TMC Monthly Operational Summary

Bureau of Transportation Systems Management & Operations (TSMO)

NH Department of Transportation's Mission

Transportation excellence enhancing the quality of life in New Hampshire.

Transportation Management Center's Mission

The Transportation Management Center's mission is to detect, verify, and respond to incidents that affect the state transportation network. It serves to improve traffic operations, provide the public with current, accurate and useful travel and commuter information that promotes safe and efficient travel, as well as facilitates the maintenance of New Hampshire's transportation system.

New Hampshire Transportation Management Center Coverage Areas by District

The State of New Hampshire is divided into six Districts and the New Hampshire Turnpike System comprising of approximately 9,266 lane miles.

Permanent ITS Equipment List

Closed-Circuit Television (CCTV) Cameras	2020 Total	2021 Total
CCTV cameras are used to pinpoint and monitor traffic events so that information can be disseminated quickly and accurately.	119	120

Dynamic Message Signs (DMS)		
DMS aid in sending messages to motorists to inform them of traffic events that may be impacting their route ahead.	56 16[1] 20[2]	56 16[1] 20[2]

[1] Additional DMS that TSMO uses during the winter season.
[2] TSMO is responsible for an additional ~20 DMS for the department.

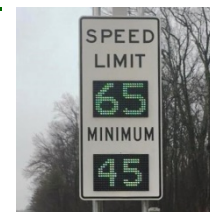| Road Weather Information System (RWIS)		
A RWIS collects and displays data from a network of pavement and atmospheric sensors to provide site-specific weather and pavement surface condition information.	25	27

Variable Speed Limit Sign (VSL)		
VSL are speed limits that change based on road, traffic, and weather conditions.	18	17

Motor Vehicle Detection System (MVDS)		
MVDS are sensors that collect speed and volume data.	19	19

Summary

	Current Month	2021 Total

Unplanned Incidents

	Total Unplanned Incidents	
	130	1,078

Operators log information about each unplanned incident including date/time, location, traffic impact, and duration.

Planned Incidents

	Total Planned Incidents	
	417	2,628

Operators log information about each planned incident including date/time, location, traffic impact, and duration.

Communication

	Total Calls	
	4,479	33,378

Operators log all incoming and outgoing control room communications, engaging various incident responders and stakeholders.

Work Zones Communication

	Total Construction Calls	
	2,202	14,182

Construction related activities or communication that's outside of planned incidents.

DMS Messages

	Total Messages	
	21,912	128,748

All changes to DMS are logged and reviewed.

Public Outreach

	Total NHTMC.com Webpage Users	
	1,161	11,450

Operators use Twitter and nhtmc.com to inform motorists about traffic events and other road related information.

Storm Desk Activations

	Total Storm Desk Activations	
	1	1

The TSMO Storm Desk is activated during storm events. The Storm Desk is utilized as a single point of contact to stakeholders.

Unplanned Incidents
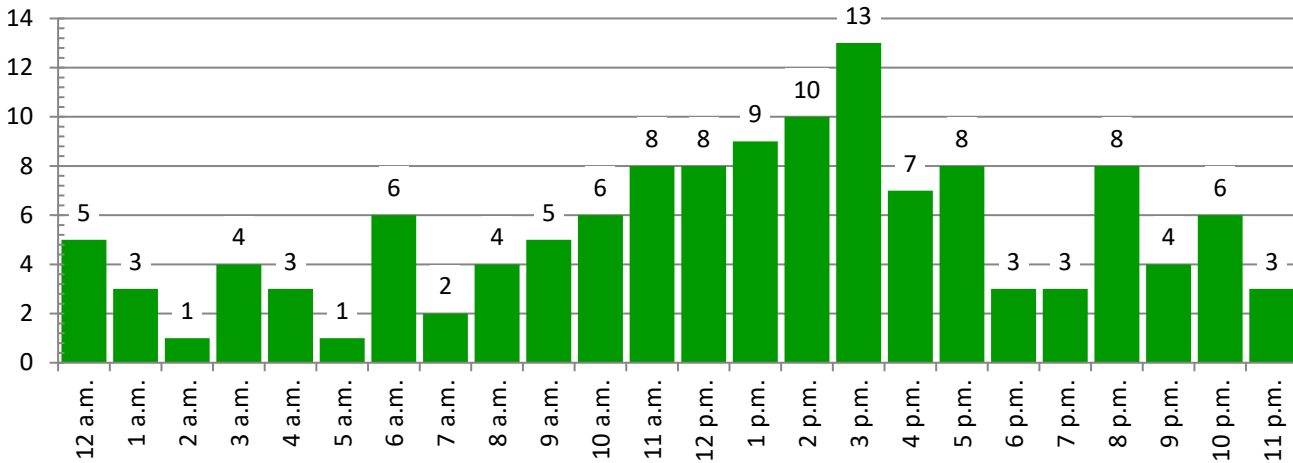
Increased staffing within the TMC is necessary during normal business hours to better facilitate daily operations while also managing unplanned incidents. Incidents are tracked by the time at which the operators are notified of the start of the event.
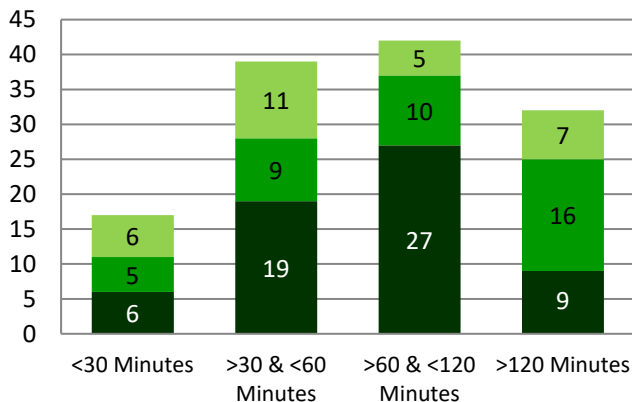
Current Month - Incidents by Type

42, 32%
4, 3%
84, 65%

- No Closure
- Partial Closure
- Full Closure
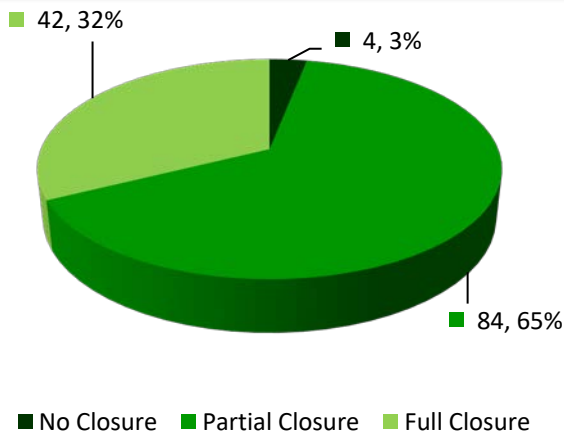
This graph shows the type of incident totals for the month.

Types of Incidents:
No Closure: No lane closures occurred during the incident.
Partial Closure: Only a part of the roadway was closed.
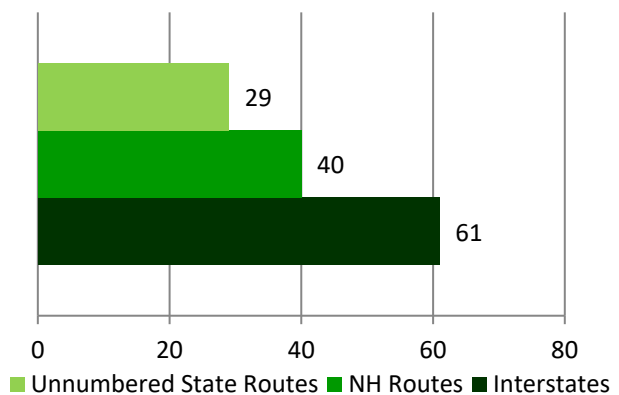**Full Closure**: All lanes were closed during the incident.

Current Month - Incident Duration
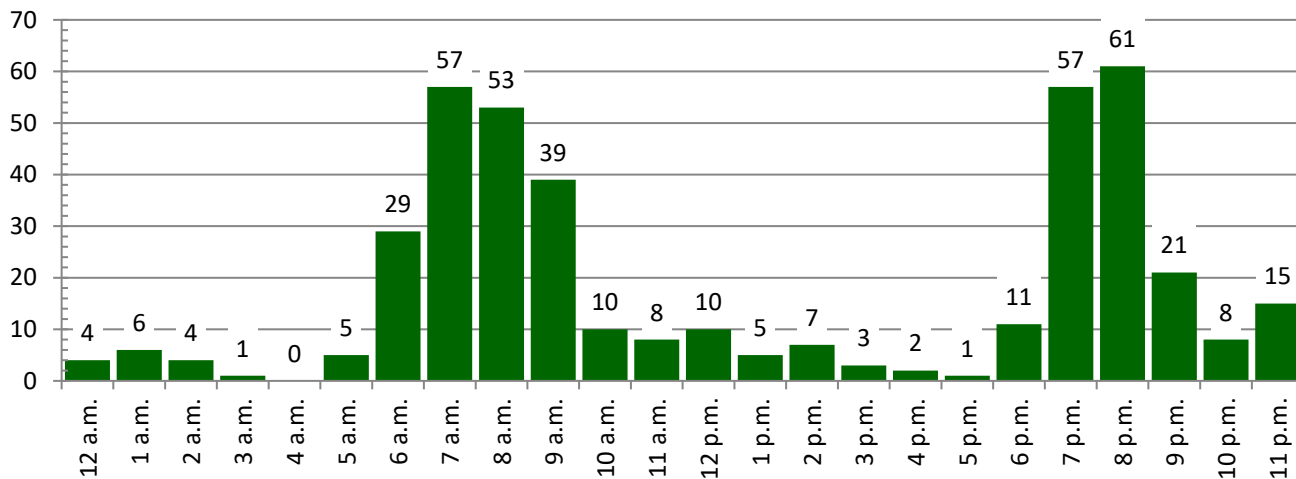
This graph shows the duration history of incidents.

Current Month - Incident by Road

This graph shows which type of roadway the incidents occurred on.

- Unnumbered State Routes
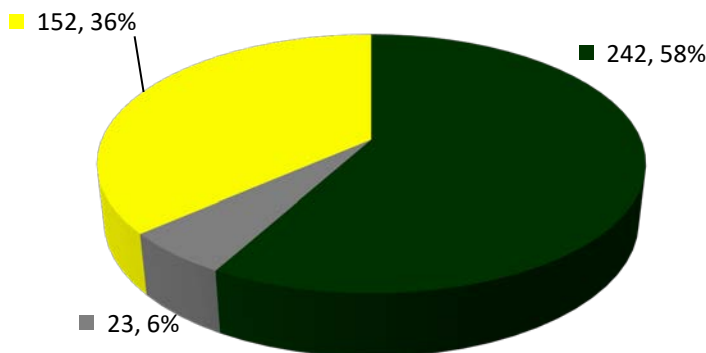- NH Routes
- Interstates

Planned Events

Additional staffing within the TMC is necessary during peak hours to meet the demands of daily planned operations. Planned Events are tracked by the time at which the operators are notified of the start of the event.

Current Month - Incidents by Type

152, 36%

242, 58%

23, 6%

Construction (Partial Closure) Construction (Full Closure)
Bridge Maintenance (Partial Closure) Bridge Maintenance (Full Closure)
Road Maintenance (Partial Closure) Road Maintenance (Full Closure)
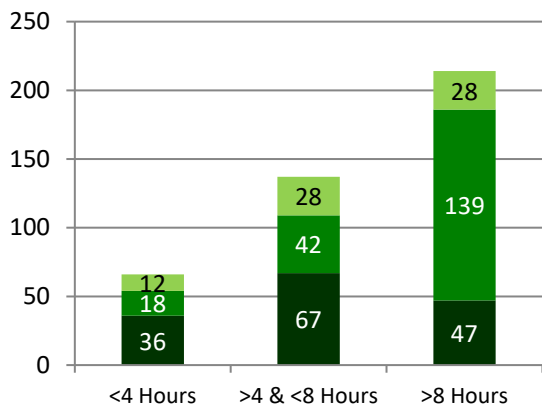Other

This graph shows the type of incident totals for the month.

Planned Events that impact the roadway, shoulder, or a ramp include events such as construction, bridge maintenance, or road maintenance. Each type could result in a partial closure or full closure.
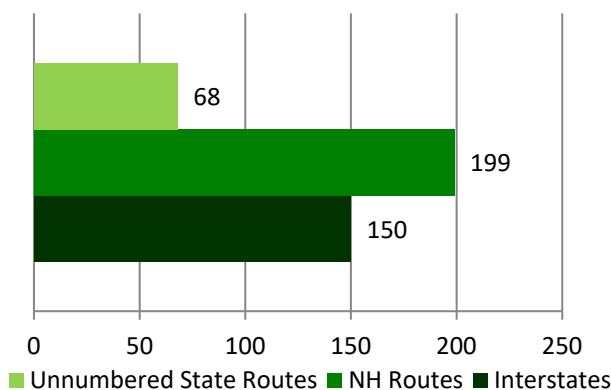
Current Month - Incident Duration

This graph shows the duration history of incidents.

Current Month - Incident by Road

This graph shows which type of roadway the incidents occurred on.

Unnumbered State Routes NH Routes Interstates

Communication

Current Month - Calls by Type

Dispatchers receive different types of calls throughout the day. They log the type of call and review this information monthly.

- State Police
- Local Police County
- Fire
- Hwy Maint TPK
- Bridge Maint
- Traffic
- Other
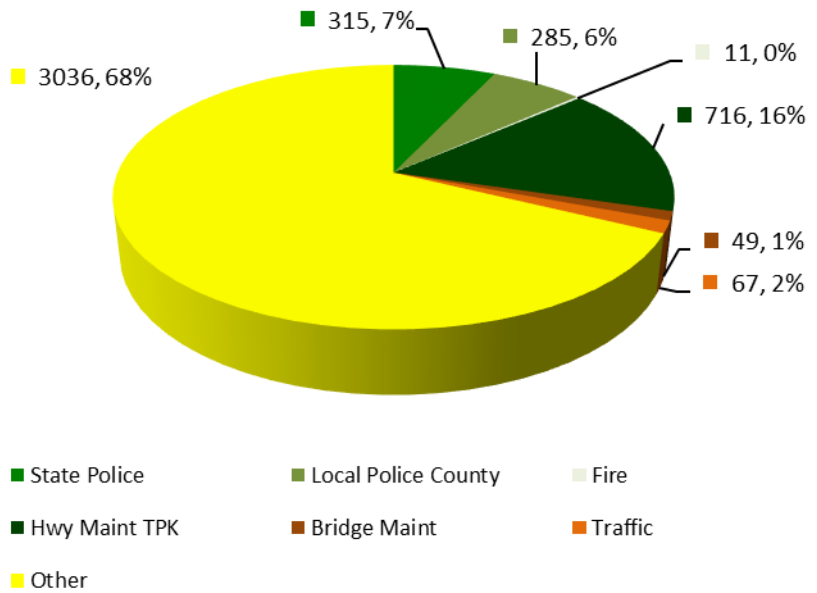
Log Entries by Type

This graph shows the amount of log entries by type that TMC Operators have entered into the Compass ATMS for the current month.

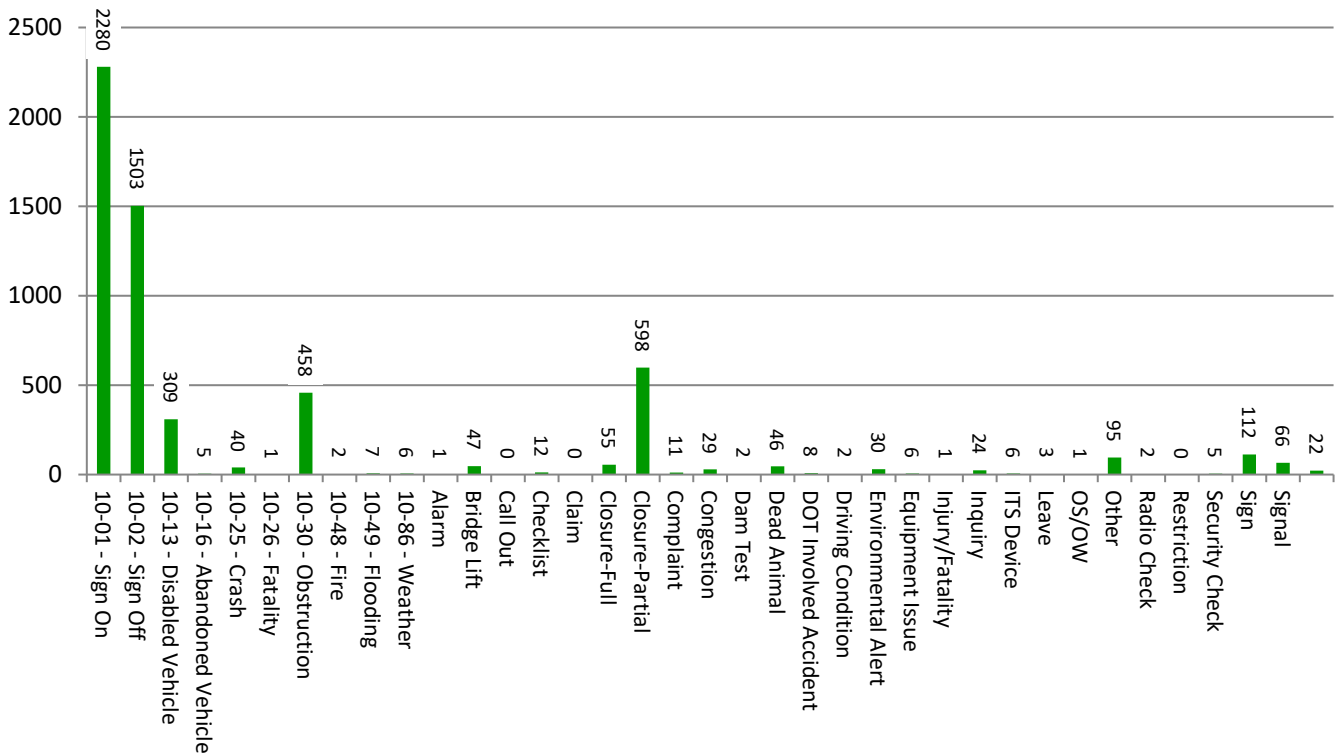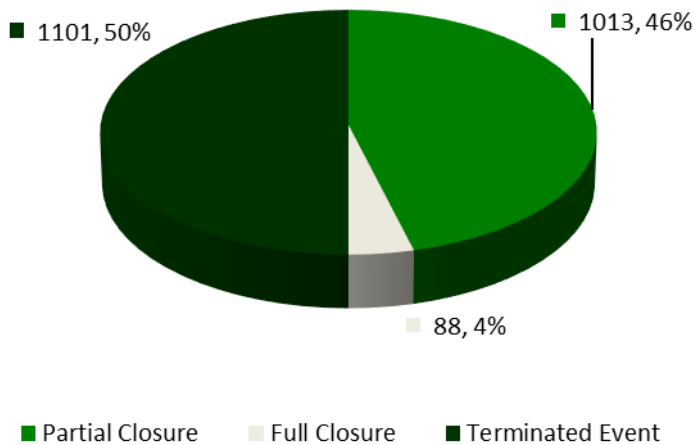# Work Zone Communication

Current Month – Construction Calls

This graph shows the different types of construction related calls that dispatchers received.

- 1101, 50%
- 1013, 46%
- 88, 4%

Legend:
- Partial Closure
- Full Closure
- Terminated Event

Incidents Occurring in Work Zones

This graph shows the total number of incidents reported on Work Zone Crash Reports from the Bureau of Construction.

- Past Month: 3
- Current Month: 12
- Current Year: 29

Legend: Past Month, Current Month, Current Year
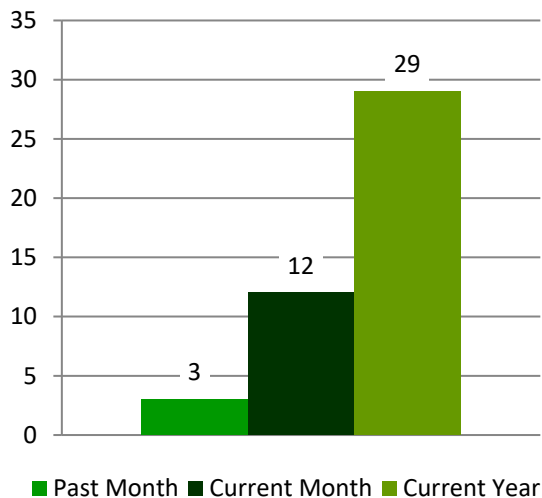
Incidents Occurring in Work Zones by Location
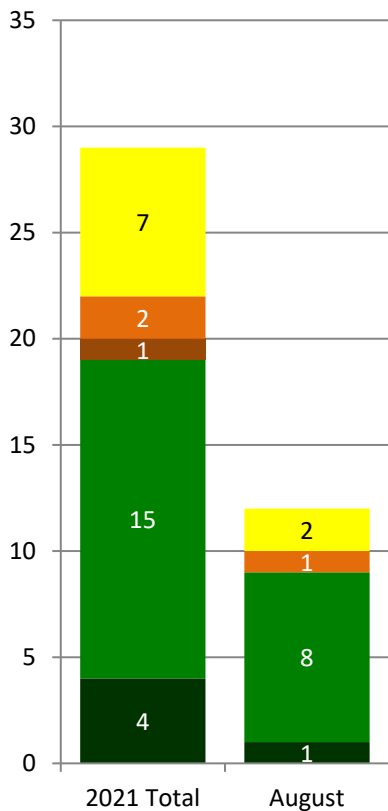
The graph to the left shows the incidents occurring in work zones by district for the current month and for the current year.

The map to the right shows the current year total for incidents occurring in work zones by district.

2021 Total:
- District 6: 4
- District 5: 15
- District 3: 1
- District 2: 2
- District 1: 7

August:
- District 6: 1
- District 5: 8
- District 2: 1
- District 1: 2

Legend:
- District 6
- District 5
- District 4
- District 3
- District 2
- District 1

Map values:
- 7
- 1
- 2
- 4
- 15
- 0
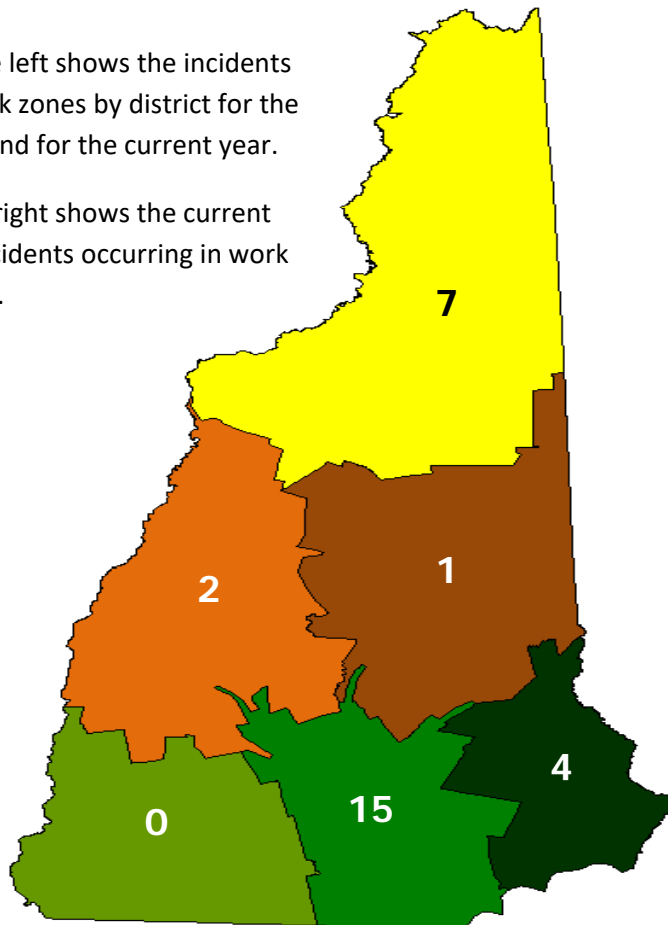
DMS Messages

Current Month - Messages by Type

1,602, 7%
436, 2%
86, 0%
388, 2%
495, 2%
208, 1%
634, 3%
18,063, 83%

- ■ Weather
- ■ Incidents
- ■ Construction
- ■ PSA
- ■ Congestion
- ■ Travel Time
- ■ Variable Speed Limit
- ■ Other
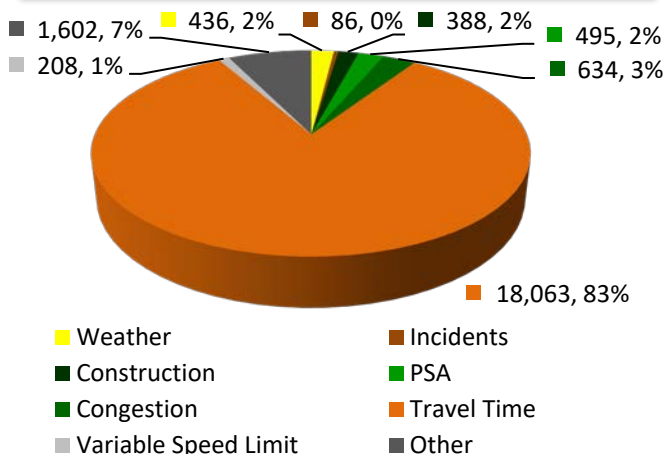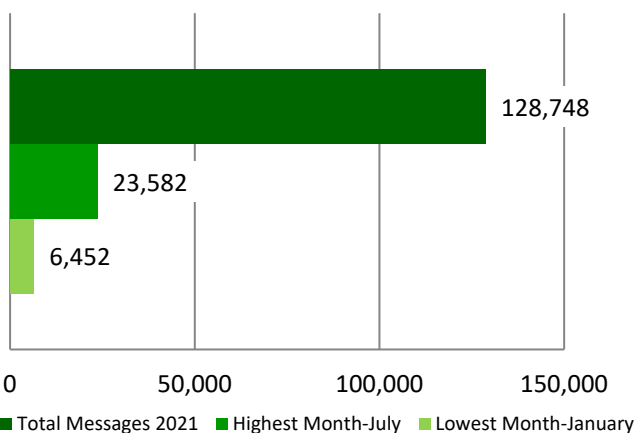
This graph shows the type of message that were relayed to the public by being displayed on the DMS.

Total Messages - 2021

128,748

23,582

6,452

0   50,000   100,000   150,000

■ Total Messages 2021 ■ Highest Month-July ■ Lowest Month-January

This graph shows the total messages that were posted to DMS for the year so far.

Current Month - Total Messages Posted by Board

Board	Count	Board	Count	Board	Count
101 E 52.8 FSV5	30	93 S 26.4 PSVT - SWZ - M02	47	FEE N 1.2 FSVT	46
101E 114.8 FSV6	422	93 S 27.4 PSVT - SWZ - M01	34	FEE N 18.8 FSVT	15
101E 130 FSA6	5	93 S 31.9 PSVT - SWZ - M07	90	FEE S 3.8 FSDT	29
101W 102.6 FSV5	25	93 S 5.2 VSL D5	15	FEE S 8.6 FSPT	13
101W 128 PSV6	23	93 S EX 9 On-Ramp - SWZ - M09	30	I-91 N VT 69.1 PSVT - SWZ - M06	12
293N 8.8 FSPT	887	93 SM 10.7 VSL SE 5	1	ST N 1.0 FSAT	268
293S 1.4 FSD5	39	93 SM 17.8 VSL SE 5	2	ST N 4.4 FSST	33
293S 4.8 FSDT	29	93 SM 2.2 VSL D 5	15	ST S 24.4 FSVT	434
393 W 1.9 PSV5	13	93 SM 5.2 VSL D5	15	ST S 3.4 FSDT	5164
4E 92.4 FSS6	7	93N 16.0 VSL D5	18	ST S 7.8 FSAT	3816
4E 98 FSA6	22	93N 16.0 VSL D5 Median	16	WA W 0.5 FSST	12
89 N 56.8 PSVT - SWZ - M01	433	93N 23.4 FSD5	965		
89 N 57.2 PSVT - SWZ - M02	59	93N 26.8 PSVT	35		
89 N 59.8 PSVT - SWZ - M03	177	93N 32.9 FSST	30		
89 S 58.7 PSVT - SWZ - M07	11	93N 36.2 FSVT	47		
89 S VT 0.9 PSVT - SWZ - M05	10	93N 57.6 FSS3	24		
89N 1.8 FSV5	201	93N 76.4 FSV3	22		
89N 18.4 FSV5	23	93N 82.6 FSV3	18		
89N 35.5 FSV2	18	93N 99.6 FSA3	40		
89N 54.9 FSS2	19	93S 117.6 FSA1	10		
89S 10.8 FSV5	403	93S 122.2 FSV1	1		
89S 3.4 FSV5	1257	93S 23.4 FSD5	205		
89S 55.0 PSV2	7	93S 27.8 FSDT	762		
91 VT S 70.6 PSVT - SWZ - M04	11	93S 30.3 PSVT	72		
93 N 0.5 FSDT	208	93S 32.4 FSVT	26		
93 N 12.4 VSL SE 5	3	93S 36.5 FSST	21		
93 N 2.35 VSL D 5	16	93S 39.0 FSV5	56		
93 N 3.8 VSL D5	16	93S 43.3 PSV5	22		
93 N 6.6 VSL D5	17	93S 48.0 FSV5	47		
93 N 7.5 FSD5	192	93S 68.8 FSV3	27		
93 N EX 9 On-Ramp - SWZ - M08	32	93S 7.2 FSD5	156		
93 NM 12.4 VSL SE 5	4	93S 85.4 FSV3	23		
93 NM 2.35 VSL D 5	15	95N 0.4 FSVT	972		
93 NM 3.8 VSL D5	16	95N 13.0 FSVT	58		
93 NM 6.6 VSL D5	18	95N 14.8 FSDT	87		
93 S 17.8 VSL SE 5	5	95N 3.0 FSDT	1104		
93 S 2.2 VSL D 5	16	95N 4.8 PSVT	82		
93 S 22.6 PSVT - SWZ - M06	59	95S 15.4 FSDT	1160		
93 S 23.3 PSVT - SWZ - M05	40	95S 3.4 FSPT	37		
93 S 25.1 PSVT - SWZ - M04	21	95S 7.2 PSVT	73		
93 S 25.6 PSVT - SWZ - M03	262	95S 7.6 FSDT	534		

Public Outreach

1,161 Users (Current Month) - NHTMC Website (www.nhtmc.com)

New/Returning Visitors

■ New Visitors ■ Returning Visitors
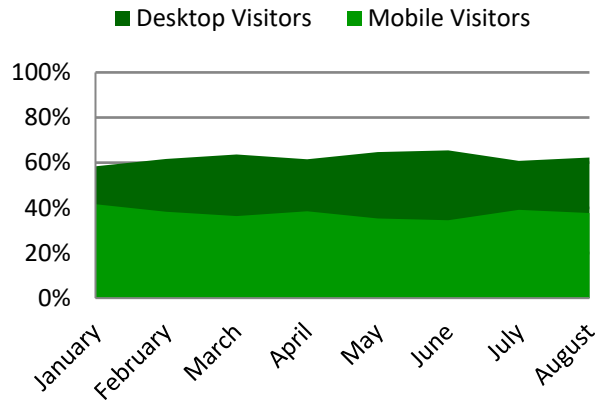
This graph shows the ratio of new/ returning users that visited the NHTMC website. A new visitor is a user accessing the website for the first time. A returning visitor is a user who has accessed the website earlier.

Desktop/Mobile Visitors

■ Desktop Visitors ■ Mobile Visitors

This graph shows the ratio of desktop/mobile visitors that accessed the NHTMC website.

New Hampshire DOT Spaulding | New Hampshire DOT I-293 | New Hampshire DOT I-95 | New Hampshire DOT I-89 | New Hampshire DOT Everett | New Hampshire DOT I-93 | New Hampshire DOT NH 101 | New Hampshire DOT NH/US Routes

40,452 Total Twitter Followers