

Crash data guide

Introduction

DRCOG requests crash data from the Colorado Department of Transportation and processes the data into a regional product. Records that are considered on-system crashes (on CDOT-maintained roads) are geocoded by CDOT and not modified by DRCOG. Off-system records are geocoded by DRCOG using Esri StreetMap Premium geolocator.

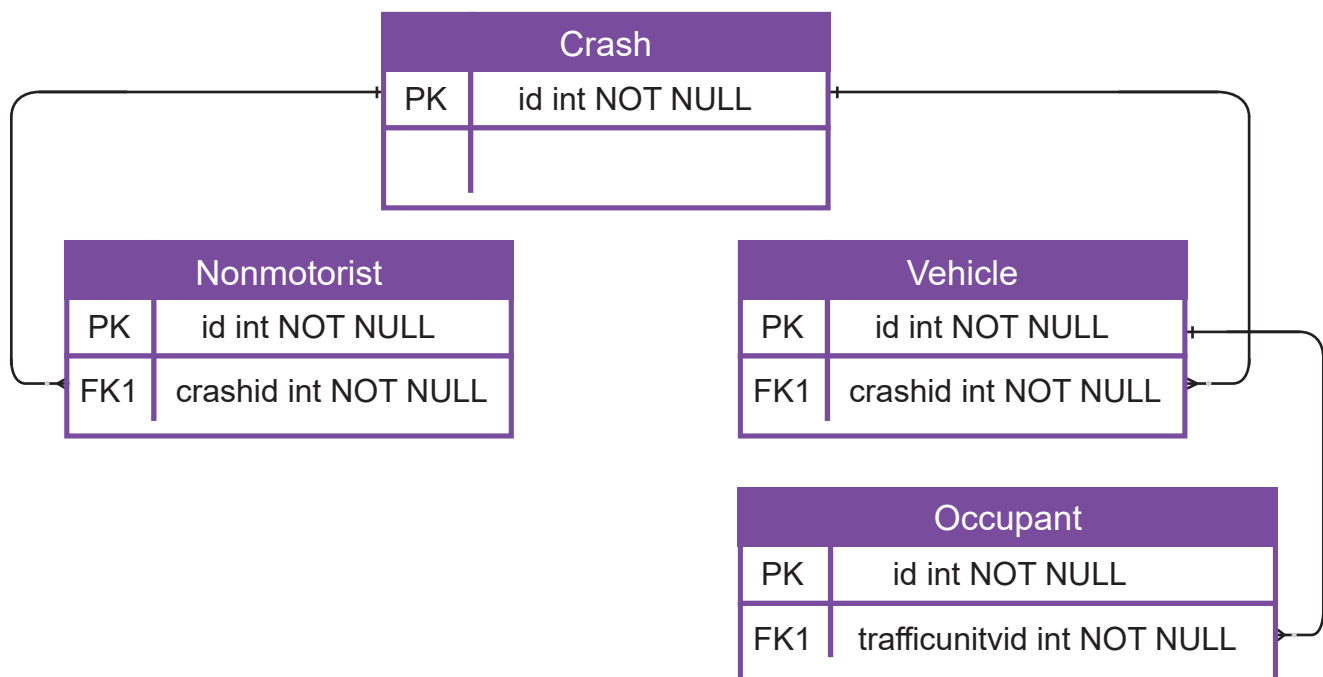
High priority records (nonmotorist, killed and serious injury crashes) are checked for spatial accuracy and corrected. Historical data (pre-2020) was delivered as a single flat-file and produced a single shapefile with all attribution. As of 2020, the CDOT data schema has been updated to reflect the one-to-many relationship that exists between a crash and vehicle, occupant and nonmotorist records. Additionally, the table schema has been updated to the DR 3447 State of Colorado Traffic Crash Report form.

Data

The data product from DRCOG is a file geodatabase with a main crash table and three related tables (vehicle, occupant and nonmotorist).

- Crash: Main table. Information about the actual crash, such as date, location, narrative, etc.
- Vehicle: Ancillary table. Information about each vehicle involved in a crash, such as vehicle type, make, model, etc.
- Occupant: Ancillary table. Information about each occupant of a vehicle involved in a crash, such as age, position in vehicle and injury severity.
- Nonmotorist: Ancillary table. Information about each nonmotorist involved in a crash, such as safety equipment, injury severity and movement prior to impact.

Relationship classes are established in the geodatabase using the following keys:



Using the data

DRCOG has added several fields to the main crash table, flagged as DRCOG-created fields in the data dictionary. They are calculated using fields from the original CDOT data and are meant to be used as a quick way to calculate high-level statistics including the number of people seriously injured, fatal crashes and pedestrian- or bicycle-involved crashes.

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