

Minneapolis Safety In Numbers Study Data Documentation

Prepared by
Brendan Murphy

Accessibility Observatory
Center for Transportation Studies
University of Minnesota

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1 Overview

This document describes the raw datasources released as part of the “Safety in Numbers? Accessibility, Traffic, and Safety of Non-motorized Travelers” Roadway Safety Institute project. The data contain Turning Movement Counts (TMCs) at intersections from 1994 - 2013, Average Annual Daily Traffic (AADT) data for Minneapolis street links (most recently updated in 2014), and public crash records from 2000-2013.

The following sections describe the format, naming, and content of the data files.

2 Turning Movement Counts Data Field Definitions

The TMC data are provided in a CSV file, entitled, “Minneapolis_TMC_1994-2013.csv.” The file contains individual records for each TMC included.

TMC Data Field Definitions

Field Position	Field Name	Type	Definition
1	agency_id	string	ID of managing agency
2	intid	string	Intersection ID
3	date	date	Date TMC was conducted
4	st_time	time	TMC start time
5	import_timestamp	date	Date of TMC import into Minneapolis database
6-53	[TMC code]	string	Individually-coded TMC totals
54	owner_id	string	Manager of record data
55	vehicle_type	string	Type of vehicle counted—either “car” or “truck”

The TMC codes consist of an approach direction prefix and a suffix. The prefixes are:

- nb: northbound
- sb: southbound
- eb: eastbound
- wb: westbound
- ne: northeast
- nw: northwest
- se: southeast

- sw: southwest

The suffixes are:

- l: left-turning
- t: thru
- r: right-turning
- pd: pedestrian
- l2: left-turning, second turn lane
- r2: right-turning, second turn lane

For the aforementioned Roadway Safety Institute study, only TMC data pertaining to pedestrians (fields ending in “pd”) were used.

3 AADT Data Field Definitions

The AADT data are provided in a CSV file, entitled, “Minneapolis_AADT_latest_(2014).csv” The most recent date of AADT measurement for street segments ranges from 2007 to 2014. The file contains individual records for each street segment measured.

AADT Data Field Definitions

Field Position	Field Name	Type	Definition
1	Loc ID	string	Street segment ID
2	County	string	Street segment county
3	On_road	string	Road on which street segment lay
4	From_road	string	Name of first link-bounding crossroad
5	To_road	string	Name of second link-bounding crossroad
6	Approach	string	Approach type (typically "Between")
7	At_link	string	Intersection of approach
8	Dir	string	Directionality (1-way or 2-way)
9	Latitude	real	Latitude of AADT measurement point
10	Longitude	real	Longitude of AADT measurement point
11	Latest	int	Most recent AADT measurement
12	Latest Date	date	Date of most recent AADT measurement

4 Crash Reports Data Field Definitions

The crash reports data are provided in a CSV file, entitled, "Minneapolis_crashes_2000-2013.csv." Crashes reported to police between 2000-2013 are included, and each record pertains to a unique crash. The field names are well-named and self-explanatory, though it is noted that the field `IntersectionID` is not the same as the `intid` field in the TMC data file.

5 Integrating the Datasources

In order to leverage the aforementioned datasources together in combination, the user must geocode the data. There are no ID fields common to the datasets; the user is advised to develop a methodology to properly combine TMC counts at intersections, AADT values on street links, and crash reports (which can be associated with street links or intersections).