Occupant Protection

Crashes 2014 to 2019 Stops 2014 to 2019



Sent to: Maryland Highway Safety Office

Prepared by:
Washington College GIS Program
(410) 810-5034
210 S Cross Street, Suite #101
Chestertown, Maryland 21620
wc_mhso@washcoll.edu
https:\\raven.washcoll.edu



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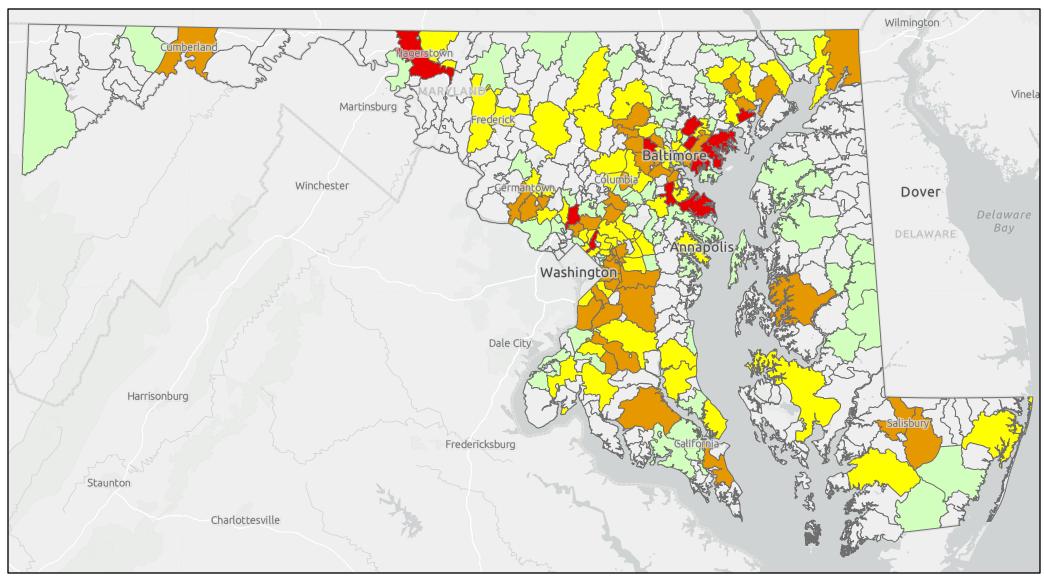
Maryland Highway







Maryland Unrestrained Occupant Total Count of Stops in Home Zip Code Tabulation Areas 2014 to 2019



** Not all home addresses were able to be geocoded

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Sources: State Highway Administration, Washington College GIS Program
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25 50 75 100

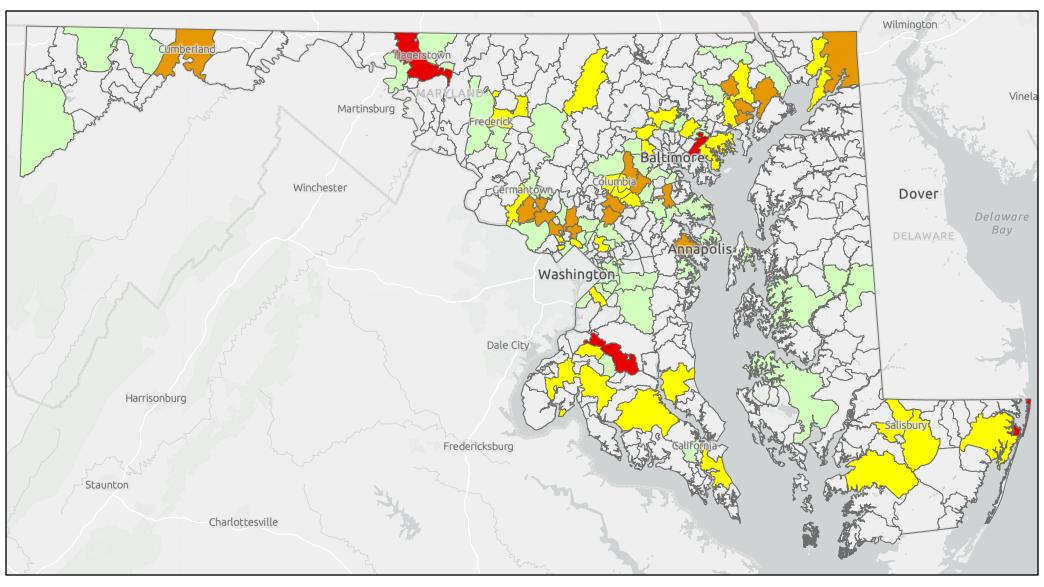
Number of Stops

0 to 250 251 to 500 501 to 1,000

1,001 to 1,500

1,501 to 2,600

Maryland Unrestrained Occupant Total Count of Stops in Offense Location Zip Code Tabulation Areas 2014 to 2019





Maryland

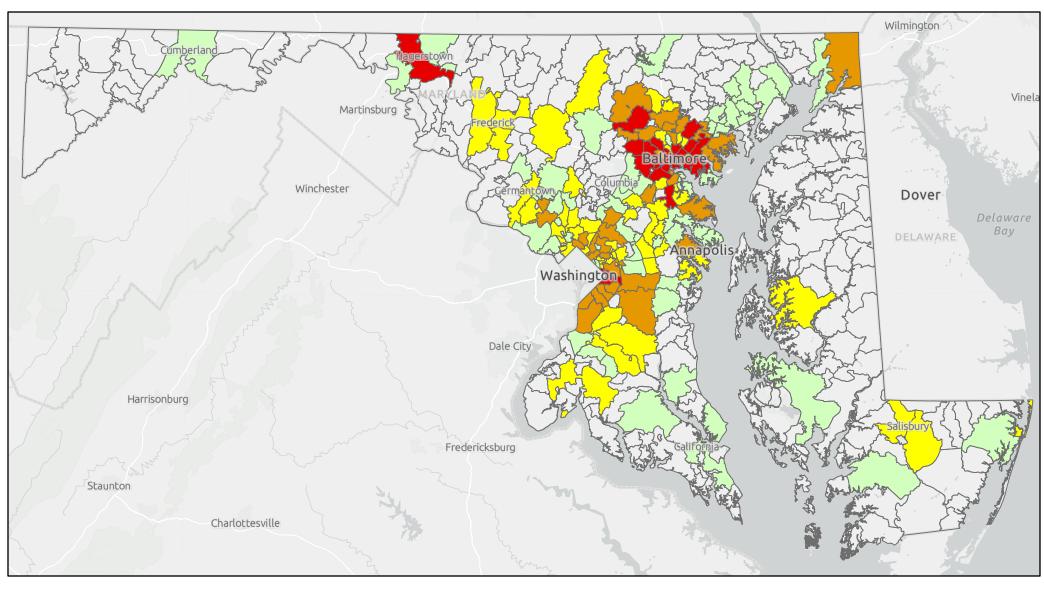


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Number of Stops 0 to 250 251 to 500 501 to 1,000 1,001 to 2,000 2,001 to 3,000

Maryland Unrestrained Occupant Total Count of Crashes in Crash Location Zip Code Tabulation Areas 2014 to 2019







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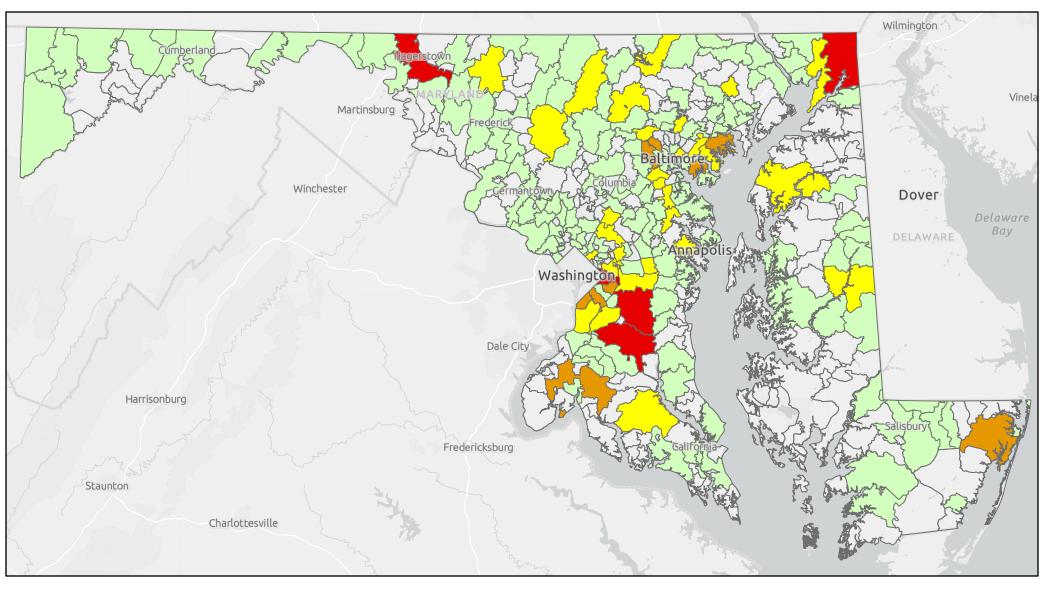
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Number of Crashes 0 to 100 100 to 250 251 to 500 501 to 1,000 1,001 to 2,000

Maryland Unrestrained Occupant Fatal Count of Crashes in Crash Location Zip Code Tabulation Areas 2014 to 2019





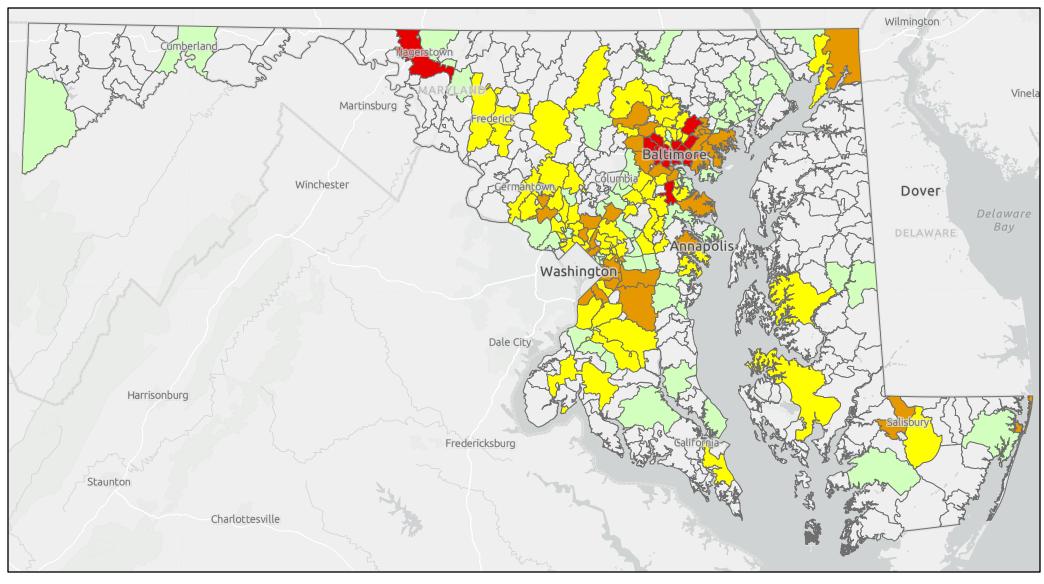
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Maryland Unrestrained Occupant Injury Count of Crashes in Crash Location Zip Code Tabulation Areas 2014 to 2019





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25 50 75 100

Appendix

Unrestrained time range of focus in the study:

- · Citations: Jan 1st, 2014 to Dec 31st, 2019
- · Crashes: Jan 1st, 2014 to Dec 31st, 2019

Occupant Protection Queries:

Crashes:

Seatbelt_Code IN ('01', '12', '31', '88', '99') And (Body_Type_Vehicle_1 NOT IN ('01', '19')

Or Body_Type_Vehicle_2 NOT IN ('01', '19'))

Stops:

chargeCode IN ('TA 22-412.3(C2)', 'TA 22-412.3(B)', 'TA 22-412.2(D)', 'TA 22-412.2(E)', 'TA 22-412.2(G)', 'TA 22-412.2(G

'TA 22-412.3(C3)')

Charge Codes (Stops):

TA 22-412.2(D): Failing to secure child under age of 8 in child safety seat when transporting in motor vehicle

TA 22-412.2(E): Fail to transport child under age 16 in (child safety seat per instructions, a seat belt)

TA 22-412.2(G): Using a (child safety seat, seat belt) to (restrain, seat, position) more than one individual

TA 22-412.3(B): Operating motor vehicle with (operator, occupant under age 16) not restrained by (seat belt,

child safety seat)

TA 22-412.3(C2): Passenger age 16 or more in outboard front seat of motor vehicle without seat belt restraint

TA 22-412.3(C3): Passenger age 16 or more in rear seat of motor vehicle without seat belt restraint (Secondary Action)

Unrestrained Stops: 198,154 records

Unrestrained Home Address: 156,513 records geocoded

Unrestrained Citations (some stops resulted in multiple citations): 226,010 records

Summarize within was used to get a point count of citations within each Zip Code Tabulation area for total stop counts by zip code

- · Maryland Occupant Protection Total Count of Stops in Home Zip Code Tabulation Areas 2014 to 2019
- · Maryland Occupant Protection Total Count of Stops in Offense Location Zip Code Tabulation Areas 2014 to 2019
- · Maryland Occupant Protection Total Count of Crashes in Crash Location Zip Code Tabulation Areas 2014 to 2018
- · Maryland Unrestrained Occupant Fatal Count of Crashes in Crash Location Zip Code Tabulation Areas 2014 to 2019 (Fatal Injury counts only)
- · Maryland Unrestrained Occupant Injury Count of Crashes in Crash Location Zip Code Tabulation Areas 2014 to 2019 (Sum of all Injury counts: A-Suspected Serious Injury, B-Suspected Minor Injury, and C-Possible Injury)

Addresses were geocoded from the address listed in the citation. Out of 198,154 Total Stops, 156, 513 (~79%) of addresses were able to be geocoded, while 41, 641 (~21%) were not able to be geocoded for use in the analysis.



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