



CENTER *for* ADVANCED
PUBLIC SAFETY

Using CARE Online

Introduction to the CARE Safety Portal

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ALABAMA

AGENDA

- About myself
- Critical Analysis Reporting Environment (CARE)
 - ✓ CARE Tools
 - ✓ CARE Data
- CARE Safety Portal Tools
 - ✓ A look at recent data
 - Urban and Rural Fatal crashes
 - ✓ Map feature
- Crash Mapping Improvements

ABOUT MYSELF



- Joined the Center for Advanced Public Safety (CAPS) in 2009
 - ✓ Deployment of the State's eCrash software
 - ✓ State Highway Safety Plan (HSP) and the State's Crash Fact Book
 - ✓ Highway Safety Improvement Plan (HSIP) and Strategic Highway Safety Plan (SHSP)
 - ✓ High Risk Rural Roads (HRRR)
- 10 years working with AL crash data

CARE

- Critical Analysis Reporting Environment
 - ✓ Data exploration tool
 - Frequencies – Single variable summary
 - Crosstabs – Two variable summary
 - ✓ Data visualizations
 - Dashboards
 - Location Analysis
 - ❖ Hotspots

CARE DATA

- CARE Crash Data is built using periodic uploads of data.
 - ✓ Paper Data
 - ✓ Electronic Data - eCrash
- Data has to be structured correctly to optimize data tools
 - ✓ Calculated variables and post processing of location (GPS, Link-Node, Route and Milepost) details.
 - ✓ Create sets of predetermined system filters

GETTING CRASH DATA

- Paper reports are sent to ALEA where the data is entered manually and transmitted to CAPS to create new datasets.
 - ✓ NO VALIDATION for paper crash reports
- Electronic eCrash reports are sent to ALEA and transferred to CAPS as they are approved.
 - ✓ Hundreds of validations to help office enter correct data.
- Datasets are built yearly (March closeout)

GETTING CRASH DATA

- eCrash started in July of 2009.
- It has become the main form of entry since 2013.
- The last paper report was transmitted in 2017
 - ✓ Transmitting the last paper report is what helped put all crash data online
 - No more waiting months to get paper crashes entered

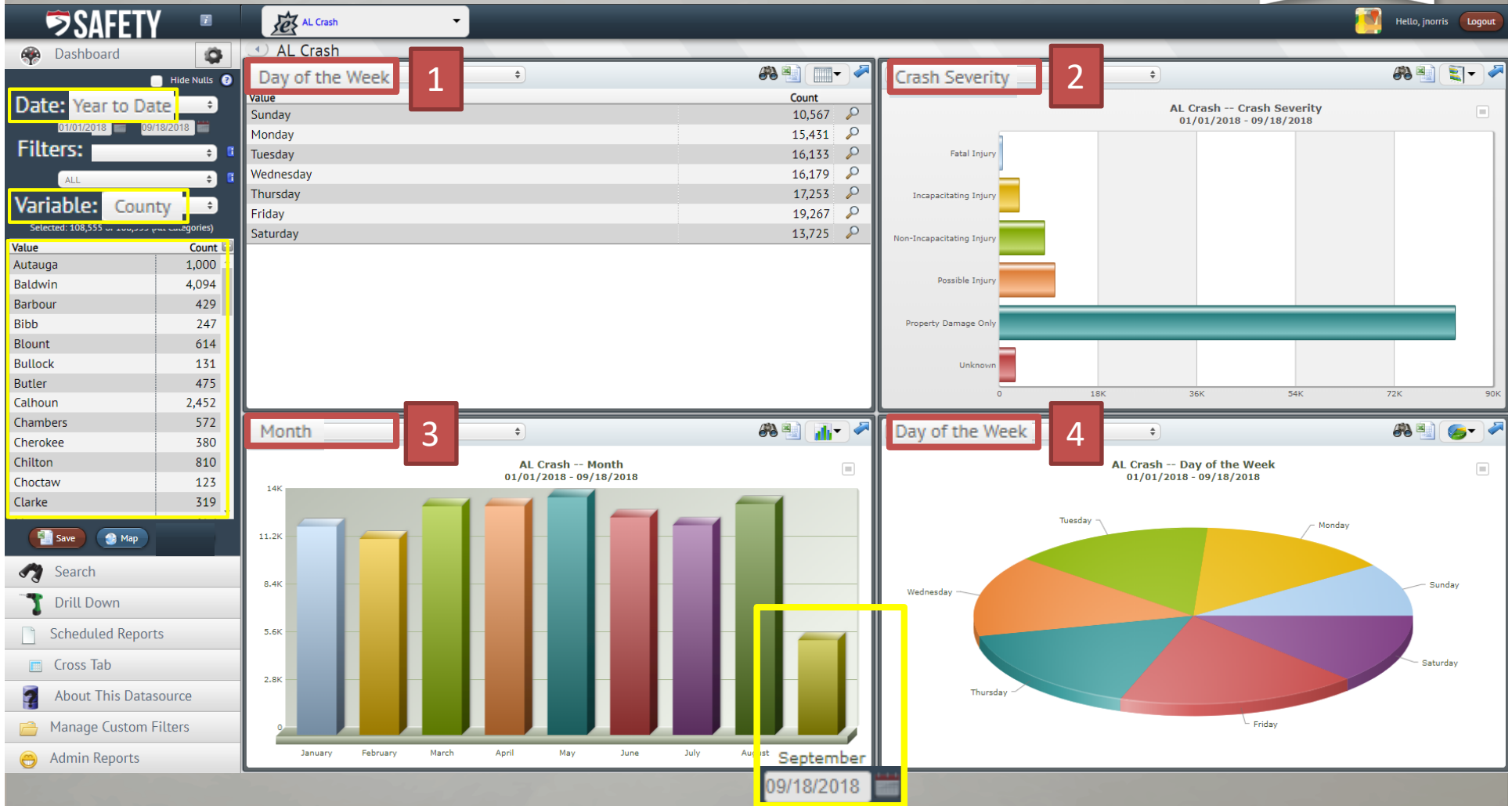
SAFETY PORTAL

- Same CARE internals:
 - ✓ Frequencies
 - ✓ Crosstabs
 - ✓ Mapping
- Same Data Structure and post processing of location details
- Same Data transfer protocol
- Dataset is updated daily


SAFETY PORTAL DATA

- Includes previous paper
- New eCrash records uploaded daily
 - ✓ Monitor Crashes on a Daily, Weekly, Monthly basis
 - ✓ See where we are year-to-date
- Reporting lag
 - ✓ Two weeks allows us to receive 99.ish% of crashes
- Hosts most recent 5 years plus current Year

SAFETY PORTAL DASHBOARD



SAFETY PORTAL DASHBOARD



Dashboard

Hide Nulls

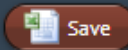
Date: Year to Date
01/01/2018 09/18/2018

Filters: ALL
ALL

Variable: Month

Selected: 5,547 of 108,555 (1 Category)

| Value | Count |
|-----------|--------|
| January | 12,209 |
| February | 11,482 |
| March | 13,401 |
| April | 13,412 |
| May | 13,928 |
| June | 12,752 |
| July | 12,290 |
| August | 13,534 |
| September | 5,547 |

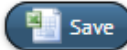


Category Details
x

AL Crash (01/01/2018 - 09/18/2018)
3 columns selected

Filter - Month: September Day of Month: 17

| DateTime | Crash Severity | Primary Contributing Cir... |
|-----------------------|---------------------------|---------------------------------|
| 9/17/2018 12:30:00 AM | Property Damage Only | Over Speed Limit |
| 9/17/2018 1:40:00 AM | Property Damage Only | E Fatigued/Asleep |
| 9/17/2018 3:24:00 AM | Property Damage Only | E Fatigued/Asleep |
| 9/17/2018 5:30:00 AM | Property Damage Only | Unseen Object/Person/Vehic... |
| 9/17/2018 6:35:00 AM | Property Damage Only | Followed too Close |
| 9/17/2018 5:55:00 AM | Property Damage Only | E Failed to Yield Right-of-W... |
| 9/17/2018 7:41:00 AM | Property Damage Only | E Distracted by Insect/Reptile |
| 9/17/2018 7:54:00 AM | Non-Incapacitating Injury | E Failed to Yield Right-of-W... |
| 9/17/2018 6:51:00 AM | Possible Injury | DUI |
| 9/17/2018 7:35:00 AM | Property Damage Only | E Other Distraction Outside ... |
| 9/17/2018 7:59:00 AM | Possible Injury | E Ran Traffic Signal |
| 9/17/2018 7:23:00 AM | Property Damage Only | Misjudge Stopping Distance |
| 9/17/2018 8:14:00 AM | Property Damage Only | Unseen Object/Person/Vehic... |
| 9/17/2018 8:48:00 AM | Property Damage Only | Followed too Close |
| 9/17/2018 7:45:00 AM | Property Damage Only | E Other Distraction Inside t... |



16 153 17 63

SAFETY PORTAL CROSSTAB



Cross Tab Use Third Dimension

| | January | February | March | April | May | June | July | August | September | Totals |
|-----------------------|---------|----------|-------|-------|-----|------|------|--------|-----------|--------|
| Baldwin | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Barbour | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Blount | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 |
| Calhoun | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Clarke | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Colbert | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| Coosa | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Cullman | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Dekalb | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Elmore | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Franklin | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Geneva | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Jackson | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Jefferson | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 2 | 0 | 9 |
| Lauderdale | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| Lawrence | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| Lee | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 |
| Limestone | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 |
| Lowndes | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Madison | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 |
| Marshall | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 |
| Mobile | 1 | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 0 | 5 |
| Montgomery | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Morgan | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Russell | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| Shelby | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| Talladega | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Tuscaloosa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Totals (of all pages) | 2 | 2 | 3 | 8 | 7 | 7 | 11 | 8 | 8 | 52 |

Previous Page 1 of 1 Next

 View percentages View values Save

SAFETY DATA ANALYSIS

- Dashboard provides up-to-date view of crash data.
 - ✓ Public Viewable
- Evaluate current crash performance at a state level, city, or individual route level.
- Get familiar with crash trends

SAFETY LINK-NODE SEARCH

SAFETY

- Dashboard
- Search
- Enter Search Criteria.
- Reset Search
- Load Filter
- Save Filter As
- Drill Down
- Scheduled Reports
- Monitored Reports
- Cross Tab
- About This Datasource
- Manage Custom Filters
- Admin Reports

AL Crash

CONFIDENTIAL INFORMATION:
This web site is exempt from discovery
or admission under §23 U.S.C. 409.

LNVP Hello, jnorris Logout

CARE Search

Date Selection: 01/01/2015 12/31/2019

Route and Milepoint Selection(s):

Link and Node Selection(s): Tuscalo... Rural Tuscaloosa Link 1271

- + ADECA AHSO Region: Add category...
- + Adjusted EMS Arrival Delay: Add category...
- + Agency ORI: Add category...
- + ALDOT Area: Add category...
- + ALDOT Region: Add category...
- + ALEA Division: Add category...
- + At Intersection: Add category...
- + Causal Unit (CU) Type: Add category...
- + City: Add category...
- + CMV Involved: Add category...

Page 1 of 1 29 results Previous Next Save

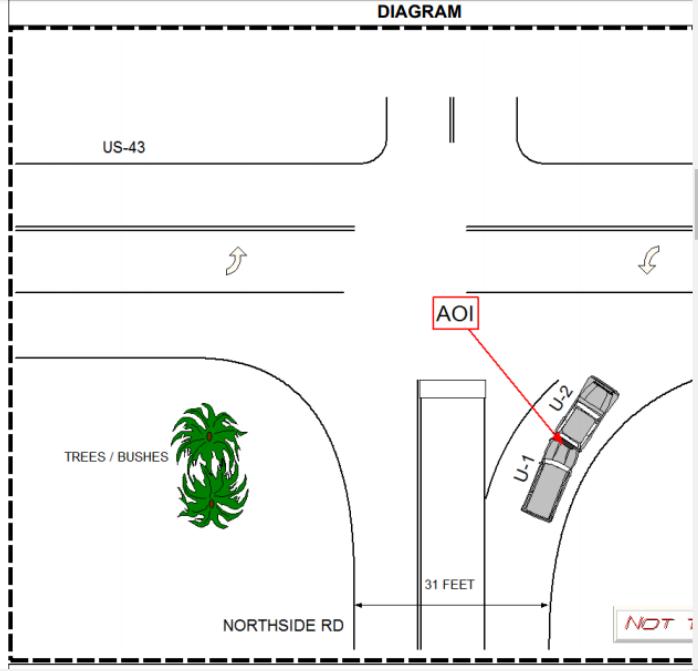
CARE Search Results

| County | Crash Number | E MapClick Used | Highway Classi... | Latitude | Link | Longitude |
|------------|--------------|-----------------|-------------------|-----------|------|------------|
| Tuscaloosa | | Yes | County | 33.464194 | 1271 | -87.637012 |
| Tuscaloosa | | Yes | County | 33.487015 | 1271 | -87.497532 |
| Tuscaloosa | | Yes | County | 33.487095 | 1271 | -87.497722 |
| Tuscaloosa | | Yes | County | 33.465928 | 1271 | -87.627817 |
| Tuscaloosa | | Yes | County | 33.493743 | 1271 | -87.55249 |
| Tuscaloosa | | Yes | County | 33.491582 | 1271 | -87.568172 |
| Tuscaloosa | | No | County | 33.465822 | 1271 | -87.62821 |

ViewCrashReport.aspx

safetyportal.aladata.com/Areas/ALSafetyPorta...

DIAGRAM



| County | Crash Number | E MapClick Used | Highway Classi... | Latitude | Link | Longitude |
|------------|--------------|-----------------|-------------------|-----------|------|------------|
| Tuscaloosa | | Yes | County | 33.464194 | 1271 | -87.637012 |
| Tuscaloosa | | Yes | County | 33.487015 | 1271 | -87.497532 |
| Tuscaloosa | | Yes | County | 33.487095 | 1271 | -87.497722 |
| Tuscaloosa | | Yes | County | 33.465928 | 1271 | -87.627817 |
| Tuscaloosa | | Yes | County | 33.493743 | 1271 | -87.55249 |
| Tuscaloosa | | Yes | County | 33.491582 | 1271 | -87.568172 |
| Tuscaloosa | | No | County | 33.465822 | 1271 | -87.62821 |

SAFETY LINK-NODE VIEWER



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Link/Node Query

Choose county to zoom and enter link/node to query:

Zoom To County Clear

Link / Node Query

OR

Choose a route and enter the from/to mileposts to view that portion of the route:

Select Route Clear

From MP To MP Query

Show Nodes

Confirmation messages will be displayed here.

A map showing a network of roads. A primary route is highlighted in red, with several nodes marked with green dots and labeled with numbers: 10654, 10655, 10010, 10412, 10411, 10408, 10406, 10404, 10402, 10400, 10398, 10396, 10394, 10392, 10390, 10388, 10386, 10384, 10382, 10380, 10378, 10376, 10374, 10372, 10370, 10368, 10366, 10364, 10362, 10360, 10358, 10356, 10354, 10352, 10350, 10348, 10346, 10344, 10342, 10340, 10338, 10336, 10334, 10332, 10330, 10328, 10326, 10324, 10322, 10320, 10318, 10316, 10314, 10312, 10310, 10308, 10306, 10304, 10302, 10300, 10298, 10296, 10294, 10292, 10290, 10288, 10286, 10284, 10282, 10280, 10278, 10276, 10274, 10272, 10270, 10268, 10266, 10264, 10262, 10260, 10258, 10256, 10254, 10252, 10250, 10248, 10246, 10244, 10242, 10240, 10238, 10236, 10234, 10232, 10230, 10228, 10226, 10224, 10222, 10220, 10218, 10216, 10214, 10212, 10210, 10208, 10206, 10204, 10202, 10200, 10198, 10196, 10194, 10192, 10190, 10188, 10186, 10184, 10182, 10180, 10178, 10176, 10174, 10172, 10170, 10168, 10166, 10164, 10162, 10160, 10158, 10156, 10154, 10152, 10150, 10148, 10146, 10144, 10142, 10140, 10138, 10136, 10134, 10132, 10130, 10128, 10126, 10124, 10122, 10120, 10118, 10116, 10114, 10112, 10110, 10108, 10106, 10104, 10102, 10100, 10098, 10096, 10094, 10092, 10090, 10088, 10086, 10084, 10082, 10080, 10078, 10076, 10074, 10072, 10070, 10068, 10066, 10064, 10062, 10060, 10058, 10056, 10054, 10052, 10050, 10048, 10046, 10044, 10042, 10040, 10038, 10036, 10034, 10032, 10030, 10028, 10026, 10024, 10022, 10020, 10018, 10016, 10014, 10012, 10010, 10008, 10006, 10004, 10002, 10000, 9998, 9996, 9994, 9992, 9990, 9988, 9986, 9984, 9982, 9980, 9978, 9976, 9974, 9972, 9970, 9968, 9966, 9964, 9962, 9960, 9958, 9956, 9954, 9952, 9950, 9948, 9946, 9944, 9942, 9940, 9938, 9936, 9934, 9932, 9930, 9928, 9926, 9924, 9922, 9920, 9918, 9916, 9914, 9912, 9910, 9908, 9906, 9904, 9902, 9900, 9898, 9896, 9894, 9892, 9890, 9888, 9886, 9884, 9882, 9880, 9878, 9876, 9874, 9872, 9870, 9868, 9866, 9864, 9862, 9860, 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6538, 6536, 6534, 6532, 6530, 6528, 6526, 6524, 6522, 6520, 6518, 6516, 6514, 6512, 6510, 6508, 6506, 6504, 6502, 6500, 6498, 6496, 649

CRASH LOCATION DATA

- We currently map close to 85% of all crashes
 - ✓ Public Property
 - ✓ Lacking location details from the officer
- Mapping crash events is an effective way to find potential safety issues.
 - ✓ Easy to find areas and link to crash diagram
 - ✓ Remember: Some locations have a crash history that has been solved.

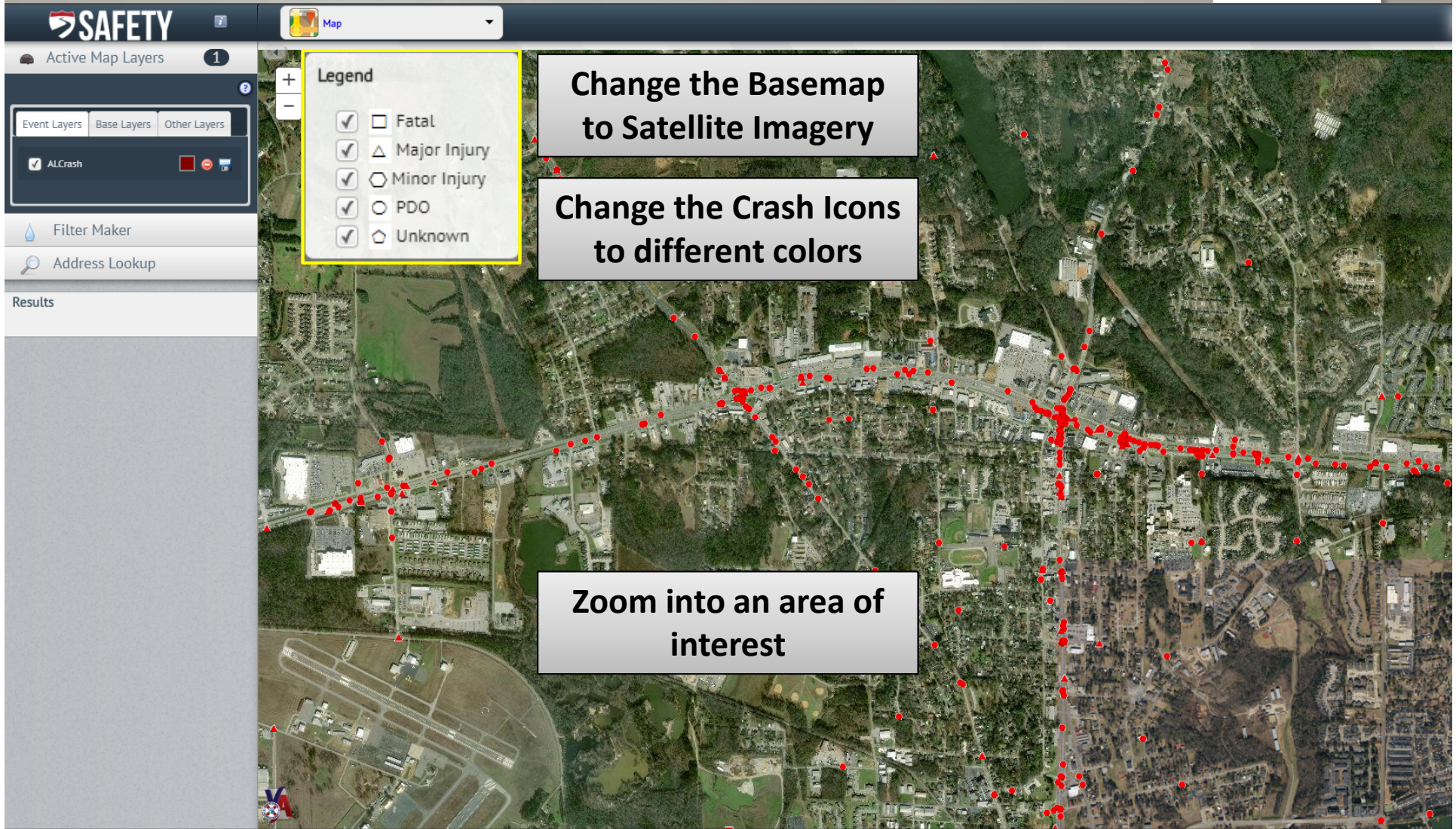
SAFETY PORTAL MAP

The screenshot displays the SAFETY Portal Map interface. At the top left, the 'SAFETY' logo is visible. Below it, the 'Active Map Layers' section shows '1' layer active, with a 'YearToDate' filter checked. The sidebar includes 'Filter Maker' and 'Address Lookup' options, with the latter showing coordinates (33.24482919, -84.52027587). The main map area shows a map of Mississippi with a legend overlay. The legend lists the following event types with their corresponding symbols and checked status:

- Fatal
- Major Injury
- Minor Injury
- PDO
- Unknown

The map shows a dense cluster of green circular markers in the eastern part of the state, near the border with Alabama. Major cities like Starkville, Jackson, Hattiesburg, and Gulfport are labeled, along with highways 5, 12, 50, 75, and 10.

SAFETY PORTAL MAP



The screenshot displays the SAFETY Portal Map interface. On the left, there is a sidebar with the 'SAFETY' logo, 'Active Map Layers' (1), and tabs for 'Event Layers', 'Base Layers', and 'Other Layers'. The 'Event Layers' tab is active, showing a checked 'ALCrash' layer. Below this are 'Filter Maker' and 'Address Lookup' options. The main map area shows a satellite basemap with numerous red circular icons representing crash locations. A legend box is overlaid on the map, listing crash types: Fatal (square), Major Injury (triangle), Minor Injury (circle), PDO (circle), and Unknown (circle). Three callout boxes provide instructions: 'Change the Basemap to Satellite Imagery', 'Change the Crash Icons to different colors', and 'Zoom into an area of interest'.

Change the Basemap to Satellite Imagery

Change the Crash Icons to different colors

Zoom into an area of interest

Legend

- Fatal
- Major Injury
- Minor Injury
- PDO
- Unknown

SAFETY PORTAL MAPPING

The screenshot displays the SAFETY portal interface. On the left, the 'Active Map Layers' section shows 'ALCrash' selected. Below it are 'Filter Maker' and 'Address Lookup' buttons. The main map area shows a satellite view of a residential area with several red triangle markers representing crash locations. A yellow circle highlights a specific intersection. A legend box is overlaid on the map, listing crash severity levels: Fatal (checked), Major Injury (checked), Minor Injury (unchecked), PDO (unchecked), and Unknown (unchecked). A yellow box highlights the 'Fatal' and 'Major Injury' entries in the legend. A text box with the instruction 'Use the Legend to Filter Crash Severity' points to the legend. Another text box with the instruction 'Zoom into the intersection' points to the highlighted intersection on the map.

SAFETY Map

Active Map Layers 1

Event Layers Base Layers Other Layers

ALCrash

Filter Maker

Address Lookup

Results

Legend

- Fatal
- Major Injury
- Minor Injury
- PDO
- Unknown

Use the Legend to Filter Crash Severity

Zoom into the intersection

SAFETY PORTAL CRASH DIAGRAM RETRIEVAL



CENTER for ADVANCED
PUBLIC SAFETY

SAFETY 7

Active Map Layers 1

Event Layers Base Layers Other Layers

ALCrash

Filter Maker

Address Lookup

Results (33.23902485, -87.57657401)

ALCrash 1

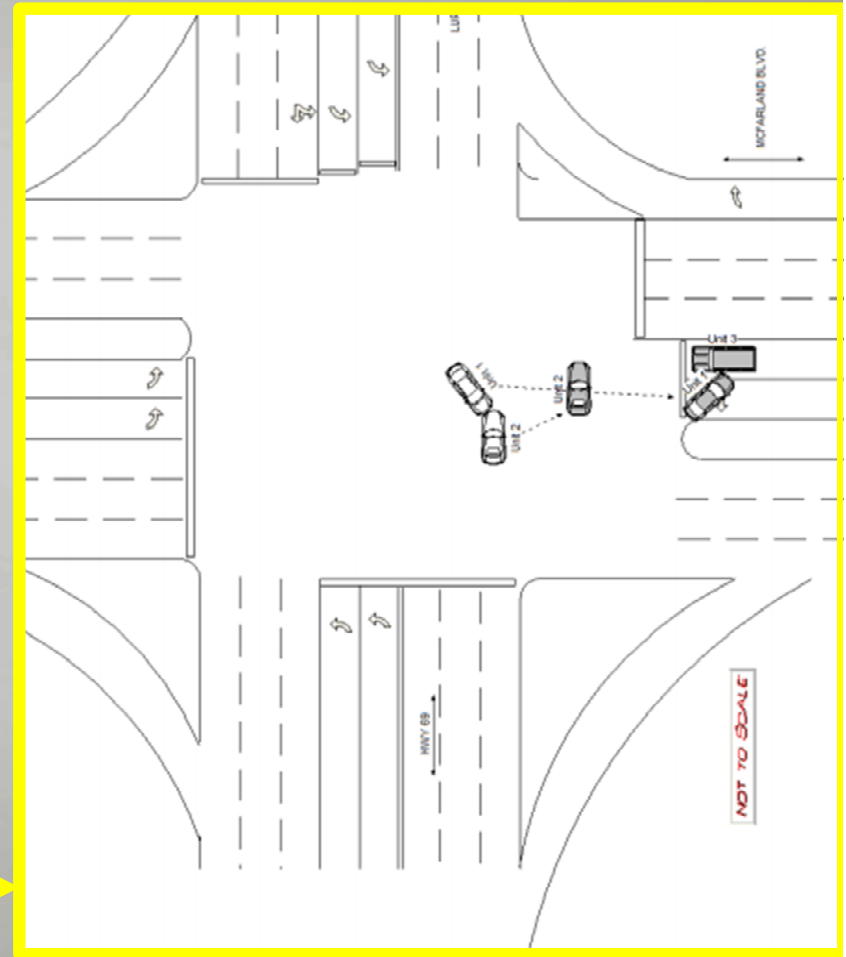
ID: i
Year: 2018
Month: September
City: Tuscaloosa
Reporting Agency: Tuscaloosa Police Department
Pedestrians Involved: No Pedestrians Involved
First Harmful Event: Collision with Vehicle in Traffic
Manner of Collision: Side Impact (angled)
Lighting: Daylight
Road Surface: Wet

[View Crash](#)

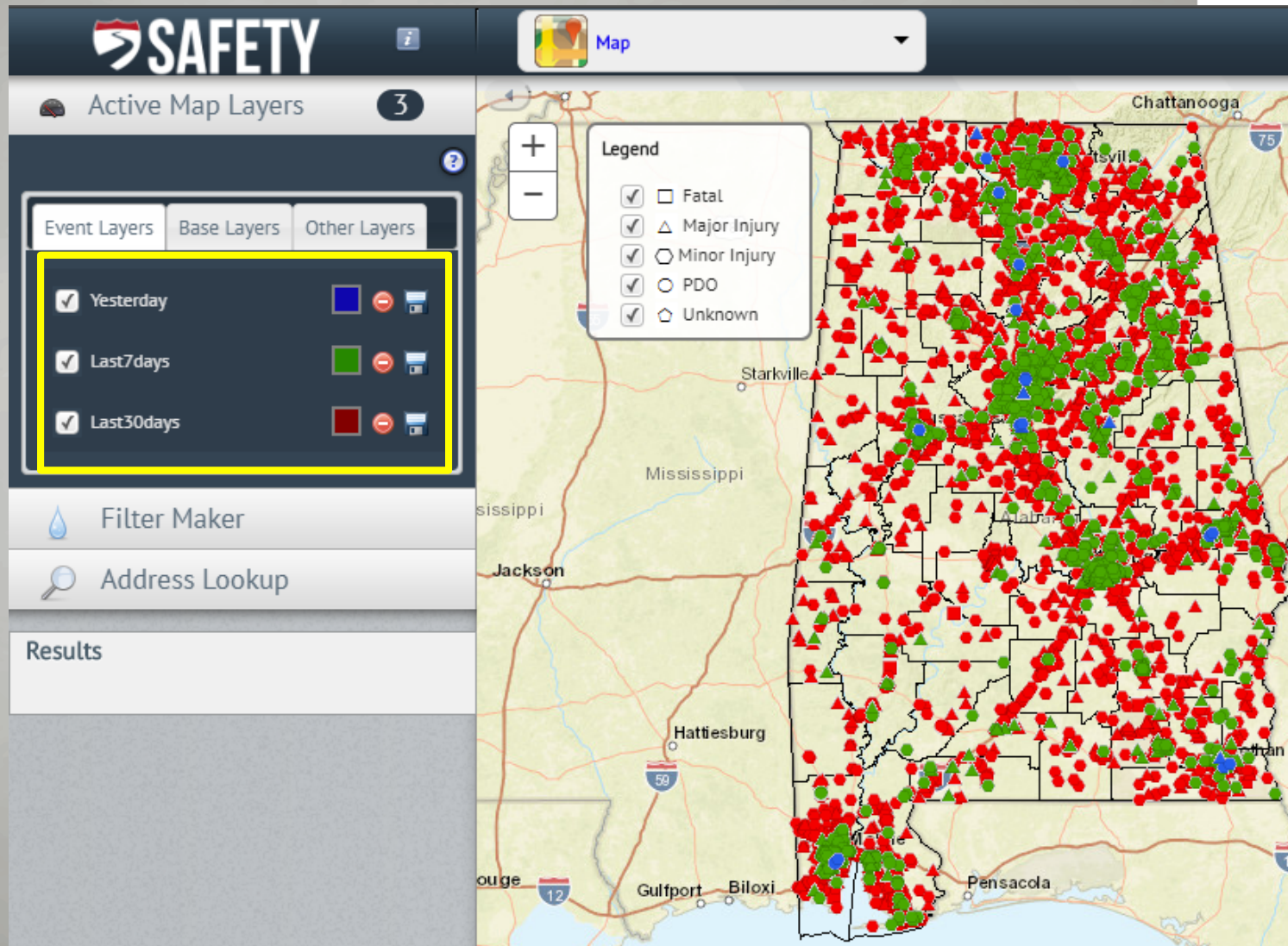
Map

Legend

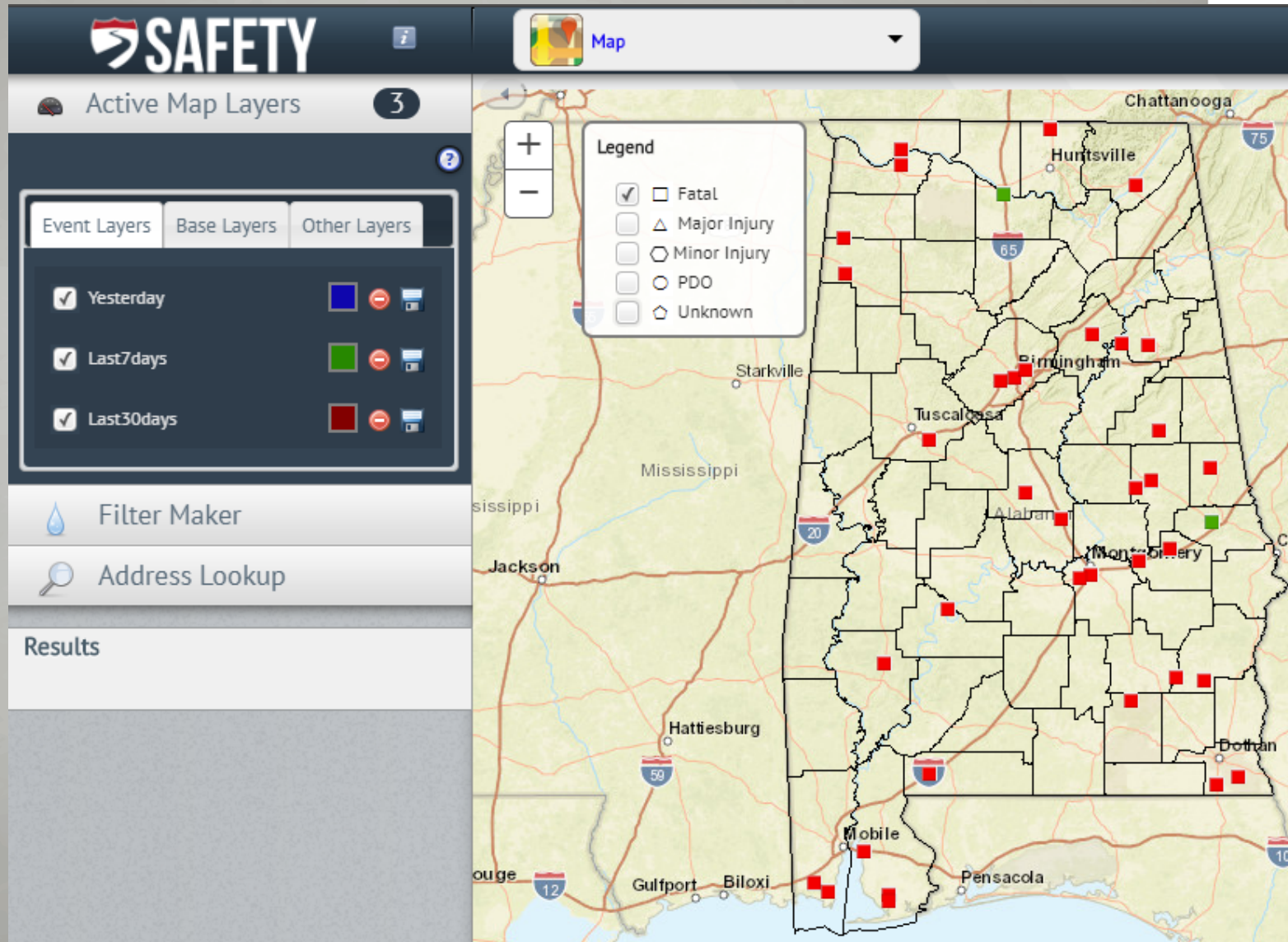
- Fatal
- Major Injury
- Minor Injury
- PDO
- Unknown



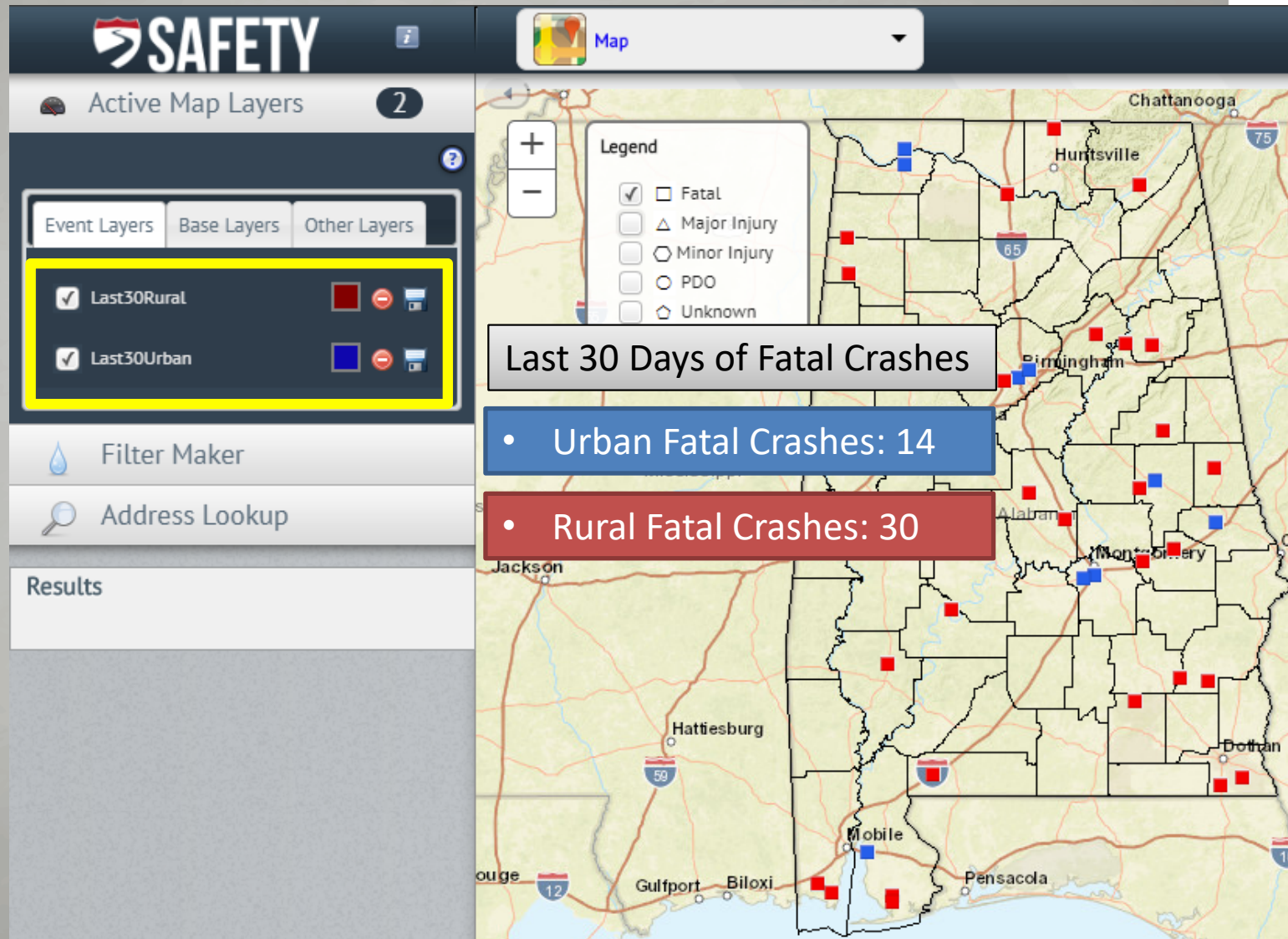
HISTORY OF CRASHES



HISTORY OF FATAL CRASHES



FATAL URBAN AND RURAL



SAFETY DATA RURAL FATAL



SAFETY AL Crash

Dashboard Hello, jnorris Logout

CU Driver Age Range 2 ALDOT Region

Date: Within Last 30 Days 08/25/2018 09/24/2018

Filters: Rural Fatal Crashes

Variable: E CU Sequence of Events Selected: 30 of 30 (All Crashes)

| Value | Count |
|----------------|-------|
| 16 to 20 Years | 2 |
| 21 to 25 Years | 2 |
| 26 to 30 Years | 2 |
| 31 to 35 Years | 4 |
| 36 to 40 Years | 2 |
| 41 to 45 Years | 1 |

County

AL Crash -- ALDOT Region
08/25/2018 - 09/24/2018 | Filter1: Rural | Filter2: Fatal Crashes

AL Crash -- County
08/25/2018 - 09/24/2018 | Filter1: Rural | Filter2: Fatal Crashes

E Most Harmful Event

AL Crash -- E Most Harmful Event
08/25/2018 - 09/24/2018 | Filter1: Rural | Filter2: Fatal Crashes

| Event Type | Count |
|---|-------|
| Overturn/Rollover | 10 |
| Fire/Explosion | 1 |
| Other Non-Collision | 1 |
| Collision with Non-Motorist: Pedestrian | 3 |
| Collision with Vehicle in Traffic | 7 |
| Collision with Tree | 7 |
| Collision with Utility Pole | 1 |

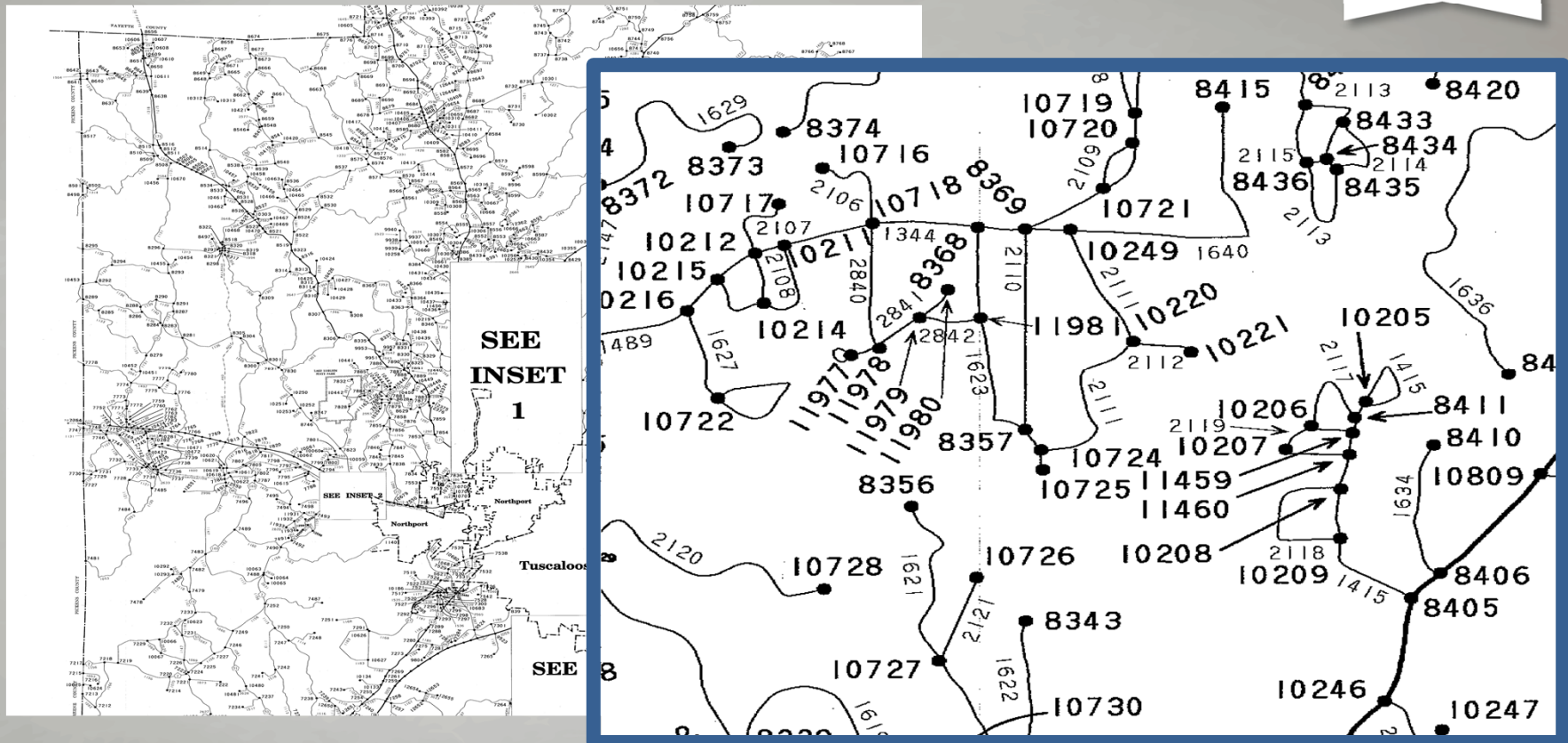
Save Map

Admin Reports

CRASH MAPPING IMPROVEMENTS

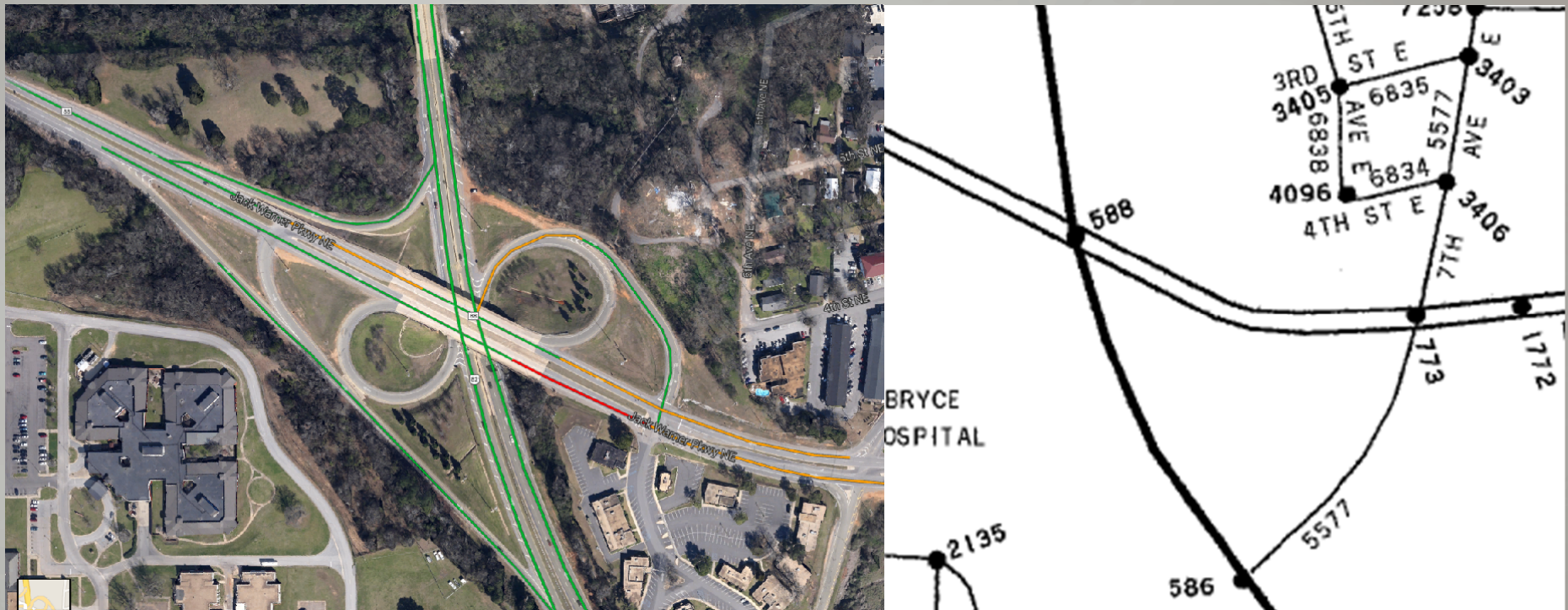


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- Police officers are not engineers
 - ✓ They are more concerned with crash scene safety
- PDF maps may not have newer links and node IDs

The actual intersection vs PDF Map



MAPCLICK SOLUTION



CENTER for ADVANCED
C SAFETY

The screenshot displays the MapClick software interface. On the left, a user profile for John J. Doe is visible, including his name, address (123 Test Drive, Tuscaloosa, AL 32345), and personal details (Sex: M, Weight: 200, Height: 6' 2", DOB: 12/31/1979, Age: 33). The main area shows a map of a campus with various streets and landmarks like Bryant-Denny Stadium. A red circle on the map indicates a selected location. A 'Node and Link Look-up Tool' window is open, showing the following data:

| [LINK ID] | STREET NAME |
|--------------------------|---------------------------------|
| [] | MCCORVEY DR |
| [NODE 1] | FIRST CROSS STREET |
| [767] | JACK WARNER PKY |
| <input type="checkbox"/> | Is this an intersection crash? |
| [NODE 2] | SECOND CROSS STREET |
| [1058] | |
| MILEPOST | DISTANCE |
| | 443.690 Feet |
| HIGHWAY SIDE | |
| CONTROLLED ACCESS | Not a controlled access highway |

At the bottom, a navigation bar contains buttons for: LETS Go, eCite, Log Book, eCrash, ASPEN, NCIC, eForms, Suspicious Activity Reports, MapClick, Exit, Contact Us, and Recent Data.

SAFETY PORTAL TRAINING



- Waymon Benifield – ALDOT Safety Administrator: 334-242-6705

- Jesse Norris: CAPS Safety Portal Trainer: 205-348-7920



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PUBLIC SAFETY

“KEEP IT BETWEEN THE MAYONNAISE AND THE MUSTARD”

THE UNIVERSITY OF
ALABAMA



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PUBLIC SAFETY

THANK YOU

Any questions or comments?

Jesse Norris
Senior Research Analyst

Center for Advanced Public Safety
Tuscaloosa, AL | (866) 349-2273
caps.ua.edu

Connect with UACAPS  