Project Data Notes:

Source: US Department of Transportation, NHTSA (National Highway Traffic Safety Administration.)

Data domain: FARS (Fatality Analysis Reporting System).

Data Landscape:



Project focus:

Accident – Crash Level.

Some high level data is brought in from other related entities.

Supporting date: State, City, County keys and description from GSA publication.



Accident Data dictionary (for the project use)

1. State: 2 digit key, long name, two digit state code
2. ST\_CASE: Unique accident case number (concatenation of two char of state code + four char of unique case number)
3. VE\_TOTAL:



1. VE\_FORMs: 001-999 Number of Vehicle Forms
2. PVH\_INVL: **Definition:** This data element counts the number of parked and working vehicles involved in the crash.
3. PEDS: 00-99 Number of Persons Not in Motor Vehicles (Pedestrians)
4. PERSONS: This data element counts the number of Person Level (Motor Vehicle Occupant) Forms that are applicable to this case (i.e., occupants).

Values : 000-999 Number of Person Forms

***1982-Later:*** In the case of a hit-and-run crash, a Vehicle-Driver form and a Person Level form for the driver are filled out. When the information about the vehicle-driver or person is not known -- which is often the case with hit-and-runs -- the values are coded as unknown.

Example: Between 1982 and 1994, the number of drivers coded with unknown sex fluctuated between 700 and 1,000, approximately 1.5 percent of all drivers involved in fatal crashes. Reviewing the 768 persons in the 1994 Annual Report file, all were drivers and 90 percent of them were involved in hit-and-run crashes.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| COUNTY | CITY | DAY | MONTH | YEAR | DAY\_WEEK | HOUR | MINUTE |

County, city keys.

Add State, County, city, day of the week descriptions.

1. NHS – accident section on National Highway System or not.
2. Trafficway -
3. Route – route signs where accident occurred Interstate, US highway et.
4. **HARM\_EV – first harmful event key**
5. **First\_Crash\_event – This field gives crash description.**

**vehicle turned over, collided with another vehicle, mailbox, tress, etc.**

**this data could be used in conjunction with the location information. Are there any related co-ordinates – e.g. does specific junction have similar type of collision? To determine e.g. if signs need to be improved? If road needs fixing?**

1. Light\_condition
2. Weather condition
3. FATALS - # of Fatalities
4. DRUNK\_DR - # of Drunk Drivers involved in Fatal crashes

**As for the reports:**

* There is enough data to get summarized reports –
* Some derived – “due to”s can be achieved by looking at fatality and accidents due to “drunk” drivers, “due to” weather conditions, light conditions etc.
* Some data exploratory measures – like in #12 above?
* Any controls on date/hour/interstate route etc and # of fatalities, # of collisions etc.