Package 'mopac'

April 28, 2021

Type Package

Title Collection of Datasets Pertaining to Loop 1 ``Mopac''

Version 0.1.0

Description Provides real & simulated datasets containing time-series traffic observations
and additional information pertaining to Loop 1 ``Mopac'' located in Austin, Texas.

Encoding UTF-8

LazyData true

Depends R (>= 2.10)

Suggests dplyr, lubridate, tibble, readr, hms

URL https://github.com/sccmckenzie/mopac

BugReports https://github.com/sccmckenzie/mopac/issues

RoxygenNote 7.1.1

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NeedsCompilation no

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Repository CRAN

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R topics documented:

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exits   *Exit information for Mopac.*

Description

Accurate as of 2021-03-26. Provides basic details for all exits along Loop 1 "Mopac" in Austin, Texas. Exits are unnumbered.

Usage

```
exits
```

Format

A tibble with 32 rows and 4 variables:

mi distance from Loop 1 southern terminus, in miles

km distance from Loop 1 southern terminus, in kilometers

exit main road accessed by exit

notes additional information

Source

Scraped from https://en.wikipedia.org/wiki/Texas_State_Highway_Loop_1

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express   *Mopac Express Lane Records*

Description

Simulated observations of vehicles entering Mopac express lane at RM 2222 / Far West Blvd. Vehicle make/model/color frequencies are based on actual data from rush_hour. Traffic density inferred from ad hoc sampling and City of Austin Traffic Counts.

Usage

```
express
```

Format

A tibble with 13032 rows and 6 variables:

direction north: Far West entry point heading to Parmer, **south**: RM 2222 heading to Cesar Chavez

time time of day

plate vehicle license plate

make vehicle make

model vehicle model

color vehicle color

Source

To see how this dataset was generated, visit https://sccm.io/post/mopac-dataset/

For City of Austin Traffic Counts, visit https://data.austintexas.gov/Transportation-and-Mobility/Camera-Traffic-Counts/sh59-i6y9

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rates   *Mopac Express Lane Rates*

Description

Express Lane Rates for Loop 1 "Mopac" in Austin, Texas. Rates correspond to RM 2222 / Far West entry points with pre-COVID weekday traffic. Recommend loading readr package so that `time` displays correctly as **hms**.

Usage

```
rates
```

Format

A tibble with 25 rows and 3 variables:

direction north: Far West entry point heading to Parmer, **south**: RM 2222 heading to Cesar Chavez

time time of day

rate TxTag rate in USD

Source

Rates obtained from Central Texas Regional Mobility Authority. https://www.mobilityauthority.com/pay-your-toll/rates

rush_hour	*Sample of vehicles collected from Loop 1 "Mopac" in Austin, Texas.*

Description

Observations sampled in 2.5 minute intervals throughout week of 17 May 2020. Note that although intervals fall within normal "rush hour" timeframe, traffic density is lighter than normal due to COVID.

Usage

```
rush_hour
```

Format

A tibble with 962 rows and 7 variables:

day day of the week when observations were recorded

time observation timestamp

commercial indicates whether vehicle is used for commercial purposes

color vehicle color

type vehicle type

make vehicle make

model vehicle model

Source

Real observations collected from northbound Mopac at Far West Blvd.

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