geometry

md_senate_districts_2022

Maryland Senate Districts (2022)

Description

From the [Maryland Department of Planning](#): "The Maryland General Assembly, under the Maryland Constitution, adopted new state legislative districts on February 1, 2022, based on the changes in population reported in the 2020 U.S. Census and adjusted in accordance with Maryland's *No Representation Without Population Act* of 2010."

Usage

md_senate_districts_2022

Format

A data frame with 47 rows and 5 variables:

name District name
id District number
label District label
pop Population from 2020 U.S. Census
geometry District boundary geometry

Source

[2022 Maryland Legislative Districts](#)

md_water	<i>Maryland Water (area)</i>
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Description

Detailed multipolygon data for streams, lakes, and other water in the state of Maryland downloaded from the U.S. Census Bureau with the `tigris::area_water` function.

Usage

```
md_water
```

Format

A data frame with 14,970 rows and 9 variables:

```
ansicode character ANSI code
hydroid character Hydroid
fullname character Full name
mtfcc character MAF/TIGER Feature Class Code
aland double Land area
awater double Water area
intptlat character Interior latitude point
intptlon character Interior longitude point
geometry list Multipolygon geometry
```

Source

<https://data.imap.maryland.gov/datasets/maryland-waterbodies-rivers-and-streams-detailed>

md_zctas	<i>Maryland Zip Code Tabulation Areas (ZCTA) - 2020</i>
----------	---

Description

ZIP Code Tabulation Areas (ZCTAs) are generalized areal representations of United States Postal Service (USPS) ZIP Code service areas downloaded using the `tigris::zctas()` function.

Usage

```
md_zctas
```

Format

A data frame with 478 rows and 10 variables:

zcta5ce20 ZCTA identifier
 geoid20 ZCTA GeoID
 classfp20 FIPS class code
 mtfcc20 MAF/TIGER Feature Class Code (MTFCC)
 funcstat20 Functional status
 aland20 Land area (square meters)
 awater20 Water area (square meters)
 intptlat20 Latitude of the internal point
 intptlon20 Longitude of the internal point
 geometry Multipolygon with the ZCTA boundary

Source

<https://www.census.gov/programs-surveys/geography/guidance/geo-areas/zctas.html>

md_zoning_info

Maryland Zoning District information

Description

An incomplete index of zoning district names and categories for Maryland counties and local jurisdictions. Updated based on this Google Sheet: <https://docs.google.com/spreadsheets/d/1qu8s3W9tvtMPvqLNpzrxqybqPSnl67aBBItSWRgbdto/edit?usp=sharing>

Usage

md_zoning_info

Format

A data frame with 112 rows and 15 variables:

zoning Zoning (no hyphenation)
 zoning_alt Zoning (hyphenation)
 name Zoning district name
 category Zoning district category
 district_type Zoning district type
 jurisdiction Zoning jurisdiction
 county County
 description Description

year Year active
 lot_size_restriction Numeric value of lot size restriction (if provided)
 lot_size_units Units for lot size restriction value
 article Article (for reference to code or ordinance)
 page_num Page number (for reference to code or ordinance)
 overlay Overlay district
 repealed Repealed zoning district name/type

msde_enrollment *Maryland Public School Enrollment (SY 2003-2022)*

Description

Enrollment data from the Maryland State Department of Education (MSDE). This data is copied from the [marylandedu](#) R data package. Refer to that package for more detailed documentation. Variable definitions are based on the [definitions from the MSDE website](#).

Usage

msde_enrollment

Format

A data frame with 219,741 rows and 10 variables:

year School or academic year for enrollment count, e.g. 2019 data is from the start of the 2019-2020 school year.
 school_number School number as integer (0 indicates all schools)
 school_name School name
 enrolled_count Number of students registered to attend the school at the start of the year in the grade or grade range as integer. Typically enrollment count is as of September 30.
 grade Grades from Prekindergarden (PK) to Grade 12
 grade_range all elementary school Grades, all middle school grades, all high school grades, or all grades (total enrollment). May also be used as a label for grade.
 race Race/ethnicity. Enrollment by race/ethnicity is only available across all grades for years since 2020. "All" is used for data prior to 2020.
 date_created Date record created.
 lss_number Local school system (LSS) number as integer. NA is used in place of a LSS number for statewide data. Older LEA numbers are combined with LSS numbers in this dataset.
 lss_name Local school system (LSS) names (typically same as county name). "State" is used in place of a LSS name for statewide data. Older LEA names are combined with LSS names in this dataset.

Source

[MSDE Data Downloads](#)

real_property_cols	<i>Maryland Real Property Assessments (fields reference)</i>
--------------------	--

Description

Maryland Real Property Assessments (fields reference)

Usage

```
real_property_cols
```

Format

A data frame with 223 rows and 6 variables:

field_order Field order

field_name Field name

data_type Data type

mdp_field_name Maryland Department of Planning (MDP) Field name

api_field_name Maryland Open Data portal API field name

sdatt_field_number State Department of Assessments and Taxation (SDAT) field number

Source

<https://opendata.maryland.gov/Business-and-Economy/Maryland-Real-Property-Assessments-Fields-Reference/w8th-47fz/data>

```
set_mapmaryland_options
```

Set options for mapmaryland package

Description

Currently only used for mapmaryland.crs

Usage

```
set_mapmaryland_options(crs = NULL, overwrite = TRUE)
```

Arguments

crs Coordinate reference system to set, e.g. "crs = 2804" to set "mapmaryland.crs" to 2804.

overwrite If TRUE, overwrite any existing option value.

us_states_near_md	<i>U.S. States (near Maryland)</i>
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Description

U.S. states bordering Maryland or in close proximity.

Usage

us_states_near_md

Format

A data frame with 7 rows and 15 variables:

region character Region ID

division character Division ID

statefp 2-character state FIPS code

statens character State National Standard (NS) identifier using U.S. Geological Survey's Geographic Names Information System (GNIS) code

geoid character GeoID

stusps character State U.S. Postal Service abbreviation

name character State name

lsad Legal/statistical area description (LSAD)

mtfcc MAF/TIGER Feature Class Code (MTFCC)

funcstat functional status

aland land area (square meters)

awater water area (square meters)

intptlat latitude of the internal point

intptlon longitude of the internal point

geometry list Geometry

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