



MAY 2017

This report contains statistical and operational data of activities at the Traffic Management Center(TMC) for the period Monday May 1st to Wednesday May 31st.

TRAFFIC MANAGEMENT CENTER

Executive Summary

TOTAL INCIDENTS

The total number of incidents during a given period. An incident is defined as any event on the roadway which affects or can affect normal traffic flow. (Excludes roadwork)

Previous Month	Current
April 2017 3249	May 2017 3451

INCIDENTS WITH LANE BLOCKAGE

The total number of incidents which resulted in at least one blocked lane of travel. (Excludes roadwork)

Previous Month	Current
April 2017 217	May 2017 242

MULTI-VEHICLE INCIDENTS

The total number of multi-vehicle incidents during this period. A multi-vehicle incident is defined as any type of collision between two or more vehicles on a roadway.

Previous Month	Current
April 2017 181	May 2017 164

AVERAGE TIME TO CLEAR LANES

The average time for all lanes to be cleared for an incident. The time is calculated from the incident start time until all lanes are reopened. (Excludes roadwork)

Previous Month	Current
April 2017 51 MIN.	May 2017 53 MIN.

SECONDARY INCIDENTS

A secondary incident is defined as a collision that occurs within the incident scene or within the queue resulting from the original incident.

Previous Month	Current
April 2017 8	May 2017 6

TOTAL HIGHWAY HELPER INCIDENT RESPONSES

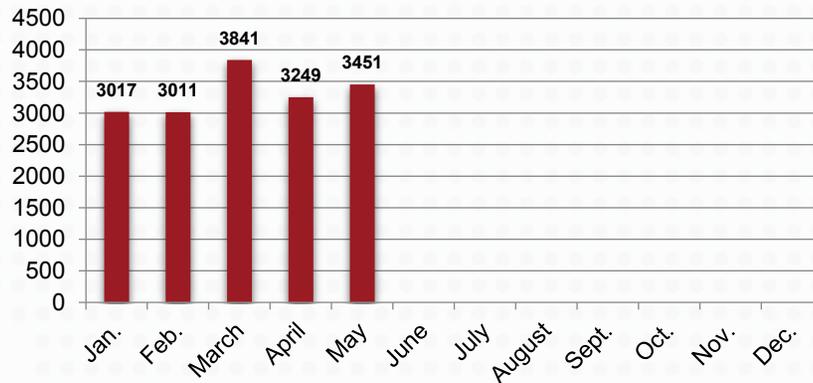
The total number of incidents Highway Helper responded to during the given period.

Previous Month	Current
April 2017 1458	May 2017 1418

TRAFFIC MANAGEMENT CENTER INCIDENT RESPONSE DASHBOARD

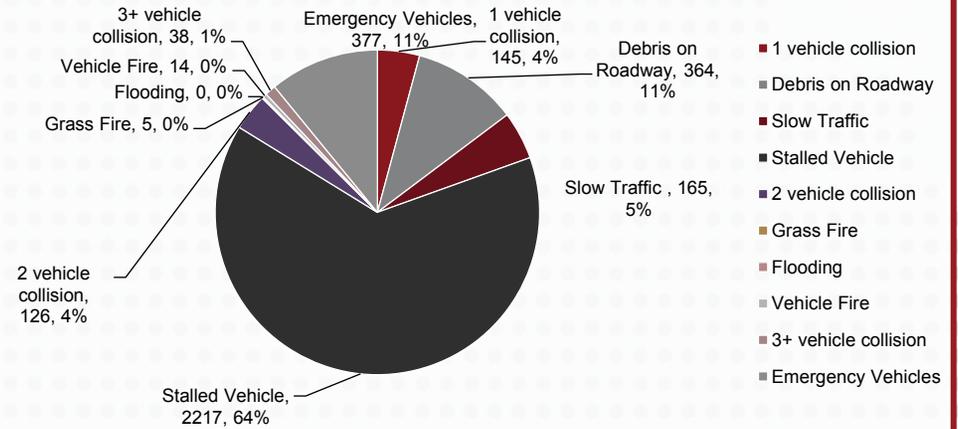
TOTAL INCIDENTS MANAGED BY THE TMC

The total number of incidents during a given period. An incident is defined as any event on the roadway which affects or can affect normal traffic flow.

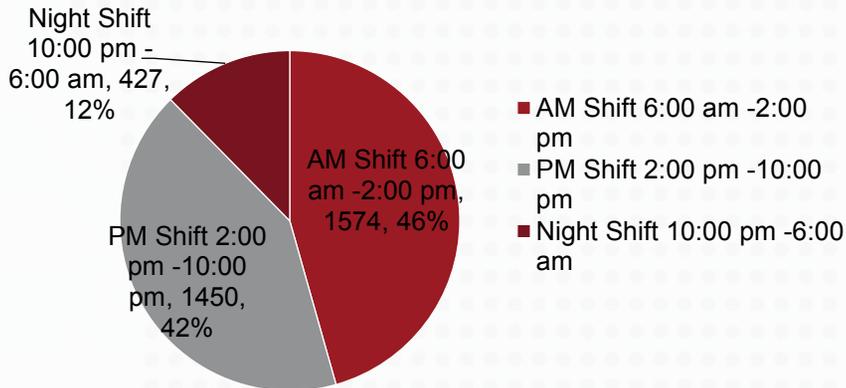


INCIDENT TYPES (3451)

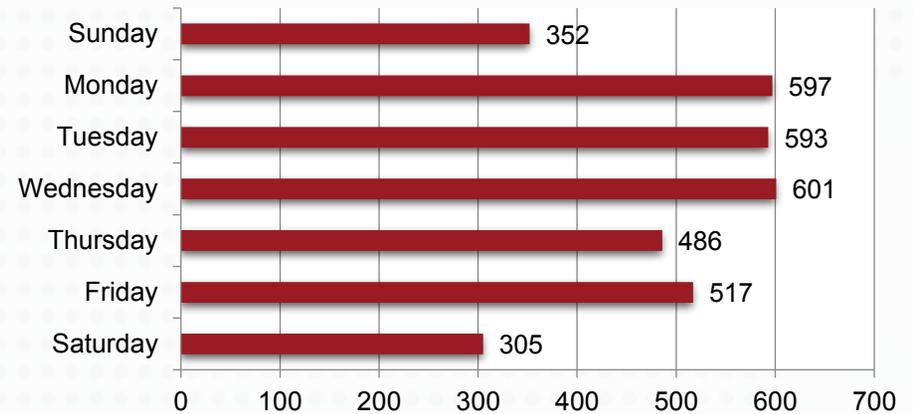
Represents the total amount of incidents categorized by Incident Type.



INCIDENTS MANAGED BY SHIFT (3451)



TOTAL INCIDENTS BY DAY OF THE WEEK (3451)



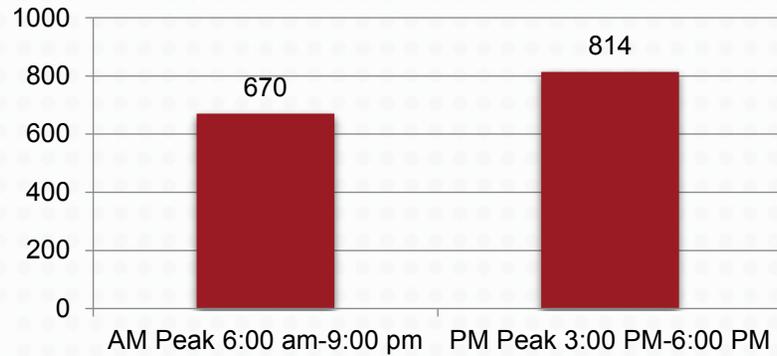
TRAFFIC MANAGEMENT CENTER INCIDENT RESPONSE DASHBOARD

INCIDENTS MANAGED DURING PEAK HOUR (1484)

(43% of Total Incidents)

Peak Hours is defined as:

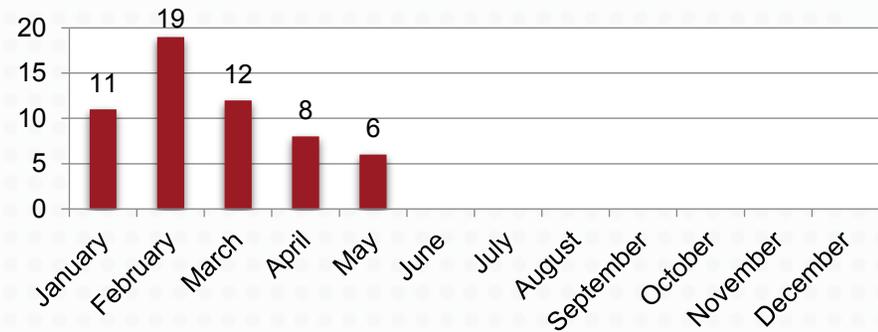
AM 6:00 am-9:00 am; PM 3:00 pm-6:00 pm



SECONDARY INCIDENTS

Secondary incidents can be more severe than the original incident, due to slow moving traffic or stopped queues on the roadway.

Six (6) incidents were classified as secondary.



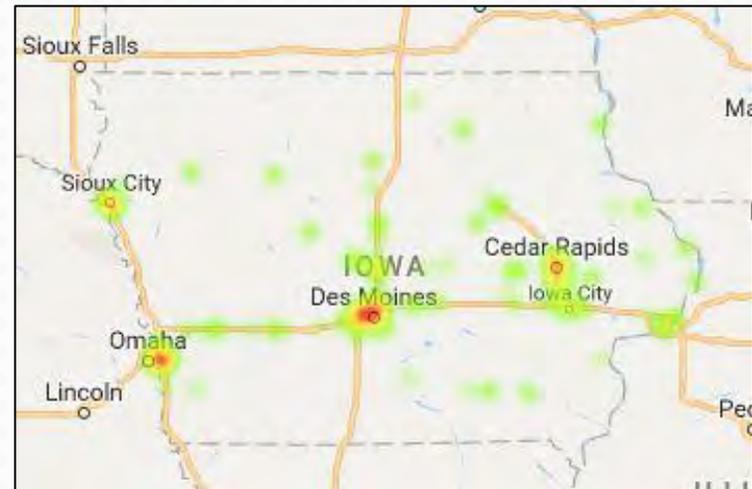
INCIDENTS BY LOCATION (EACH INCIDENT REPRESENTED BY ●)

242 Lane blocking incidents only - (excludes road work)



INCIDENT LOCATION DENSITY HEAT MAP

242 Lane blocking incidents only - (excludes road work)



TRAFFIC MANAGEMENT CENTER INCIDENT RESPONSE DASHBOARD

AVERAGE TIME TO CLEAR A LANE-BLOCKING INCIDENT (ALL ROUTES)

Calculated from the incident start time until all lanes are reopened.

The Desired Trend is to decrease the time to clear incidents with increased Traffic Incident Management collaboration.

“ROADWAY CLEARANCE TIME”

(All lanes are reopened)

53 MIN.

“EVENT” CLEARANCE TIME

(All responders have left the incident scene)

67 MIN.

AVERAGE TIME TO CLEAR A LANE-BLOCKING INCIDENT (URBAN) (INTERSTATES ONLY)

Calculated from the incident start time until all lanes are reopened.

The Desired Trend is to decrease the time to clear incidents with increased Traffic Incident Management collaboration.

“ROADWAY CLEARANCE TIME”

(All lanes are reopened)

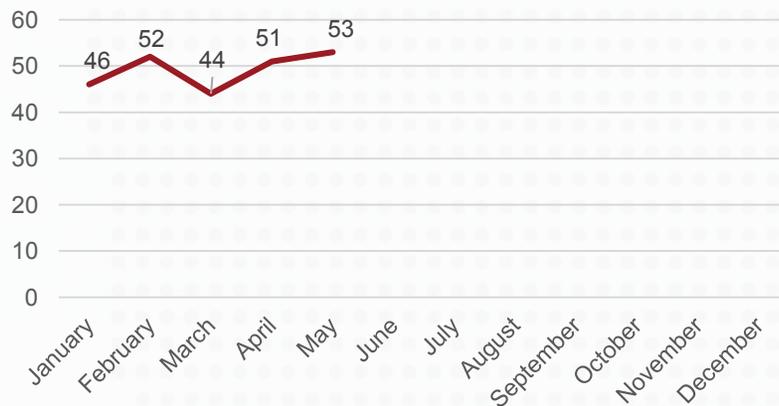
44 MIN.

“EVENT” CLEARANCE TIME

(All responders have left the incident scene)

60 MIN.

AVERAGE TIME TO CLEAR A LANE-BLOCKING INCIDENT (ALL ROUTES)



AVERAGE TIME TO CLEAR A LANE-BLOCKING INCIDENT (RURAL) (NON-INTERSTATE ROUTES)-IOWA NUMBERED STATES ROUTES, US HIGHWAYS

Calculated from the incident start time until all lanes are reopened.

The Desired Trend is to decrease the time to clear incidents with increased Traffic Incident Management collaboration.

“ROADWAY CLEARANCE TIME”

(All lanes are reopened)

70 MIN.

“EVENT” CLEARANCE TIME

(All responders have left the incident scene)

78 MIN.

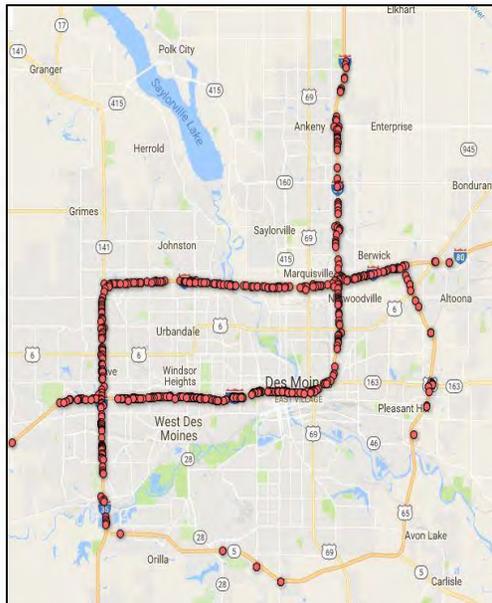
TRAFFIC MANAGEMENT CENTER INCIDENT RESPONSE DASHBOARD

HIGHWAY HELPER ASSIST BY LOCATION

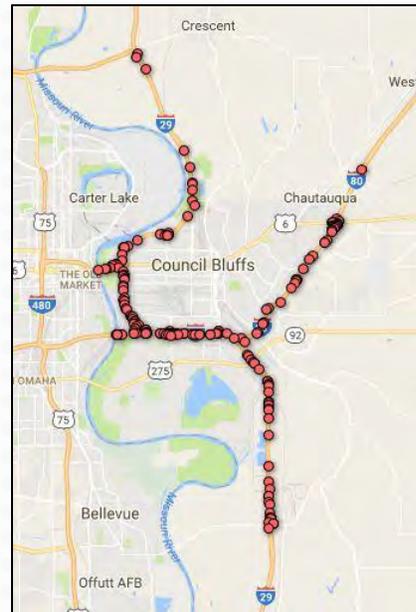
This represents the total amount of Highway Helper assists inputted into the ATMS system.

● = Highway helper detected incidents and response location.

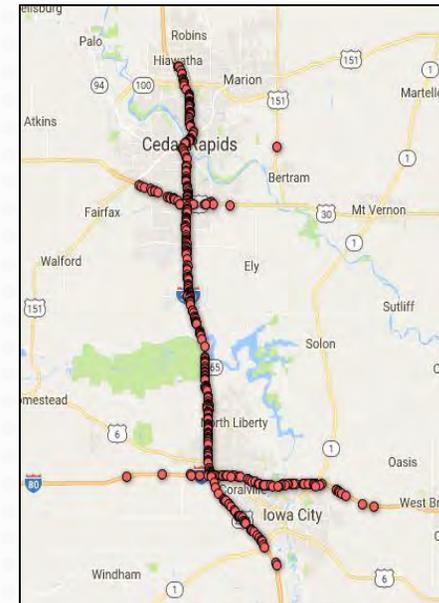
DES MOINES



COUNCIL BLUFFS

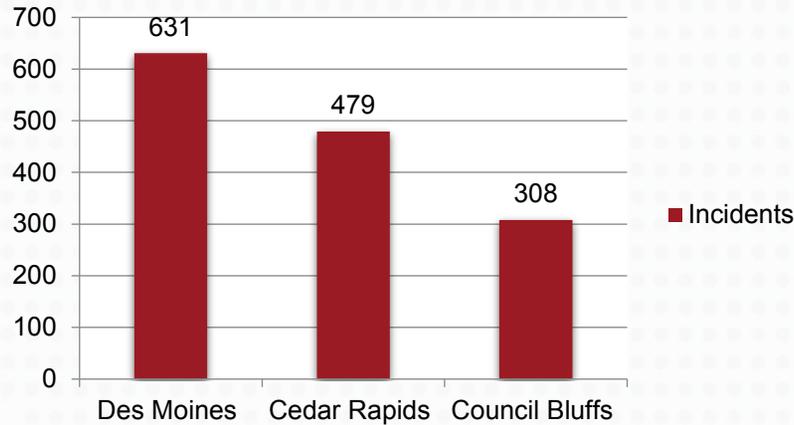


CEDAR RAPIDS/IOWA CITY

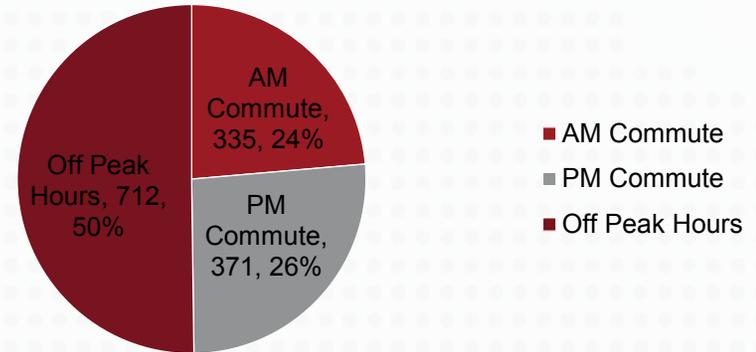


TRAFFIC MANAGEMENT CENTER INCIDENT RESPONSE DASHBOARD

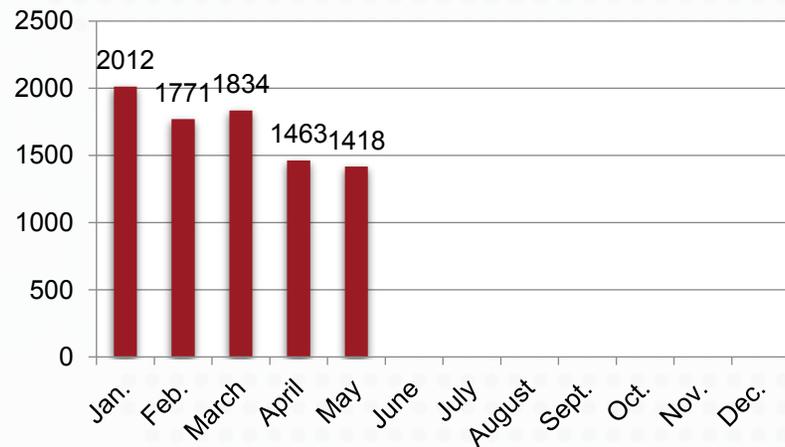
MONTHLY INCIDENTS RESPONDED TO BY AREA



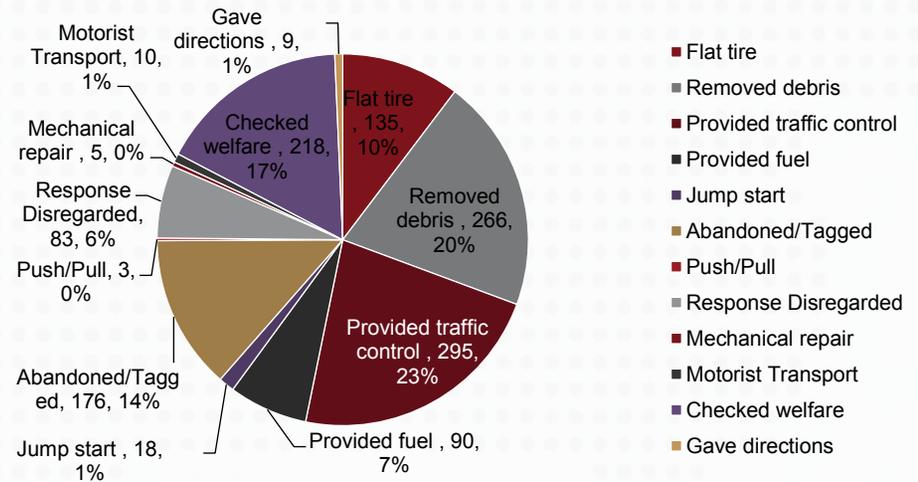
INCIDENT RESPONSE BY TIME OF DAY



TOTAL INCIDENTS RESPONDED TO BY HIGHWAY HELPER



HIGHWAY HELPER INCIDENT RESPONSE TYPE



TRAFFIC MANAGEMENT CENTER INCIDENT RESPONSE DASHBOARD

TOTAL PHONE COMMUNICATIONS BY THE TRAFFIC MANAGEMENT CENTER

This number represents all calls outgoing and incoming into the Traffic Management center

4290

TOTAL NUMBER OF EMERGENCY INCIDENT NOTIFICATIONS (EINS) DISTRIBUTED

(Statistic represents initial notification and doesn't represent updates.)

443

TOTAL NUMBER OF 511 ENTRIES MADE BY THE TRAFFIC MANAGEMENT CENTER

This number represents all entries and updates to 511 events (Includes roadwork)

1786

% OF INCIDENTS DETECTED BY TMC OPERATOR ON CCTV

(Desired Trend is to increase the amount of incidents located by operators through pro-active monitoring.)

58%

OPERATIONS STAFF SUMMARY

TMC Employee	# of Events entered in ATMS (Includes Roadwork)	# of EINS Created	Averaged Hours worked per week
Erik Castelline	897	43	40
Sarah Waters	748	25	40
Donovan Helm	224	17	40
Ellen Bonvillain	512	43	32
Tyrone Larry	363	20	40
Pennylee Harris	632	68	40
Andrew Gunn	601	52	40
Tommy Howard	379	51	40
Loney Baugher	253	37	40
Sydney Link	1438	30	40
Chase Junk	220	38	40
Nick Glenn	203	19	32
Highway Helper	191	N/A	N/A
TOTAL	6661		

ON-RAMP TICKETS CREATED BY TMC OPERATORS

TMC Employee	# of On-Ramp Tickets
Erik Castelline	3
Sarah Waters	3
Donovan Helm	1
Ellen Bonvillain	0
Tyrone Larry	30
Pennylee Harris	3
Andrew Gunn	20
Tommy Howard	0
Loney Baugher	6
Sydney Link	0
Chase Junk	12
Nick Glenn	16
TOTAL:	94

TRAFFIC MANAGEMENT CENTER INCIDENT RESPONSE DASHBOARD

OPERATOR TRAINING

On-going Training

- Construction and Maintenance

On-boarding Process and New Hire Training

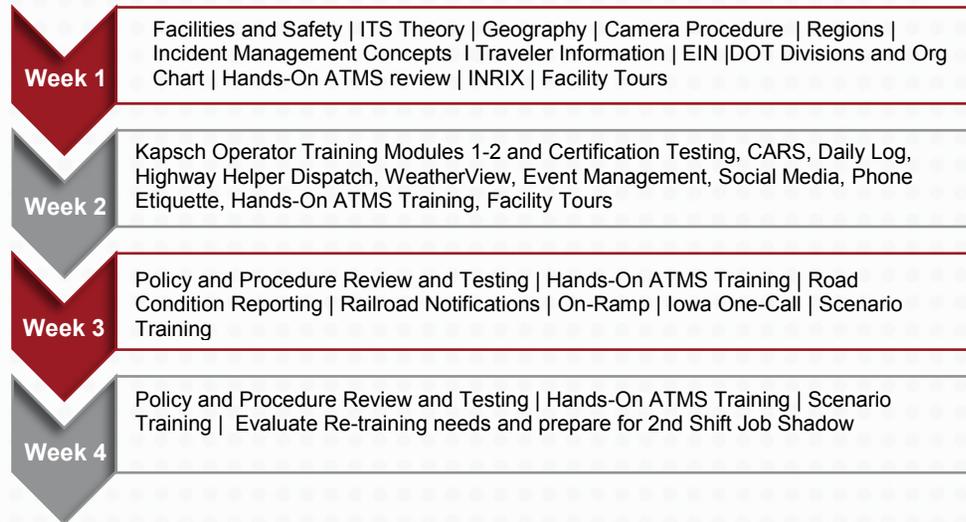
- On-boarding and training of Clay Harris

Staffing Update

The current staffing levels are:

- Operations/Project Manager
- Thirteen (12) Full Time Operators, one (1) Trainee

Modified 4 Week On-Boarding



AM Operators (6:00 am-2:30 pm)
Sarah Waters
Andrew Gunn
Sydney Link
Tommy Howard
Loney Baugher

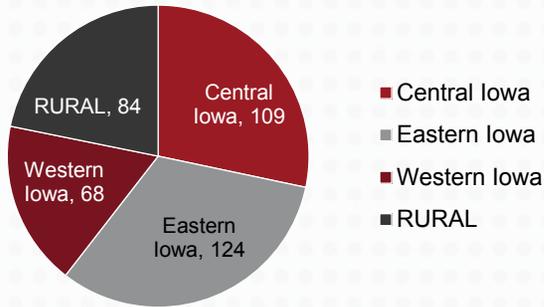
PM Operators (2:00 pm-10:30 pm)
Erik Castelline
Ellen Bonvillain
Pennylee Harris
Chase Junk

3rd Shift / Overnight (10:00 pm-6:30 am)
Donovan Helm
Tyrone Larry
Nick Glenn

Trainees
Clay Harris

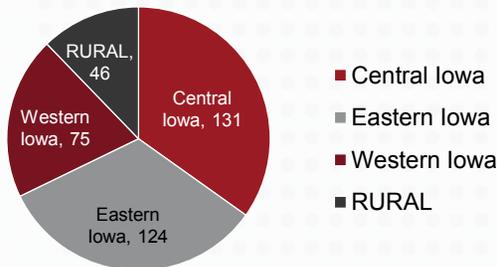
TRAFFIC MANAGEMENT CENTER INCIDENT RESPONSE DASHBOARD

ALL IOWA CAMERAS



Total Cameras: 385

ALL IOWA SENSORS



Total Sensors: 376

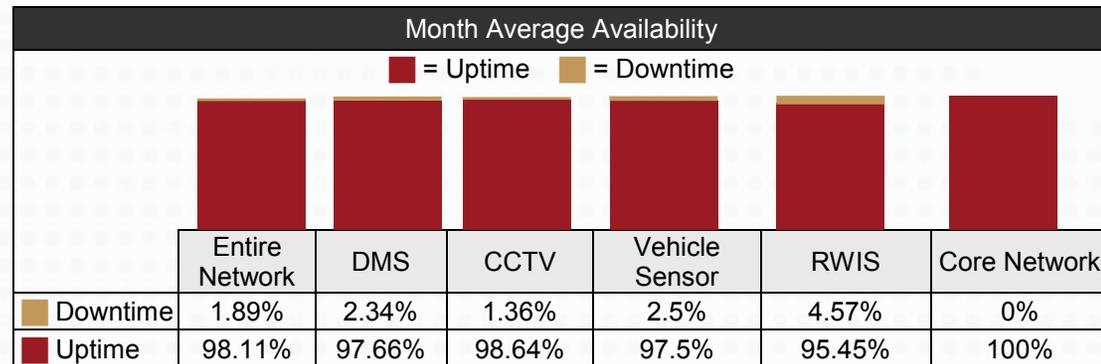
Year	Project	Description
1992-97	Initial Urban Area use of DMS	16 locations in Cedar Rapids, Des Moines and Quad Cities
2002	Iowa's 511 system Launched	
2003-05	I-235 Reconstruction-Des Moines	DMS, HAR, CCTV, and Detection. Highway Helpers
2005	First Statewide Deployment of DMS	13 locations
2006-08	I-80-Iowa City	DMS, HAR, CCTV, and Detection
2006-08	I-74-Bettendorf to Moline	DMS, HAR, CCTV, and Detection
2008	I-380 Extension	DMS, CCTV, and Detection
2008	TMC starts 24/7 Operations	
2009-11	Council Bluffs Reconstruction	DMS, HAR, CCTV, and Detection
2009-11	Sioux City Reconstruction	DMS, HAR, CCTV, and Detection
2012-13	I-380/US 20 Waterloo Reconstruction	DMS, CCTV, and Detection
2012	I-35/US 30 Ames	DMS, CCTV, and Detection
2012	I-380 Cedar Rapids	DMS, CCTV, and Detection
2012	I-80 Davenport	DMS, CCTV, and Detection
2012	Office of Traffic Operations Created	TSMO activities previously spread across organization in Research and Maintenance Offices
2013	I-80 Newton	DMS, CCTV, and Detection
2014-15	Fiber Construction from Ames to Des Moines to Iowa City to Cedar Rapids	Partnership with Iowa Communications Network (ICN)
2014	Statewide use of Probe Data	Data subscription service for link level travel speeds – supports enhanced monitoring of intercity corridors
2015	Highway Helpers Service-Council Bluffs and Cedar Rapids/Iowa City	Expansion of service from Des Moines area to other metro areas
2015	TMC Relocation from Ames to Ankeny	Relocation to a new, larger space in the MVD Building
2015	TSMO Strategic and Program Plans	
By 2022	Council Bluffs Interstate Reconstruction	New Color DMS, CCTV, RWIS, and Detection
By 2024	I-74 Mississippi River Bridge Replacement	Arterial DMS, CCTV, Fiber, and Detection

TRAFFIC MANAGEMENT CENTER INCIDENT RESPONSE DASHBOARD

Digital Traffic Systems Inc. – Monthly ITS Maintenance Overview



Device Type	Count (Active Sites)
CCTV	358
DMS – Overhead	76
DMS – Portable	82
DMS – Rest Area	34
DMS – Sidemount	54
Vehicle Sensors	305
RWIS	71
Grand Total	980



	Corrective Maintenance	Preventative Maintenance*
Open	3	1.70%
Closed	149	86.40%
Cancelled	5	6.80%
On-Hold	23	4.50%
Rejected	1	0.60%
Totals	181	

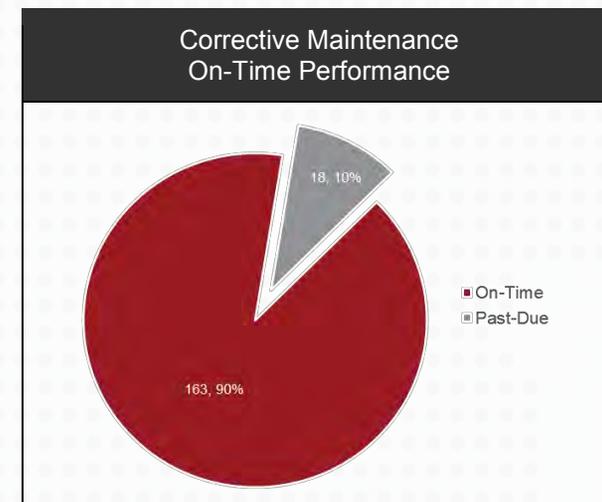
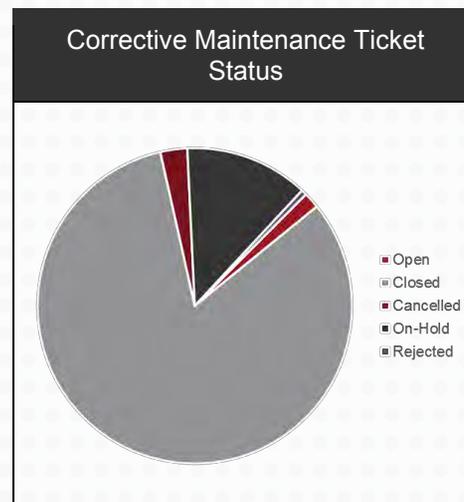
Past-Due	9.94%
On-Time	90.06%

*A bug in OnRamp created duplicate Preventive Maintenance tickets in the system, so the statistical data was not available this month.

Average availability: Refers to the ability to communicate with a particular device.

Corrective Maintenance: Refers to when a device is not working properly and DTS is required to fix it,

Preventative Maintenance: is track to verify that DTS is meeting the requirements for scheduled maintenance.



*This page was created by DTS Inc. If you have any questions regarding or would like the full ITS monthly report or any other issues related to the ITS network contact Tony Taylor in Traffic Operations.

TRAFFIC MANAGEMENT CENTER INCIDENT RESPONSE DASHBOARD

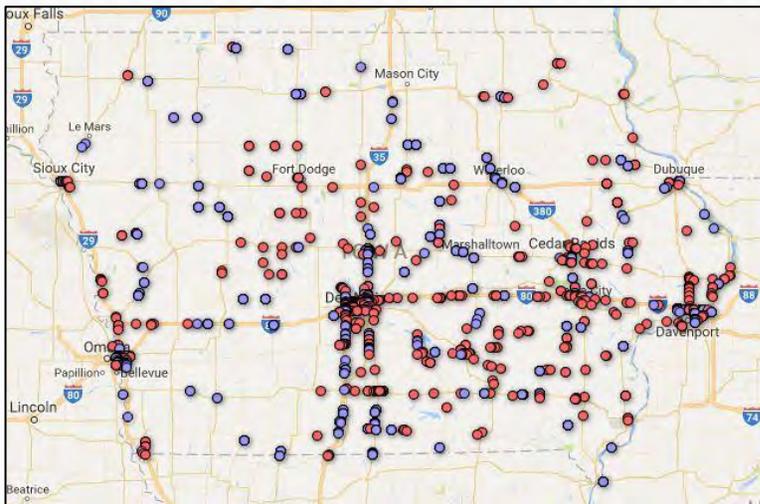
TRAFFIC CRITICAL PROJECTS	
Number of Active Traffic Critical Projects	Number of Traffic Critical Projects with Intelligent Work Zones or Traffic Incident Management
(Data Source https://sites.google.com/site/iowatcp/tcp-list)	(60% of Total Ongoing TC Projects) (Data Source https://sites.google.com/site/iowatcp/tcp-list)
30	18

CONSTRUCTION AND MAINTENANCE
Number of Work Zones entered into the ATMS, (Includes all roadwork, short term maintenance and construction projects)
(Represents 48% of total events entered into the ATMS for May)
3210

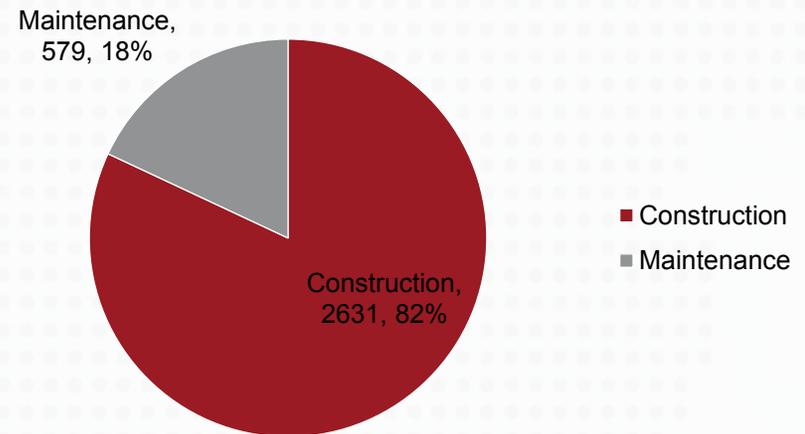
WORK ZONE CRASHES
Number of Crashes in Work Zones
5

LOCATIONS OF WORK ZONES ENTERED INTO THE ATMS

- Construction Work Zones entered by TMC (2631 of 3210)
- Maintenance Work Zones entered by TMC (579 of 3210)



WORK ZONES BY TYPE ENTERED INTO THE ATMS



TRAFFIC MANAGEMENT CENTER INCIDENT RESPONSE DASHBOARD

Message Mondays

Message Monday is a safety initiative to increase public awareness of traffic deaths on Iowa's roadways. The message contains the aggregate number of traffic fatalities that have occurred since the start of the calendar year and a safety related message. **Iowa's goal is zero fatalities.**

May's Message Monday:

The Message Monday messages are displayed on 74 overhead DMS and 36 Rest Area DMS.

Zero Fatalities[®]
 A Goal We Can All Live With

MAY 1

88
 TRAFFIC DEATHS
 THIS YEAR
 MAY DAY!
 MAY DAY!
 PUT THE PHONE AWAY

MAY 8

89
 TRAFFIC DEATHS
 THIS YEAR
 DON'T MAKE A
 HOG SQUEAL
 LOOK FOR BIKES

MAY 15

93
 TRAFFIC DEATHS
 THIS YEAR
 JUST LIKE MOM HUGS
 SEAT BELT HUGS
 SAVE LIVES

MAY 22

104
 TRAFFIC DEATHS
 THIS YEAR
 PERFORM BEST
 UNDER PRESSURE?
 YOUR TIRES DON'T

MAY 29

107
 TRAFFIC DEATHS
 THIS YEAR
 FREEDOM ROCKS
 WHEELS ROLL
 DON'T LOSE CONTROL

TRAFFIC MANAGEMENT CENTER INCIDENT RESPONSE DASHBOARD



Traveler Information
www.511ia.org or dial 511

TRAVELER INFORMATION

Traffic Management center activated **1,156** message boards in May 2017. (This number does not reflect Public Safety Announcements or TIS scheduled messages.)

Total number of calls to 511 in May 2017	Total Visits to 511 Traveler Information Website (Includes all versions of website)
6,735	69,938