



# TRAFFIC MANAGEMENT CENTER PERFORMANCE MEASUREMENTS

August 2019

This report contains statistical and operational data for TMC activities from the period of August 01, 2019 to August 31, 2019.

## Executive Summary

| TOTAL INCIDENTS                                    |              |
|--|--------------|
| The total number of incidents during the period. * |              |
| Previous   | Current      |
| July   | August       |
| <b>3,407</b>                                       | <b>3,152</b> |

| TOTAL SECONDARY INCIDENTS   |           |
|---|-----------|
| Crashes that occur within the original incident scene or resulting queue. |           |
| Previous  | Current   |
| July  | August    |
| <b>8</b>  | <b>12</b> |

| TOTAL MULTI-VEHICLE INCIDENTS                                  |            |
|--|------------|
| The total number of multi-vehicle incidents during the period. |            |
| Previous   | Current    |
| July   | August     |
| <b>192</b>   | <b>222</b> |

| LANE BLOCKAGE INCIDENTS   |            |
|---|------------|
| The total number of incidents which resulted in at least one blocked lane of travel.* |            |
| Previous  | Current    |
| July  | August     |
| <b>323</b>  | <b>311</b> |

| AVERAGE CLEARANCE TIME                                      |                  |
|---|------------------|
| The average time for all lanes to be cleared after a crash. |                  |
| Previous  | Current          |
| July  | August           |
| <b>59 min</b>   | <b>1 hr 10 m</b> |

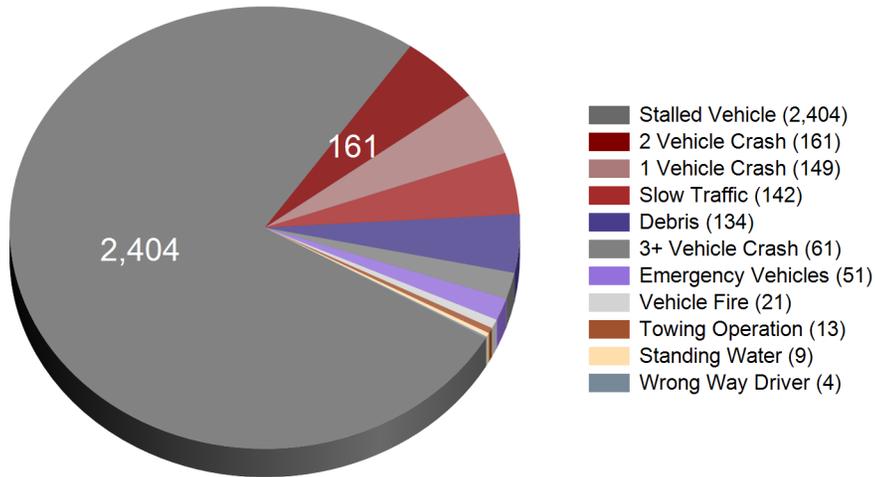
| TOTAL HIGHWAY HELPER RESPONSES   |              |
|--|--------------|
| The total number of incidents Highway Helper responded to during the period. |              |
| Previous   | Current      |
| July   | August       |
| <b>1,416</b>   | <b>1,287</b> |

\* - excludes roadwork

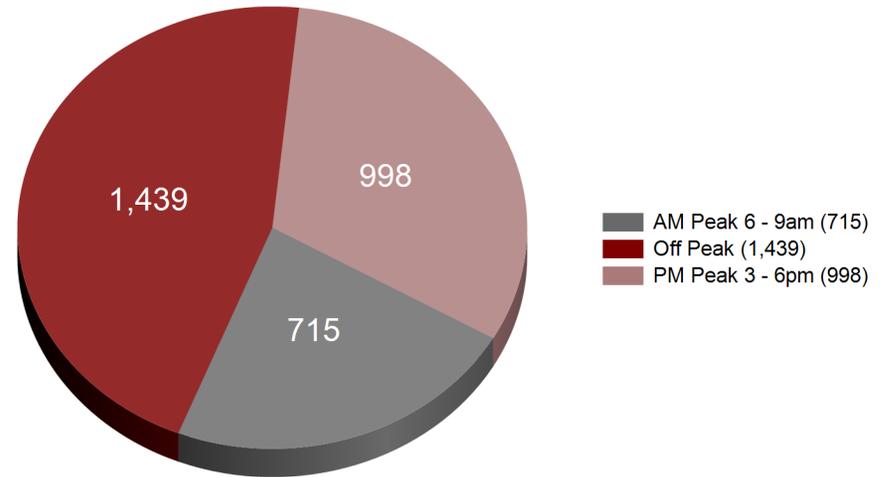
\*\* - incidents involving multiple vehicles are counted as a single incident in the totals displayed throughout this report

The term 'Avg Impact' is used throughout this report to indicate mainline closure times (excludes shoulder/ramp closure).

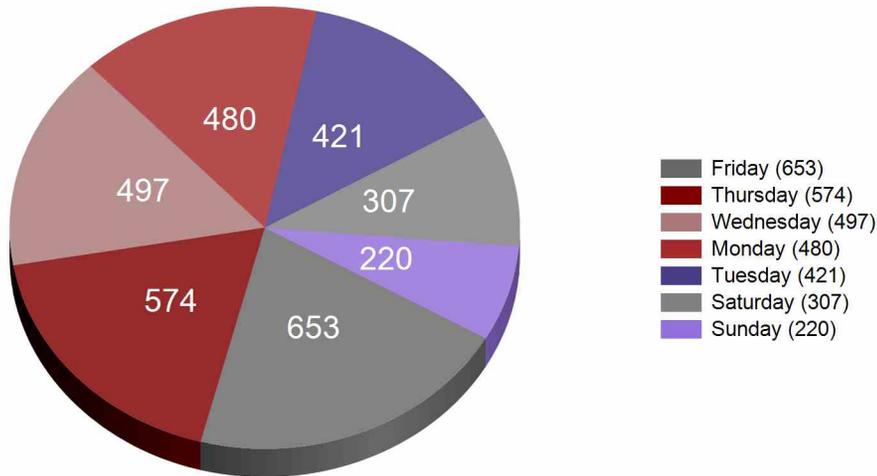
Incidents By Type



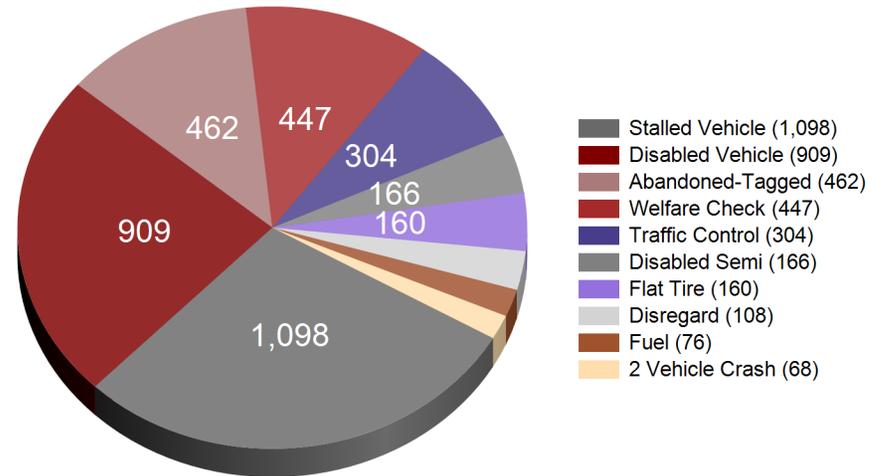
Incidents By Shift



Incidents By Day



Highway Helper Response

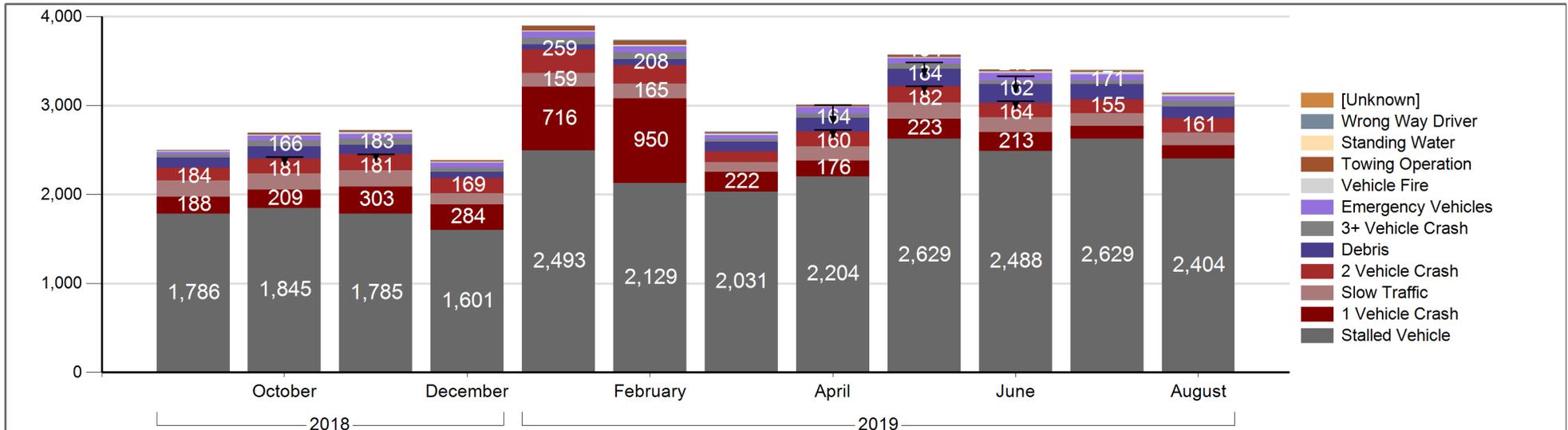


### INCIDENT TOTALS BY TYPE

The total number of incidents (an event on the roadway which affects or can affect normal traffic flow) during a given period.

| Type               | Total        | %           | Avg Impact       | District 1*  | District 2 | District 3 | District 4* | District 5 | District 6* |
|--------------------|--------------|-------------|------------------|--------------|------------|------------|-------------|------------|-------------|
| Stalled Vehicle    | 2,404        | 76%         | 24 min           | 1,138        | 34         | 39         | 346         | 15         | 782         |
| 2 Vehicle Crash    | 161          | 5%          | 59 min           | 96           | 5          | 4          | 16          | 8          | 32          |
| 1 Vehicle Crash    | 149          | 5%          | 1 hr 24 m        | 51           | 3          | 4          | 30          | 12         | 48          |
| Slow Traffic       | 142          | 5%          | 37 min           | 112          | 5          | 0          | 6           | 1          | 13          |
| Debris             | 134          | 4%          | 38 min           | 62           | 8          | 6          | 8           | 18         | 32          |
| 3+ Vehicle Crash   | 61           | 2%          | 1 hr 10 m        | 32           | 1          | 3          | 7           | 2          | 15          |
| Emergency Vehicles | 51           | 2%          | 1 hr 47 m        | 15           | 3          | 5          | 7           | 7          | 14          |
| Vehicle Fire       | 21           | 1%          | 53 min           | 13           | 0          | 0          | 3           | 0          | 5           |
| Towing Operation   | 13           | 0%          | 7 hr 32 m        | 5            | 0          | 0          | 3           | 0          | 5           |
| Standing Water     | 9            | 0%          |                  | 3            | 0          | 0          | 2           | 4          | 0           |
| Wrong Way Driver   | 4            | 0%          |                  | 0            | 0          | 0          | 1           | 0          | 3           |
| Flooding           | 2            | 0%          | 2 hr 35 m        | 2            | 0          | 0          | 0           | 0          | 0           |
| <b>Total</b>       | <b>3,151</b> | <b>100%</b> | <b>1 hr 14 m</b> | <b>1,529</b> | <b>59</b>  | <b>61</b>  | <b>429</b>  | <b>67</b>  | <b>949</b>  |

\* - Totals include Highway Helper Incidents

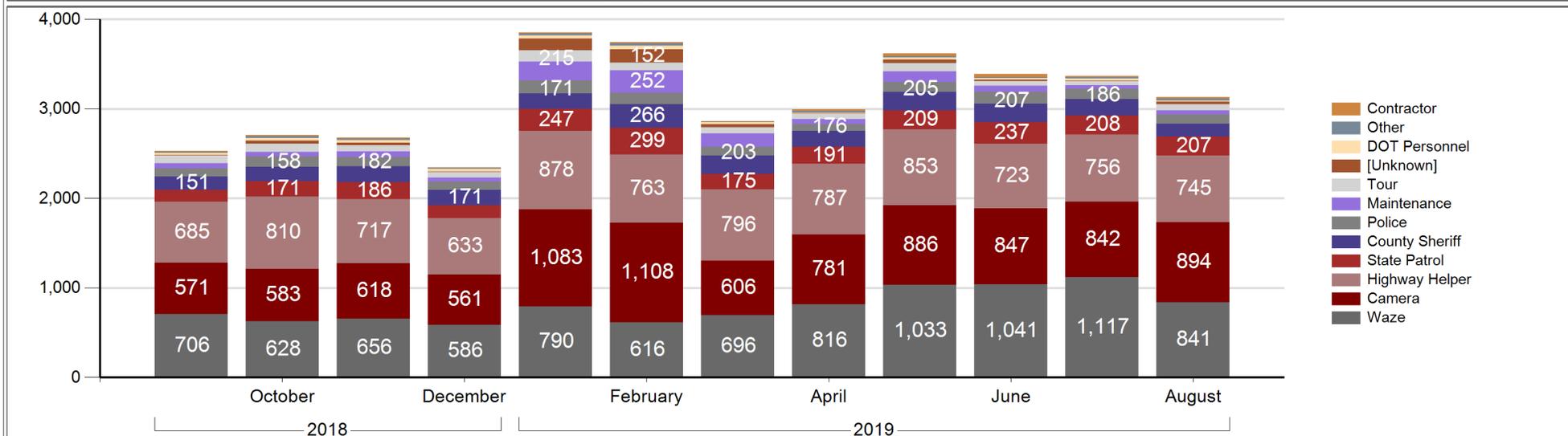


### INCIDENT TOTALS BY DETECTION TYPE

The total number of incidents (an event on the roadway which affects or can affect normal traffic flow) during a given period.

| Type           | Total        | %           | District 1*  | District 2 | District 3 | District 4* | District 5 | District 6* |
|----------------|--------------|-------------|--------------|------------|------------|-------------|------------|-------------|
| Camera         | 894          | 28%         | 508          | 21         | 15         | 93          | 1          | 235         |
| Waze           | 841          | 27%         | 420          | 8          | 20         | 88          | 1          | 283         |
| Highway Helper | 745          | 24%         | 294          | 0          | 1          | 171         | 1          | 269         |
| State Patrol   | 207          | 7%          | 103          | 6          | 4          | 42          | 17         | 34          |
| County Sheriff | 145          | 5%          | 36           | 9          | 10         | 14          | 30         | 46          |
| Police         | 103          | 3%          | 68           | 2          | 5          | 3           | 1          | 24          |
| Tour           | 72           | 2%          | 40           | 0          | 3          | 8           | 0          | 18          |
| Other          | 71           | 2%          | 44           | 4          | 0          | 6           | 4          | 12          |
| Maintenance    | 46           | 1%          | 10           | 1          | 2          | 4           | 5          | 23          |
| Contractor     | 17           | 1%          | 3            | 8          | 0          | 0           | 6          | 0           |
| DOT Personnel  | 11           | 0%          | 3            | 0          | 1          | 0           | 1          | 6           |
| <b>Total</b>   | <b>3,152</b> | <b>100%</b> | <b>1,529</b> | <b>59</b>  | <b>61</b>  | <b>429</b>  | <b>67</b>  | <b>950</b>  |

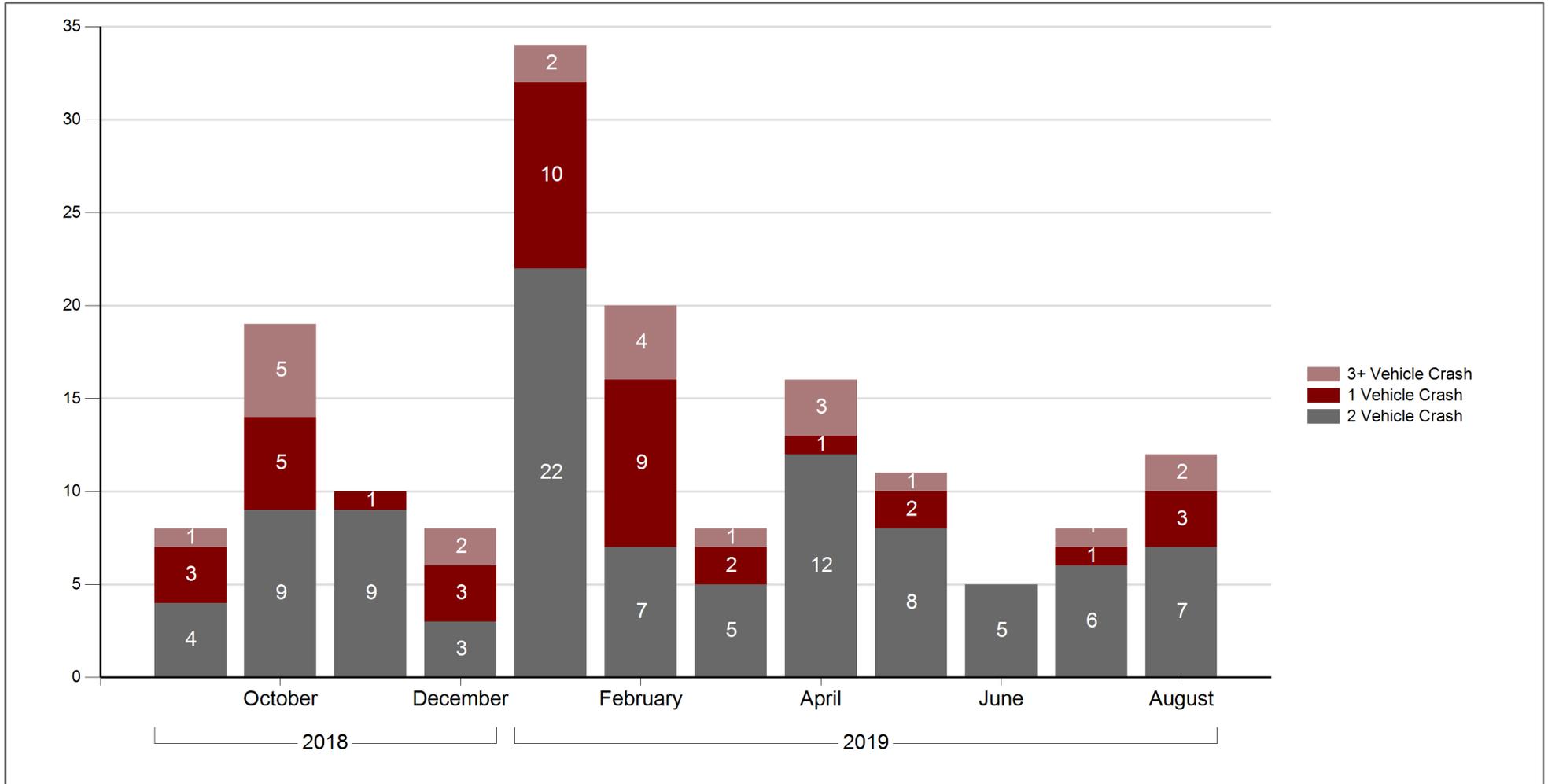
\* - Totals include Highway Helper Incidents



### SECONDARY INCIDENTS BY TYPE

Crashes that occur within the original incident scene or resulting queue.

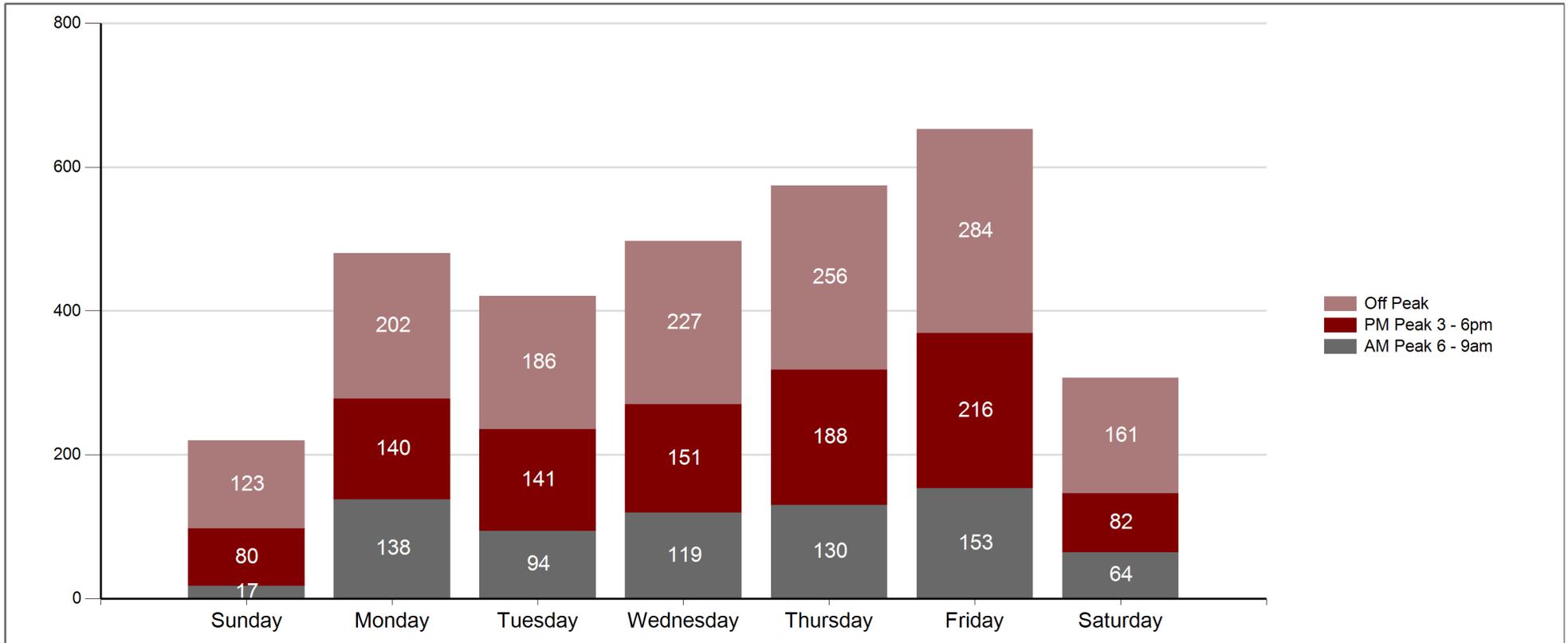
| Type             | Total     | %           | Avg Impact    | District 1 | District 2 | District 3 | District 4 | District 5 | District 6 |
|------------------|-----------|-------------|---------------|------------|------------|------------|------------|------------|------------|
| 2 Vehicle Crash  | 7         | 58%         | 6 min         | 5          | 0          | 0          | 1          | 0          | 1          |
| 1 Vehicle Crash  | 3         | 25%         | 3 min         | 1          | 0          | 0          | 1          | 0          | 1          |
| 3+ Vehicle Crash | 2         | 17%         | 47 min        | 1          | 0          | 0          | 0          | 0          | 1          |
| <b>Total</b>     | <b>12</b> | <b>100%</b> | <b>15 min</b> | <b>7</b>   | <b>0</b>   | <b>0</b>   | <b>2</b>   | <b>0</b>   | <b>3</b>   |



### INCIDENTS BY DAY OF WEEK

The total number of incidents (an event on the roadway which affects or can affect normal traffic flow) during a given period.

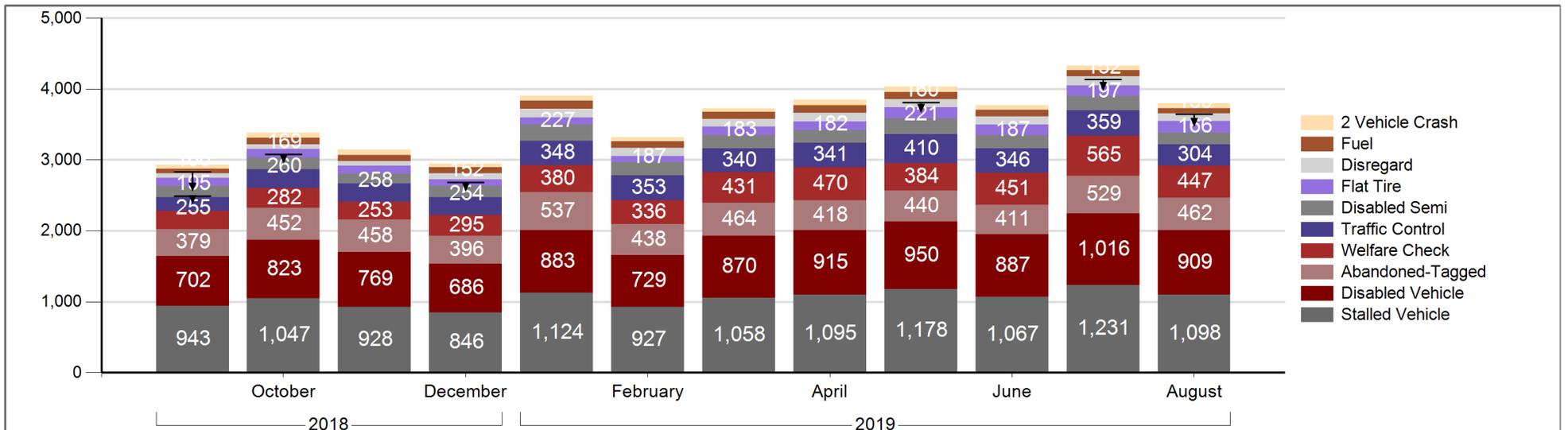
| Weekday      | Total        | %           | Avg Impact    | District 1   | District 2 | District 3 | District 4 | District 5 | District 6 |
|--------------|--------------|-------------|---------------|--------------|------------|------------|------------|------------|------------|
| Friday       | 653          | 21%         | 55 min        | 328          | 14         | 16         | 95         | 6          | 189        |
| Thursday     | 574          | 18%         | 1 hr 40 m     | 258          | 13         | 7          | 74         | 13         | 200        |
| Wednesday    | 497          | 16%         | 55 min        | 240          | 9          | 4          | 84         | 7          | 143        |
| Monday       | 480          | 15%         | 51 min        | 234          | 4          | 5          | 52         | 9          | 162        |
| Tuesday      | 421          | 13%         | 1 hr 45 m     | 201          | 5          | 13         | 63         | 13         | 118        |
| Saturday     | 307          | 10%         | 1 hr 11 m     | 167          | 8          | 7          | 38         | 11         | 72         |
| Sunday       | 220          | 7%          | 1 hr 13 m     | 101          | 6          | 9          | 23         | 8          | 66         |
| <b>Total</b> | <b>3,152</b> | <b>100%</b> | <b>55 min</b> | <b>1,529</b> | <b>59</b>  | <b>61</b>  | <b>429</b> | <b>67</b>  | <b>950</b> |



### HIGHWAY HELPER RESPONSES

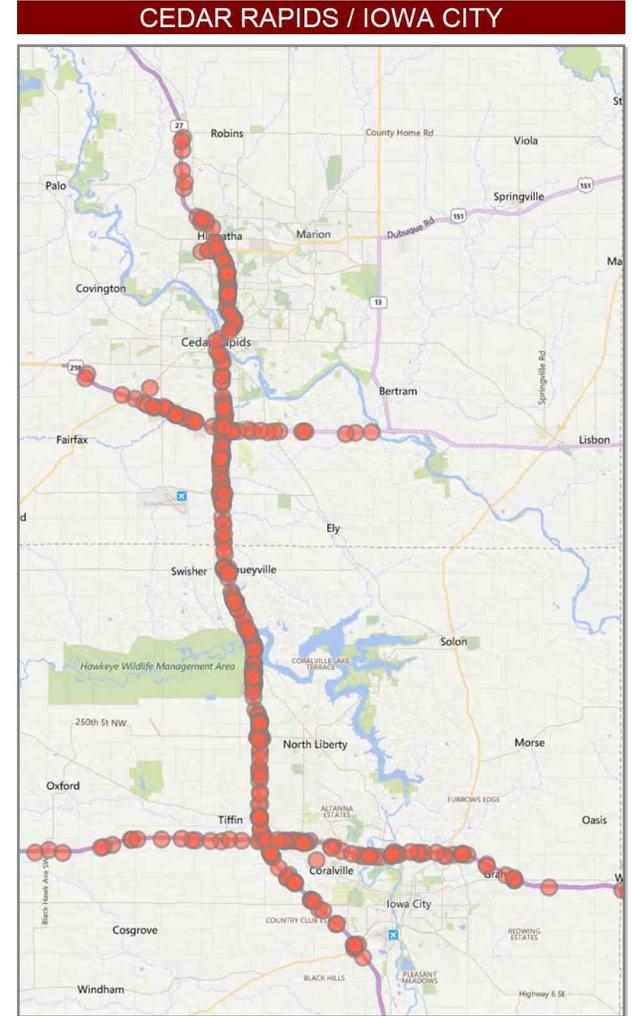
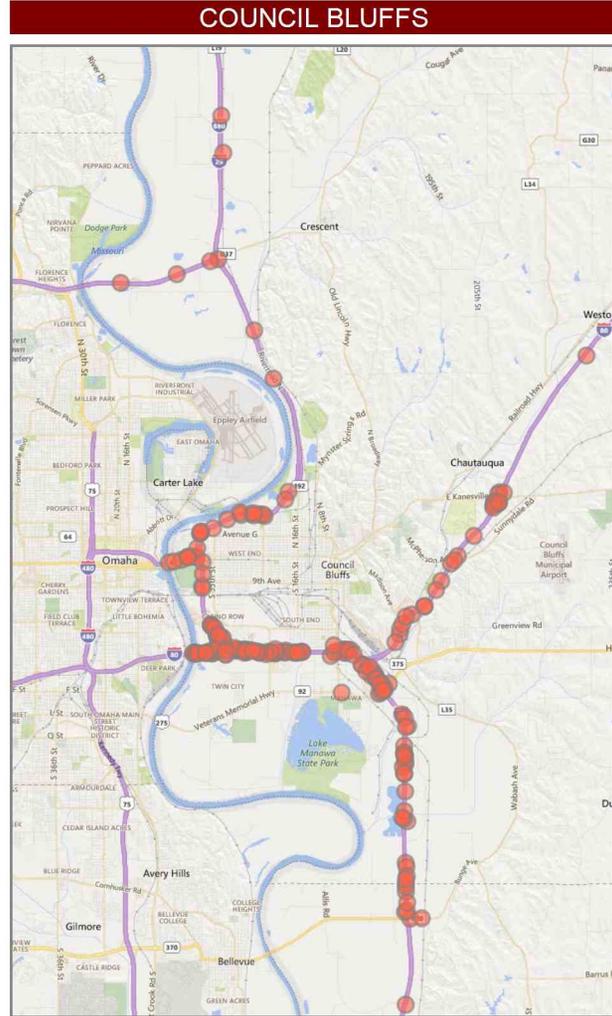
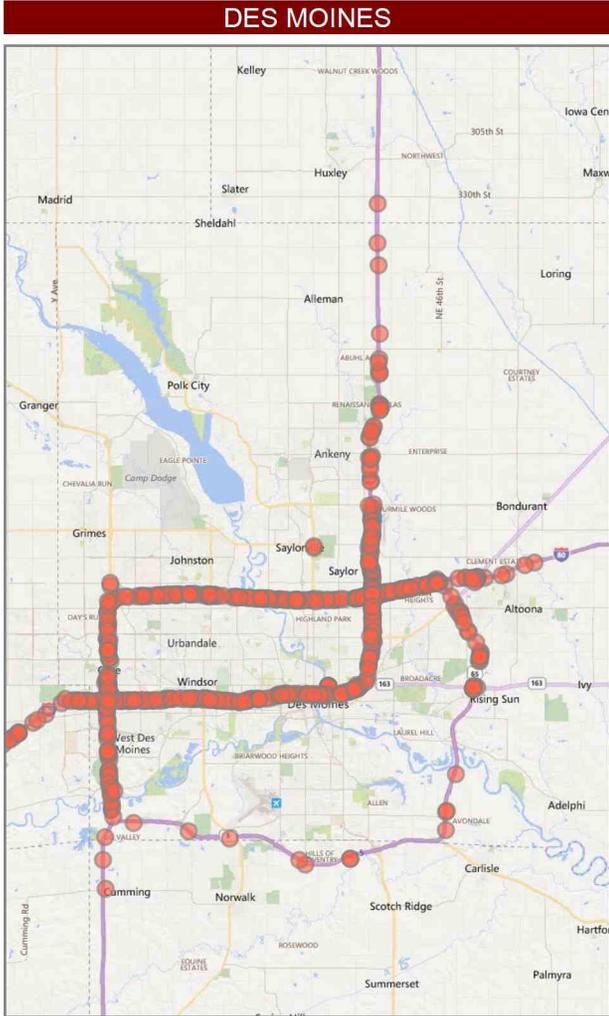
The total number of incidents Highway Helper responded to during the period.

| Type              | Total        | %           | Avg Impact    |  | Des Moines   | Council Bluffs | Cedar Rapids / Iowa City |
|-------------------|--------------|-------------|---------------|--|--------------|----------------|--------------------------|
| Stalled Vehicle   | 1,098        | 26%         | 21 min        |  | 522          | 210            | 357                      |
| Disabled Vehicle  | 909          | 21%         | 27 min        |  | 467          | 161            | 275                      |
| Abandoned-Tagged  | 464          | 11%         | 21 min        |  | 267          | 54             | 142                      |
| Welfare Check     | 453          | 11%         | 14 min        |  | 186          | 97             | 167                      |
| Traffic Control   | 330          | 8%          | 31 min        |  | 163          | 62             | 103                      |
| Flat Tire         | 203          | 5%          | 19 min        |  | 99           | 44             | 60                       |
| Disabled Semi     | 166          | 4%          | 12 min        |  | 49           | 43             | 73                       |
| Disregard         | 121          | 3%          | 21 min        |  | 75           | 13             | 33                       |
| Debris            | 101          | 2%          | 19 min        |  | 59           | 11             | 29                       |
| Fuel              | 81           | 2%          | 18 min        |  | 44           | 16             | 20                       |
| 2 Vehicle Crash   | 68           | 2%          | 38 min        |  | 48           | 9              | 11                       |
| Mechanical Repair | 64           | 1%          | 50 min        |  | 35           | 13             | 16                       |
| <b>Total</b>      | <b>4,058</b> | <b>100%</b> | <b>35 min</b> |  | <b>2,014</b> | <b>733</b>     | <b>1,286</b>             |



**HIGHWAY HELPER ASSIST BY LOCATION**

Highway Helper detected incidents and response locations.

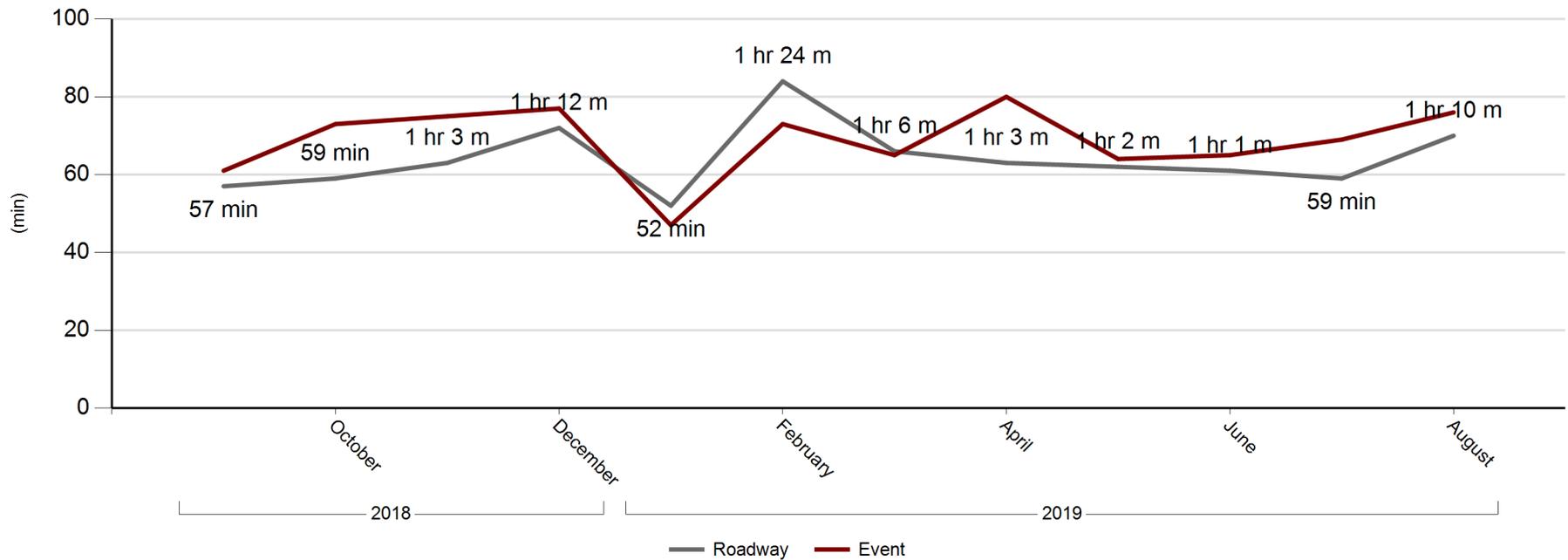


### INCIDENT CLEARANCE TIMES (CRASHES ONLY)

Event : All Responders Departed / Roadway : All Lanes Re-Opened

|         | Type       | Total            | District 1 | District 2 | District 3 | District 4 | District 5 | District 6 |
|---------|------------|------------------|------------|------------|------------|------------|------------|------------|
| Event   | All        | <b>1 hr 27 m</b> | 1 hr 19 m  | 1 hr 40 m  | 2 hr 23 m  | 1 hr 16 m  | 2 hr 2 m   | 1 hr 20 m  |
|         | Federal    | 1 hr 32 m        | 1 hr 11 m  | 33 min     | 43 min     | 11 min     | 2 hr 22 m  | 2 hr 4 m   |
|         | Interstate | 1 hr 13 m        | 1 hr 21 m  | 1 hr 8 m   | 3 hr 52 m  | 1 hr 13 m  | 1 hr 16 m  | 54 min     |
|         | State      | 2 hr 9 m         | 1 hr 25 m  | 2 hr 46 m  | 4 hr 10 m  | 2 hr 54 m  | 2 hr 16 m  |            |
| Roadway | All        | <b>1 hr 10 m</b> | 58 min     | 1 hr 26 m  | 1 hr 56 m  | 1 hr 2 m   | 2 hr 2 m   | 1 hr 5 m   |
|         | Federal    | 1 hr 19 m        | 56 min     | 33 min     | 24 min     | 23 min     | 2 hr 22 m  | 1 hr 52 m  |
|         | Interstate | 57 min           | 1 hr 3 m   | 51 min     | 3 hr 34 m  | 57 min     | 1 hr 16 m  | 42 min     |
|         | State      | 1 hr 44 m        | 48 min     | 2 hr 46 m  | 4 hr 9 m   | 2 hr 48 m  | 2 hr 16 m  |            |

All Roads (Interstate / Federal / State)

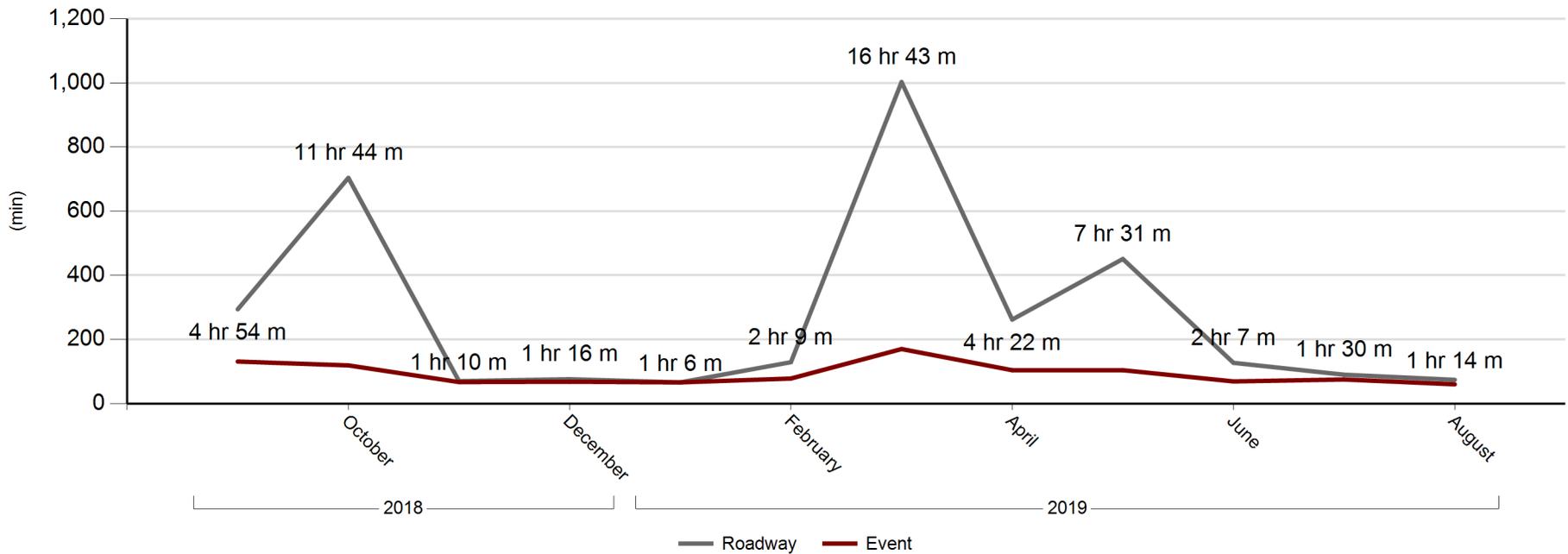


### INCIDENT CLEARANCE TIMES (ALL TYPES)

Event : All Responders Departed / Roadway : All Lanes Re-Opened

|         | Type       | Total            | District 1 | District 2 | District 3 | District 4 | District 5 | District 6 |
|---------|------------|------------------|------------|------------|------------|------------|------------|------------|
| Event   | All        | <b>1 hr 23 m</b> | 1 hr 4 m   | 1 hr 29 m  | 1 hr 42 m  | 1 hr 34 m  | 2 hr 10 m  | 1 hr 29 m  |
|         | Federal    | 1 hr 37 m        | 1 hr 14 m  | 28 min     | 57 min     | 24 min     | 3 hr 4 m   | 2 hr 7 m   |
|         | Interstate | 1 hr 9 m         | 1 hr       | 1 hr 8 m   | 1 hr 35 m  | 1 hr 30 m  | 1 hr 5 m   | 1 hr 5 m   |
|         | State      | 2 hr 1 m         | 1 hr 9 m   | 2 hr 24 m  | 4 hr 10 m  | 3 hr 37 m  | 2 hr 10 m  | 1 hr 59 m  |
| Roadway | All        | <b>1 hr 14 m</b> | 1 hr 4 m   | 2 hr 2 m   | 1 hr 13 m  | 1 hr 7 m   | 1 hr 50 m  | 1 hr 13 m  |
|         | Federal    | 1 hr 20 m        | 57 min     | 28 min     | 45 min     | 30 min     | 2 hr 30 m  | 1 hr 43 m  |
|         | Interstate | 1 hr 3 m         | 1 hr 9 m   | 51 min     | 1 hr 28 m  | 59 min     | 57 min     | 58 min     |
|         | State      | 1 hr 44 m        | 56 min     | 3 hr 10 m  | 1 hr 52 m  | 3 hr 33 m  | 1 hr 51 m  | 1 hr 56 m  |

All Roads (Interstate / Federal / State)



**INCIDENTS (CLEARANCE TIME DEVIATION)**

| Type   | Date / Time    | Incident #            | Highway | Fatality | Injury | Semi | Duration  | Description  |
|--|----------------|-----------------------|---------|----------|--------|------|-----------|--|
| <b>1 Vehicle Crash (Avg Impact : 1 hr 24 m)</b>    |                |                       |         |          |        |      |           |  |
|  | 08/15 11:22 PM | <a href="#">98163</a> | IA-150  |          | 1      |      | 6 hr 16 m | Initial report of a single vehicle crash on IA-150 at MM 38 (near Independence). |
|  | 08/29 08:01 PM | <a href="#">99635</a> | US-61   | 1        | 1      |      | 4 hr 49 m | Initial report of a single vehicle crash on US-61 NB at MM 191 in Dubuque.       |
|  | 08/27 04:28 PM | <a href="#">99344</a> | I-35    |          |        | 1    | 7 hr 54 m | Initial report of a single vehicle crash on I-35 NB at MM 143 (near Williams).   |
|  | 08/27 08:32 AM | <a href="#">99297</a> | IA-163  |          |        | 1    | 3 hr 56 m | Initial report of a single vehicle crash on IA-163 WB at MM 52 (near Leighton).  |
|  | 08/20 06:43 AM | <a href="#">98575</a> | IA-14   |          | 1      | 1    | 4 hr 19 m | Initial report of a single vehicle crash on IA-14 SB at MM 50 (near Knoxville).  |
|  | 08/26 12:05 AM | <a href="#">99158</a> | I-80    | 1        |        |      | 3 hr 10 m | Initial report of a single vehicle crash on I-80 WB at MM 298 in Davenport.      |
|  | 08/16 07:22 AM | <a href="#">98198</a> | US-34   |          |        | 1    | 4 hr 38 m | Initial report of a single vehicle crash on US-34 EB at MM 199 (near Agency).    |
|  | 08/20 04:32 PM | <a href="#">98648</a> | I-29    |          | 1      | 1    | 3 hr 34 m | Initial report of a single vehicle crash on I-29 SB at MM 144 in Sioux City.     |
| <b>2 Vehicle Crash (Avg Impact : 59 min)</b>       |                |                       |         |          |        |      |           |  |
|  | 08/28 10:02 AM | <a href="#">99426</a> | I-35    |          |        | 2    | 5 hr 23 m | Initial report of a 2 vehicle crash on I-35 NB at MM 160 (near Dows).            |
|  | 08/06 12:58 PM | <a href="#">97125</a> | IA-25   | 1        |        |      | 5 hr 2 m  | Initial report of a 2 vehicle crash on IA-25 NB at MM 57 (near Greenfield).      |
|  | 08/26 05:34 PM | <a href="#">99254</a> | US-218  |          | 3      |      | 2 hr 11 m | Initial report of a 2 vehicle crash on US-218 SB at MM 34 (near Salem).          |
|  | 08/01 02:37 PM | <a href="#">96706</a> | IA-9    |          | 1      | 2    | 4 hr 54 m | Initial report of a 2 vehicle crash on IA-9 WB at MM 127 (near Lakota).          |
|  | 08/04 11:41 PM | <a href="#">96968</a> | US-30   | 2        |        |      | 3 hr 44 m | Initial report of a 2 vehicle crash on US-30 WB at MM 249 (near Fairfax).        |
|  | 08/28 10:30 AM | <a href="#">99430</a> | I-80    |          | 4      | 1    | 2 hr 11 m | Initial report of a 2 vehicle crash on I-80 EB at MM 2 in Council Bluffs.        |
| <b>3+ Vehicle Crash (Avg Impact : 1 hr 11 m)</b>   |                |                       |         |          |        |      |           |  |
|  | 08/20 05:39 AM | <a href="#">98567</a> | I-80    |          |        | 5    | 3 hr 7 m  | Initial report of a 3+ vehicle crash on I-80 WB at MM 80 (near Casey).           |
|  | 08/25 10:01 AM | <a href="#">99109</a> | US-151  |          | 3      |      | 3 hr 18 m | Initial report of a 3 vehicle crash on US-151 SB at MM 23 in Fairfax.            |
|  | 08/06 07:36 AM | <a href="#">97105</a> | IA-7    |          | 3      | 2    | 7 hr 19 m | Initial report of a 3+ vehicle crash on IA-7 WB at MM 36 (near Fonda).           |
|  | 08/08 07:37 AM | <a href="#">97336</a> | IA-415  |          | 1      |      | 3 hr 30 m | Initial report of a 3+ vehicle crash on IA-415 NB/SB at MM 4 (near Saylorville). |
|  | 08/28 07:53 PM | <a href="#">99504</a> | US-30   | 1        |        |      | 4 hr 13 m | Initial report of a 3+ vehicle crash on US-30 WB at MM 145 in Ames.              |
| <b>Debris (Avg Impact : 39 min)</b>                |                |                       |         |          |        |      |           |  |
|  | 08/21 09:15 AM | <a href="#">98724</a> | US-69   |          |        |      | 3 hr 9 m  | Initial report of a debris event on US-69 NB at MM 56 (near New Virginia).       |
| <b>Emergency Vehicles (Avg Impact : 1 hr 47 m)</b> |                |                       |         |          |        |      |           |  |
|  | 08/08 07:37 AM | <a href="#">97335</a> | IA-93   | 1        |        |      | 3 hr 31 m | Initial report of an emergency vehicles event on IA-93 WB/EB at MM 14 in Sumner. |

**INCIDENTS (CLEARANCE TIME DEVIATION)**

| Type  | Date / Time    | Incident #            | Highway | Fatality | Injury | Semi | Duration  | Description  |
|---|----------------|-----------------------|---------|----------|--------|------|-----------|--|
| Emergency Vehicles (Avg Impact : 1 hr 47 m) |                |                       |         |          |        |      |           |  |
|   | 08/13 04:31 AM | <a href="#">97769</a> | US-20   |          |        |      | 4 hr 10 m | Initial report of a broken water main on US-20 EB at MM 318 in Dubuque.      |
| Stalled Vehicle (Avg Impact : 24 min)       |                |                       |         |          |        |      |           |  |
|   | 08/12 12:01 PM | <a href="#">97699</a> | US-34   |          |        | 1    | 4 hr 22 m | Initial report of a stalled vehicle on US-34 WB at MM 211 (near Long Grove). |
| Vehicle Fire (Avg Impact : 53 min)          |                |                       |         |          |        |      |           |  |
|   | 08/27 01:32 PM | <a href="#">99326</a> | US-20   |          |        |      | 2 hr 6 m  | Initial report of a vehicle fire on US-20 EB at MM 164 (near Buckeye).       |
|   | 08/17 11:19 AM | <a href="#">98340</a> | I-29    |          |        | 1    | 3 hr 36 m | Initial report of a vehicle fire on I-29 SB at MM 70 (near Missouri Valley). |