



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.*

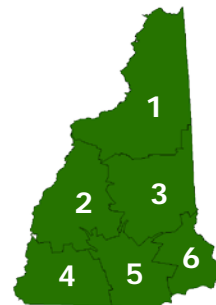
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***Transportation Management Center's Mission***

*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
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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.

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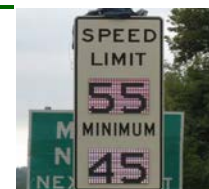


### Variable Speed Limit Sign (VSL)

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

19

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### Motor Vehicle Detector Sensors (MVDS)

MVDS are sensors that collect speed and volume data.

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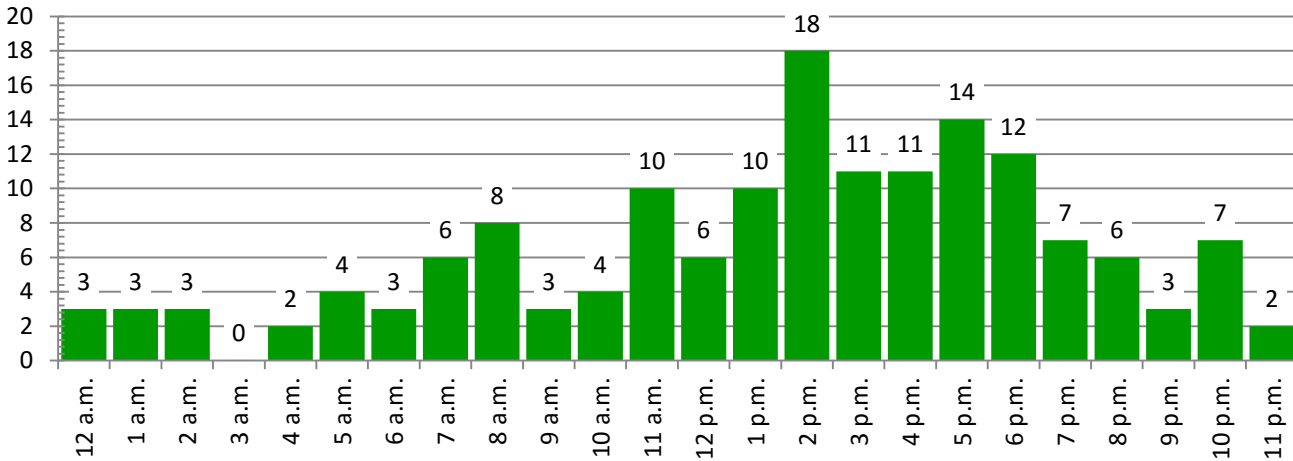
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# Summary

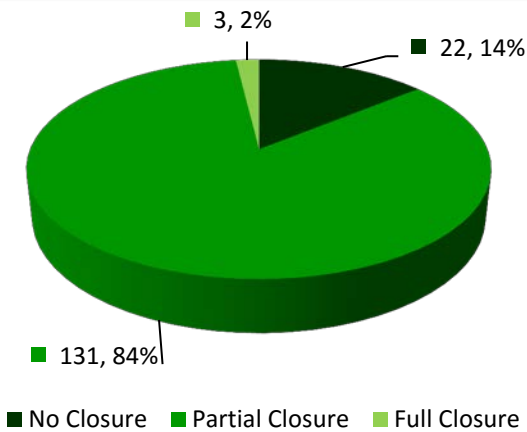
	Current Month	2017 Total
<b>Unplanned Incidents</b>	<b>Total Incidents</b>	
Operators log information about each unplanned incident including date/time, location, traffic impact, and duration.	156	1,095
<b>Planned Incidents</b>	<b>Total Planned Incidents</b>	
Operators log information about each planned incident including date/time, location, traffic impact, and duration.	369	1,555
<b>Communication</b>	<b>Total Calls</b>	
Operators log all incoming and outgoing control room communications, engaging various incident responders and stakeholders.	913	17,709
<b>Work Zones Communication</b>	<b>Total Construction Calls</b>	
Construction related activities or communication that's outside of planned incidents.	805	3,239
<b>DMS Messages</b>	<b>Total Messages</b>	
All changes to DMS are logged and reviewed.	18,264	84,864
<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.	2,632	18,539

# 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:

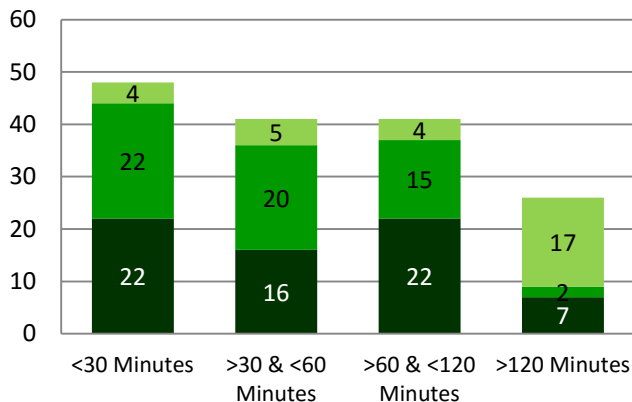
**No Closure:** No lane closures occurred during the incident.

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

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

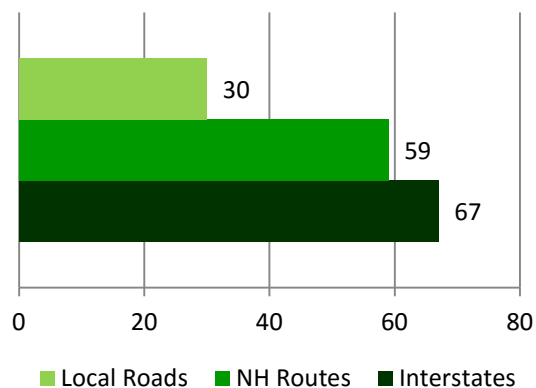
## Current Month - Incident Duration

This graph shows the duration history of incidents.

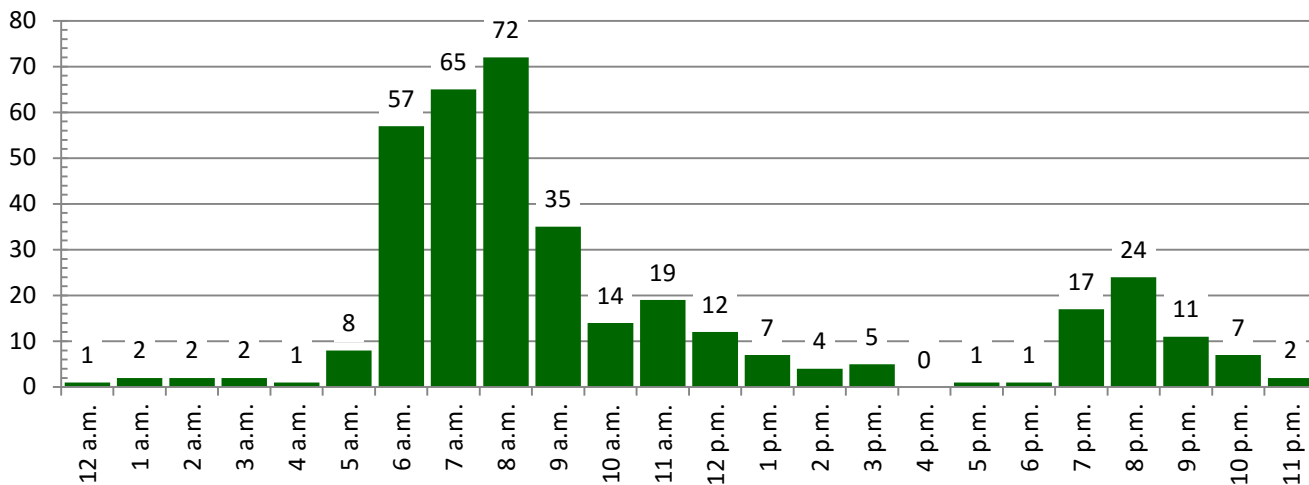


## Current Month - Incident by Road

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

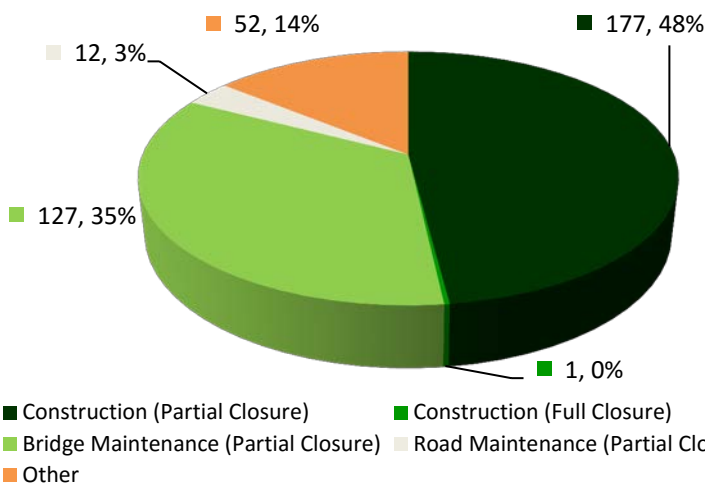


# Planned Events



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

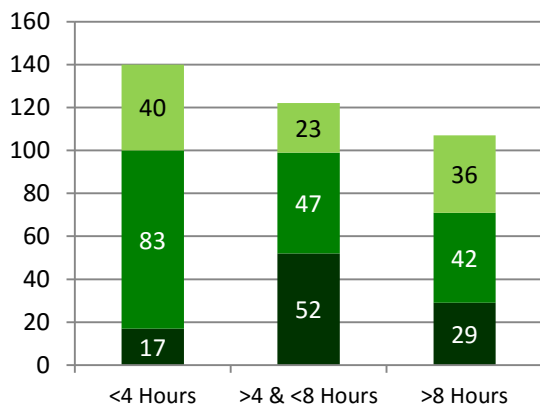


This graph shows the type of incident totals for the month.

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.

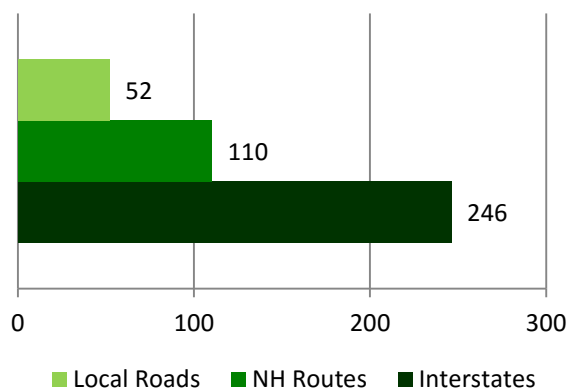
## Current Month - Incident Duration

This graph shows the duration history of incidents.



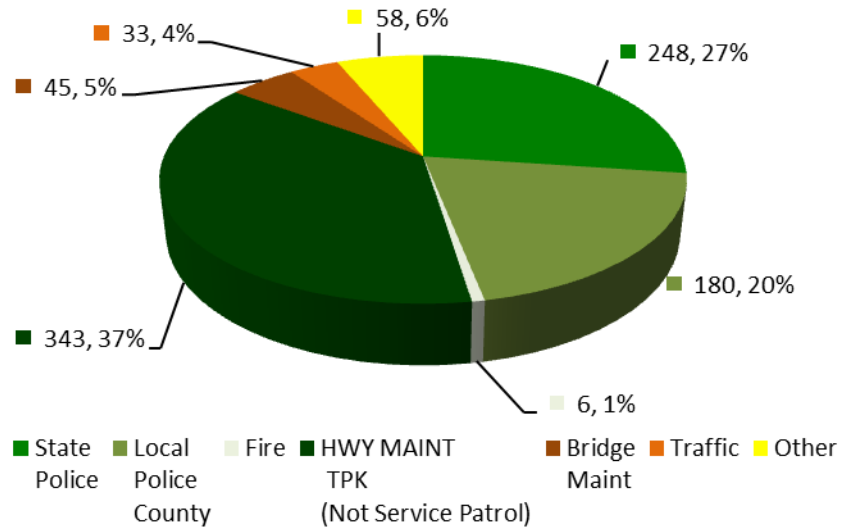
## Current Month - Incident by Road

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



## Current Month - Calls by Type

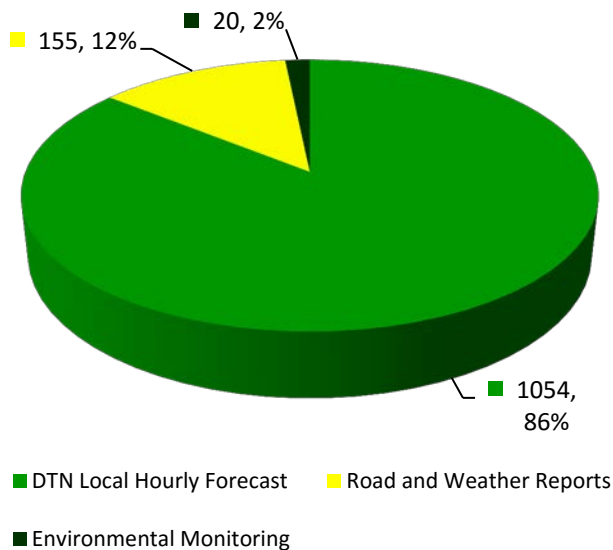
Dispatchers receive different types of calls throughout the day. They log the type of call and review this information monthly.



## Disseminated Weather Related Information

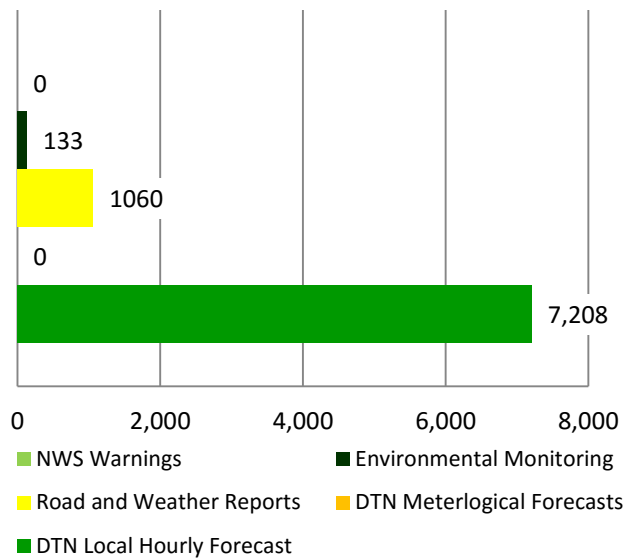
### Current Month - By Type

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



### 2017 Totals

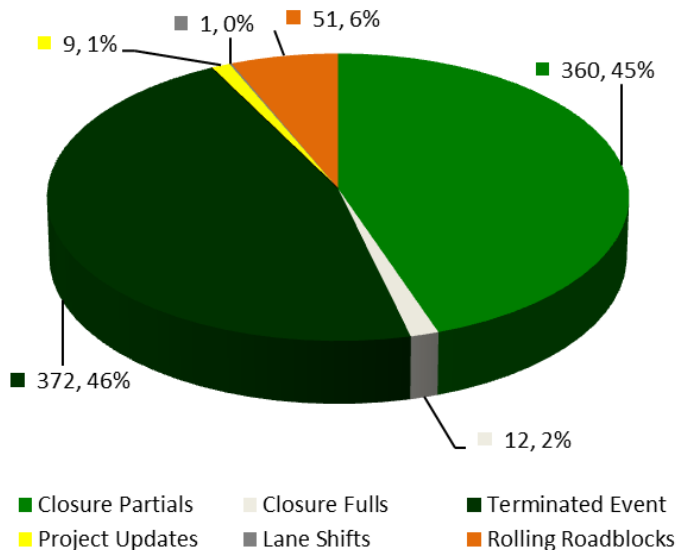
This graph shows the total weather related information that was disseminated for the year so far.



# Work Zone Communication

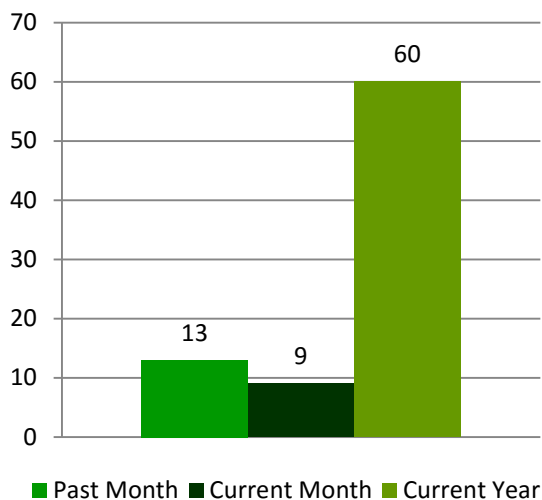
## Current Month – Construction Calls

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

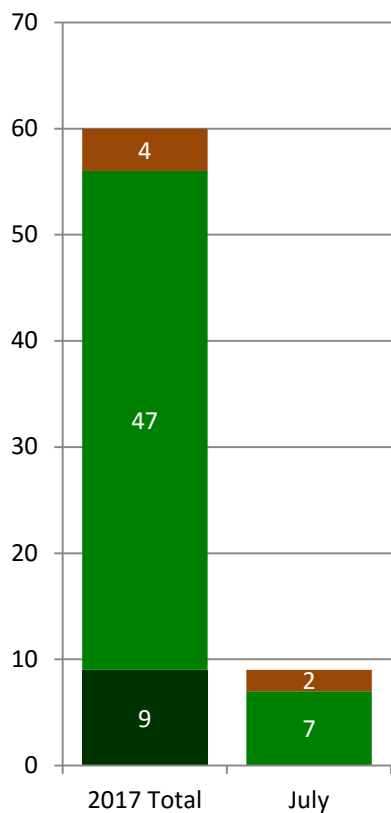


## Incidents Occurring in Work Zones

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

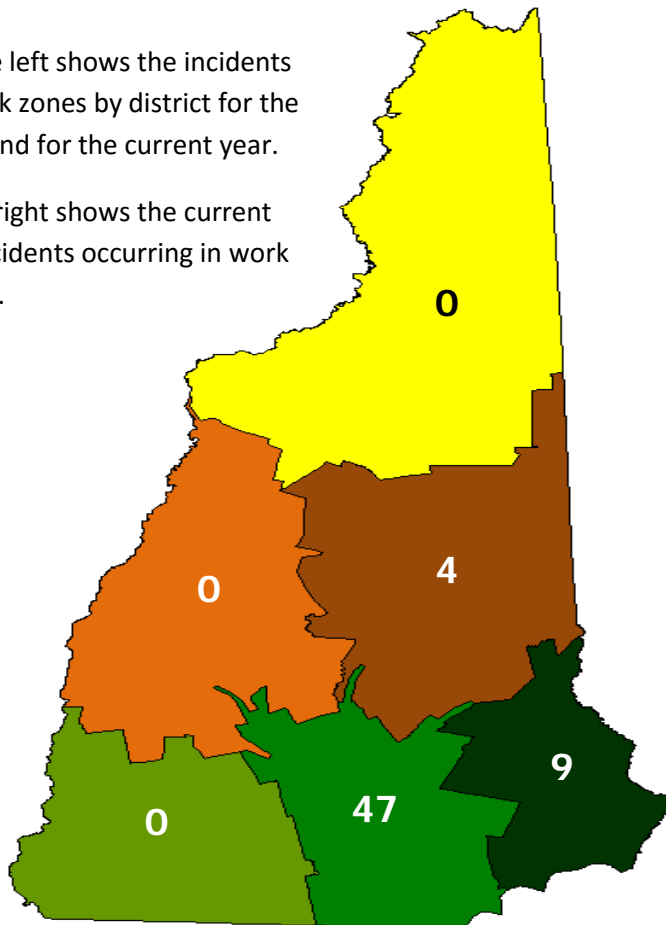


## Incidents Occurring in Work Zones by Location



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

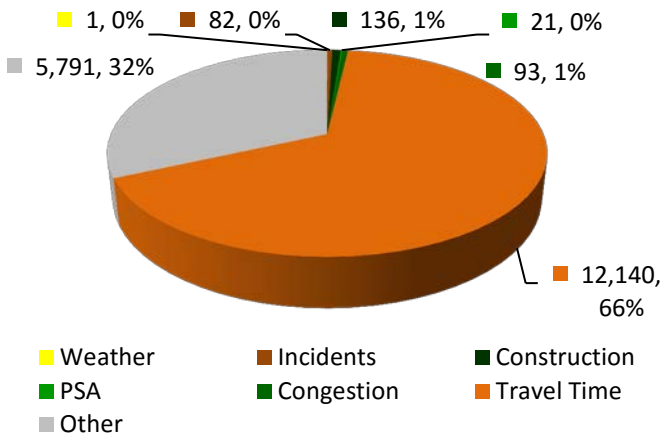
The map to the right shows the current year total for incidents occurring in work zones by district.



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

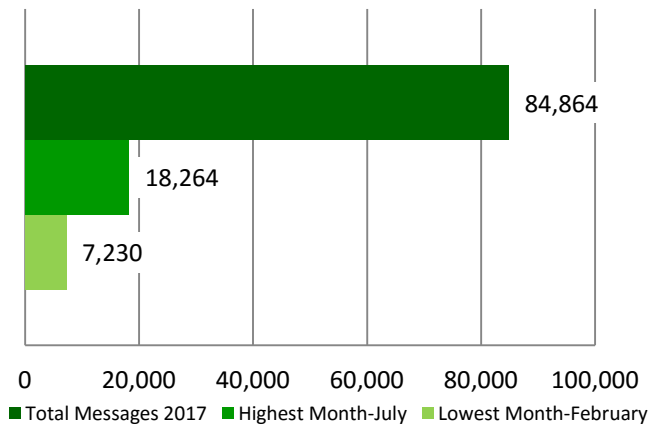
# DMS Messages

## 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.

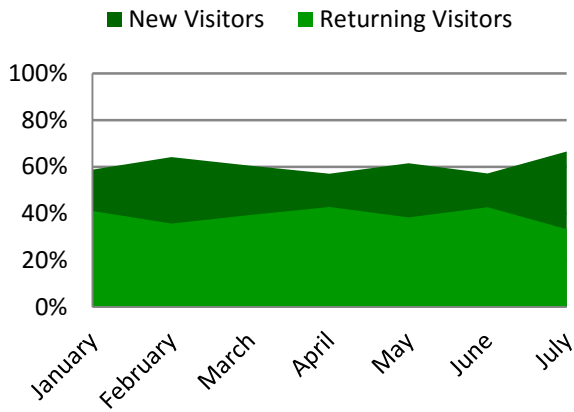
## Current Month - Total Messages Posted by Board

101 W 100.5 VSL D 5	41	93 N 3.8 VSL D5	41	93S 32.4 FSVT	16
101 WM 100.5 VSL D 5	41	93 N 6.6 VSL D5	35	93S 36.0 PSVT	1
101E 102 PSP5	1	93 NM 2.35 VSL D 5	41	93S 39.0 FSV5	16
101E 114.8 FSV6	127	93 NM 3.8 VSL D5	41	93S 48.0 FSV5	26
101E 130 FSA6	1,015	93 NM 6.6 VSL D5	35	93S 57.6 PSP5	1
101E 53.4 FSV5	5	93 S 19.8 VSL D 5	47	93S 68.8 FSV3	17
101W 102.6 FSV5	10	93 S 2.2 VSL D 5	41	93S 7.2 FSD5	191
101W 115PSP5	1	93 S 5.2 VSL D5	41	93S 85.4 FSV3	5
101W 128 PSV6	5	93 SM 19.8 VSL D 5	43	95N 0.4 FSVT	709
293 S 1.4 VSL D 5	41	93 SM 2.2 VSL D 5	41	95N 10.6 FSVT	1
293N 8.8 FSPT	494	93 SM 5.2 VSL D5	41	95N 13.0 FSVT	23
293S 1.4 FSD5	84	93N 0.3 FSD5	1,270	95N 14.8 FSDT	38
293S 4.8 FSVT	9	93N 16.0 VSL D5	41	95N 3.0 FSDT	634
4E 98 FSA6	13	93N 16.0 VSL D5 Median	41	95S 15.4 FSDT	344
89N 1.8 FSV5	168	93N 23.4 FSD5	656	95S 3.4 FSPT	5
89N 18.4 FSV5	229	93N 32.4 FSVT	45	95S 7.6 FSDT	214
89N 28.8 PSV2	1	93N 36.2 FSVT	28	FEE N 1.2 FSVT	815
89N 35.5 FSV2	3	93N 43.8 PSP5	1	FEE N 16.2 PSVT	1
89N 43.8 PSV2	1	93N 57.6 FSV3	25	FEE N 18.8 FSVT	7
89N 55.0 PSV2 - Sensor	5	93N 7.2 FSD5	988	FEE N 5.2 PSVT	1
89S 10.8 FSV5	299	93N 82.6 FSV3	5	FEE S 17.8 PSVT	1
89S 3.4 FSV5	639	93N 99.6 FSA3	5	FEE S 8.6 FSPT	5
89S 31.4 PSP5	1	93S 117.6 FSA1	2	ST N 1.0 FSAT	901
89S 42.6 PSP2	1	93S 122.2 FSV1	3	ST N 19.2 PSVT	1
89S 55.0 PSV2	3	93S 14.4 VSL D5	41	ST S 11.6 FSA6	239
89S 57.5 PSV2 - Sensor	3	93S 14.4 VSL D5 Median	41	ST S 3.4 FSDT	3,202
93 N 0.3 VSL D 5	41	93S 23.4 FSD5	701	ST S 34.4 PSVT	1
93 N 2.35 VSL D 5	41	93S 27.8 FSDT	1,505	ST S 7.8 FSAT	2,497

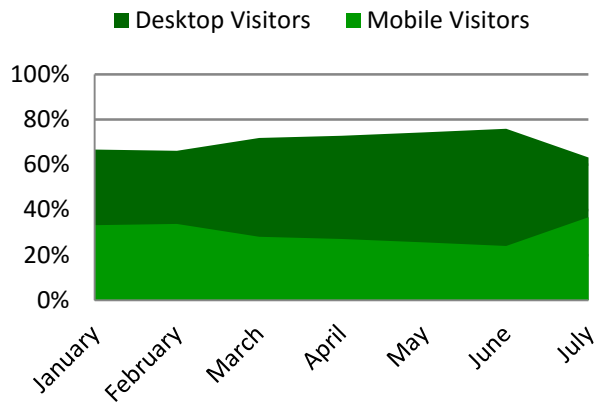


## Current Month - NHTMC Website

### 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.



31,169 Twitter Followers

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

The Highway Monitor NH 93  
 The Highway Monitor MA90  
 The Highway Monitor MA95  
 I93NH Traffic  
 Hey Did You Hear  
 Safe Roads Alliance  
 Right Now I/O Feed  
 UEA Trip Notification  
 National Emergency Alerts NE  
 NewHampshireProblems  
 WMUR  
 Josh Judge WMUR  
 Sean McDonald WMUR  
 Rosa Valentin WMUR  
 Jennifer Gannon WMUR  
 Melinda Davenport WMUR  
 Jim Foley WMUR

New Hampshire 1 News  
 Megan Carpenter Fox 44/ABC 22  
 Rose Spillman YCN News  
 SCG-TV 23  
 Salem Community TV  
 WZID  
 Susan Roantree WZID  
 93.3 The WOLF  
 WOKQ975  
 99.1 Frank FM  
 1490 WEMJ-AM  
 Radio Nashua CC  
 OC Radio Portsmouth  
 Union Leader.com  
 Seacoastonline.com  
 Londonderry News  
 Tweet NH

Laconia NH Police  
 Town of Peterborough  
 Boston Special Officer  
 Granite State Police  
 The Mall at Fox Run  
 Manchester Schools SAU #37  
 Concord NH Patch  
 Record Enterprise  
 Veterans Count  
 Red Cross NH  
 New Hampshire AFL-CIO  
 Hampton Inn Concord  
 NHGCD  
 NH Finest Market  
 Tweet Vermont  
 Adopt a Highway  
 Rockingham Alerts

Vista Vacations  
 WeeksActLegacyTrail  
 Motor City  
 Lawrence Ma.  
 City of Dover NH  
 Middleton NH Police  
 Valley News  
 Commuter Boston  
 EastWestExpress  
 Transport NH  
 NH Economy  
 NHFamilyLiving.com  
 NH Potholes  
 Southern NH Emergency  
 Alerts Live Incidents US  
 J4 Traffic  
 Action Page System