



TRAFFIC MANAGEMENT CENTER PERFORMANCE MEASUREMENTS

April 2019

This report contains statistical and operational data for TMC activities from the period of April 01, 2019 to April 30, 2019.

Executive Summary

| TOTAL INCIDENTS | | TOTAL SECONDARY INCIDENTS | | TOTAL MULTI-VEHICLE INCIDENTS | |
|--|--------------|---|-----------|--|------------|
| The total number of incidents during the period. * | | Crashes that occur within the original incident scene or resulting queue. | | The total number of multi-vehicle incidents during the period. | |
| Previous | Current | Previous | Current | Previous | Current |
| March | April | March | April | March | April |
| 2,892 | 3,037 | 8 | 16 | 152 | 209 |

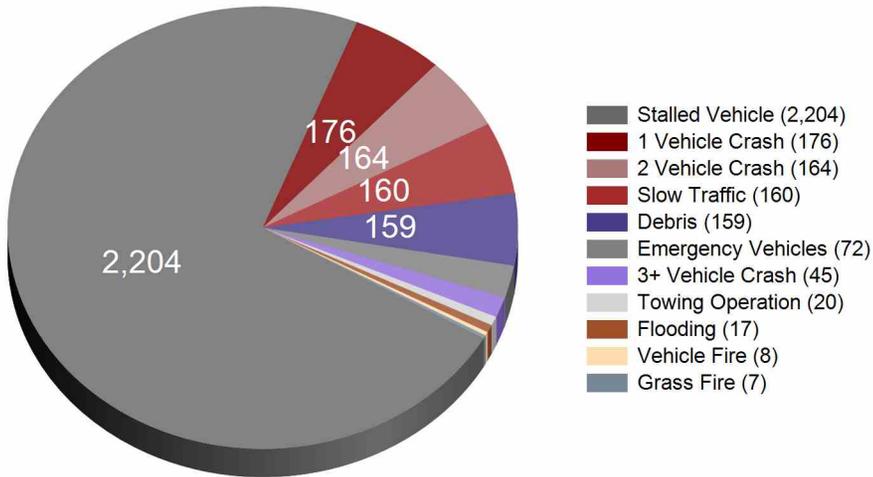
| LANE BLOCKAGE INCIDENTS | | AVERAGE CLEARANCE TIME | | TOTAL HIGHWAY HELPER RESPONSES | |
|---|------------|---|-----------------|--|--------------|
| The total number of incidents which resulted in at least one blocked lane of travel.* | | The average time for all lanes to be cleared after a crash. | | The total number of incidents Highway Helper responded to during the period. | |
| Previous | Current | Previous | Current | Previous | Current |
| March | April | March | April | March | April |
| 409 | 333 | 1 hr 6 m | 1 hr 3 m | 1,199 | 1,286 |

* - excludes roadwork

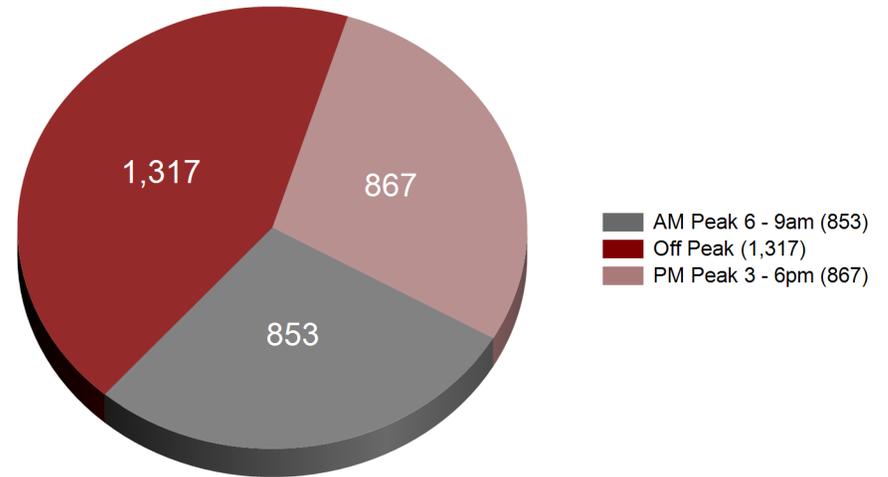
** - incidents involving multiple vehicles are counted as a single incident in the totals displayed throughout this report

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

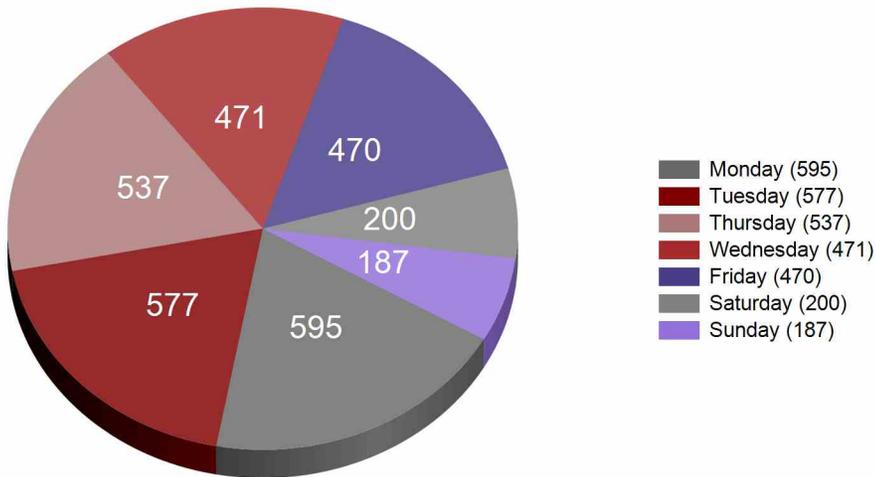
Incidents By Type



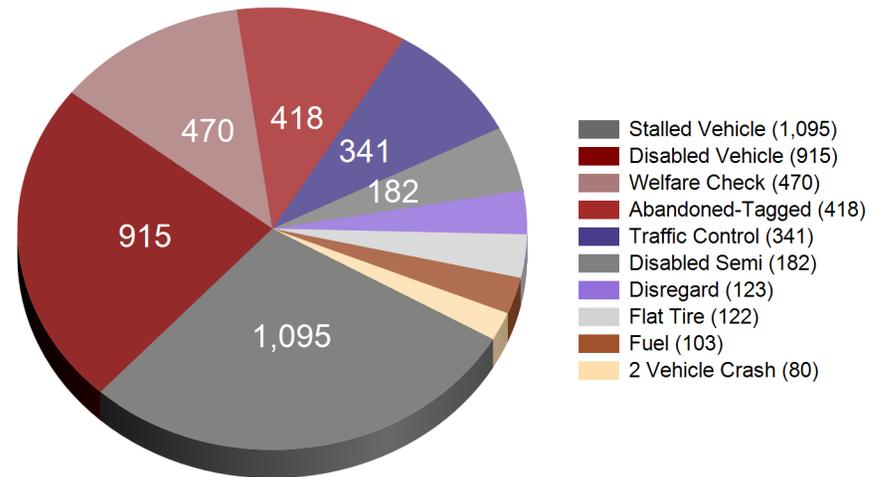
Incidents By Shift



Incidents By Day



Highway Helper Response

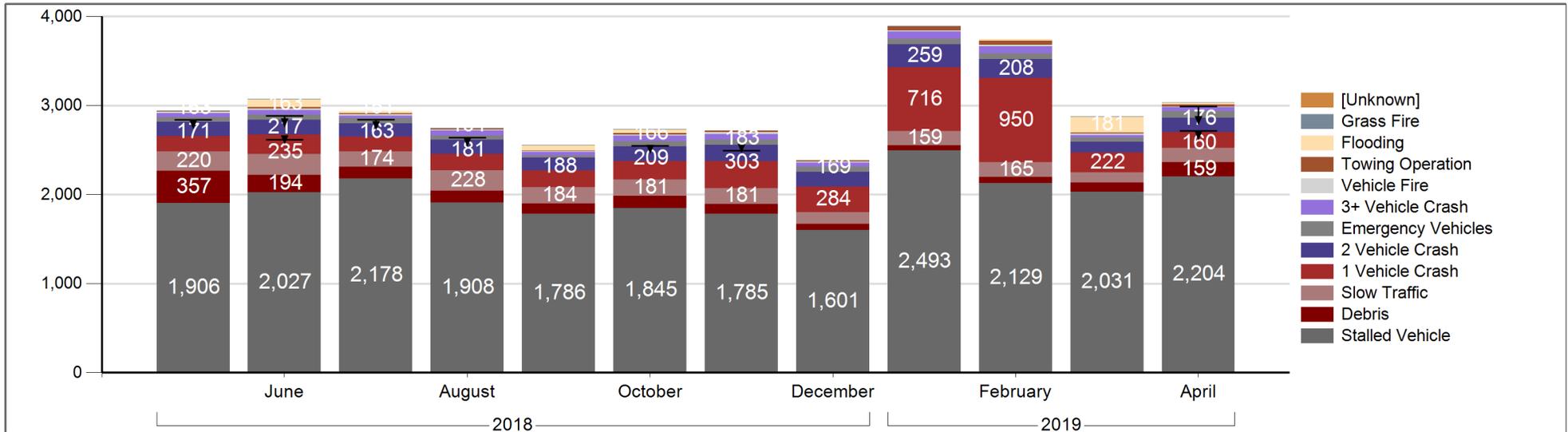


INCIDENT TOTALS BY TYPE

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 | 2,204 | 73% | 50 min | 1,012 | 54 | 32 | 329 | 72 | 674 |
| 1 Vehicle Crash | 176 | 6% | 1 hr 14 m | 56 | 16 | 16 | 20 | 14 | 54 |
| 2 Vehicle Crash | 164 | 5% | 1 hr 2 m | 86 | 7 | 5 | 18 | 1 | 46 |
| Slow Traffic | 160 | 5% | 13 min | 87 | 28 | 3 | 27 | 1 | 14 |
| Debris | 159 | 5% | 29 min | 62 | 15 | 10 | 14 | 14 | 43 |
| Emergency Vehicles | 72 | 2% | 2 hr 37 m | 21 | 15 | 14 | 7 | 5 | 9 |
| 3+ Vehicle Crash | 45 | 1% | 48 min | 25 | 4 | 4 | 4 | 0 | 8 |
| Towing Operation | 20 | 1% | 2 hr 46 m | 5 | 1 | 1 | 2 | 4 | 7 |
| Flooding | 17 | 1% | 1 day 17 hr 5 m | 0 | 1 | 0 | 5 | 5 | 6 |
| Vehicle Fire | 8 | 0% | 1 hr | 3 | 0 | 0 | 0 | 1 | 4 |
| Grass Fire | 7 | 0% | 13 min | 2 | 0 | 0 | 3 | 1 | 1 |
| Wrong Way Driver | 5 | 0% | 14 min | 0 | 0 | 0 | 2 | 0 | 3 |
| Total | 3,037 | 100% | 3 hr 15 m | 1,359 | 141 | 85 | 431 | 118 | 869 |

* - Totals include Highway Helper Incidents

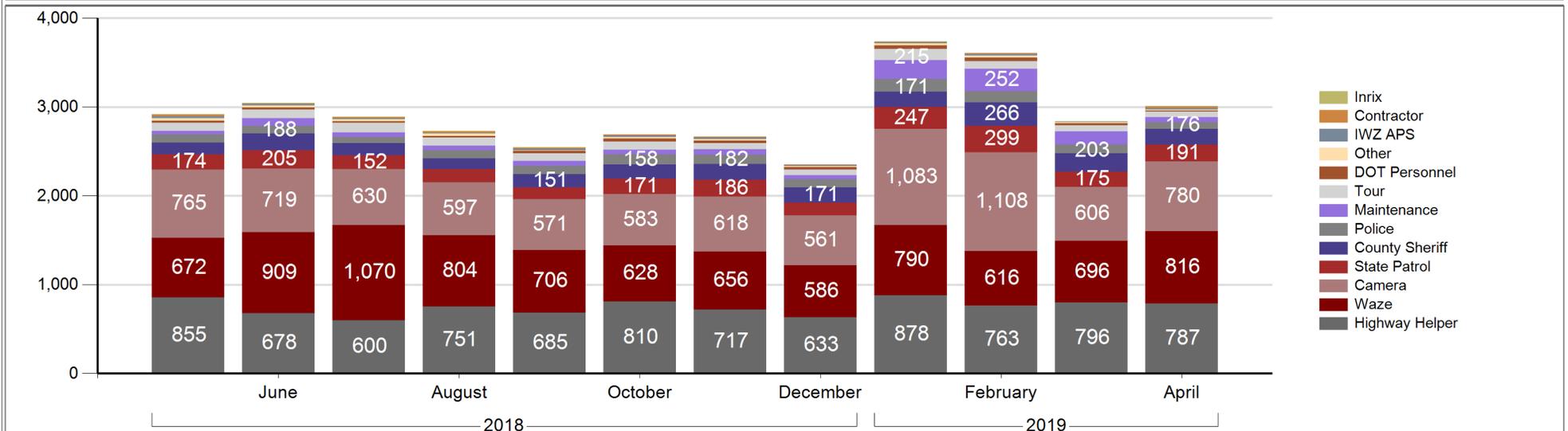


INCIDENT TOTALS BY DETECTION TYPE

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* |
|----------------|--------------|-------------|--------------|------------|------------|-------------|------------|-------------|
| Waze | 816 | 27% | 421 | 30 | 10 | 61 | 30 | 255 |
| Highway Helper | 787 | 26% | 317 | 0 | 0 | 207 | 1 | 260 |
| Camera | 780 | 26% | 391 | 39 | 25 | 93 | 35 | 180 |
| State Patrol | 191 | 6% | 82 | 7 | 15 | 27 | 18 | 42 |
| County Sheriff | 176 | 6% | 36 | 26 | 23 | 10 | 15 | 65 |
| Police | 78 | 3% | 39 | 4 | 3 | 4 | 1 | 27 |
| Tour | 63 | 2% | 28 | 9 | 3 | 10 | 3 | 7 |
| Maintenance | 58 | 2% | 15 | 11 | 3 | 4 | 7 | 18 |
| Other | 49 | 2% | 19 | 5 | 2 | 12 | 4 | 6 |
| IWZ APS | 16 | 1% | 0 | 9 | 1 | 2 | 0 | 4 |
| Contractor | 15 | 0% | 7 | 1 | 0 | 1 | 2 | 3 |
| DOT Personnel | 8 | 0% | 4 | 0 | 0 | 0 | 2 | 2 |
| Total | 3,037 | 100% | 1,359 | 141 | 85 | 431 | 118 | 869 |

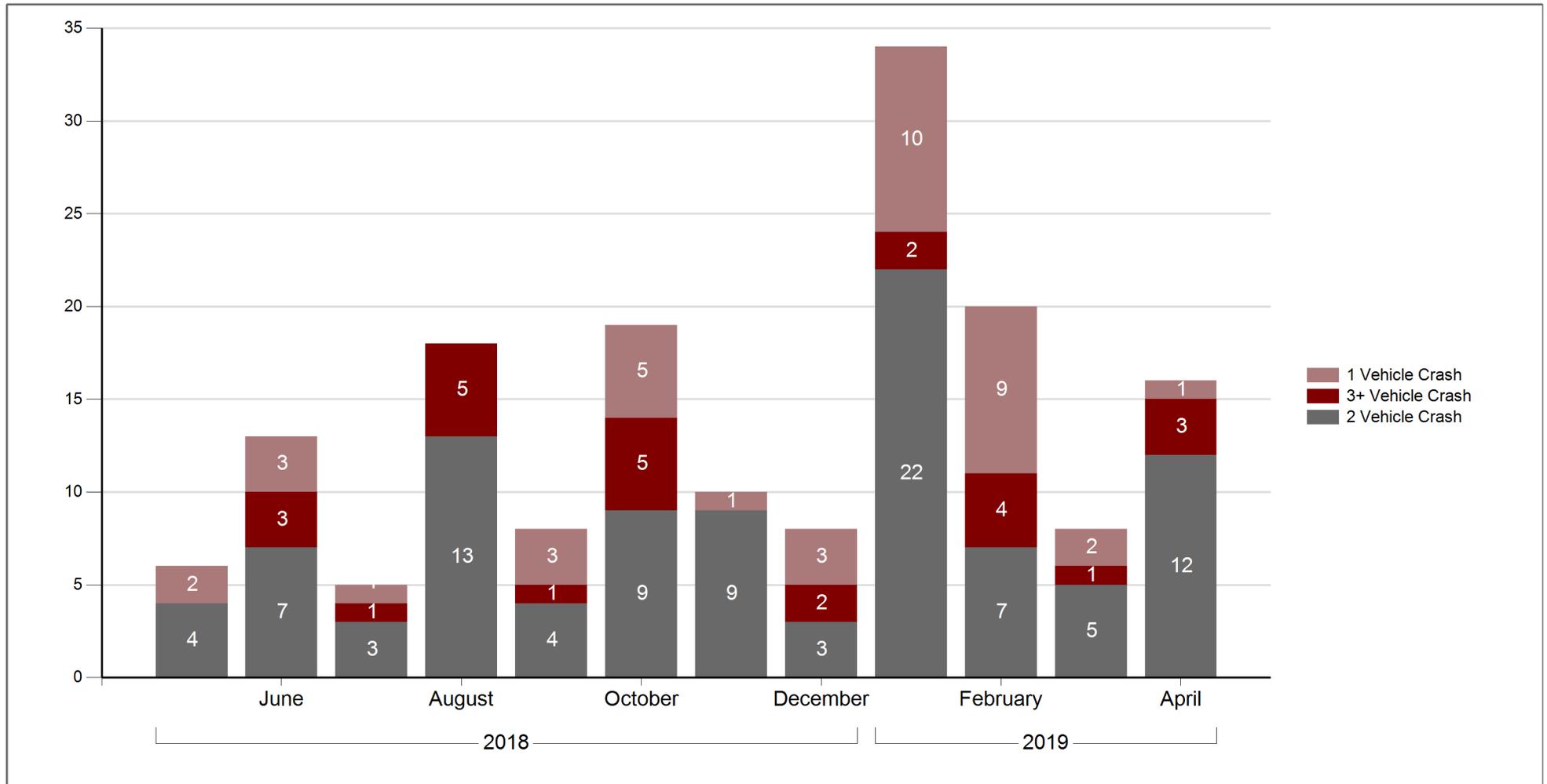
* - Totals include Highway Helper Incidents



SECONDARY INCIDENTS BY TYPE

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

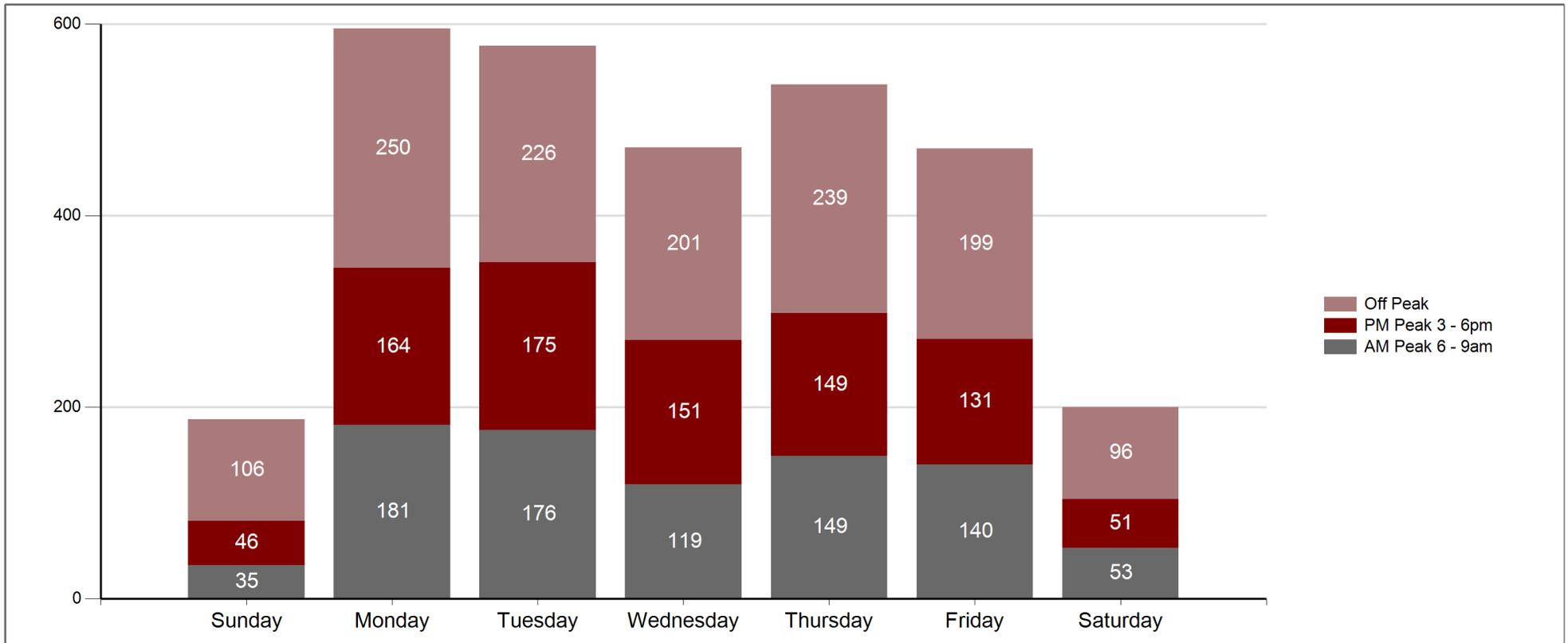
| Type | Total | % | Avg Impact | District 1 | District 2 | District 3 | District 4 | District 5 | District 6 |
|------------------|-----------|-------------|------------------|------------|------------|------------|------------|------------|------------|
| 2 Vehicle Crash | 12 | 75% | 2 hr 16 m | 4 | 1 | 0 | 3 | 0 | 4 |
| 3+ Vehicle Crash | 3 | 19% | 1 hr 2 m | 2 | 0 | 0 | 1 | 0 | 0 |
| 1 Vehicle Crash | 1 | 6% | | 1 | 0 | 0 | 0 | 0 | 0 |
| Total | 16 | 100% | 1 hr 52 m | 7 | 1 | 0 | 4 | 0 | 4 |



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.

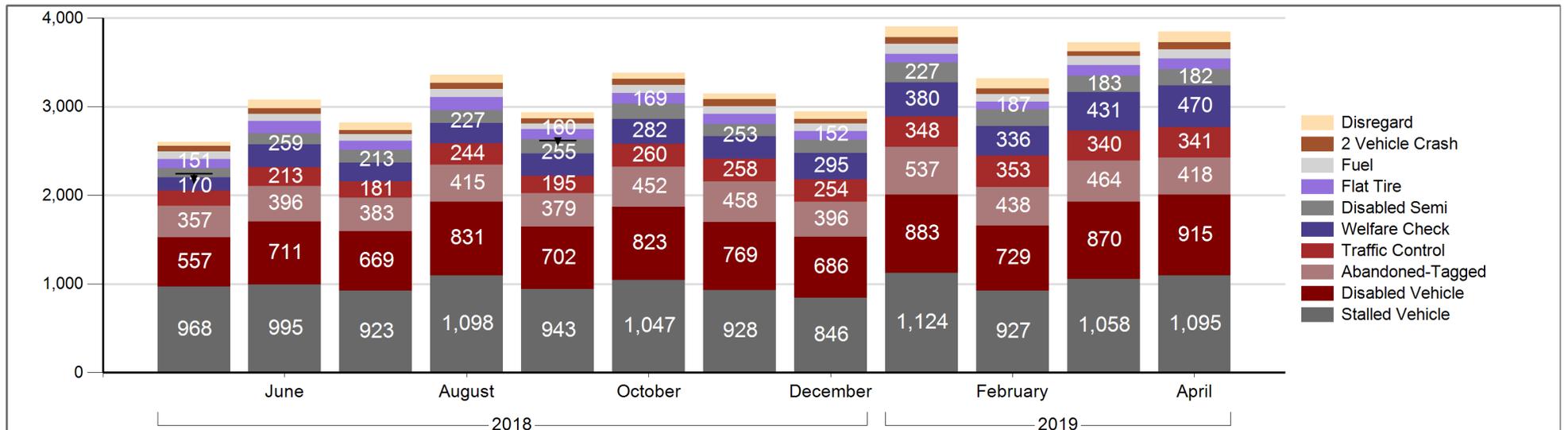
| Weekday | Total | % | Avg Impact | District 1 | District 2 | District 3 | District 4 | District 5 | District 6 |
|--------------|--------------|-------------|-----------------|--------------|------------|------------|------------|------------|------------|
| Monday | 595 | 20% | 1 hr 3 m | 263 | 31 | 8 | 92 | 16 | 181 |
| Tuesday | 577 | 19% | 55 min | 286 | 19 | 14 | 82 | 26 | 146 |
| Thursday | 537 | 18% | 10 hr 36 m | 227 | 32 | 14 | 73 | 25 | 158 |
| Wednesday | 471 | 16% | 44 min | 202 | 12 | 16 | 73 | 18 | 147 |
| Friday | 470 | 15% | 50 min | 199 | 26 | 21 | 64 | 20 | 132 |
| Saturday | 200 | 7% | 1 hr 1 m | 96 | 7 | 6 | 24 | 8 | 54 |
| Sunday | 187 | 6% | 6 hr 10 m | 86 | 14 | 6 | 23 | 5 | 51 |
| Total | 3,037 | 100% | 1 hr 3 m | 1,359 | 141 | 85 | 431 | 118 | 869 |



HIGHWAY HELPER RESPONSES

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

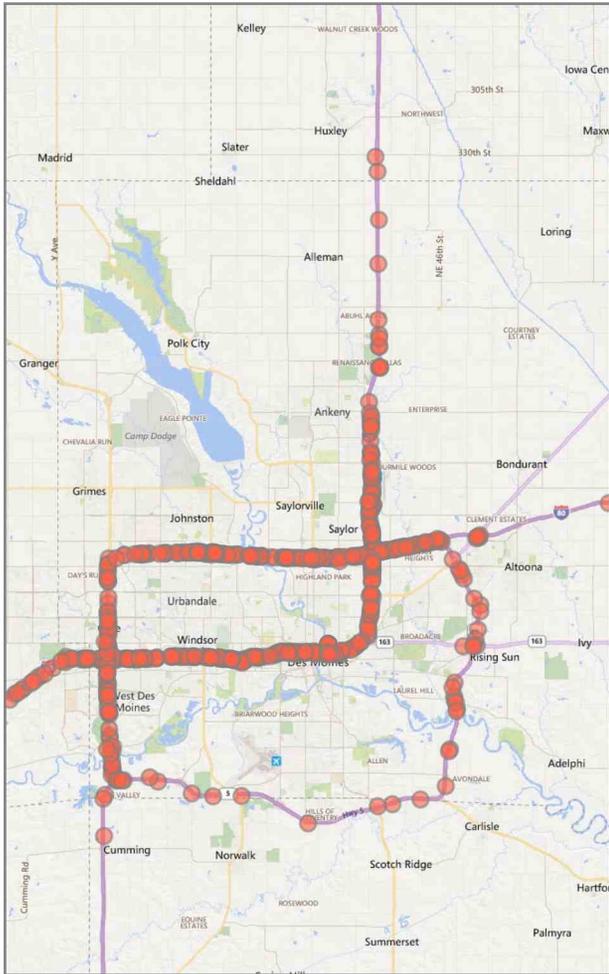
| Type | Total | % | Avg Impact | | Des Moines | Council Bluffs | Cedar Rapids / Iowa City |
|-------------------|--------------|-------------|---------------|--|--------------|----------------|--------------------------|
| Stalled Vehicle | 1,095 | 25% | 57 min | | 497 | 233 | 362 |
| Disabled Vehicle | 915 | 21% | 52 min | | 436 | 186 | 290 |
| Welfare Check | 484 | 11% | 25 min | | 175 | 126 | 183 |
| Abandoned-Tagged | 418 | 10% | 7 hr 25 m | | 219 | 56 | 139 |
| Traffic Control | 382 | 9% | 54 min | | 197 | 79 | 105 |
| Disabled Semi | 182 | 4% | 1 hr 1 m | | 63 | 46 | 73 |
| Flat Tire | 175 | 4% | 13 min | | 69 | 41 | 65 |
| Disregard | 127 | 3% | 21 min | | 69 | 14 | 44 |
| Fuel | 111 | 3% | 18 min | | 58 | 26 | 27 |
| 2 Vehicle Crash | 80 | 2% | 42 min | | 53 | 9 | 18 |
| Mechanical Repair | 72 | 2% | 13 min | | 32 | 13 | 27 |
| Debris | 67 | 2% | 13 min | | 48 | 4 | 15 |
| Total | 4,108 | 100% | 55 min | | 1,916 | 833 | 1,348 |



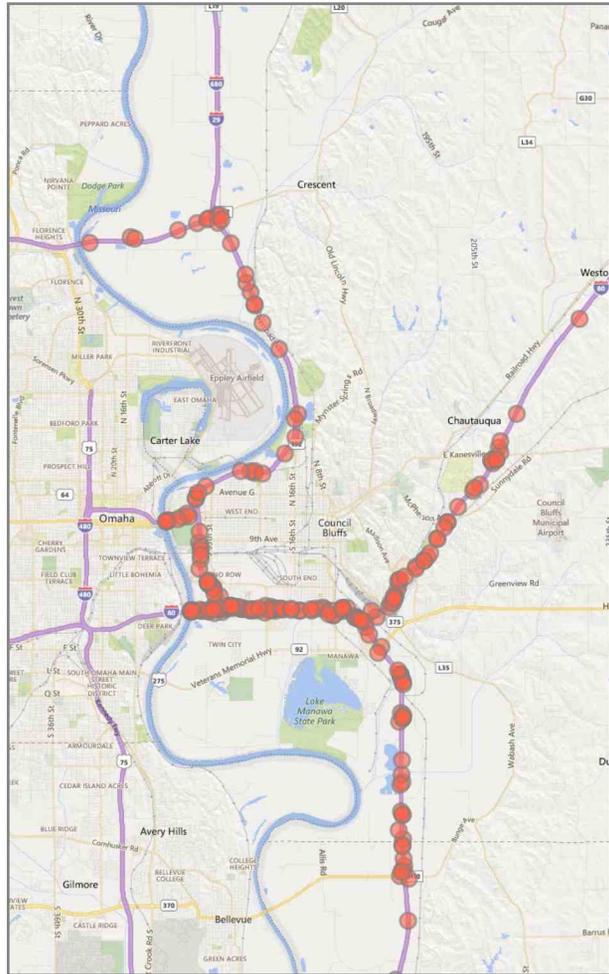
HIGHWAY HELPER ASSIST BY LOCATION

Highway Helper detected incidents and response locations.

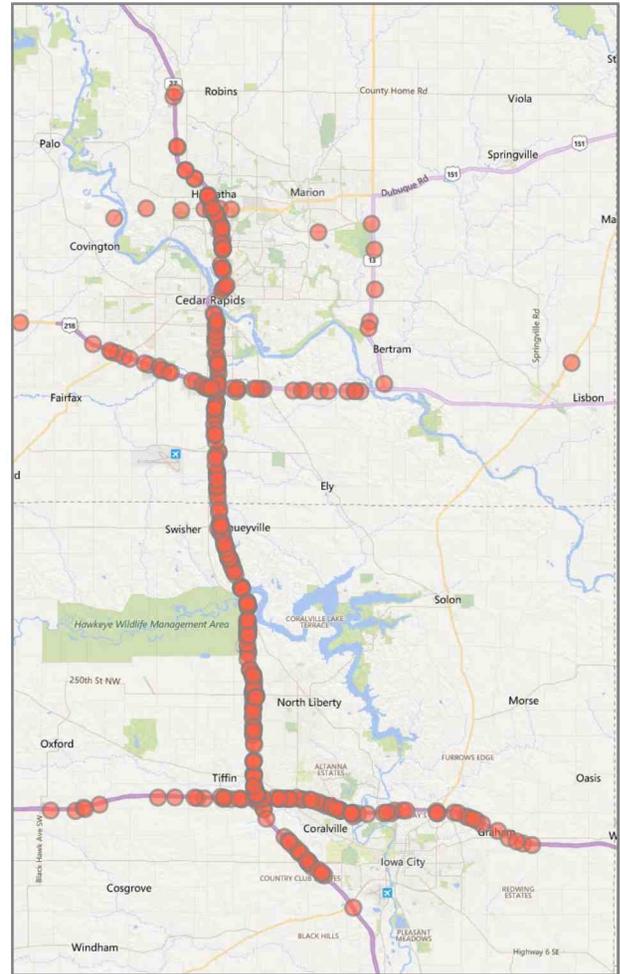
DES MOINES



COUNCIL BLUFFS



CEDAR RAPIDS / IOWA CITY

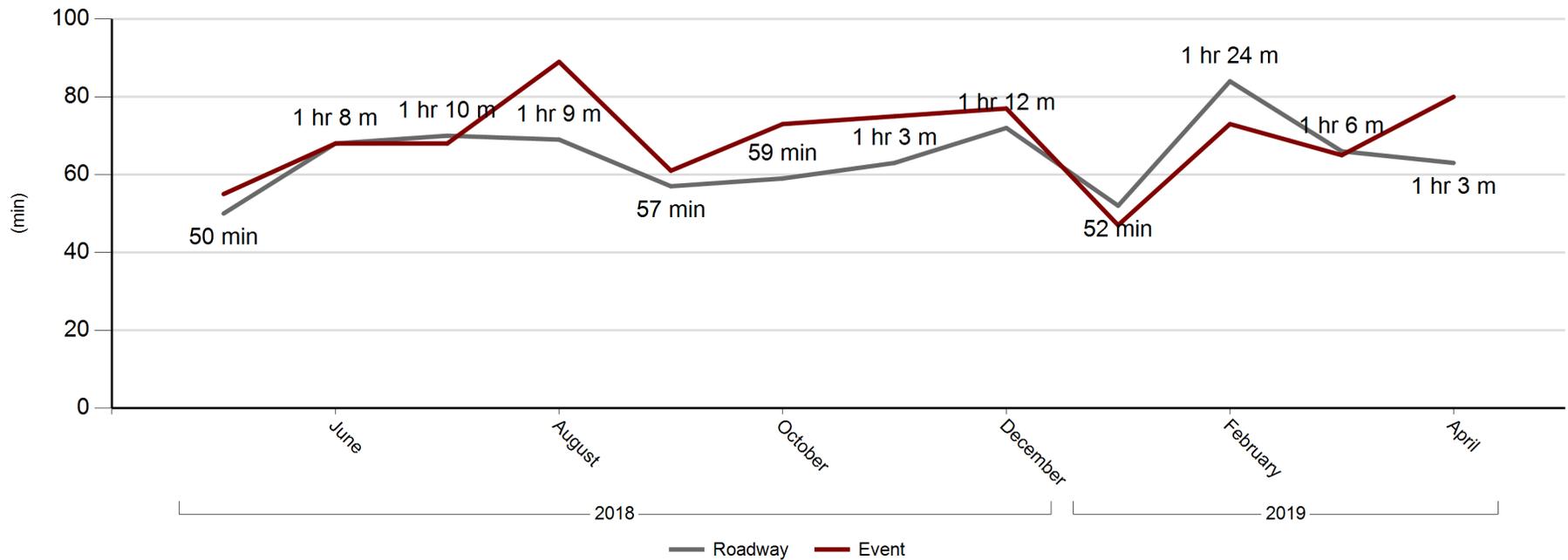


INCIDENT CLEARANCE TIMES (CRASHES ONLY)

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 | 1 hr 27 m | 1 hr 29 m | 56 min | 1 hr 38 m | 1 hr 5 m | 2 hr 6 m | 1 hr 30 m |
| | Federal | 1 hr 26 m | 55 min | 1 hr 15 m | 1 hr 38 m | 24 min | 1 hr 5 m | 2 hours |
| | Interstate | 1 hr 25 m | 1 hr 40 m | 42 min | 51 min | 1 hr 3 m | 2 hr 7 m | 1 hr 18 m |
| | State | 1 hr 44 m | 1 hr | 1 hr 26 m | 2 hr 41 m | 1 hr 59 m | 3 hr 6 m | 1 hr 18 m |
| Roadway | All | 1 hr 3 m | 50 min | 46 min | 1 hr 14 m | 1 hr 5 m | 1 hr 38 m | 1 hr 19 m |
| | Federal | 1 hr 17 m | 52 min | 1 hr 1 m | 1 hr 16 m | 24 min | 57 min | 1 hr 46 m |
| | Interstate | 54 min | 50 min | 40 min | 32 min | 1 hr 4 m | 52 min | 1 hr 6 m |
| | State | 1 hr 24 m | 46 min | 42 min | 2 hr 8 m | 1 hr 59 m | 3 hr 5 m | 1 hr 7 m |

All Roads (Interstate / Federal / State)

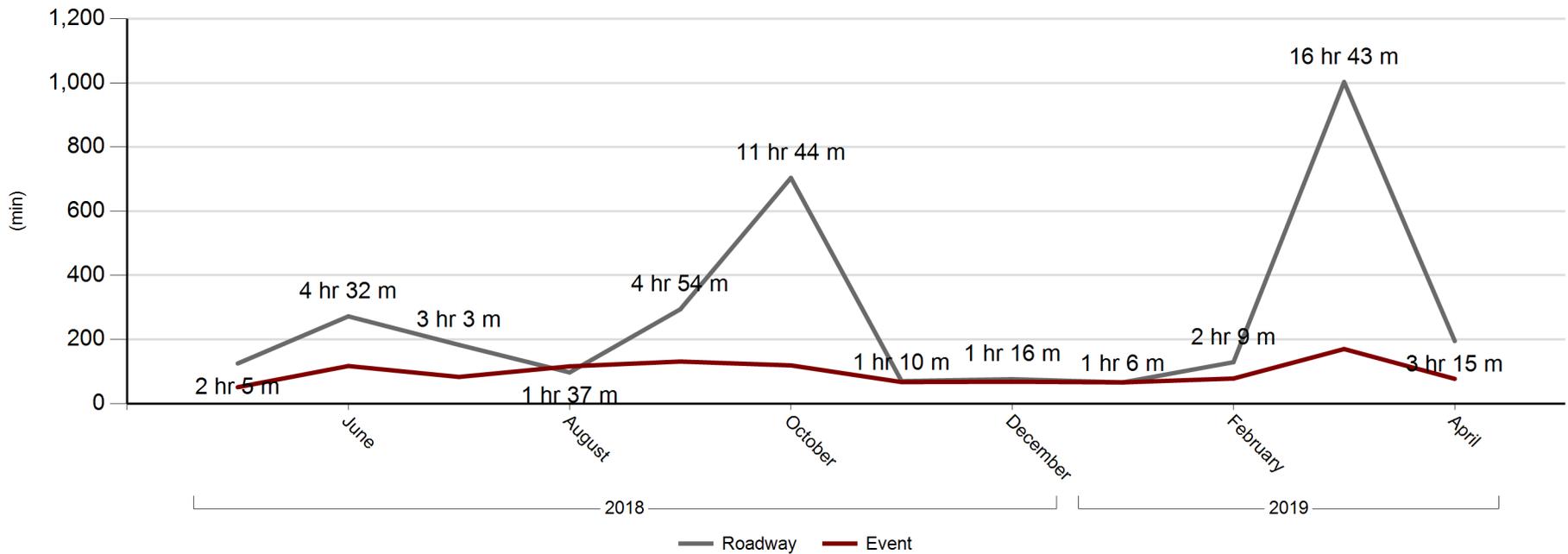


INCIDENT CLEARANCE TIMES (ALL TYPES)

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 | 1 hr 46 m | 1 hr 26 m | 1 hr 24 m | 1 hr 39 m | 1 hr 3 m | 8 hr 24 m | 1 hr 15 m |
| | Federal | 1 hr 25 m | 48 min | 2 hr 18 m | 2 hr 3 m | 24 min | 42 min | 1 hr 30 m |
| | Interstate | 1 hr 25 m | 1 hr 36 m | 42 min | 52 min | 1 hr 3 m | 3 hr 46 m | 1 hr 7 m |
| | State | 4 hr 31 m | 1 hr 1 m | 1 hr 27 m | 1 hr 42 m | 1 hr 59 m | 23 hr 5 m | 1 hr 9 m |
| Roadway | All | 3 hr 15 m | 51 min | 1 hr 6 m | 1 hr 24 m | 1 hr 1 m | 1 day 4 hr | 3 hr 11 m |
| | Federal | 1 hr 11 m | 39 min | 1 hr 56 m | 1 hr 40 m | 24 min | 25 min | 1 hr 13 m |
| | Interstate | 58 min | 55 min | 40 min | 30 min | 1 hr 1 m | 1 hr 56 m | 1 hr |
| | State | 15 hr 11 m | 44 min | 32 min | 1 hr 34 m | 1 hr 59 m | 3 days | 16 hr 27 m |

All Roads (Interstate / Federal / State)



INCIDENTS (CLEARANCE TIME DEVIATION)

| Type | Date / Time | Incident # | Highway | Fatality | Injury | Semi | Duration | Description |
|---|----------------|-----------------------|---------|----------|--------|------|-----------|---|
| 1 Vehicle Crash (Avg Impact : 1 hr 14 m) | | | | | | | | |
| | 04/30 09:02 AM | 85882 | I-280 | | | 1 | 2 hr 23 m | Initial report of a single vehicle crash on I-280 WB at Illinois MM 5 (near Milan). |
| | 04/28 04:22 PM | 85711 | US-61 | | 1 | | 2 hr 57 m | Initial report of a single vehicle crash on US-61 SB at MM 191 in Dubuque. |
| | 04/23 07:37 AM | 85123 | US-20 | | | 1 | 4 hr 22 m | Initial report of a single vehicle crash on US-20 EB at MM 163 (near Buckeye). |
| | 04/06 07:06 PM | 83472 | US-218 | | 1 | | 2 hr 51 m | Initial report of a single vehicle crash on US-218 SB at MM 90 (near Iowa City). |
| | 04/06 07:55 AM | 83453 | IA-5 | | 1 | | 4 hr 22 m | Initial report of a single vehicle crash on IA-5 SB at MM 66 (near Knoxville). |
| | 04/12 12:39 AM | 84019 | US-6 | 1 | | | 3 hr 23 m | Initial report of a single vehicle crash on US-6 WB at MM 263 (near West Liberty). |
| | 04/18 12:25 AM | 84621 | I-35 | | 1 | 1 | 4 hr 16 m | Initial report of a single vehicle crash on I-35 NB at MM 92 in Ankeny. |
| | 04/08 08:13 AM | 83548 | I-80 | | 1 | 1 | 3 hr 24 m | Initial report of a single vehicle crash on I-80 WB at MM 140 (near Altoona). |
| | 04/11 05:40 AM | 83890 | I-80 | | | 1 | 2 hr 24 m | Initial report of a single vehicle crash on I-80 EB at MM 27 (near Minden). |
| | 04/30 01:40 PM | 85906 | I-80 | | | 1 | 3 hours | Initial report of a single vehicle crash on I-80 WB at MM 301 in Bettendorf. |
| 2 Vehicle Crash (Avg Impact : 1 hr 2 m) | | | | | | | | |
| | 04/01 04:00 PM | 82926 | US-20 | 1 | | 1 | 3 hr 3 m | Initial report of a 2 vehicle crash on US-20 EB at MM 91 (near Jolley). |
| | 04/10 09:59 AM | 83792 | IA-86 | | | 2 | 2 hr 26 m | Initial report of a 2 vehicle crash on IA-86 at MM 4 in Wahpeton. |
| | 04/17 08:20 AM | 84536 | US-20 | | 1 | 1 | 5 hr 52 m | Initial report of a 2 vehicle crash on US-20 WB at MM 302 (near Epworth). |
| | 04/25 02:36 AM | 85340 | I-80 | | 2 | | 2 hr 54 m | Initial report of a 2 vehicle crash on I-80 WB at MM 236 (near Tiffin). |
| | 04/16 06:58 AM | 84384 | IA-1 | | 1 | | 2 hr 24 m | Initial report of a 2 vehicle crash on IA-1 NB at MM 91 (near Iowa City). |
| | 04/25 03:30 AM | 85341 | I-80 | | 1 | 2 | 5 hr 35 m | Initial report of a 2 semi crash on I-80 WB at MM 237 (near Tiffin). |
| | 04/27 01:47 PM | 85632 | I-235 | | 1 | | 3 hr 2 m | Initial report of a 2 vehicle crash on I-235 EB at MM 5 in Des Moines. |
| | 04/17 03:53 PM | 84579 | I-80 | | 1 | 1 | 2 hr 58 m | Initial report of a 2 vehicle crash on I-80 EB at MM 35 (near Shelby). |
| | 04/16 01:29 PM | 84443 | IA-60 | | 2 | 2 | 3 hr 16 m | Initial report of a 2 vehicle crash on IA-60 NB at MM 30 (near Sheldon). |
| 3+ Vehicle Crash (Avg Impact : 48 min) | | | | | | | | |
| | 04/25 08:08 AM | 85362 | I-80 | | 1 | 1 | 2 hr 41 m | Initial report of a 3+ vehicle crash on I-80 WB at MM 270 (near Wilton). |
| Debris (Avg Impact : 29 min) | | | | | | | | |
| | 04/11 01:26 PM | 83961 | IA-281 | | | | 2 hr 31 m | Initial report of a debris event on IA-281 at MM 15 (near Dunkerton). |

INCIDENTS (CLEARANCE TIME DEVIATION)

| Type | Date / Time | Incident # | Highway | Fatality | Injury | Semi | Duration | Description |
|---|----------------|-----------------------|---------|----------|--------|------|------------|---|
| Emergency Vehicles (Avg Impact : 2 hr 37 m) | | | | | | | | |
| | 04/18 04:41 PM | 84711 | IA-70 | | | | 3 days | Initial report of a sinkhole on IA-70 NB & SB at MM 25 in West Liberty. |
| Flooding (Avg Impact : 1 day 17 hr 5 m) | | | | | | | | |
| | 04/04 01:01 PM | 83270 | IA-22 | | | | 9 days | Initial report of a flooding event on IA-22 EB/WB at MM 82 (near Blue Grass). |
| Stalled Vehicle (Avg Impact : 50 min) | | | | | | | | |
| | 04/15 06:58 PM | 84362 | I-235 | | | | 13 hr 53 m | Initial report of a stalled vehicle on I-235 EB at MM 5 in Des Moines. |
| | 04/21 02:10 PM | 84944 | I-80 | | | | 5 hr 59 m | Initial report of a stalled vehicle on I-80 EB at MM 124 in Clive. |
| Vehicle Fire (Avg Impact : 1 hr) | | | | | | | | |
| | 04/08 01:12 AM | 83519 | I-35 | | | 1 | 2 hr 11 m | Initial report of a vehicle fire on I-35 SB at MM 51 (near St. Charles). |