



# *Algo Traffic Updates*

*"Know before you go...."*

*67<sup>th</sup> Annual Transportation Conference*

Brett J. Sellers, PE

State TSM&O Engineer

# History

- 23 CFR 511.309
  - Requires states to establish real-time information programs for:
    - Construction
    - Lane blocking incidents
    - Road Weather
    - Travel Time
- ALDOT decides against phone
- Algo Traffic comes online 11/2016



# Why now?

- Technology changes
  - Depreciated SDK's (built on V2.3.6.2, operating on V6.4.8.1 and V7 isn't backwards compatible)
- Data coming in changes (ATMS Upgrade in 2021)
- You can only make so many patches.....

JavaScript

HTML

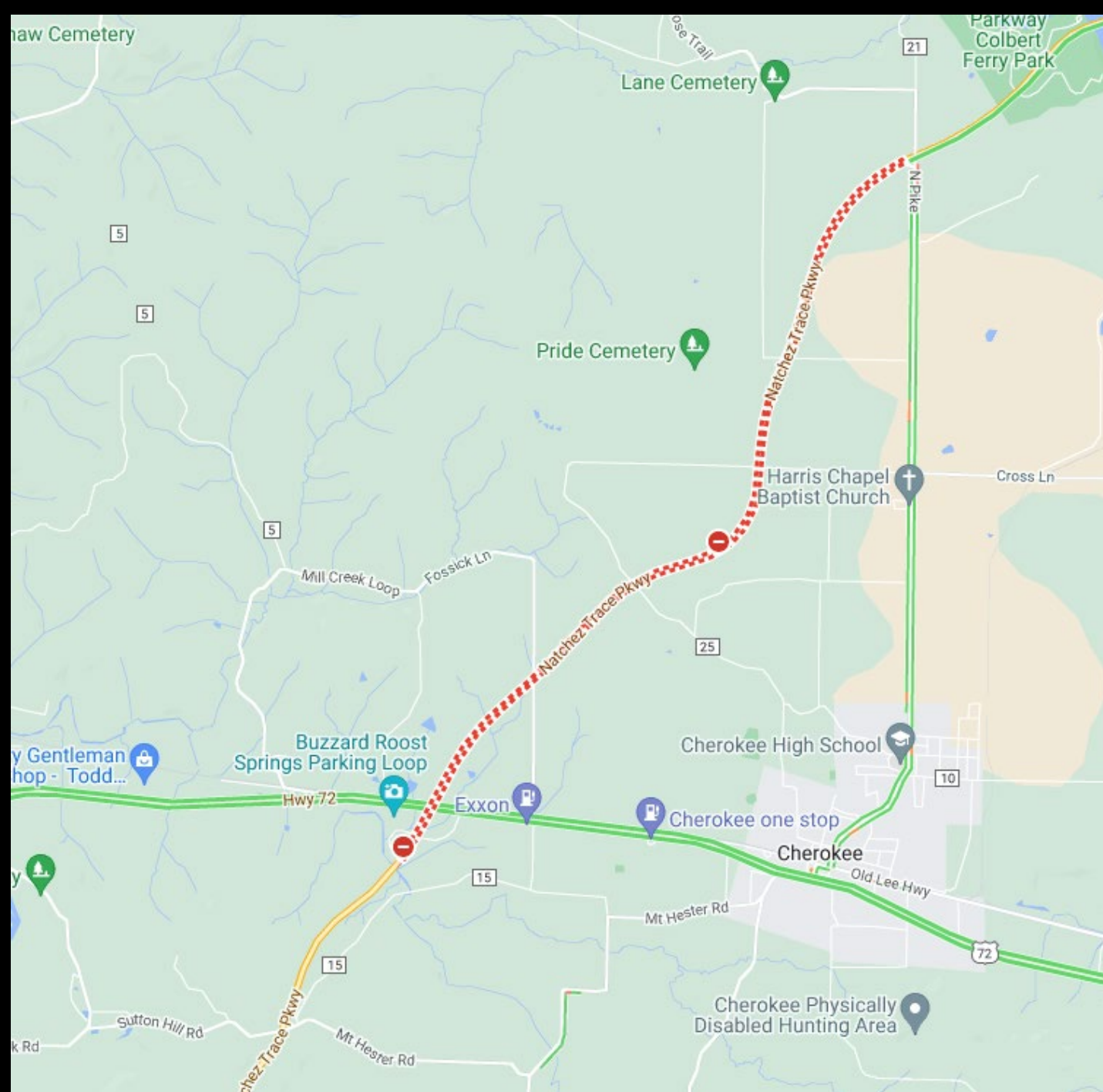
```
1
2 var platform = new H.service.Platform({
3   apikey: apikey
4 });
5 var defaultLayers = platform.createDefaultLayers();
6
7 var map = new H.Map(document.getElementById('map'), defaultLayers.vector.normal.map, {
8   center: {lat: 52.496, lng: 13.382},
9   zoom: 11,
10  pixelRatio: window.devicePixelRatio || 1
11 });
12 window.addEventListener('resize', () => map.getViewPort().resize());
13 var behavior = new H.mapevents.Behavior(new H.mapevents.MapEvents(map));
14
```

But let's be honest.....

The dreaded Google closure.....

“Do Not Enter”

quick to close but slow to reopen





# Goals of the update

- Allow travelers to make an informed decision
- Be a trusted, go to source of information for other stakeholders
- Create a modern, user-friendly experience
- Develop a back-end product that is adaptable for future growth
- Work towards consolidation of Algo Suite
  - Algo Traffic, Algo Video, Algo Admin
- Share data but retain state specific features
  - Cameras, ASAP Contact, ASAP/WC&RA Feedback

## ALGO Traffic

ALGO Traffic provides live traffic camera feeds, updates on road work, and access to exclusive ALDOT information.

### SITE CONTENT

- Map
- Traffic Reports
- Travel Times
- Cameras
- Amber Alerts
- Feedback

### RESOURCES

- Documents
- External Links
- Twitter

Sponsored By



ALDOT ALEA FMCSA

Traveler Information

- Map
- Traffic Reports
- Travel Times
- Cameras
- Trip Planner
- Settings

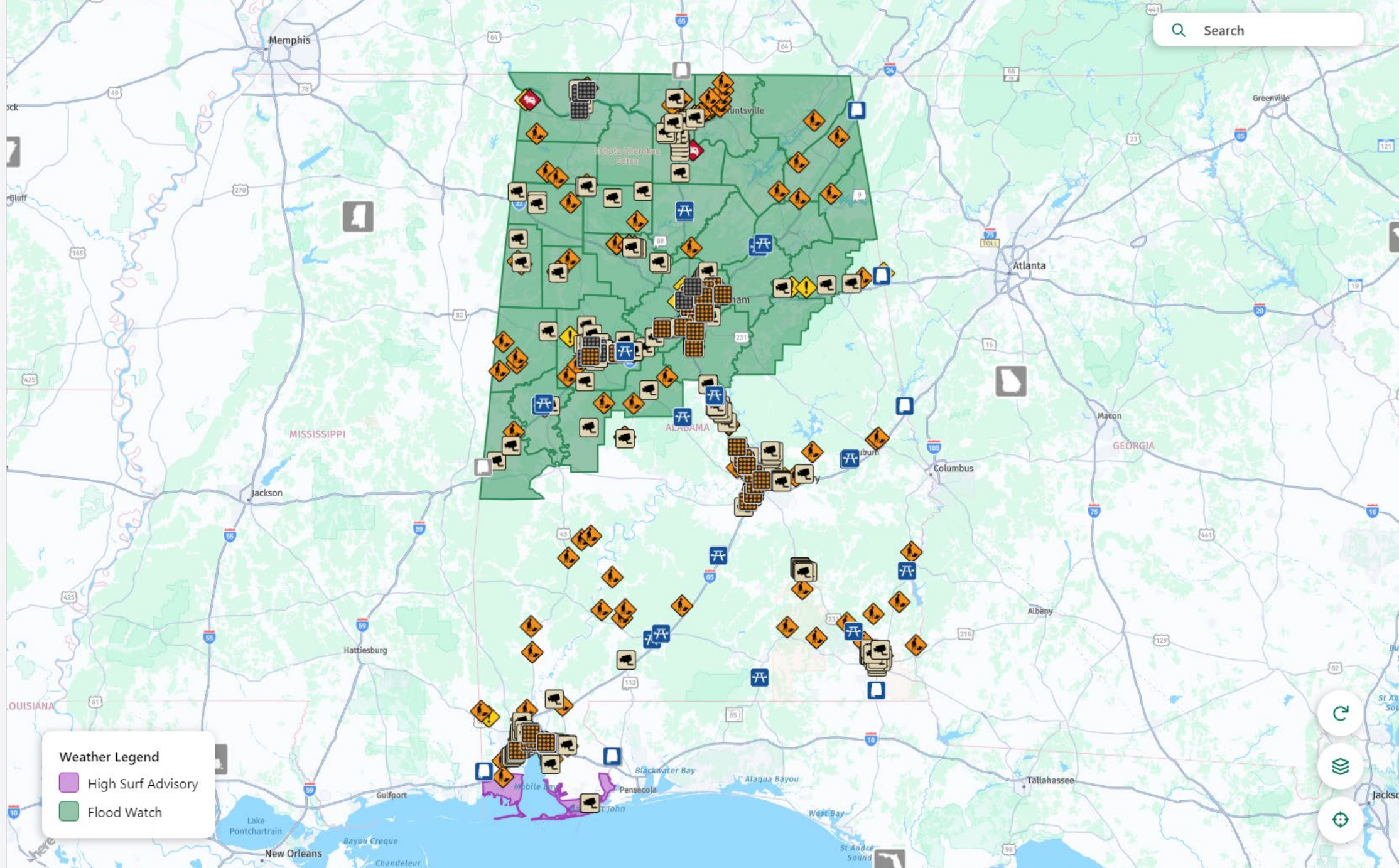
Resources

- Documents
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- Law Enforcement Alerts
- Personalized Alerts
- Social Media
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Feedback

- ASAP Survey
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- Comments

Search



**Weather Legend**

- High Surf Advisory
- Flood Watch

## Map Layers

Close



All Layers



Crash



Incident



Road  
Condition



Weather  
Alert



Roadwork



Message  
Sign



Regional  
Event



Camera



State Facility



Traffic Layer

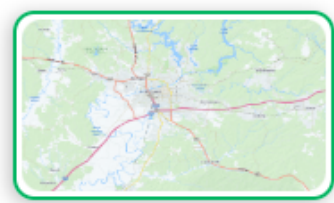


Other 511  
Systems



Ferry

## Map Types



Normal



Satellite

## Traffic Speed Legend



Traveler Information

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### Major Crash

Done

I-20/59 @ MP 125.76 at Exit 126A: US31/Elton B Stephens Expy in Jefferson County

01/24/2024  
8:10 AM

01/24/2024  
10:00 AM



Crash with lane blockage. Please use caution when traveling through this area.

Eastbound



Westbound



Last updated 41 minutes ago.

Nearby Cameras

Play All



ALGO Traffic cameras are a public safety tool for use in real time and not intended to be recorded or otherwise used for any commercial purpose. All unauthorized photography, recording, storing, or transmitting of visual material, data, or information gathered from ALGO traffic cameras without the permission of ALDOT is expressly prohibited.



Traveler Information

- Map
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Resources

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Search

0050 I-20/59 Caraway  
I-20/59  
Caraway Blvd.



0111 CAM-2059 AT 24TH ST N  
I-20/59  
US-31



0044  
I-20/59 31st St.  
31st St.



storing, or transmitting of visual material, data, or information gathered from ALGO traffic cameras without the permission of ALDOT is expressly prohibited.

# Traffic Reports

Search

All Report Types

All Regions

Traveler Information

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Traffic Reports

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**ROAD CLOSED**

## Overtaken Vehicle

Done

I-459 SB ramp to I-20/59 W in Bessemer

02/01/2024  
10:45 AM

02/01/2024  
2:00 PM



Crash causing total road closure. Traffic has been detoured onto I-20/59 EB. Please use caution when traveling through this area.

Southbound

**ROAD CLOSED**

Last updated 5 minutes ago.

Nearby Cameras



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**ROAD CLOSED**



Ove  
I-459 S  
02/01/  
10:45

Min  
US231  
02/01/  
11:25

PSA  
US 98  
05/06/  
3:26 P

Ab  
I-565 E  
01/23/  
9:49 AM

Abandoned Vehicle  
I-65 NB @ MP 333.49 at A L67 in Priceville

Abandoned Vehicle  
I-565 WB @ MP 17 at Exit 17: Jordan Ln in Huntsville

y in Tuscumbia

Tunnel in Mobile

Wilmer

d in Huntsville

02/01/2024  
12:22 PM

06/25/2049  
2:36 PM

02/12/2024  
3:00 PM

02/02/2024  
12:00 PM

# Traffic Reports

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All Regions



Navigation controls: Previous Page, Pause, Next Page



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**Abandoned Vehicle**  
I-565 WB @ MP 4.98 at Greenbrier Rd in Huntsville



















**Abandoned Vehicle**  
I-65 NB @ MP 333.49 at A 167 in Priceville

02/01/2024  
11:50 AM

02/01/2024  
12:25 PM

09/20/2050  
4:26 PM

02/02/2024  
12:00 PM

-  ✕
- Traveler Information ▾
-  Map
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-  Comments

# Traffic Reports

Search


All Report Types ▾
All Severities ▾
All Cities ▾
All Counties ▾
All Regions ▾

**ROAD CLOSED**

### Major Crash

I-10 @ MP 44.36 at Exit 44/AL 59 in Baldwin County


01/24/2024 8:02 AM 01/24/2024 12:15 PM



### Major Crash

I-20/59 @ MP 125.76 at Exit 126A: US31/Elton B Stephens Expy in Jefferson County


01/24/2024 8:10 AM 01/24/2024 10:00 AM



### Minor Crash

US231/AL210/Ross Clark Cir @ MP 1.79 at AL52 in Houston County


01/24/2024 8:53 AM 01/24/2024 9:53 AM



### Minor Crash

US 29 @ MP 209.61 at 30th St E in Chambers County


01/24/2024 8:55 AM 01/24/2024 9:55 AM



### Moderate Crash

AL271/Taylor Rd @ MP 4.77 at I-85 in Montgomery County

01/24/2024 9:14 AM 01/24/2024 10:14 AM



### Moderate Crash

US231/431 @ MP 335.05 at University Dr in Madison County


01/24/2024 9:17 AM 01/24/2024 10:17 AM



### Moderate Crash

I-20/59 @ MP 125.76 at Exit 126A: US31/Elton B Stephens Expy in Jefferson County

01/24/2024 9:46 AM 01/24/2024 10:46 AM



### PSA

US 98 @ MP 27.95 at Bankhead Tunnel in Mobile County


02/08/2022 1:36 PM 06/25/2049 2:36 PM


- algo traffic
- Traveler Information
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# Traffic Reports

Search

Crash x All Severities All Cities All Counties Southeast x

 **Minor Crash**  
US231/AL210/Ross Clark Cir @ MP 1.79 at AL52 in Houston County  
01/24/2024 8:53 AM — 01/24/2024 9:53 AM



 **Minor Crash**  
US 29 @ MP 209.61 at 30th St E in Chambers County  
01/24/2024 8:55 AM — 01/24/2024 9:55 AM

 **Moderate Crash**  
AL271/Taylor Rd @ MP 4.77 at I-85 in Montgomery County  
01/24/2024 9:14 AM — 01/24/2024 10:14 AM

# Travel Times


**Birmingham to Oxford**  
 Arrive in 55 minutes  
**Average speed is 65**

  
 Last Updated less than a minute ago


**Birmingham to Tuscaloosa**  
 Arrive in 55 minutes  
**Average speed is 65**

  
 Last Updated less than a minute ago


**MS to Tuscaloosa**  
 Arrive in 1 hour, 10 minutes  
**Average speed is 65**

  
 Last Updated less than a minute ago


**Tuscaloosa to MS**  
 Arrive in 1 hour, 10 minutes  
**Average speed is 65**

  
 Last Updated less than a minute ago


**Mobile to I-65**  
 Arrive in 12 minutes  
**Average speed is 24**

  
 Last Updated less than a minute ago


**I-65 to Mobile**  
 Arrive in 4 minutes  
**Average speed is 65**

  
 Last Updated less than a minute ago


**I-65 to I-20/59**  
 Arrive in 14 minutes  
**Average speed is 65**

  
 Last Updated less than a minute ago


**I-65 to I-59**  
 Arrive in 16 minutes  
**Average speed is 65**

  
 Last Updated less than a minute ago

Traveler Information V

- Map
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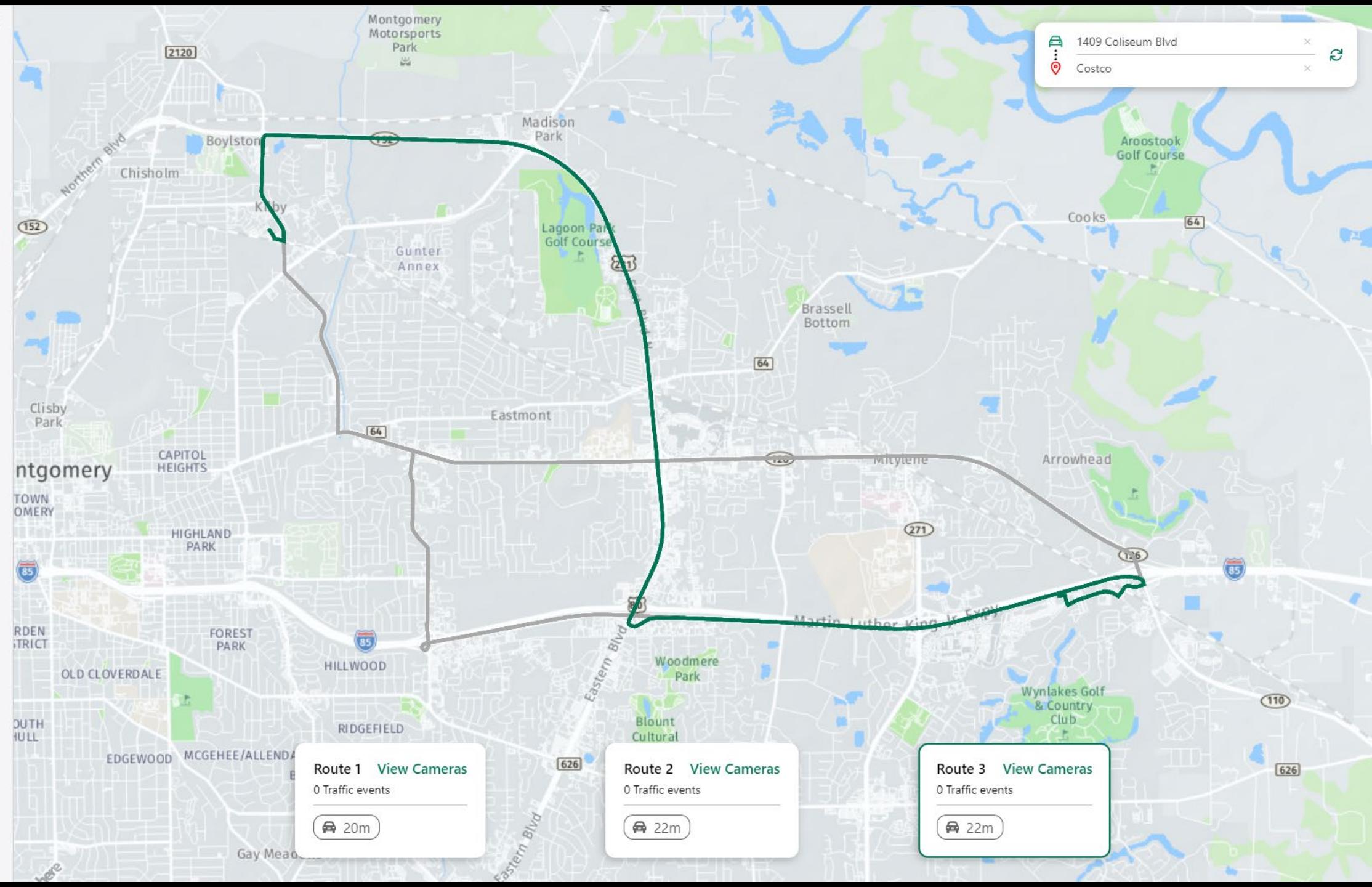
Resources V

- Documents
- External Links
- Twitter
- Law Enforcement Alerts
- About

Feedback V

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1409 Coliseum Blvd X  
Costco X



**Route 1** View Cameras  
0 Traffic events  
20m

**Route 2** View Cameras  
0 Traffic events  
22m

**Route 3** View Cameras  
0 Traffic events  
22m

Traveler Information v

- Map
- Traffic Reports
- Travel Times
- Cameras
- Trip Planner**
- Settings

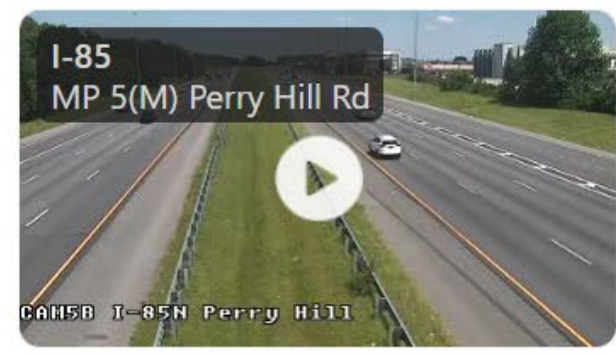
Resources v

- Documents
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< Back **Route 1 Cameras**





# Law Enforcement Alerts

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Traveler Information

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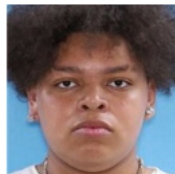
Resources

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## Missing Child - Kendell Ezell



Kendell Ezell, a Black Male was last seen in Pleasant Grove, Alabama.

Comments:  
On January 21, 2024, Kendell Antonio Ezell left the area of 9th Court in Pleasant Grove, AL and has not returned. He was last seen wearing a black hooded sweatshirt, black and white checkered pants, and black and white Jordan sneakers. His direction of travel is unknown at this time. If anyone has any information regarding the whereabouts of Kendell Ezell, please contact the Pleasant Grove Police Department at (205) 744-1735.

Published January 23, 2024

## Missing Child - Lilian Parker

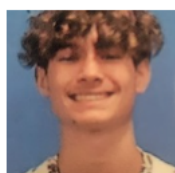


Lilian Parker, a White Female was last seen in Wilmer, Alabama.

Comments:  
On January 11, 2024, Lilian Parker left the area of Cuss Fork Road in Wilmer, Alabama and has not returned. Her direction of travel and clothing worn are unknown at this time. If anyone has any information regarding the whereabouts of Lilian Parker, please contact the Mobile County Sheriff's Office at (251) 574-8633.

Published January 19, 2024

## Emergency Missing Child Alert - Zaiden Langford - Zaiden Langford

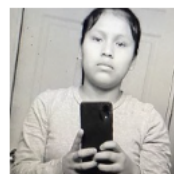


Zaiden Langford, a White Male was last seen in Madison, Alabama. Zaiden Langford, a White Male was last seen in Madison, Alabama.

Comments:  
The Limestone County Sheriff's Office is asking for the public's assistance in locating Zaiden Langford. Zaiden Langford is a 15-year-old white male with brown eyes and brown hair. He was last seen on January 17, 2024, at approximately 1:12 PM wearing a black hoodie and sweatpants in the area of Virginia Court in Madison, Alabama. If you have any information regarding the whereabouts of Zaiden Langford, please contact the Limestone County Sheriff's Office at (256) 623-2011 or call 911.

Published January 17, 2024

## Missing Child - Evelyn Maez



Evelyn Maez, a White Female was last seen in Enterprise, Alabama.

Comments:  
On December 17, 2023 Evelyn Aracely Cucul Maez left the area of Mill Avenue in Enterprise, Alabama and has not returned. She was last seen wearing a red top, blue shorts and sandals. Her direction of travel is unknown at this time. If anyone has any information regarding the whereabouts of Evelyn Maez, please contact the Enterprise Police Department at (334) 347-1211.

Published December 17, 2023

## Missing Child - Terricka Hartley - Terricka Hartley



Terricka Hartley, a Black Female was last seen in Calera, Alabama. Terricka Hartley, a Black Female was last seen in Calera, Alabama.

Comments:  
On December 8, 2023, Terricka Harley left the area of Aronimink Drive in Calera, AL and has not returned. She was last seen wearing a light colored coat. Her direction of travel is unknown at this time. If anyone has any information regarding the whereabouts of Terricka Hartley, please contact the Calera Police Department at (205) 668-3505.

Published December 11, 2023

## Missing Child - Amerriya Herbert



Amerriya Herbert, a Black Female was last seen in Calera, Alabama.

Comments:  
On December 8, 2023, Amerriya Herbert left the area of Aronimink Drive in Calera, AL and has not returned. She was last seen wearing dark colored jeans and a light colored jacket. Her direction of travel is unknown at this time. If anyone has any information regarding the whereabouts of Amerriya Herbert, please contact the Calera Police Department at (205) 668-3505.

Published December 11, 2023

*Leaning into.....*



KNOW BEFORE  
YOU GO VISIT  
ALGOTRAFFIC



## Personalized Travel Alerts

Login

Forgot your username or password? [Click here](#)

Don't have an account? [Click here](#)

Need Help? [Click here](#)

\*Username:

\*Password:

Login

# Personalized Traveler Alerts

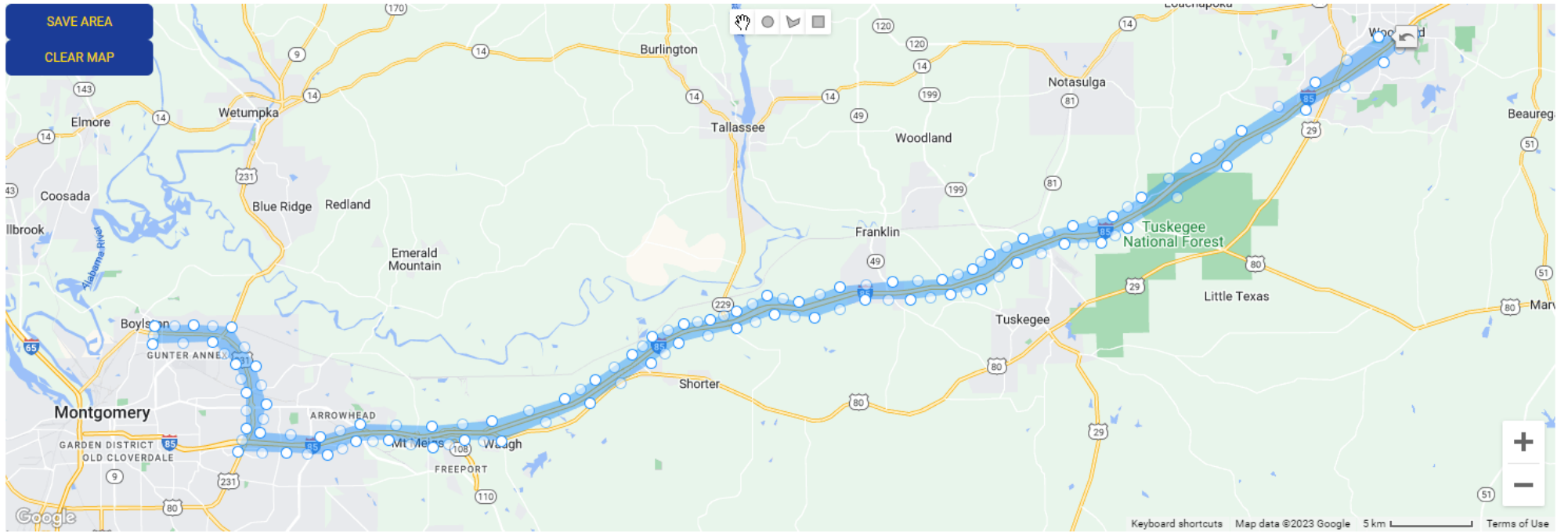
## Add a New Traffic Profile

### Traffic Profile Area

Use the drawing tools on the top center of the map to help you decide which type of shape you would like to use to select your area of interest

Draw a shape around the entire area for which you would like to receive alerts. Any alerts that fall within those boundaries will be sent to your email or texted

When the shape is complete, press the **Save Area** button. Need help with the drawing tools? [Click here](#)



### Check the days you wish to be notified

Select the day(s) of the week to receive notifications for this trip. You can select the entire week, week days, weekends, or any combination of specific days.

- Entire Week
- Weekend
- Week Days
- Mon  Tue  Wed  Thu  Fri
- Sat  Sun

### Choose the times you wish to be notified

Select the time of day to receive notification. To receive alerts overnight, just set the start time to be in the evening, and the end time to be in the morning

\*Beginning Time

06:00 AM

\*Ending Time

09:00 AM

### Notification Types

Select the categories of notification you wish to receive

- Incidents
- Roadwork
- Travel Information
- Travel Restrictions
- Weather Related

### Other Details

Select the method for getting notifications

Assign your profile a nickname for later reference

When you are done,  
press the **Add Profile** button

\*Where would you like alerts to be sent?

3343153435

\*Please enter a name to associate with this profile

# Messages

Show less

**65581** 35m ago  
 ALGO(PRV): Incident on I-65 SB at Exit 242: CR52/Pelham/Helena MM 241.97  
 All lanes are open.  
<https://algotraffic.com/>

**65581** 47m ago  
 ALGO(PRV): Incident on I-65 SB at Exit 242: CR52/Pelham/Helena MM 241.97. Lane Closures.  
 A disabled vehicle blocking the right lane. P...

**65581** 1h ago  
 ALGO(PRV): Incident on I-65 SB at Exit 242: CR52/Pelham/Helena MM 242.67  
 All lanes are clear.  
<https://algotraffic.com/>

**65581** 1h ago  
 ALGO(PRV): Incident on I-65 SB at Exit 242: CR52/Pelham/Helena MM 241.97. Lane Closures.  
 A disabled vehicle blocking the right lane. P...

**Lisa Miller** 50m ago  
 TETC Fall CAV Working Group Meeting - Doodle poll  
 \*This is an automated annotation, the following message contains an attachment t...

computer, mobile app or room device Click...

130



65581 >

<https://algotraffic.com/>

Today 12:03 PM

ALGO(PRV): Incident on I-65 SB at Exit 242: CR52/Pelham/Helena MM 241.97. Lane Closures.  
 A disabled vehicle blocking the right lane. Please use caution when traveling through this area.  
<https://algotraffic.com/>

ALGO(PRV): Incident on I-65 SB at Exit 242: CR52/Pelham/Helena MM 242.67  
 All lanes are clear.  
<https://algotraffic.com/>

ALGO(PRV): Incident on I-65 SB at Exit 242: CR52/Pelham/Helena MM 241.97. Lane Closures.  
 A disabled vehicle blocking the right lane. Please use caution when traveling through this area.  
<https://algotraffic.com/>

ALGO(PRV): Incident on I-65 SB at Exit 242: CR52/Pelham/Helena MM 241.97  
 All lanes are open.  
<https://algotraffic.com/>



Text Message



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- Rest Area Survey
- Comments



### Moderate Crash

Done

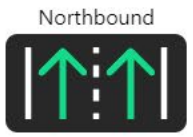
US31 @ MP 231.52 at Pine Hill Rd in Chilton County

08/17/2023  
12:41 PM

08/17/2023  
1:41 PM



crash with unknown lane blockage. Please use caution when traveling through this area.



Last updated 10 minutes ago.

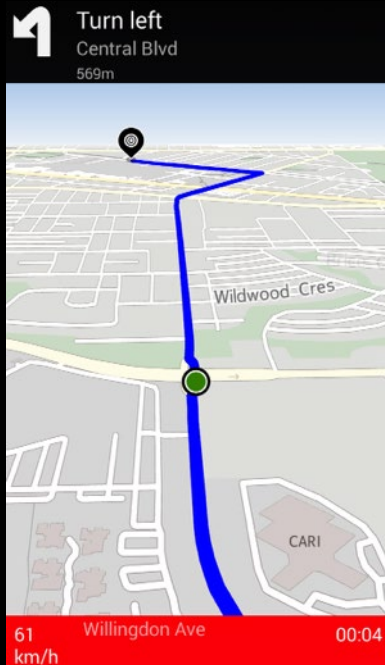
Play All

Nearby Cameras

No nearby cameras

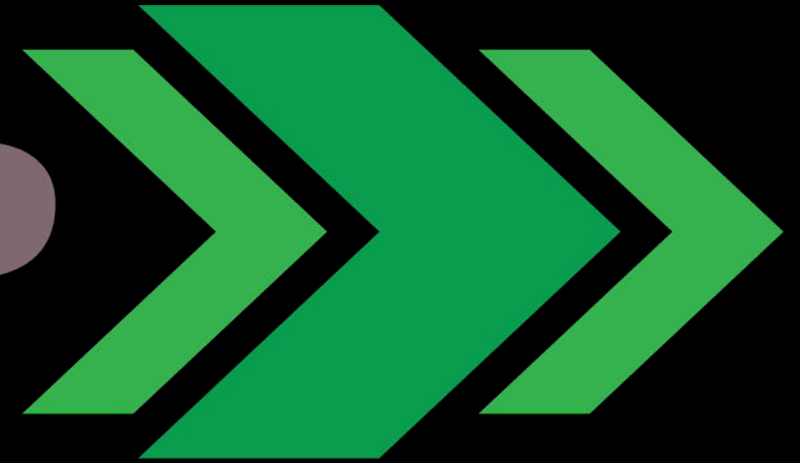
# Potential Future Additions

- Baron Weather radar
- An ASAP contact feature
- Turn by turn navigation



**BARON**  
WEATHER

**ASAP**





# Winter Weather Event Use

Active users <b>285,549</b> ↑ 1,017.3%	New users <b>280,899</b> ↑ 1,134.4%	Sessions <b>473,890</b> ↑ 855.3%	Average session duration <b>00:03:32</b> ↓ -32.0%	Sessions per user <b>1.66</b> ↓ -14.6%
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## ALGO Traffic App Analytics

Jan 1, 2024 - Jan 31, 2024

### Active Users

**64,845**  
↑ 767.3%

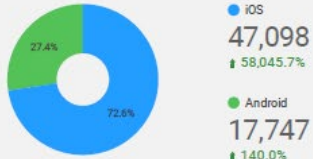
### New Users

**53,268**  
↑ 2,879.2%

### Sessions

**265,380**  
↑ 832.1%

### Active Users By Platform

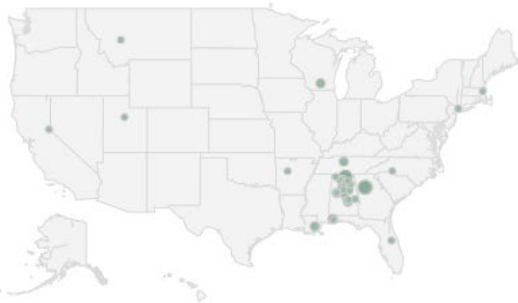


● 47,098  
● 17,747

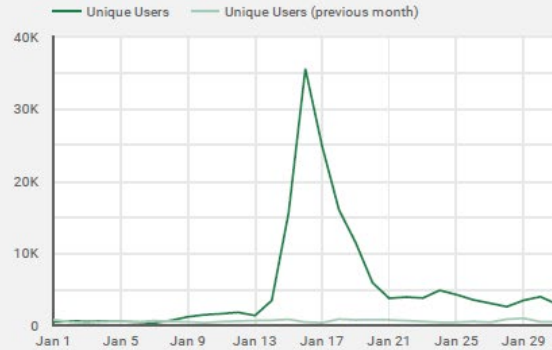
### Active Users By State



### Active Users By City



### Active Users By Day

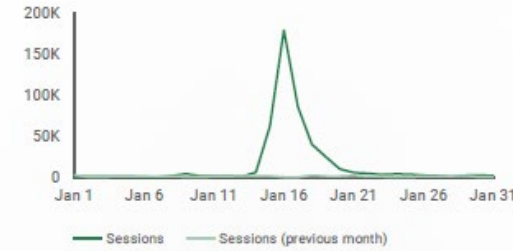


### Active Users By Top 10 Cities

City	Unique Users
1. Birmingham	24,289
2. Decatur	4,982
3. Huntsville	4,190
4. Atlanta	4,102
5. Hoover	2,577
6. Athens	1,746
7. Madison	1,705
8. Tuscaloosa	1,676
9. Montgomery	1,638
10. Mobile	1,403

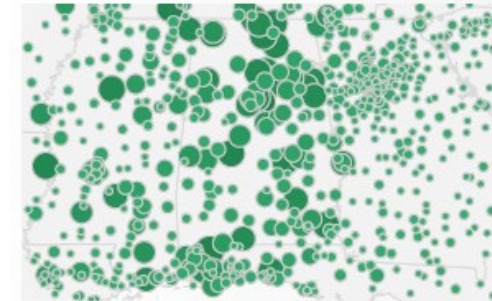
### How are site sessions trending?

Current period vs. previous period



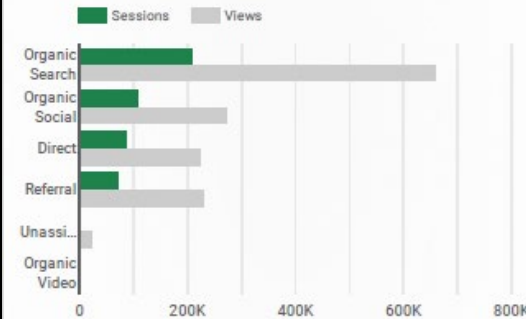
### What are the top locations by sessions?

Sessions over the time period selected



### Which channels are driving engagement?

Goal: Engaged Users



City	Region	Sessions	Views
1. Birmingham	Alabama	60,750	
2. Chicago	Illinois	47,411	
3. Huntsville	Alabama	20,091	
4. Atlanta	Georgia	15,751	
5. Decatur	Alabama	11,389	
6. Dallas	Texas	11,207	
7. Hoover	Alabama	8,281	
8. Montgomery	Alabama	8,776	
9. Mobile	Alabama	4,613	
1. Madison	Alabama	6,783	

### Where is your traffic coming from?

ALDOT Domains, Search, or Direct

Page referrer	Sessions
1. https://www.google.com/	165,820
2. /	136,936
3. http://m.facebook.com/	69,301
4. https://www.dot.state.al.u...	38,754
5. https://lm.facebook.com/	26,025

### What pages are viewed the most?

/ is the home page

Landing page	Session...	Average sessio...
1. /map	366,975	00:03:30
2. /Cameras	42,192	00:04:28
3. /cameras	21,635	00:03:07
4. (not set)	16,110	00:00:01
5. /traffic-reports	10,288	00:04:12

# Closing

- The data out is only as good as the data in.
  - Any activity with potential impacts to traffic must be reported.
- We're constantly trying to improve.
  - User experience
  - Data quality through partnerships with our Traffic Management Centers.
  - Sharing data with other mapping/navigation companies.
  - Integrating WC & RA and ASAP feedback forms via QR codes.
  - Kiosk enhancements and delivery methods
  - After Action Review from Winter Weather Event



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