HIGHWAY SAFETY RESEARCH GROUP

Contributing to LA’s Green Reporting

Sara Graham & Jeff Dickey
Overview

• About the HSRG

• Electronic Reporting

• Collaboration

• Location

• On-going – Data Quality
About the HSRG

• HSRG formed in 2002 to collect, enter, and store Louisiana’s crash data – in partnership with the LA DOTD

• 3 full-time staff members in 2004

• HSRG released LACRASH software in 2005 to assist agencies in electronic reporting

• 16 full-time positions in 2018
  • Still collect, enter, and store
  • Data Quality, GIS, Infrastructure, Data Analysis, Business Analytics, Research
Electronic Reporting

Number of Agencies Using LACRASH

Years: 2006 to 2018

Number of Agencies: 0 to 250
Electronic Reporting

Reports Received Paper vs. Electronically

- ELECTRONIC
- PAPER
<table>
<thead>
<tr>
<th>YEAR</th>
<th>WITHIN 30 DAYS</th>
<th>WITHIN 60 DAYS</th>
<th>WITHIN 90 DAYS</th>
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Electronic Reporting

- Increased the number of identified CMV crashes
  - 2001 – 2,047
  - 2004 – 2,628
  - 2005 – 4,260
  - 2017 – 4,030
Collaboration

- HSRG staff worked with LA DPS and FMCSA to clarify what should be reported and when

- Conducted continuous testing to reduce errors on reportable CMV crashes

- Worked closely with FARS team to match MCMIS and FARS numbers
  - Research differences
  - Make corrections to either database, when needed
Location

- HSRG began locating crashes in 2010
- All local road crashes and a subset of problematic state road crashes
- Assumed responsibility for all crashes in 2017
- 170,000 crashes per year
Location

- Automatically locate and validate 60% of crashes
- Manually locate remaining crashes using specially trained undergraduate data entry technicians
Location

• Locate 90-95% of crashes
• Assign control section and logmile
• Link to roadway data for analysis
Location – Common Issues

• No latitude/longitude
• Wrong latitude/longitude
• Missing/misspelled street names
• Conflict between data and narrative
A Tale of Two Cities?
Or is something wrong?
Pattern does not match city streets

Degree minute seconds recorded as decimal degrees
Crashes in Lake Pontchartrain
Correlation of Seat Belt Use by Zip Code
Fatal Crash Rate & Distance to Hospital (Z)
On-going Data Quality

- Regularly monitor crashes for completeness of driver and vehicle fields required for SafetyNet
- Reports with missing data are pulled and investigated weekly
- Identifies agencies regularly reporting incomplete data to make contact and offer training
THANK YOU

Geaux Tigers

(Beat Bama)