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
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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

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
rates

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

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
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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