



Bureau of Transportation Systems Management & Operations (TSMO)

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***NH Department of Transportation's Mission***

*Transportation excellence enhancing the quality of life in New Hampshire.*

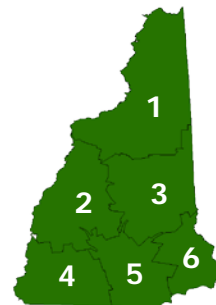
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***Transportation Management Center's Mission***

*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.



## ITS Equipment List

### Closed-Circuit Television (CCTV) Cameras

2016 Total

2017 Total

CCTV cameras are used to pinpoint and monitor traffic events so that information can be disseminated quickly and accurately.

91

96



### Dynamic Message Signs (DMS)

DMS aid in sending messages to motorists to inform them of traffic events that may be impacting their route ahead.

52

52

16<sup>1</sup>

16<sup>1</sup>

20<sup>2</sup>

20<sup>2</sup>



<sup>1</sup> Additional DMS that TSMO uses during the winter season.

<sup>2</sup> 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.

24

24

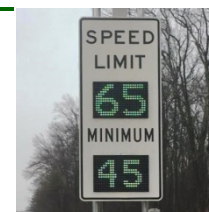


### Variable Speed Limit Sign (VSL)

VSL are speed limits that change based on road, traffic, and weather conditions.

19

20



### Motor Vehicle Detector Sensors (MVDS)

MVDS are sensors that collect speed and volume data.

5

5



# Summary

<b>Unplanned Incidents</b>	<b>Current Month</b>	<b>2017 Total</b>
Operators log information about each unplanned incident including date/time, location, traffic impact, and duration.	145	1,673

<b>Planned Incidents</b>	<b>Total Planned Incidents</b>
Operators log information about each planned incident including date/time, location, traffic impact, and duration.	260 2,996

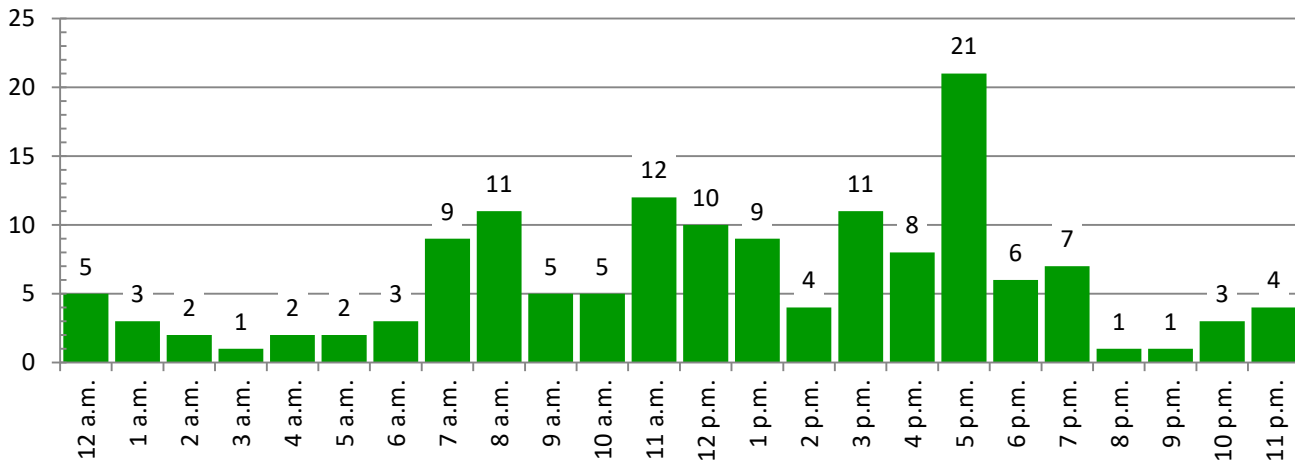
<b>Communication</b>	<b>Total Calls</b>
Operators log all incoming and outgoing control room communications, engaging various incident responders and stakeholders.	1,965 25,495

<b>Work Zones Communication</b>	<b>Total Construction Calls</b>
Construction related activities or communication that's outside of planned incidents.	420 5,679

<b>DMS Messages</b>	<b>Total Messages</b>
All changes to DMS are logged and reviewed.	12,234 142,878

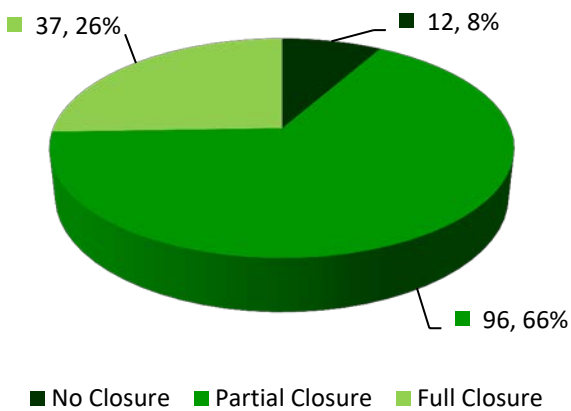
<b>Public Outreach</b>	<b>Total NHTMC.com Webpage Users</b>
Operators use Twitter and nhtmc.com to inform motorists about traffic events and other road related information.	2,386 27,080

# 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



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

### Types of Incidents:

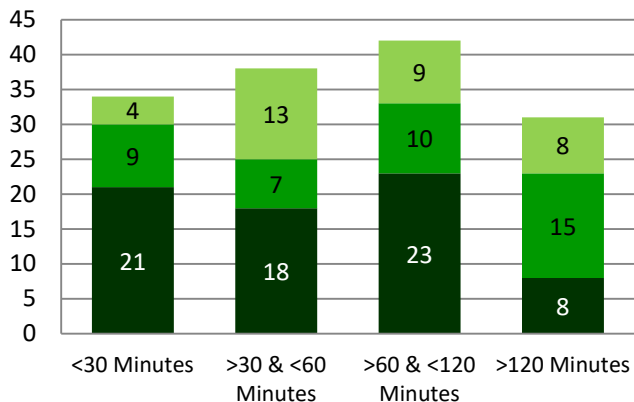
**No Closure:** No lane closures occurred during the incident.

**Partial Closure:** Only a part of the roadway was closed.

**Full Closure:** All lanes were closed during the incident.

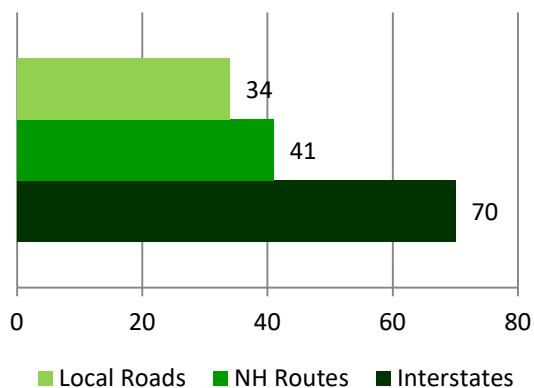
## Current Month - Incident Duration

This graph shows the duration history of incidents.

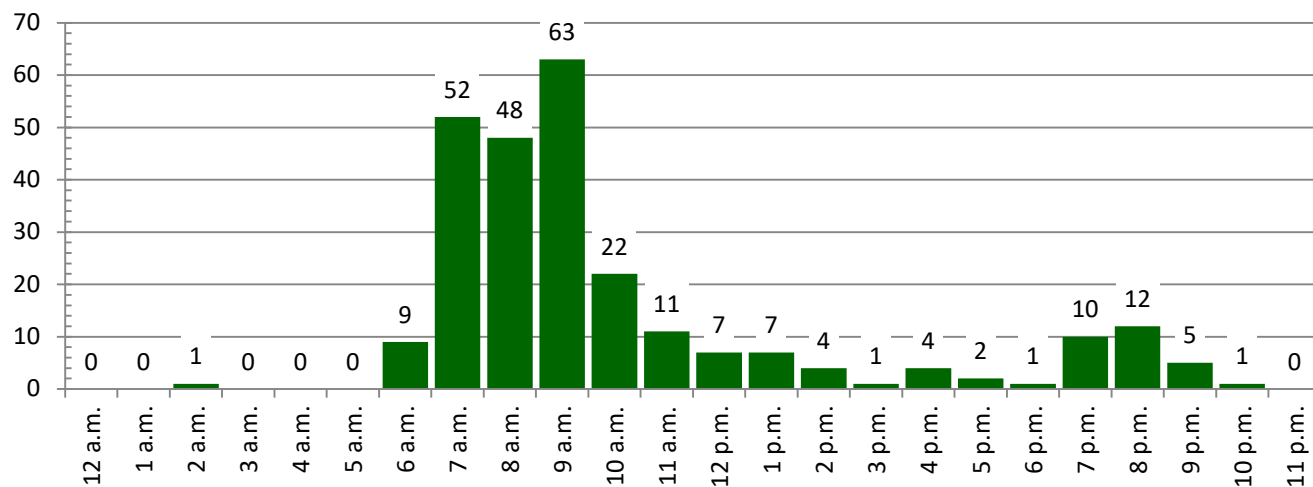


## Current Month - Incident by Road

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

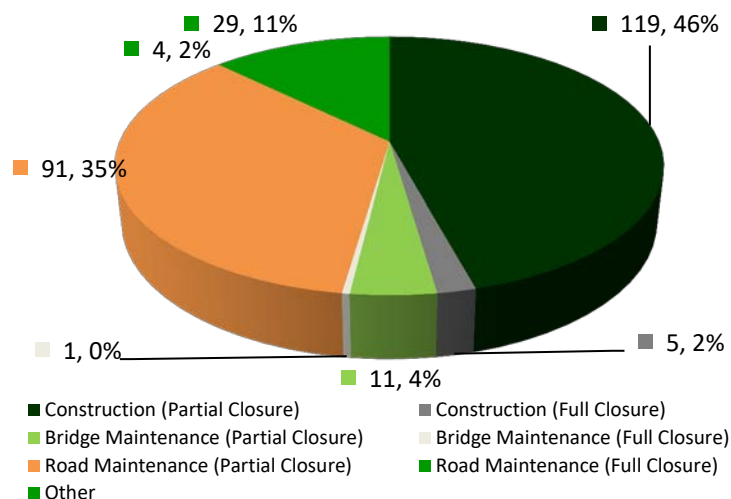


# Planned Events



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

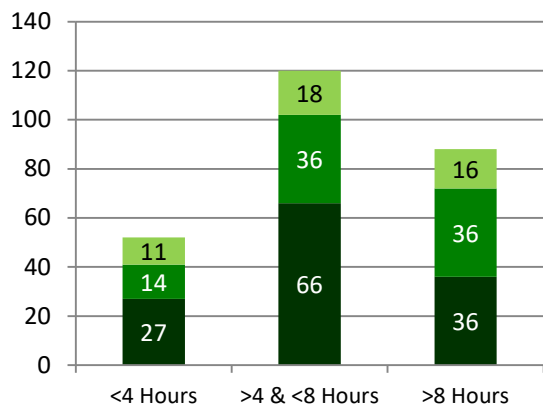


This graph shows the type of incident totals for the month.

Planned Events that impact the roadway, shoulder, or a ramp include events such as construction, bridge maintenance, or road maintenance. Each type will result in a partial closure or full closure.

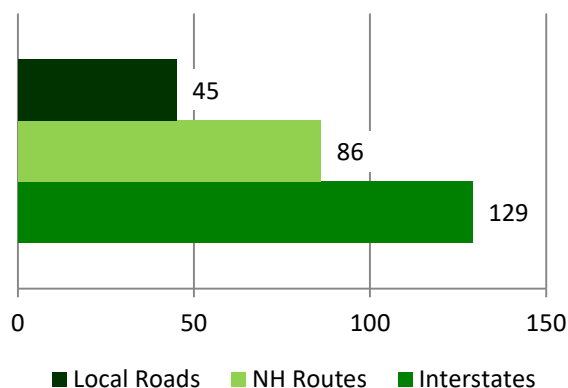
## Current Month - Incident Duration

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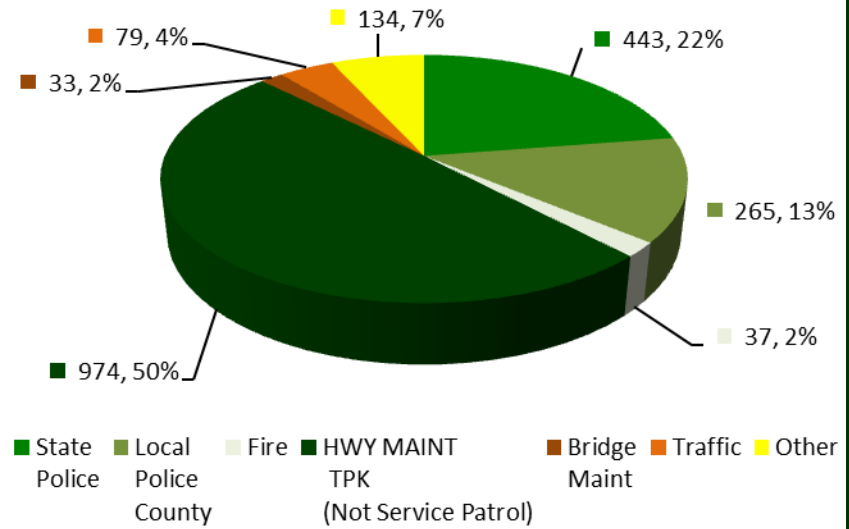
## Current Month - Incident by Road

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



## Current Month - Calls by Type

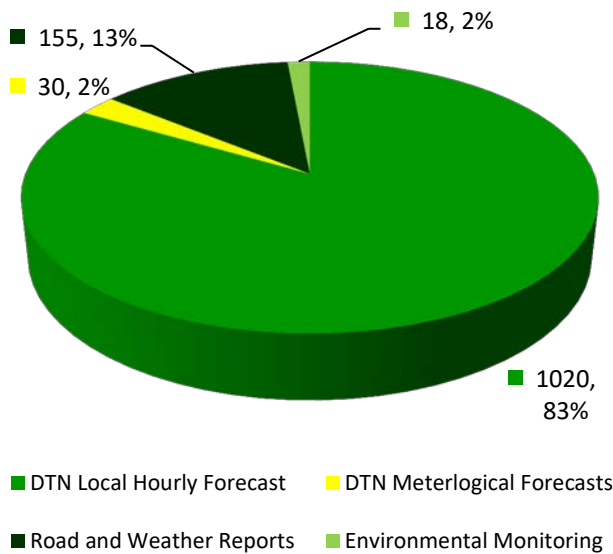
Dispatchers receive different types of calls throughout the day. They log the type of call and review this information monthly.



## Disseminated Weather Related Information

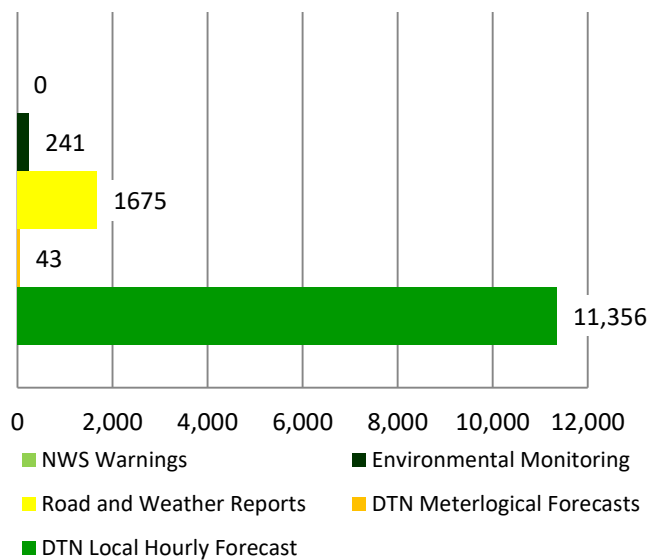
### Current Month - By Type

This graph shows the type of weather related information that was disseminated to various other agencies.



### 2017 Totals

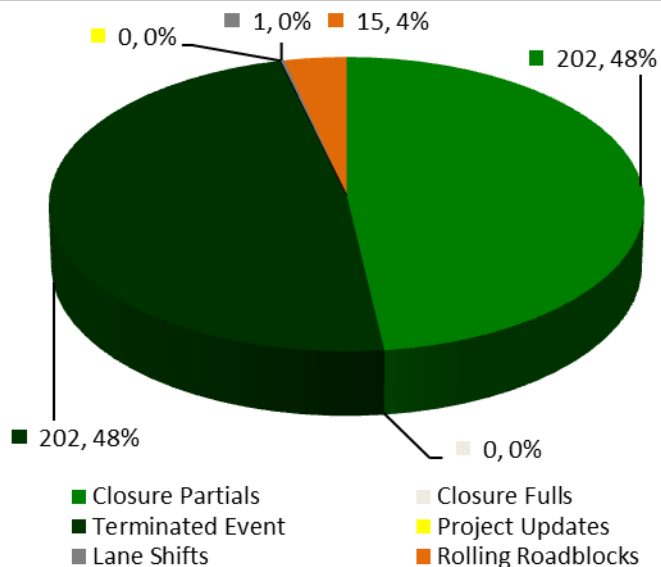
This graph shows the total weather related information that was disseminated for the year so far.



# Work Zone Communication

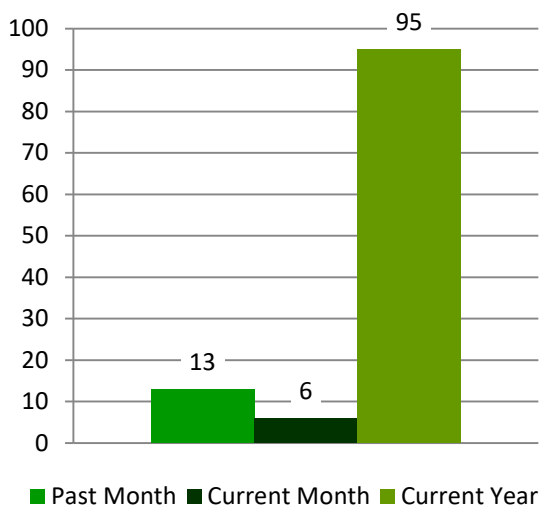
## Current Month – Construction Calls

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

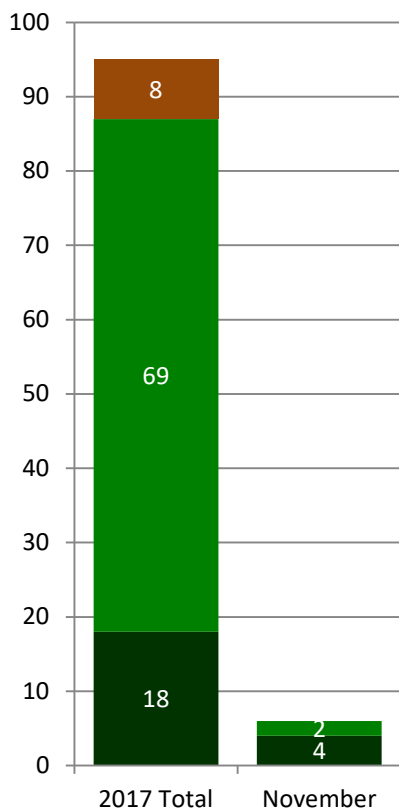


## Incidents Occurring in Work Zones

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

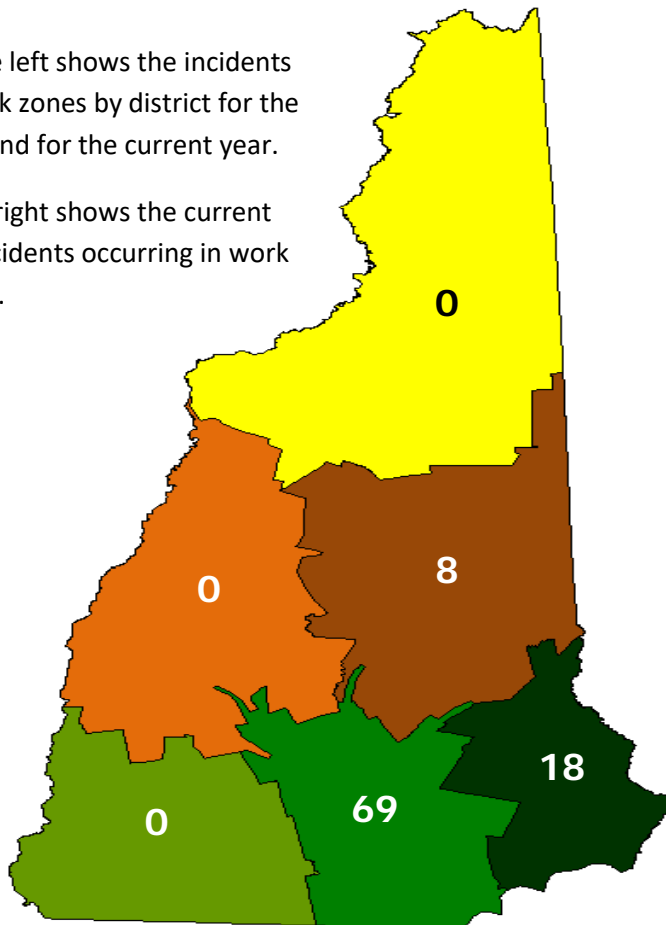


## Incidents Occurring in Work Zones by Location



The graph to the left shows the incidents occurring in work zones by district for the current month and for the current year.

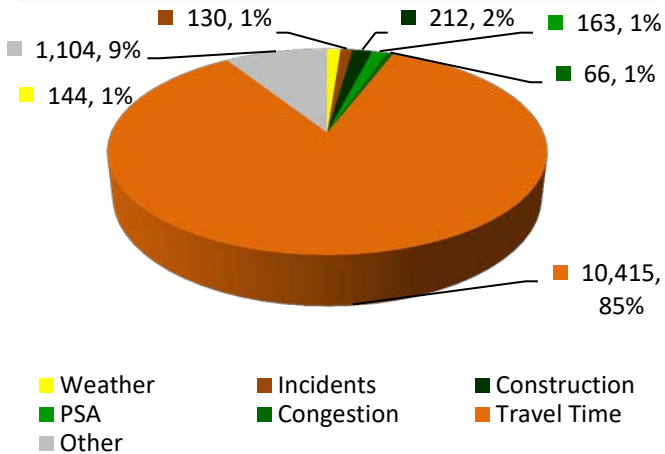
The map to the right shows the current year total for incidents occurring in work zones by district.



■ District 6 
 ■ District 5 
 ■ District 4  
■ District 3 
 ■ District 2 
 ■ District 1

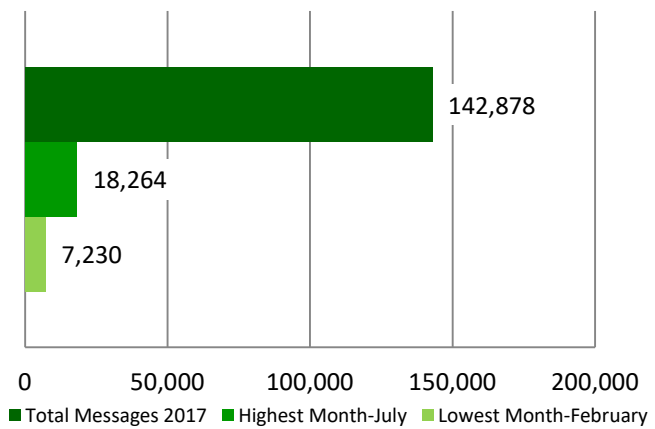
# DMS Messages

## Current Month - Messages by Type



This graph shows the type of message that was relayed to the public by being displayed on the dynamic message sign (DMS).

## Total Messages - 2017



This graph shows the total messages that were posted to DMS for the year so far. It also shows the months with the lowest and highest messages that were posted.

## Current Month - Total Messages Posted by Board

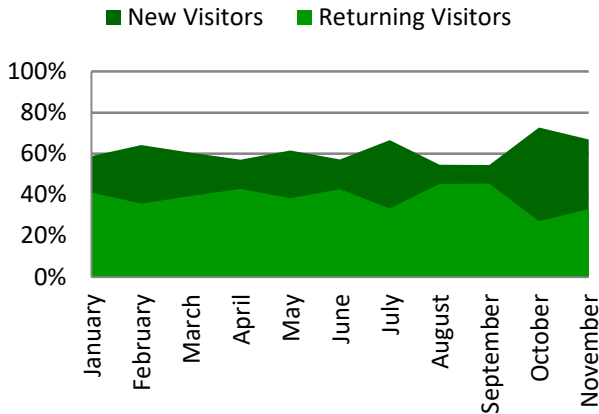
101 W 100.5 VSL D 5	28	93 N 6.6 VSL D5	23	93S 7.2 FSD5	183
101 WM 100.5 VSL D 5	28	93 NM 2.35 VSL D 5	29	93S 85.4 FSV3	42
101E 102 PSP5	3	93 NM 3.8 VSL D5	31	95N 0.4 FSVT	161
101E 114.8 FSV6	138	93 NM 6.6 VSL D5	24	95N 13.0 FSVT	17
101E 130 FSA6	194	93 S 19.8 VSL D 5	23	95N 14.8 FSDT	19
101E 53.4 FSV5	23	93 S 2.2 VSL D 5	29	95N 3.0 FSDT	133
101W 102.6 FSV5	18	93 S 5.2 VSL D5	31	95S 15.4 FSDT	147
101W 115PSP5	1	93 SM 19.8 VSL D 5	29	95S 3.4 FSPT	4
101W 128 PSV6	7	93 SM 2.2 VSL D 5	29	95S 7.6 FSDT	166
293 S 1.4 VSL D 5	29	93 SM 5.2 VSL D5	31	FEE N 1.2 FSVT	781
293N 8.8 FSPT	329	93N 0.3 FSD5	787	FEE N 18.8 FSVT	22
293S 1.4 FSD5	89	93N 16.0 VSL D5	29	FEE S 8.6 FSPT	4
293S 4.8 FSVT	15	93N 23.4 FSD5	462	ST N 1.0 FSAT	525
4E 98 FSA6	13	93N 32.4 FSVT	43	ST S 11.6 FSA6	188
89N 1.8 FSV5	152	93N 36.2 FSVT	36	ST S 24.4 FSVT	4
89N 18.4 FSV5	218	93N 43.8 PSP5	10	ST S 3.4 FSDT	2,213
89N 28.8 PSV2	12	93N 57.6 FSV3	39	ST S 7.8 FSAT	1,552
89N 35.5 FSV2	35	93N 7.2 FSD5	585	WA W 0.5 FSST	1
89N 43.8 PSV2	11	93N 82.6 FSV3	42		
89N 55.0 PSV2 - Sensor	6	93N 99.6 FSA3	12		
89S 10.8 FSV5	151	93S 117.6 FSA1	7		
89S 3.4 FSV5	436	93S 122.2 FSV1	19		
89S 31.4 PSP5	1	93S 23.4 FSD5	552		
89S 42.6 PSP2	5	93S 27.8 FSDT	1469		
89S 55.0 PSV2	22	93S 32.4 FSVT	21		
89S 57.5 PSV2 - Sensor	8	93S 39.0 FSV5	34		
93 N 0.3 VSL D 5	29	93S 48.0 FSV5	30		
93 N 3.8 VSL D5	31	93S 68.8 FSV3	37		



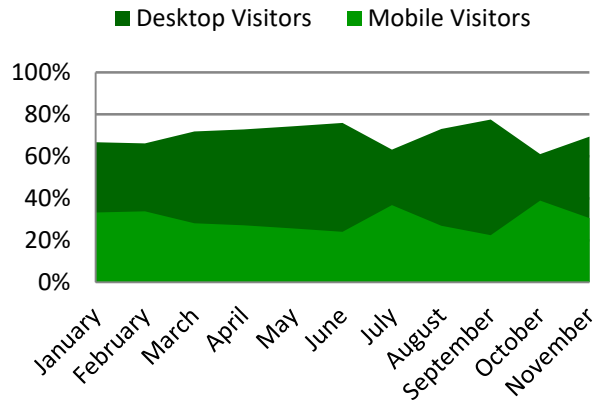
# Public Outreach

## Current Month - NHTMC Website

### New/Returning Visitors



### Desktop/Mobile 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.

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



32,188 Twitter Followers

### Who is Re-Tweeting Real Time Traffic Information?

- |   |  |   |  |
|---|--|---|--|
| <ul style="list-style-type: none"> <li>The Highway Monitor NH 93</li> <li>The Highway Monitor MA90</li> <li>The Highway Monitor MA95</li> <li>193NH Traffic</li> <li>Hey Did You Hear</li> <li>Safe Roads Alliance</li> <li>Right Now I/O Feed</li> <li>UEA Trip Notification</li> <li>National Emergency Alerts NE</li> <li>NewHampshireProblems</li> <li>WMUR</li> <li>Josh Judge WMUR</li> <li>Sean McDonald WMUR</li> <li>Rosa Valentin WMUR</li> <li>Jennifer Gannon WMUR</li> <li>Melinda Davenport WMUR</li> <li>Jim Foley WMUR</li> </ul> | <ul style="list-style-type: none"> <li>New Hampshire 1 News</li> <li>Megan Carpenter Fox 44/ABC 22</li> <li>Rose Spillman YCN News</li> <li>SCG-TV 23</li> <li>Salem Community TV</li> <li>WZID</li> <li>Susan Roantree WZID</li> <li>93.3 The WOLF</li> <li>WOKQ975</li> <li>99.1 Frank FM</li> <li>1490 WEMJ-AM</li> <li>Radio Nashua CC</li> <li>OC Radio Portsmouth</li> <li>Union Leader.com</li> <li>Seacoastonline.com</li> <li>Londonderry News</li> <li>Tweet NH</li> </ul> | <ul style="list-style-type: none"> <li>Laconia NH Police</li> <li>Town of Peterborough</li> <li>Boston Special Officer</li> <li>Granite State Police</li> <li>The Mall at Fox Run</li> <li>Manchester Schools SAU #37</li> <li>Concord NH Patch</li> <li>Record Enterprise</li> <li>Veterans Count</li> <li>Red Cross NH</li> <li>New Hampshire AFL-CIO</li> <li>Hampton Inn Concord</li> <li>NHGCD</li> <li>NH Finest Market</li> <li>Tweet Vermont</li> <li>Adopt a Highway</li> <li>Rockingham Alerts</li> </ul> | <ul style="list-style-type: none"> <li>Vista Vacations</li> <li>WeeksActLegacyTrail</li> <li>Motor City</li> <li>Lawrence Ma.</li> <li>City of Dover NH</li> <li>Middleton NH Police</li> <li>Valley News</li> <li>Commuter Boston</li> <li>EastWestExpress</li> <li>Transport NH</li> <li>NH Economy</li> <li>NHFamilyLiving.com</li> <li>NH Potholes</li> <li>Southern NH Emergency</li> <li>Alerts Live Incidents US</li> <li>J4 Traffic</li> <li>Action Page System</li> </ul> |
|---|--|---|--|