

NORTH/WEST PASSAGE



January 2026

Assessment: Third-Party Mapping/Navigation Providers Display of
DOT Traveler Information Events

Project 19.3 – FINAL

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1. INTRODUCTION

The North/West Passage (NWP) pooled fund study program focuses on developing effective methods for sharing, coordinating, and integrating traveler information, operational activities, and emerging technologies across state and provincial borders. Membership includes the Washington State Department of Transportation (DOT), Idaho Transportation Department, Montana DOT, Wyoming DOT, North Dakota DOT, South Dakota DOT, and Minnesota DOT along the I-90 and I-94 corridors as illustrated in Figure 1-1.



Figure 1-1: North/West Passage Member States

One area of interest to the NWP members was how NWP member states' traveler information events are displayed on select established third-party websites and mobile apps (Google Maps, Apple Maps, Bing, and Waze).

Background

The earliest delivery of traveler information was through AM/FM radio and local television news broadcasts. As transportation technologies were introduced, solutions such as Dynamic Message Signs (DMS) and Highway Advisory Radio (HAR) increased en-route delivery of key traveler information. A few catalysts (e.g., the increased use of mobile phones, the introduction of the internet, and the national delegation of 511 for traveler information) were coupled with the period in the 1990s when state DOT traveler information systems expanded throughout the country. For operations of DOT operated traveler information systems, State DOTs were responsible for all operations costs, including phone and internet costs to support travelers access to the traveler information. Around 2005-2010, private sector third-party mapping and navigation providers (e.g., Google Maps, Apple Maps, Waze) introduced their own services to deliver information through web and mobile application interfaces. These private sector led services benefited travelers and state DOTs in that third-party providers reached more travelers and provided traveler information without additional costs to the state DOTs. The third-party providers have their own sources of information and content; however, State DOTs operate online interfaces (typically XML data feeds) that also enable the third-party providers to access and use the reports from the DOTs as they deliver content to their users.

Traveler information today is provided by the state DOTs traveler information systems and third-party mapping and navigation providers on both desktops and mobile devices. NWP members' staff involved with traveler information have identified situations where the data provided for key disruptions (e.g., road closures, work zones, incidents) are not being displayed and/or updated on third-party information systems.

Previous Related NWP Projects

NWP members have completed the following two previous projects focused on addressing the challenges of mapping and navigation providers routing travelers onto unsafe routes.

- [Communicating Route Restricts to Third Party Mapping/Navigation Providers](#) (July 2023)
This project documented challenges experienced by NWP members that occur when travelers follow third-party routing advice and divert trips to unsafe routes. The project also engaged with third-party mapping and navigation providers to explore potential solutions to avoid or minimize situations where navigation systems advise drivers to divert onto inappropriate routes during highway closures or delays.
- [Providing Recommended Route to Mapping and Navigation Providers When There is a Closure on the Primary Route](#) (October 2024)
NWP completed this project to introduce and encourage member consideration and implementation of approaches that would provide information on local routes to mapping and navigation companies when there is a closure on the primary route, with the intent that this will reduce routing drivers on routes that may not be appropriate for travel.

In addition to these projects, NWP members were interested in learning how information provided from transportation agencies traveler information systems are displayed on third-party mapping and navigation provider applications.

Project Purpose

The purpose of this project, *Assessment: Third-Party Mapping/Navigation Providers Display of DOT Traveler Information Events*, was to assess how third-party mapping and navigation providers display traveler information events (e.g., road work, incidents, closures) from NWP member agencies' traveler information systems. This was accomplished through observations of traveler information events on NWP member states' road condition reporting systems and traveler information websites and correlating this to observations of third-party websites and mobile apps. It is important to note that best efforts were dedicated to observing the events by the researchers, but it was recognized that displays of events may have been happening but not always observed.

Project Purpose

To assess how third-party mapping and navigation providers display events from North/West Passage states' traveler information systems.

Overall Observations

At a high level, this project found that traveler information events displayed by third-party (e.g., navigation, mapping) providers did not consistently match events provided by NWP member states' traveler information reporting systems and sites. Further, a wide range of correlations to DOT-provided events in terms of type of information displayed, timing, event names, and event impact was observed with each third-party provider. For example, only one third-party provider displayed camera images from DOT traveler information feeds, yet camera images on DOT traveler information sites are one of the most highly accessed features by users, especially during inclement weather. In addition, third-party road condition reports and event impacts were not consistently correlated to DOT-generated information.

Unique events, for example “bridge opening” events that resulted in a temporary closure for highway traffic approaching the bridge in both directions, were observed to not be displayed by third-party providers.

Though only a small sample of events were reviewed in this project, these findings suggest that the accuracy and usefulness of third-party traveler information could possibly be improved with increased correlation with verified event information from state DOT traveler information systems.

Report Content

This report provides examples and observations of NWP member states’ traveler information events and how they were viewed on select established third-party websites and mobile apps.

The sections of this report include:

- [2. Assessment Approach](#) – Summarizes the approach used to assess how third-party mapping and navigation providers display NWP members’ traveler information event information.
- [3. Events Assessed](#) – Provides observations from the events reviewed for this assessment.
- [4. Project Summary, Key Observations, and Next Steps](#) – Includes an overall project summary and key observations and suggests next steps for NWP members to consider.

2. ASSESSMENT APPROACH

To understand how third-party mapping and navigation providers display NWP member agencies' traveler information events, the following questions were considered for the assessment.

- Are third-parties displaying all types of events provided by NWP member states?
- As events are updated by member states, are third parties displaying updates to the events?
- What is the timespan from when events are created or updated by NWP member states until they appear on the third-party sites?

To answer the questions above, an assessment form was developed to gather event details. The form provided fields for the event type (e.g., road work, incident, driving condition), event details (e.g., event date, event type, event times, impact, screenshots), and an indication of whether or not the events were observed on DOT and/or various third-party traveler information mechanisms. The form also encouraged screenshots showing the event displayed on the applicable traveler information mechanisms. See Figure 2-1.

| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|---|---------------|---|---|---|---|---|
| State | <input type="checkbox"/> ID <input type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | <<Name and email address>> | | | | | | |
| Event Date | <<Enter the month, date, and year>> | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input type="checkbox"/> Incident <input type="checkbox"/> Driving Condition <input type="checkbox"/> Other: <<Please describe>> | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/ATMS | DOT 511 | Google | Waze | Bing Maps | Apple Maps | Other <<Please describe>> |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report | <<Time>> | <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown |
| Updated | <<Time>> | <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown |
| Removed | <<Time>> | <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown |
| Event type provided (e.g., incident)? | N/A | N/A | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Impact described (e.g. lane closed)? | N/A | N/A | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Anything else to note about the event? | <<Provide any additional details about the event>> | | | | | | |

Screenshots and descriptions from the event:

Figure 2-1: Traveler Information Event Assessment Form

There were three different approaches used to gather event information.

- The project consultant monitored member state traveler information websites for events and then observed third-party desktop sites and applications.
- NWP member states tracked known events and observed third-party desktop sites and applications.

- NWP member states alerted the consultant of planned events to observe and track on third-party desktop sites and applications.

Each approach documented DOT event details and compared them to third-party provider details such as location of event, event type, event etc.

2.1 Third-Party Providers

There were four third-party traveler information desktop websites and/or mobile applications observed as part of this assessment.

Google Maps

[Google Maps](#) was observed mostly from desktops for this assessment. See Figure 2-2 for an example of a “crash” event displayed on the Google Maps website.

Bing Maps

[Bing Maps](#) was observed from desktops that included the option to select the “traffic” and/or Incidents” layer to display events. In addition, for some states camera locations and images were also displayed on the map that included the source of information (e.g., Minnesota DOT). See Figure 2-3.

Waze

The [Waze Live](#) desktop map was observed for the assessment. See Figure 2-4 for an example of a road construction event reported by iCone displayed on the Waze Live website.

The project was informed during this assessment from NWP member state, Minnesota, of the Closure and Incident Feed Specification (CIFS). The feed is a standard protocol for partners to share road closures and traffic incidents with Waze and Google Maps. It’s primarily used by transportation agencies, cities, and other partners in the Connected Citizens Program to provide real-time and planned event data. The Waze Connected Citizens Program (CCP) provides partners with access to a Partner Portal, which acts as a dashboard for

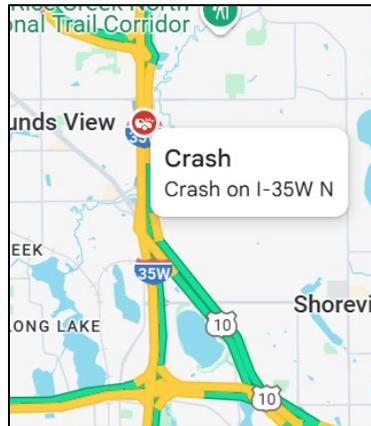


Figure 2-2: Google Desktop Crash Event Display (Screenshot: [Google Maps](#))

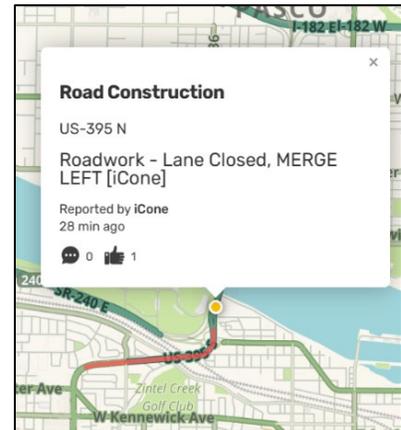


Figure 2-4: Waze Road Construction Event Reported by iCone Display (Screenshot 2.11.25: [Waze Live Map](#))

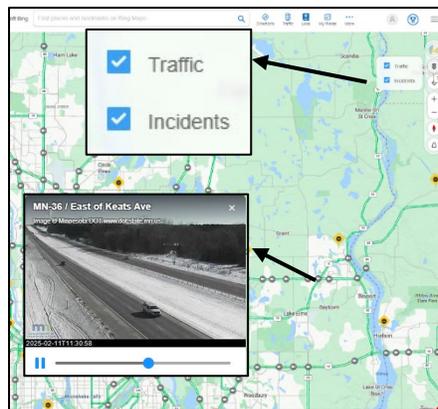


Figure 2-3: Bing Maps Desktop Display (Screenshot 2.11.25: [Bing Maps](#))

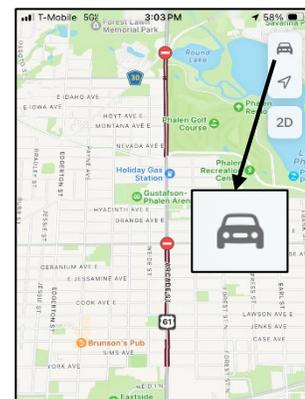


Figure 2-5: Apple Maps Mobile Application – Driving Layer (Screenshot 4.7.25)

managing the data exchange. Minnesota has adopted the CIFS-formatted data feed which has increased acceptance from the mid fifty percent range to the high ninety percent range.

Apple Maps

[Apple Maps](#) desktop was in a Beta phase during the assessment period for this project. The beta site did not provide events. However, the site provided users to get directions by entering a “From” and “To” location and selecting if the directions were for “now” or had the option to select a date as well as choose to avoid highways or tolls. The Apple Maps mobile app includes a “Driving Layer” where events were displayed. A few events were observed for this assessment by observing the mobile app. See Figure 2-5.

3. EVENTS ASSESSED

The intent of this assessment was to gather some examples of how NWP member state traveler information events are displayed on third-party sites. There were a total of 38 events observed from January – April 2025. The most events observed were incident events from Washington State DOT and Minnesota DOT. Minnesota and Washington also had the highest number of total events observed, as these states have larger urban areas where many of the events were reviewed compared to other member states. See Table 3-1.

Figure 3-1: Event types observed by NWP member state

| State | Event Type | | | | | | Total |
|--------------|------------|-------------|--------------|-------------------|--------------|--------------------------|-----------|
| | Incident | Road Work | Road Closure | Driving Condition | Test Events* | Other | |
| Idaho | 1 | 1 (Planned) | | | | 1 (Winter Storm Warning) | 3 |
| Minnesota | 6 | | 1 | | 4 | 1 (Stalled Vehicle) | 12 |
| Montana | 2 | | 1 (Wind) | 1 | | 1 (Winter Storm Warning) | 5 |
| North Dakota | | | 1 | | | | 1 |
| South Dakota | | 1 | | | | | 1 |
| Washington | 9 | 2 | | | | 2 (Boat Crossing) | 13 |
| Wyoming | 1 | | | 2 | | | 3 |
| Total | 19 | 4 | 3 | 3 | 4 | 5 | 38 |

*Preloaded test events (e.g., road work, incident, driving condition, local event) on a closed road test track (MnROAD).

It is important to note that, for this assessment, events were not observed onsite (i.e., the researchers were not in a vehicle using a mobile application and in the vicinity of the event). Rather, events were viewed remotely from desktops or mobile apps. It is understood that event observations on third-party sites from a desktop may be different from observations on a mobile app in a vehicle traveling through or approaching an event. It is also important to note that the observations documented in this report include only 38 events within a four-month period, a small subset of the total number of events that would have been reported and displayed by member states' traveler information mechanisms during this period. The intent of this project was to gain overall insights on how third-party traveler information providers are utilizing DOT-reported events. Details documented for each event observed and assessed are included in:

Observations were not onsite and were viewed remotely from desktops or mobile apps.

- Appendix A: [Events Observed – Washington State DOT](#)
- Appendix B: [Events Observed – Minnesota DOT](#)

- Appendix C: [Events Observed – Idaho Transportation Department](#)
- Appendix D: [Events Observed – Montana DOT](#)
- Appendix E: [Events Observed – South Dakota DOT](#)
- Appendix F: [Events Observed – North Dakota DOT](#)
- Appendix G: [Events Observed – Wyoming DOT](#)

From review of the events documented using the assessment form, the following observations were noted:

Event Text Description

- Overall, from the events observed, one third-party provider (Bing) displayed the same text for an event as the DOT’s traveler information system event. See Figure 3-2.

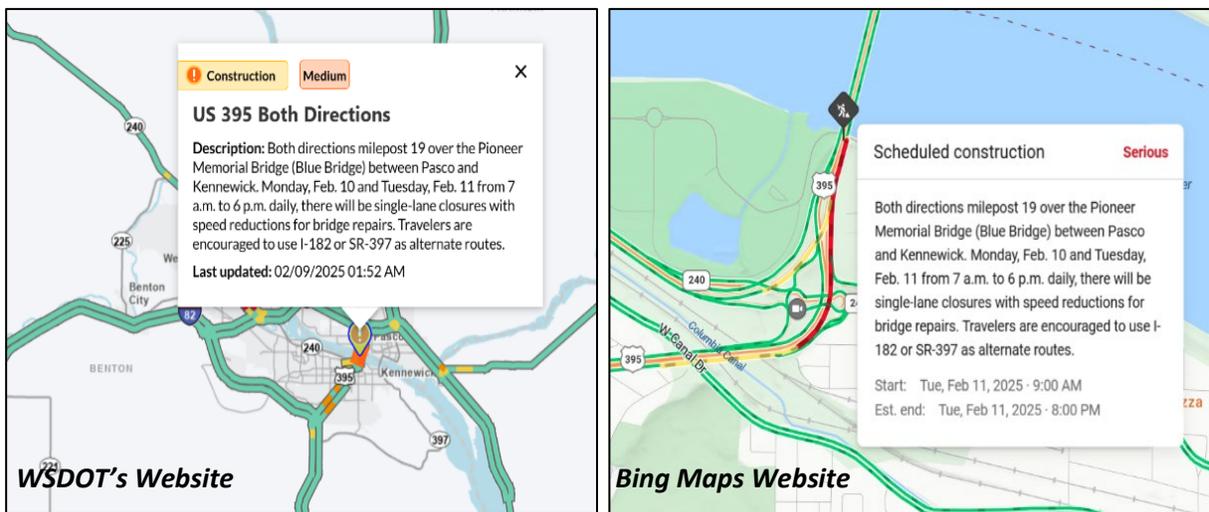


Figure 3-2: Same Text Description of a Construction Event on WSDOT’s Website and Bing website (Screenshots 2/11/25)

Event Types

- The **event type** (e.g., road work, incident, driving condition) was displayed by all third-provider providers (Apple, Bing, Waze, and Google) for all events observed in the assessment.
- NWP member states traveler information system’s use “**Incident**” as an event type. Third parties observed use “**Accident**” or “**Crash**” (Bing uses “**Accident**”, Google uses “**Crash**”, and Apple uses “**Crash**”). A “**Hazard**” icon (Apple mobile) was noted for an event from a member state that was reporting an incident with a road closure.
- **Bridge openings** for a boat crossing were posted on Washington DOT’s traveler information website but not observed on third party mapping/navigation websites. These bridge openings result in a temporary closure for highway traffic approaching the bridge in both directions. The duration of the two bridge opening events observed were each under 60 minutes. Even though an event was not displayed, some mapping/navigation websites indicated congestion at these locations.

- There were a couple of events observed for one member state (Wyoming) that provided “**Road Conditions**” by displaying “Wet Pavement Icy Patches” by one third party application (Waze live map). The source of information for these events was noted (Trihydro). Trihydro operates and maintains the Situation Data Exchange (SDX). The SDX is a centralized location for data retention and data distribution for Connected and Automated (CAV) information such as Traveler Information Messages (TIMs). Therefore, this represents that an event created by Wyoming DOT was routed through the SDX and received by the third-party system.
- **Planned road work** included on one NWP member state’s (Idaho) traveler information website was also displayed on three third party sites (Bing, Google, and Waze).
- **Congestion** was observed on all third-party sites (Bing, Google, Waze, and Apple Maps) and some displayed congestion before an icon appeared with event (e.g., Incident) information.

Event Impact

- One of the third-party providers (Bing) provides the event impact (e.g., lane closed) that matched the DOT event impact description. It was also observed that users of the Waze navigation app that contribute real-time traffic information include the event impact with their report.

Event Location

- One third-party provider displayed the location of a DOT event at the same location as the DOT site, for most events observed (Bing). There were a few events where another third-party provider displayed the event a half or mile or so from where the DOT reported the event or included multiple icons in the area of the event.

Event Duration

- Events posted on states’ traveler information sites for less than 5-minutes were observed on Waze within one minute with the source of the information from Wazers. The researchers did not observe other third-party sites displaying events from state’s traveler information sites that were less than 5-minutes in duration.

Event Source

- One third-party provider (Waze) provides the source of information for all events that are provided by external (i.e., non-Waze) sources. For this project other sources of information observed on one third-party providers site were from **iCone, HAAS Alerts, ITD, WYDOT via Trihydro, and Trihydro**. See Figure 3-3.

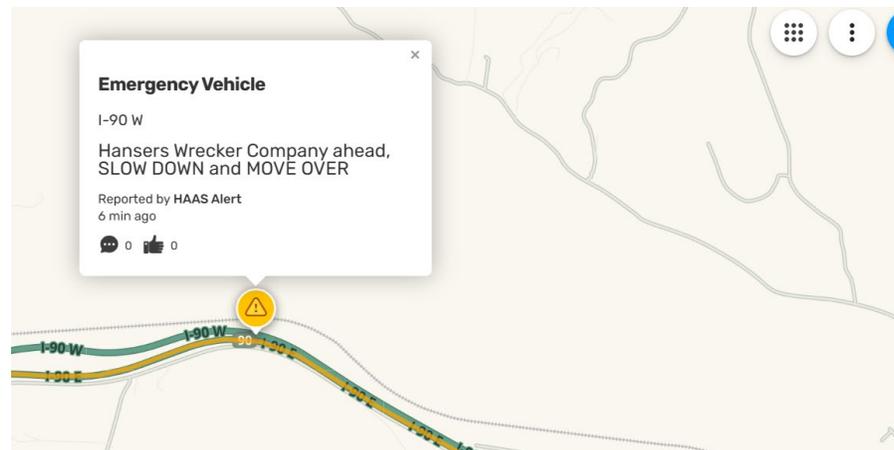


Figure 3-3: Waze event reported by HAAS Alert (Source: Waze Website Screenshot 2/6/25)

- For two observed events in Montana and Idaho, a winter storm warning was posted on one third-party provider site (Google) with the **National Weather Service** noted as the source of information.

Event Updates

- It was observed that one third-party provider (Bing) updates the event details that match the DOT event updates.

Test Events

- One NWP member state (Minnesota) preloaded four test events (e.g., road work, incident, driving condition, local event) over four days (February 18-21, 2025) to track how these events would display on third-party sites and applications. The test events were located on a closed road test track (MnROAD).
- The first test event on the first day was observed on two third-party sites (Bing and Waze). The events were not observed by researchers on any third-party sites for the other three tests. It is possible that because the events were entered by the member state as a “TEST,” in some instances the events may have been filtered out by third-party providers. In addition, one third-party provider (Apple Maps) does not show the MnROAD test track on their base map.

4. PROJECT SUMMARY, KEY OBSERVATIONS, AND NEXT STEPS

The purpose of this project was to assess how third-party mapping and navigation providers display traveler information events from NWP states' traveler information systems. This was accomplished by tracking known events, monitoring state traveler information websites for these events, and then observing third-party desktop sites and applications.

The events were not observed onsite (for example, approaching an event while driving). Rather, events were viewed remotely from desktops or mobile apps. It is understood that event observations on third-party sites from a desktop may be different from observations on a mobile app in a vehicle traveling through or approaching an event. It is also important to note that the observations documented in this report include only 38 events within a four-month period, a small subset of the total number of events that would have been reported and displayed by member states' traveler information mechanisms during this period. The intent of this project was to gain overall insights on how third-party traveler information providers are utilizing DOT-reported events.

See Figure 4-1 for a summary of event types observed for this project. The highest number of event types observed and assessed were incidents.

Figure 4-1: Number of events observed by event type

| Event Type | Number of Events |
|-------------------|------------------|
| Incident | 19 |
| Road Work | 4 |
| Road Closure | 3 |
| Driving Condition | 3 |
| Test Events | 4 |
| Other | 5 |
| Total | 38 |

This section provides overall key observations from review and assessment of DOT events displayed on third-party sites and suggests next steps for NWP members to consider.

4.1 Overall Observations

Thirty-eight (38) events were observed on NWP member states' traveler information sites and third-party providers sites from January – April 2025 to assist members in understanding how these events are displayed on third-party sites.

The following questions of interest to the NWP were answered from observing the events.

- Are third parties displaying all types of events provided by NWP member states?
 - For this assessment, examples of road work, incidents, road closures, and driving conditions from state DOT traveler information systems were displayed on third-party providers' sites though the event names and consistency of showing events varied by third-party provider.
- As events are updated by member states, are third parties displaying updates to the events?

- There was one third-party provider that displayed updates to the events observed by the researchers that match the DOTs updates (Bing). Other third-party providers may update the information, but it was difficult to determine as the event did not include a description or additional details when updated.
- What is the timespan from when events are created or updated by NWP members until they appear on the third-party sites?
 - Short term events (less than 5 minutes) observed on states' traveler information sites were also observed as events on Waze by Wazers.
 - It was difficult to provide an average time of when events were created or updated and then displayed as this varied for each example due to the duration it took researchers to view each individual third-party site.

In addition, other overall observations included:

- Of the 38 events observed, 19 were incidents. Incident events were easier to monitor (especially during urban area peak hours) and track. Most of these events were from Minnesota and Washington that have larger urban areas.
- There was one third-party provider observed that linked to cameras from the DOTs and noted the source of information (e.g., Minnesota DOT).
- NWP member states report road conditions, and generally road condition reports were not observed on third-party sites. There were only a few driving condition reports (e.g., Wet Pavement Icy Patches) viewed on third-party sites during the assessment period. In Wyoming, these events were cited as 'Trihydro', indicating that the source was Wyoming DOT and that the event was routed through the Trihydro operated SDX.
- Winter Storm Warnings provided by the NWS were also shown on some third-party sites, noting NWS at the source.
- Bridge opening (for boat crossing) events from DOT traveler information sites did not appear on third-party sites. These bridge openings result in a temporary closure for highway traffic approaching the bridge in both directions. Congestion was displayed at these locations, but an event was not associated with the congestion. It is possible that the event phrase "bridge opening" may not be a phrase third-party providers are looking for.
- NWP member states include the impact (e.g., lane closed) with an event. The impact for an event was provided by two third-party providers (Bing and Waze).
- One third-party provider's (Bing) location of an event typically coincided with the DOT location. However, the location of the event on another third-party provider's map was not observed to closely coincide with the DOTs reported location or the sites displayed multiple icons for the event.
- One third party provider (Waze) displays the source of information for all events that are provided by external (i.e., non-Waze) sources. For this project other sources of information observed on one third-party provider's site were from iCone, HAAS Alerts, ITD, WYDOT via

Driving condition events were routed through the Trihydro-operated SDX in Wyoming.

Trihyrdo, and Trihydro. One third-party provider's (Bing) events were updated as the DOT events were updated. Other third-party providers may also update events, but it was difficult to observe since the third-party providers' event descriptions typically did not include as much detail at the DOT's description.

- The project was informed during this assessment that one third-party provider (Waze) has a preferred specification format. After adapting to the specification, one NWP member state (Minnesota) increased the acceptance of reports by the third-party provider from the mid fifty percent range to the high ninety percent range

At a high level, this project found that traveler information events displayed by third-party (e.g., navigation, mapping) providers do not consistently match events that are provided by NWP member states' traveler information reporting systems and sites. Further, a wide range of correlations to DOT-provided events in terms of type of information displayed, timing, event names, and event impact was observed with each third-party provider. For example, only one third-party provider displays camera images from DOT traveler information feeds, yet camera images on DOT traveler information sites are one of the most highly accessed features by users especially during inclement weather. In addition, third-party road condition reports and event impacts aren't consistently correlated to DOT-generated information. Unique events, for example "bridge opening" events that result in a temporary closure for highway traffic approaching the bridge in both directions, were often not recognized by third-party providers.

Though only a small sample of events were reviewed in this project, these findings suggest that the accuracy and usefulness of third-party traveler information could possibly be improved with increased correlation with verified event information from state DOT traveler information systems.

4.2 Next Steps

This project resulted in observations of 38 traveler information events on member states' traveler information sites and third-party providers sites. North/West Passage members can use the information gathered in several ways.

1. Distribute this summary report to ITS staff and traveler information staff within member agencies.
2. Each member state reviews the details of their events assessed in this project, to determine if coordination is needed with third-party providers to ingest DOT events (e.g., data feed reestablished with a third-party provider).
3. Consider a second phase NWP project to continue to assess events and identify next steps for member states to coordinate or confirm that third parties are ingesting DOT data or what is needed for third-parties to ingest traveler information event data from DOTs.

Overall, this project documented 38 event examples of information displayed on member states' traveler information sites and third-party providers' sites. The intent was to begin to understand how DOT traveler information events are displayed on third-party sites for a select number of examples. The observations for this project are example specific and may not apply if additional examples are continued to be assessed.

APPENDIX A: EVENTS OBSERVED – WASHINGTON STATE DOT

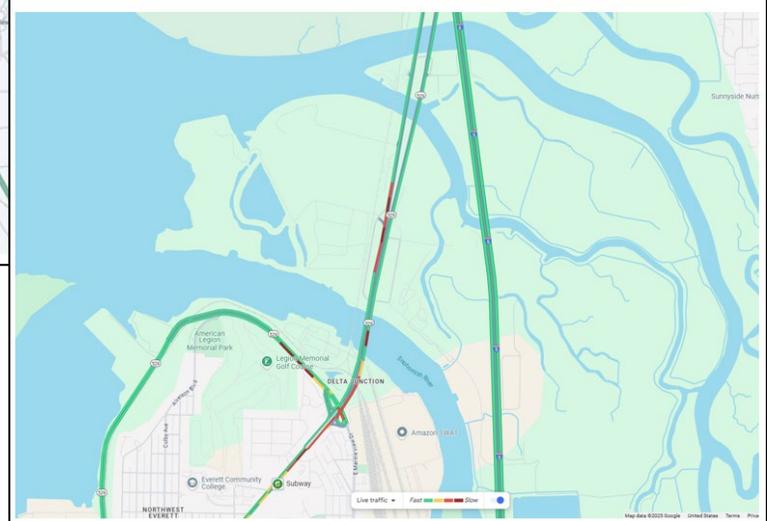
WASHINGTON EVENT 1: OTHER - BRIDGE OPENING (FOR BOAT CROSSING) 2/12/25

| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|--|--|--|---|--|--|----------------------------------|
| State | <input type="checkbox"/> ID <input type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input checked="" type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | NWR TMC – Sayuri Koyamatsu | | | | | | |
| Event Date | 02/12/2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input type="checkbox"/> Incident <input type="checkbox"/> Driving Condition <input checked="" type="checkbox"/> Other: Bridge Opening (for boat crossing) | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/ NG Incident | DOT 511/ https://www.wsdot.com/Travel/Real-time/Map/ | Google https://www.google.com/maps | Waze www.waze.com/live | Bing Maps https://www.bing.com/maps/ (Select traffic or incident layer) | Apple Maps https://beta.maps.apple.com/ | Other «Please describe» |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report Time | 14:03 | 14:05 | <input checked="" type="checkbox"/> Not shown | <input checked="" type="checkbox"/> Not shown | <input checked="" type="checkbox"/> Not shown | | <input type="checkbox"/> Unknown |
| Updated Time | [24-hour time] | [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | | |
| Closed/Removed Time | 14:56 | 14:56 | | | | | |
| Event type provided (e.g., collision, incident, etc.) | Boat Traffic | Boat Traffic | | | | | |
| Impact described (e.g. lane closed)? | All lanes, Both Directions | All lanes, Both Directions | <input checked="" type="checkbox"/> No | <input checked="" type="checkbox"/> No | <input checked="" type="checkbox"/> No | | |
| Anything else to note about the event? | <ul style="list-style-type: none"> Maybe the category "Boat Opening" isn't one of the event types to get picked up by 3rd party. Are there other agencies with movable bridges that use a different category name that shows up? | | | | | | |

WSDOT Real-time map:



1436 – still no icon for an incident on Google Maps but showing congestion building while the bridge is closed to traffic:



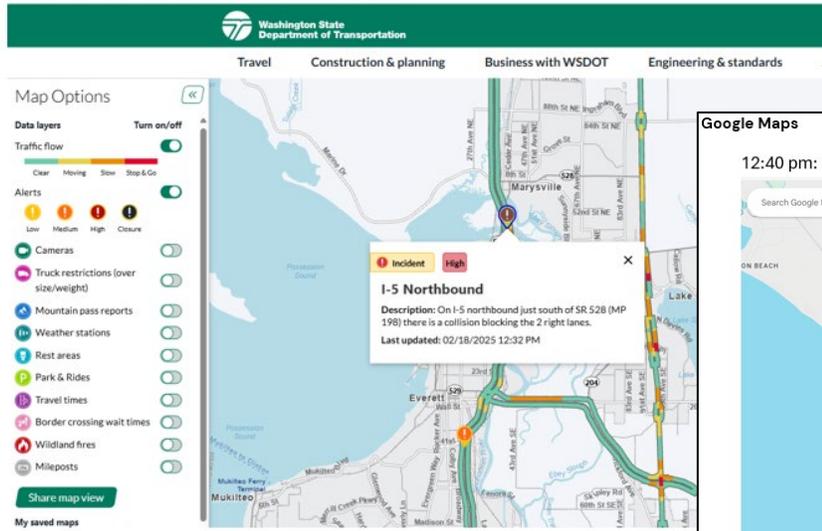
WASHINGTON EVENT 2: INCIDENT (I5NB JS SR 528) 2/18/25

| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|--|--|---|---|--|--|---------------------------|
| State | <input type="checkbox"/> ID <input type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input checked="" type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | NWR TMC – [Romulos Ragudos, Jr.] | | | | | | |
| Event Date | 02/18/2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input checked="" type="checkbox"/> Incident <input type="checkbox"/> Driving Condition <input type="checkbox"/> Other: <<Please describe>> | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/ NG Incident | DOT 511/ https://wsdot.com/Travel/Real-time/Map/ | Google https://www.google.com/maps | Waze www.waze.com/livemap | Bing Maps https://www.bing.com/maps/ (Select traffic or incident layer) | Apple Maps https://beta.maps.apple.com/ | Other <<Please describe>> |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report Time | [12:30] | [12:32] | <input type="checkbox"/> Not shown Or [12:42] | <input type="checkbox"/> Not shown Or [12:31, 12:37] | <input type="checkbox"/> Not shown Or 12:37 | | |
| Updated Time | [24-hour time] | [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | | |
| Closed/Removed Time | [13:28] | [13:30] | <input type="checkbox"/> Not shown Or [13:42] | <input checked="" type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [13:33] | | |
| Event type provided (e.g., collision, incident, etc.) | <input checked="" type="checkbox"/> Yes [Collision] <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes [Incident] <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes [Crash] <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes [Road Hazard, Observed Police] <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes [Accident] <input type="checkbox"/> No | | |
| Impact described (e.g. lane closed)? | <input checked="" type="checkbox"/> Yes [Lane 1, and Merge Ramp] <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes [2 Right Lanes] <input type="checkbox"/> No | <input type="checkbox"/> Yes [Impact Described] <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes [Impact Described] <input checked="" type="checkbox"/> No | <input checked="" type="checkbox"/> Yes [2 Right Lanes] <input type="checkbox"/> No | | |
| Anything else to note about the event? | <ul style="list-style-type: none"> • Bing Maps – Appears to be showing same information as WSDOT Travel Maps and updates when we update TMC Incidents • Incident Cleared – 13:28 | | | | | | |

WSDOT Travel Map

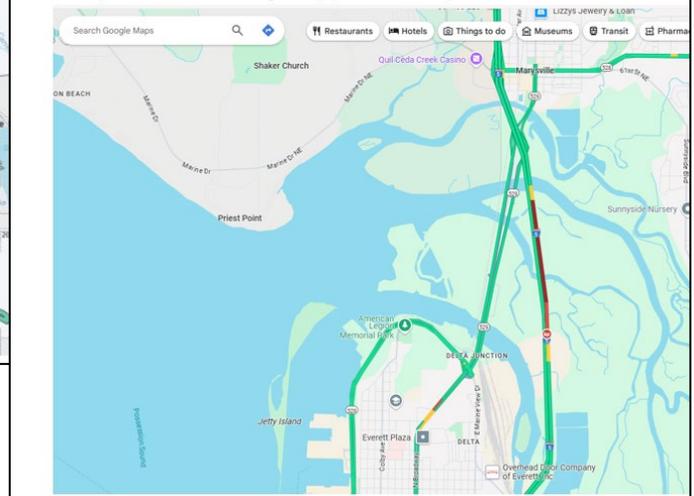
12:30 pm: WSDOT Observed

12:32 pm: Observed on WSDOT Travel Map

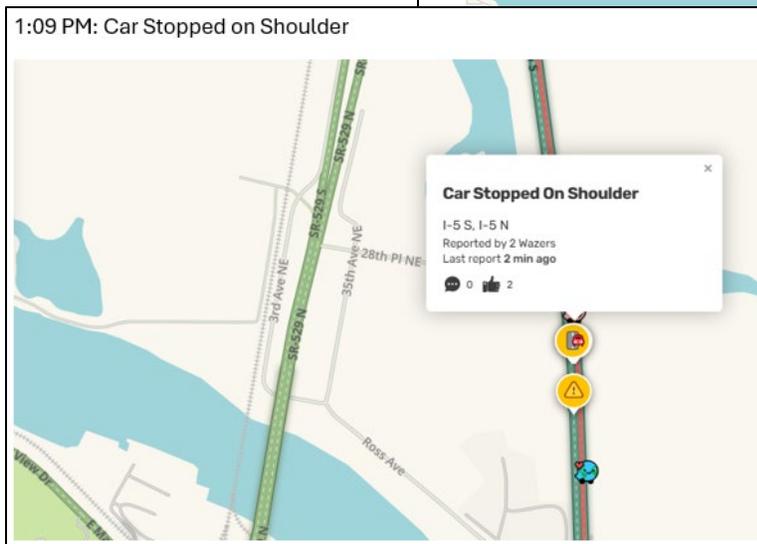
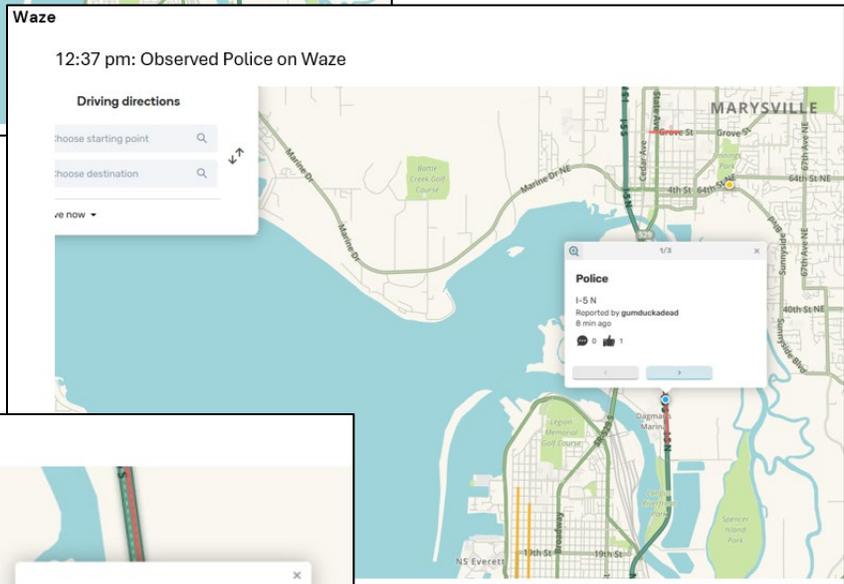
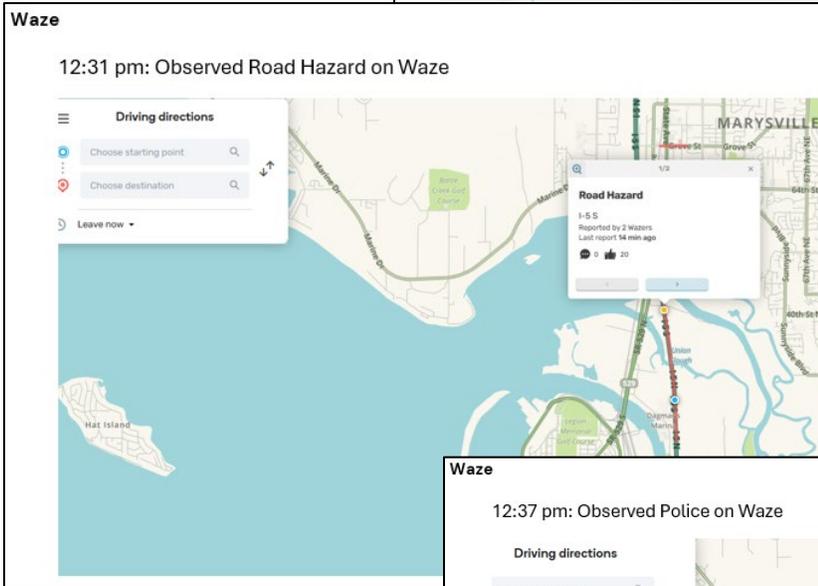
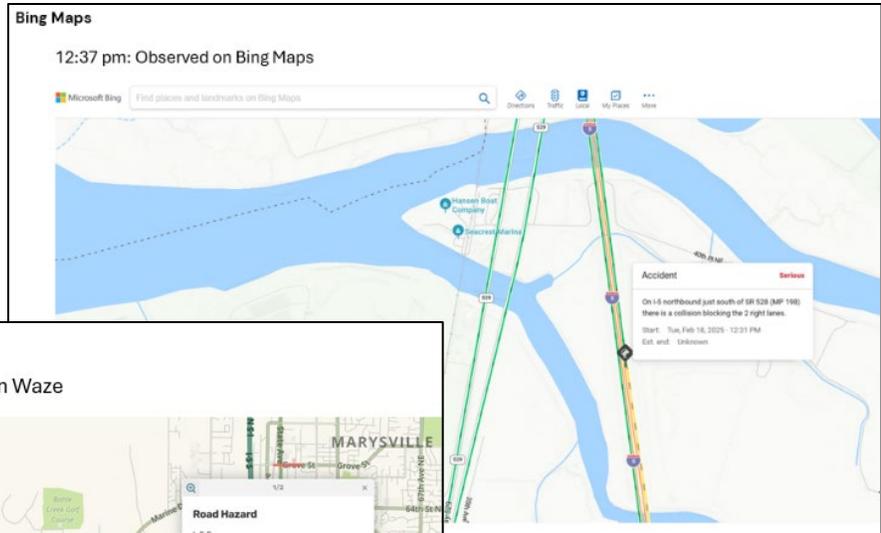


Google Maps

12:40 pm: Observed on Google Maps, but incident symbol is South of the Incident



Assessment: Third-Party Mapping/Navigation Providers Display of DOT Traveler Information Events
Project 19.3 FINAL Report



WASHINGTON EVENT 3: INCIDENT (\$5 AT BOEING ACC ROAD) 2/18/25

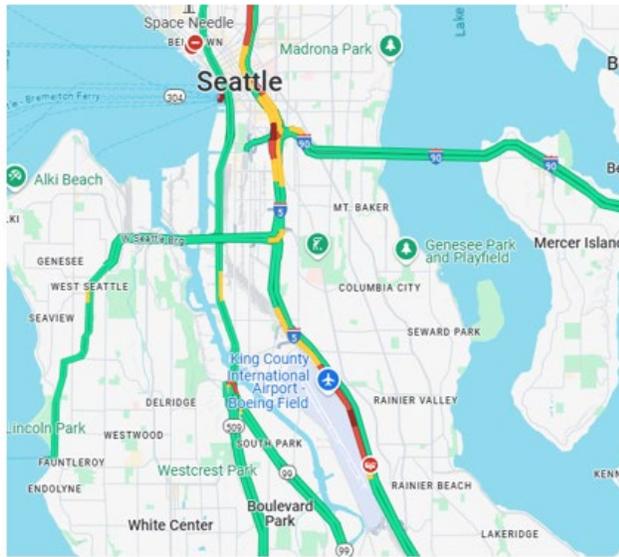
| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|--|---|--|---|--|---|---------------------|
| State | <input type="checkbox"/> ID <input type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input checked="" type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | NWR TMC – [Romulos Ragudos, Jr.] | | | | | | |
| Event Date | 02/18/2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input checked="" type="checkbox"/> Incident <input type="checkbox"/> Driving Condition <input type="checkbox"/> Other: | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/NG Incident | DOT 511/ | Google | Waze | Bing Maps | Apple Maps | Other |
| | https://wsdot.com/Travel/Real-time/Map/ | https://wsdot.com/Travel/Real-time/Map/ | https://www.google.com/maps | www.waze.com/livemap | https://www.bing.com/maps/ (Select traffic or incident layer) | https://beta.maps.apple.com/ | <<Please describe>> |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report Time | [14:28] | [14:29] | <input type="checkbox"/> Not shown Or [14:37] | <input type="checkbox"/> Not shown Or [14:31] | <input checked="" type="checkbox"/> Not shown | | |
| Updated Time | [24-hour time] | [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input checked="" type="checkbox"/> Not shown Or [24-hour time] | | |
| Closed/Removed Time | [16:15] | [16:16] | <input checked="" type="checkbox"/> Not shown Or [] | <input checked="" type="checkbox"/> Not shown Or [24-hour time] | <input checked="" type="checkbox"/> Not shown Or [] | | |
| Event type provided (e.g., collision, incident, etc.) | <input checked="" type="checkbox"/> Yes [Incident] <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes [Incident] <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes [Crash] <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes [Police] <input type="checkbox"/> No | <input type="checkbox"/> Yes [] <input checked="" type="checkbox"/> No | | |
| Impact described (e.g. lane closed)? | <input checked="" type="checkbox"/> Yes [Lane 1] <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes [Lanes 1] <input type="checkbox"/> No | <input type="checkbox"/> Yes [] <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes [Impact Described] <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes [] <input checked="" type="checkbox"/> No | | |
| Anything else to note about the event? | <ul style="list-style-type: none"> WSP blocked lanes 1-4 during incident (Shooting), after 14:44 WSP holding Lane 1 Incident Cleared – 16:15 | | | | | | |

WSDOT Travel Map

14:28 pm: WSDOT Observed
14:29 pm: Observed on WSDOT Travel Map

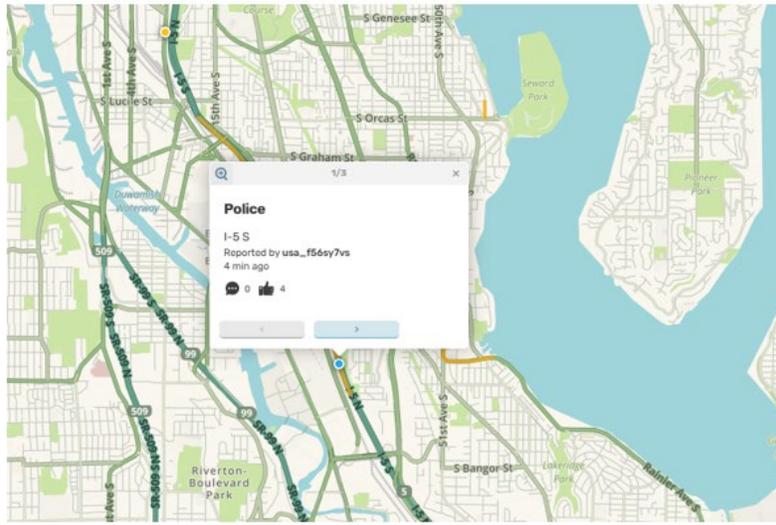
Google Maps

14:37 pm: Observed on Google Maps



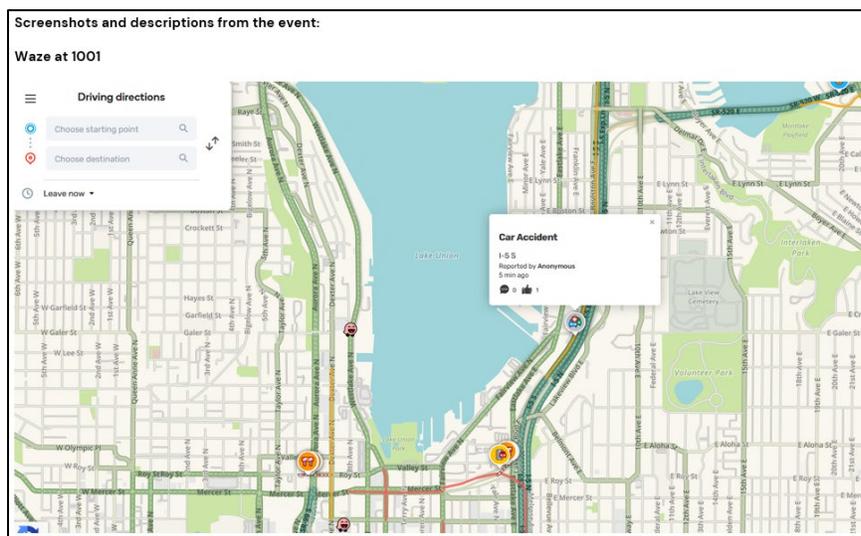
Waze

14:31 pm: Observed Road Hazard on Waze



WASHINGTON EVENT 4: INCIDENT (S I-5 MERCER) 2/13/25

| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|---|---|---|--|---|---|----------------------------|
| State | <input type="checkbox"/> ID <input type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input checked="" type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | NWR TMC – John Granillo–Dodds | | | | | | |
| Event Date | 02/13/2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input checked="" type="checkbox"/> Incident <input type="checkbox"/> Driving Condition <input type="checkbox"/> Other: 3-car collision S-5 just north of Mercer | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/NG_Incident | DOT 511/ https://wsdot.com/Travel/Real-time/Map/ | Google https://www.google.com/maps | Waze www.waze.com/live-map | Bing Maps https://www.bing.com/maps/ (Select traffic or incident layer) | Apple Maps https://beta.maps.apple.com/ | Other «Please describe» |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report Time | 0952 | 0957 | <input checked="" type="checkbox"/> Not shown Or [24-hour time] | 0955 | <input checked="" type="checkbox"/> Not shown Or [24-hour time] | | |
| Updated Time | [24-hour time] | [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | | |
| Closed/Removed Time | 0957 | 0959 | <input type="checkbox"/> Not shown Or [24-hour time] | 1005 | <input type="checkbox"/> Not shown Or [24-hour time] | | |
| Event type provided (e.g., collision, incident, etc.) | <input checked="" type="checkbox"/> Yes Collision | <input checked="" type="checkbox"/> Yes [Event type] <input type="checkbox"/> No | <input type="checkbox"/> Yes [Event type] <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes Car accident | <input type="checkbox"/> Yes [Event type] <input type="checkbox"/> No | | |
| Impact described (e.g. lane closed)? | <input checked="" type="checkbox"/> Yes On I-5 southbound just north of Mercer St (MP 167) there is a collision blocking the 2 right lanes. The Incident Response Team and the State Patrol have arrived on the scene. | <input checked="" type="checkbox"/> Yes [Impact Described] <input type="checkbox"/> No | <input type="checkbox"/> Yes [Impact Described] <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes [Impact Described] <input type="checkbox"/> No | | |
| Anything else to note about the event? | • Cleared quickly so didn't impact traffic much | | | | | | |



WASHINGTON EVENT 5: INCIDENT (I-5 SB @ UNION ST) 2/16/25

| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|--|---|--|--|--|--|---------------------------|
| State | <input type="checkbox"/> ID <input type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input checked="" type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | NWR TMC – Brandon Do | | | | | | |
| Event Date | 02/16/2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input checked="" type="checkbox"/> Incident <input type="checkbox"/> Driving Condition <input type="checkbox"/> Other: Incident I-5 SB @ Union St | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/NO Incident | DOT 511/Traffic Map | Google https://www.google.com/maps | Waze www.waze.com/livemap | Bing Maps https://www.bing.com/maps/ (Select traffic or incident layer) | Apple Maps https://beta.maps.apple.com/ | Other <<Please describe>> |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report Time | 1513 | 1513 | | 1523 | | | |
| Updated Time | [24-hour time] | [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | | |
| Closed/Removed Time | 1528 | 1530 | | 1534 | | | |
| Event type provided (e.g., collision, incident, etc.) | <input checked="" type="checkbox"/> Yes Incident <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes Incident <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input checked="" type="checkbox"/> Yes Car Stopped on Shoulder <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| Impact described (e.g. lane closed)? | <input checked="" type="checkbox"/> Yes Blocking center lane <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes Blocking center lane <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| Anything else to note about the event? | <ul style="list-style-type: none"> Waze reported "Car on shoulder" despite vehicle blocking active lanes | | | | | | |

Incident reported to State Patrol at 15:11 for vehicle lost by car hauler

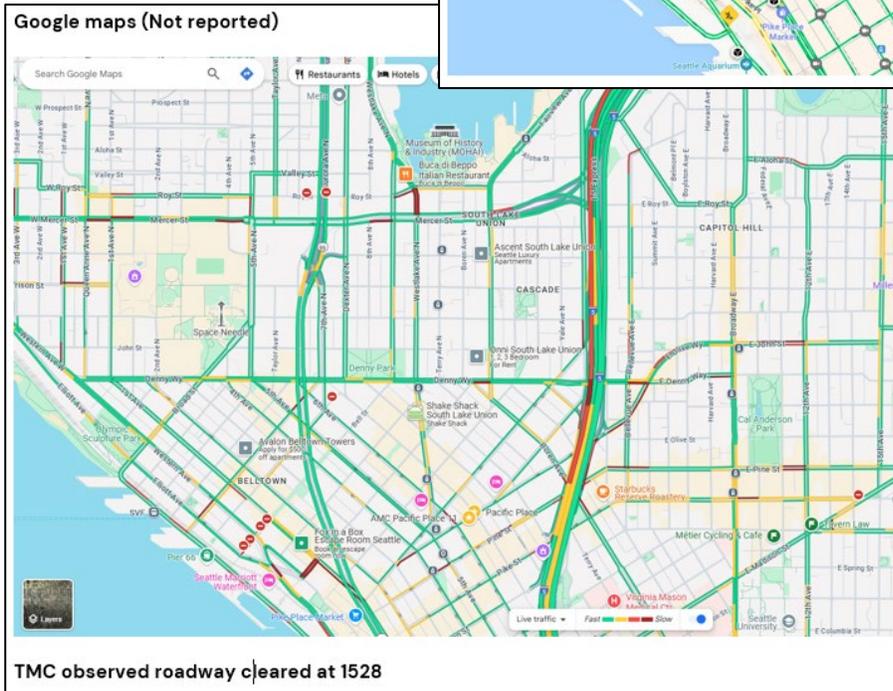
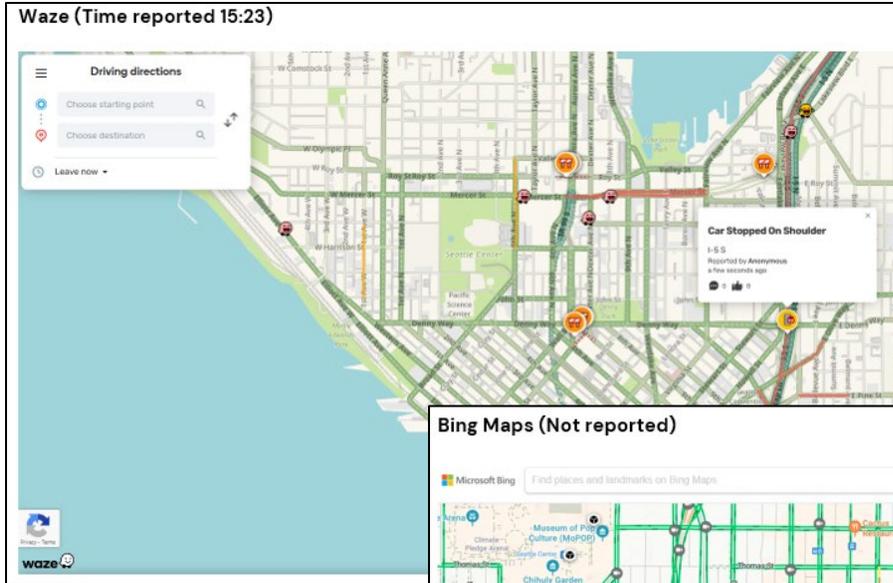
WSDOT Travel Map (Incident initiated 15:13)



WSDOT Traffic X account (Auto posted at 15:14)

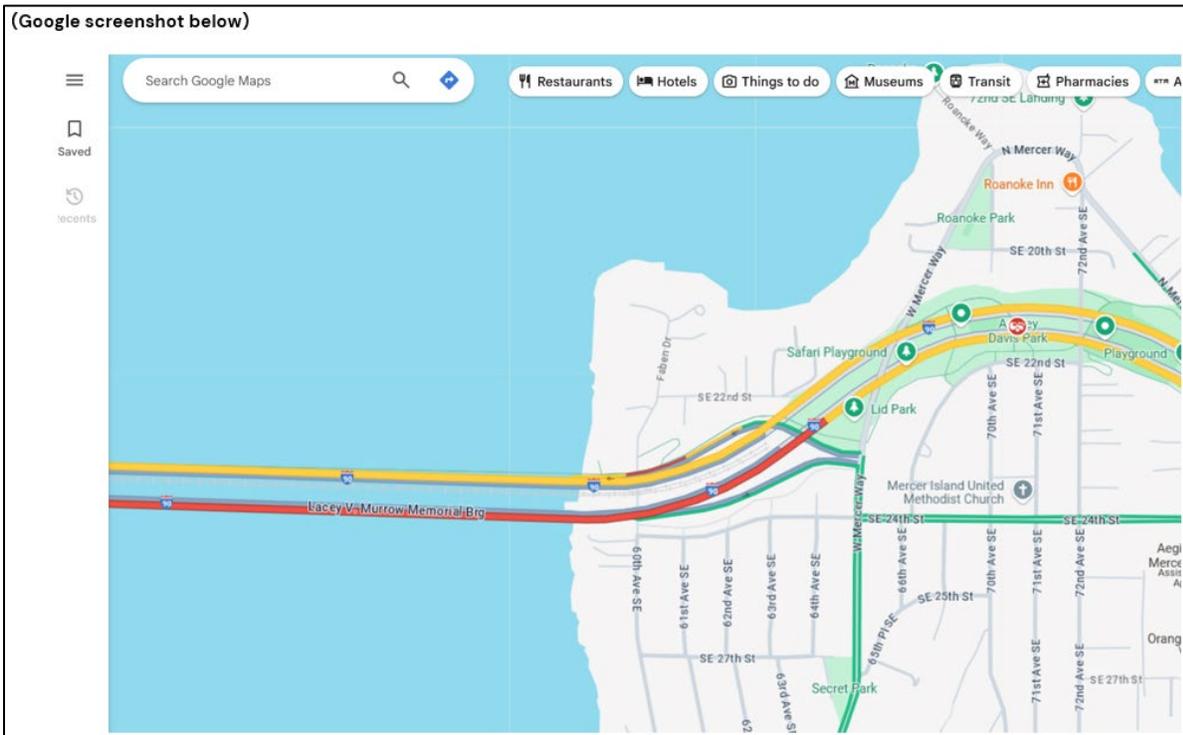


Assessment: Third-Party Mapping/Navigation Providers Display of DOT Traveler Information Events
Project 19.3 FINAL Report



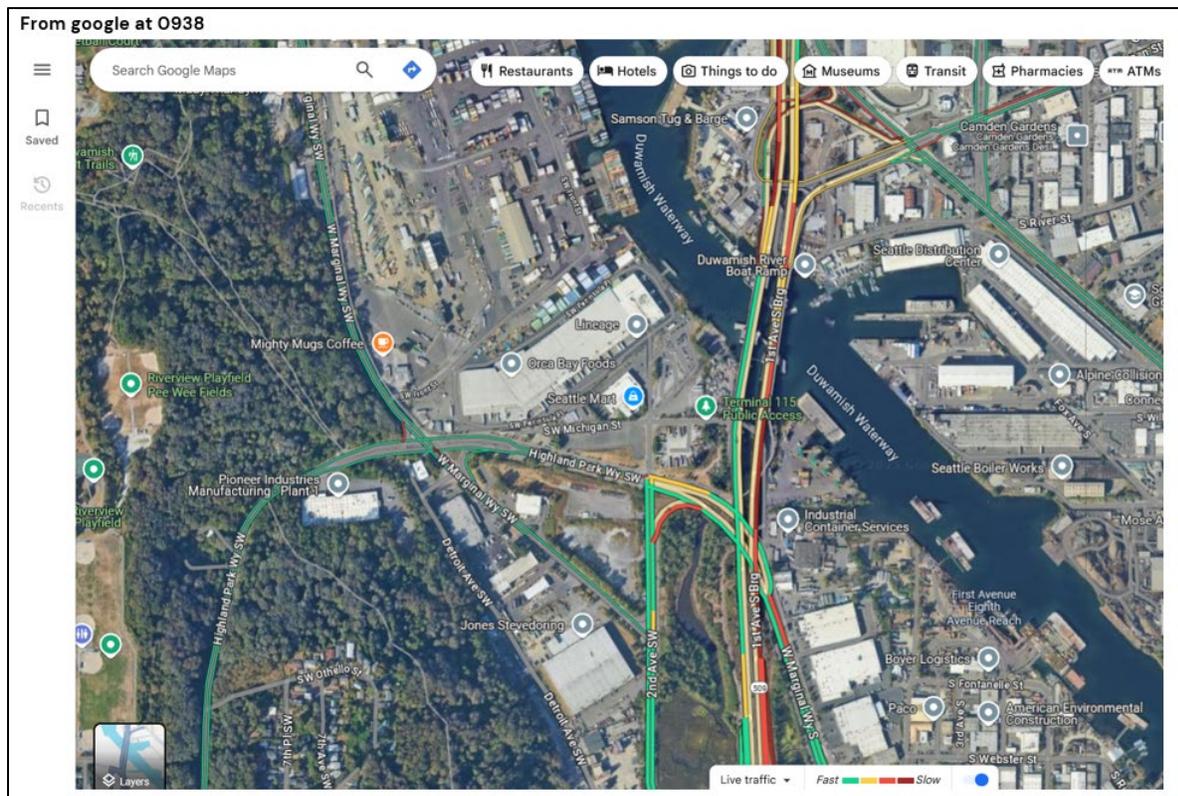
WASHINGTON EVENT 6: INCIDENT (I-90 EB @ W MERCER WAY) 2/13/25

| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|---|--|---|--|--|--|----------------------------|
| State | <input type="checkbox"/> ID <input type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input checked="" type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | NWR TMC – John Granillo–Dodds | | | | | | |
| Event Date | 02/13/2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input checked="" type="checkbox"/> Incident <input type="checkbox"/> Driving Condition <input type="checkbox"/> Other: Collision I-90 EB @ W Mercer Way | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/NG Incident | DOT 511/ https://wdot.com/Travel/Real-time/Map/ | Google https://www.google.com/maps | Waze www.waze.com/livemap | Bing Maps https://www.bing.com/maps/ (Select traffic or incident layer) | Apple Maps https://beta.maps.apple.com/ | Other «Please describe» |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report Time | 0801 | 0804 | 0808 | 0758 | 0816 | | |
| Updated Time | [24-hour time] | [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | | |
| Closed/Removed Time | 0820 | 0820 | 0830 | 0823 | 0820 | | |
| Event type provided (e.g., collision, incident, etc.) | <input checked="" type="checkbox"/> Yes Collision <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes Collision <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes Crash <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes Car Accident <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes Accident – Serious <input type="checkbox"/> No | | |
| Impact described (e.g. lane closed)? | <input checked="" type="checkbox"/> Yes Blocking right lane <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes Blocking right lane <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input checked="" type="checkbox"/> Yes Blocking right lane <input type="checkbox"/> No | | |
| Anything else to note about the event? | <ul style="list-style-type: none"> Waze user reported the incident before WSDOT received it in CAD Bing maps text was a direct quote of WSDOT verbiage Google reported the incident about half a mile east of where it <u>actually</u> was | | | | | | |



WASHINGTON EVENT 7: OTHER – BRIDGE OPENING (1ST AVE BRIDGE) 2/13/25

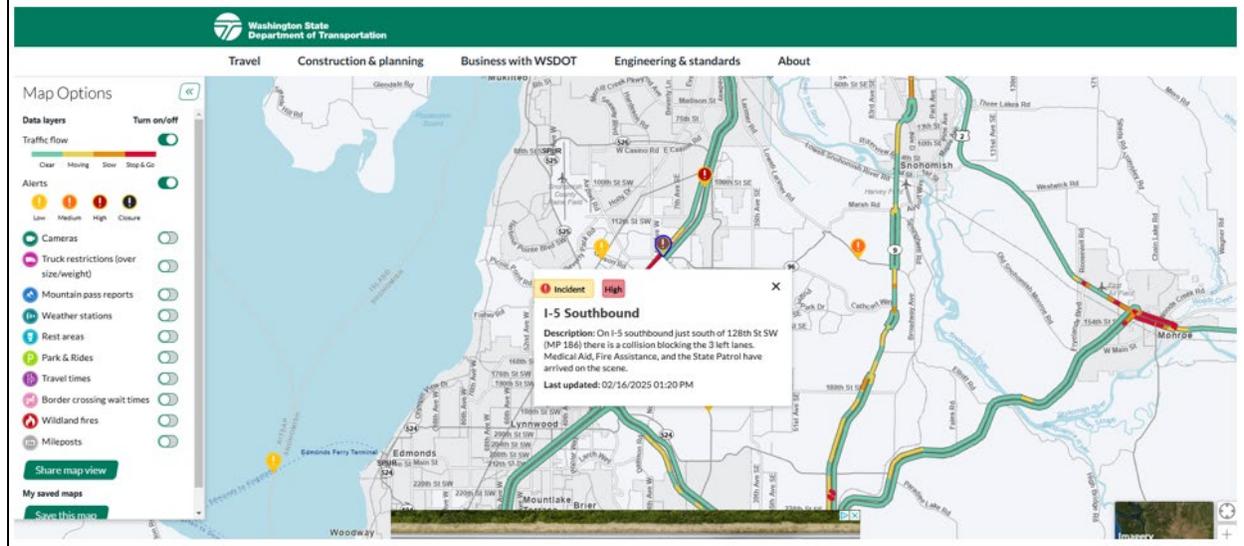
| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|--|--|---|---|--|--|----------------------------|
| State | <input type="checkbox"/> ID <input type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input checked="" type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | NWR TMC – John Granillo–Dodds | | | | | | |
| Event Date | 02/13/2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input type="checkbox"/> Incident <input type="checkbox"/> Driving Condition <input checked="" type="checkbox"/> Other: 1 st Ave bridge opening | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/ NG_Incident | DOT 511/ https://wsdot.com/Travel/Real-time/Map/ | Google https://www.google.com/maps | Waze www.waze.com/livemap | Bing Maps https://www.bing.com/maps/ (Select traffic or incident layer) | Apple Maps https://beta.maps.apple.com/ | Other «Please describe» |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report Time | 0927 | 0929 | <input checked="" type="checkbox"/> Not shown | <input checked="" type="checkbox"/> Not shown | <input checked="" type="checkbox"/> Not shown | | |
| Updated Time | [24-hour time] | [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | | |
| Closed/Removed Time | 0941 | 0943 | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | | |
| Event type provided (e.g., collision, incident, etc.) | <input checked="" type="checkbox"/> Yes Boat traffic <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes [Event type] <input type="checkbox"/> No | <input type="checkbox"/> Yes [Event type] <input type="checkbox"/> No | <input type="checkbox"/> Yes [Event type] <input type="checkbox"/> No | <input type="checkbox"/> Yes [Event type] <input type="checkbox"/> No | | |
| Impact described (e.g. lane closed)? | <input checked="" type="checkbox"/> Yes All lanes closed <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes [Impact Described] <input type="checkbox"/> No | <input type="checkbox"/> Yes [Impact Described] <input type="checkbox"/> No | <input type="checkbox"/> Yes [Impact Described] <input type="checkbox"/> No | <input type="checkbox"/> Yes [Impact Described] <input type="checkbox"/> No | | |
| Anything else to note about the event? | <ul style="list-style-type: none"> • No third-party apps noticed, but traffic did slow down | | | | | | |



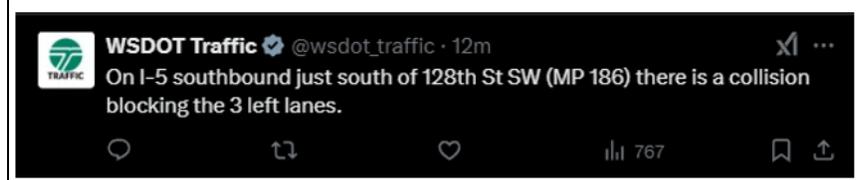
WASHINGTON EVENT 8: INCIDENT (I-5 SB at 128th ST SW) 2/16/25

| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|---|---|---|--|--|--|---------------------------|
| State | <input type="checkbox"/> ID <input type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input checked="" type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | NWR TMC – Brandon Do | | | | | | |
| Event Date | 02/16/2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input checked="" type="checkbox"/> Incident <input type="checkbox"/> Driving Condition <input type="checkbox"/> Other: Collision I-5 SB @ 128 th St SW | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/ NG Incident | DOT 511/Traffic Map https://wsdot.com/Travel/Real-time/Map/ | Google https://www.google.com/maps | Waze www.waze.com/live-map | Bing Maps https://www.bing.com/maps/ (Select traffic or incident layer) | Apple Maps https://beta.maps.apple.com/ | Other <<Please describe>> |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report Time | 1315 | 1318 | 1326 | 1318 | 1318 | | |
| Updated Time | [24-hour time] | [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | | |
| Closed/Removed Time | 1421 | 1423 | 1506 | 1429 | 1428 | | |
| Event type provided (e.g., collision, incident, etc.) | <input checked="" type="checkbox"/> Yes Collision <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes Collision <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes Crash <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes Car Accident <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes Accident - Serious <input type="checkbox"/> No | | |
| Impact described (e.g. lane closed)? | <input checked="" type="checkbox"/> Yes Blocking 3 left lanes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes Blocking 3 left lanes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input checked="" type="checkbox"/> Yes Blocking 3 left lane <input type="checkbox"/> No | | |
| Anything else to note about the event? | <ul style="list-style-type: none"> • Bing maps text was a direct quote of WSDOT verbiage • Collision event initially reported as slowdown/congestion on Google and Bing before being updated to collision/crash • Google reported 3 collision markers on the map, each 1 mile apart. | | | | | | |

WSDOT Travel Map (Incident initiated 13:18)

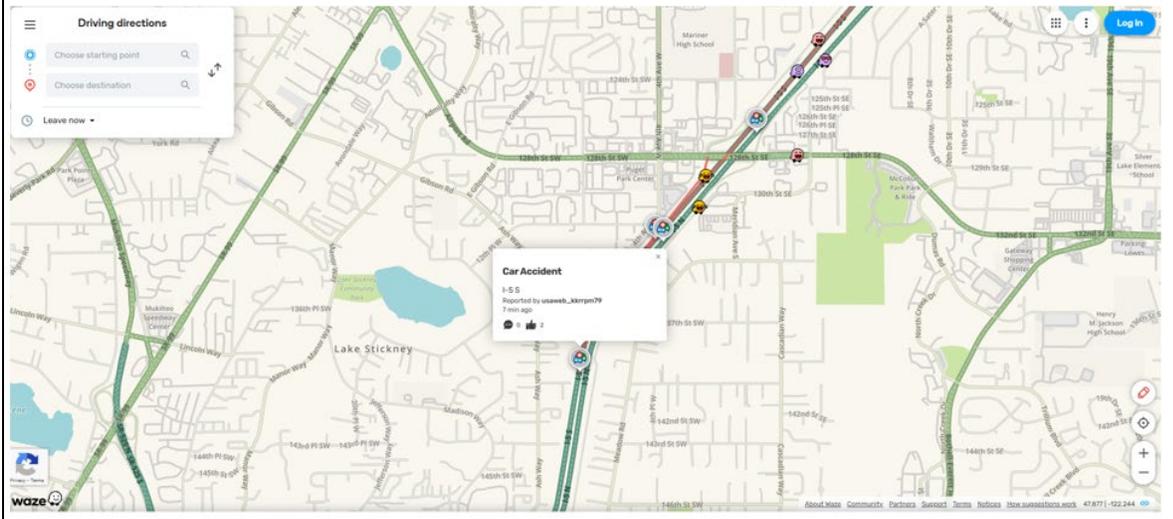


WSDOT Traffic X account (Auto posted at 1325)

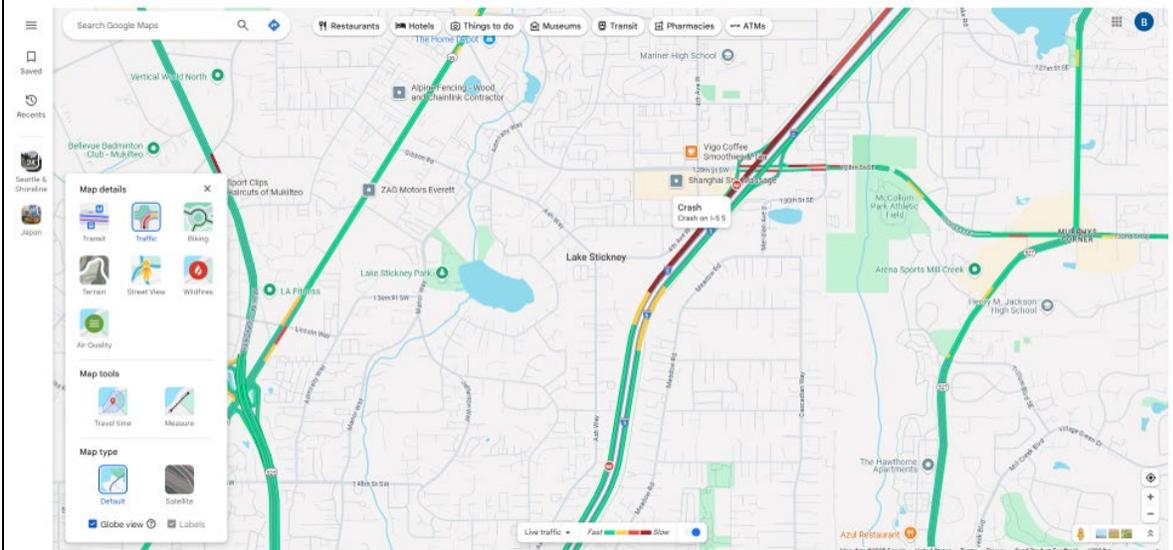


Assessment: Third-Party Mapping/Navigation Providers Display of DOT Traveler Information Events
Project 19.3 FINAL Report

Waze (Time reported 13:18)



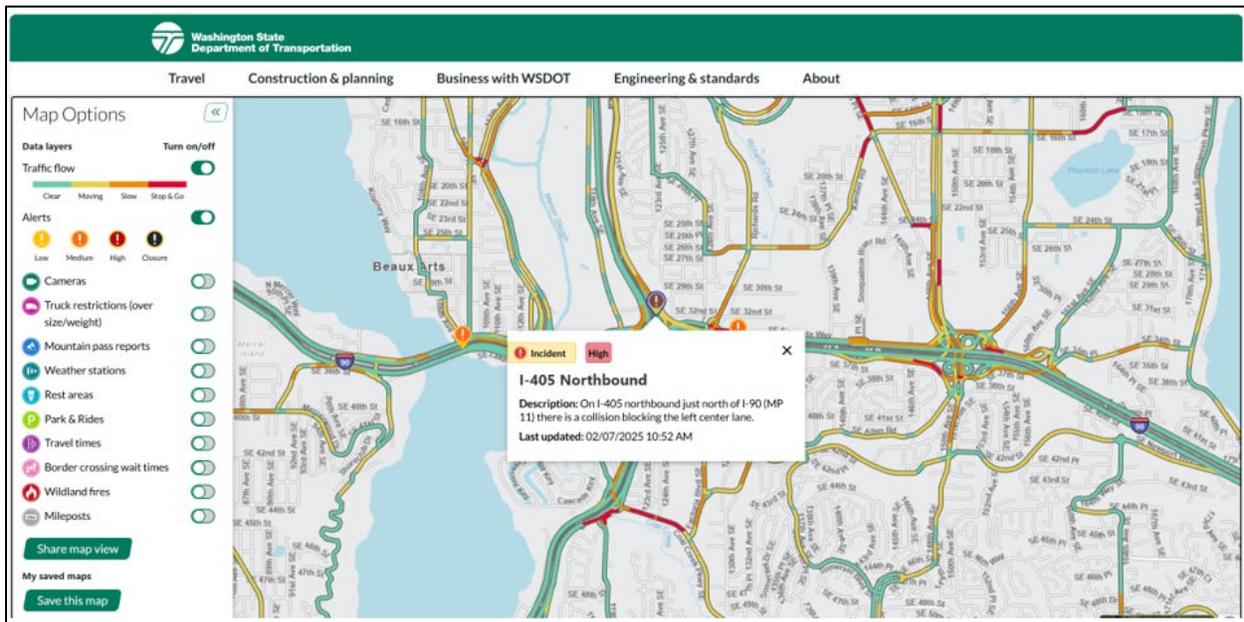
Google maps (Time reported 13:26)



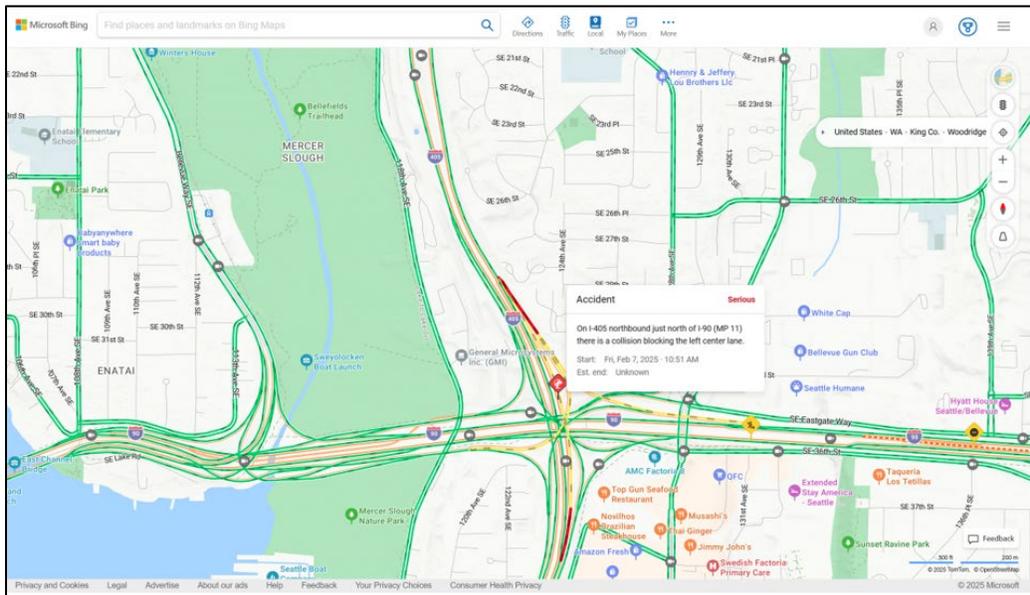
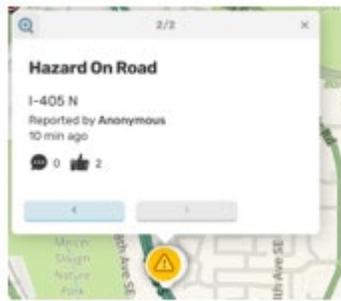
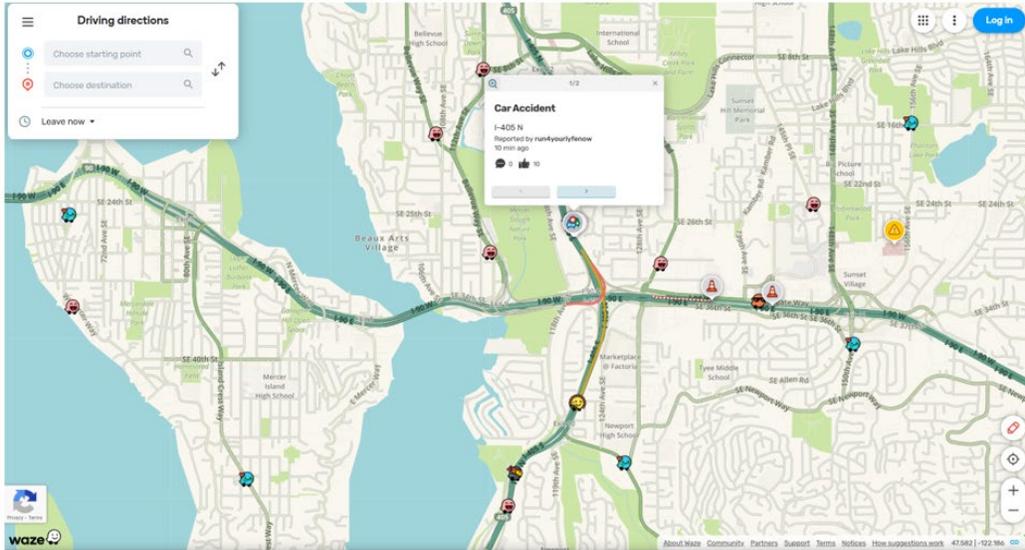
TMC observed roadway cleared at 1421

WASHINGTON EVENT 9: INCIDENT 2/7/25

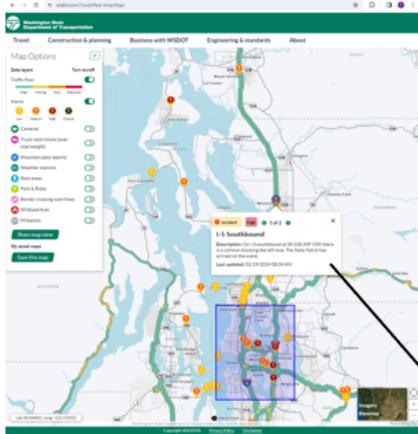
| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|--|---|---|--|---|---|----------------------------------|
| State | <input type="checkbox"/> ID <input type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input checked="" type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | NWR TMC – Sayuri Koyamatsu | | | | | | |
| Event Date | 02/07/2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input checked="" type="checkbox"/> Incident <input type="checkbox"/> Driving Condition <input type="checkbox"/> Other: <<Please describe>> | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/ NG Incident Actual Time Entered | DOT 511/ https://wsdot.com/Travel/Real-time/Map/ Observed Time | Google https://www.google.com/maps | Waze www.waze.com/livemap | Bing Maps https://www.bing.com/maps/ (Select traffic or incident layer) | Apple Maps https://beta.maps.apple.com/ | Other <<Please describe>> |
| Initial Report Time | 10:51 | 10:52 | 10:52 | 10:52 | 10:52 | <input type="checkbox"/> Not shown | <input type="checkbox"/> Unknown |
| Updated Time | [24-hour time] | [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | <input type="checkbox"/> Not shown Or [24-hour time] | |
| Closed/Removed Time | 10:59 | 10:59 | 11:13 | 10:59 | 11:03 | | |
| Event type provided (e.g., collision, incident, etc.) | Collision | Collision | Crash | Car Accident and Hazard on Road | Accident (Serious) | | |
| Impact described (e.g. lane closed)? | Left Center lane | Left Center lane | <input checked="" type="checkbox"/> No | <input checked="" type="checkbox"/> No | Left Center lane | | |
| Anything else to note about the event? | <ul style="list-style-type: none"> The icon location varies slightly depending on the map | | | | | | |



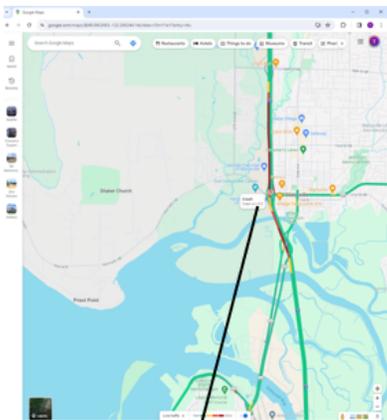
Assessment: Third-Party Mapping/Navigation Providers Display of DOT Traveler Information Events
Project 19.3 FINAL Report



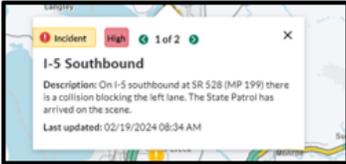
WASHINGTON EVENT 10: INCIDENT 2/19/24

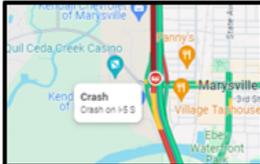


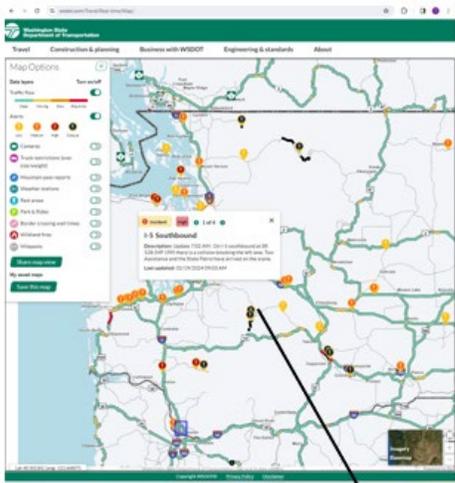
Screenshot: WSDOT Traveler Information Website 2/19/24
 8:44 am
 8:56, 9:04 no update



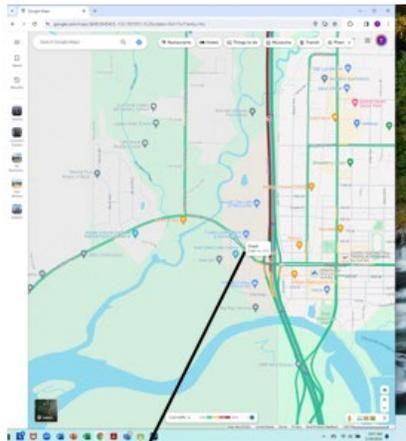
Screenshot: Google Maps Website 2/19/24 8:44 am
 8:56, and 9:04 no update



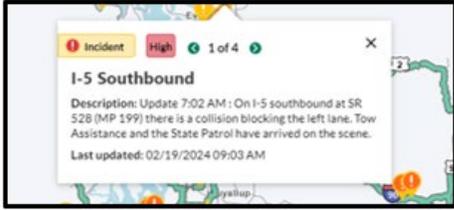


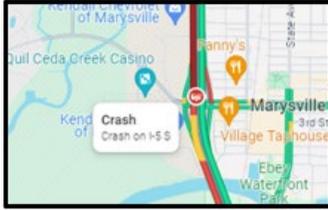


9:03 am – 9:30 am
 description change

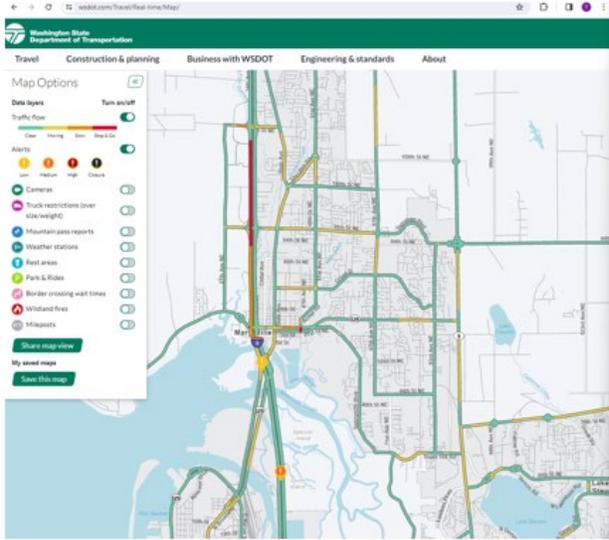


Screenshot: Google Maps Website 2/19/24 9:03 am

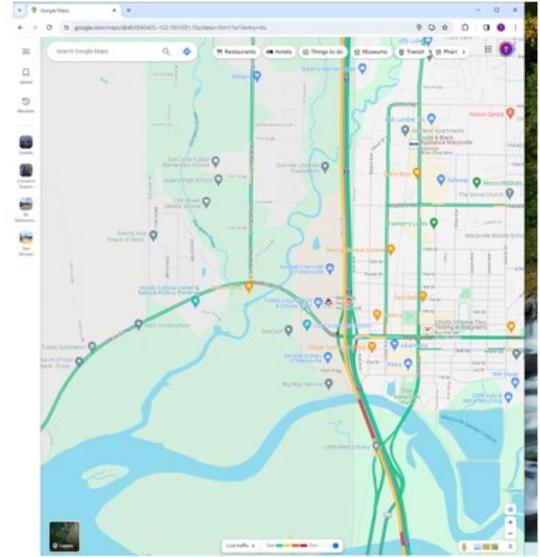




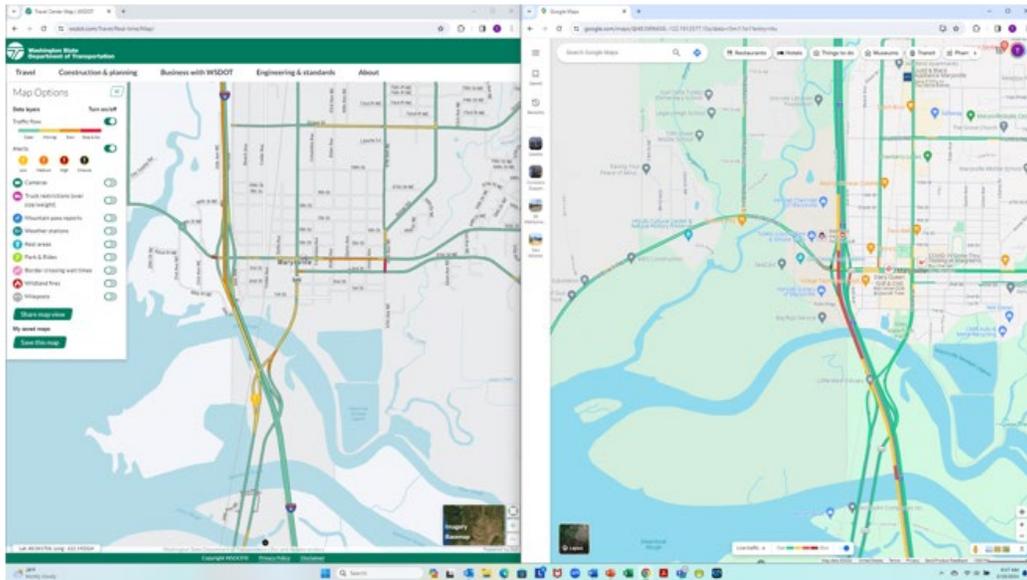
Screenshot: Google Maps Website
2/19/24 9:46 am, removed



9:44 – icon removed, red traffic



Screenshot: Google Maps Website
2/19/24 9:48 am



9:48 – icon removed, red traffic

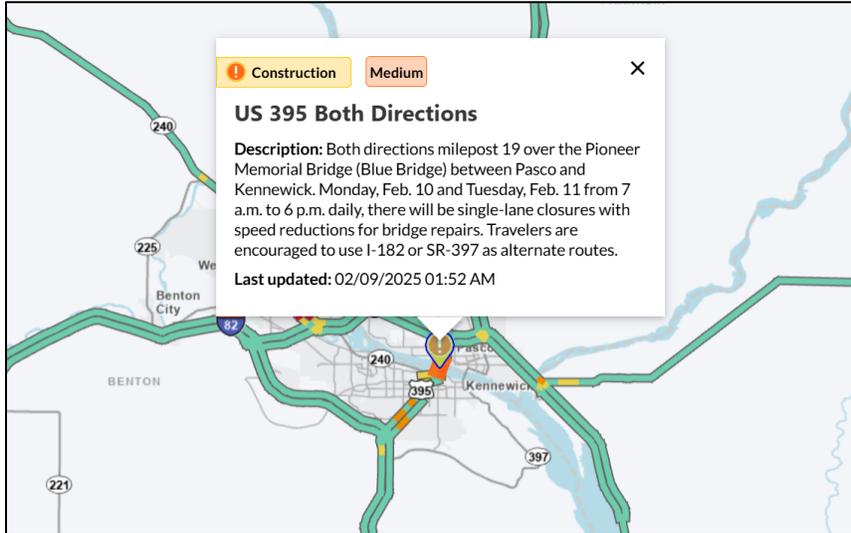
WASHINGTON EVENT 11: ROAD WORK (US 395 IN BOTH DIRECTIONS) 2/11/25

WSDOT's Website

Construction scheduled for 2/10/25 and 2/11/25 from 7 a.m. to 6 p.m. daily.

Construction observed on 2/11/25 at 10:40 a.m. and 5:45 p.m.

Observed removed at 11:50 p.m.

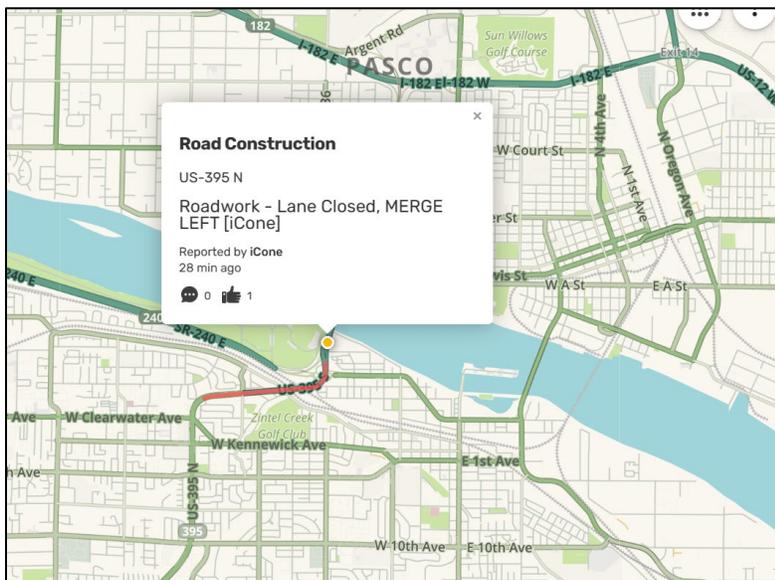


Waze

Waze (reported by iCone) showed road construction.

Observed at 10:47 am, 11:54 am, 3:37 pm, and 5:33 pm where the Road Construction icon remained.

When observed at 11:57 pm the icon had been removed.

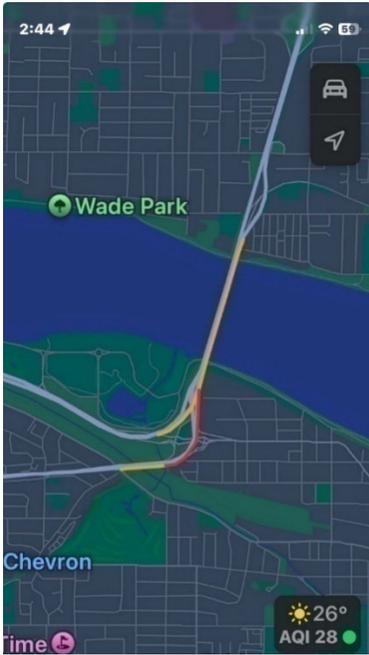


Google

Typical traffic speed designations were observed but no icon to designate Construction was noted throughout the day.

Apple Maps

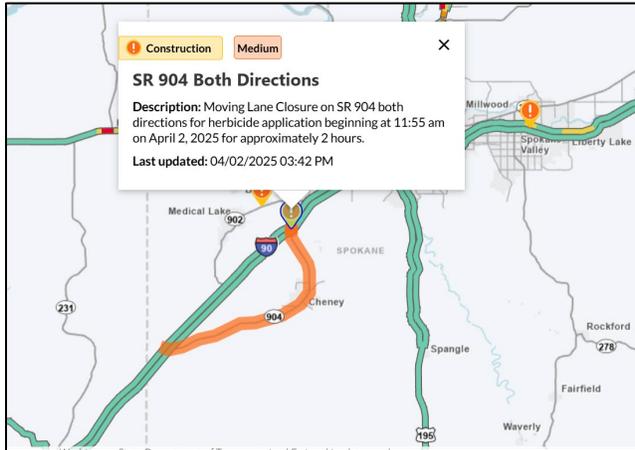
Though not designated as Construction, Apple Maps (mobile) did show increased traffic in the area. Observed at 2:44 p.m.



WASHINGTON EVENT 12: ROAD WORK (SR 904 IN BOTH DIRECTIONS) 4/2/25

WSDOT's Website

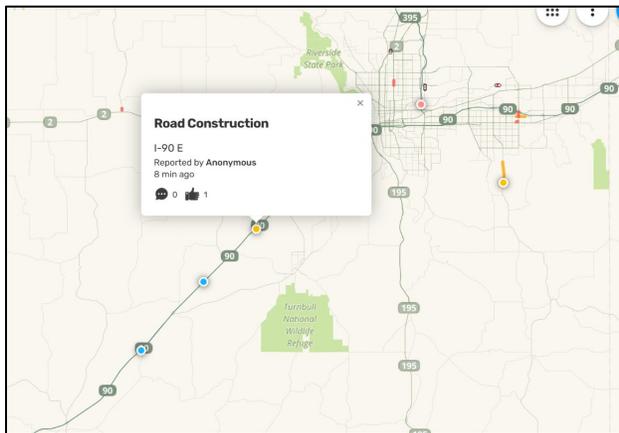
This construction project was observed on WSDOT's Website at 2:34 pm and 3:52 pm on 4/2/25.



Waze

A Wazer road construction report was reflected on the Waze map. Observed at 3:23 p.m.

Wazers also reported a police presence which was observed at 2:40 p.m. and a hazard on the road, observed at 3:53 p.m.



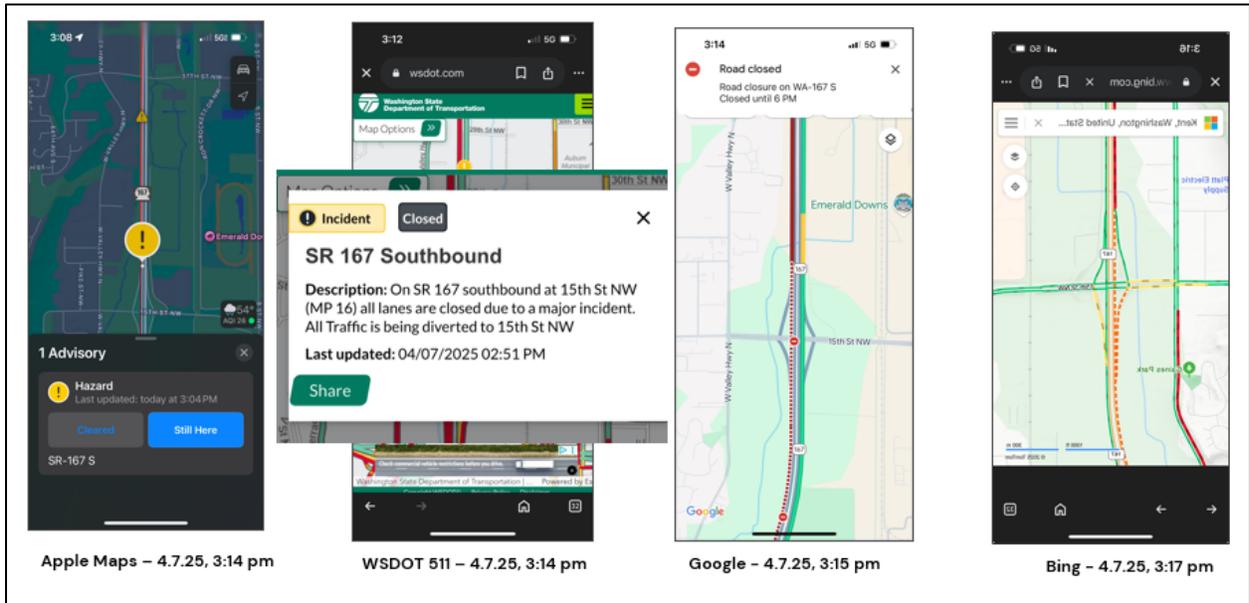
Google

Google was reviewed but did not display any icons related to construction during the observation times.

Bing

Bing map was reviewed but did not display any icons related to construction during the observation times.

WASHINGTON EVENT 13: INCIDENT (167S) 4/7/25



APPENDIX B: EVENTS OBSERVED – MINNESOTA DOT

MINNESOTA EVENT 1: INCIDENT 1/29/25

| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|---|--|--|---|--|--|---|
| State | <input type="checkbox"/> ID <input checked="" type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | Athey Creek | | | | | | |
| Event Date | 1.29.25 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input checked="" type="checkbox"/> Incident <input type="checkbox"/> Driving Condition <input type="checkbox"/> Other: <<Please describe>> | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/ATMS | DOT 511 | Google <small>https://www.google.com/maps</small> | Waze <small>www.waze.com/live</small> | Bing Maps <small>https://www.bing.com/maps/ (Select traffic or incident layer)</small> | Apple Maps <small>https://beta.maps.apple.com/</small> | Other <small><<Please describe>></small> |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report | MSP Report 11:54 am MnDOT Report 12:51 pm | 1:03 pm | <input checked="" type="checkbox"/> Not shown 1:03 pm | <input checked="" type="checkbox"/> Not shown 1:06 pm | <input checked="" type="checkbox"/> Observed 1:08 pm | <input checked="" type="checkbox"/> Unknown | |
| Updated | | | | | | | |
| Removed | | MSP Report: 1:31 pm MnDOT Report: 2:30 pm | <input checked="" type="checkbox"/> Not shown 1:29 pm | <input checked="" type="checkbox"/> Not shown 1:29 pm | <input checked="" type="checkbox"/> Observed 1:31 pm | | |
| Event type provided (e.g., incident)? | N/A | N/A | | | <input checked="" type="checkbox"/> Yes | | |
| Impact described (e.g. lane closed)? | N/A | N/A | | | <input checked="" type="checkbox"/> No | | |
| Anything else to note about the event? | <ul style="list-style-type: none"> Outstate Incident - Individual <u>Wazer</u> reported and shown as a "Police" icon at 1:06 pm and was observed removed at 1:29 pm. Bing Maps described the event as an "accident" | | | | | | |

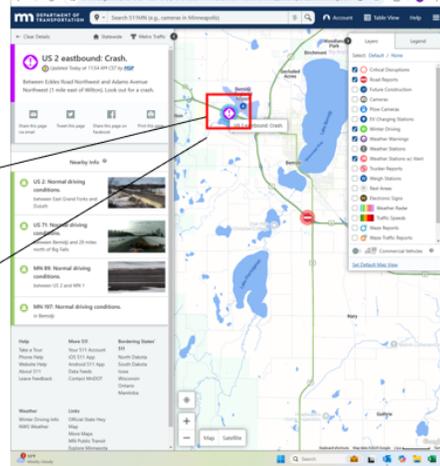
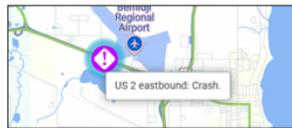
Observations

- 511 MSP Event
 - Event posted at 11:54 am. Event observed expired at 1:31 pm
 - There was no end time noted in the description
- 511 MnDOT Event
 - Event posted at 12:51 pm, with end time of 2:30 pm
 - Event removed at 2:30 pm
- Google
 - Event not shown
- Waze
 - Event not shown, however there was a Wazer report in this outstate area of MN
- Bing
 - Event started at 11:27 am (before MSP and MnDOT event) with an estimated end time of 1:30 pm, observed removed at 1:31 pm
 - Event Type noted as "accident"
 - Captured location correctly

• Screenshots and descriptions from the event:

- 11:54 am: MSP Report
- 1:04 pm: Observed by Athey Creek

US 2 eastbound: Crash.
Updated Today at 11:54 AM CST by MSP
Between Eckles Road Northwest and Adams Avenue Northwest (1 mile east of Wilton). Look out for a crash.

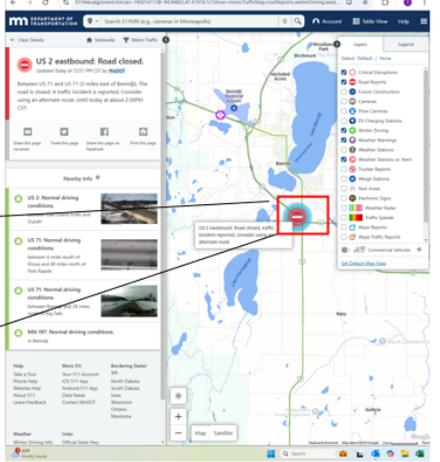
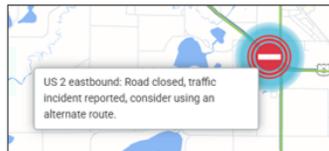


Screenshot: MnDOT 511

• Screenshots and descriptions from the event:

- 12:51 pm: MnDOT Report
- 1:03 pm: Observed by Athey Creek

US 2 eastbound: Road closed.
Updated Today at 12:51 PM CST by MnDOT
Between US 71 and US 71 (3 miles east of Bemisj). The road is closed. A traffic incident is reported. Consider using an alternate route. Until today at about 2:30PM CST.

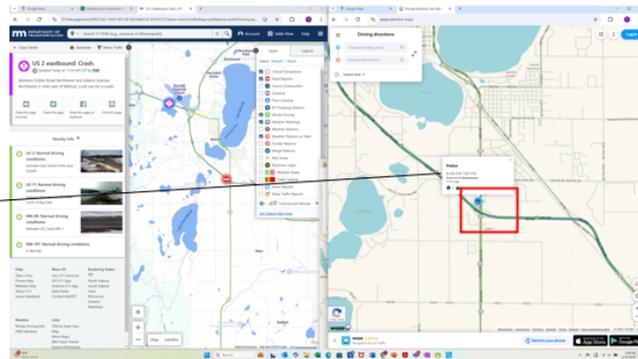
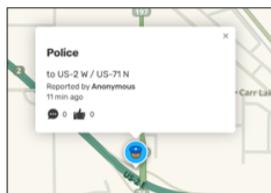


Screenshot: MnDOT 511

• Screenshots and descriptions from the event:

- 1:06 pm: Observed by Athey Creek on Waze (Police Icon)

NOTE: This is a report from a Wazer in oustate MN. NOT from information from the MnDOT.

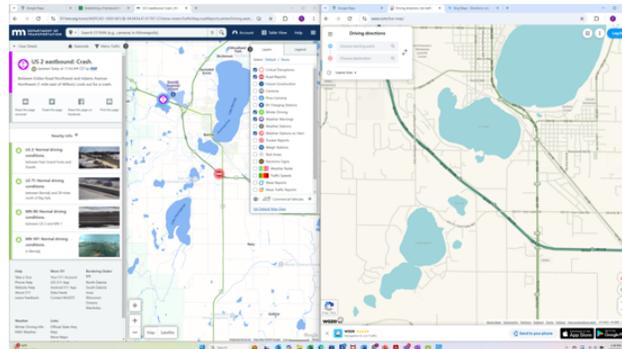


Screenshot: MnDOT 511

Screenshot: Waze live map

• Screenshots and descriptions from the event:

- 1:29 pm: Observed by Athey Creek – Police Icon removed from Waze



Screenshot: MnDOT 511

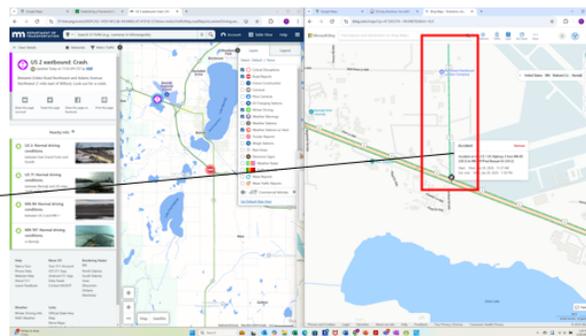
Screenshot: Waze live map

• Screenshots and descriptions from the event:

- 1:06 pm: Observed by Athey Creek on Bing Maps

Includes

- Event Type
- Start and End Times

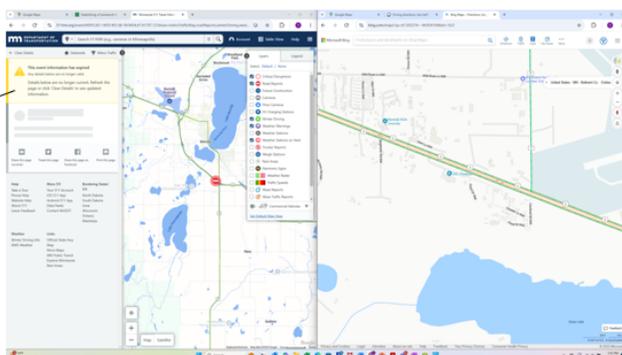
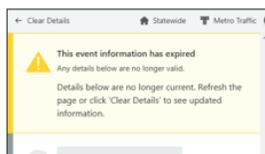


Screenshot: MnDOT 511

Screenshot: Bing

• Screenshots and descriptions from the event:

- 1:31 pm: Observed by Athey Creek – MSP Event Expired
- 1:31 pm: Observed by Athey Creek – Event Removed on Bing



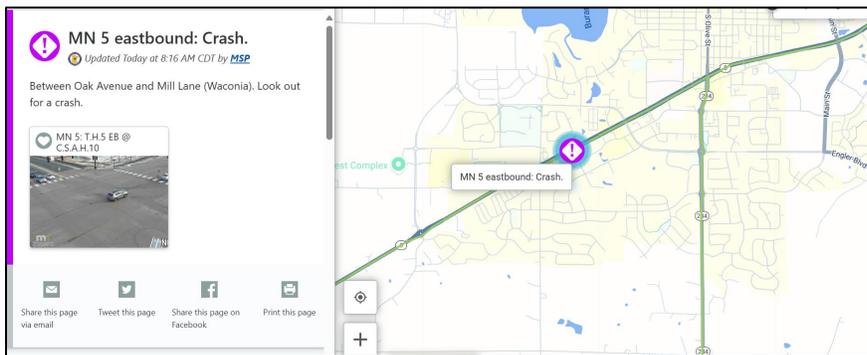
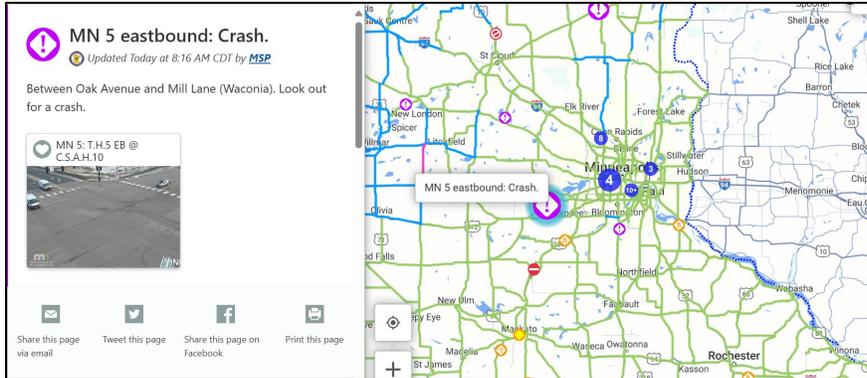
Screenshot: MnDOT 511

Screenshot: Bing

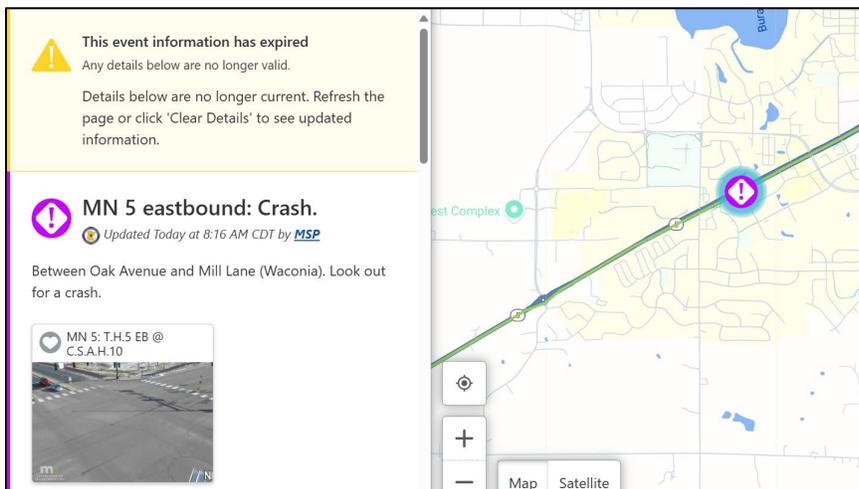
MINNESOTA EVENT 2: INCIDENT (MN 5 EASTBOUND) 4/3/25

MN 511

Crash observed at 8:18 a.m.

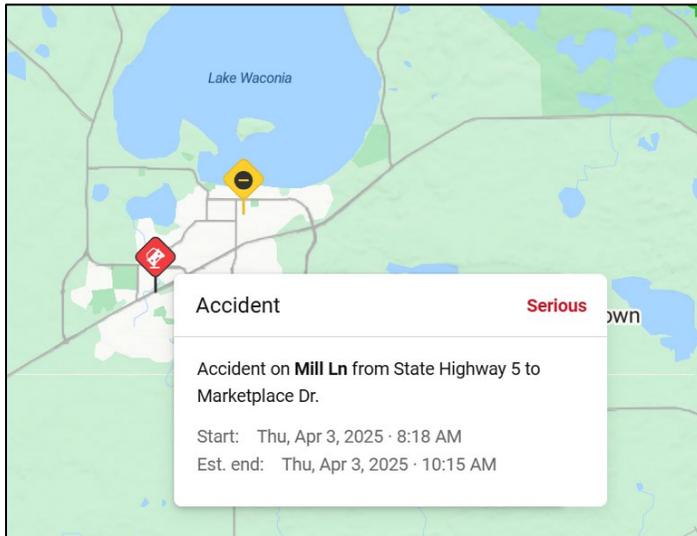


Event expired on MN 511. Observed at 9:19 am.

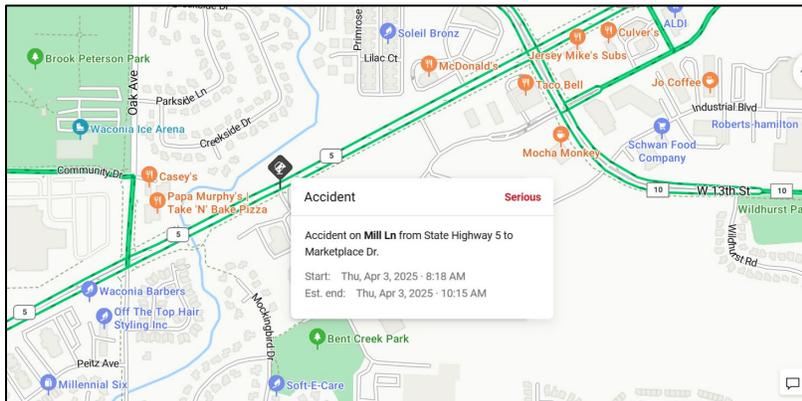


Bing

Accident observed on Bing at 8:25 am.



At 9:22 am Bing continued to have the Accident displayed. When reviewed at 9:36 am the Accident icon had been removed.



Google

The event was not observed on Google during the observation times.

Waze

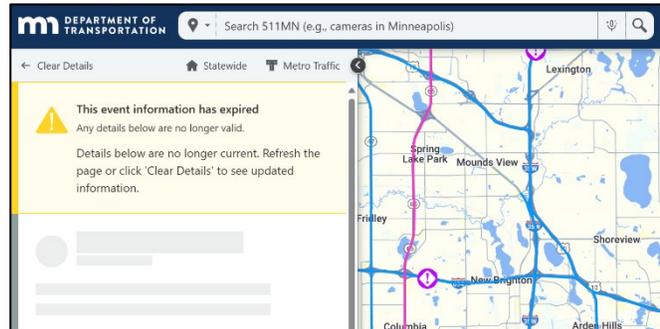
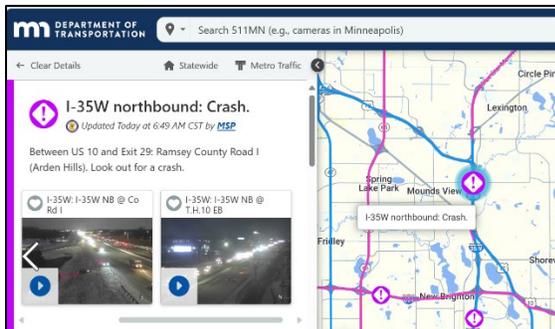
The event was not observed on Waze during the observation times.

MINNESOTA EVENT 3: INCIDENT (I-35W NORTHBOUND) 2/3/25

| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|--|--|--|--|--|--|---|
| State | <input type="checkbox"/> ID <input checked="" type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | Athey Creek | | | | | | |
| Event Date | February 3, 2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input checked="" type="checkbox"/> Incident <input type="checkbox"/> Driving Condition <input type="checkbox"/> Other: <<Please describe>> | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/ATMS | DOT 511 | Google https://www.google.com/maps | Waze www.waze.com/livemap | Bing Maps https://www.bing.com/maps/ (Select traffic or incident layer) | Apple Maps https://beta.maps.apple.com/ | Other <<Please describe>> |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report | <<Time>> | 6:49 am reported by MSP Observed: 6:59 am | <input checked="" type="checkbox"/> Observed 7:06 am – slowed traffic <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input checked="" type="checkbox"/> Observed 7:04 am as Police by Waze <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input checked="" type="checkbox"/> Observed 7:02 am <input type="checkbox"/> Not shown <<Time>> <input checked="" type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input checked="" type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown |
| Updated | <<Time>> | <<Time>> | <input checked="" type="checkbox"/> Observed 7:24, 7:40, 7:46 & 7:52am as Crash <input type="checkbox"/> Not shown <<Time>> | <input checked="" type="checkbox"/> Observed 7:24 am: Car Accident by Waze <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> |
| Removed | <<Time>> | 7:40 am Expired by MndOT | <input checked="" type="checkbox"/> Observed 8:00 am – No longer active <input type="checkbox"/> Not shown | <input checked="" type="checkbox"/> Observed 7:46 am as Police by Waze <input checked="" type="checkbox"/> Not shown 7:46 am | <input checked="" type="checkbox"/> Observed 7:40 am – No longer active <input type="checkbox"/> Not shown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> |
| Event type provided (e.g., incident)? | N/A | N/A | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Impact described (e.g. lane closed)? | N/A | N/A | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Anything else to note about the event? | <<Provide any additional details about the event>> | | | | | | |

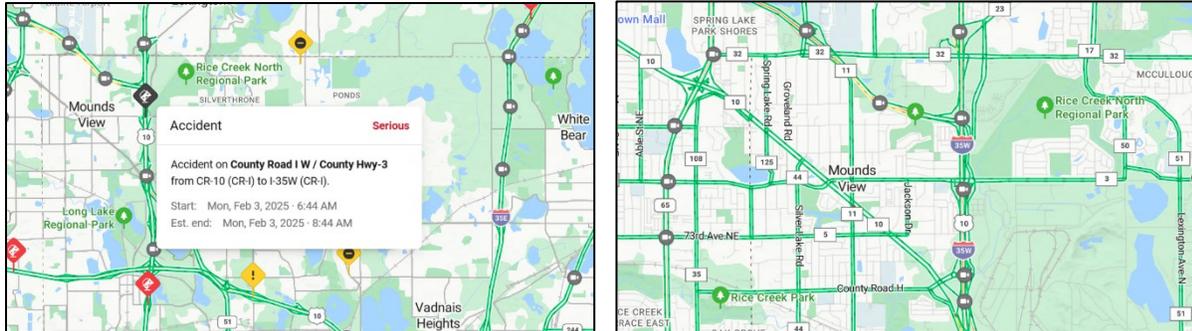
MN 511

I-35W northbound crash observed at 6:59 am. Observed event had expired from MN 511 at 7:40 am.



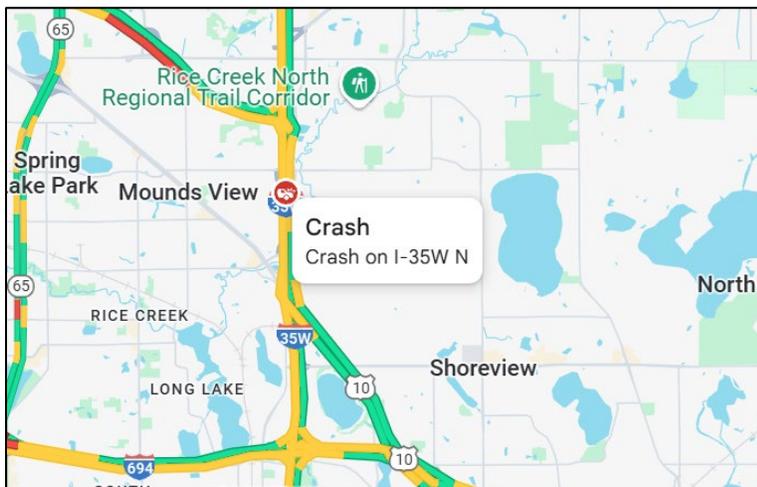
Bing

Accident observed in the vicinity on Bing at 7:02 am. Event no longer displayed on Bing at 7:40 am.



Google

Crash observed at 7:24 am. When the map was observed at 7:40 am and 7:46 am after the event had expired from MN 511, Google continued to display the crash. When Google Maps was observed at 8:00 am the crash was removed.



Waze

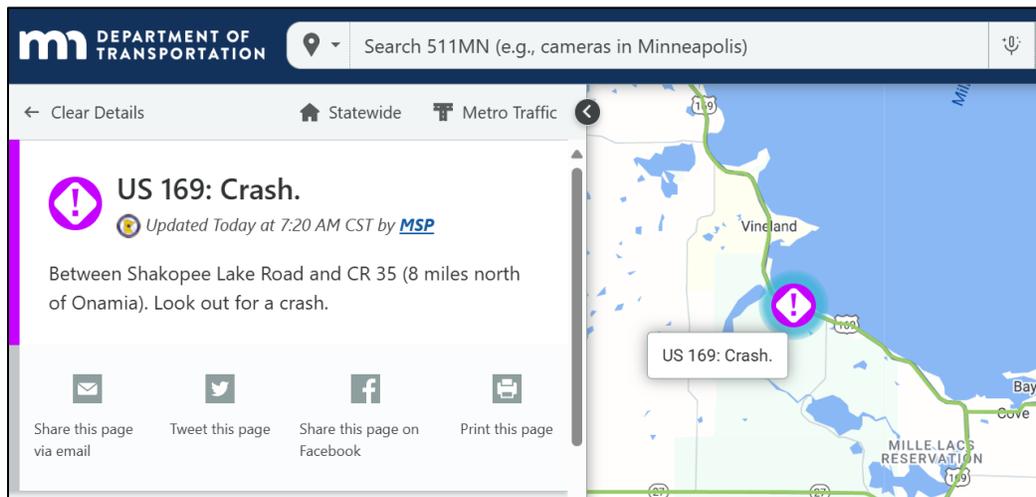
During the observed times, Wazer reports indicated a police presence and a car accident.

MINNESOTA EVENT 4: INCIDENT (US 169) 2/5/25

| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|---|--|--|--|--|--|---|
| State | <input type="checkbox"/> ID <input checked="" type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | Athey Creek | | | | | | |
| Event Date | February 5, 2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input checked="" type="checkbox"/> Incident <input type="checkbox"/> Driving Condition <input type="checkbox"/> Other: <<Please describe>> | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/ATMS | DOT 511 | Google https://www.google.com/maps | Waze www.waze.com/livemap | Bing Maps https://www.bing.com/maps/ (Select traffic or incident layer) | Apple Maps https://beta.maps.apple.com/ | Other <<Please describe>> |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report | <<Time>> | MSP Posted: 7:20am Observed: 7:22am | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 7:24am <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 7:26am <input type="checkbox"/> Unknown | <input checked="" type="checkbox"/> Observed 7:27am (Posted 7:17am) <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 7:33am <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown |
| Updated | <<Time>> | <<Time>> | <input checked="" type="checkbox"/> Observed 7:40am 9:07am back on map <input checked="" type="checkbox"/> Not shown 8:18am | <input checked="" type="checkbox"/> Observed 7:40am by Waze 8:56am Reappeared (Waze report) <input checked="" type="checkbox"/> Not shown 8:08am | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> |
| Removed | <<Time>> | 9:21am Event expired | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input checked="" type="checkbox"/> Observed 9:38am <input type="checkbox"/> Not shown <<Time>> | <input checked="" type="checkbox"/> Observed 9:21am <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 9:21am | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> |
| Event type provided (e.g., incident)? | N/A | N/A | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Impact described (e.g. lane closed)? | N/A | N/A | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Anything else to note about the event? | Though not observed, the time stamp on Bing indicates that the accident may have been posted on Bing before MN 511, but this was not observed. Crash dropped off both Google and Waze for a time before reappearing then being removed after the incident cleared. | | | | | | |

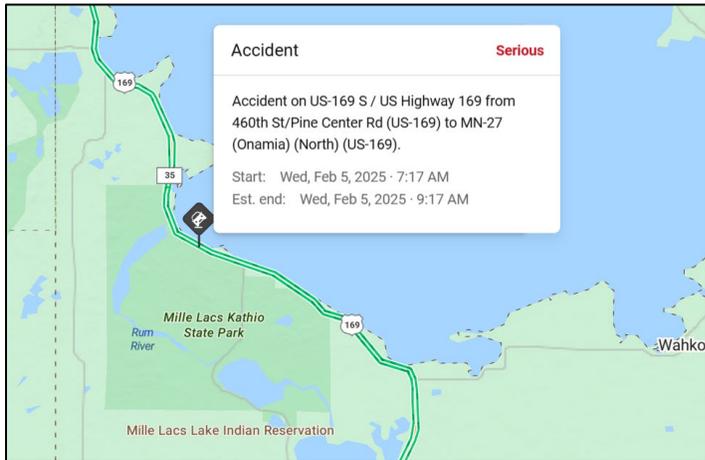
MN 511

Crash reported by Minnesota State Patrol on US 169. Observed at 7:22 am. The crash expired on MN 511 prior to 9:21 am.



Bing

Accident posted on Bing. Observed at 7:27 a.m. Crash expired prior to 9:21 am.



Google

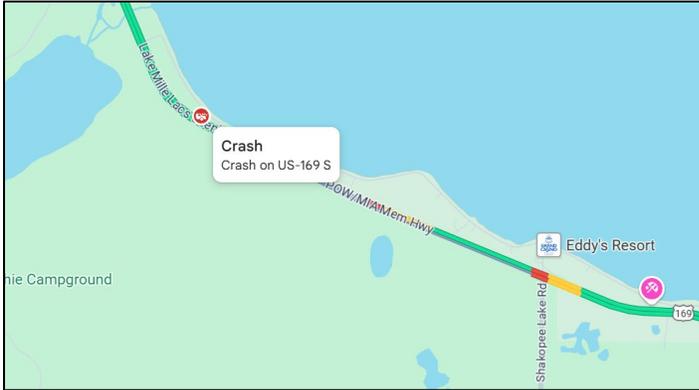
Google Maps indicated a crash. Showed increased traffic at 7:33 am and displayed a crash symbol at 7:40 am. Continued to show a crash at 7:52 am, 7:58 am and 8:08 am.



Google removed the Crash icon but continued to show slow traffic. Observed at 8:18 am.



At 9:07 a.m., the crash (or a secondary crash) was observed on Google maps.



The crash expired on MN 511, observed during a 9:21 a.m. review, however, it remained on Google during 9:35 am, 9:38 am, and 9:47 am observations.

The crash icon was removed from Google maps prior to a 9:50 am review.

Waze

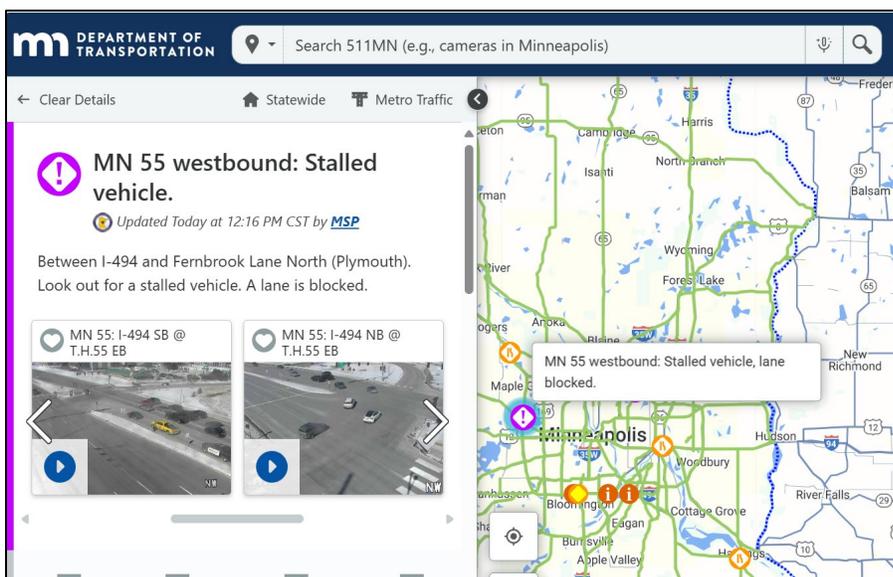
Wazers reported a car accident to Waze by 7:40 am and the accident remained on the Waze site until an 8:08 am observation. A Wazer reported a car accident again and the car accident icon reappeared on the Waze map. Observed at 8:38 am. The icon was observed to have been removed during a 9:36 am observation.

MINNESOTA EVENT 5: OTHER – STALLED VEHICLE BLOCKING LANE 2/13/25

| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|--|--|---|---|---|--|---|
| State | <input type="checkbox"/> ID <input checked="" type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | Athey Creek | | | | | | |
| Event Date | February 13, 2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input type="checkbox"/> Incident <input type="checkbox"/> Driving Condition <input checked="" type="checkbox"/> Other: Stalled vehicle blocking lane | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/ATMS | DOT 511 | Google <small>https://www.google.com/maps</small> | Waze <small>www.waze.com/livemap</small> | Bing Maps <small>https://www.bing.com/maps/ (Select traffic or incident layer)</small> | Apple Maps <small>https://beta.maps.apple.com/</small> | Other <small><<Please describe>></small> |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report | <<Time>> | Observed: 12:18pm Reported by MSP 12:16pm | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 12:20pm <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 12:20pm <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 12:20pm <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input checked="" type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown |
| Updated | <<Time>> | <<Time>> | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 12:23pm, 12:28pm, 1:00pm | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 12:23pm, 12:28pm, 1:00pm | <input checked="" type="checkbox"/> Observed 12:20pm <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> |
| Removed | <<Time>> | Observed: 1:00pm | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input checked="" type="checkbox"/> Observed 1:03pm <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> |
| Event type provided (e.g., incident)? | N/A | N/A | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Impact described (e.g. lane closed)? | N/A | N/A | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Anything else to note about the event? | <<Provide any additional details about the event>> | | | | | | |

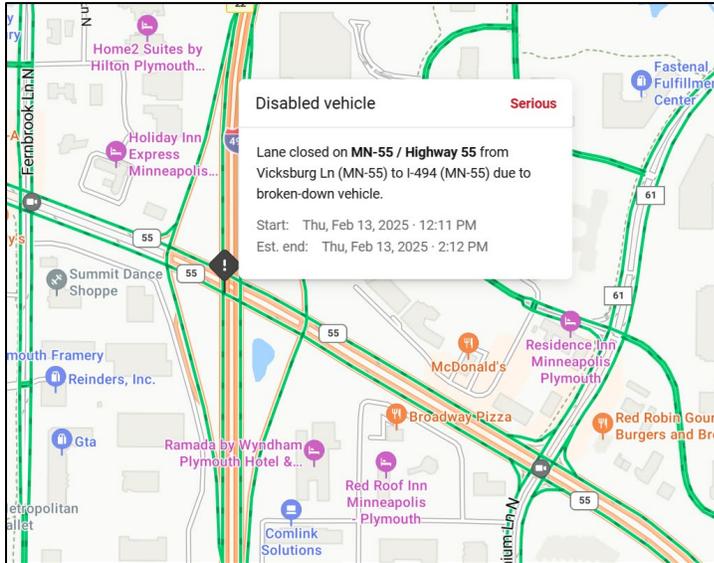
MN 511

A stalled vehicle was blocking a lane on westbound MN 55. Observed at 12:18 p.m. The event expired on MN 511 which was observed at 1:00 pm.



Bing

Though nothing was observed on Bing at 12:20 pm, by 12:23 pm Bing showed a lane closed due to a disabled vehicle.



At 1:00 pm, the disabled vehicle icon was removed from the MN 511 map but remained on Bing, however, for a 1:30 pm observation, Bing removed the Disabled Vehicle icon from the map.

Google

The event was not observed on Google during the observation times.

Waze

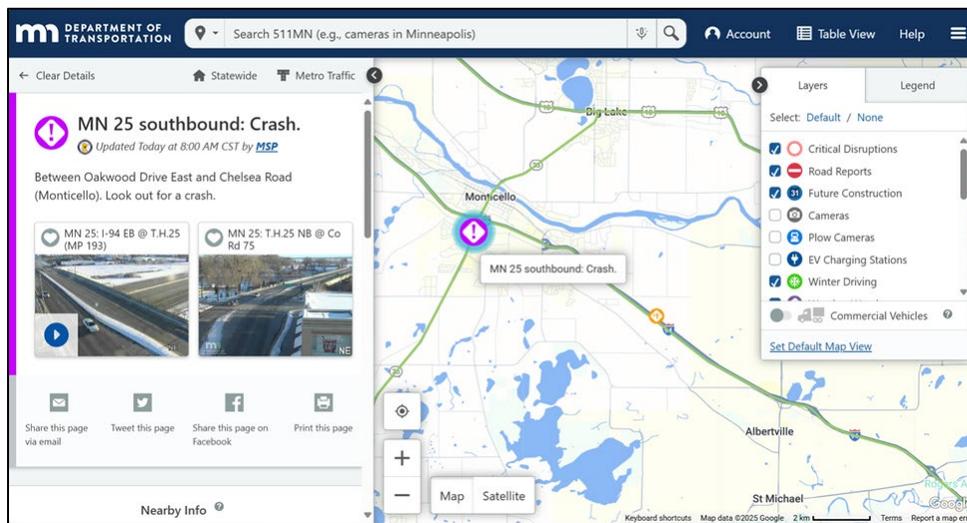
The event was not observed on Waze during the observation times.

MINNESOTA EVENT 6: INCIDENT (MN 25 SOUTHBOUND) 2/20/25

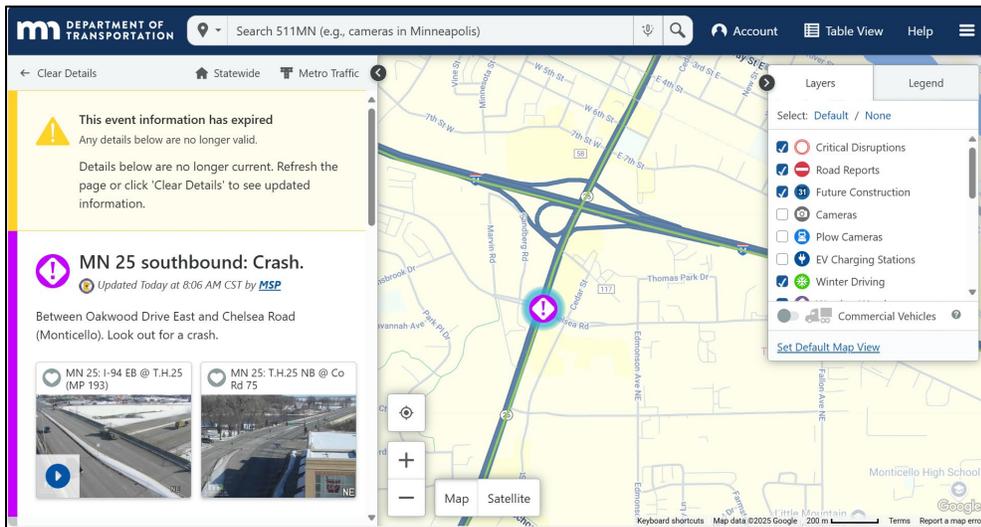
| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|--|---------------|--|--|---|--|--|
| State | <input type="checkbox"/> ID <input checked="" type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | Athey Creek | | | | | | |
| Event Date | February 20, 2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input checked="" type="checkbox"/> Incident <input type="checkbox"/> Driving Condition <input type="checkbox"/> Other: <<Please describe>> | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/ATMS | DOT 511 | Google https://www.google.com/maps | Waze www.waze.com/livemap | Bing Maps https://www.bing.com/maps (Select traffic or incident layer) | Apple Maps https://beta.maps.apple.com/ | Other <<Please describe>> |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report | <<Time>> | 8:02am | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 8:06am <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 8:06am <input type="checkbox"/> Unknown | <input checked="" type="checkbox"/> Observed 8:06am <input checked="" type="checkbox"/> Not shown 8:04am <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 8:06am <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 8:06am <input type="checkbox"/> Unknown |
| Updated | <<Time>> | 8:06am | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 8:14am, 8:21am, 8:34am, 8:57am, 9:06am, 9:47am | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 8:14am, 8:21am, 8:34am, 8:57am, 9:06am, 9:47am | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input checked="" type="checkbox"/> Not shown 8:14am, 8:21am, 8:34am, 8:57am, 9:06am, 9:47am | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 8:14am, 8:21am, 8:34am, 8:57am, 9:06am, 9:47am |
| Removed | <<Time>> | 10:10am | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input checked="" type="checkbox"/> Observed 10:10am <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> |
| Event type provided (e.g., incident)? | N/A | N/A | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Impact described (e.g. lane closed)? | N/A | N/A | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Anything else to note about the event? | Event occurred during a MnROADS CAV test on nearby I-94. Likely no connection but it was the reason the incident was first observed on MN 511. | | | | | | |

MN 511

Crash on southbound MN 25 reported by State Patrol. Observed at 8:02 am. No changes to map during observations at 8:14 a.m., 8:21 a.m., 8:34 a.m., 8:57 a.m., 9:06 a.m., and 9:47 a.m.



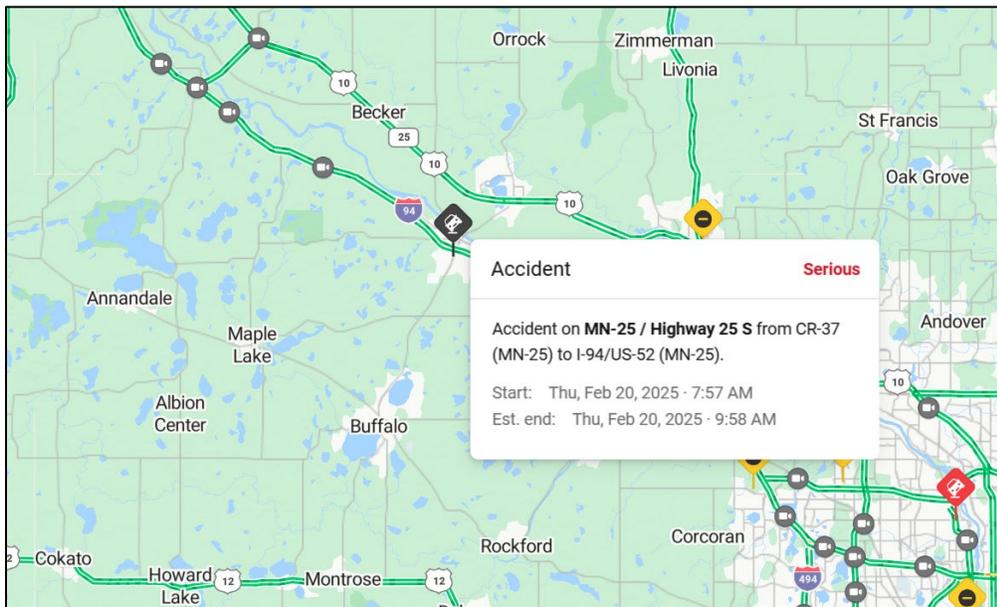
Event expired on MN 511. Observed at 10:10 a.m.



Bing

Observed an Accident icon on Bing map at 8:06 am. (The icon was not visible at 8:04 a.m.)

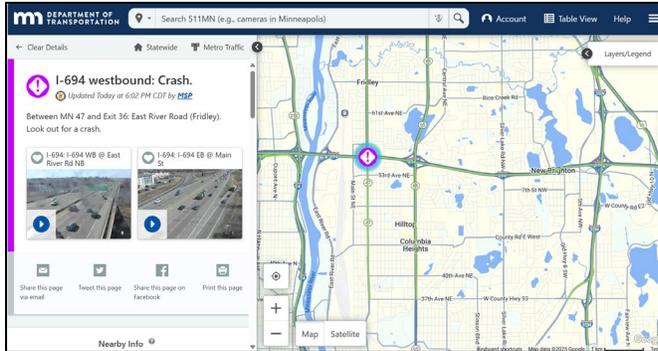
Event cleared from Bing. Observed at 10:10 am.



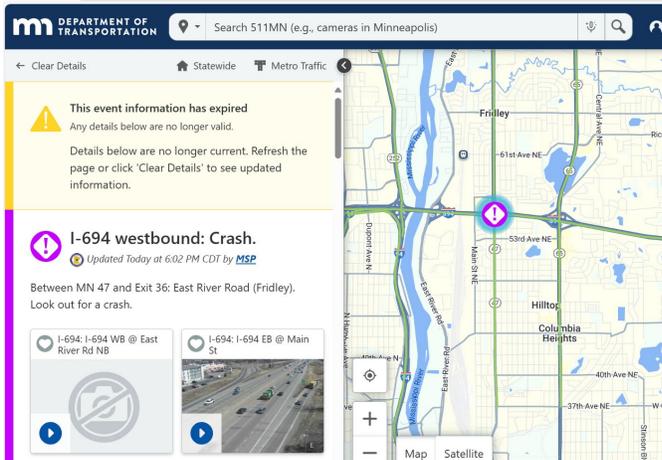
MINNESOTA EVENT 7: INCIDENT (I-694 WB) 3/20/25

MN 511

Crash observed on MN 511 at 6:06 pm.

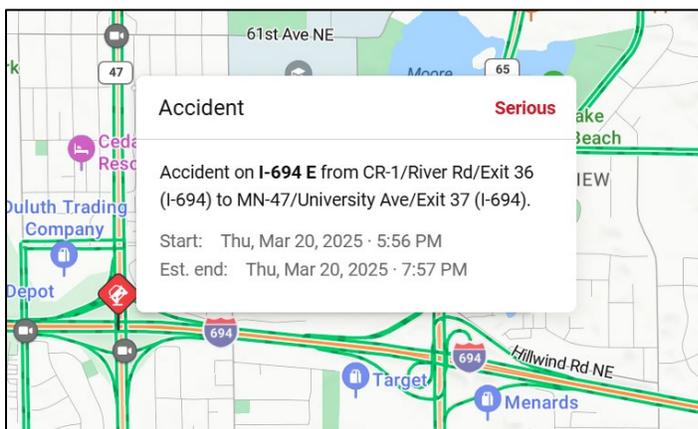


Event expired on MN 511. Observed at 6:31 p.m.



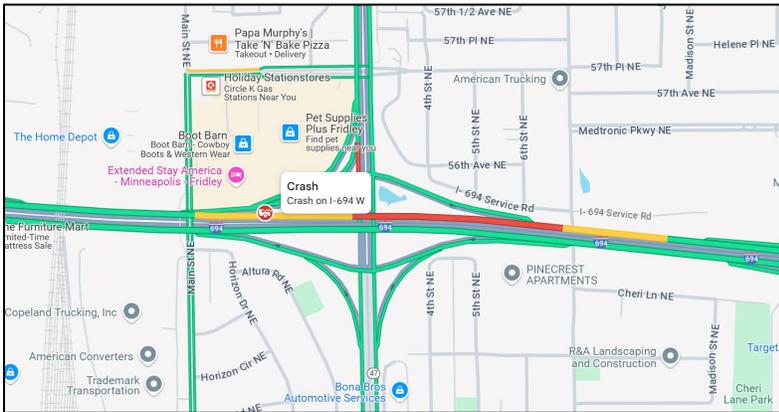
Bing

Accident reported on Bing in the eastbound direction, however, MN 511 reports that the crash is westbound. Observed at 6:11 p.m.



Google

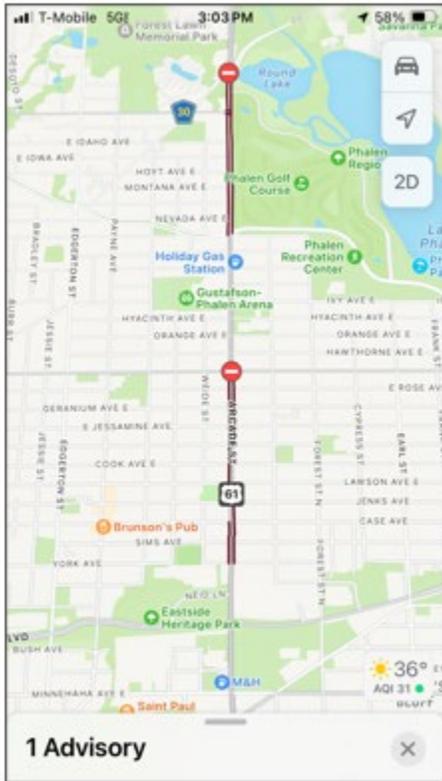
Google indicated a crash on I-694 westbound. Observed at 6:18 p.m.



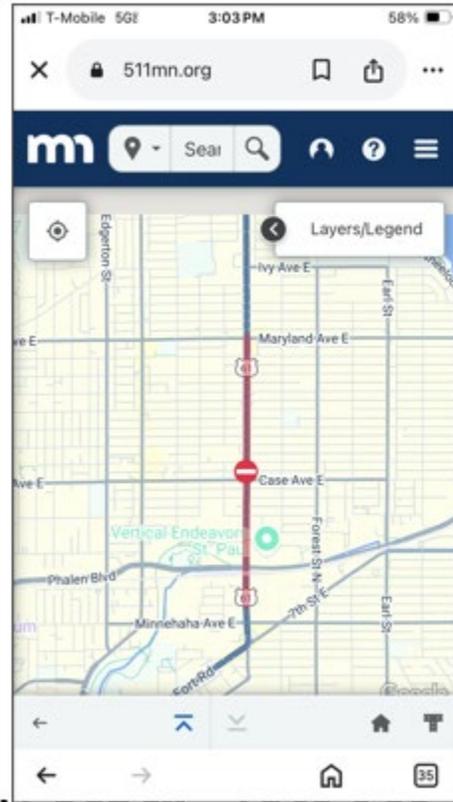
Waze

Waze displayed Wazer reports of Police and Car Accident.

MINNESOTA EVENT 8: ROAD CLOSURE (4/7/25)



Apple Maps – 4.7.25, 3:05 pm



MnDOT 511 – 4.7.25, 3:05 pm

MINNESOTA EVENT 9-12: TEST EVENTS AT MNROAD (2/18/25 – 2/21/25)

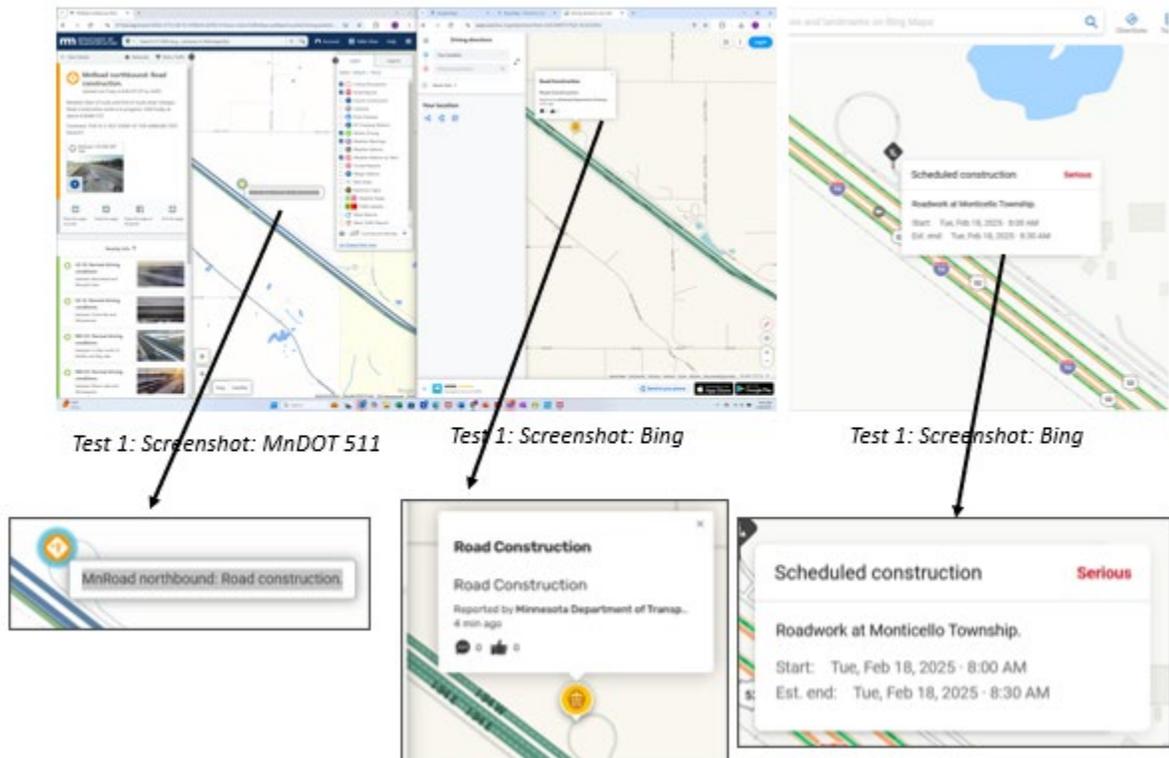
A test was conducted by MnDOT from February 18-21, 2025 where events were “Test Events” were preloaded to display on the MnROAD test track.

- Test 1: 2.18.25: ROAD WORK (MnROAD NB, Road Construction)
- Test 2: 2.19.25: INCIDENT (Traffic Incident Reported, drive with extreme caution)
- Test 3: 2.20.25: DRIVING CONDITION (The Road is rough. Drive Carefully)
- Test 4: 2.21.25: LOCAL EVENT (Watch for Slow Traffic)

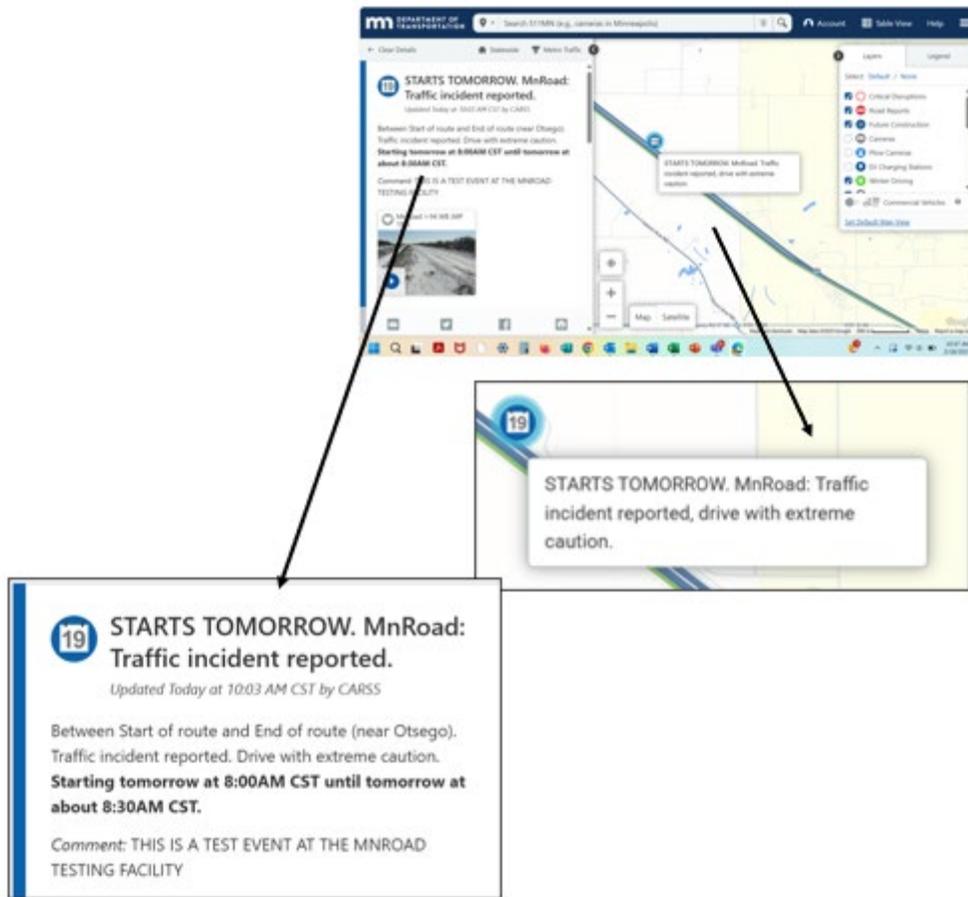
Observed Waze, Google, Bing, and Apple from desktops and mobile devices. All testing was conducted via desktop or viewing mobile device (not onsite).

Results:

- Observed a Waze and Bing event for Test 1: 2.18.25 Roadwork



- Not Show on Waze, Bing, and Apple for Test 2 - 4
- Apple maps (desktop and mobile) do not show the MnROAD test track on their maps.
- Planned events were shown on 511 site.



- Assumption: Because the entered event from MnDOT indicated a TEST maybe that is why it only showed on the first day and then was filtered out.
- There are different outcomes being onsite vs. remote (desktop)

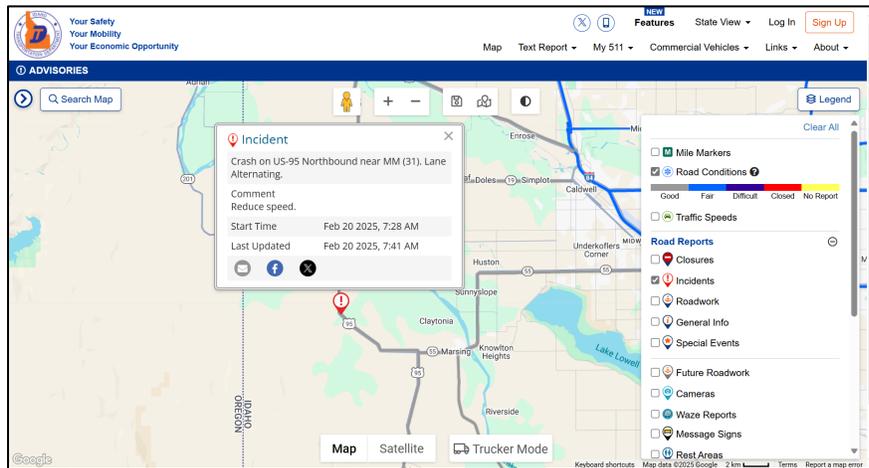
APPENDIX C: EVENTS OBSERVED – IDAHO TRANSPORTATION DEPARTMENT

IDAHO EVENT 1: INCIDENT 2/20/25

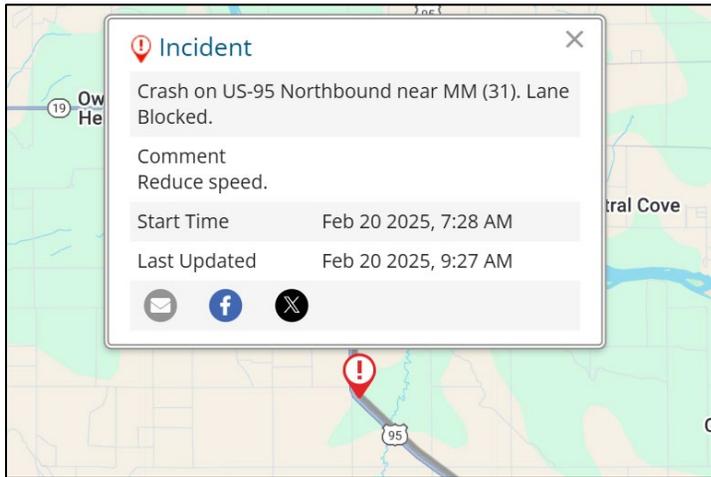
| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|---|---------------|--|--|--|--|--|
| State | <input checked="" type="checkbox"/> ID <input type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | Athey Creek | | | | | | |
| Event Date | February 20, 2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input checked="" type="checkbox"/> Incident <input type="checkbox"/> Driving Condition <input type="checkbox"/> Other: <<Please describe>> | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/ ATMS | DOT 511 | Google https://www.google.com/maps | Waze https://www.waze.com/livemap | Bing Maps https://www.bing.com/maps/ (Select traffic or incident layer) | Apple Maps https://maps.apple.com/ | Other <<Please describe>> |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report | <<Time>> | 10:28am | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> R Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> R Unknown |
| Updated | <<Time>> | <<Time>> | <input type="checkbox"/> Observed <<Time>> R Not shown 10:32am, 10:40am, 10:52am, 11:13am, 11:40am, 1:25pm, 2:09pm | <input type="checkbox"/> Observed <<Time>> R Not shown 10:32am, 10:40am, 10:52am, 11:13am, 11:40am, 1:25pm, 2:09pm | <input type="checkbox"/> Observed <<Time>> R Not shown (No updates) 10:32am, 10:40am, 10:52am, 11:13am, 11:40am, 1:25pm, 2:09pm, 2:32pm, 2:43pm, 3:21pm | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> |
| Removed | <<Time>> | <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | R Observed 11:37pm (but I failed to check until then after 3:21pm) <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> |
| Event type provided (e.g., incident)? | N/A | N/A | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | R Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Impact described (e.g. lane closed)? | N/A | N/A | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Anything else to note about the event? | Google Maps and Waze just showed slowed traffic during and after the incident. Bing showed the accident and stated that the lane was blocked but that went well past the time that ID 511 showed it on their site. Not sure if traffic continued to be slow and Bing did not update to clear the accident during that time or if there was a problem clearing the incident from Bing. | | | | | | |

ITD 511

Observed Incident on ITD 511 at 10:28 a.m. (appears to have been posted 3 hours earlier).



ITD updated the incident to include a Lane Blocked message instead of Lane Alternating. Observed at 10:36 a.m.

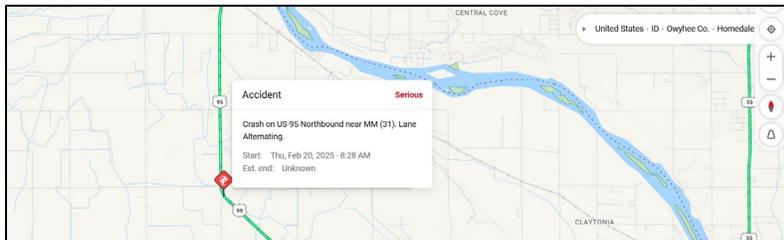


It was observed that at 1:25 p.m. ITD 511 remained the same, but by 2:09 p.m. the Incident icon had been removed.

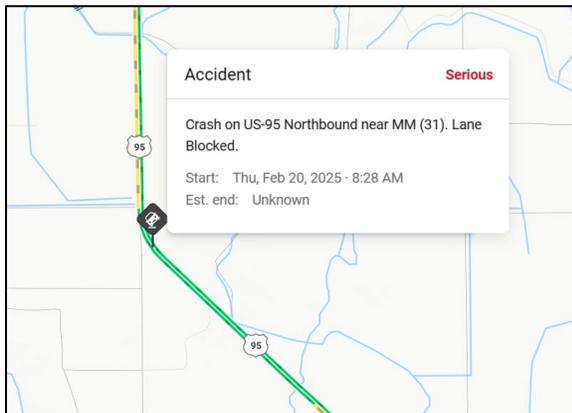
Since the observation times are in Central Time but Idaho is not, there may be a discrepancy.

Bing

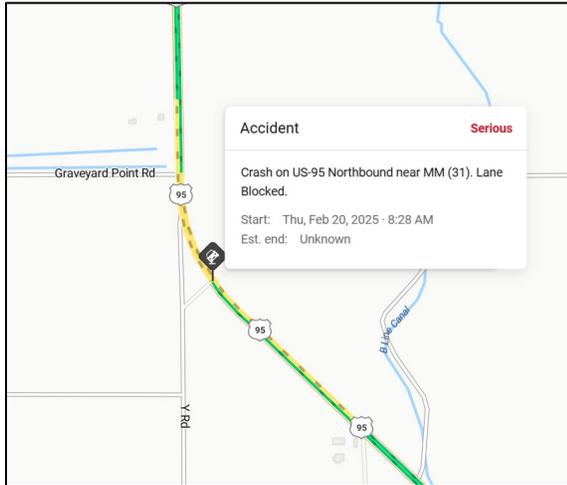
The incident was observed on Bing at 10:30 a.m. From the start time, Bing appears to have recognized it as an Accident 2 hours earlier.



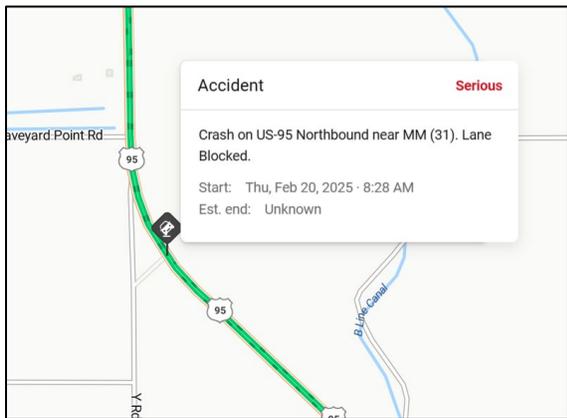
In response to ITD's update of Lane Blocked to Lane Alternating, Bing updated the accident to reflect the change. Observed at 10:38 a.m.



It was observed that at 1:25 p.m. the Accident message was the same, but the traffic designations continued to update in Bing.



Bing had not cleared the accident by 2:09 p.m. when it was observed and had been cleared by ITD 511.



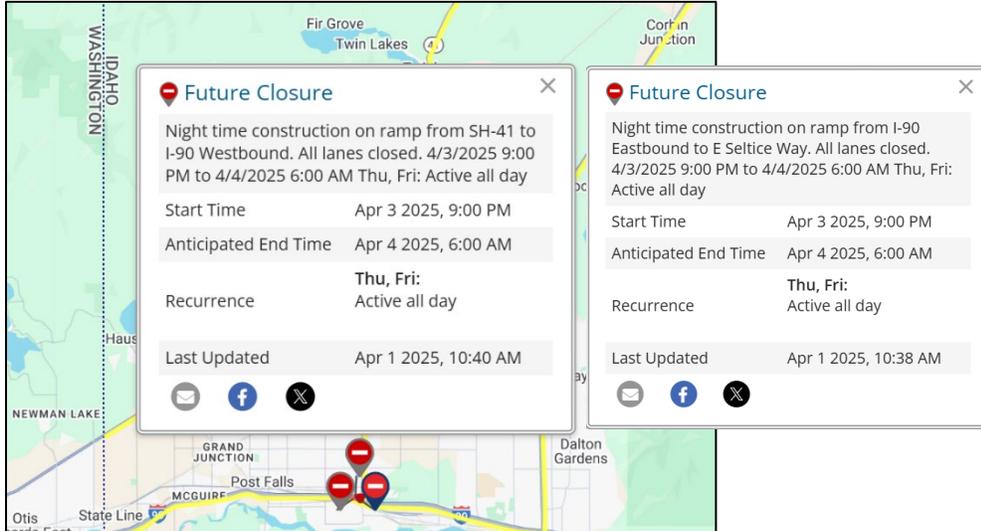
At 3:21 p.m., Bing continued to show the Accident and update the traffic speeds. By 11:37 p.m. Bing had removed the accident from the map, but the time is unknown.

Throughout the event, Google updated the traffic speeds in the area but did not identify the incident, and Waze was not observed to reflect anything.

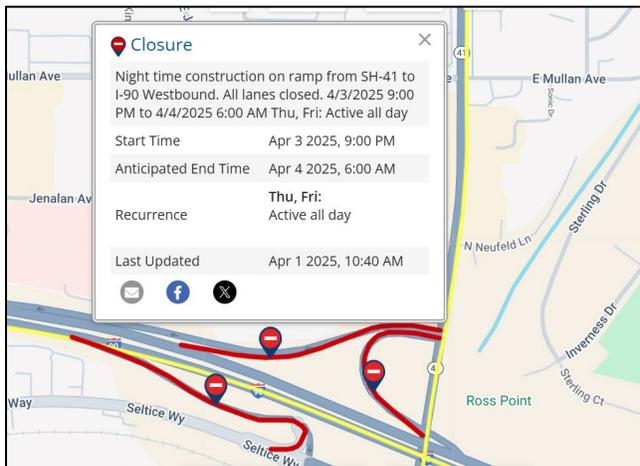
IDAHO EVENT 2: ROAD WORK 4/3/25

ITD 511

A future road closure was observed on ITD 511 on 4/3/25 at 9:08 a.m.



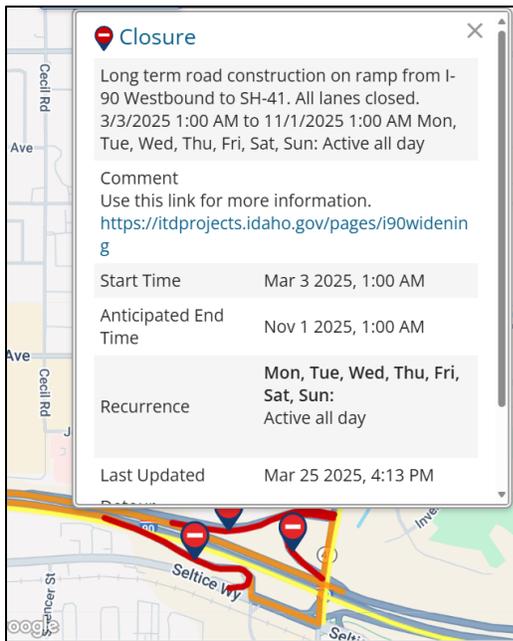
ITD updated the future closure to just closure. Observed at 10:49 a.m.



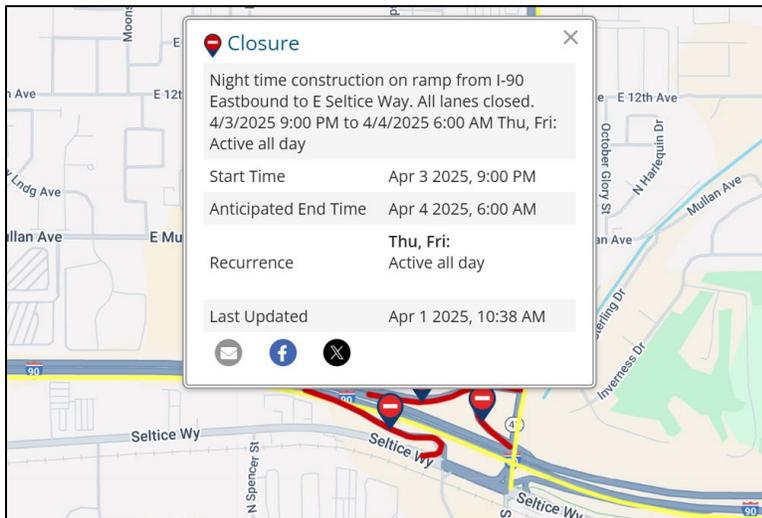
Fully closed ramps continued to be shown on ITD 511. Observed on 4/4/25 at 2:36 a.m.



A Closure report for I-90 westbound ramps was observed on ITD 511 4/4/25 at 4:32 a.m.

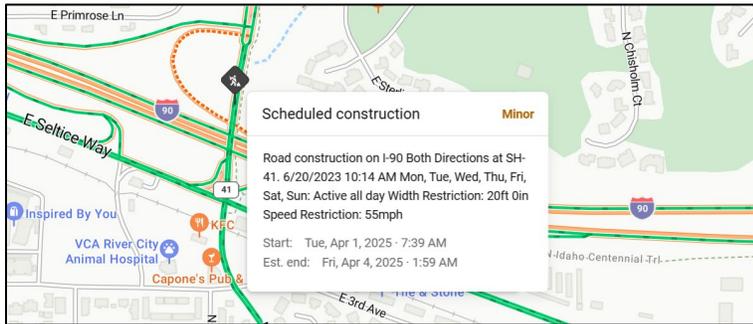


A closure on I-90 eastbound ramps was observed at 6:07 a.m.

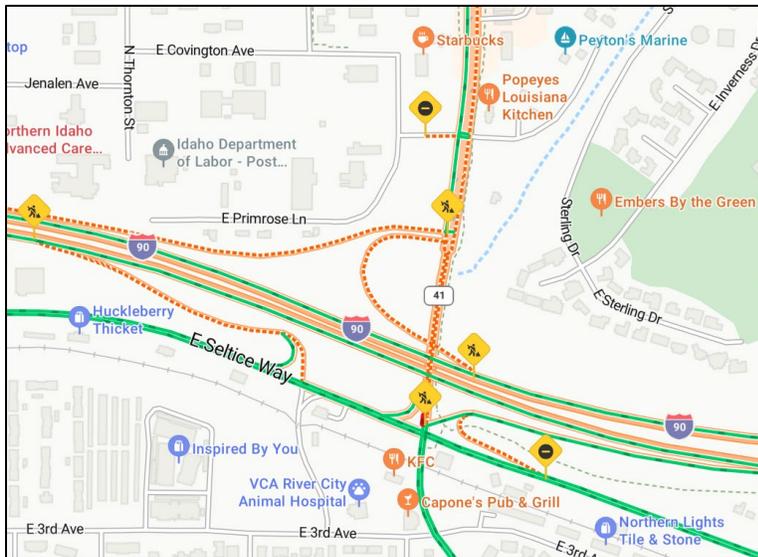


Bing

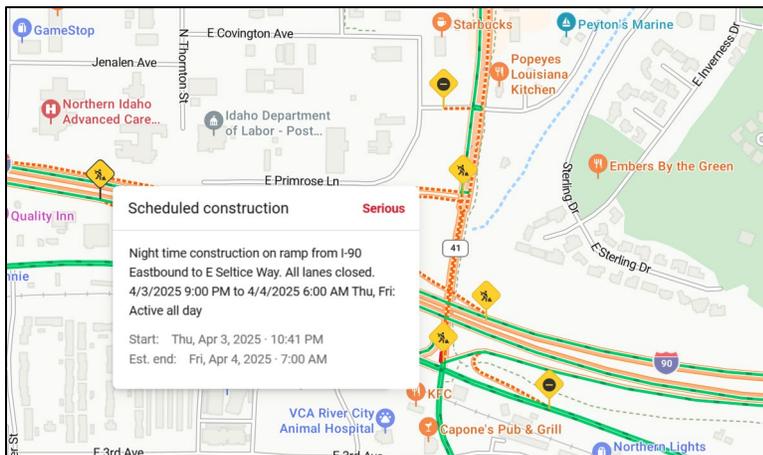
Scheduled construction in both directions. Observed at 9:14 a.m.



Bing shows construction in the area. Observed 4/4/25 at 2:36 a.m.



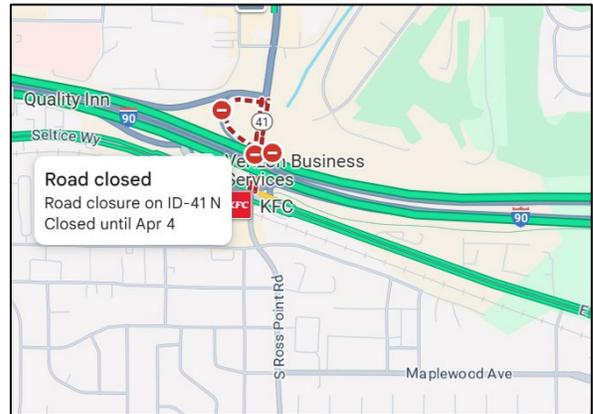
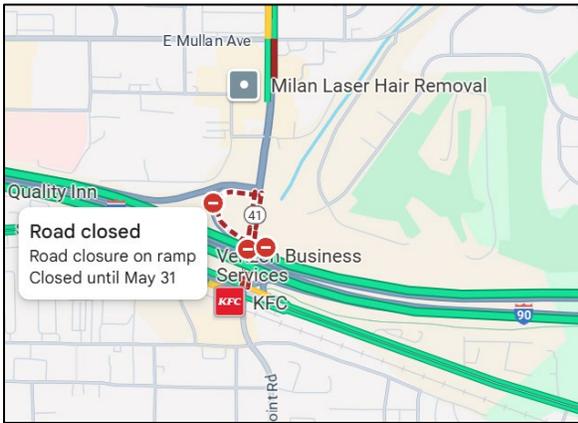
Bing shows scheduled construction in the area. Observed at 4:32 a.m.



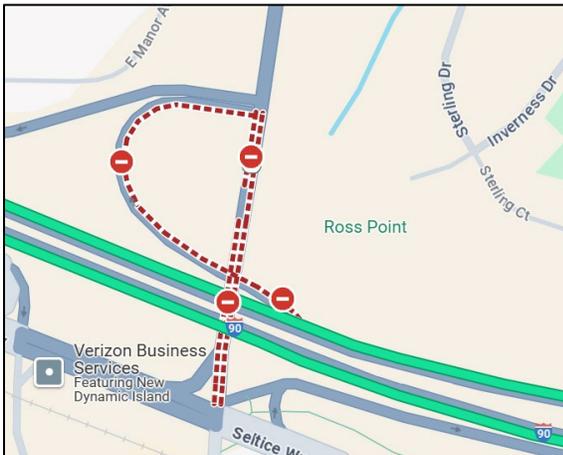
At 6:07 a.m. the same scheduled construction message continued to be displayed on Bing.

Google

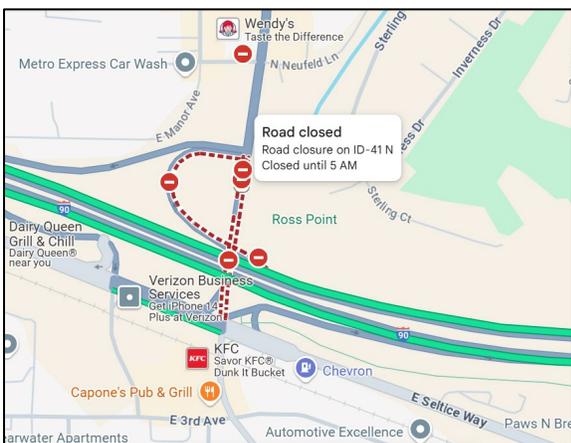
A road closure on ramp and state highway was indicated on Google. Observed at 10:52 a.m.



Road closure on ramps and state highway continued to be observed 4/4/25 at 2:36 a.m.



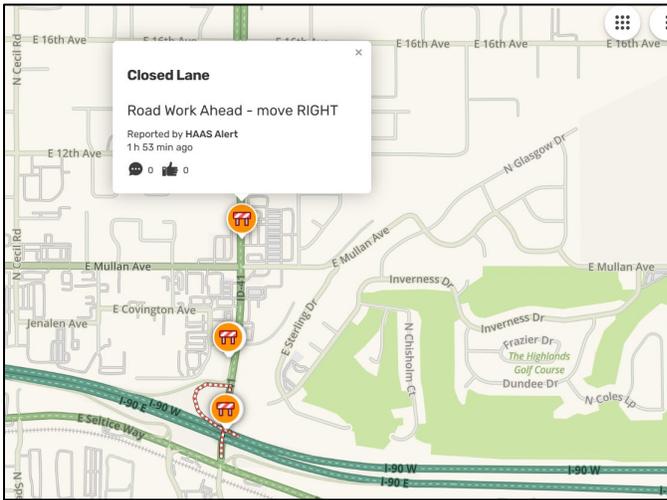
Google updated the time frame for the road closure from the night-time construction project. Observed at 4:32 a.m.



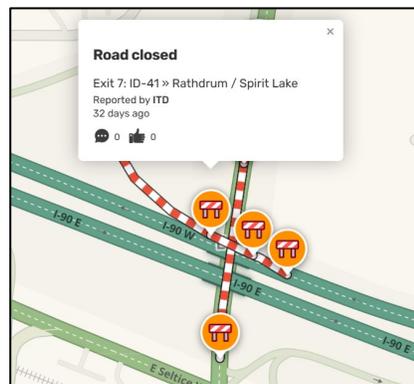
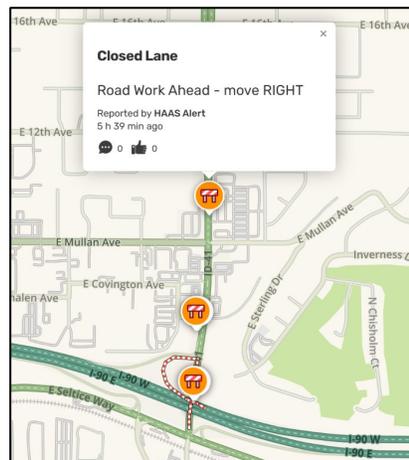
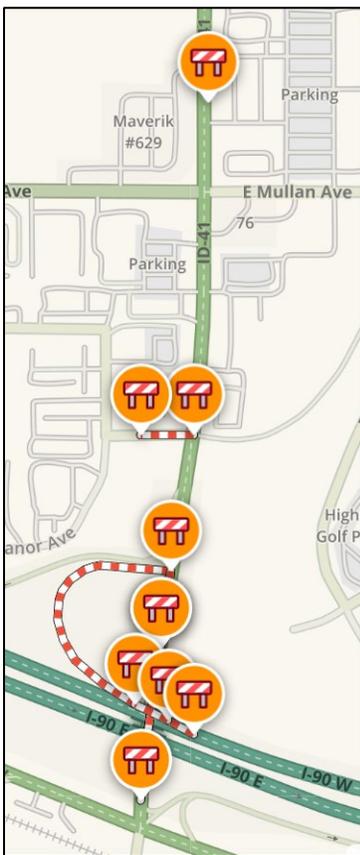
At 6:07 a.m., Google had not updated the time on the road closure message.

Waze

At 10:57 p.m. a HAAS alert was shown on Waze to communicate road work and lane restrictions.

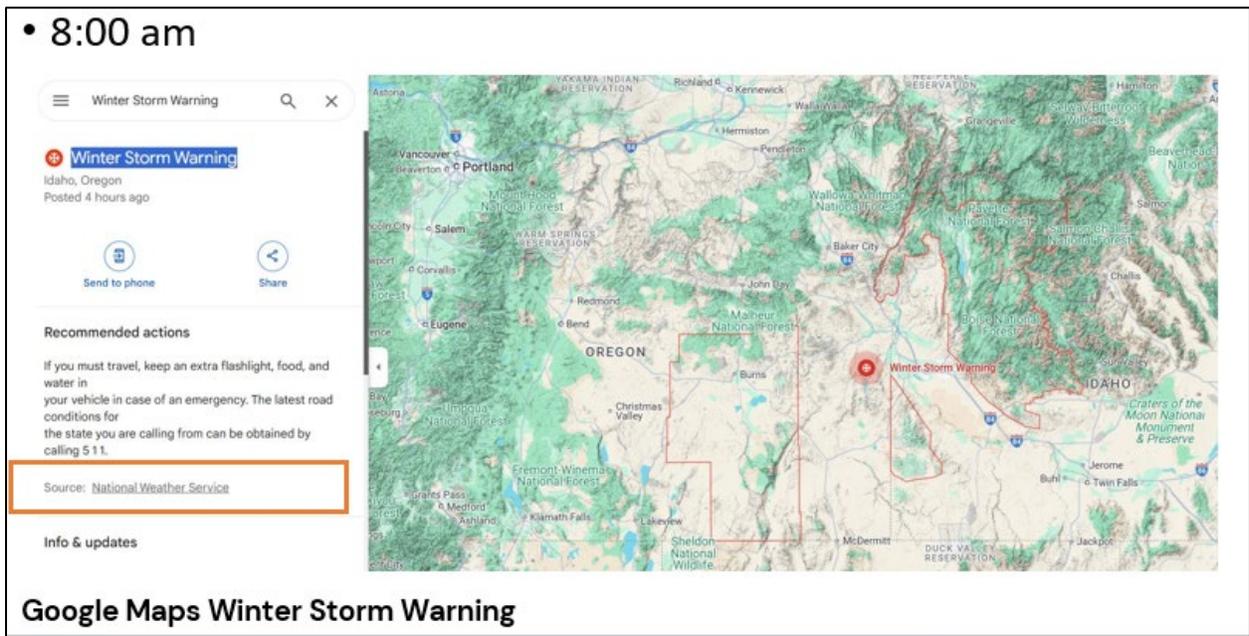
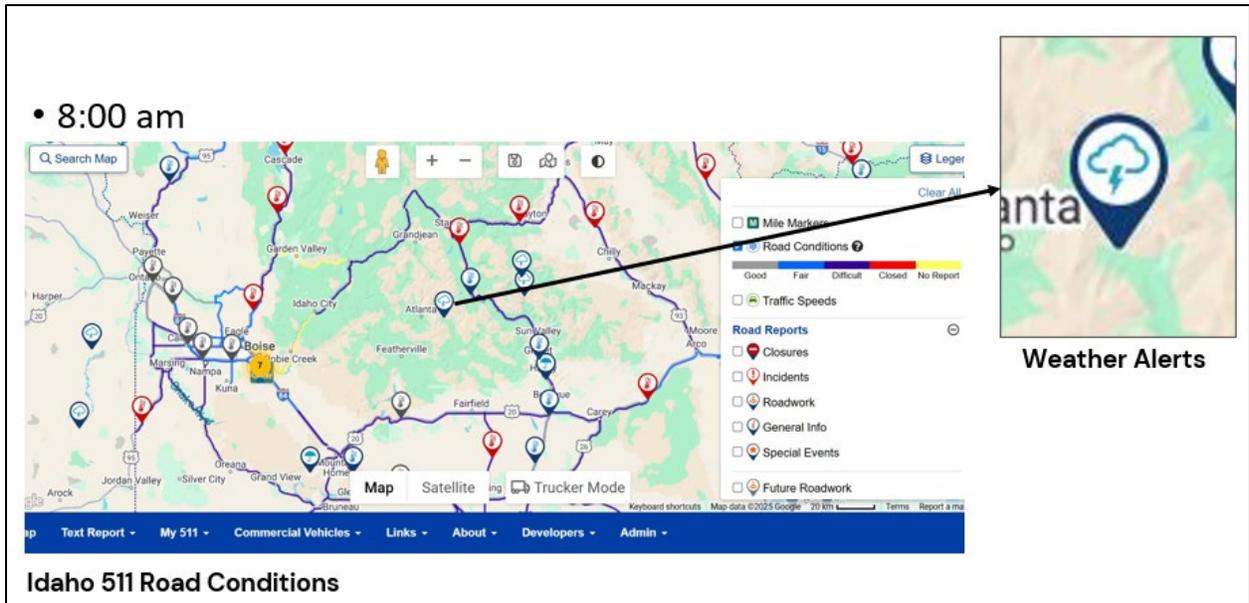


Many closure icons were displayed on Waze 4/4/25 at 2:36 a.m. Zooming in displays icon information that describes the road closure.



At 10:30 a.m. on 4/4/25 road closures due to construction are still shown in the area, but the overnight ramp construction being tracked has cleared on all sites.

IDAHO EVENT 3: WINTER STORM WARNING 2/3/25



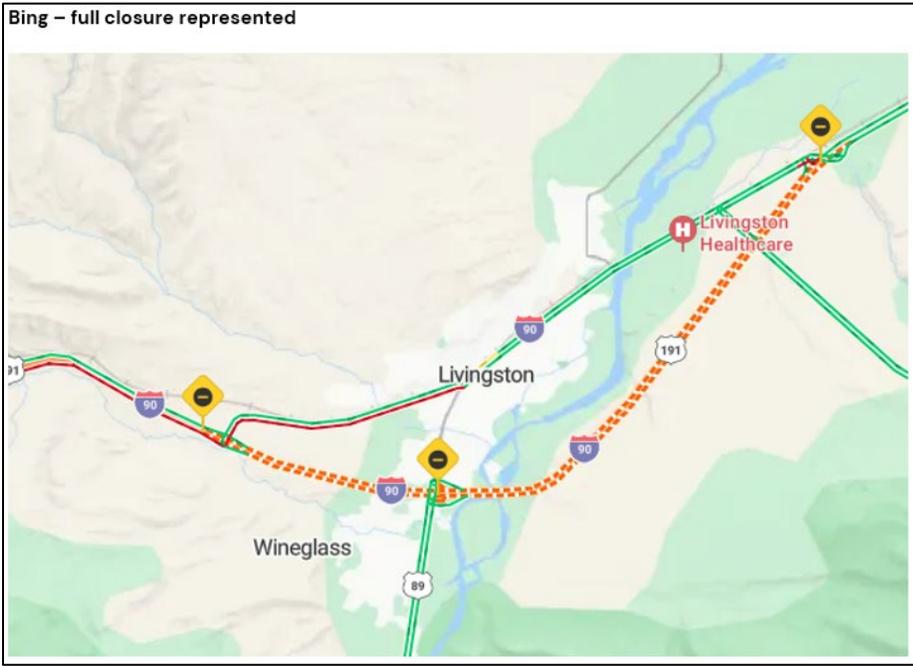
Notes:

- Only observed on Google
- Warning was not observed on Waze, Bing, or Apple Maps
- Alert on ITD 511 include the event type (NWS) and impact (travel advisory)

APPENDIX D: EVENTS OBSERVED – MONTANA DOT

MONTANA EVENT 1: OTHER – ROAD CLOSURE 2/13/25

| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|--|---------------|--|--|--|--|---|
| State | <input type="checkbox"/> ID <input type="checkbox"/> MN <input checked="" type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | Mike Warren | | | | | | |
| Event Date | 02/13/2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input type="checkbox"/> Incident <input checked="" type="checkbox"/> Driving Condition <input type="checkbox"/> Other: <<Please describe>> | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/ATMS | DOT 511 | Google https://www.google.com/maps | Waze www.waze.com/livemap | Bing Maps https://www.bing.com/maps/ (Select traffic or incident layer) | Apple Maps https://beta.maps.apple.com/ | Other <<Please describe>> |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report | 0300 | <<Time>> | <input checked="" type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input checked="" type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input checked="" type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown |
| Updated | 0415 | <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> |
| Removed | <<Time>> | <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> |
| Event type provided (e.g., incident)? | Road closure - wind | N/A | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Impact described (e.g. lane closed)? | Detour/closure | N/A | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Anything else to note about the event? | Bing reflected the closure the best. Google only represented half the closure. | | | | | | |



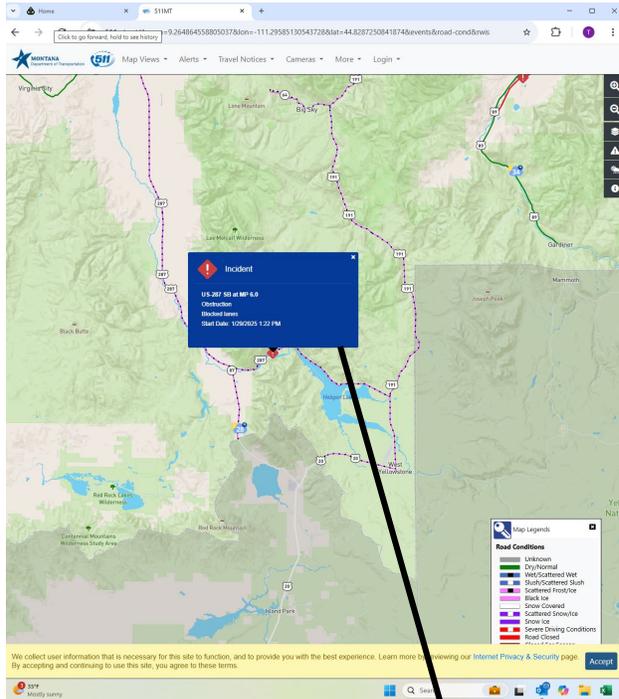
MDT 511



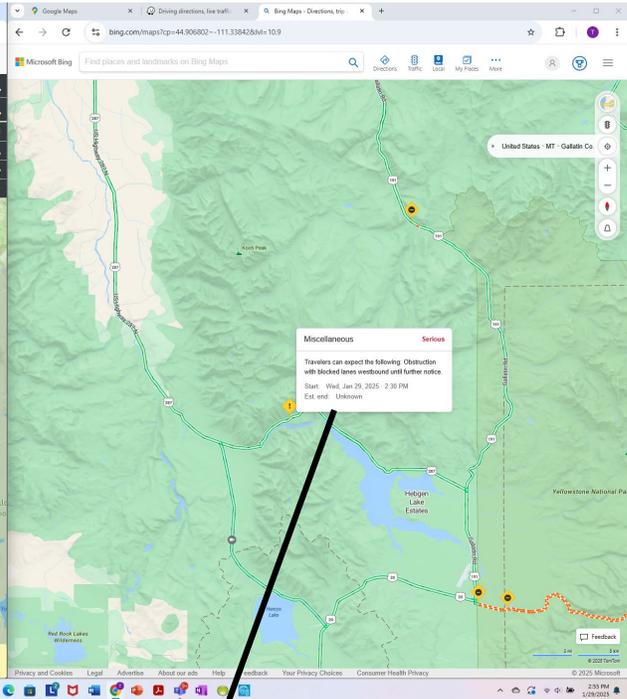
Google – missing half the closure



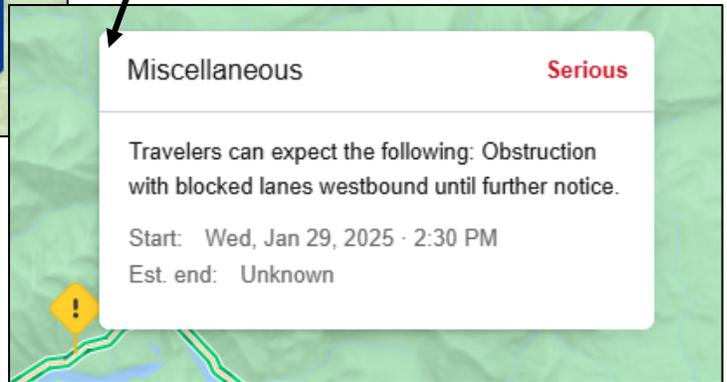
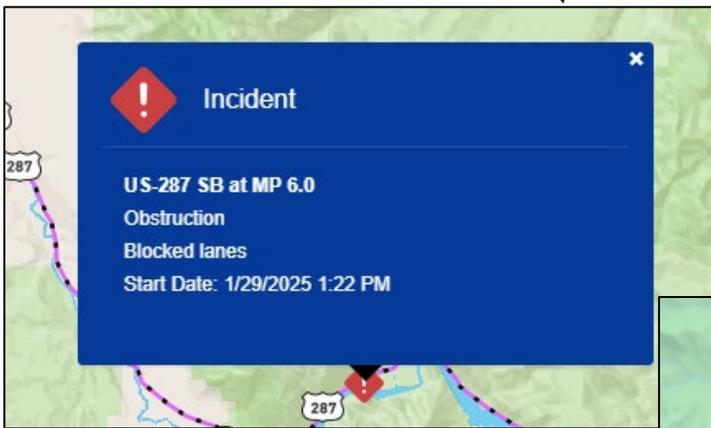
MONTANA EVENT 2: INCIDENT 1/29/25



MDT 511



Bing



MONTANA EVENT 3: INCIDENT 2/5/25,

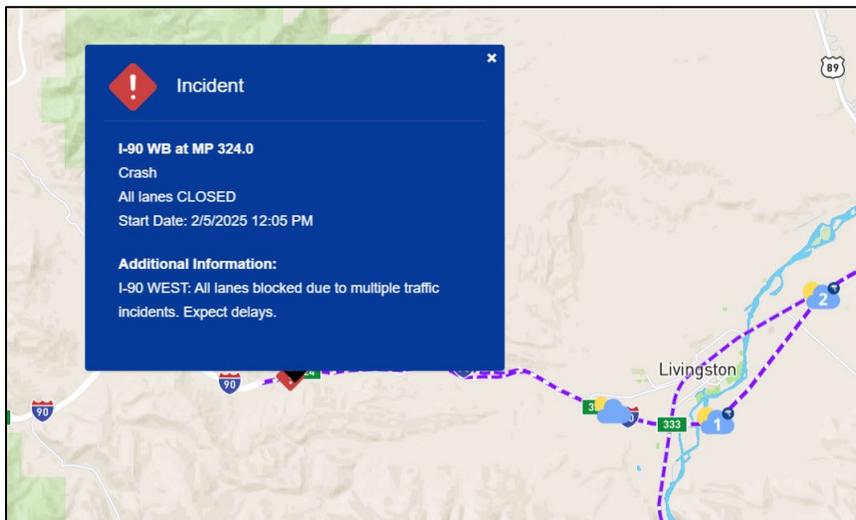
MONTANA EVENT 4: DRIVING CONDITION 2/5/25, AND

MONTANA EVENT 5: ROAD CLOSURE DUE TO WINTER WEATHER 2/5/25

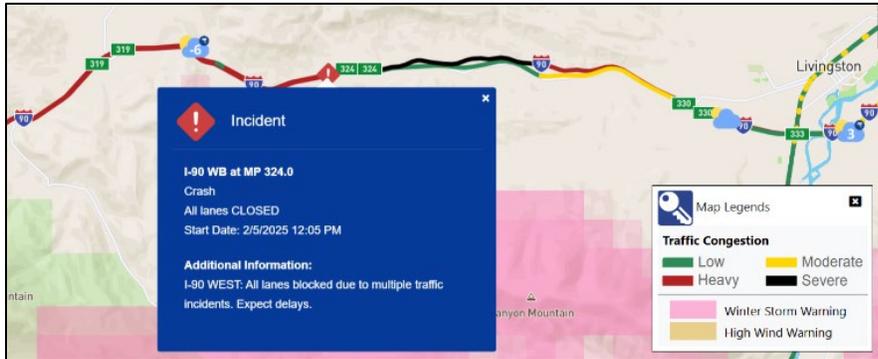
| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|--|--|--|--|--|--|---|
| State | <input type="checkbox"/> ID <input type="checkbox"/> MN <input checked="" type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | Athey Creek | | | | | | |
| Event Date | February 5, 2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input checked="" type="checkbox"/> Incident <input checked="" type="checkbox"/> Driving Condition <input checked="" type="checkbox"/> Other: Road Closure due to Winter Weather | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/ATMS | DOT 511 | Google https://www.google.com/maps | Waze www.waze.com/livemap | Bing Maps https://www.bing.com/maps/ (Select traffic or incident layer) | Apple Maps https://beta.maps.apple.com/ | Other <<Please describe>> |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report | <<Time>> | Observed at 1:37pm (Posted at 12:05pm) | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 1:40pm <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 1:42pm <input type="checkbox"/> Unknown | <input checked="" type="checkbox"/> Observed 1:39pm <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 1:44pm <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown |
| Updated | <<Time>> | 2:23pm, 2:48pm, 2:57pm | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> |
| Removed | <<Time>> | <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> |
| Event type provided (e.g., incident)? | N/A | N/A | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Impact described (e.g. lane closed)? | N/A | N/A | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Anything else to note about the event? | <<Provide any additional details about the event>> | | | | | | |

MDT 511 Incident with multiple incidents and all lanes closed

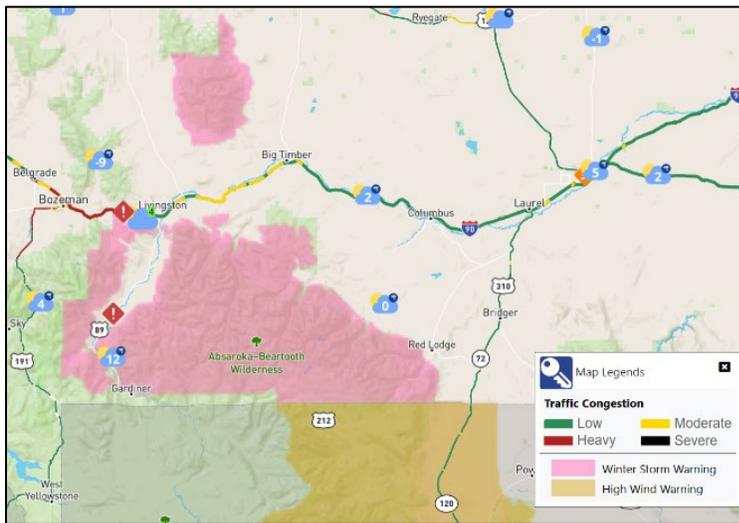
- Posted 2/5/25, 12:05 p.m.
- Observed by Athey Creek 2/5/25, 1:37 p.m.



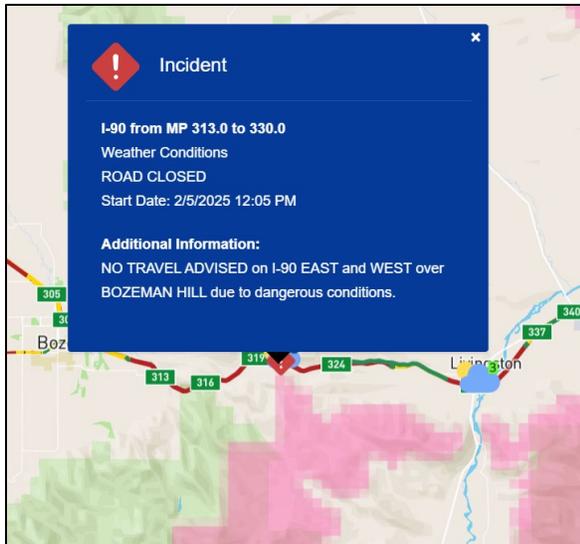
Map with legend shows winter storm warning location and traffic congestion. Observed at 1:59 p.m.



Expanded view observed at 2:13 p.m.



MDT511 reported additional travel advice. Observed at 2:23 p.m.



MDT 511 Road Segment Report. Observed at 2:48 p.m.

Road Segment Report

I-90 Nine miles east of Bozeman over Bozeman pass to Livingston

Closures
 The following closure is in effect: 1 mile east of Jackson Creek-Exit 319 to 0.75 mile east of Junction Interstate 90 Business Route-Livingston-Exit 330 - road closed due to an event until further notice.

Road Conditions
 ROAD CLOSED.

Note: Actual road conditions may vary from this report. Motorists are cautioned to be alert to changing conditions.

Events
 Travelers can expect the following: 1 mile east of Jackson Creek-Exit 319 to 0.75 mile east of Junction Interstate 90 Business Route-Livingston-Exit 330 - weather conditions and road closed until further notice.

Weather
 The forecast until 7:00 PM on Wednesday, February 5: Skies will be mostly cloudy. Visibility will be ten miles in blowing snow. There will be continuous moderate snow changing to widely scattered light snow. Winds will be 14 mph gusting to 24 mph from the west changing to 10 mph from the west. Temperatures will range from 23 to 35 F decreasing to 14 to 26 F.

Map Legend

Road Conditions

- Unknown
- Dry/Normal
- Wet/Scattered Wet
- Slush/Scattered Slush
- Scattered Frost/Ice
- Black Ice
- Snow Covered
- Scattered Snow/Ice
- Snow Ice
- Severe Driving Conditions
- Road Closed
- Closed For Season

MDT 511 includes banner showing I-90 closure. Observed at 2:57 p.m.

Incident

I-90 from MP 313.0 to 330.0
 Weather Conditions
 ROAD CLOSED
 Start Date: 2/5/2025 12:05 PM

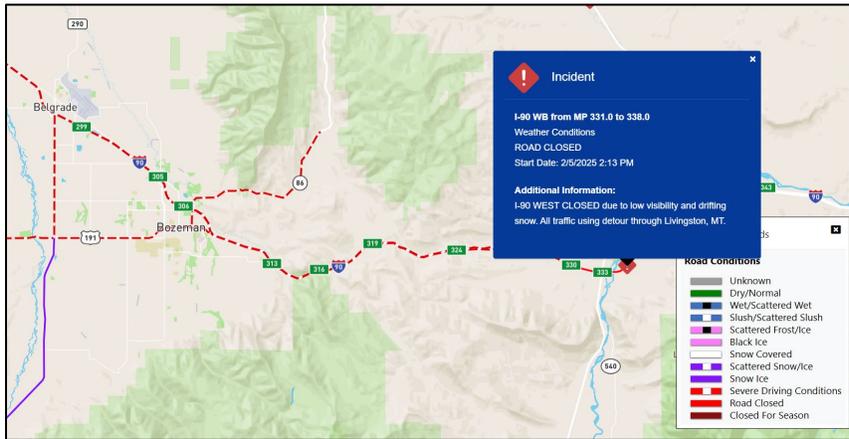
Additional Information:
 NO TRAVEL ADVISED on I-90 EAST and WEST between Bozeman and Livingston due to dangerous conditions.

Map Legend

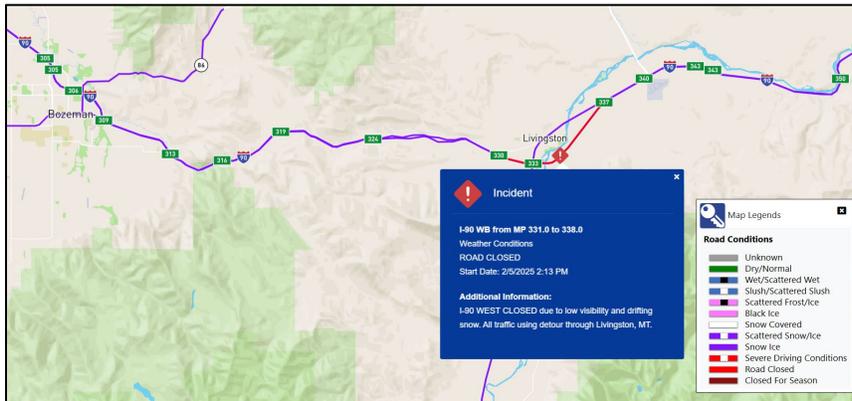
Road Conditions

- Unknown
- Dry/Normal
- Wet/Scattered Wet
- Slush/Scattered Slush
- Scattered Frost/Ice
- Black Ice
- Snow Covered
- Scattered Snow/Ice
- Snow Ice
- Severe Driving Conditions
- Road Closed
- Closed For Season

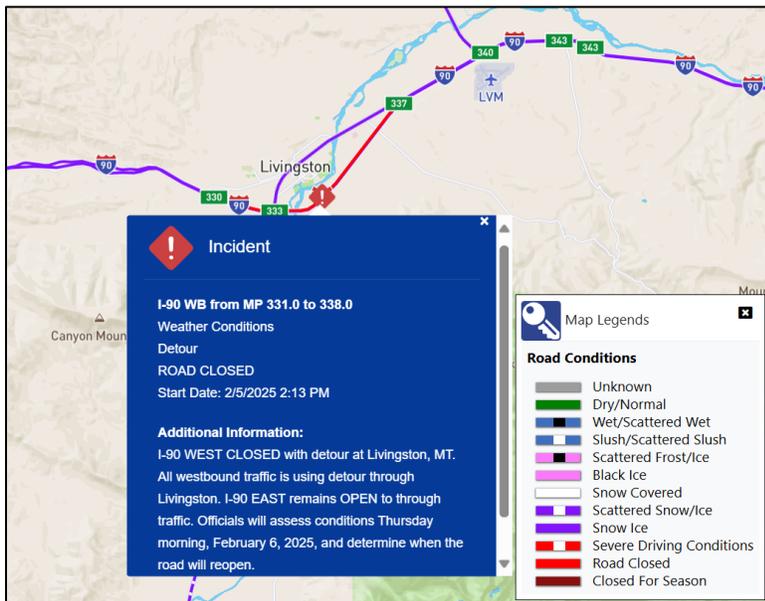
MDT 511 displays Incident with closure. Observed at 3:43 p.m.



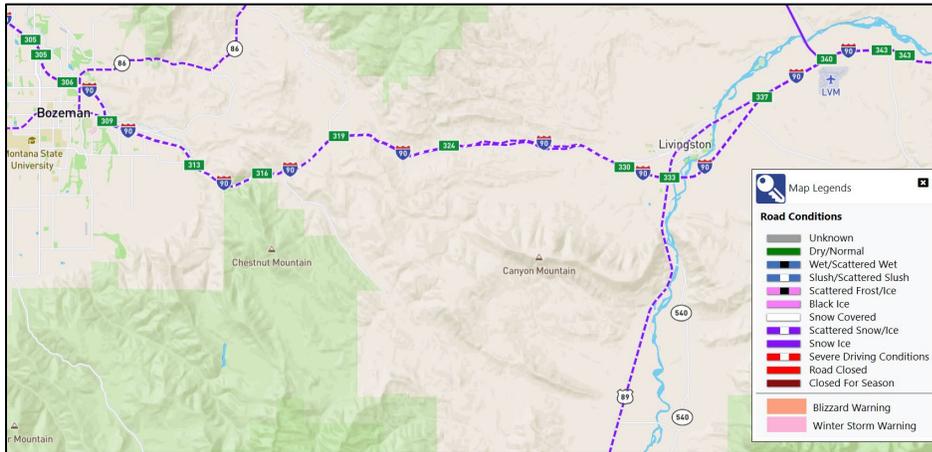
MDT 511 reports an Incident and changes road from severe driving conditions to snow and ice designations. Observed at 4:30 p.m.



MDT 511 reports interstate closed until 2/6/25. Observed 2/5/25 at 10:30 p.m.

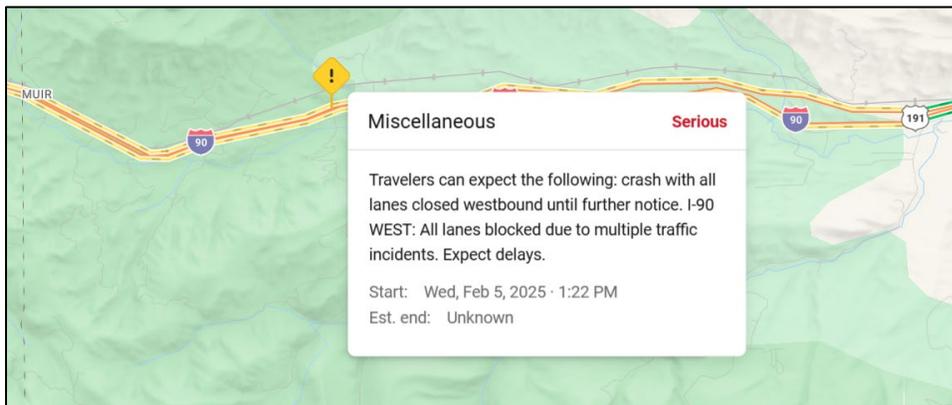


MDT 511 indicates scattered snow/ice in the area. Observed 2/6/25 at 2:22 p.m.

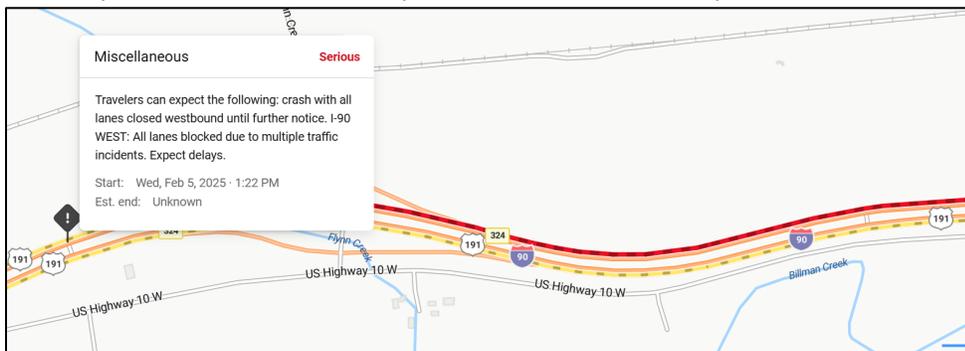


Bing

Event identified as Miscellaneous. Description reports crash posted at 1:22 p.m. Observed at 1:39 p.m.



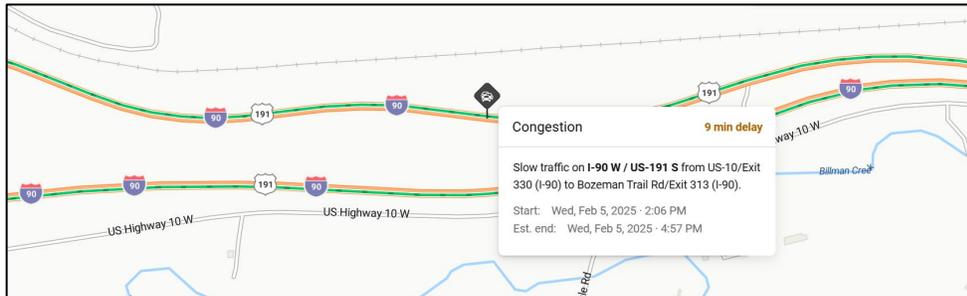
Roadway continues to show heavy traffic. Observed at 2:02 p.m.



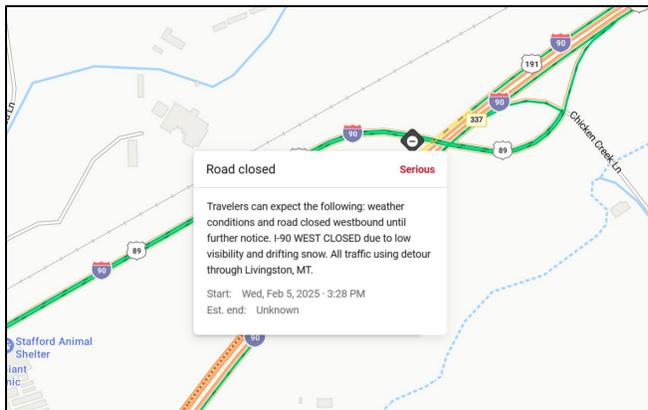
Bing also shows camera view of the area near Bozeman Pass. Observed at 2:40pm



Bing reports Congestion. Observed at 3:43 p.m.

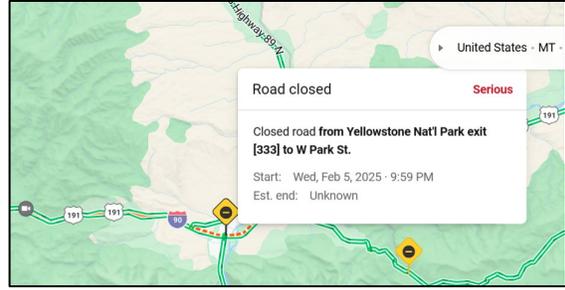
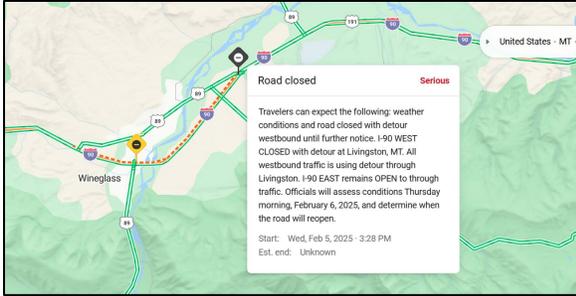


Bing shows Road Closed due to low visibility and drifting snow. Observed at 4:30 p.m.



Bing shows I-90 closure. Observed at 11:00 p.m.

**Assessment: Third-Party Mapping/Navigation Providers Display of DOT Traveler Information Events
Project 19.3 FINAL Report**

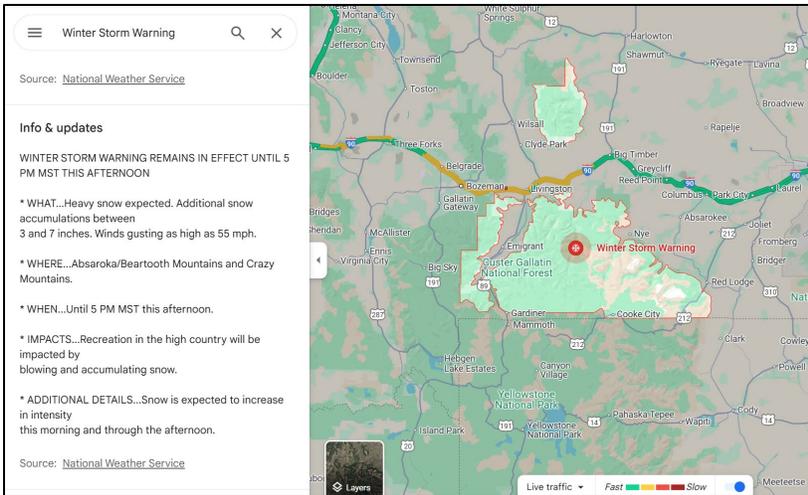


Google

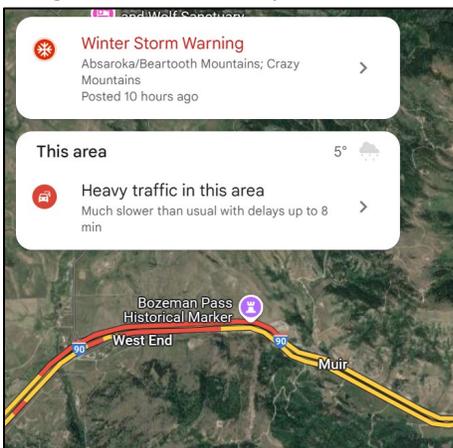
Shows heavy traffic but no incident. Observed at 1:40 p.m.



Additional Information from NWS per Google. Observed at 1:50 p.m.



Google continues to report a winter storm warning and heavy traffic. Observed at 2:19 p.m.



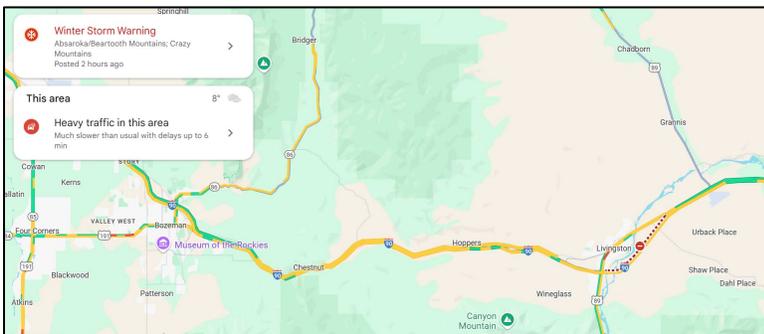
Google shows heavy traffic at Bozeman Pass. Observed at 2:26 p.m.



Traffic is observed on Google Maps in the event area but without warnings or additional information. Observed at 3:43 p.m.



Google updates map to report a winter storm warning and heavy traffic. Observed at 4:30 p.m.



Google has reported the road closure. Observed at 11:06 p.m.

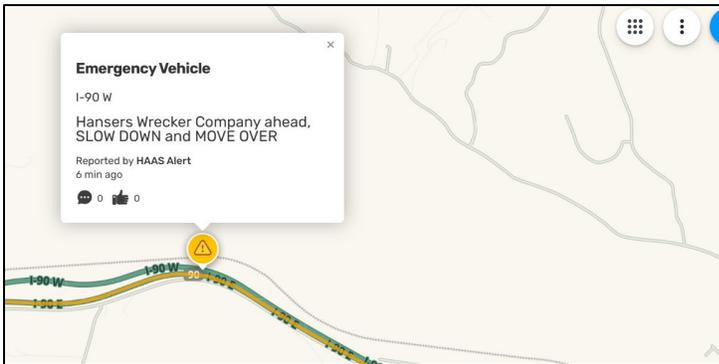


Waze

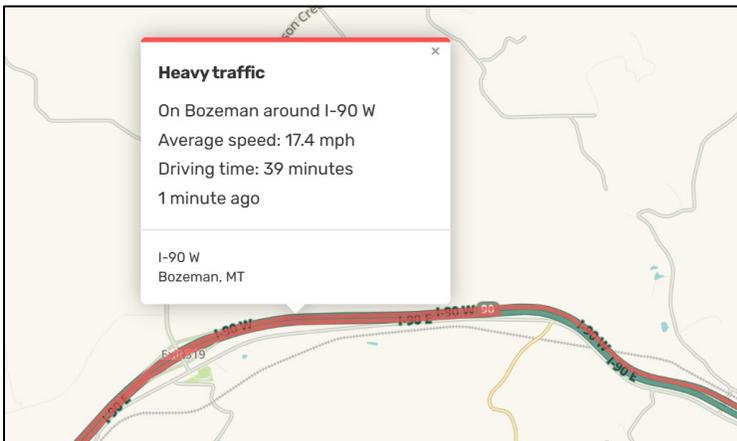
No incident reported. Observed at 1:42 p.m.



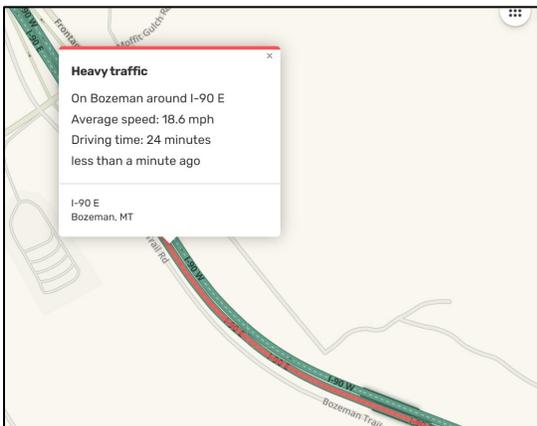
HAAS Alert shown on Waze. Observed at 1:55 p.m.



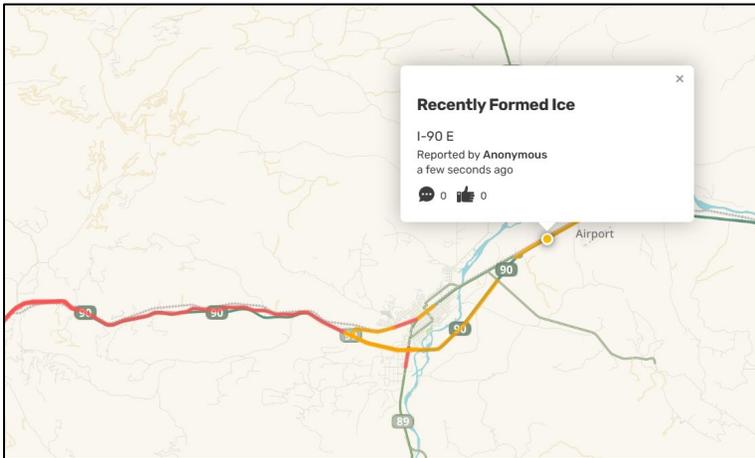
Waze reports heavy traffic in the area. Observed at 2:07 p.m.



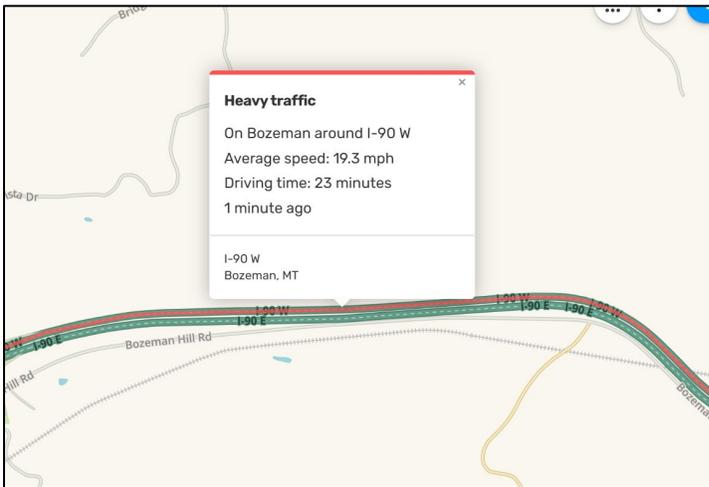
In addition, Waze is reporting heavy traffic eastbound. Observed at 2:09 p.m.



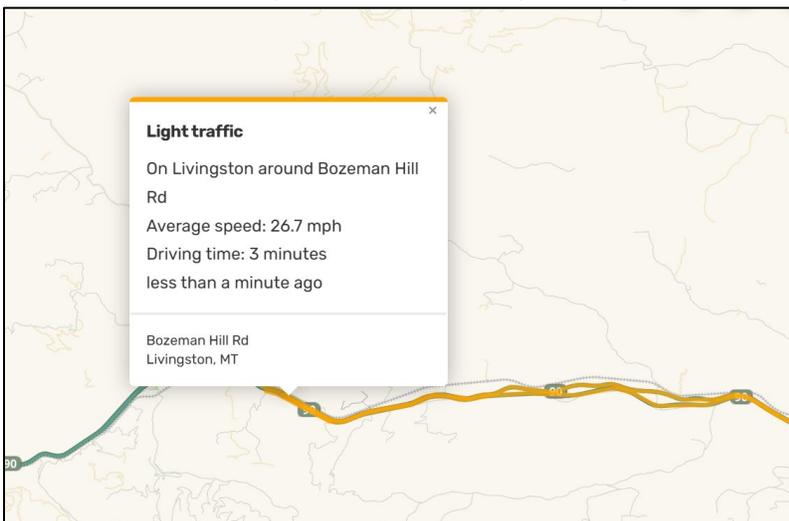
A Wazer reported recently formed ice. Observed at 2:11 p.m.



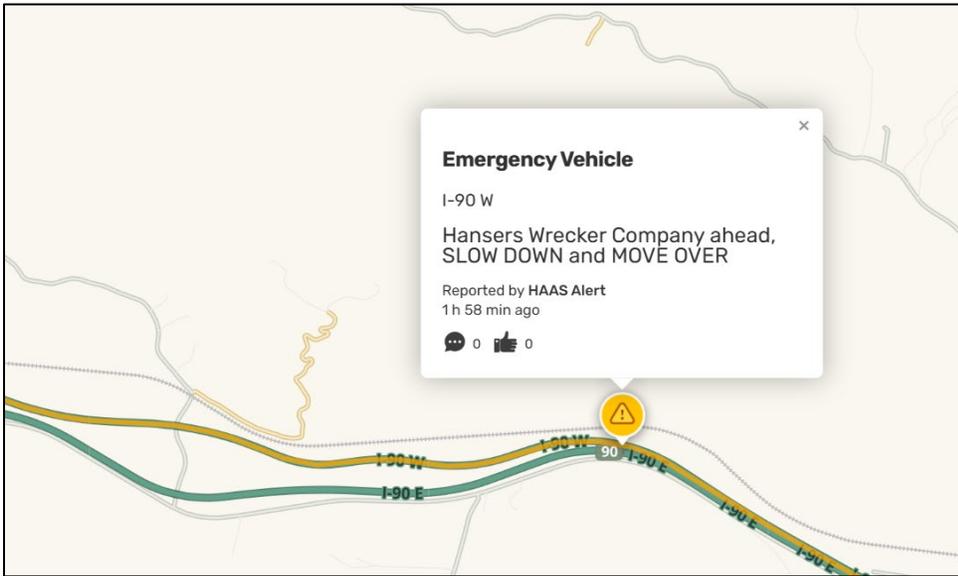
Waze continues to report heavy traffic. Observed at 2:28 p.m.



After I-90 was closed by MDT DOT, Waze reported light traffic in the area. Observed at 2:54 p.m.



Waze shows an Emergency Vehicle reported by HAAS Alert. Observed at 3:43 p.m.



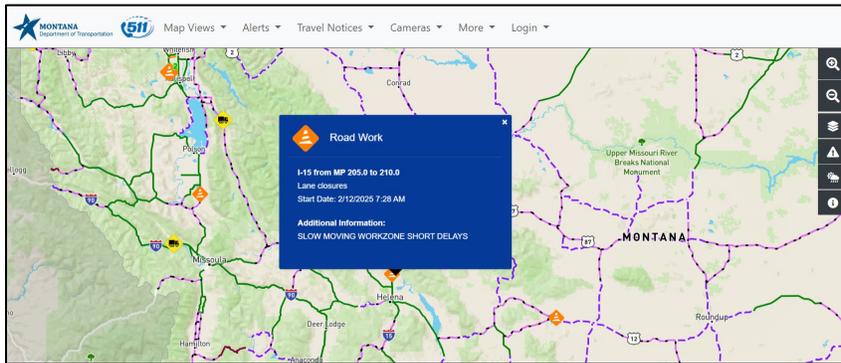
The Waze map shows traffic in the area. Observed at 4:30 p.m.



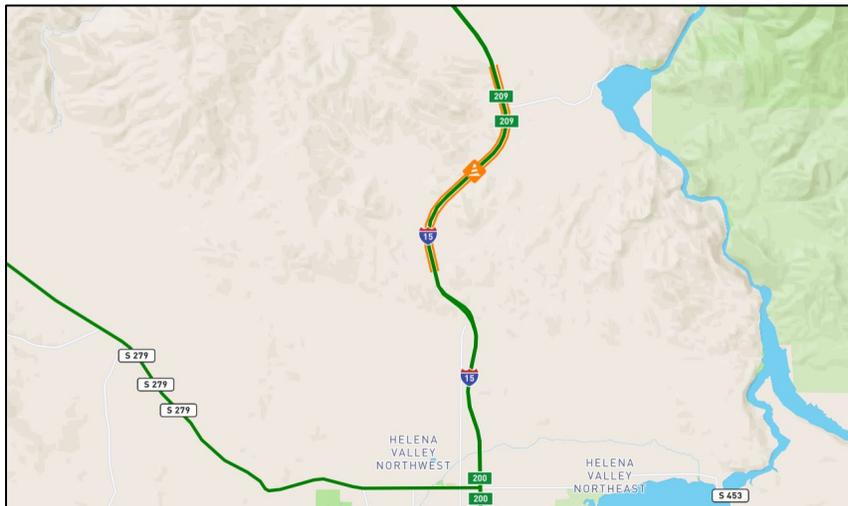
MONTANA EVENT 6: ROAD WORK 2/12/25

MDT 511

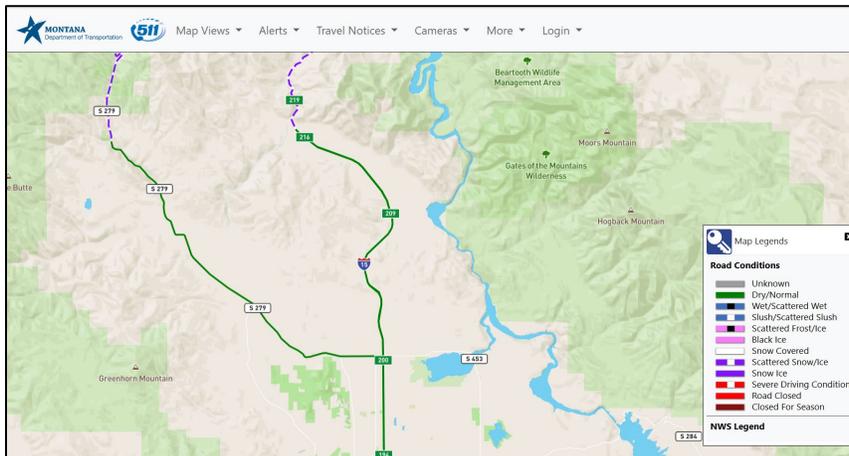
Posted Road Work notice at 7:28 a.m. Observed by Athey Creek at 8:38 a.m.
Nothing out of the ordinary was observed on any third-party application.



A closer view of the area shows the section.

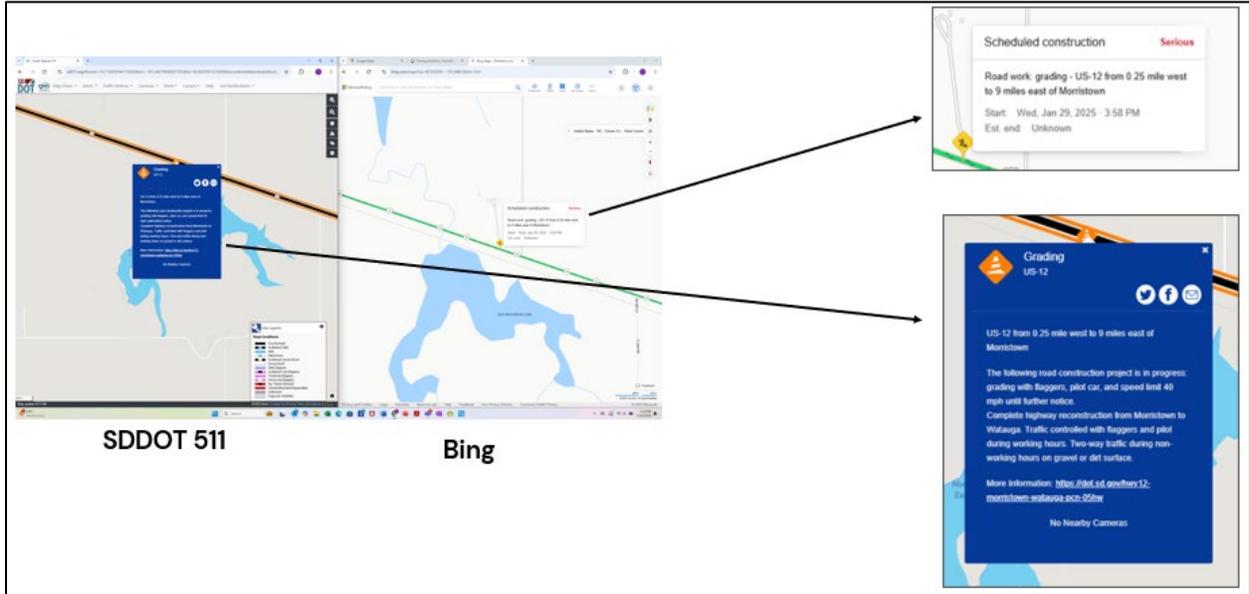


No construction is noted at 12:24 p.m., and the road appears to be in normal driving condition.



APPENDIX E: EVENTS OBSERVED – SOUTH DAKOTA DOT

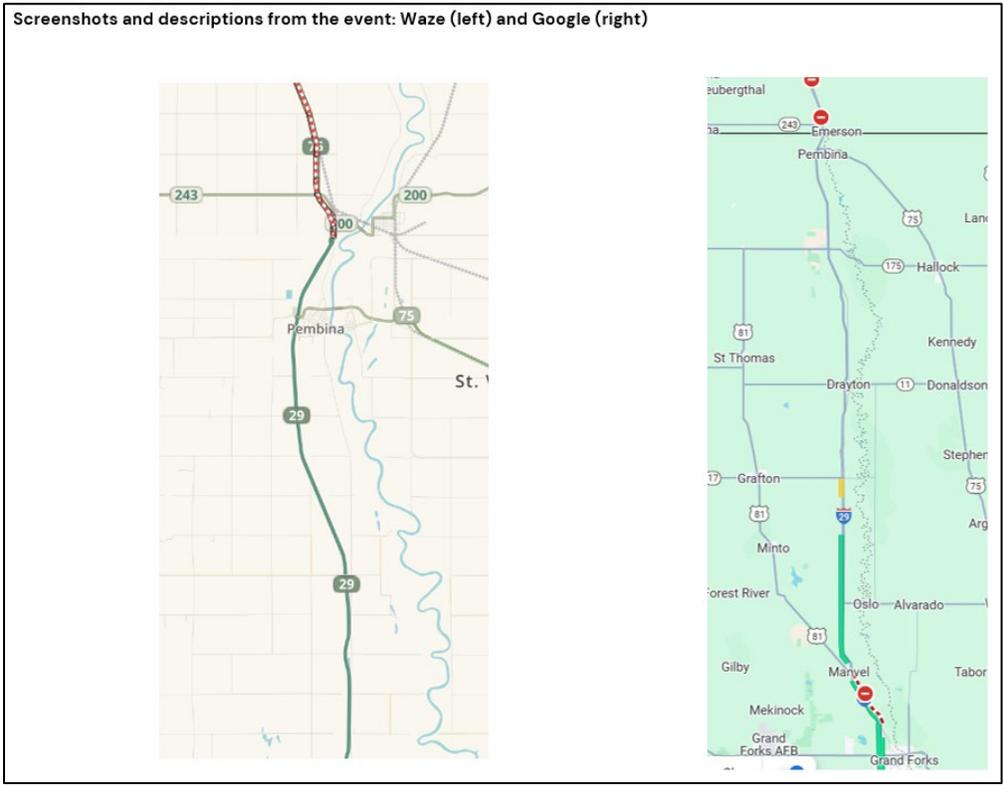
SOUTH DAKOTA EVENT 1: ROAD WORK 1/29/25



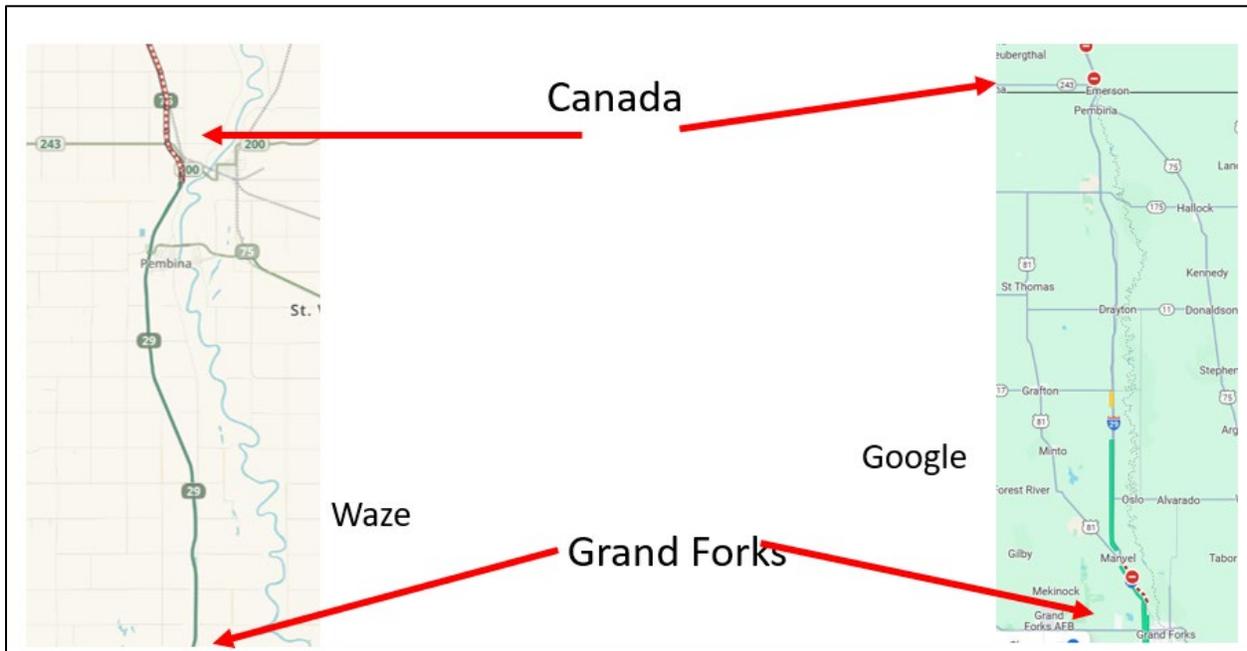
APPENDIX F: EVENTS OBSERVED – NORTH DAKOTA DOT

NORTH DAKOTA EVENT 1: ROAD CLOSURE 1/17/25

| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|--|---------------|--|--|--|--|--|
| State | <input type="checkbox"/> ID <input type="checkbox"/> MN <input type="checkbox"/> MT <input checked="" type="checkbox"/> ND <input type="checkbox"/> SD <input type="checkbox"/> WA <input type="checkbox"/> WY | | | | | | |
| Contact | Barry Kinnischtzke, bkinnischtzke@nd.gov | | | | | | |
| Event Date | January 17, 2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input type="checkbox"/> Incident <input checked="" type="checkbox"/> Driving Condition <input type="checkbox"/> Other: Road closure of I-29 Grand Forks to Canada due to severe winter weather | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/ATMS | DOT 511 | Google https://www.google.com/maps | Waze www.waze.com/livemap | Bing Maps https://www.bing.com/maps/ (Select traffic or incident layer) | Apple Maps https://beta.maps.apple.com/ | Other «Please describe» |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report | 11:00 | 11:00 | <input checked="" type="checkbox"/> Observed 13:00 <input type="checkbox"/> Not shown N/A <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed N/A <input checked="" type="checkbox"/> Not shown N/A <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed N/A <input type="checkbox"/> Not shown N/A <input checked="" type="checkbox"/> Unknown | <input type="checkbox"/> Observed N/A <input type="checkbox"/> Not shown N/A <input checked="" type="checkbox"/> Unknown | <input type="checkbox"/> Observed N/A <input type="checkbox"/> Not shown N/A <input checked="" type="checkbox"/> Unknown |
| Updated | N/A | N/A | <input type="checkbox"/> Observed N/A <input type="checkbox"/> Not shown N/A | <input type="checkbox"/> Observed N/A <input type="checkbox"/> Not shown N/A | <input type="checkbox"/> Observed N/A <input type="checkbox"/> Not shown N/A | <input type="checkbox"/> Observed N/A <input type="checkbox"/> Not shown N/A | <input type="checkbox"/> Observed N/A <input type="checkbox"/> Not shown N/A |
| Removed | 16:30 | 16:30 | <input checked="" type="checkbox"/> Observed 17:10 <input type="checkbox"/> Not shown N/A | <input type="checkbox"/> Observed N/A <input checked="" type="checkbox"/> Not shown N/A | <input type="checkbox"/> Observed N/A <input type="checkbox"/> Not shown N/A | <input checked="" type="checkbox"/> Observed 18:00 <input type="checkbox"/> Not shown N/A | <input type="checkbox"/> Observed N/A <input type="checkbox"/> Not shown N/A |
| Event type provided (e.g., incident)? | N/A | N/A | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Impact described (e.g. lane closed)? | N/A | N/A | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Anything else to note about the event? | Google – Did not close the entire road, only near Grand Forks. The closure around Grand Forks could have been put on sooner than 13:00 as it was not seen until then. Waze – Closure never appeared in North Dakota but appeared in Canada. Apple Maps – Did not have access to it until was able to observe the removal of the closure. | | | | | | |



- Summary of Event
 - Google – Did not close the entire road, only near Grand Forks. The closure around Grand Forks could have been put on sooner than 13:00 as it was not seen until then.
 - Waze – Closure never appeared in North Dakota but appeared in Canada.
- Observations / possible explanations for discussion:
 - Perhaps Google created this based on their own data from vehicles?
 - Perhaps Waze has another source in Canada?
 - Perhaps Google/Waze border areas are confusing/overlapping?



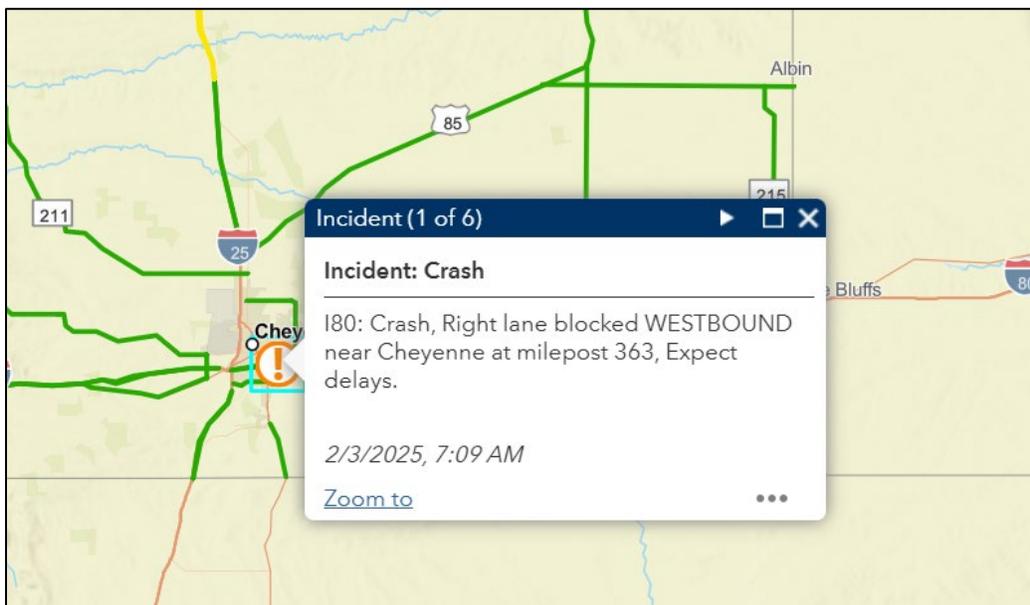
APPENDIX G: EVENTS OBSERVED – WYOMING DOT

WYOMING EVENT 1: INCIDENT 2/3/25

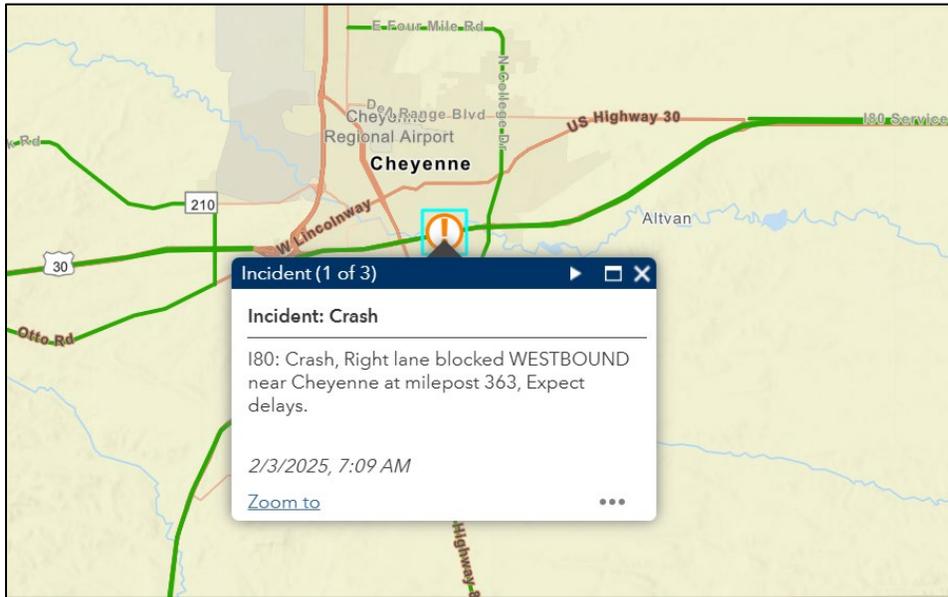
| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|--|---|---|--|---|--|---|
| State | <input type="checkbox"/> ID <input type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input type="checkbox"/> WA <input checked="" type="checkbox"/> WY | | | | | | |
| Contact | Athey Creek | | | | | | |
| Event Date | February 3, 2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input checked="" type="checkbox"/> Incident <input type="checkbox"/> Driving Condition <input type="checkbox"/> Other: <<Please describe>> | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/ATMS | DOT 511 | Google https://www.google.com/maps | Waze www.waze.com/livemap | Bing Maps https://www.bing.com/maps/ (Select traffic or incident layer) | Apple Maps https://beta.maps.apple.com/ | Other <<Please describe>> |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report | <<Time>> | 7:09 am reported by WYDOT 7:16 am Observed | <input checked="" type="checkbox"/> Observed 7:22 am: slowed traffic <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 7:21 am <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 7:19 am <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input checked="" type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown |
| Updated | <<Time>> | <<Time>> | <input checked="" type="checkbox"/> Observed 7:28, 7:39am: Crash 8:32 am: back as Crash 8:41 am: still shown as Crash <input checked="" type="checkbox"/> Not shown 8:04am | <input checked="" type="checkbox"/> Observed 7:28, 7:39am: Car Accident by Waze 8:32 am: back as Car Accident by Waze <input checked="" type="checkbox"/> Not shown 8:04am | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 7:28, 7:39, 7:52, 8:04, 8:32 am | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> |
| Removed | <<Time>> | 8:41 am cleared on DOT site | <input checked="" type="checkbox"/> Observed 8:04 am 8:49 am <input type="checkbox"/> Not shown | <input checked="" type="checkbox"/> Observed 8:04 am, 8:41 am: shown as Police by Waze <input type="checkbox"/> Not shown | <input checked="" type="checkbox"/> Observed 8:41 am <input type="checkbox"/> Not shown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> |
| Event type provided (e.g., incident)? | N/A | N/A | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Impact described (e.g. lane closed)? | N/A | N/A | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |

WYDOT 511

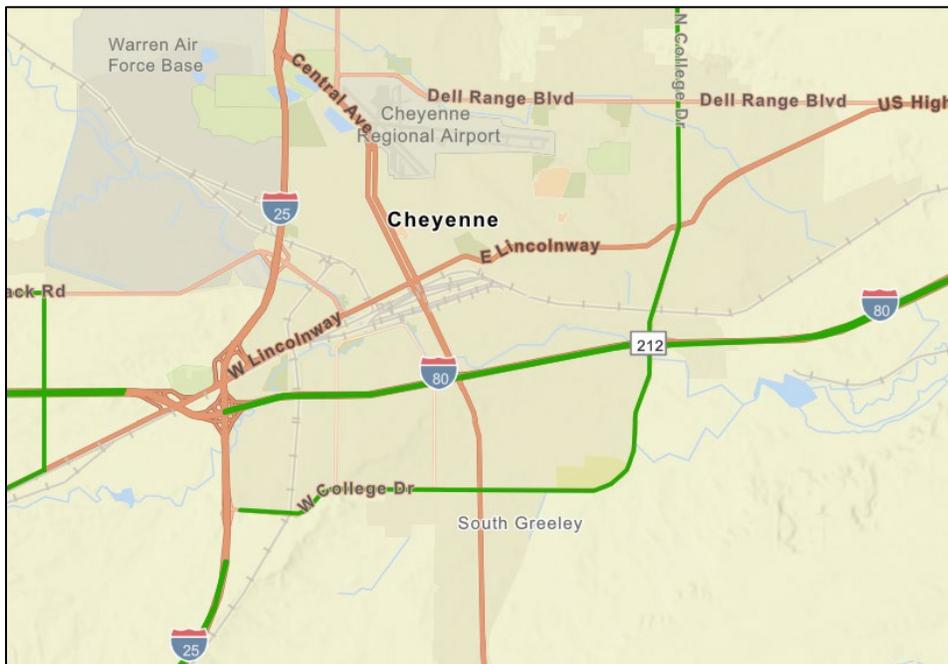
Crash observed on WYDOT 511 map at 7:16 a.m.



At 8:32 a.m. the Incident warning remains on the WYDOT 511 map.



WYDOT 511 stopped showing an incident. Observed at 8:41 a.m.

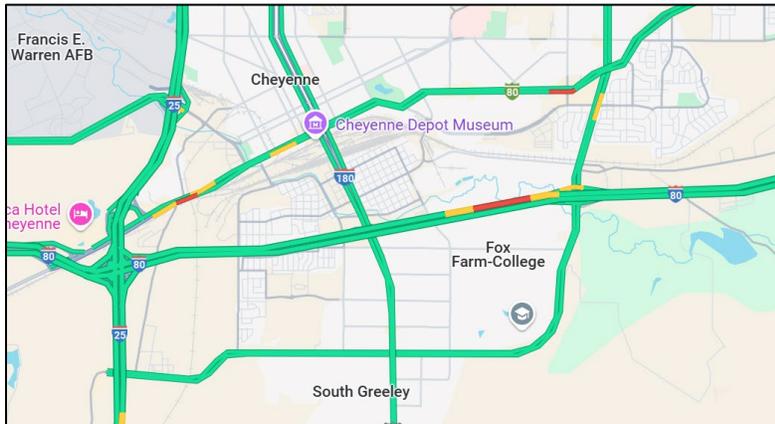


Google

Displayed as Crash and shown with slow traffic on Google. Observed at 7:28 a.m.



Crash designation has been removed from Google and just slow traffic coloring remains. Observed at 8:04 a.m.



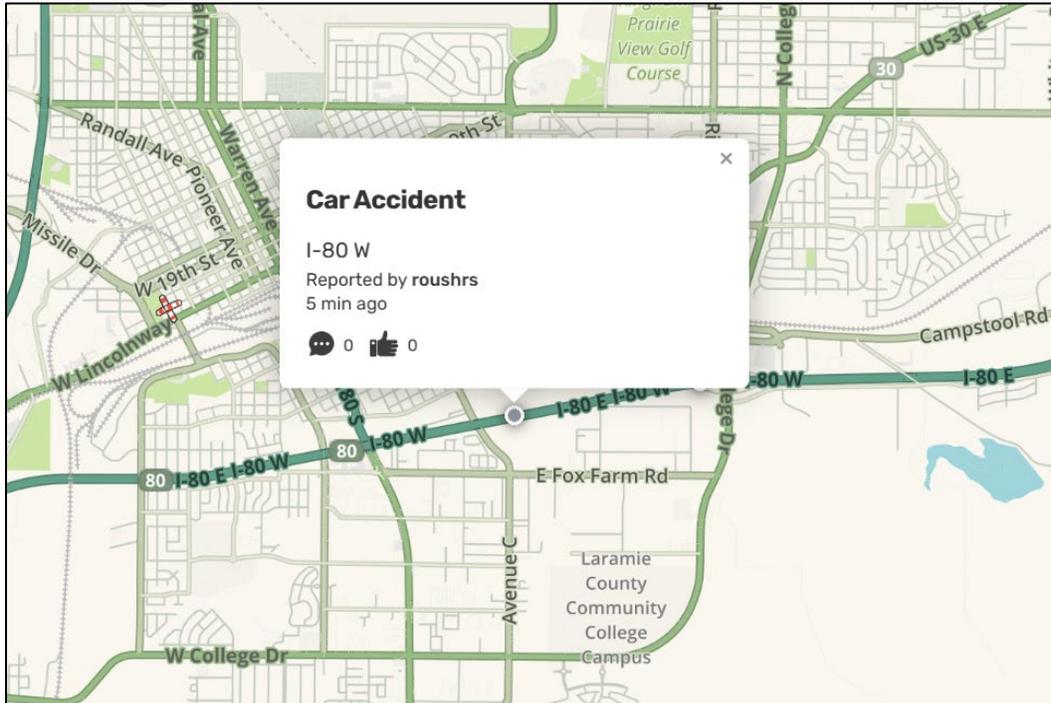
At 8:32 a.m. a Crash is again displayed on Google Maps. This may or may not be the same incident. This map continues to be displayed after 8:41 a.m. when WYDOT 511 removes the incident from their map.



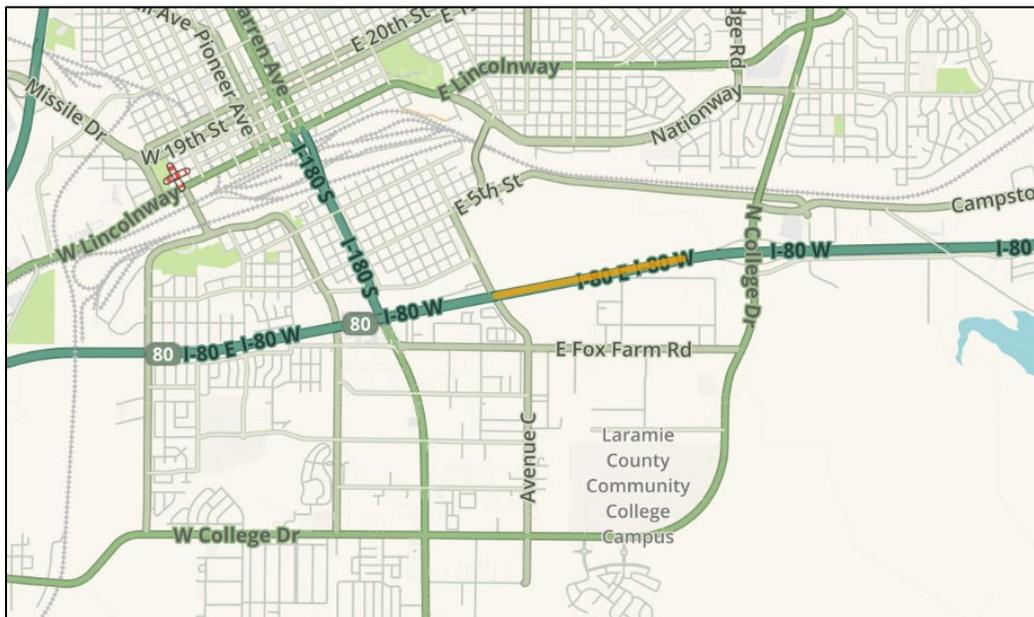
At 8:49 a.m. the Crash was observed to be cleared from the Google map.

Waze

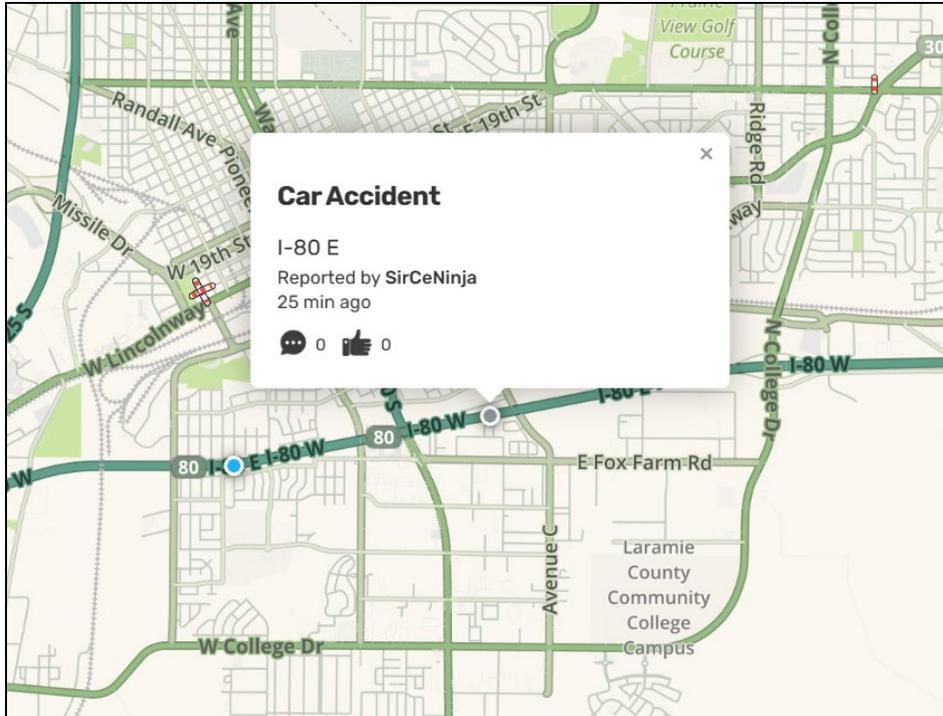
Reported as a Car Accident by Wazer, but nothing from official sources. Observed at 7:28 a.m.



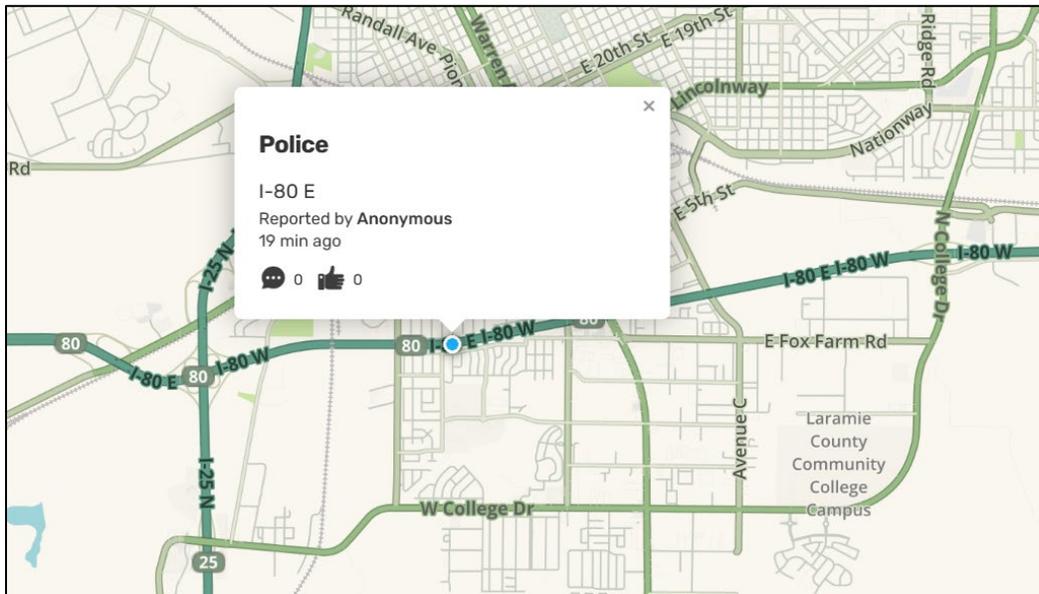
Crash designation has been removed from Waze and just slow traffic markings remain. Observed at 8:04 a.m.



At 8:32 a.m. a Car Accident icon (reported by a Wazer) reappears on the map. This could be due to Wazer reports timing out after a period of time or it could potentially be a second incident in the area.



At 8:41 a.m.(after the incident was cleared from the WYDOT 511 map), Waze displays Police in the area (reported by a Wazer) but no car accident.

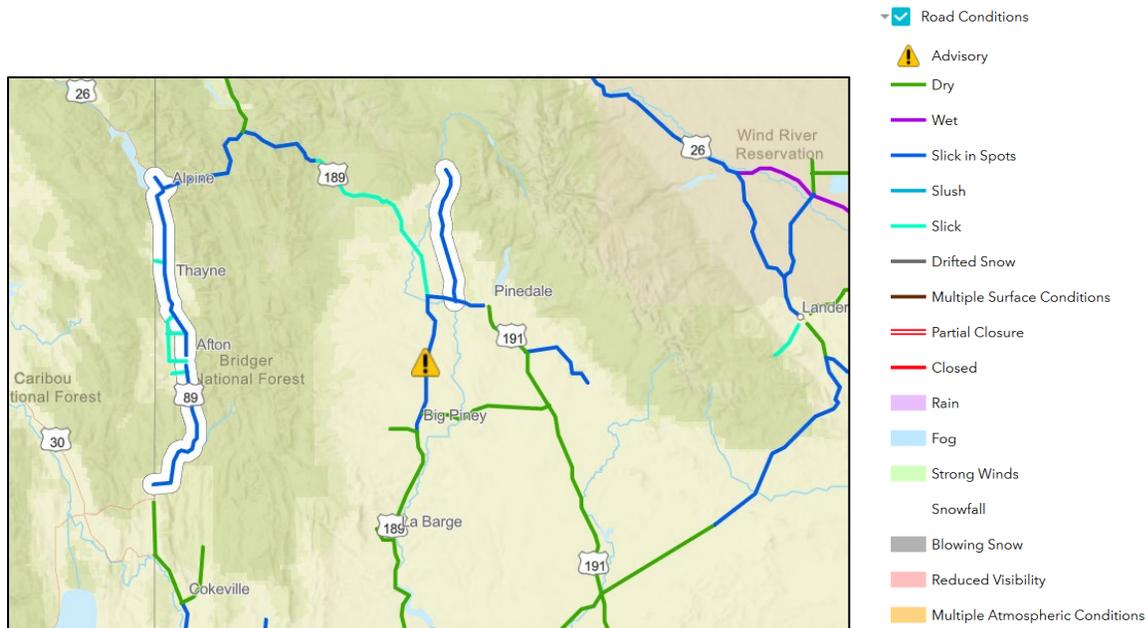


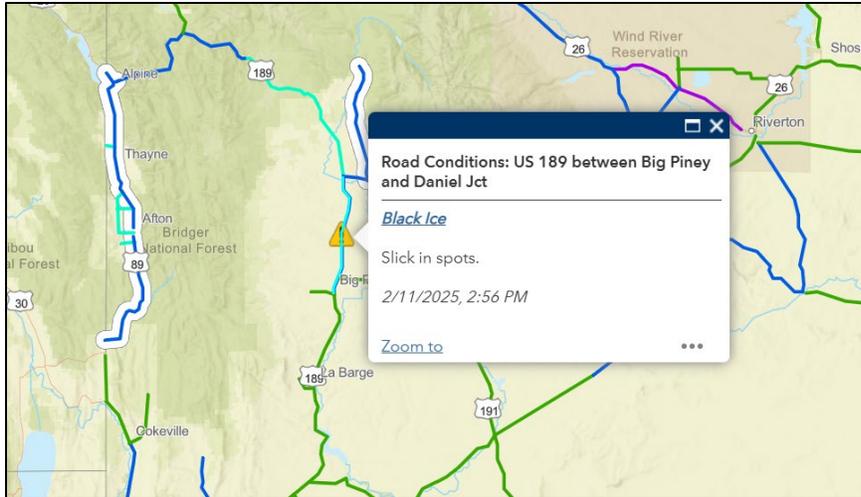
WYOMING EVENT 2: DRIVING CONDITION 2/11/25

| NORTH/WEST PASSAGE TRAVELER INFORMATION EVENT ASSESSMENT FORM | | | | | | | |
|---|--|---------------|---|--|--|--|---|
| State | <input type="checkbox"/> ID <input type="checkbox"/> MN <input type="checkbox"/> MT <input type="checkbox"/> ND <input type="checkbox"/> SD <input type="checkbox"/> WA <input checked="" type="checkbox"/> WY | | | | | | |
| Contact | Athey Creek | | | | | | |
| Event Date | February 11, 2025 | | | | | | |
| Event Type | <input type="checkbox"/> Road Work <input type="checkbox"/> Incident <input checked="" type="checkbox"/> Driving Condition <input type="checkbox"/> Other: <<Please describe>> | | | | | | |
| Event Times | DOT | | Third-Party | | | | |
| | DOT Reporting System/ATMS | DOT 511 | Google https://www.google.com/maps | Waze www.waze.com/livemap | Bing Maps https://www.bing.com/maps/ (Select traffic or incident layer) | Apple Maps https://maps.apple.com/ | Other <<Please describe>> |
| | Actual Time Entered | Observed Time | Not Shown, Observed Time, or Unknown (consider viewing mobile apps) | | | | |
| Initial Report | <<Time>> | 2:56pm | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 3:04pm (shows slowed traffic) <input type="checkbox"/> Unknown | <input checked="" type="checkbox"/> Observed 3:09pm (Recently Formed Ice by TriHydro) <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 3:02pm <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 3:11pm (laptop), 3:13pm (mobile) <input type="checkbox"/> Unknown | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> <input type="checkbox"/> Unknown |
| Updated | <<Time>> | 9:34pm | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 9:35pm | <input checked="" type="checkbox"/> Observed 9:36pm <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 9:35pm | <input type="checkbox"/> Observed <<Time>> <input checked="" type="checkbox"/> Not shown 9:37pm (laptop) | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> |
| Removed | <<Time>> | <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> | <input type="checkbox"/> Observed <<Time>> <input type="checkbox"/> Not shown <<Time>> |
| Event type provided (e.g., incident)? | N/A | N/A | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Impact described (e.g. lane closed)? | N/A | N/A | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Anything else to note about the event? | Though I wasn't available to observe when the DOT cleared the event, I wanted to show that though Waze and Bing did not show road conditions, Waze (through TriHydro) did report ice. | | | | | | |

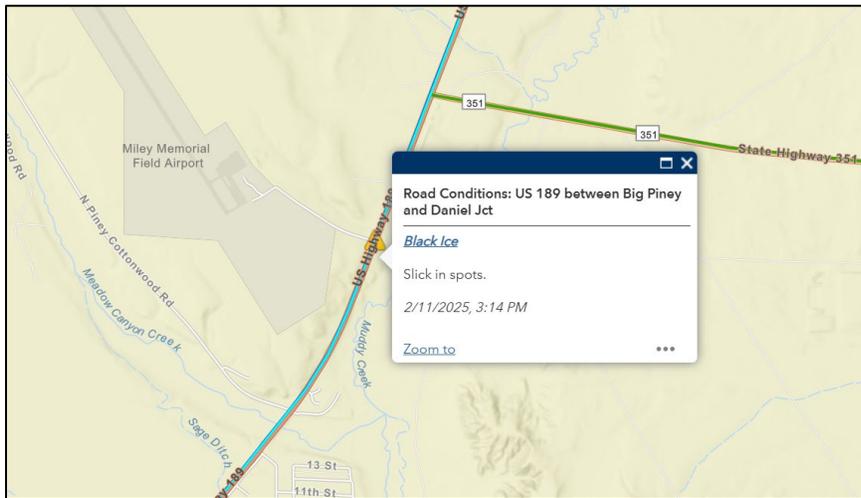
WYDOT 511

At 2:56 p.m. a Road Condition warning (black ice) was observed on WYDOT 511. The map image and a legend for the WYDOT 511 map is shown below.

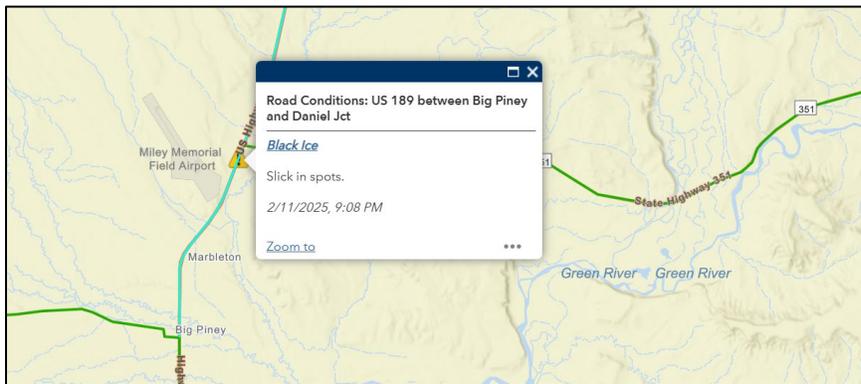




At 3:14 p.m. it appears that WYDOT 511 updated the map a bit.

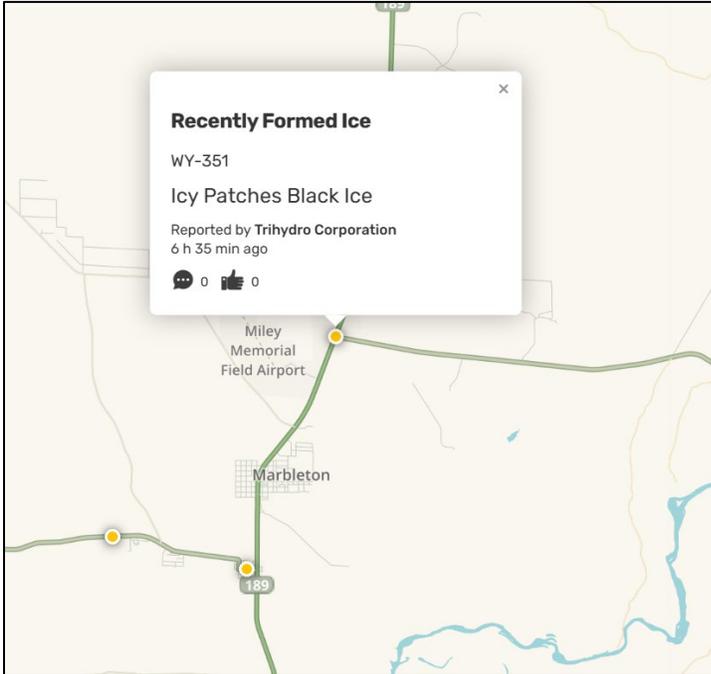


To show motorists when the information was last verified, WYDOT continues to update the 511 map even when little information has changed. Observed at 9:34 p.m.

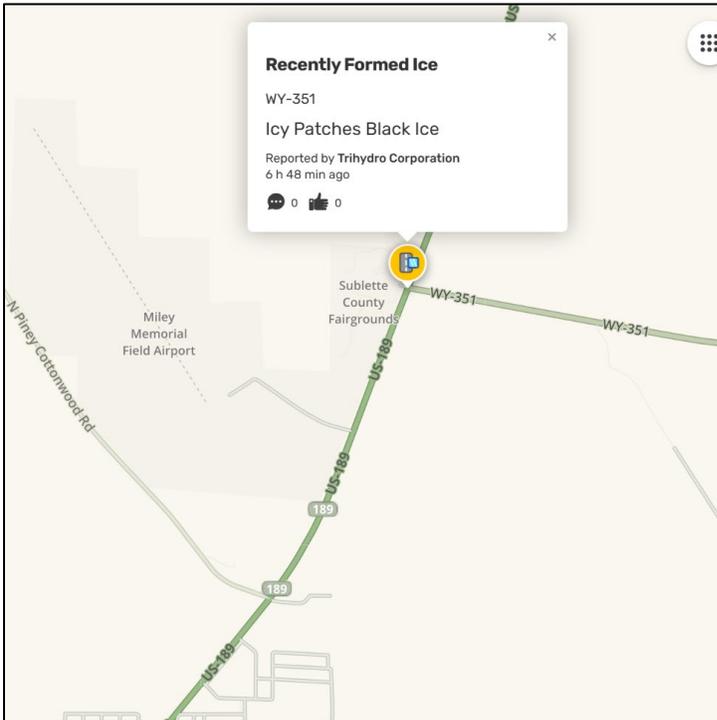


Waze

At 3:09 p.m., Athey Creek observed an icon on Waze the identified Recently Formed Ice that was reported by Trihydro.



Area continued to be observed at 3:22 p.m. The icon appears to have changed but is likely due to zooming in more. It was observed that this map continued to be displayed at 9:36 p.m.



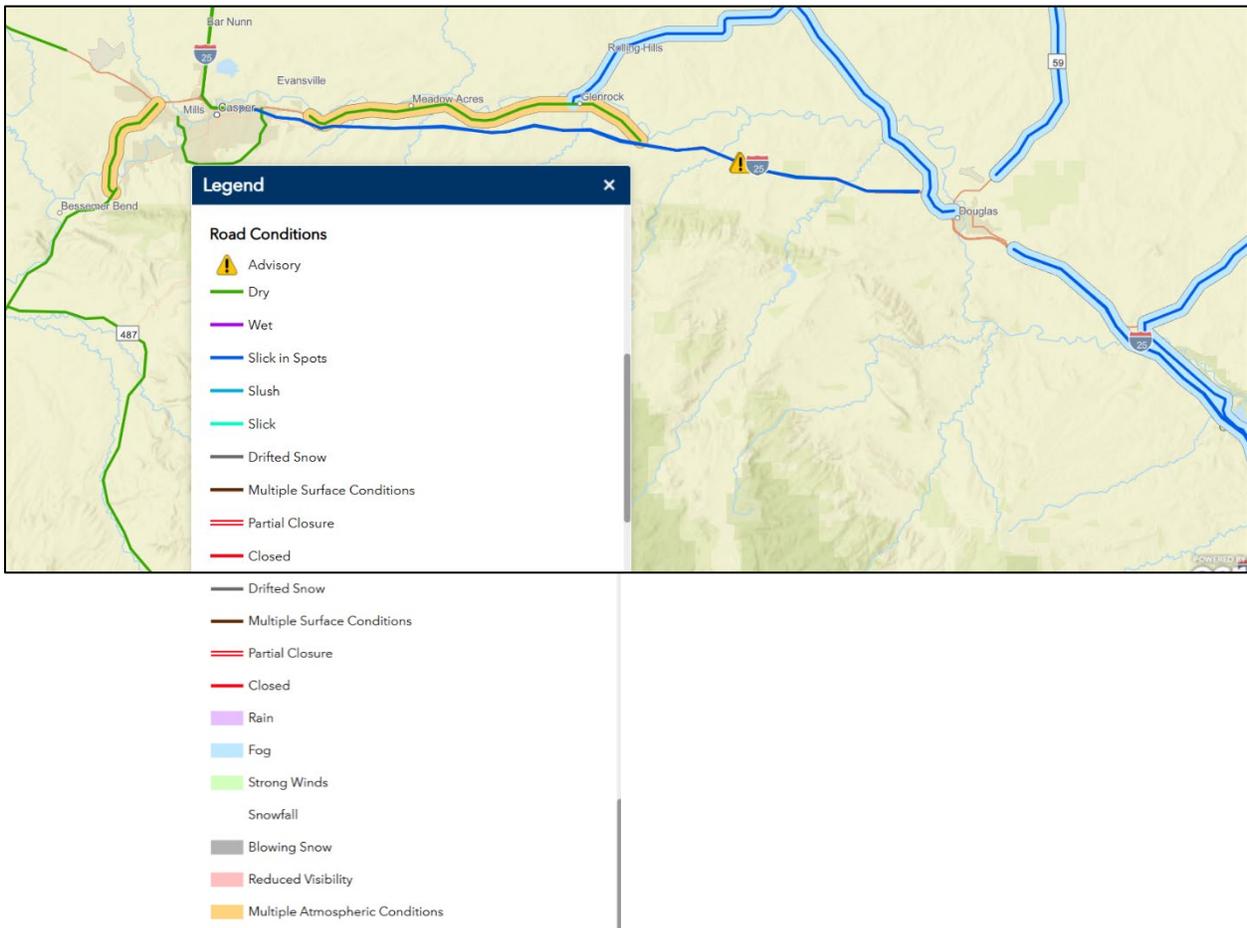
WYOMING EVENT 3: DRIVING CONDITION 4/3/25

WYDOT 511

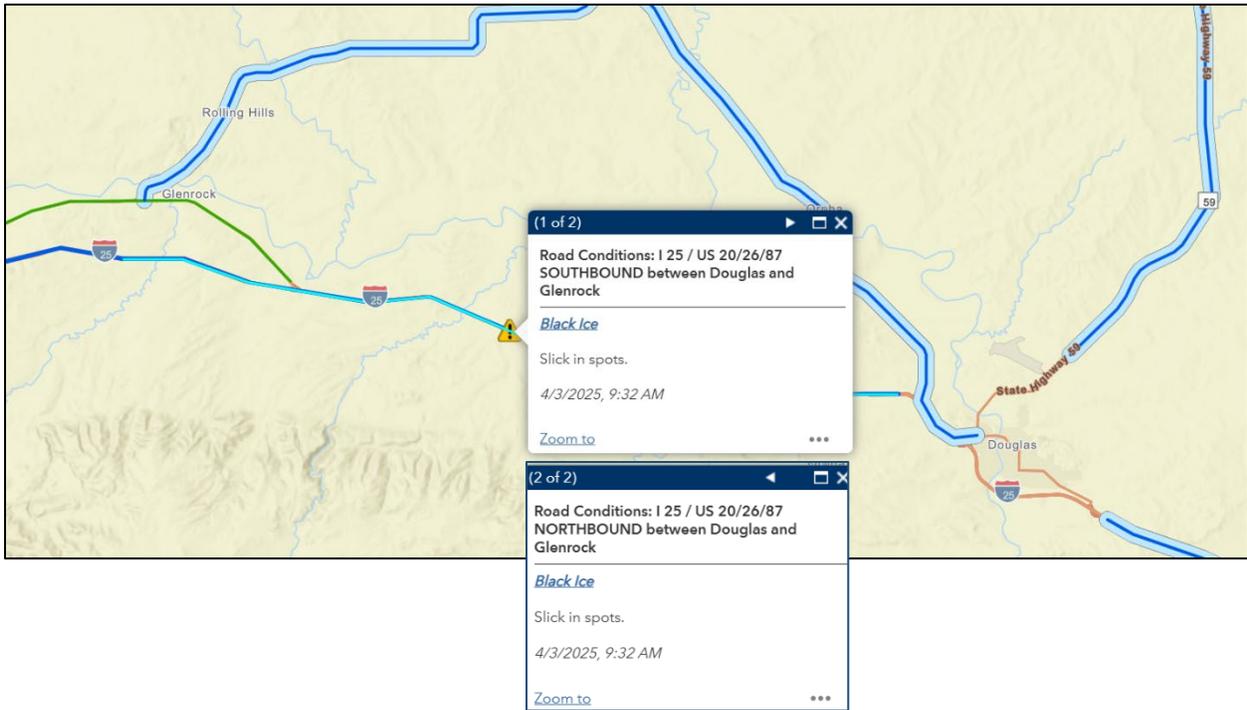
A Road Condition report was observed on WYDOT 511 on 4/3/25 at 8:51 a.m.



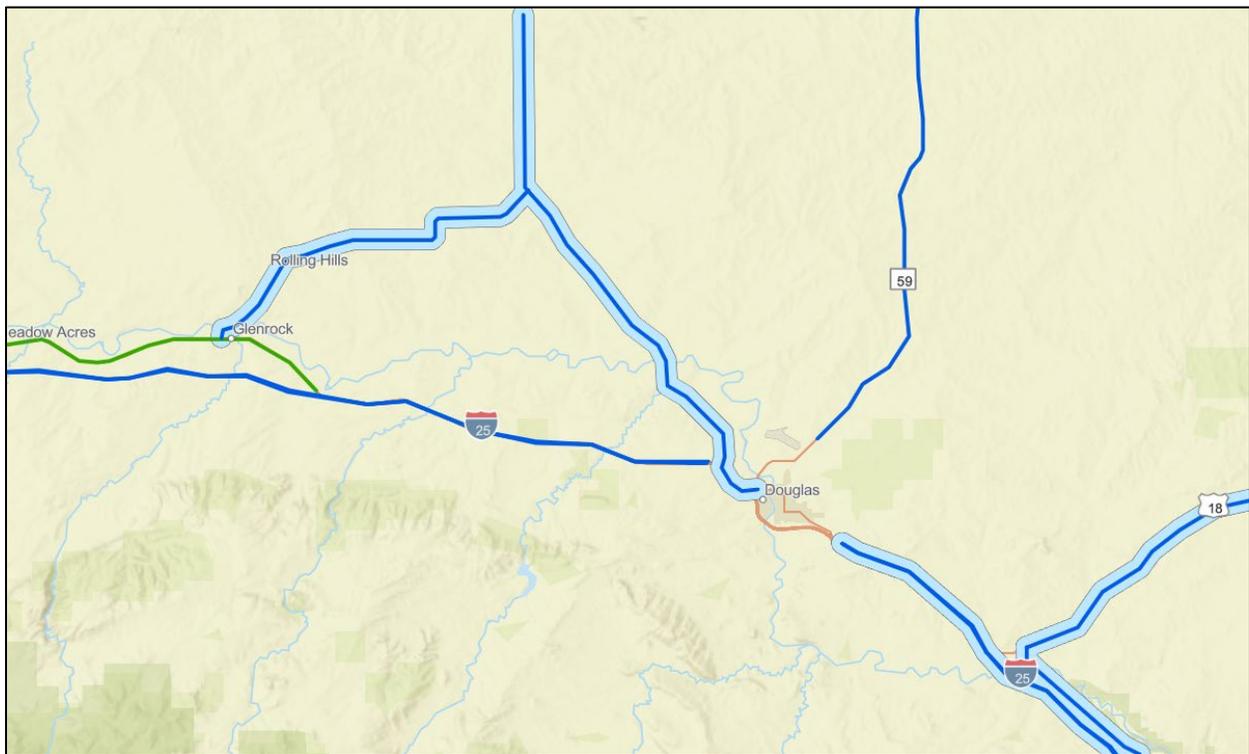
Road conditions in the area are shown below with the WYDOT Traveler Information map legend.



Road conditions appear to have changed slightly based on this WYDOT 511 map. Observed at 9:33 a.m.

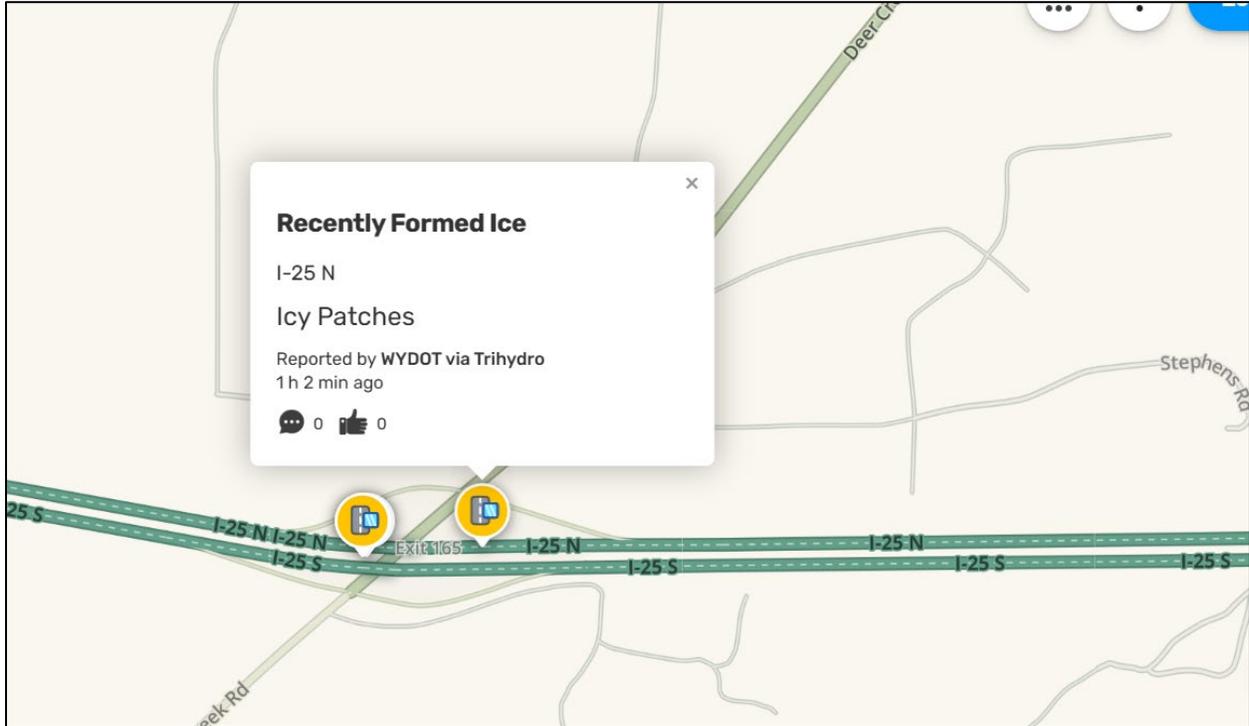


Road condition icon was observed to have been removed at 10:04 a.m.



Waze

WYDOT (through Trihydro) shared information with Waze regarding the road condition. Observed at 9:31 a.m. and again at 10:07 a.m.



The Waze map was viewed at 1:12 p.m. and found that the ice warning icons had been removed since the 10:07 a.m. observation

The Google and Bing maps did not appear to have any road condition warning icons on them during the observation period.