



# ST. LOUIS DISTRICT MOBILITY

BI-MONTHLY REGIONAL MOBILITY REPORT ■ JANUARY / FEBRUARY 2018 | EDITION NO. 02

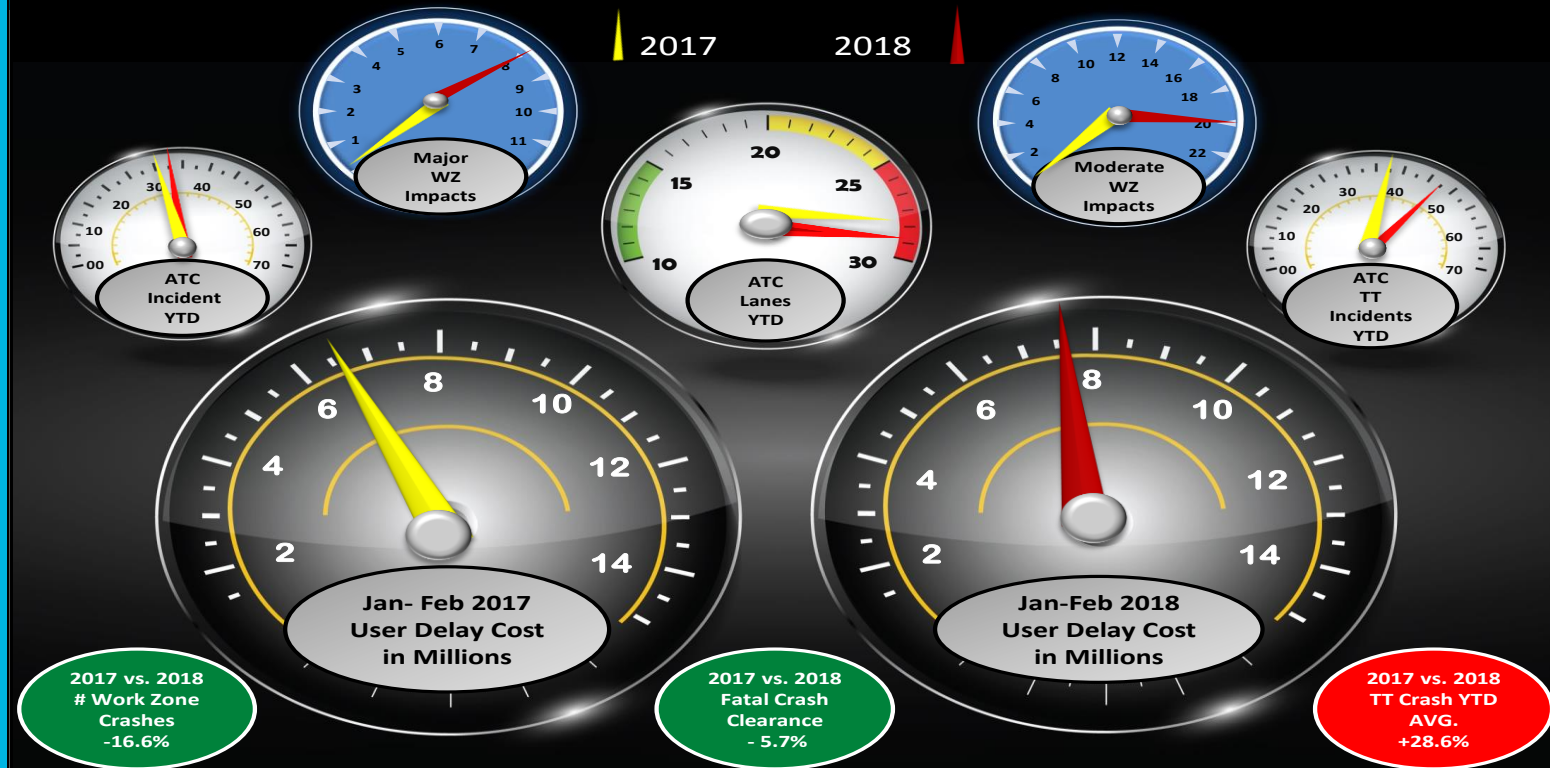
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User Delay Cost: Passenger Vehicle \$17.67 Commercial Vehicle \$68.09  
Sources Texas Transportation Institute & American Transportation Research Institute

### January thru February 2017 Grand Total and Average

<b>Delay cost:</b>	<b>Vehicle Miles traveled (VMT)</b>
Total \$6,563,832.43 Per VMT \$0.00	Total: 1,414,303,554 miles
<b>Hours of delay:</b>	Passenger: 1,272,873,198 miles
Person-hours: 301,287h 50m 48s	Commercial: 141,430,355 miles
Vehicle hours: 245,949h 15m 45s	Delay per VMT: 0.0104 mins/mile

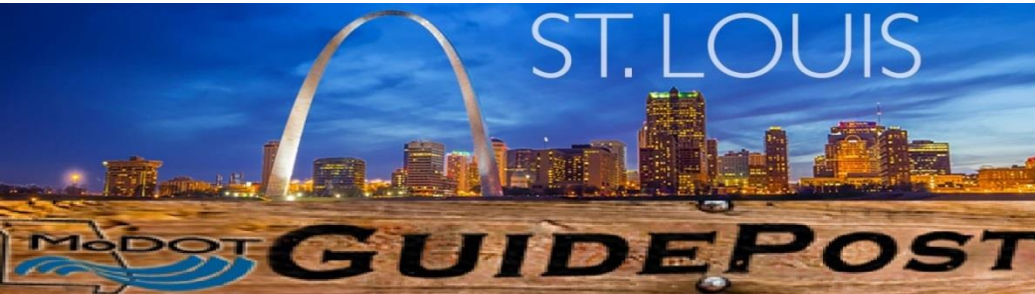
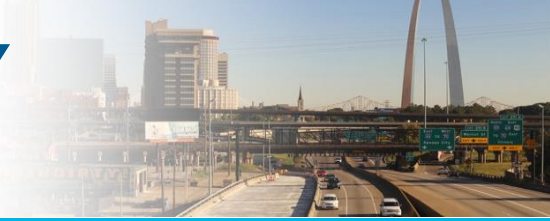
### January thru February 2018 Grand Total and Average

<b>Delay cost:</b>	<b>Vehicle Miles traveled (VMT)</b>
Total \$7,554,056.37 Per VMT \$0.01	Total: 1,416,925,025 miles
<b>Hours of delay:</b>	Passenger: 1,275,232,522 miles
Person-hours: 346,740h 19m 22s	Commercial: 141,692,502 miles
Vehicle hours: 283,053h 19m 29s	Delay per VMT: 0.012 mins/mile



# EXECUTIVE SUMMARY

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## ZONING IN

New Freeway Mobility Reporting Detailed For I-270 Corridor

Average Time To Clear Lanes Increased From A Year Ago

There Were 13 Fatal Crashes In January and 1 In February

Work Zone Delays Confined To Poplar Street Bridge work

EB I-64 @ I-70/I-55/US 40 Moved Up A Spot From # 2 in 2017 To # 1 On Top 5 Congestion Spots For January/February 2018

TMS Work Zones:  
January 2018: 203  
February 2018: 228

Work Zone Impact Breakdown:

■	Major:	8 – 0.9%
■	Moderate:	20 – 7.3%
■	Minor:	343 – 91.8%

**WORK ZONE CRASHES: 5**

## Most Significant Impact Events

### Planned Event

**Dates:**1-1 – 2-28

**Location:** Eastbound I-64 – Poplar Street Bridge **Event Detail:** Bridge work 3 right lanes closed 25 minutes of additional travel time during non-peak period

### Unplanned Event

**Date:**1-23

**Location:** Eastbound I-64 before I- 270 **Event Detail:** Fatal Multi-vehicle crash involving a small car cutting in front of a tractor trailer causing a 6 car chain reaction crash



# EXECUTIVE SUMMARY

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## Top 5 Congestion Locations / January – February 2017 vs. 2018

	Congestion Locations 2017	*Base Impact	Average Queue Length Miles	Average Daily Duration	Total Duration
1	SB I-170 @ Galleria Parkway	11,684.09	1.47	2h 04 m	5d 02h 29m
2	EB I-64 @ I-70/I-55/US40	11,369.74	2.04	1h 36m	3d 22h 44m
3	SB I-270 @ MO100 Manchester Road	11,161.38	1.45	2h 07m	5d 05h 36m
4	EB I-64 @ Big Bend Boulevard	10,419.55	2.91	0h 55m	2d 06h 49m
5	WB I-64 @ Clayton Ave / Oakland Ave	10,292.54	2.29	1h 17m	3d 04h 31m

Locations ranked on \*Base Impact (The aggregation of Queue Length over time for congestion originating at each location in mile minutes)

	Congestion Locations 2018	*Base Impact	Average Queue Length Miles	Average Daily Duration	Total Duration
1	EB I-64 @ I-70/I-55/US40	21,484.02	1.32	4h 29m	11d 00h 39m
2	WB I-64 @ Clayton Ave / Oakland Ave	9,960.02	2.11	1h 23m	3d 09h 57m
3	EB I-64 @ Big Bend Boulevard	9,540.95	2.95	0h 51m	2d 02h 33m
4	SB I-170 @ I-64/US 40/Eager Road	7,630.57	1.20	2h 12m	5d 09h 58m
5	EB I-270 @ US 67/Lindbergh Boulevard	7,612.99	0.74	2h 53m	7d 02h 58m

Locations ranked on \*Base Impact (The aggregation of Queue Length over time for congestion originating at each location in mile minutes)

## Average Incident Duration Comparison / 2017 vs. 2018

Month	Average Incident Duration (Minutes : Seconds)	2017	2018
January	Lane Clearance	27:39	28:41
February	Lane Clearance	25:52	26:17
January	Incident Clearance	32:06	33:20
February	Incident Clearance	29:06	31:35



# FREEWAY MANAGEMENT

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**Overall AM Regional Mobility DECREASED**

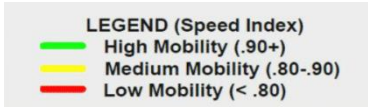
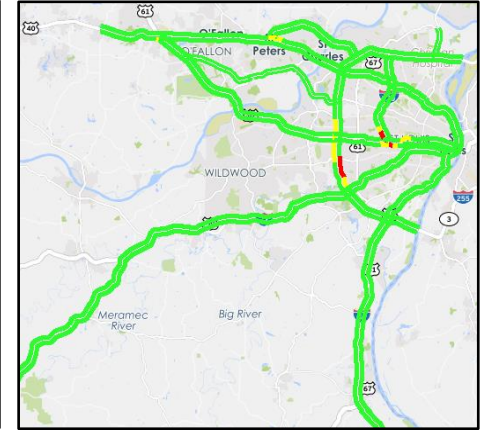
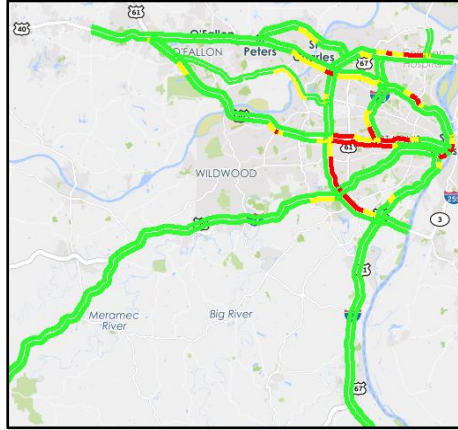
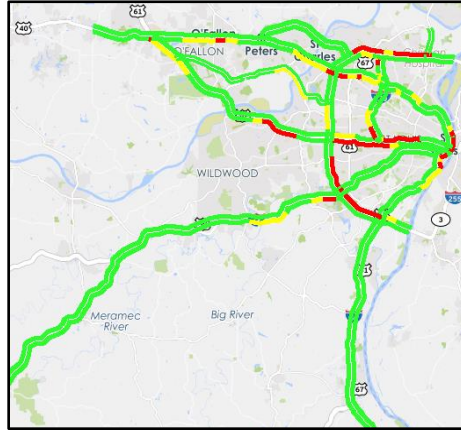
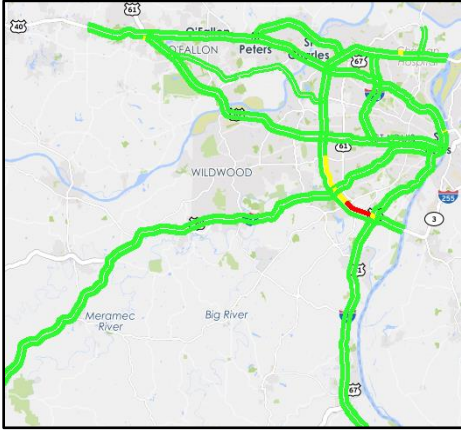
## AM Peak Period Mobility January/February 2017

6 am – 7 am

7 am – 8 am

8 am – 9 am

9 am – 10 am



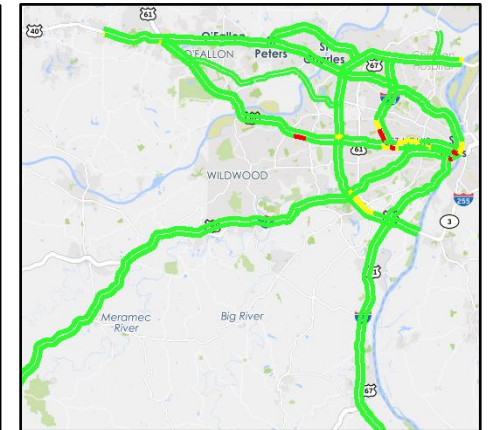
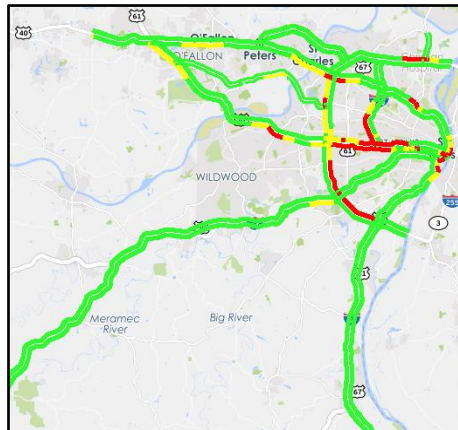
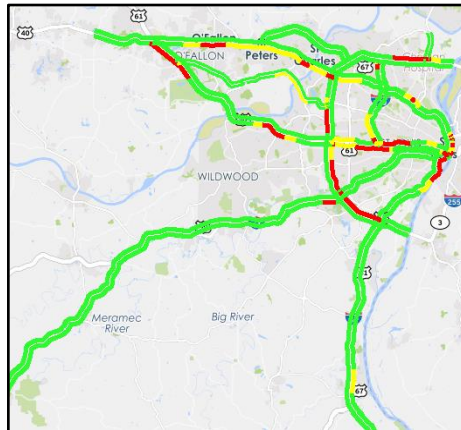
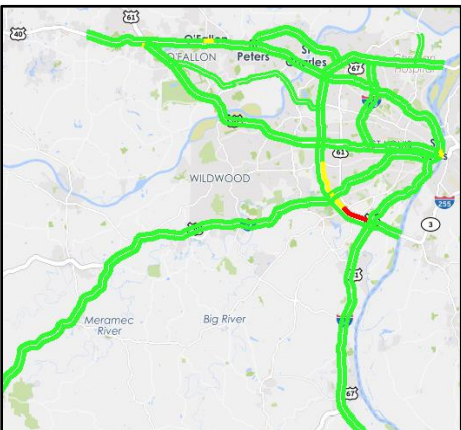
## AM Peak Period Mobility January/February 2018

6 am – 7 am

7 am – 8 am

8 am – 9 am

9 am – 10 am





## Highlighted Corridor

I-270

Comparing AM January/February 2017 to AM January/February 2018

AM Northbound I-270 Mobility DECREASED 2017 → 2018

AM Southbound I-270 Mobility INCREASED 2017 → 2018



# FREEWAY MANAGEMENT

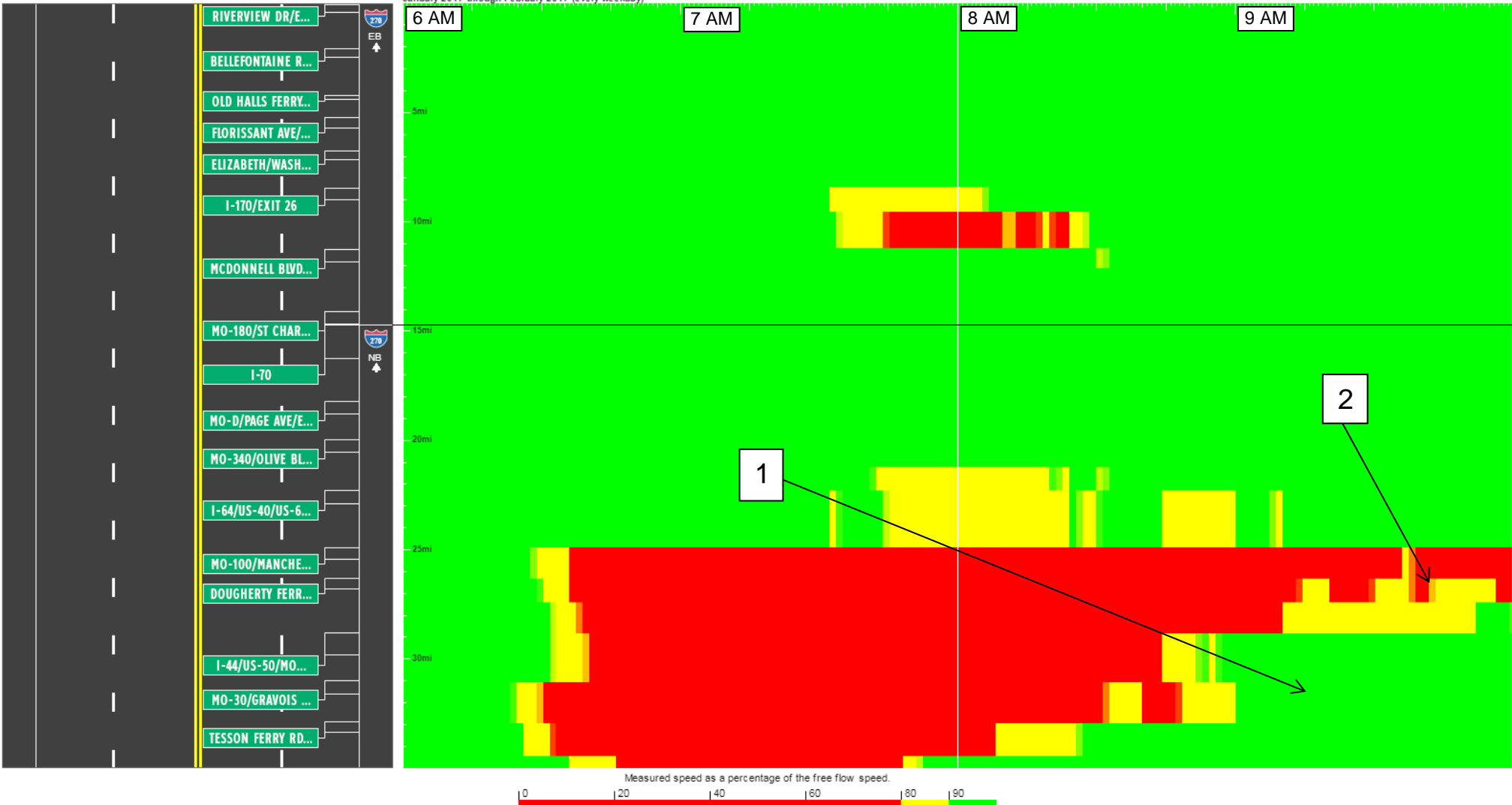
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## AM Northbound/Eastbound 2017

Congestion on I-270 Eastbound and I-270 Northbound using HERE data

Averaged by 2 minutes for January 2017 through February 2017 (every weekday)

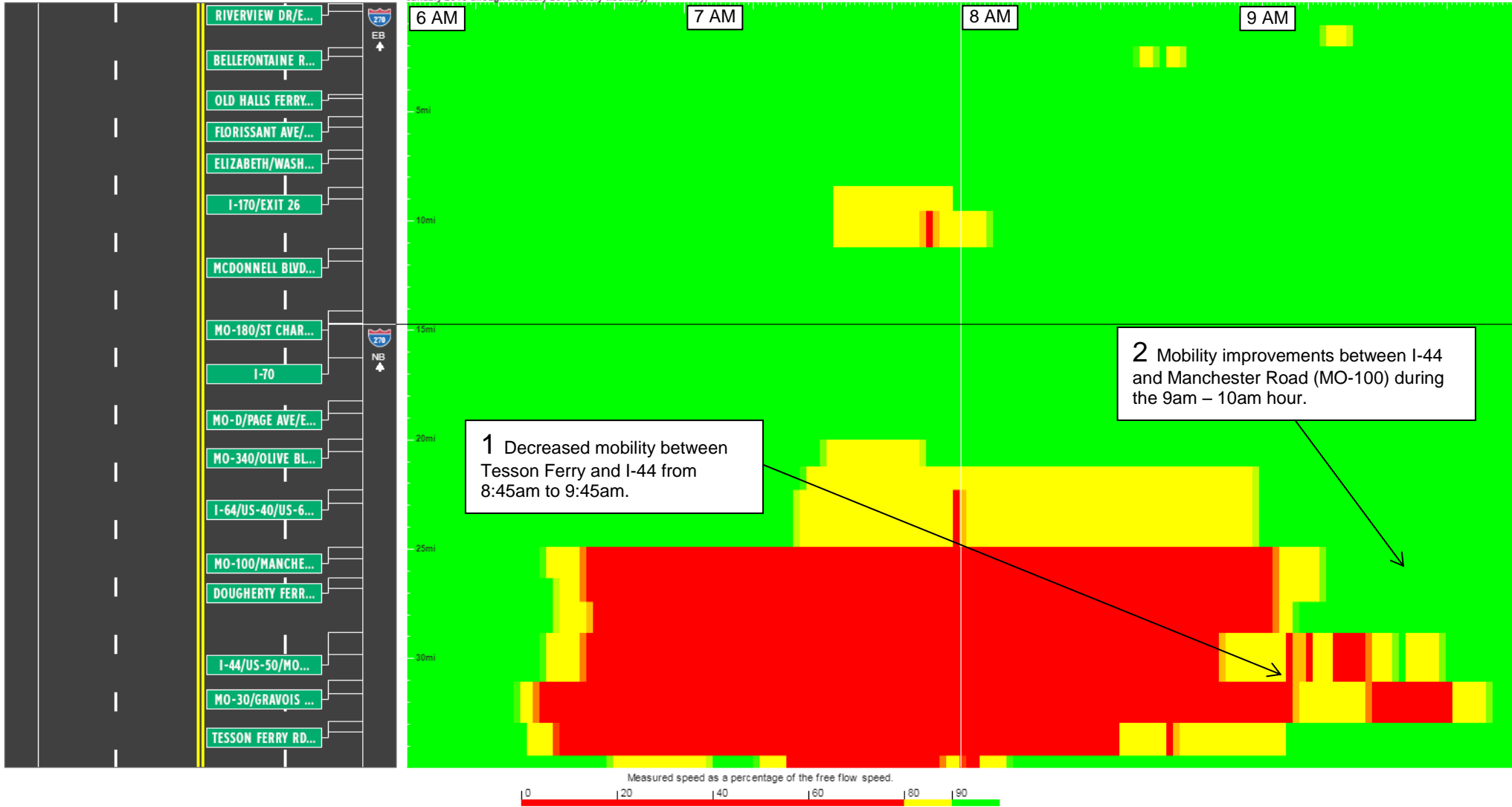
January 2017 through February 2017 (every weekday)



## AM Northbound/Eastbound 2018

Congestion on I-270 Eastbound and I-270 Northbound using HERE data  
Averaged by 2 minutes for January 2018 through February 2018 (every weekday)

January 2018 through February 2018 (every weekday)





# FREEWAY MANAGEMENT

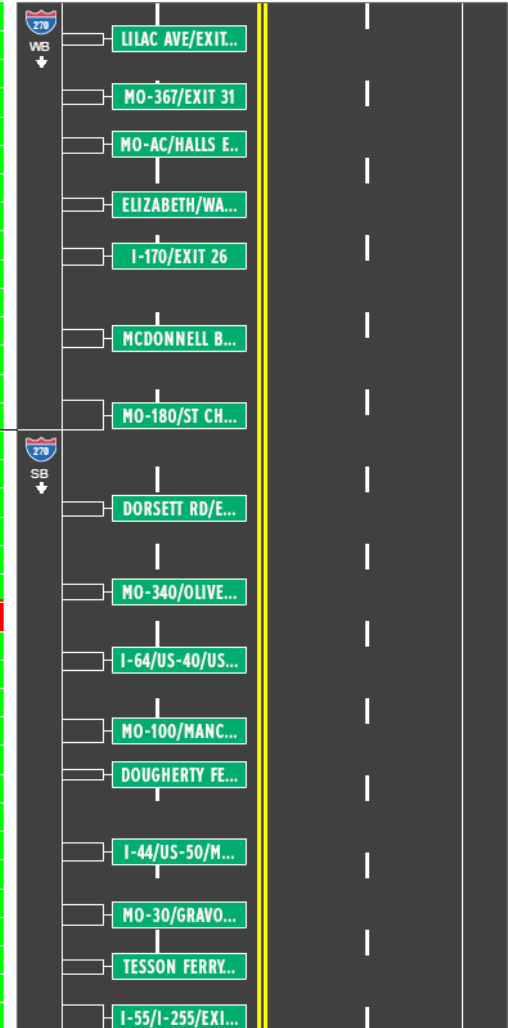
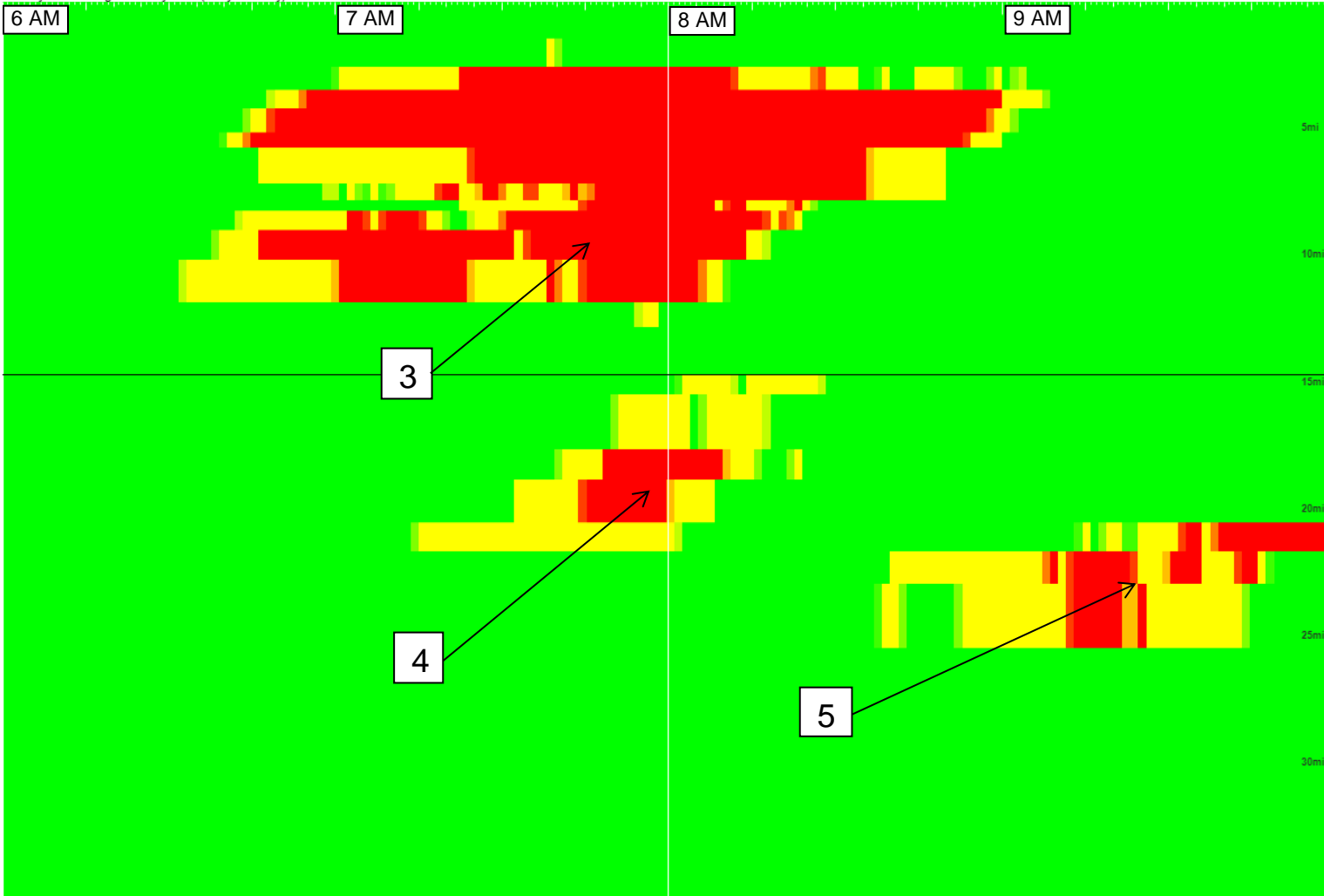
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## AM Westbound/Southbound 2017

Congestion on I-270 Westbound and I-270 Southbound using HERE data  
Averaged by 2 minutes for January 2017 through February 2017 (every weekday)

January 2017 through February 2017 (every weekday)







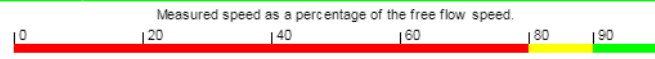
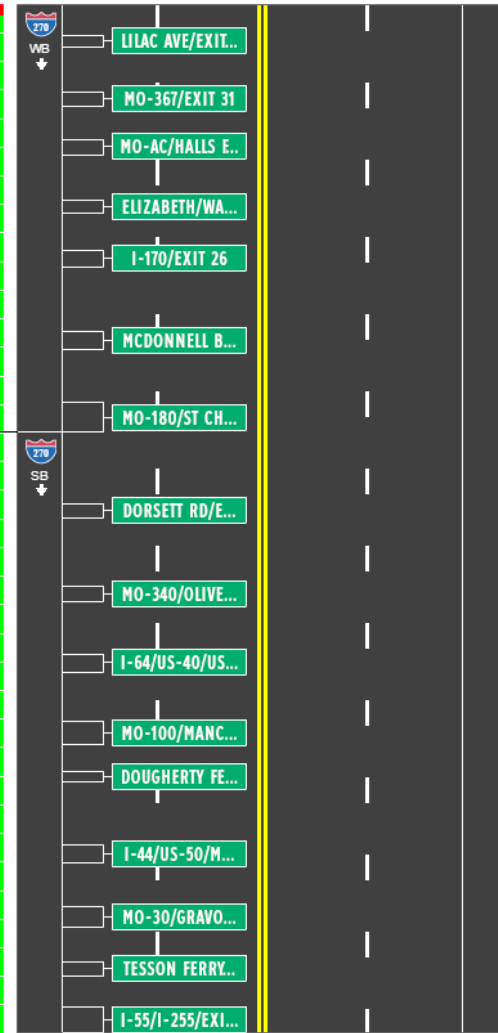
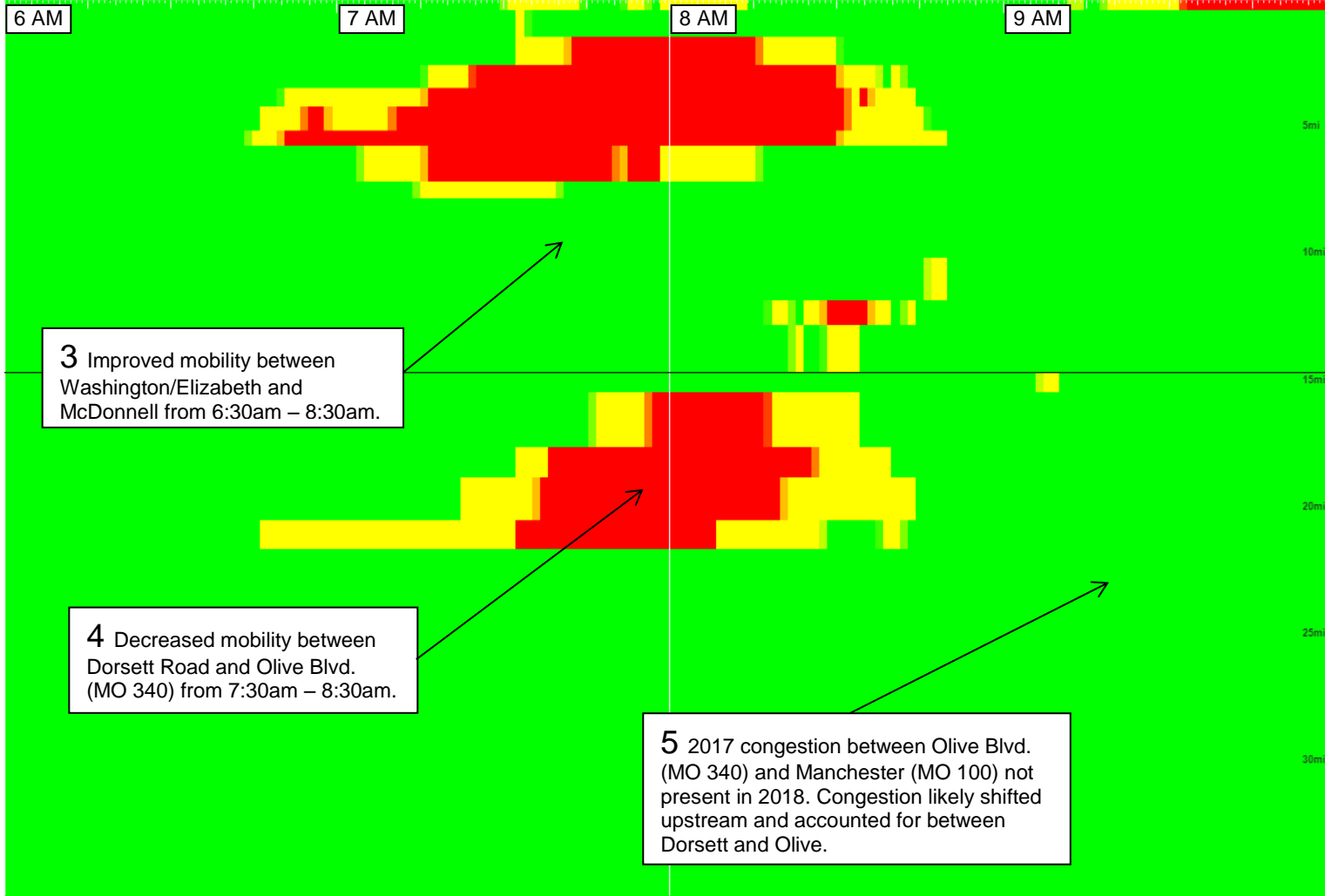
# FREEWAY MANAGEMENT

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## AM Westbound/Southbound 2018

Congestion on I-270 Westbound and I-270 Southbound using HERE data  
Averaged by 2 minutes for January 2018 through February 2018 (every weekday)

January 2018 through February 2018 (every weekday)





**Overall PM Regional Mobility DECREASED SLIGHTLY**

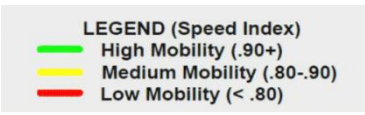
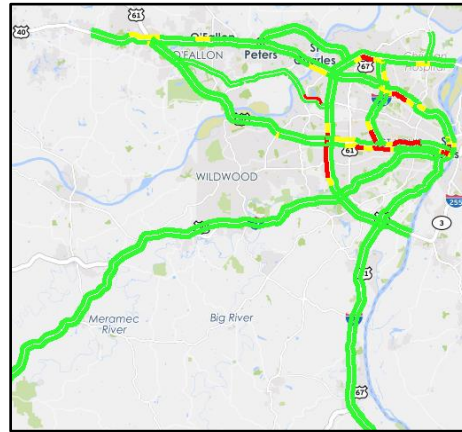
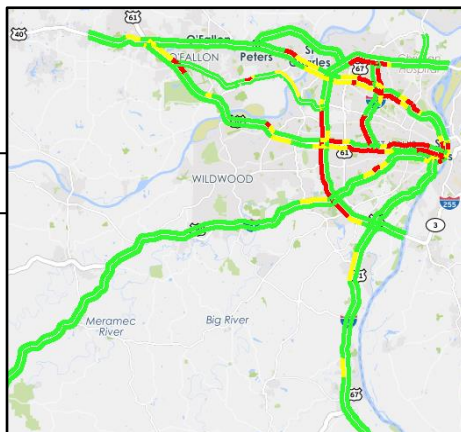
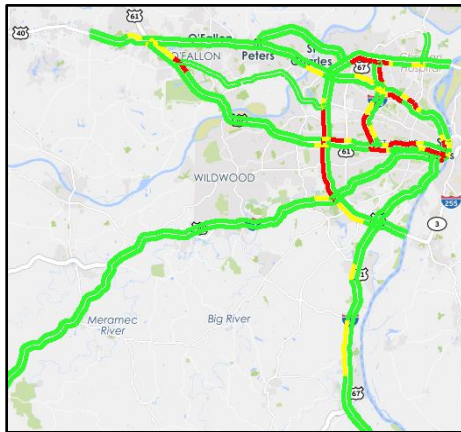
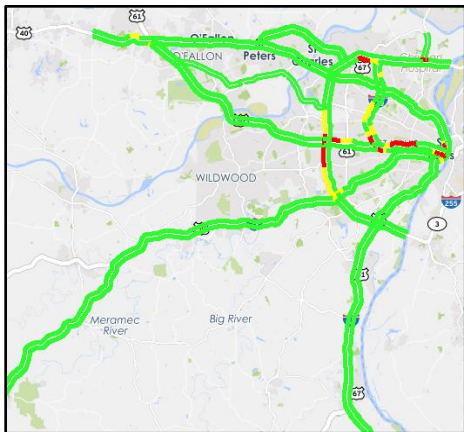
## PM Peak Period Mobility January/February 2017

3 pm – 4 pm

4 pm – 5 pm

5 pm – 6 pm

6 pm – 7 pm



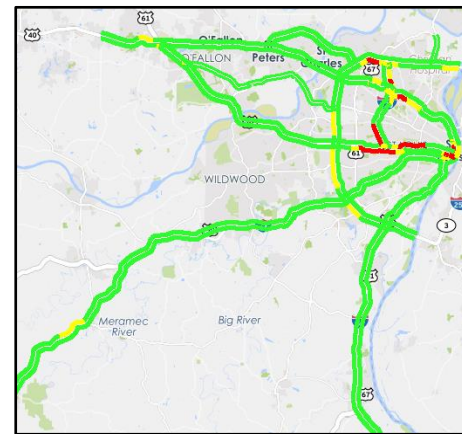
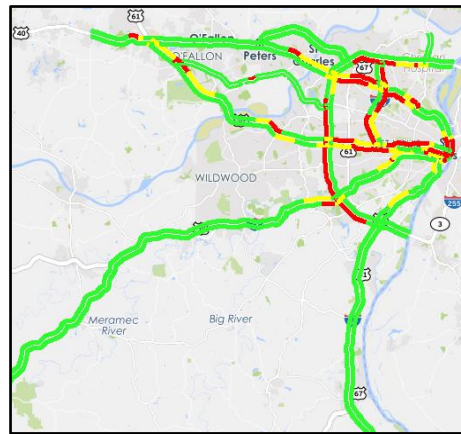
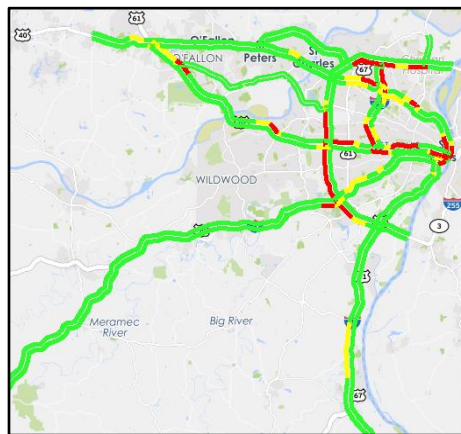
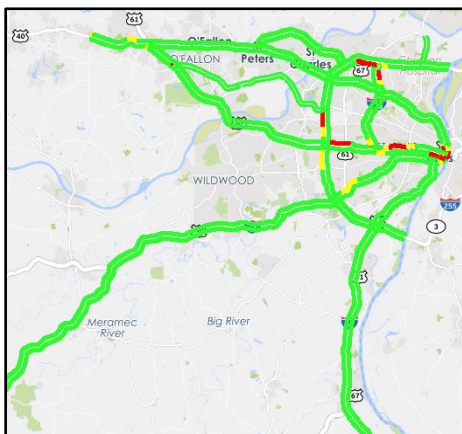
## PM Peak Period Mobility January/February 2018

3 pm – 4 pm

4 pm – 5 pm

5 pm – 6 pm

6 pm – 7 pm





## Highlighted Corridor

I-270

Comparing PM January/February 2017 to PM January/February 2018

PM Northbound I-270 Mobility DECREASED 2017 → 2018

PM Southbound I-270 Mobility INCREASED 2017 → 2018



# FREEWAY MANAGEMENT

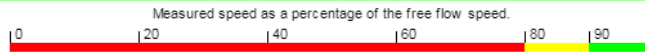
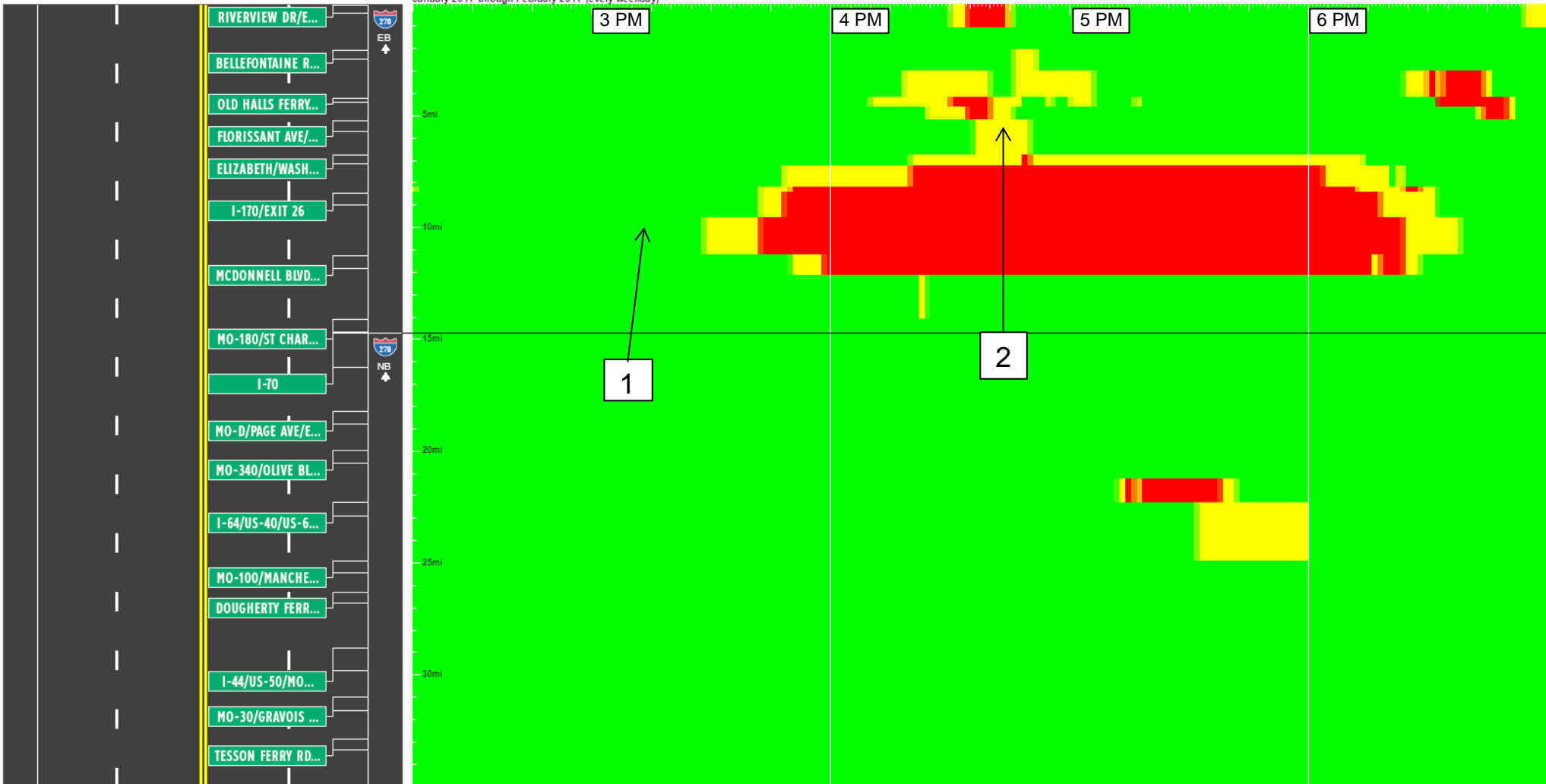
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## PM Northbound/Eastbound 2017

Congestion on I-270 Eastbound and I-270 Northbound using HERE data  
Averaged by 2 minutes for January 2017 through February 2017 (every weekday)

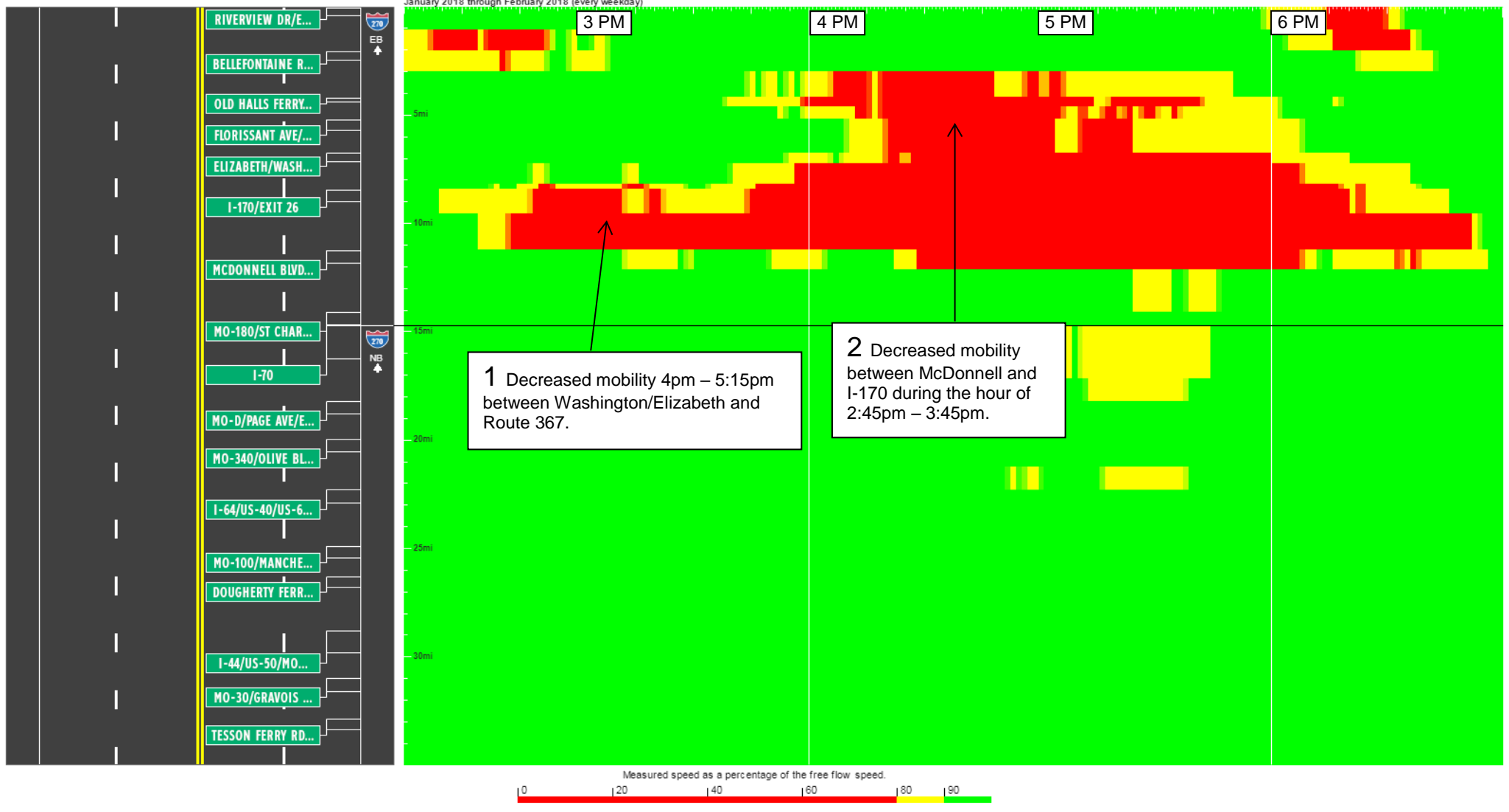
January 2017 through February 2017 (every weekday)





## PM Northbound/Eastbound 2018

**Congestion on I-270 Eastbound and I-270 Northbound using HERE data**  
 Averaged by 2 minutes for January 2018 through February 2018 (every weekday)





# FREEWAY MANAGEMENT

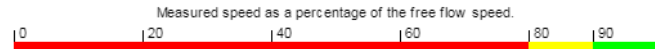
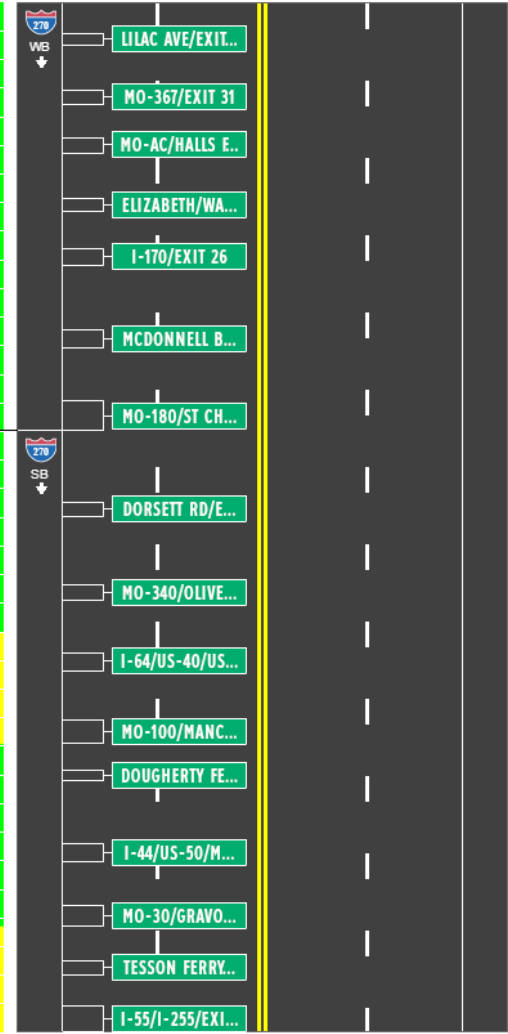
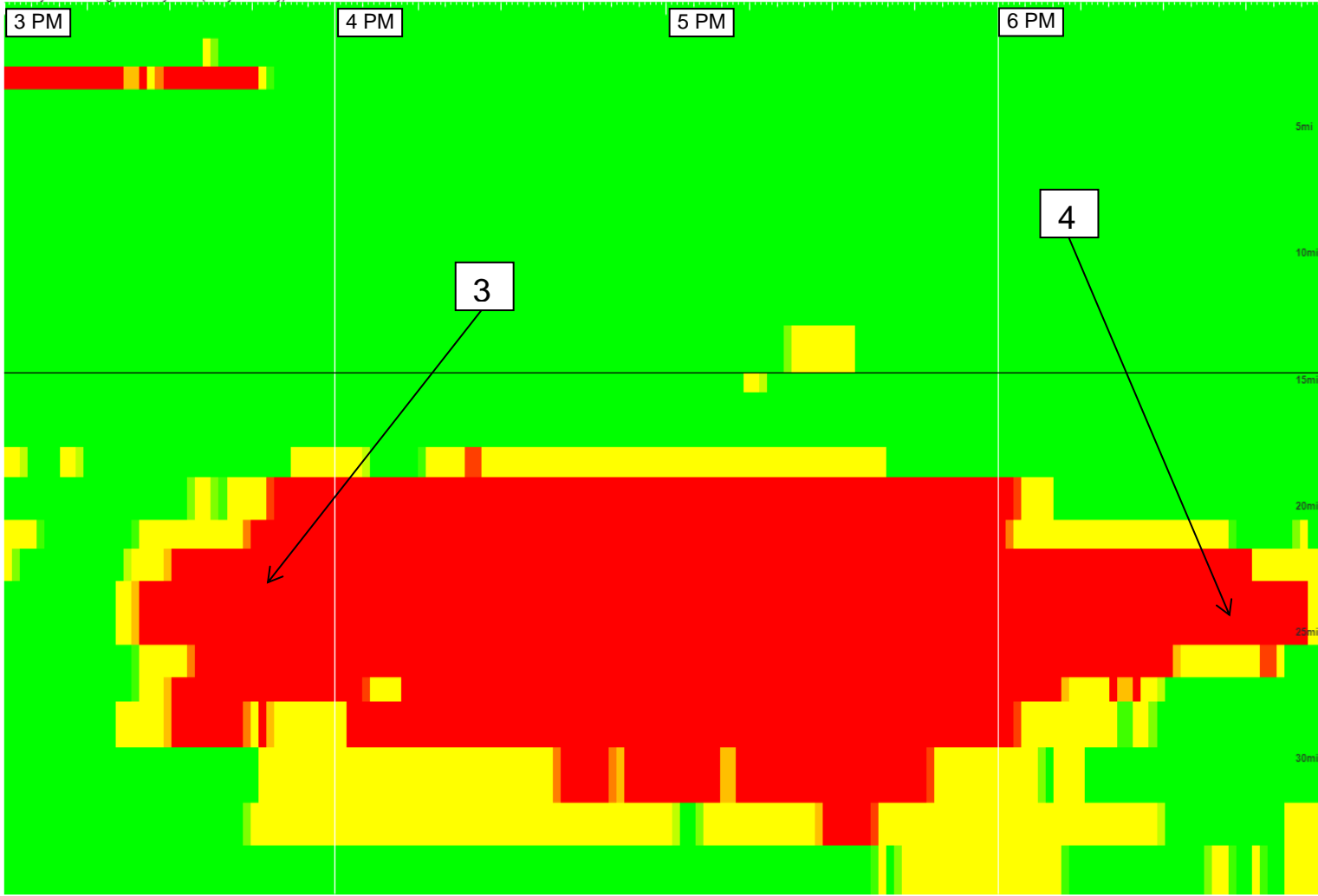
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## PM Westbound/Southbound 2017

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Averaged by 2 minutes for January 2017 through February 2017 (every weekday)

January 2017 through February 2017 (every weekday)

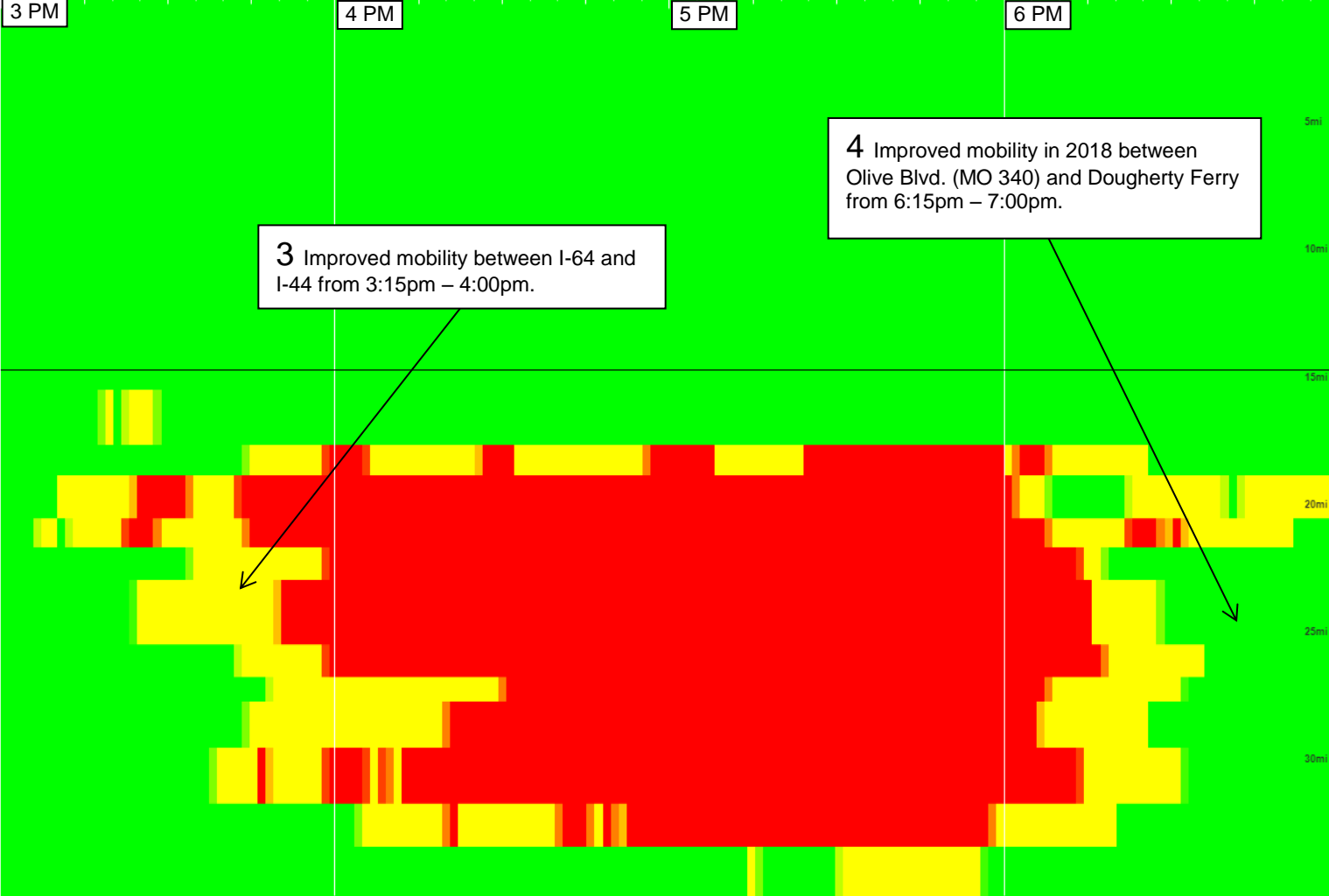




## PM Westbound/Southbound 2018

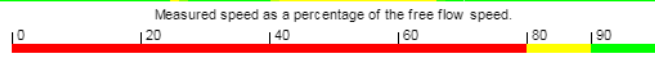
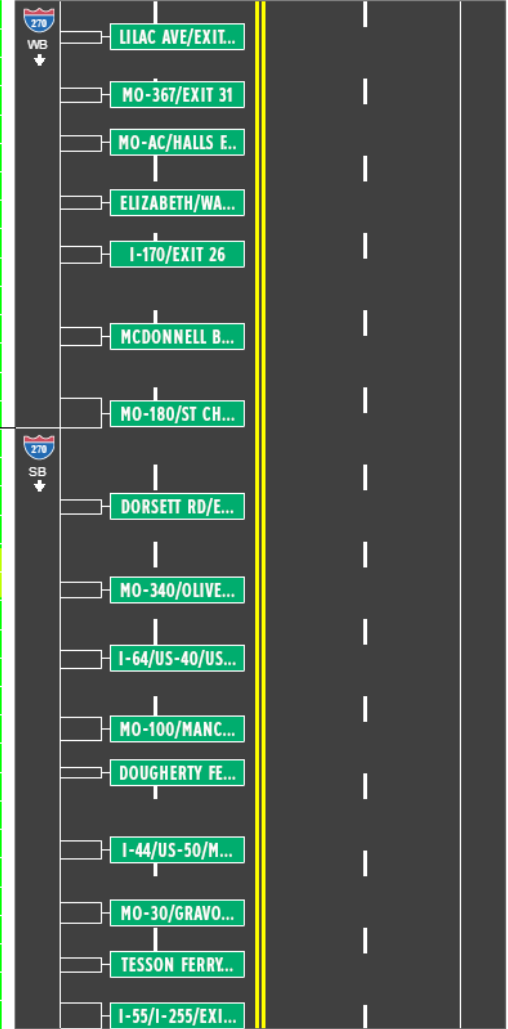
Congestion on I-270 Westbound and I-270 Southbound using HERE data  
Averaged by 2 minutes for January 2018 through February 2018 (every weekday)

January 2018 through February 2018 (every weekday)



3 Improved mobility between I-64 and I-44 from 3:15pm – 4:00pm.

4 Improved mobility in 2018 between Olive Blvd. (MO 340) and Dougherty Ferry from 6:15pm – 7:00pm.





## TMC Observed Work Zones

January 2018		February 2018	
Level of Travel Time Impact	Number of Work Zones	Level of Travel Time Impact	Number of Work Zones
Major Impact	2	Major Impact	6
Moderate Impact	6	Moderate Impact	14
Minor Impact	162	Minor Impact	181
<b>Total</b>	<b>170</b>	<b>Total</b>	<b>201</b>

*\*Impact Levels described in Data Key:*

**SL Mobility Rating:**

- ◆ Jan 2018: 92%
- ◆ Feb 2018: 91%
- ◆ Goal: 91%

**SL Visibility levels:**

- ◆ Jan 2018: 97%
- ◆ Feb 2018: 93%
- ◆ Goal: 91%





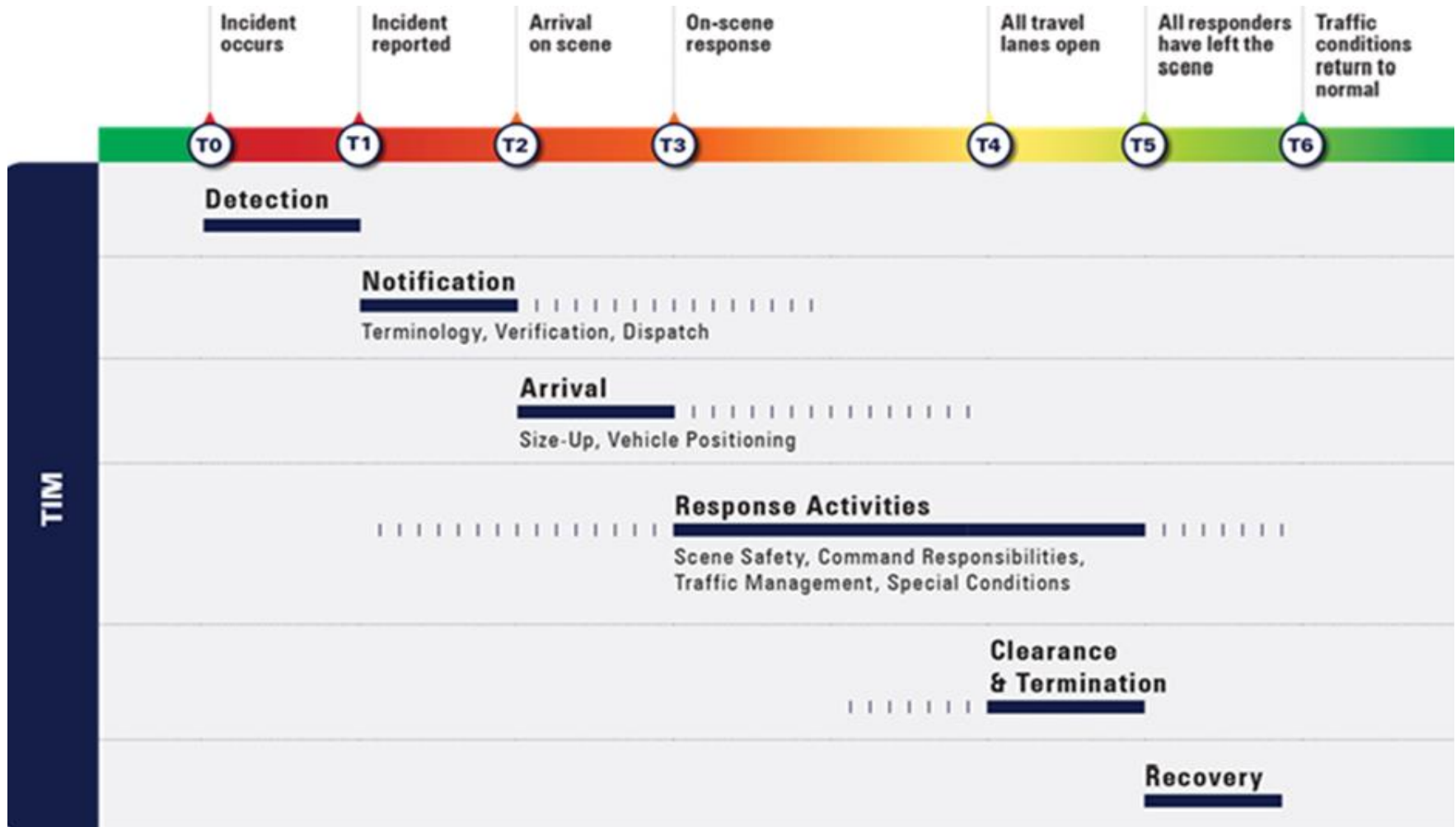
## Additional Travel Time Impacts through Work Zones

Major Impact (15 Minutes or Above): #    Moderate Impact (10-14 Minutes): #    #    #

1/1 – 2/28 (Daily) Eastbound I-64 – Poplar Street Bridge 3 right lanes:

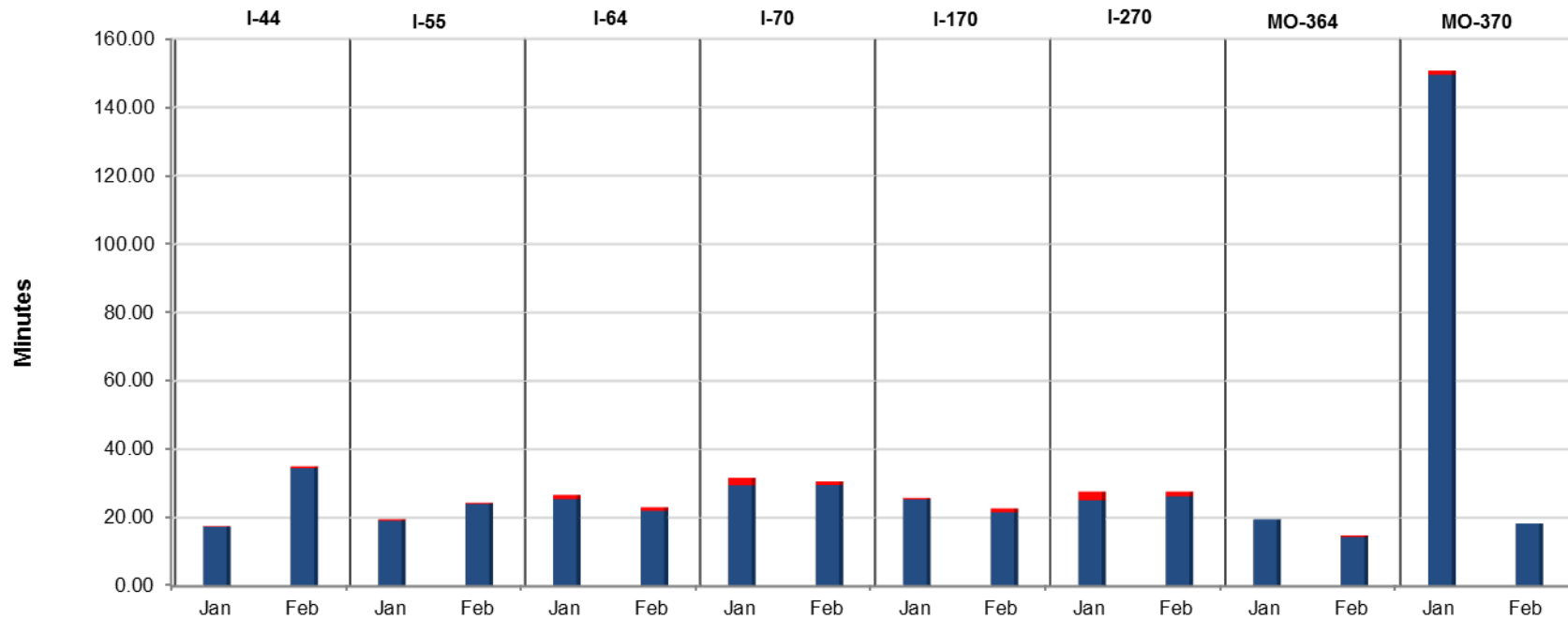
8    20

- Closed leaving one lane of traffic open eastbound before Poplar Street Bridge daily
- All mitigation efforts were in use
- RITIS data recorded additional travel times up to 25 minutes during non-peak hours





January 2018 vs. February 2018  
Incidents Summary



- Average Time for Backup to Clear = T6 - T4
- Average Time to Clear Incident from Lanes = T4 - T1



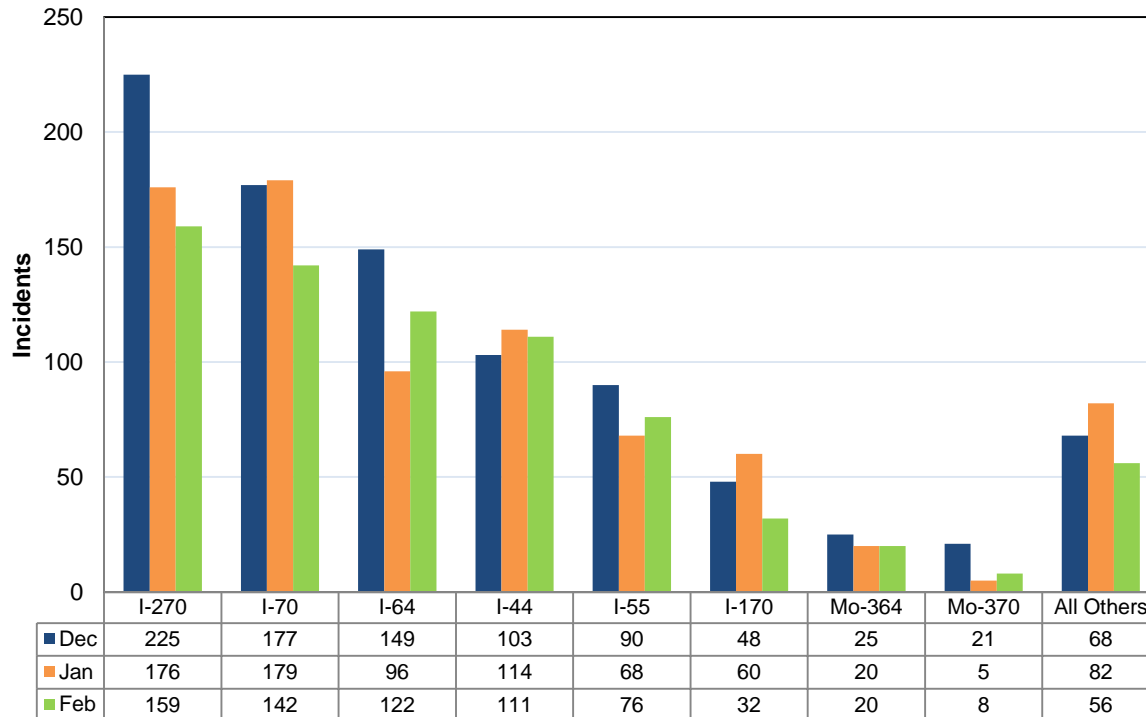
# INCIDENT MANAGEMENT

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**Total Number of Incidents: / December: 906 / January: 800 / February: 726**

**Total Number of Lane Blocking Incidents**



Major Impact Incidents  
 January 2018 vs. February 2018  
 (4) (3)

Fatal Incidents  
 January 2018 vs. February 2018  
 (13) (1)

Tractor Trailer Incidents  
 January 2018 vs. February 2018  
 (56) (43)



# INCIDENT MANAGEMENT

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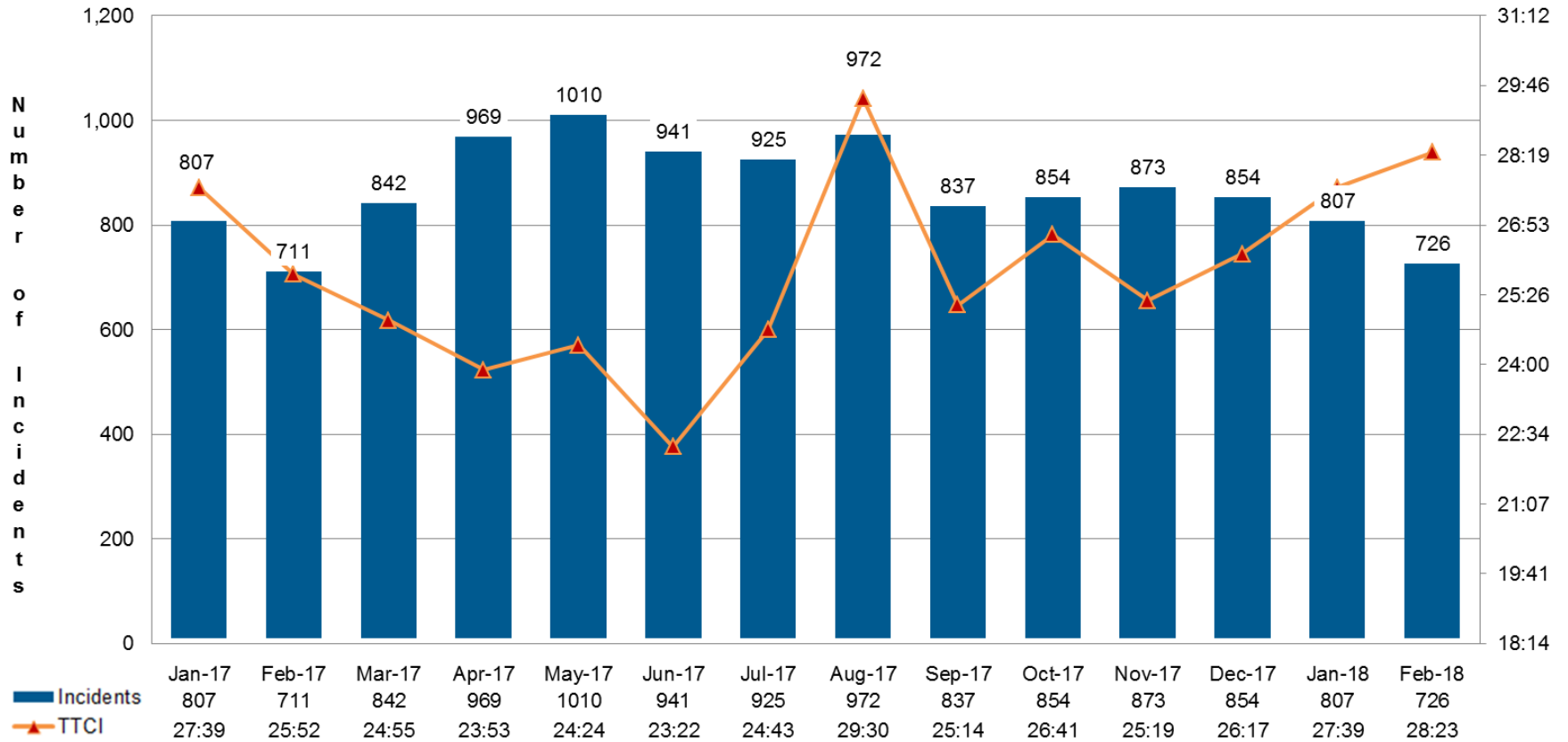
## Lane Blocking Incidents by Freeway January and February 2018

Interstate	Month	Number of Incidents	Average Time to Clear Incident from Lanes = T4 - T1	Average Time for Backup to Clear = T6 - T4	Freeway Miles	Incidents per Mile
I-44	Jan	114	17:37	00:17	33	3.45
I-44	Feb	111	34:53	00:46	33	3.36
I-55	Jan	68	19:16	00:38	23	2.96
I-55	Feb	76	24:07	00:33	23	3.30
I-64	Jan	96	25:42	01:28	40	2.40
I-64	Feb	122	22:02	01:05	40	3.05
I-70	Jan	179	29:51	02:16	38	4.71
I-70	Feb	142	29:55	01:06	38	3.74
I-170	Jan	60	25:40	00:42	11	5.45
I-170	Feb	32	21:54	01:22	11	2.91
I-270	Jan	176	25:11	02:53	36	4.89
I-270	Feb	159	26:25	01:41	36	4.42
MO-364	Jan	20	26:30	01:00	11	1.82
MO-364	Feb	20	14:36	00:48	11	1.82
MO-370	Jan	5	2:29:48	01:24	13	0.38
MO-370	Feb	8	18:37	00:00	13	0.62
<b>Total</b>	<b>Jan/Feb</b>	<b>1388</b>	<b>32:00</b>	<b>01:07</b>	<b>410</b>	<b>3.39</b>



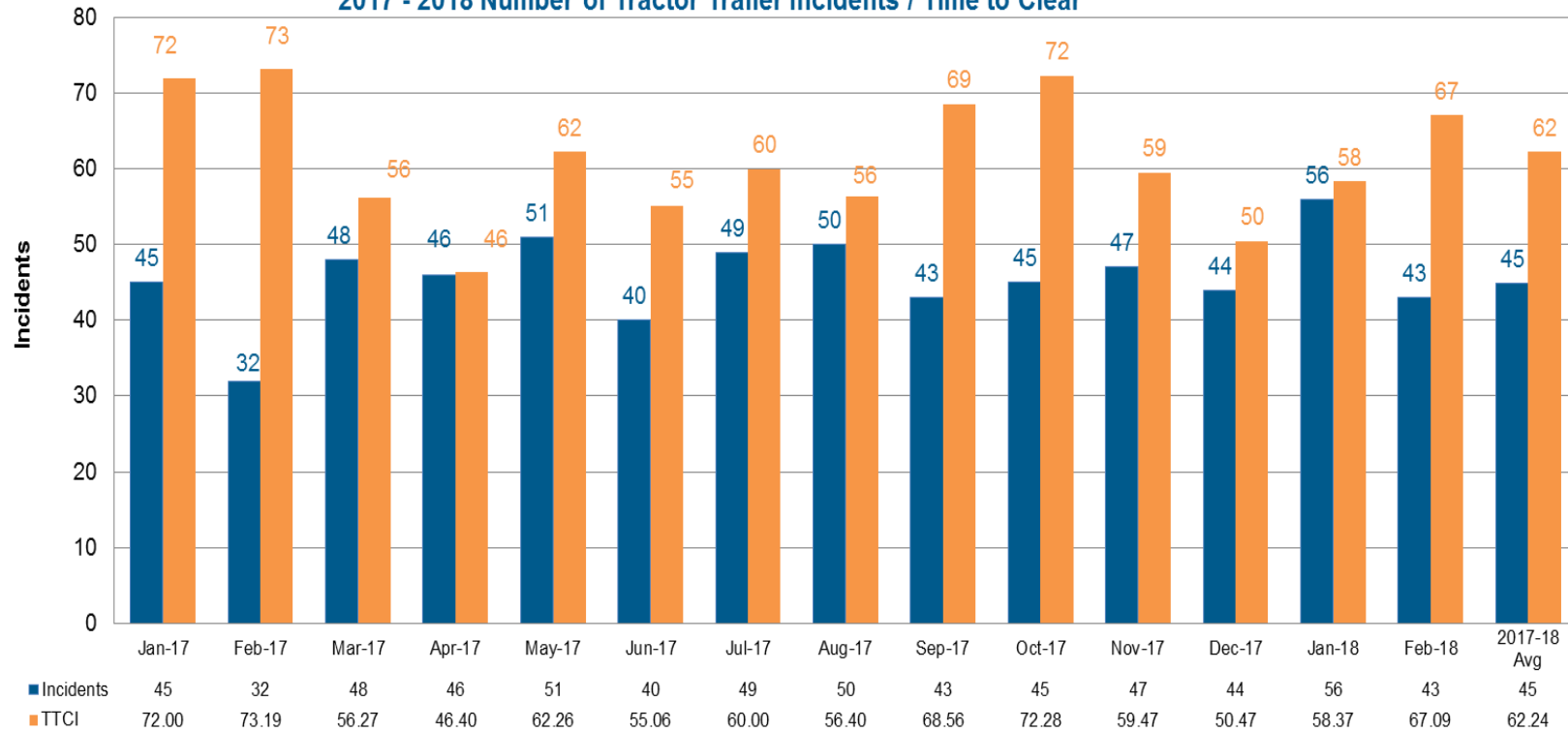
2017 - 2018 Number of Incidents and Time to Clear Lanes

Time to Clear Incidents





2017 - 2018 Number of Tractor Trailer Incidents / Time to Clear





# INCIDENT MANAGEMENT

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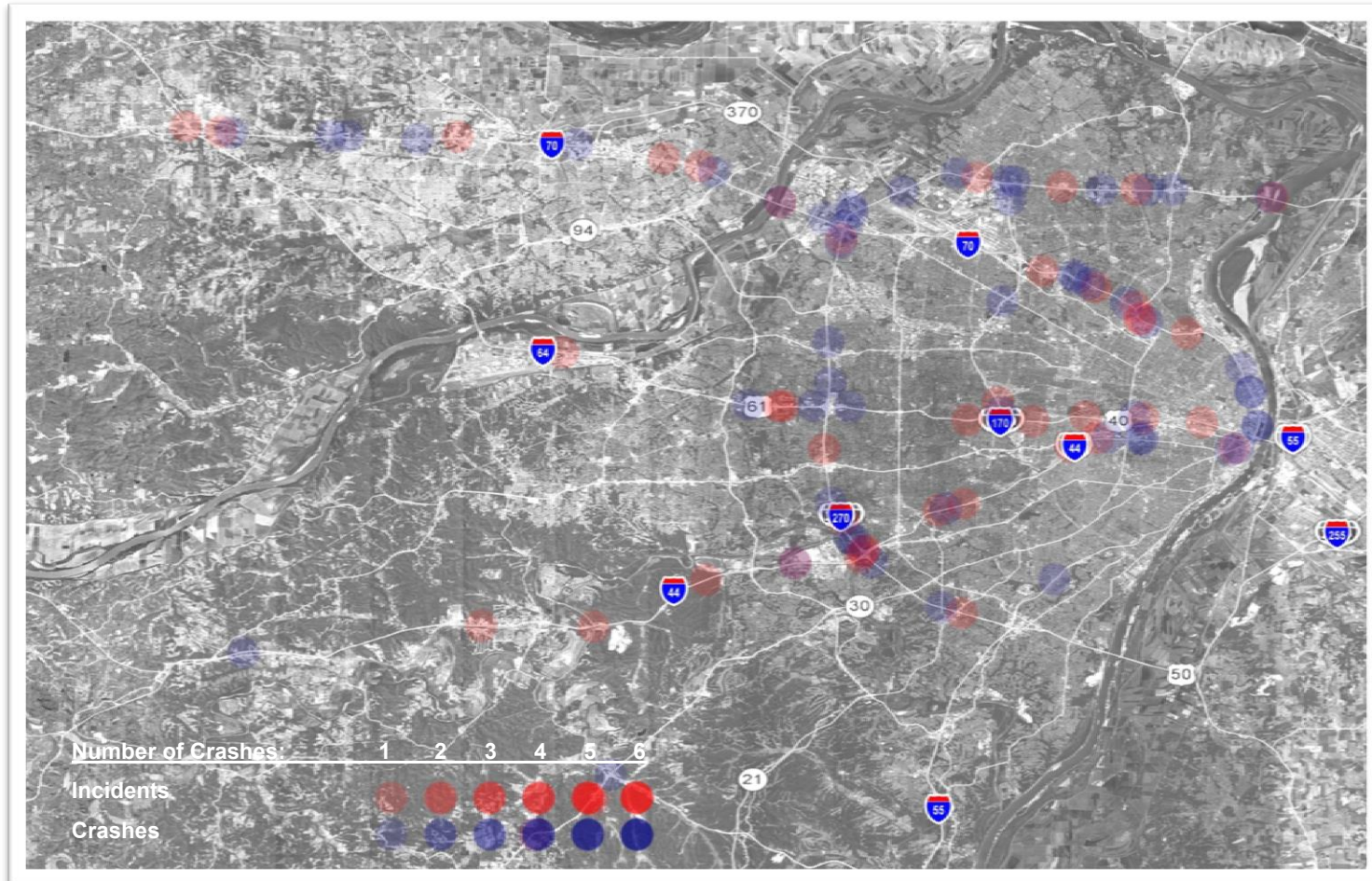
## 2018 Tractor Trailer Incidents by Route

2018	I-44	I-55	I-64	I-70	I-170	I-255/I-270	Route 364	Route 370	Other	Total
Jan	10	2	8	15	3	16	0	1	1	56
Feb	9	3	4	12	1	11	0	0	3	43
Mar										
Apr										
May										
Jun										
Jul										
Aug										
Sep										
Oct										
Nov										
Dec										
<b>Yearly Total</b>	<b>19</b>	<b>5</b>	<b>12</b>	<b>27</b>	<b>4</b>	<b>27</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>99</b>



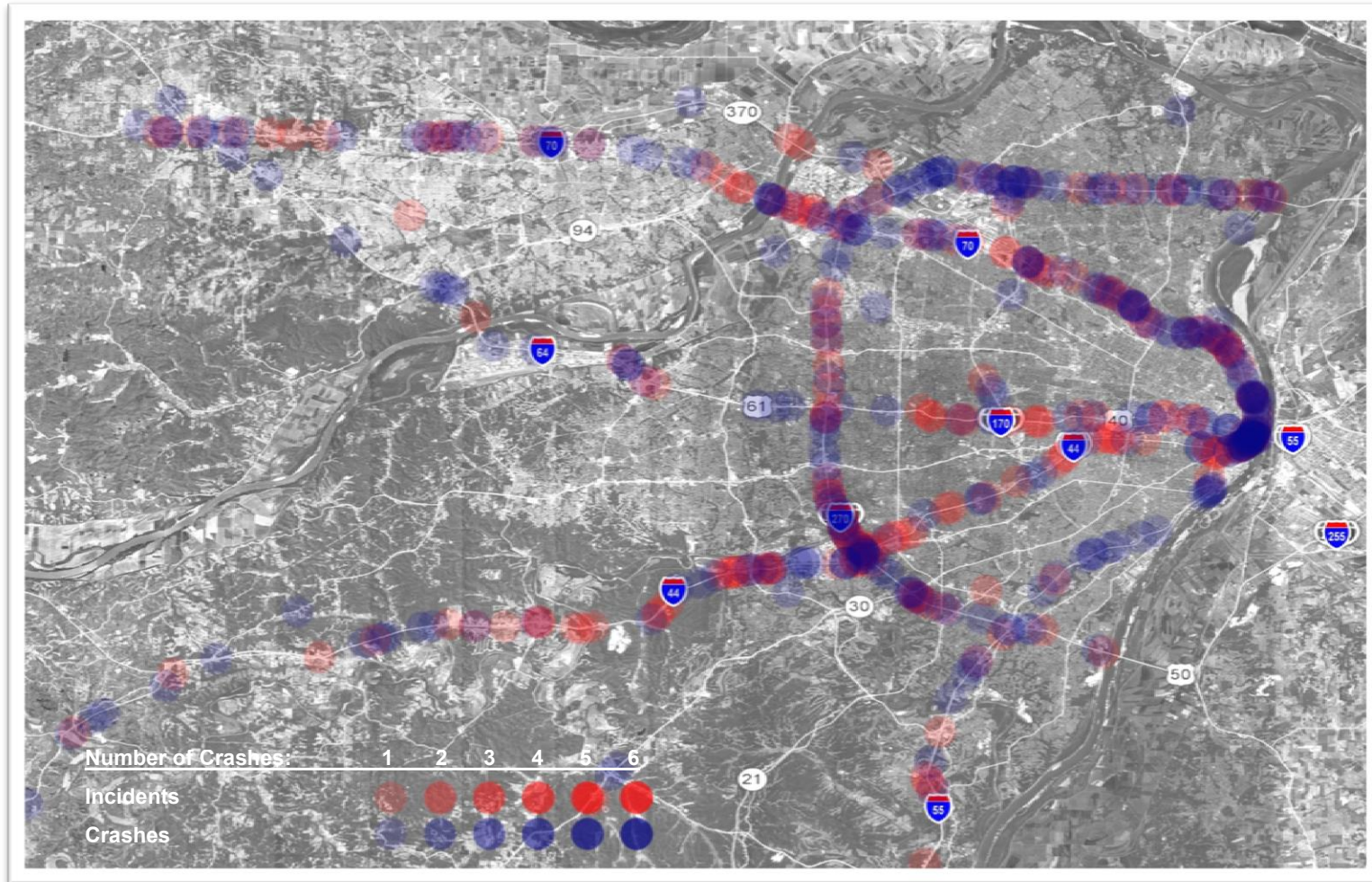


January 2018 – February 2018 Tractor Trailer Incidents Map





January 2017 – December 2017 Tractor Trailer Incidents Map





# INCIDENT MANAGEMENT

ST. LOUIS DISTRICT ■ BI-MONTHLY REGIONAL MOBILITY REPORT ■ JANUARY / FEBRUARY 2018



## Incidents over Two Hours January / February 2018

Incidents in red denote high mobility impact

#	Date & Time	Day of Week	Route	Location	Description	Duration HH/MM
1	1/5/2018 11:08	Friday	MO 370 EB	TO MISSOURI BOTTOM RD	Single Vehicle Overturned Tractor Trailer	11:03
2	1/8/2018 19:24	Monday	Route A	TO MO 21 NB Ramp	Fatal Crash	2:29
3	1/9/2018 6:45	Tuesday	I-44 EB	AT PARK AVE	Pedestrian Struck By Hit And Run Driver	2:53
4	1/9/2018 16:27	Tuesday	MO 94 WB	BEFORE I-64	Multi-Vehicle Medical Emergency Fatal Crash	3:00
5	1/9/2018 19:13	Tuesday	30 SP	LOCAL HILLSBORO RD CRD	Two-Vehicle Double Fatal Crash	3:35
6	1/13/2018 2:19	Saturday	I-70 WB	AT SALISBURY	Fatal Crash With Ejection	2:55
7	1/14/2018 10:34	Sunday	US 67 SB	PAST OLD LEMAY FERRY RD	Fatal Crash	3:17
8	1/15/2018 7:39	Monday	I-70 EB/WB	PAST ROUTE T/W	Fatal Crossover Crash	3:08
9	1/19/2018 19:33	Friday	MO 364 EB	TO MO 94 WB	Single-Vehicle Crash	2:21
10	1/20/2018 14:09	Saturday	61 US	ROUTE W NB RT	Two-Vehicle Fatal Crash	2:42
11	1/21/2018 5:01	Sunday	I-44 WB	BEFORE I-64	Two-Vehicle Medical Emergency Crash	2:13
12	1/22/2018 8:27	Monday	I-70 EB	AT I-270	Tractor Trailer Crash With State Damage	2:00
13	1/23/2018 6:15	Tuesday	I-170 NB	BEFORE I-270	Rollover Crash With Serious Injuries	2:34
14	1/23/2018 8:19	Tuesday	I-64 EB/WB	BEFORE I-270	Multi-Vehicle Fatal Crash TT Vs. Car	3:41
15	1/23/2018 12:13	Tuesday	US 67 SB	PAST MO 94	Stolen Vehicle Police Chase Crash	2:18
16	1/24/2018 15:42	Wednesday	I-270 EB	AT MO 367	Multi-Vehicle Chain Reaction Crash	2:00
17	1/24/2018 20:08	Wednesday	50 US	DENMARK RD CRD	Fatal Crash	4:05
18	1/27/2018 11:51	Saturday	EB/WB 100 MO	OO RT	Motorcycle Vs Car Head-On Fatal Crash	2:42
19	1/27/2018 17:45	Saturday	I-64 WB	AT TIMBERLAKE MANOR PKWY	High Speed Crash With Serious Injuries	4:50
20	1/29/2018 5:34	Monday	ST CHARLES ROCK RD	PENNRIDGE DR CST	Two-Vehicle Fatal Crash	3:45
21	2/1/2018 23:34	Thursday	I-55 SB	PAST POTOMAC ST	Non-Hazmat Chemical Spill Cleanup	2:21
22	2/4/2018 3:29	Sunday	I-170 NB	BEFORE AIRPORT RD	Crash Involving A MSHP Vehicle Struck	2:27
23	2/8/2018 21:13	Thursday	I-44 WB	TO VANDEVENTER AVE	Wrong-Way Driver Tractor Trailer Vs. Car	2:14
24	2/10/2018 21:32	Saturday	I-44 WB	PAST EXIT 225 MO 185/ROUTE D	Tractor Trailer Crash Into Bridge Structure	4:54



# INCIDENT MANAGEMENT

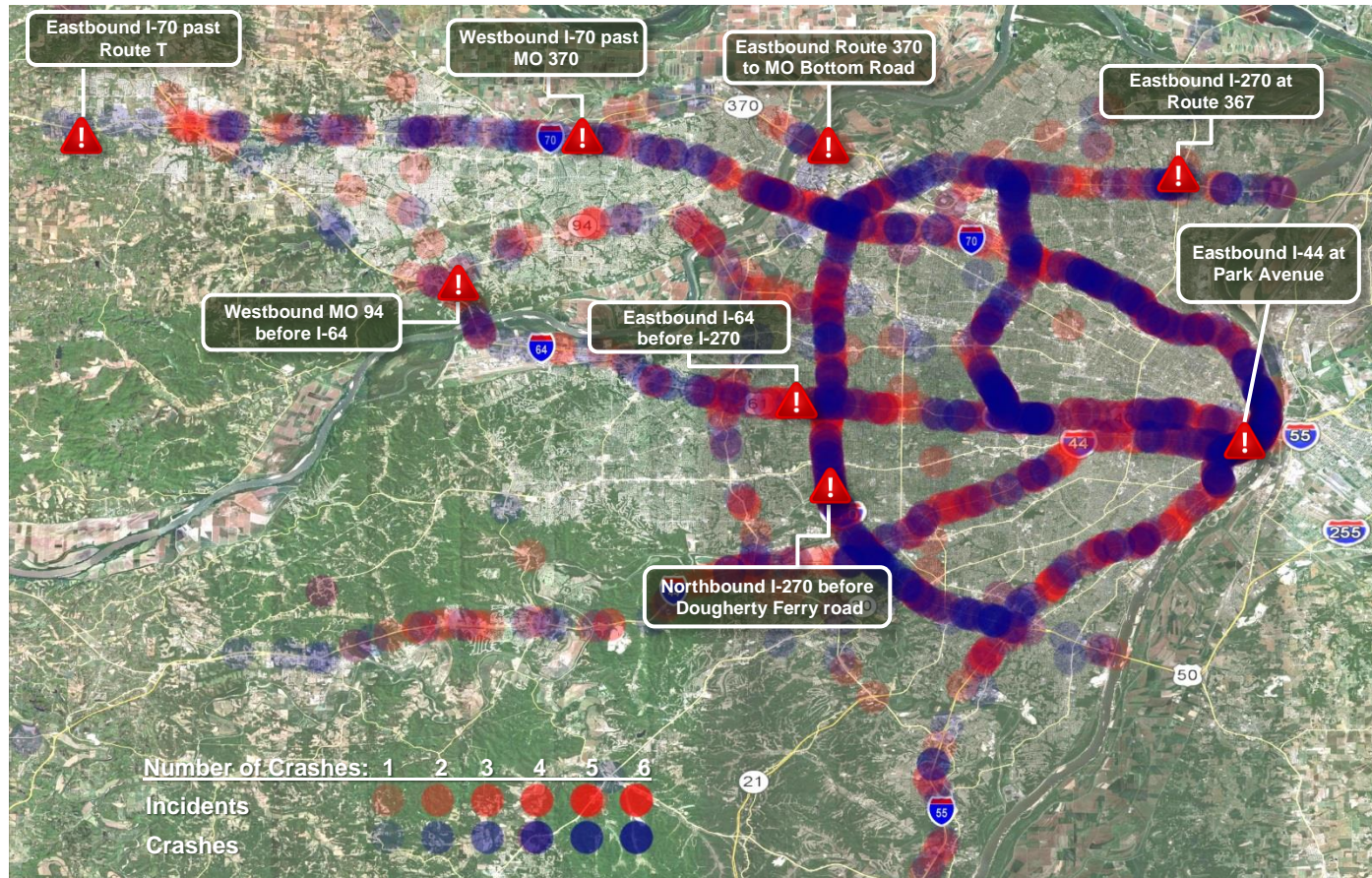
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#	Date & Time		Route	Location	Description	Duration HH/MM
25	2/11/2018 3:57	Sunday	I-70 EB	BEFORE BRYAN RD	Tractor Trailer Slid Off Roadway	6:48
26	2/13/2018 17:42	Tuesday	E MANCHESTER RD	S SAPPINGTON RD CST	Sewer Grate Collapsed	2:53
27	2/14/2018 4:57	Wednesday	340 MO	EMERSON RD CST	Power Lines Down Alongside Roadway	7:18
28	2/14/2018 8:43	Wednesday	AC RT	PARKER SPUR CST	School Bus Crash With Injuries	2:59
29	2/17/2018 8:21	Saturday	I-44 WB	AT BOWLES AVE	Tractor Trailer Crash	2:08
30	2/19/2018 10:57	Monday	I-270 NB	BEFORE DOUGHERTY FERRY RD	Multi-Vehicle Crash	4:17
31	2/19/2018 13:48	Monday	I-64 EB	BEFORE GRAND BLVD	Single-Vehicle Crash	3:55
32	2/20/2018 21:08	Tuesday	I-44 WB	AT I-64	Roadway Flooded Clogged MSD Drain	4:06
33	2/23/2018 7:08	Friday	I-70 WB	PAST MO 370	A Tractor Trailer vs Car Crash TT Hit Barrier Wall Broke Both Axles	2:33



## January / February 2018 Incidents with Mobility Impact Map



Denotes Location of Major Impact Traffic Incidents



## Major Impact Traffic Incidents and Mitigation

### 1/9/2018 (Tuesday)

- **Time:** 6:45 am – 9:38 am \*\*\* Fatality \*\*\*
- **Location:** St. Louis City – Eastbound I-44/Northbound I-55 at Park Avenue
- **Event Type:** Pedestrian Struck/Hit and Run
- **Estimated Initial Impact:** : Rush Hour: 3 of 3 travel lanes affected equals (=) 100%
- **Incident Details:** The TMC received a call from the St. Louis City Police Department advising them of an accident in which a pedestrian was struck. The vehicle involved had fled the scene without stopping.
- **Action Taken:** St. Louis City Police, Fire, and EMS responded, as did the MSHP who took command of the scene. The TMC immediately entered the incident into ATMS and activated all available DMS boards within one minute. This also created an event in TMS to notify the public of the closure. MoDOT Emergency Responders were dispatched and assisted with traffic control. All lanes of traffic were closed and drivers were diverted off onto Park Avenue as well as Truman Parkway with city streets used as a detour. A MoDOT Traffic Engineer was notified and began to adjust necessary signal timing for traffic. The ER Supervisor, Communication Staff, Maintenance Superintendent and the MoDOT Incident Management Coordinator were all notified. An incident alert was sent, updated and cleared to keep management informed of the closure. Reconstruction had a delayed response, which contributed to the extended duration of the incident. Emergency crews were able to get the right and exit lanes opened within 42 minutes to relieve some congestion. However, traffic queued approximately 5.2 miles on Northbound I-55 and approximately 1.1 miles on Eastbound I-44. It quickly returned to normal once all lanes were reopened.
- **Event Duration:** 2 hours 53 minutes

Eastbound I-44/NB I-55 at Park Avenue	Left Shoulder	Lane 1	Lane 2	Lane 3	Exit Lane	Right Shoulder
Closed Hours/Minutes	2:53	2:53	2:53	0:42	0:42	0:42





## Major Impact Traffic Incidents and Mitigation

### 1/15/2018 (Monday)

- **Time:** 7:39 am – 10:48 am \*\*\* Fatality \*\*\*
- **Location:** St. Charles County – Eastbound/Westbound I-70 past Route T
- **Event:** Two-Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 2 of 2 travel lanes affected equals (=) 100%
- **Incident Details:** The driver of a vehicle traveling westbound on I-70 fell asleep at the wheel causing the vehicle to travel off the left side of the roadway, over the cable barriers and onto Eastbound I-70. A second vehicle traveling eastbound struck the right side of the first vehicle. The front seat passenger of the first vehicle was pronounced on scene by Wentzville EMS. The driver and five additional passengers in the first vehicle were transported to a local hospital with injuries. This included 3 children ages 5 and under who were not in child safety seats. The driver of the second vehicle was transported with serious injuries.
- **Action:** Wentzville PD, Wright City PD, Fire, and St. Charles County and Warren County EMS responded, as did the MSHP who took command of the scene. Both lanes of Eastbound I-70 were closed and the #1 lane of Westbound I-70 was also closed for emergency vehicles. MoDOT Emergency Response assisted with traffic control, diverting drivers onto Veterans Memorial Parkway and the North Outer Road. The detour took drivers to Wentzville Parkway and back onto I-70. An Engineer was notified and began to adjust necessary signal timing for traffic. The ER Supervisor, Communication Staff, Maintenance Superintendent, EOC, Motor Carriers and the MoDOT Incident Management Coordinator were all notified. The TMC messaged for the event and entered it into TMS to notify the public of the closure. KC Scout was advised of the closure and helped message for eastbound traffic. An incident alert was sent to notify management of the closure. Reconstruction had a delayed response which contributed to the extended duration. Traffic queued approximately 4.8 miles on I-70 eastbound and approximately 2 miles on I-70 westbound. However, traffic returned to normal approximately 8 minutes after all lanes were opened.
- **Event Duration:** 3 hours 8 minutes

	Eastbound I-70 past Route T	Left Shoulder	Lane 1	Lane 2	Right Shoulder
	Closed Hours/Minutes	3:08	3:08	3:08	3:08
	Westbound I-70 before Route T	Left Shoulder	Lane 1	Lane 2	Right Shoulder
	Closed Hours/Minutes	2:42	2:42	0:00	3:04







# INCIDENT MANAGEMENT

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## Major Impact Traffic Incidents and Mitigation

1/23/2018 (Tuesday)

- **Time:** 8:19 am – 12:07 pm \*\*\* Fatality \*\*\*
- **Location:** St. Louis County – Eastbound I-64 before I-270
- **Event:** Multi-Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 5 of 5 travel lanes affected equals (=) 100%
- **Incident Details:** The TMC operators overheard units being dispatched to a multi-vehicle crash while monitoring police scanners. It was determined to be a chain reaction accident involving six vehicles including a tractor trailer. The driver of a small passenger vehicle cut in front of the tractor trailer who was unable to stop and rear ended the vehicle. The tractor trailer and passenger vehicle immediately burst into flames, fatally injuring the driver of the passenger vehicle. Three others were transported to a local hospital for treatment.
- **Action:** The MSHP, Town & Country Police, Des Peres Police, Creve Coeur Police, and West County Fire and EMS responded to work the scene. The TMC entered the incident into ATMS and activated available DMS boards within one minute. This also created an entry into TMS to notify the public. MoDOT Emergency Response Units were dispatched to assist with traffic control. All lanes of Eastbound I-64 were closed as were the two left lanes of Westbound I-64 to allow emergency responders additional room to work. Eastbound traffic was diverted onto MO 141 giving drivers several detour options. MoDOT Traffic Engineers were notified and began to adjust necessary signal timing to assist with the flow of the detoured traffic. The ER Supervisor, Communication Staff, Maintenance Superintendent, EOC, Motor Carriers and the MoDOT Incident Management Coordinator were all notified. Further, an incident alert and updates were sent to keep MoDOT management apprised as the incident progressed. Reconstruction had a delayed response and with maintenance sweeper down from Special Ops, SWAT was dispatched to manually sweep up the large amounts of debris. This contributed to the extended duration of the incident, as well as the number of vehicles involved and extent of damage. All vehicles had to be towed from the scene. Traffic queued approximately 5 miles on I-64 eastbound and approximately 1 mile on I-64 westbound, but returned to normal approximately 7 minutes after all lanes were opened
- **Event Duration:** 3 hours 48 minutes

	Eastbound I-64 before I-270	Left Shoulder	Lane 1	Lane 2	Lane 3	Exit Lane 1	Exit Lane 2	Right Shoulder
	Closed Hours/Minutes	3:41	3:41	3:41	3:41	3:41	3:41	3:41
	Westbound I-64 past I-270	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Exit Lane 1	Right Shoulder
	Closed Hours/Minutes	1:57	1:57	1:48	0:00	0:00	0:00	0:00

