

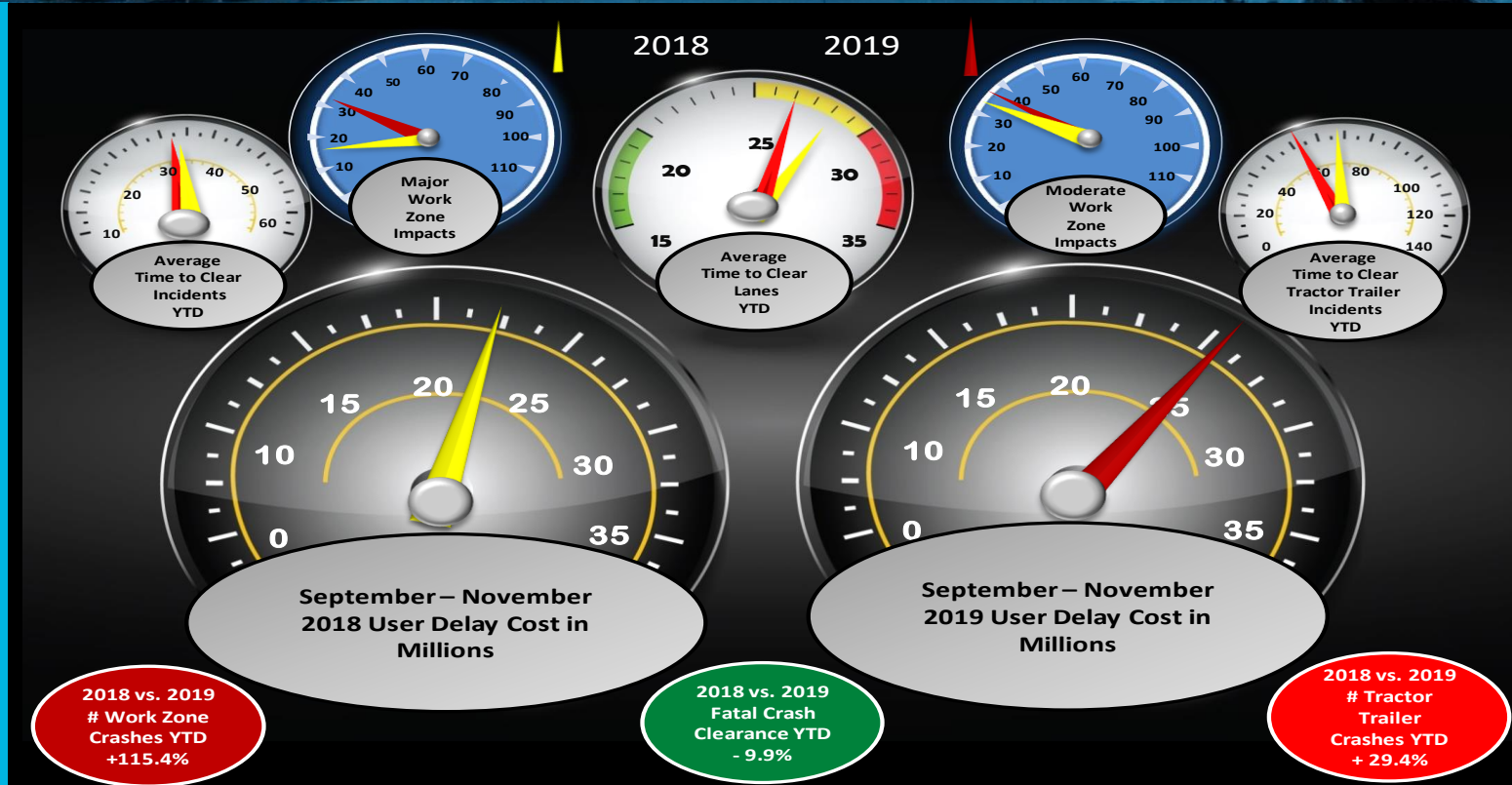


ST. LOUIS DISTRICT MOBILITY

QUARTERLY REGIONAL MOBILITY REPORT ■ SEPTEMBER / OCTOBER / NOVEMBER 2019 | EDITION NO. 09

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

September 2018 thru November 2018 Grand Total and Average

Delay cost:	Vehicle Miles traveled (VMT)
Total \$22,702,480	Total: 2,160,731,917 miles
Hours of delay	Passenger: 1,944,658,725 miles
Person-hours: 1,042,071h 18m	Commercial: 216,073,192 miles
Vehicle hours: 850,670h 27m	Delay per VMT: 0.0213 mins/mile

September 2019 thru November 2019 Grand Total and Average

Delay cost:	Vehicle Miles traveled (VMT)
Total \$25,069,549	Total: 2,160,776,793 miles
Hours of delay	Passenger: 1,944,699,114 miles
Person-hours: 1,150,722h 39m	Commercial: 216,077,679 miles
Vehicle hours: 939,365h 26m	Delay per VMT: 0.0261 mins/mile





EXECUTIVE SUMMARY

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ SEPTEMBER / OCTOBER / NOVEMBER 2019



ZONING IN

Fatal Crash Clearance times improved by 9.9%

The number of tractor trailer incidents increased by 29.4%

Work zone crashes increased by 115.4% compared to Fall of 2018

Mobility negatively impacted by November 11th Winter Event

Northbound I-270 at Manchester MO 100 took over the top congested spot this quarter

TMS Work Zones:

Sep	2019:	292
Oct	2019:	384
Nov	2019:	244

Work Zone Impact Breakdown:

	Major:	31– 4.0%
	Moderate:	38– 4.9%
	Minor:	703– 91.1%

WORK ZONE CRASHES: 56

Planned Event

Date: Entire Quarter
Location: Eastbound / Westbound I-44 at I-270
Event Detail: Continued Bridge work with daily lane closures.

Unplanned Event

Date: 9-11
Location: Westbound I-255 before Telegraph Road
Event Detail: Truck carrying 73,000 pounds of chocolate caught fire and had to be unloaded. Closed all Westbound lanes and traffic diversion set up. Event lasted 5 hours and 4 minutes with a 4.5 mile queue into Illinois.



EXECUTIVE SUMMARY

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ SEPTEMBER / OCTOBER / NOVEMBER 2019

Top 5 Congestion Locations / September 2018 – November 2018 vs. September 2019 – November 2019

***Locations ranked on Weighted Total Impact (Raw speed drop weighted by Vehicle Miles Traveled VMT Factor)**

	Congestion Locations 2018	*Weighted Total Impact	Average Queue Length Miles	Average Daily Duration	Total Duration
1	EB I-64 @ I-55/I-44/US 40	39,414,913	0.77	2h 34m	9d 18h 33m
2	WB I-64 @ Hampton	37,351,551	3.52	1h 4m	4d 2h 19m
3	SB I-270 @ Dorsett Road	27,952,709	1.15	1h 29m	5d 15h 31m
4	WB I-44 @ MO-O	27,655,941	2.01	2h 9 m	8d 4h 52m
5	WB I-64 @Clayton Road	26,889,379	1.58	3h 1 m	11d 11h 59m

	Congestion Locations 2019	*Weighted Total Impact	Average Queue Length Miles	Average Daily Duration	Total Duration
1	NB I-270 @ MO 100 Manchester Road	58,808,289	6.4	40m	2d 12h 48m
2	EB I-44 @ Highway Drive Exit 275	56,013,194	1.95	3h 1m	11d 11h 18m
3	NB I-270 @ Dougherty Ferry	48,466,870	5.35	41m	13d 6h 47m
4	SB I-270 @Dougherty Ferry	47,865,705	6.02	30 m	5d 5h 30m
5	WB I-64 @ Clayton Road	43,828,958	2.32	1h 39m	6d 6h 33m

Average Incident Duration Comparison / 2018 vs. 2019

Month	Average Incident Duration (Minutes : Seconds)	2018	2019
September	Lane Clearance	26:07	22:49
September	Incident Clearance	30:09	27:41
October	Lane Clearance	26:26	24:29
October	Incident Clearance	31:03	29:20
November	Lane Clearance	30:32	31:24
November	Incident Clearance	34:35	35:23

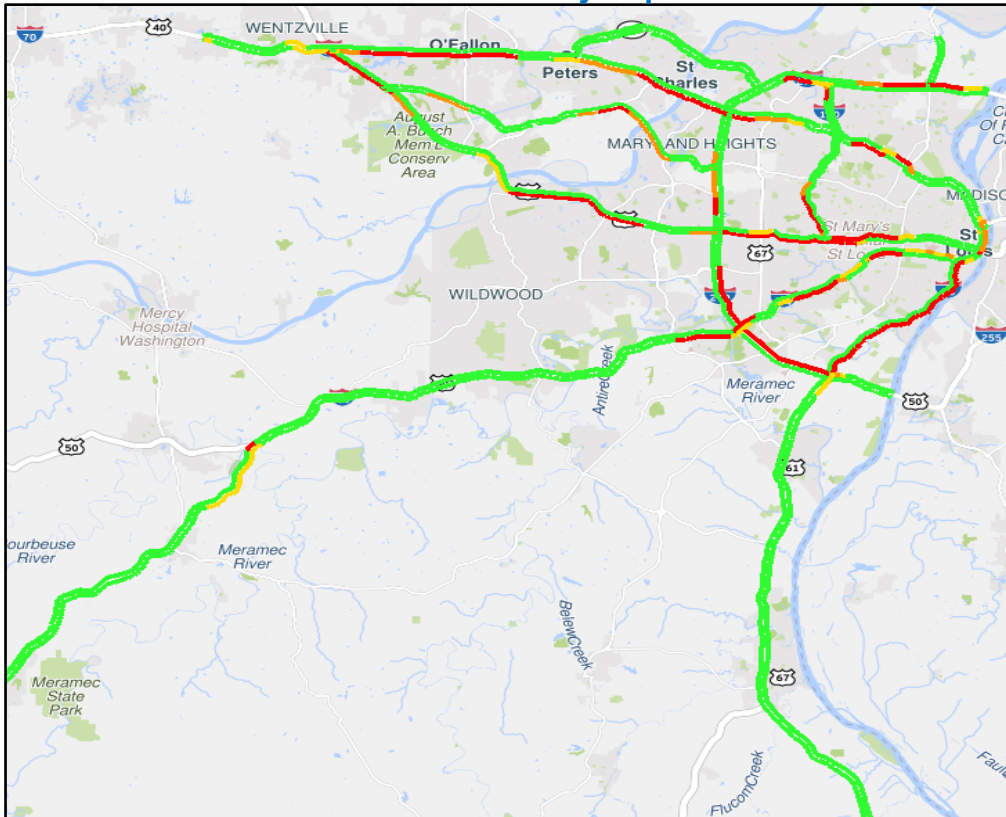


FREEWAY MANAGEMENT

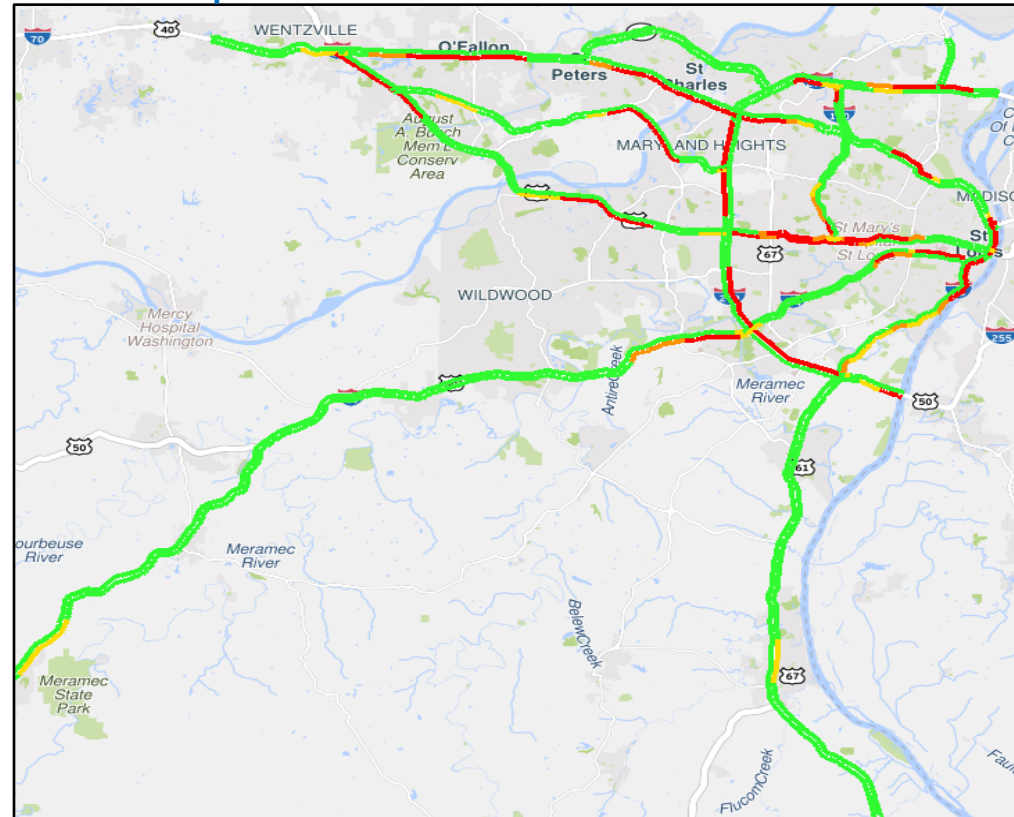
ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ SEPTEMBER / OCTOBER / NOVEMBER 2019

SLIGHT INCREASE in Overall AM Mobility

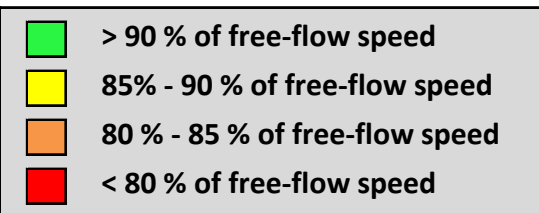
AM Peak Mobility September/October/November 2018 vs September/October/November 2019 *



2018



2019



Regional % of free-flow speed hourly breakdown**:

	2018	→	2019
6 AM	99.9%	→	100%
7 AM	91.1%	→	91.2%
8 AM	93.5%	→	93.4%
9 AM	100%	→	100%

* 7am hour shown

**Regional % of free-flow speed is the averaged % of free-flow speeds for all directions of all freeways within the St. Louis District. This provides a high-level measurement of overall regional mobility for each peak hour.

Highlighted Corridor AM Summary

I-70

Comparing AM September/October/November 2018 vs September/October/November 2019

EB I-70 AM Overall Mobility INCREASED for the AM peak from 2018 → 2019

WB I-70 AM Overall Mobility DECREASED for the AM peak from 2018 → 2019

Active I-70 Work Zones During Reporting Period

2018 AM

Date	Route	Type of Work	Location	Lanes Closed	Time
10/4	EB 70	Barrier Wall on Ramp	Ramp to EB 70 at Route U	1 of 3	7:00 PM-7:00 AM
10/5 -11/30	EB 70	Re-build ramp	Ramp to EB 70 at Route U	Ramp Closed	24 hours
10/26	EB 70	Asphalt Repairs	Between Route W and Wentzville Parkway	1 of 2	10:00 PM-6:00 AM
11/8	WB 70	Guardrail	WB 70 two outside lanes between K and TR Hughes	2 of 4	9:00 PM to 6:00 AM

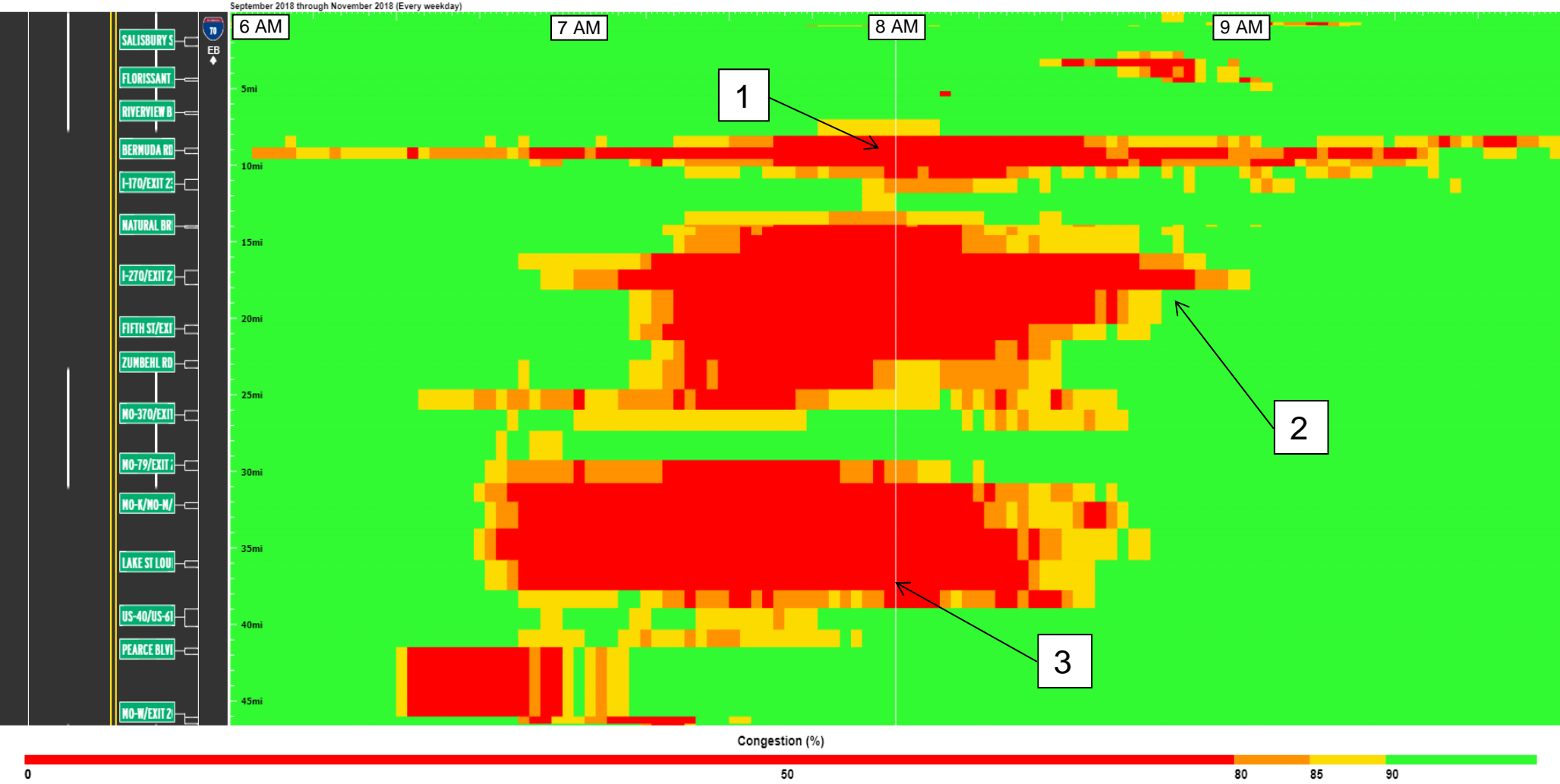
2019 AM

Date	Route	Type of Work	Location	Lanes Closed	Time
9/16 - 10/7	EB 70	Power Washing and Joint Sealing	Stan Musial Veterans Memorial Bridge	1 of 2	6:00 PM to 6:00 AM
9/30 - 10/7	WB 70	Consultant Bridge Deck Testing for Bridge Design	Branch, Angelica, Grand, Prarie, 367, Jennings Station, New Florissant, Springdale, Coldwater Creek, Cypress	1 of 3	9:00 AM to 3:00 PM
10/8 - 10/15	EB 70	Consultant Bridge Deck Testing for Bridge Design	Branch, Angelica, Grand, Prarie, 367, Jennings Station, New Florissant, Springdale, Coldwater Creek, Cypress	1 of 3	9:00 AM to 3:00 PM
10/18 - 10/21	WB 70	Drainage Work	Westbound 70 at Mid Rivers. Inside Lanes	2 of 5	24 hours
10/21 - 11/21	WB 70	Safety Inspection	WB Blanchette Bridge Left /Right Lanes	1 of 5	8:30 AM to 3:00 PM
11/21 - 11/30	EB/WB 70	Joint Repair	70 over 270 EB	1 of 3	9:00 AM to 3:00 PM



AM 2018 EB I-70

Congestion for I-70 Eastbound between St Charles/Warren County Line and Stan Musial Veterans Memorial Brg using HERE data
 Averaged by 2 minutes for September 2018 through November 2018 (Every weekday)

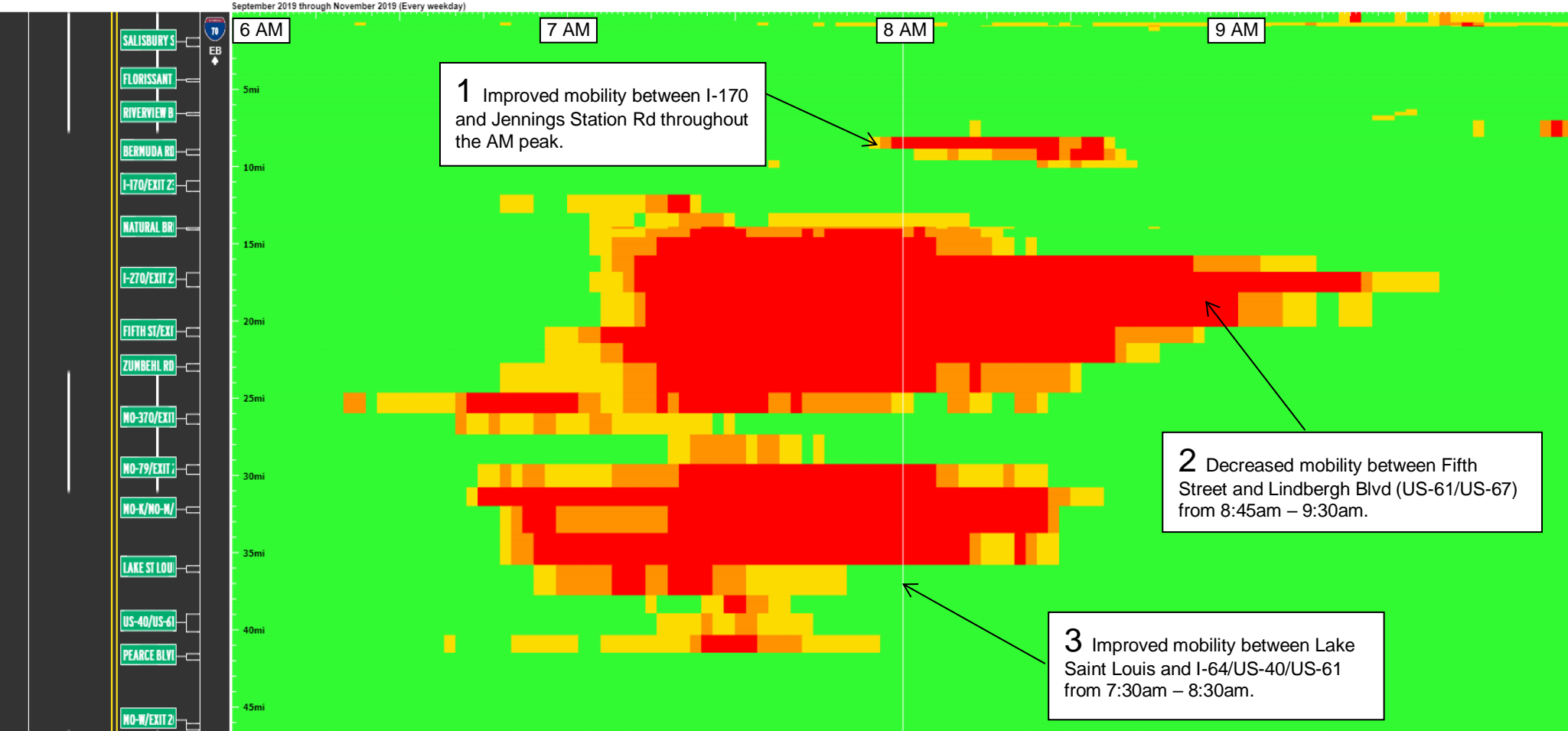




AM 2019 EB I-70

Congestion for I-70 Eastbound between St Charles/Warren County Line and Stan Musial Veterans Memorial Brg using HERE data

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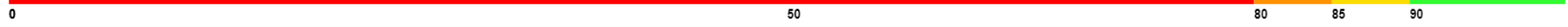


1 Improved mobility between I-170 and Jennings Station Rd throughout the AM peak.

2 Decreased mobility between Fifth Street and Lindbergh Blvd (US-61/US-67) from 8:45am - 9:30am.

3 Improved mobility between Lake Saint Louis and I-64/US-40/US-61 from 7:30am - 8:30am.

Congestion (%)





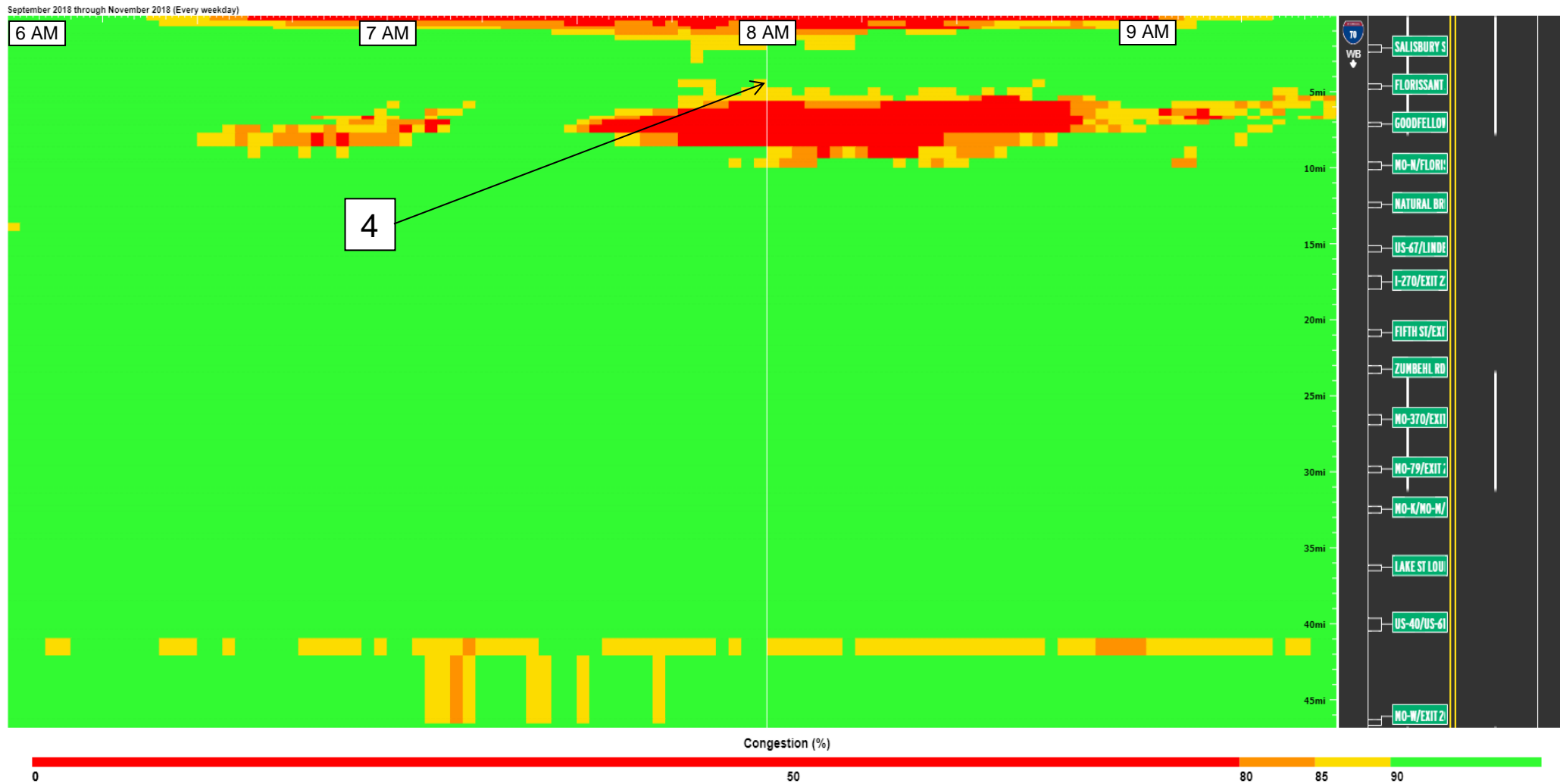
FREEWAY MANAGEMENT

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ SEPTEMBER / OCTOBER / NOVEMBER 2019

AM 2018 WB I-70

Congestion for I-70 Westbound between St Charles/Warren County Line and Stan Musial Veterans Memorial Brg using HERE data

Averaged by 2 minutes for September 2018 through November 2018 (Every weekday)



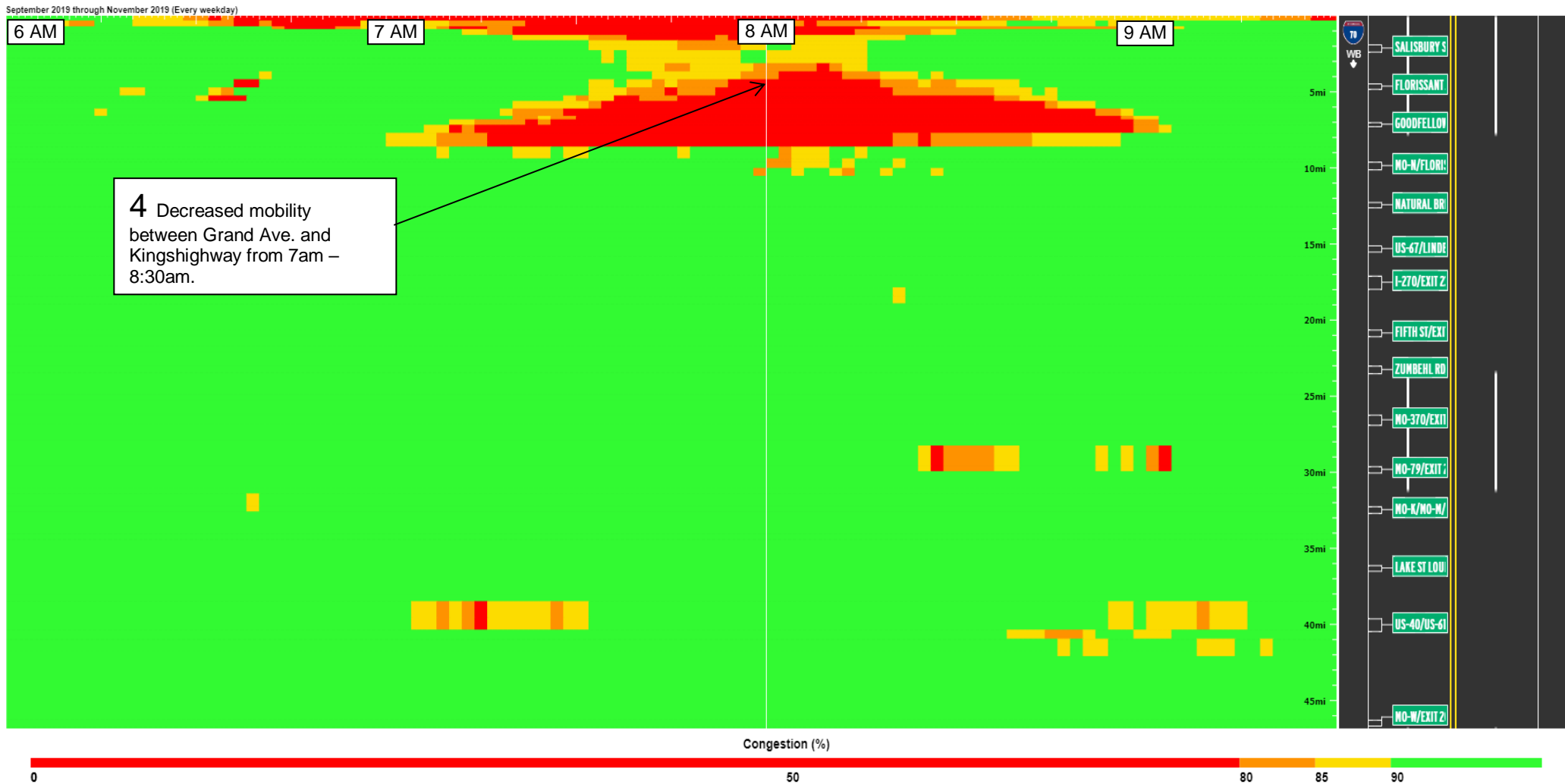


FREEWAY MANAGEMENT

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ SEPTEMBER / OCTOBER / NOVEMBER 2019

AM 2019 WB I-70

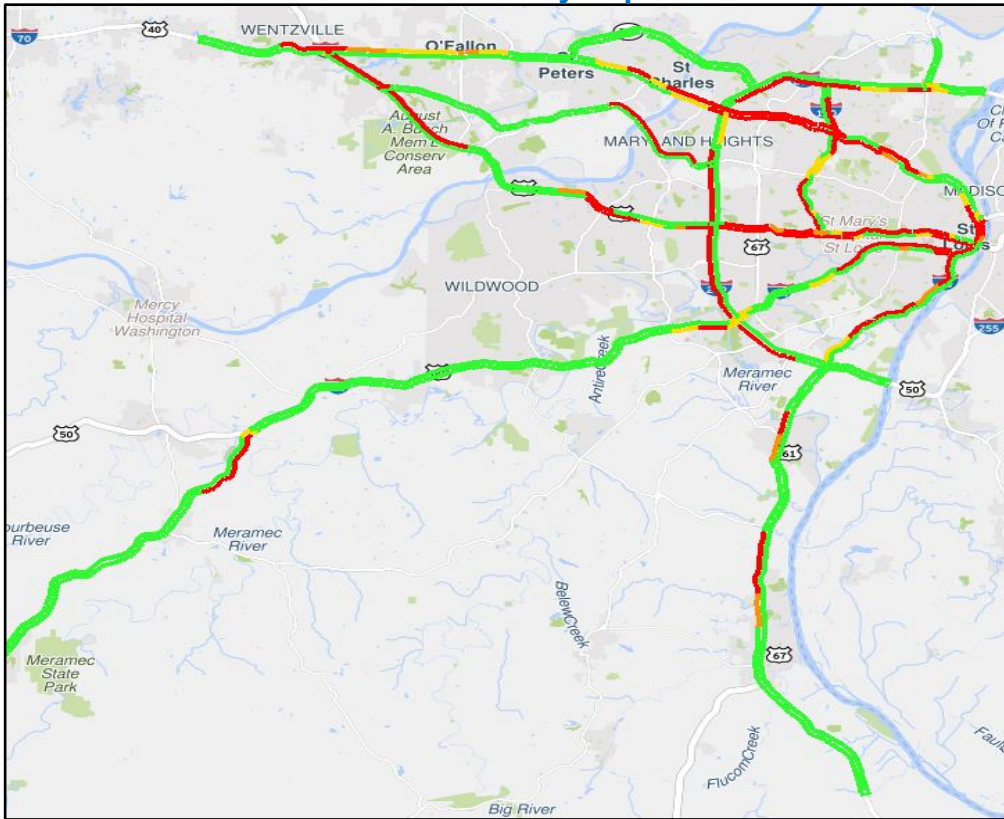
Congestion for I-70 Westbound between St Charles/Warren County Line and Stan Musial Veterans Memorial Brg using HERE data
Averaged by 2 minutes for September 2019 through November 2019 (Every weekday)



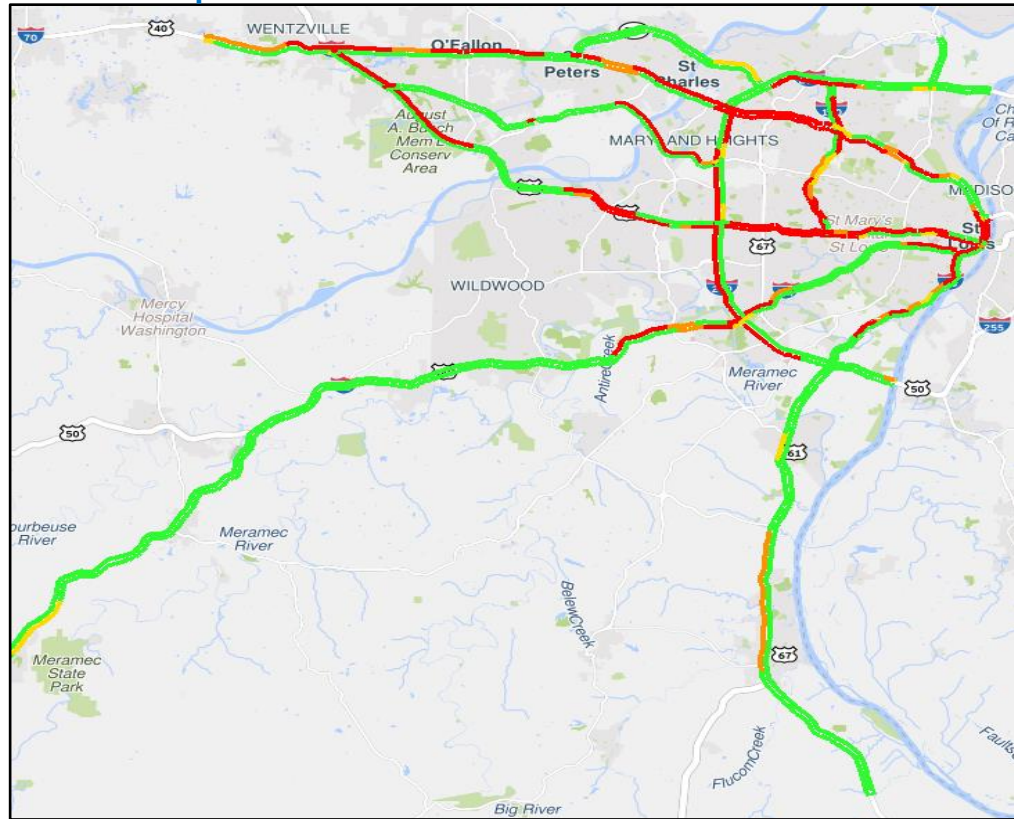


SLIGHT INCREASE in Overall PM Mobility

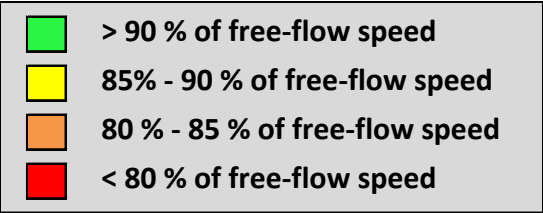
PM Peak Mobility September/October/November 2018 vs September/October/November 2019 *



2018



2019



Regional % of free-flow speed hourly breakdown:**

	2018	→	2019
3 PM	96.2%	→	95.9%
4 PM	87.5%	→	86.8%
5 PM	83.7%	→	84.5%
6 PM	96.9%	→	97.5%
7 PM	100%	→	99.7%

* 5pm hour shown

**Regional % of free-flow speed is the averaged % of free-flow speeds for all directions of all freeways within the St. Louis District. This provides a high-level measurement of overall regional mobility for each peak hour.



Highlighted Corridor PM Summary I-70

Comparing PM September/October/November 2018 vs September/October/November 2019

EB I-70 PM Overall Mobility DECREASED from 2018 → 2019, except during the 4pm and 5pm hours which saw a +2% and +1.4% increase in mobility.

WB I-70 PM Overall Mobility DECREASED throughout the PM peak from 2018 → 2019 with the largest decrease occurring during the 6pm hour (-7.8% decrease in mobility).

Active I-70 Work Zones During Reporting Period

2018 PM

Date	Route	Type of Work	Location	Lanes Closed	Time
9/10 - 10/10	EB/WB 70	Guardrail	Between Fee Fee and 5th Street	2 of 5	7:00 PM-5:00 AM
9/10 - 9/14	WB 70	WB Blanchette Bridge Flushing Contract	Blanchette Bridge	2 of 5	8:00 PM - 5:00 AM
9/12 - 9/14	EB/WB 70	Pavement Markers	EB and WB I-70 Springdale to Hanley	1 of 3 / 2 of 3	7:00 PM-5:00 AM 8:00 PM-5:00 AM
9/16-9/18	EB 70	Power Washing and Joint Sealing	Stan Musial Veterans Memorial Bridge	1 of 2	6:00 PMto 6:00 AM
9/24 - 9/26	EB 70	Pavement repairs and guardrail	NB 270 to WB 70 Closed	Ramp Closed	9:00 PM to 5:00 AM
10/4	EB 70	Barrier Wall on Ramp	Ramp to EB 70 at Route U	1 of 3	7:00 PM-7:00 AM
10/4	WB 70	Guardrail	Ramp from NB I-270 to WB I-70	Ramp Closed	9:00 PM to 5:00 AM
10/5 - 11/30	EB 70	Re-build ramp	Ramp to EB 70 at Route U	Ramp Closed	24 hours
10/25 - 10/26	EB 70	Guardrail	EB 70 at Route U Right lane	1 of 3	8:00 PM - 5:00 AM
10/25	EB 70	Pavement Leveling	EB exit ramp at Mid Rivers Route 79	Ramp Closed	8:00 PM-3:00 AM
11/1 - 11/27	EB/WB 70	Guardrail	EB and WB I-70 Right Lane Springdale Ave to Union	1 of 3	8:00 PM - 5:00 AM
11/8	WB 70	Guardrail	WB 70 two outside lanes between K and TR Hughes	2 of 4	9:00 PM to 6:00 AM
11/26 - 11/27	EB/WB 70	Guardrail	Between 5th Street and Fee Fee	1 of 5	9:00 PM-5:00 AM
11/29 - 11/30	EB/WB 70	Guardrail/Barrier Wall	Between Blanchette and Fee Fee	1 of 5	9:00 PM-1:00 PM 9:00 PM-5:00 AM

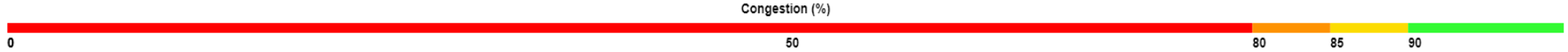
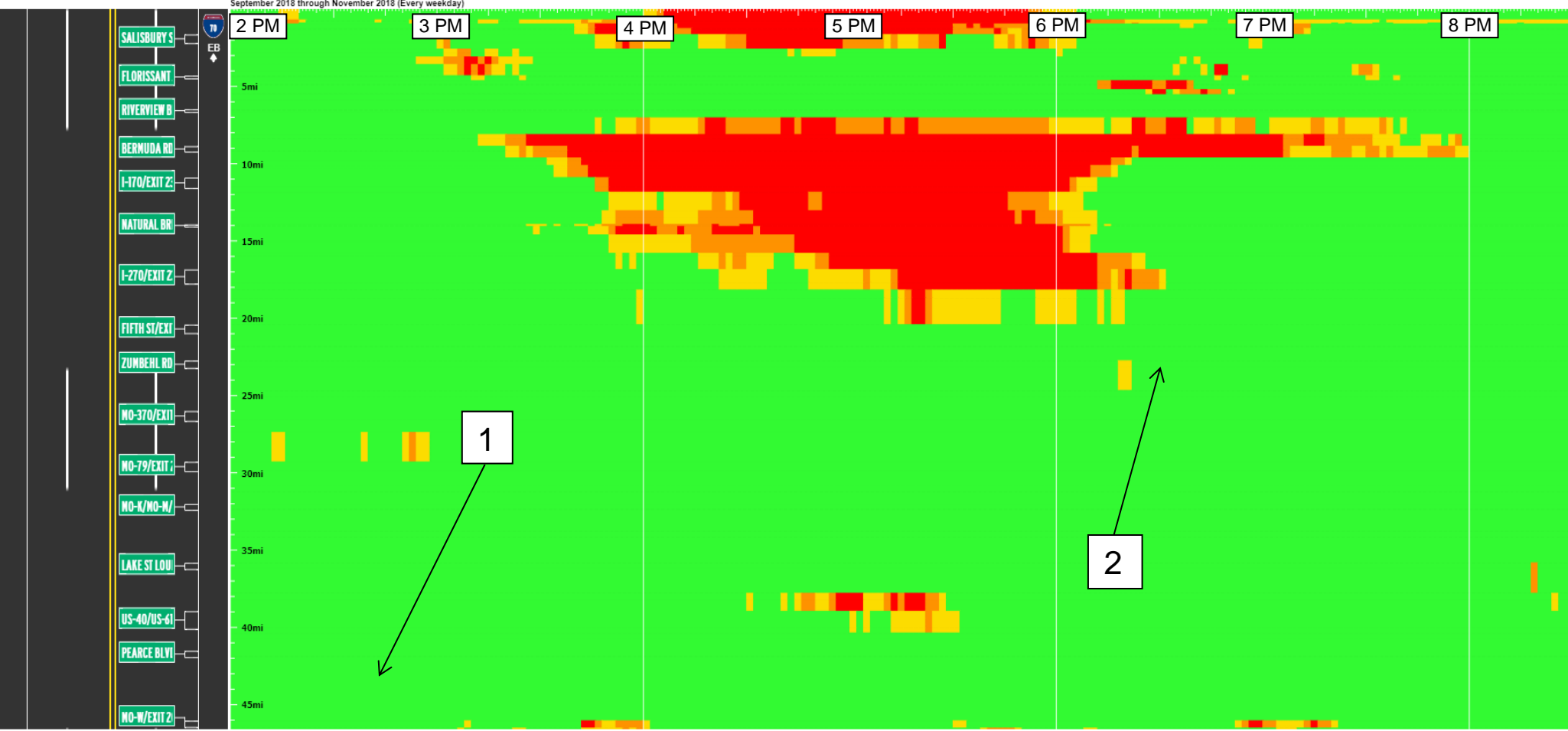
2019 PM

Date	Route	Type of Work	Location	Lanes Closed	Time
9/12 - 10/9	EB/WB 70	Pavement Markers	EB and WB I-70 Springdale to Hanley	2 of 3 1 of 3	7:00 PM-5:00 AM 8:00 PM-5:00 AM
9/16 - 10/7	EB 70	Power Washing and Joint Sealing	Stan Musial Veterans Memorial Bridge	1 of 2	6:00 PM to 6:00 AM
9/30 - 10/7	WB 70	Consultant Bridge Deck Testing for Bridge Design	Branch, Angelica, Grand, Prarie, 367, Jennings Station, New Florissant, Springdale, Coldwater Creek, Cypress	1 of 3	9:00 AM to 3:00 PM
10/8 - 10/15	EB 70	Consultant Bridge Deck Testing for Bridge Design	Branch, Angelica, Grand, Prarie, 367, Jennings Station, New Florissant, Springdale, Coldwater Creek, Cypress	1 of 3	9:00 AM to 3:00 PM
10/18 - 10/21	WB 70	Drainage Work	Westbound 70 at Mid Rivers. Inside Lanes	2 of 5	24 hours
11/21 - 11/30	EB/WB 70	Joint Repair	70 over 270 EB	1 of 3	9:00 AM to 3:00 PM



PM 2018 EB I-70

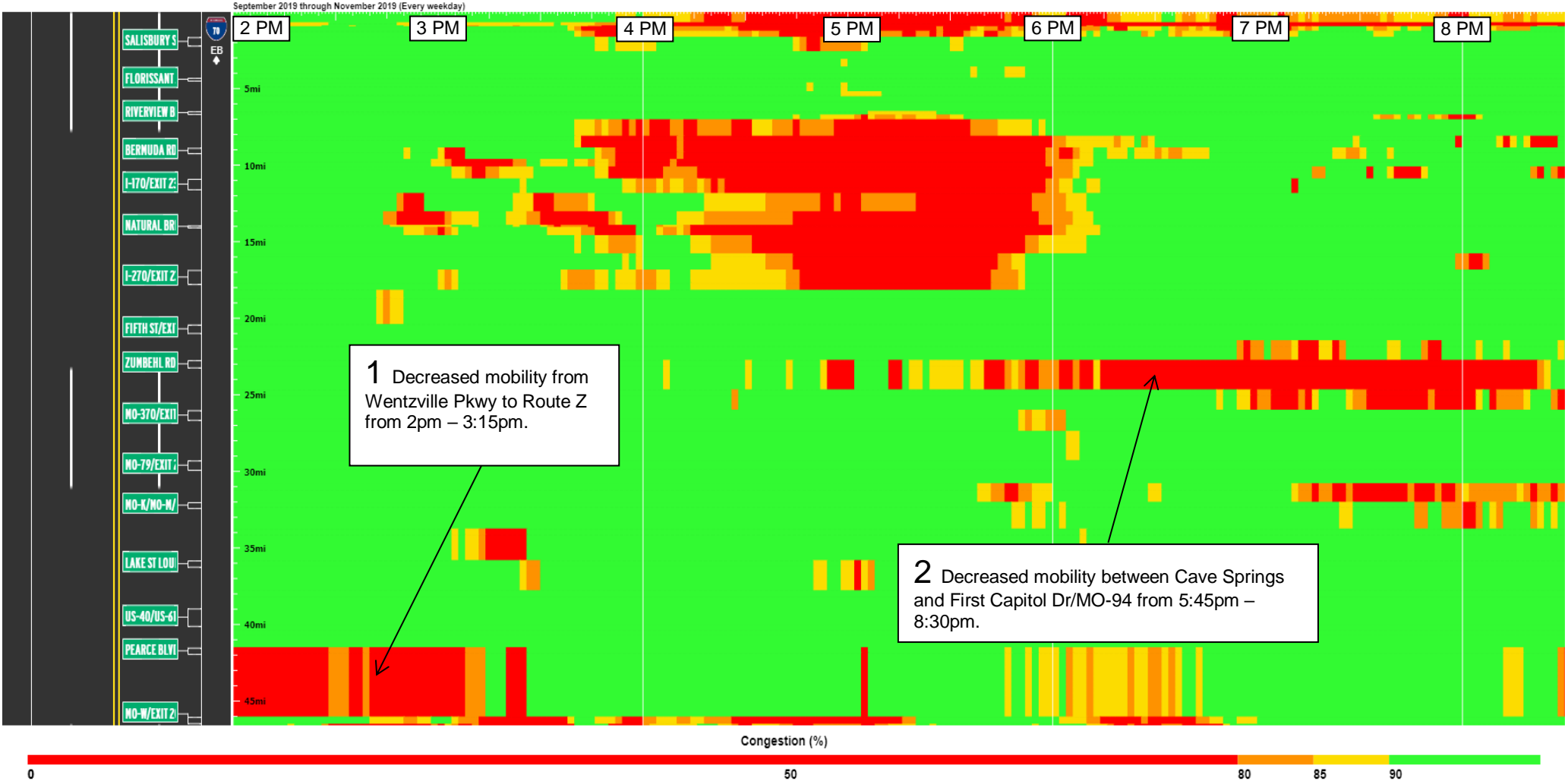
Congestion for I-70 Eastbound between St Charles/Warren County Line and Stan Musial Veterans Memorial Brg using HERE data
 Averaged by 2 minutes for September 2018 through November 2018 (Every weekday)





PM 2019 EB I-70

Congestion for I-70 Eastbound between St Charles/Warren County Line and Stan Musial Veterans Memorial Brg using HERE data
 Averaged by 2 minutes for September 2019 through November 2019 (Every weekday)





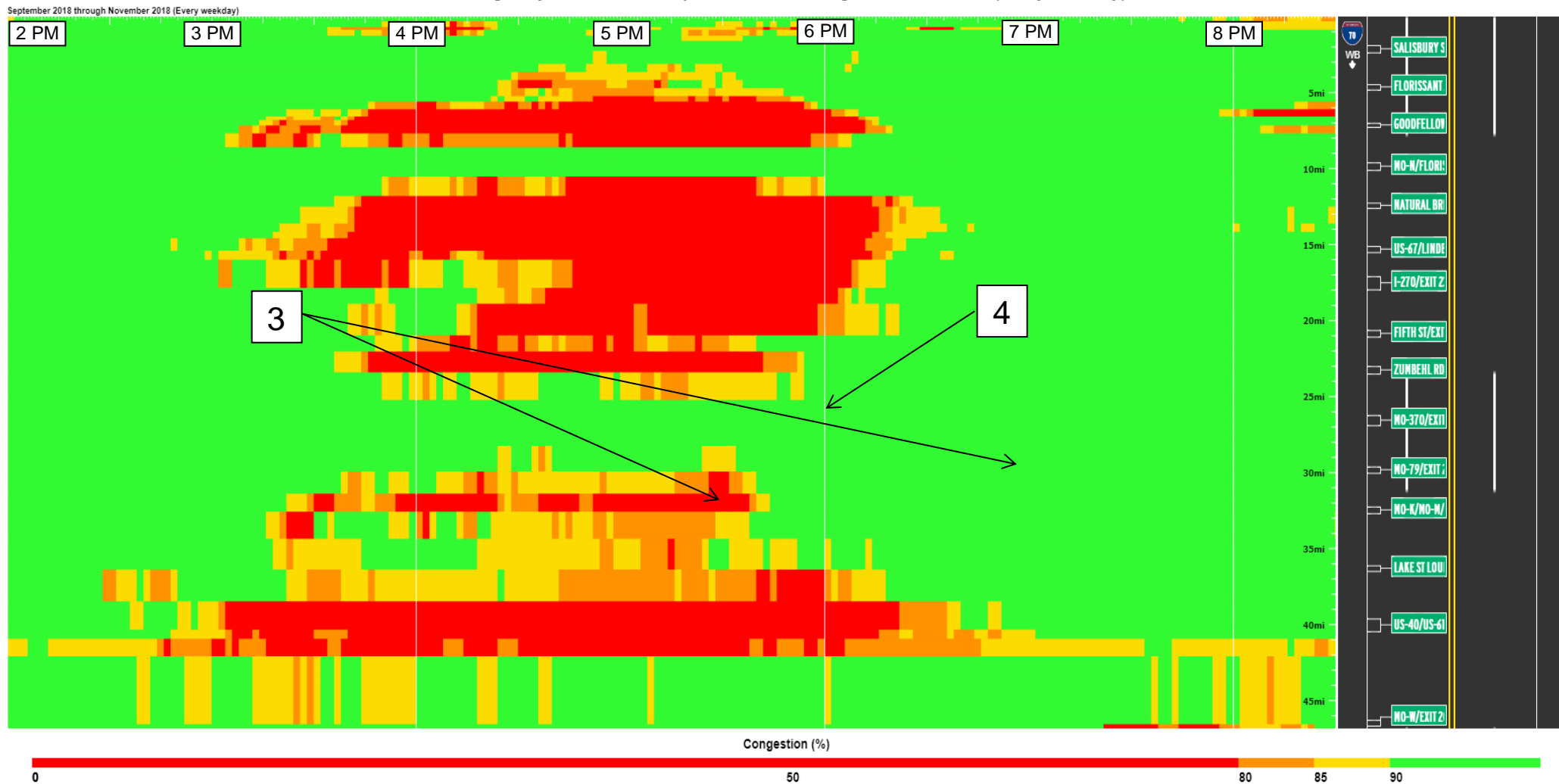
FREEWAY MANAGEMENT

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ SEPTEMBER / OCTOBER / NOVEMBER 2019

PM 2018 WB I-70

Congestion for I-70 Westbound between St Charles/Warren County Line and Stan Musial Veterans Memorial Brg using HERE data

Averaged by 2 minutes for September 2018 through November 2018 (Every weekday)





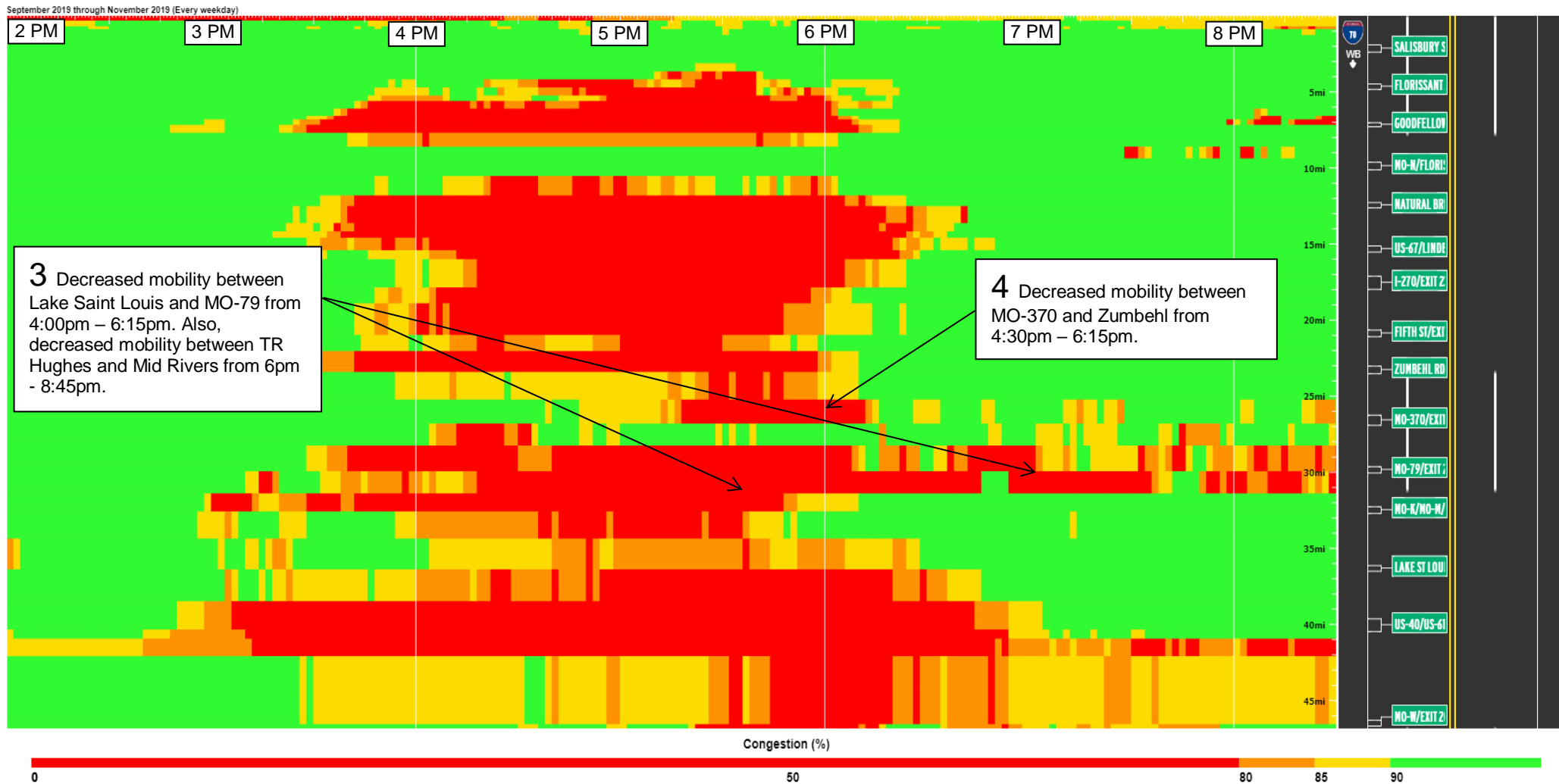
FREEWAY MANAGEMENT

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ SEPTEMBER / OCTOBER / NOVEMBER 2019

PM 2019 WB I-70

Congestion for I-70 Westbound between St Charles/Warren County Line and Stan Musial Veterans Memorial Brg using HERE data

Averaged by 2 minutes for September 2019 through November 2019 (Every weekday)





WORK ZONE MANAGEMENT

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ SEPTEMBER / OCTOBER / NOVEMBER 2019



TMC Observed Work Zones

	September 2019	October 2019	November 2019
Level of Travel Time Impact	Number of Work Zones	Number of Work Zones	Number of Work Zones
Major Impact	15	10	6
Moderate Impact	18	14	6
Minor Impact	267	299	137
Total	300	323	149



WORK ZONE MANAGEMENT

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ SEPTEMBER / OCTOBER / NOVEMBER 2019



Additional Travel Time Impacts through Work Zones

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

(Daily) Eastbound I-44 from Arsenal to Jefferson

- Two lanes of traffic open Eastbound
- All mitigation efforts were in use

1 **1**

(Daily) Westbound I-44 from I-55 to Hampton

- Two lanes of traffic open Westbound
- All mitigation efforts were in use

4 **6**

(Daily) Westbound I-44 at I-270

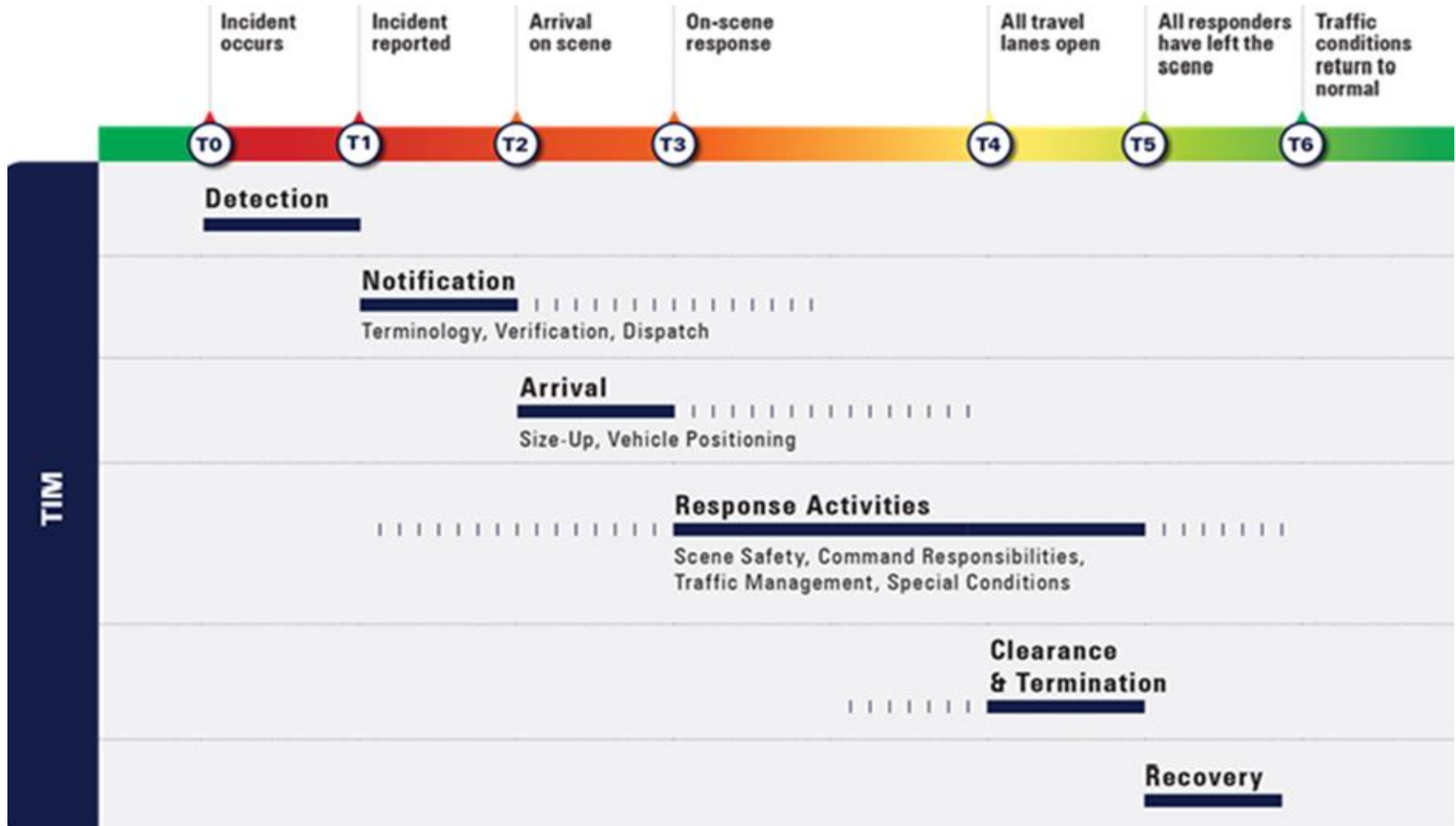
- New bridge construction
- All mitigation efforts were in use

12 **11**

(Daily) Eastbound I-44 at I-270

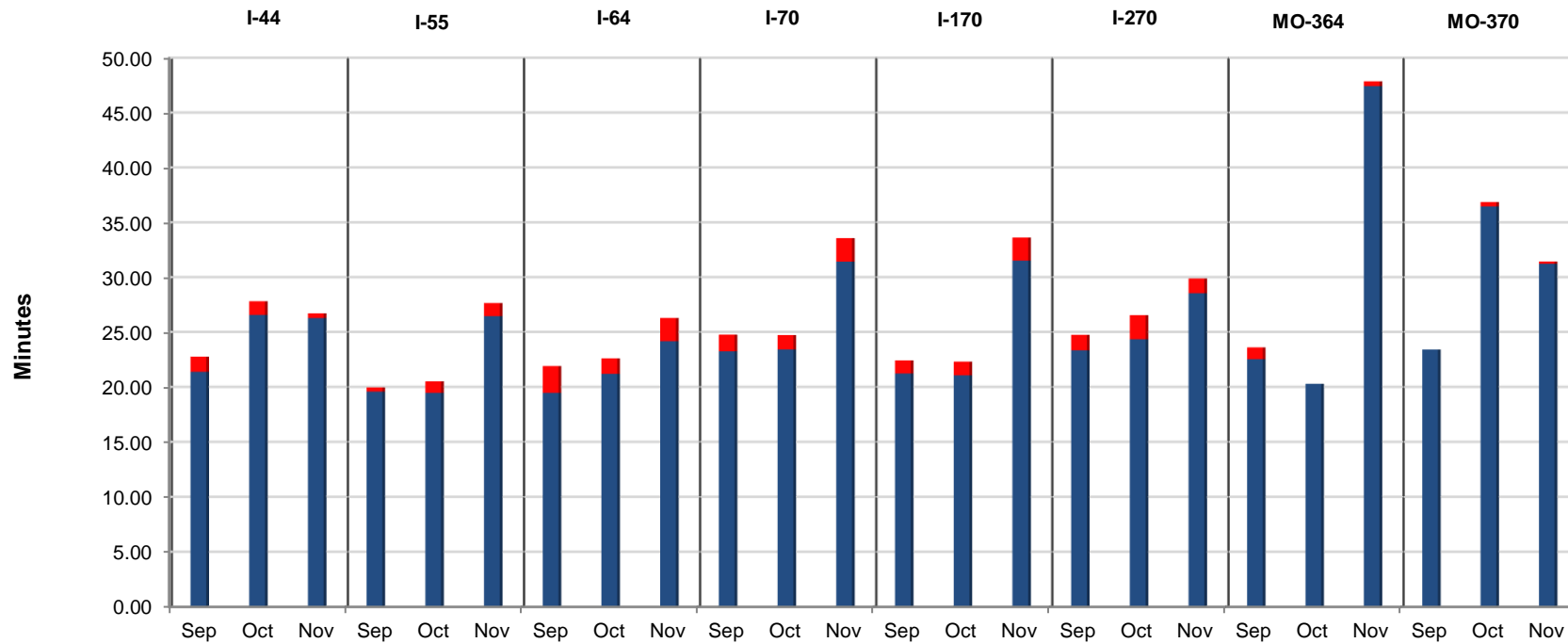
- New bridge construction
- All mitigation efforts were in use

14 **20**





September / October / November 2019 Incidents Summary



■ Average Time for Backup to Clear = T6 - T4

■ Average Time to Clear Incident from Lanes = T4 - T1



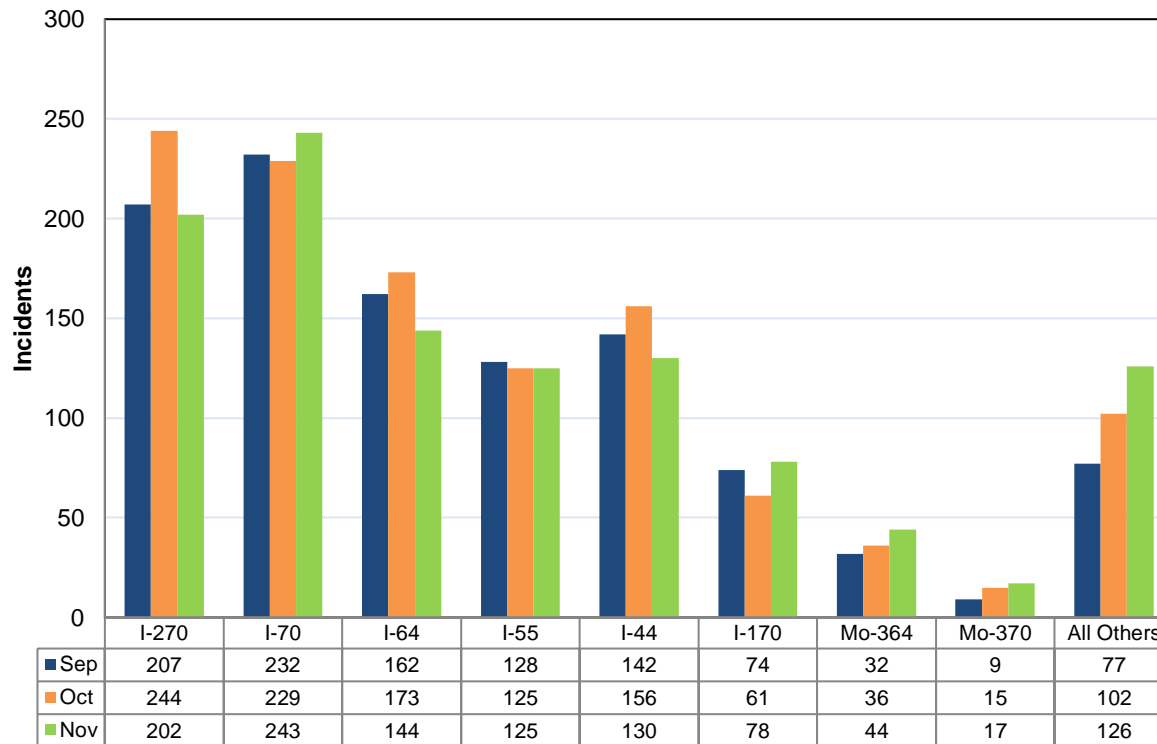
INCIDENT MANAGEMENT

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Total Number of Incidents: / September: 1063 / October: 1141 / November: 1109

Total Number of Lane Blocking Incidents



Major Impact Incidents

Sep	Oct	Nov
(4)	(2)	(1)

Fatal Incidents

Sep	Oct	Nov
(7)	(7)	(5)

Tractor Trailer Incidents

Sep	Oct	Nov
(60)	(66)	(81)



INCIDENT MANAGEMENT

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ SEPTEMBER / OCTOBER / NOVEMBER 2019



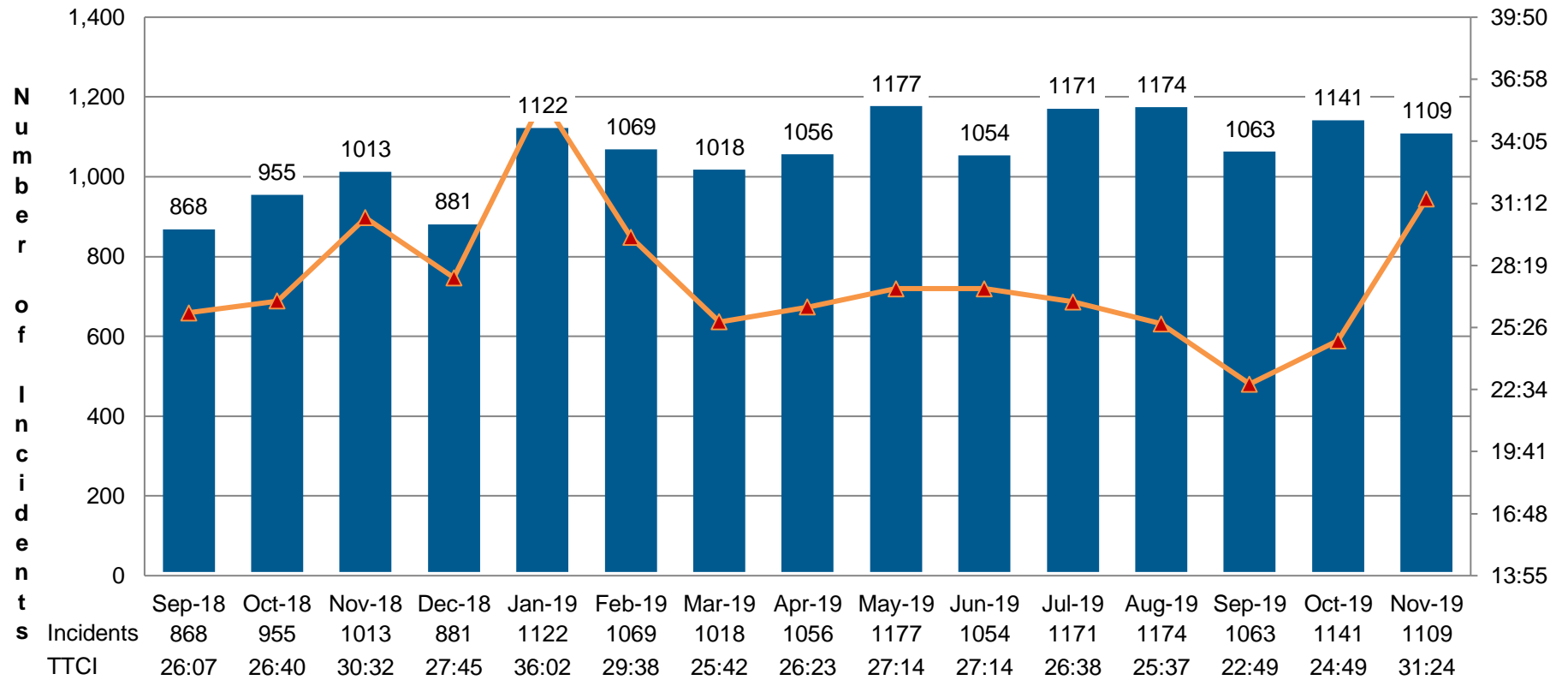
Lane Blocking Incidents by Freeway September, October and November 2019

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	September	142	21:37	01:38	33	4.30
I-44	October	156	26:55	01:25	33	4.73
I-44	November	130	26:26	00:44	33	3.94
I-55	September	128	19:57	00:38	23	5.57
I-55	October	125	19:46	01:05	23	5.43
I-55	November	125	26:44	01:19	23	5.43
I-64	September	162	19:46	02:44	40	4.05
I-64	October	173	21:19	01:41	40	4.33
I-64	November	144	24:16	02:11	40	3.60
I-70	September	232	23:23	01:53	38	6.11
I-70	October	229	23:41	01:31	38	6.03
I-70	November	243	31:41	02:14	38	6.39
I-170	September	74	21:22	01:19	11	6.73
I-170	October	61	21:05	01:25	11	5.55
I-170	November	78	31:50	02:10	11	7.09
I-270	September	207	23:33	01:41	36	5.75
I-270	October	244	24:34	02:19	36	6.78
I-270	November	202	28:53	01:34	36	5.61
MO-364	September	32	22:52	01:07	11	2.91
MO-364	October	36	20:28	00:00	11	3.27
MO-364	November	44	47:41	00:40	11	4.00
MO-370	September	9	23:40	00:00	13	0.69
MO-370	October	15	36:44	00:40	13	1.15
MO-370	November	17	31:21	00:21	13	1.31
Total	Sep/Oct/Nov	3008	25:49	01:21	615	4.89



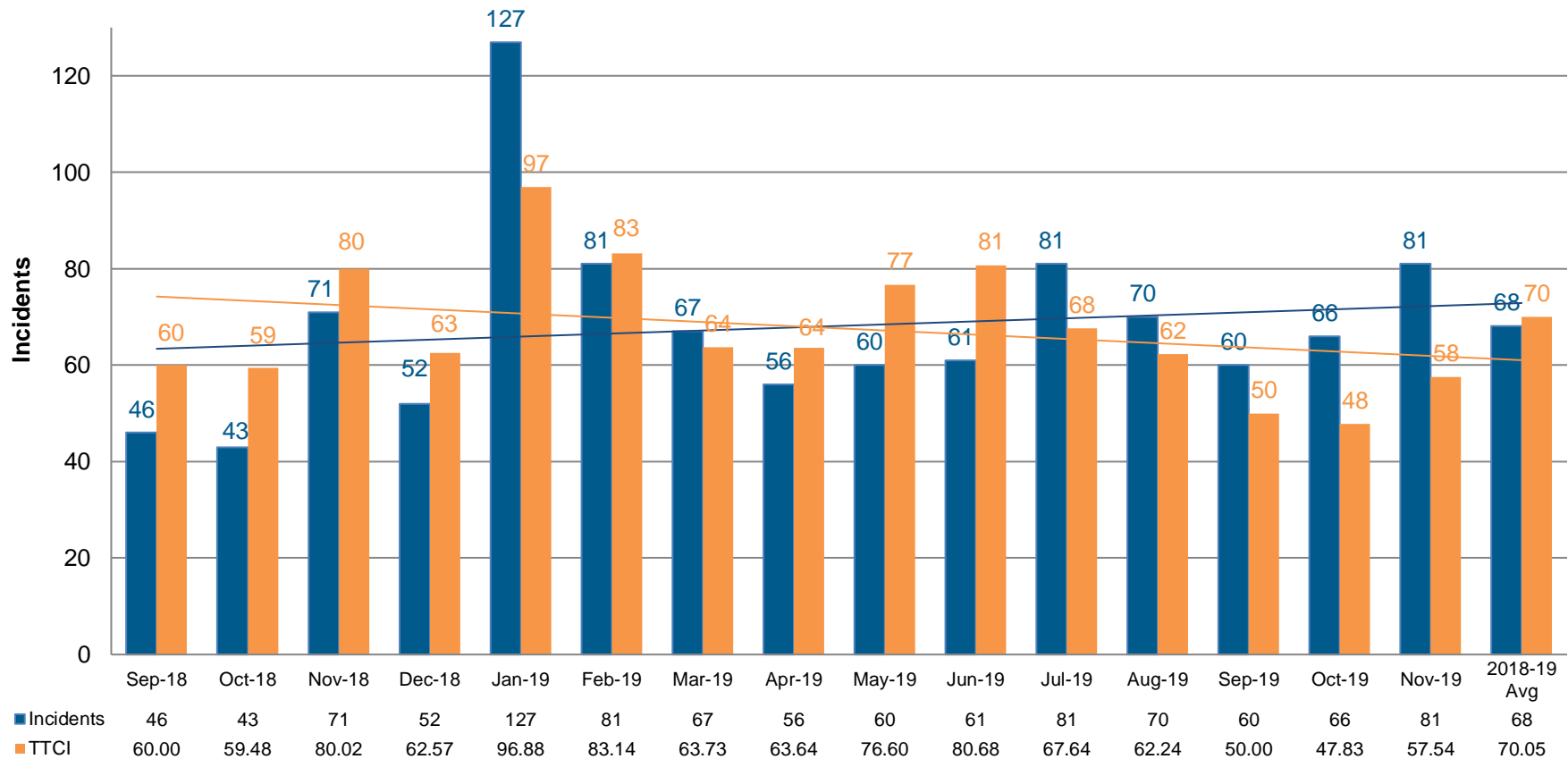
Number of Incidents and Time to Clear Lanes

Time to Clear Incidents





2018 – 2019 Number of Tractor Trailer Incidents / Time to Clear





INCIDENT MANAGEMENT

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ SEPTEMBER / OCTOBER / NOVEMBER 2019



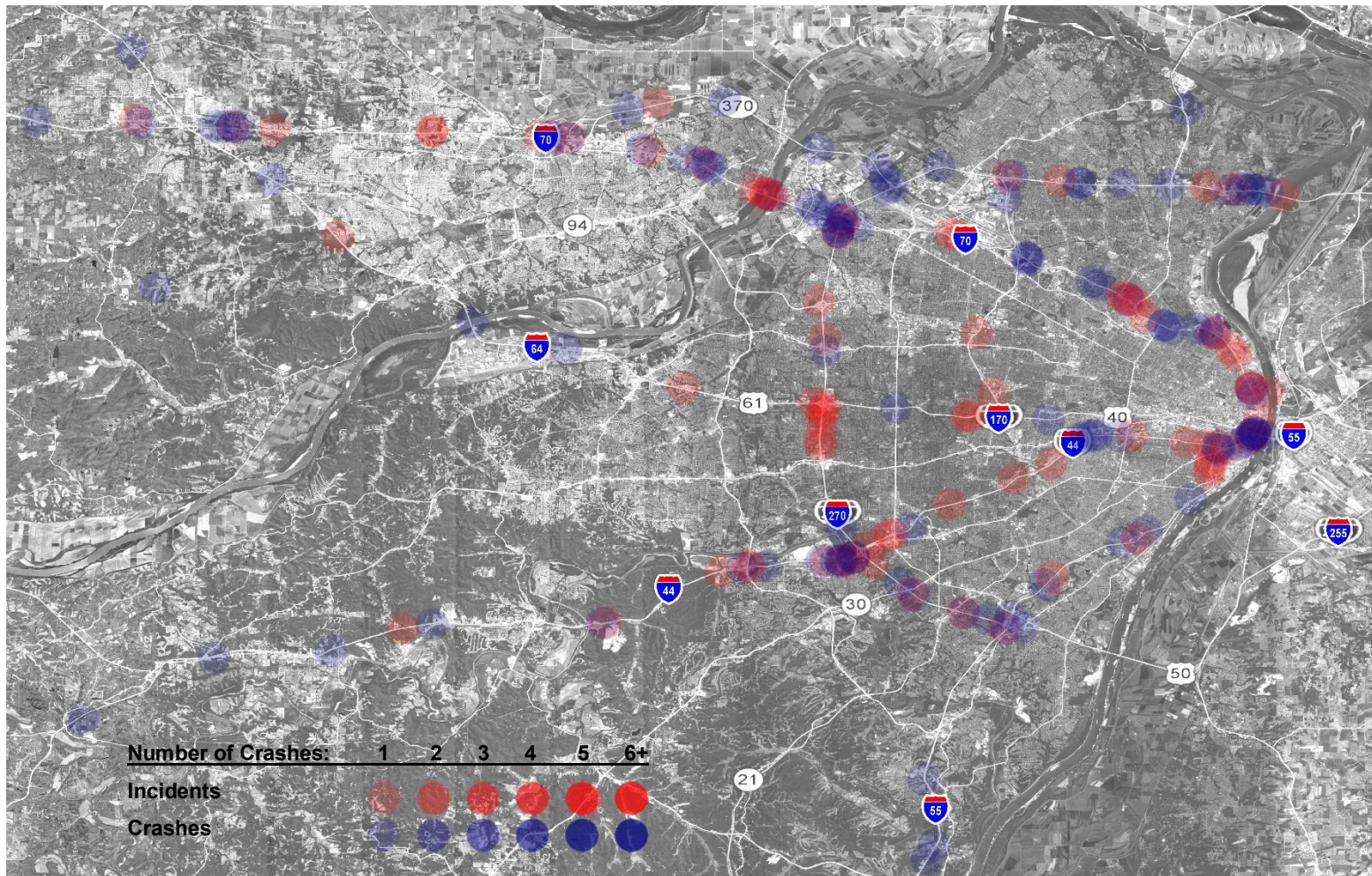
2019 Tractor Trailer Incidents by Route

2019	I-44	I-55	I-64	I-70	I-170	I-255/I-270	Route 364	Route 370	Other	Total
Jan	32	11	23	35	4	13	1	2	6	127
Feb	22	10	6	24	2	14	0	2	1	81
Mar	19	5	5	15	0	15	1	3	4	67
Apr	20	3	8	14	1	5	0	0	5	56
May	18	4	8	16	0	13	0	0	1	60
Jun	22	5	6	12	0	12	0	2	2	61
Jul	28	10	10	15	1	13	0	0	4	81
Aug	20	10	6	15	1	12	0	2	4	70
Sep	16	9	5	16	1	10	0	2	1	60
Oct	21	6	4	15	2	16	0	0	2	66
Nov	11	6	5	31	1	19	0	4	4	81
Dec										

Yearly Total	229	79	86	208	13	142	2	17	34	810
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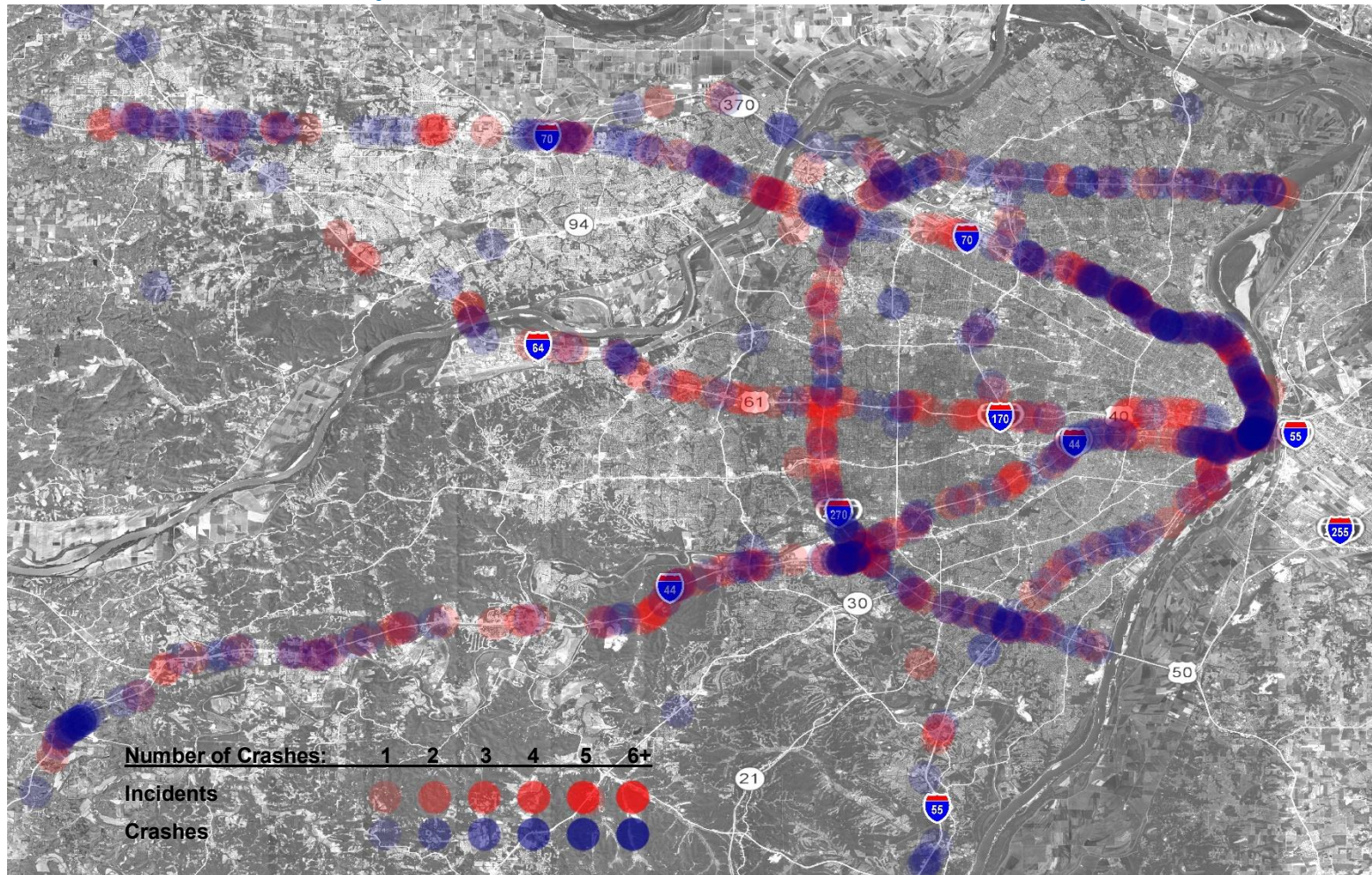


September/October/November 2019 Tractor Trailer Incidents Map





January 2019 – November 2019 Tractor Trailer Incidents Map





INCIDENT MANAGEMENT

ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ SEPTEMBER / OCTOBER / NOVEMBER 2019



Incidents over Two Hours September / October / November 2019

Incidents in red denote high mobility impact

#	Date & Time	Day of Week	Route	Location	Description	Duration HH/MM
1	9/1/2019 1:18	Sunday	I-70 WB	BEFORE GRAND AVE	Fatal motorcycle crash with reconstruction	4:15
2	9/3/2019 7:35	Tuesday	W D RT		Two-vehicle crash motorcycle vs. tractor trailer	2:18
3	9/8/2019 5:00	Sunday	I-44 WB	BEFORE US 50 WEST	Two tractor trailer crash with large amount of debris	2:29
4	9/11/2019 6:36	Wednesday	I-44 WB	ON RAMP FROM I-64 WB	Single vehicle tractor trailer crash oil from vehicle and material leak from load with pavement damage	4:16
5	9/11/2019 13:12	Wednesday	I-255 WB	BEFORE TELEGRAPH RD	Truck carrying 73,000 pounds of chocolate caught fire and had to be unloaded	5:04
6	9/14/2019 15:14	Saturday	US 67 SB	AT PLAZA FRONTENAC	Two vehicle crash SUV vs. motorcycle with reconstruction	3:36
7	9/16/2019 19:01	Monday	I-55 SB	PAST RICHARDSON RD	Two vehicle crash SUV vs tractor trailer with ruptured fuel line and 80-gallon fuel leak cleanup	3:37
8	9/17/2019 0:23	Tuesday	S AC RT	CROSS KEYS DR CST	Single vehicle fatal hit and run of pedestrian crash with reconstruction	3:08
9	9/18/2019 22:55	Wednesday	N CLARKSON RD CST	BAXTER RD CST	Single vehicle fatal crash with reconstruction	2:49
10	9/25/2019 13:09	Wednesday	I-70 EB	PAST WENTZVILLE PKWY	Hot dog debris in roadway	2:00
11	9/25/2019 16:33	Wednesday	I-70 WB	PAST UNION	Stalled tractor trailer with 200-gallon diesel fuel spill from both fuel tanks	2:35
12	9/29/2019 21:52	Sunday	I-270 SB	BEFORE LADUE RD	Three-vehicle fatal crash with reconstruction	3:42
13	10/3/2019 9:19	Thursday	MO 370 WB	BEFORE TRUMAN BLVD	Two-vehicle crash vehicle struck a MoDOT TMA	2:24
14	10/8/2019 14:58	Tuesday	US 67 SB	PAST BUCK CREEK RD	Two-vehicle fatal crash with reconstruction	3:25
15	10/8/2019 15:13	Tuesday	US 67 NB	PAST BUCK CREEK RD	Two-vehicle fatal crash with reconstruction	3:08
16	10/10/2019 4:48	Thursday	I-44 WB	PAST ROUTE JJ/W	Overtaken tractor trailer with injuries	7:12
17	10/17/2019 10:18	Thursday	LUCAS & HUNT RD CST	CRUSA	Two-vehicle crash with injuries	3:55
18	10/17/2019 12:37	Thursday	I-70 WB	TO WEST FLORISSANT AVE	Emergency vehicles for police investigation	2:30
19	10/17/2019 12:38	Thursday	I-70 WB	ON RAMP FROM W FLORISSANT AVE	Emergency vehicles for police investigation	2:29



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#	Date & Time	Day of Week	Route	Location	Description	Duration HH/MM
20	10/17/2019 12:46	Thursday	S WEST FLORISSANT AVE	AT I-70	Emergency vehicles for an on-going police investigation by MSHP and SLMPD	2:17
21	10/21/2019 6:03	Monday	I-64 EB	AT MISSISSIPPI RIVER	Single-vehicle tractor trailer hauling 60,000lbs of steel had a large piece of steel impact cab causing injuries to a child passenger	2:29
22	10/23/2019 16:14	Wednesday	I-64 WB	ON RAMP FROM ROUTE N	Single-vehicle fatal motorcycle crash	2:09
23	10/30/2019 7:21	Wednesday	MO 21 EB	AT RT M/MM	Single-vehicle fatal pick-up truck crash with ejection	2:40
24	10/30/2019 16:24	Wednesday	I-44 EB	PAST I-64	Single-vehicle tractor trailer crash vehicle struck railroad trestle bridge	2:28
25	11/1/2019 7:55	Friday	MO 364 EB	AT I-270	Two-vehicle crash with reconstruction because of serious injuries	3:41
26	11/2/2019 0:04	Saturday	I-170 NB	TO BOEING RD	Single-vehicle crash with serious injuries	2:08
27	11/2/2019 13:05	Saturday	I-70 WB	AT MISSOURI RIVER	Stalled vehicle a tractor trailer ran out of fuel	2:31
28	11/3/2019 0:36	Sunday	I-270 WB	PAST RIVERVIEW DR	Multi-vehicle crash involving four tractor trailers, one truck hauling a load of cabs with one of the cabs falling off and debris covered all lanes	2:17
29	11/3/2019 23:50	Sunday	I-70 EB	ON RAMP FROM JENNINGS STATION RD	Two-vehicle crash with ejection three injuries and reconstruction	2:01
30	11/8/2019 20:01	Friday	I-55 SB	PAST US 61	Multi-vehicle crash involving a UPS truck multiple tows needed, state damage and an air evacuation	2:19
31	11/9/2019 0:41	Saturday	I-55 SB	AT WEBER RD	Single-vehicle event with police closing lanes	3:34
32	11/9/2019 0:47	Saturday	I-55 SB	TO WEBER RD	Single-vehicle fatal crash with reconstruction	3:25
33	11/11/2019 13:35	Monday	ROUTE 367 SB	AT REDMAN AVE	Multi-vehicle crash with a fire responder (pedestrian) struck as part of the crash response	2:45
34	11/11/2019 15:52	Monday	MO 370 WB	BEFORE TRUMAN BLVD	Two-vehicle crash car vs. SUV	2:20
35	11/11/2019 17:25	Monday	MO 364 EB	PAST ROUTE K	Single-vehicle crash	2:38



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#	Date & Time	Day of Week	Route	Location	Description	Duration HH/MM
36	11/11/2019 18:08	Monday	MO 364 WB	PAST BENNINGTON PL	Stalled vehicle with delayed response because of snow and numerous incidents	4:20
37	11/11/2019 18:24	Monday	I-70 EB	BEFORE MO 370	Single-vehicle crash with delayed response because of snow and numerous incidents	3:55
38	11/11/2019 18:31	Monday	N A RT	Eagle Ridge	Multi-vehicle crash	3:14
39	11/11/2019 18:42	Monday	I-70 EB	TO LINDBERGH BLVD NB	Stalled SUV	2:20
40	11/11/2019 19:37	Monday	MO 364 EB	PAST MARYLAND HEIGHTS EXPWY	Emergency vehicles responding to multiple stalled vehicles because of the winter weather	3:47
41	11/11/2019 20:37	Monday	I-270 EB	AT LILAC AVE	Two-vehicle crash roadway treated for winter weather up and over diversion created	6:03
42	11/11/2019 21:20	Monday	I-70 WB	PAST TR HUGHES BLVD	Two-vehicle crash tractor trailers blocking right lane	4:52
43	11/11/2019 21:40	Monday	I-270 EB	PAST LILAC AVE	Emergency vehicles shut down lanes for treating roadway with multiple vehicles off roadway	3:12
44	11/13/2019 3:17	Wednesday	I-70 EB	BEFORE O'FALLON PARK	Single-vehicle crash vehicle behind guardrail	2:08
45	11/14/2019 7:41	Thursday	I-70 EB	PAST MO 141	Two-vehicle crash car vs box truck	2:30
46	11/15/2019 22:26	Friday	I-270 EB	PAST MO 367	Multi-vehicle crash with responder vehicles struck while trying to clear initial event and reconstruction	3:59
47	11/18/2019 18:44	Monday	S 267 MO	W VICTORY DR CRD	Single-vehicle fatal pedestrian in wheel chair struck	3:01
48	11/20/2019 12:54	Wednesday	100 MO	BERGER RD CST	Overtaken tractor trailer crash with fuel leak	6:38
49	11/20/2019 14:28	Wednesday	I-44 WB	ON RAMP FROM KINGSHIGHWAY BLVD	Cement truck overturned tires had to be changed before it could be towed	2:03
50	11/21/2019 10:51	Thursday	I-270 WB	PAST ELIZABETH AVE	Tractor trailer lost load of solid steel pipes	2:58
51	11/24/2019 15:33	Sunday	21 MO	E LIBERTY RIDGE RD CRD	Car vs. motorcycle fatal crash with reconstruction	2:51
52	11/26/2019 10:18	Tuesday	US 61 NB	AT RT P	Single vehicle tractor trailer crash	3:04
53	11/26/2019 10:34	Tuesday	N BB RT	N THREE B RD CRD	Single vehicle crash with downed power lines	3:33
54	11/28/2019 14:34	Thursday	I-270 NB	BEFORE MO 370	Two-vehicle crash with injuries and fluid cleanup	2:29



INCIDENT MANAGEMENT

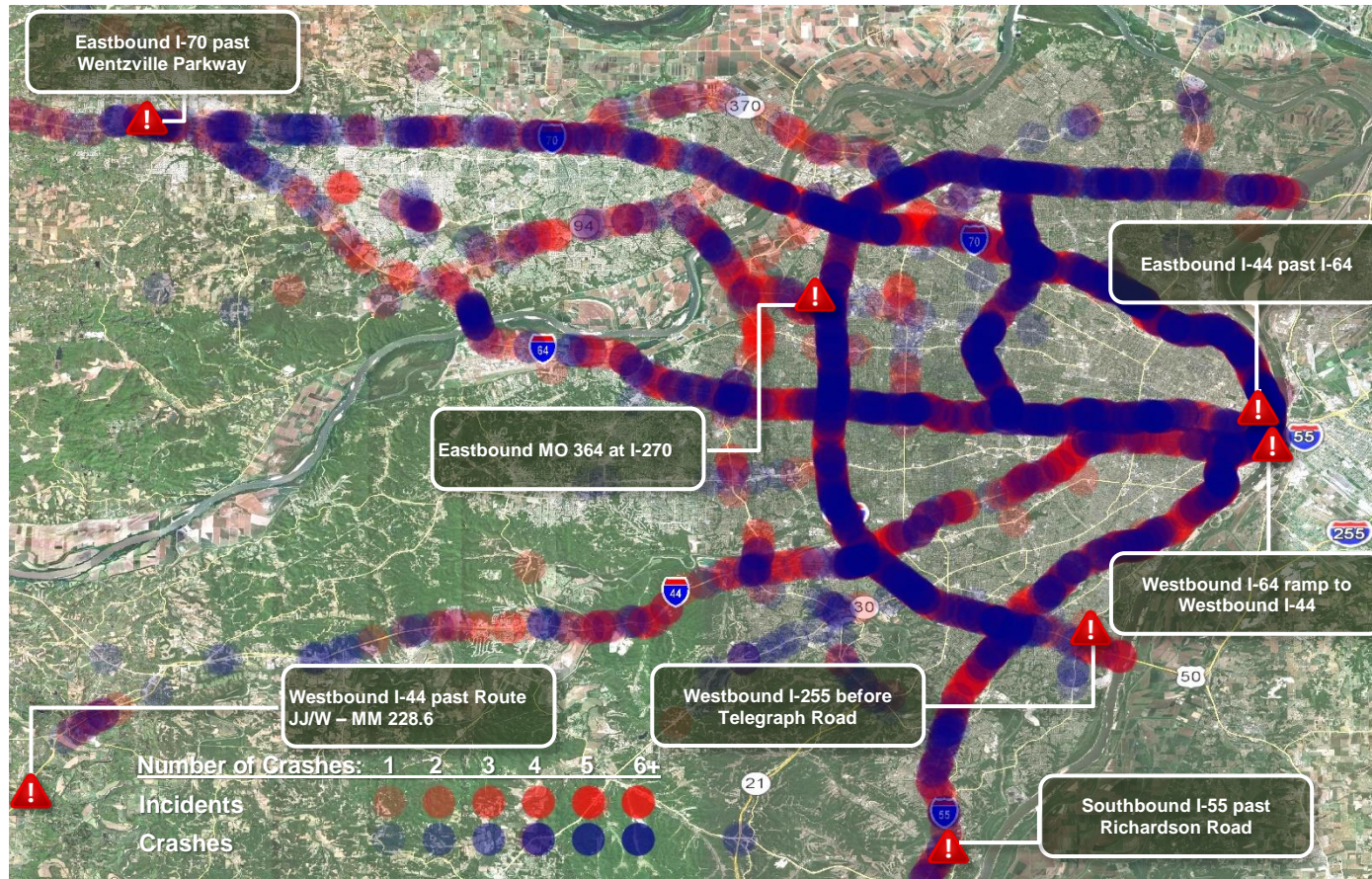
ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ SEPTEMBER / OCTOBER / NOVEMBER 2019



#	Date & Time	Day of Week	Route	Location	Description	Duration HH/MM
55	11/29/2019 10:52	Friday	W D RT	N WILDLIFE LN CRD	Two-vehicle fatal crash with reconstruction	2:35
56	11/29/2019 10:57	Friday	E D RT	N WILDLIFE LN CRD	Emergency vehicles animal control for dog in vehicle	2:29
57	11/29/2019 13:28	Friday	N B RT	KLONDIKE FARMS RD CRD	Two-vehicle fatal crash with reconstruction	2:50
58	11/29/2019 14:26	Friday	MO 141 NB	AT I-64	Overtaken waste management dump truck with guardrail damage and debris pickup	4:29



September/October/November 2019 Incidents with Mobility Impact Map




Denotes Location of Major Impact Traffic Incidents



Major Impact Traffic Incidents and Mitigation

9/11/2019 - Wednesday

- **Time:** 6:36 am – 10:52 am
- **Location:** St. Louis City Westbound I-64 ramp to Westbound I-44
- **Event Type:** Overtaken Tractor Trailer Crash
- **Estimated Initial Impact:** Rush Hour: 2 of 2 travel lanes affected equals (=) 100%
- **Incident Details:** Tractor trailer overturned on the ramp from Westbound I-64 to Westbound I-44 due to contents shifting inside trailer
- **Action Taken:** STLMPD called the TMC stating there was an overturned tractor trailer. Three Emergency Response Units were dispatched to the location to help with traffic control. Communications Staff and IDOT Communications Team were notified. Also, a St. Louis City/County IM Text was sent to notify SL District Leadership Team. Due to the location of the incident, there were no DMS boards the TMC could activate to warn motorists so IDOT was contacted. Two IDOT Emergency Response Units also responded to help. Due to the tractor trailer overturning in the right lane only, the left lane of the ramp remained open to let rush hour traffic through. There was a small fuel leak and leakage from the containers inside the trailer. MoDOT Emergency Response was able to contain the leaks with oil dry. The ramp was completely closed when the heavy tow arrived to help remove the tractor trailer. The ramp traffic was diverted to Eastbound I-44. The trailer had to be offloaded before it could be up-righted. It was carrying crated containers of ammonia. The contents were removed from the trailer. The trailer was then separated from the cab adding to the duration.
- **Event Duration:** 4 hours 16 minutes

	Westbound I-64 ramp to Westbound I-44	Lane 1	Lane 2
Closed Hours/Minutes		2:36	4:13





INCIDENT MANAGEMENT

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Major Impact Traffic Incidents and Mitigation

9/11/2019 (Wednesday)

- **Time:** 1:11 pm – 6:05 pm
- **Location:** St. Louis County Westbound I-255 before Telegraph Road
- **Event Type:** Tractor Trailer Fire
- **Estimated Initial Impact:** Rush Hour: 3 of 3 travel lanes affected equals (=) 100%
- **Incident Details:** Trailer loaded with chocolate pulled by a truck caught fire closing the right lane. Fire and police closed all lanes. Two injuries reported.
- **Action Taken:** TMC confirmed incident via CCTV and entered incident into ATMS. MoDOT Emergency Response (ER), ER Supervisor and ER Operations Supervisor were dispatched. Police diverted traffic onto Koch Road to Kinswood. Signals at Telegraph and Kinswood were adjusted by CBB. TMC operators notified IDOT to activate boards on their side of the river since there were no boards to activate on the Missouri side. Incident pages sent to SLCityCounty and COIncident. Motor Carrier Services were notified via voice mail and Communications Staff was notified. There was a 4.5-mile queue. Lengthy duration due to difficulty in putting out the fire, offloading the trailer, and clearing chocolate off the road.
- **Event Duration:** 5 hours 4 minutes

	Westbound I-255 Past Telegraph Road	Left Shoulder	Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes		2:15	3:11	4:54	4:54	4:54





INCIDENT MANAGEMENT

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Major Impact Traffic Incidents and Mitigation

9/16/2019 (Monday)

- **Time:** 7:01 pm – 10:37 pm
- **Location:** Jefferson County Southbound I-55 past Richardson Road
- **Event Type:** Two-vehicle Crash
- **Estimated Initial Impact:** Non-Rush Hour: 2 of 4 travel lanes affected equals (=) 50%
- **Incident Details:** Two-vehicle crash involving tractor trailer and passenger vehicle. The driver of the passenger vehicle was driving on I-55 West Outer Road and drove through the fence, hit the semi, and then spun into the ditch between I-55 Southbound and the West Outer Road.
- **Action Taken:** MSHP, Police, Fire and EMS were dispatched. TMC confirmed and entered incident into ATMS and activated appropriate boards. MoDOT ER was dispatched. PD, fire and EMS closed right lane on mainline and took the northbound lane on the West Outer Road. The semi's fuel line was ruptured in the accident and lost 35 gallons of fuel. ER deployed fuel containment pool to help contain the fuel. Semi driver disconnected the trailer with dangerous flammable placards from tractor. Hazmat was contacted, but was disregarded because the truck company had a crew in route to remove remaining fuel from the tank and Environmental Remediation Company in route for cleanup. All lanes on the West Outer Road and mainline right lane reopened after tow removed passenger vehicle. Right lane closed again when Environmental Remediation arrived and a 2nd right lane closed when heavy tow arrived to remove the tractor. After the tractor was removed the right lane remained closed until the cleanup was completed about 45 minutes later.
- **Event Duration:** 3 hours 36 minutes

	Southbound I-55 Past Richardson Road	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
		Closed Hours/Minutes	0:00	0:00	0:05	2:48





INCIDENT MANAGEMENT

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Major Impact Traffic Incidents and Mitigation

9/25/2019 (Wednesday)

- **Time:** 1:09 pm – 3:09 pm
- **Location:** St. Charles County Eastbound I-70 past Wentzville Parkway
- **Event Type:** Debris in Roadway
- **Estimated Initial Impact:** Non-Rush Hour: 2 of 2 travel lanes affected equals (=) 100%
- **Incident Details:** Tractor trailer spilled a load of hotdogs causing a closure of Eastbound I-70.
- **Action Taken:** The TMC was notified by MSHP and confirmed the incident on CCTV. MoDOT Emergency Response was dispatched to assist with traffic control. TMC Operators entered the event into ATMS and activated appropriate DMS boards. KC Scout notified to activate DMS boards outside the SL District. Incident alerts were sent out to the appropriate email groups. A traffic engineer from CBB stationed at the TMC adjusted traffic signals at I-70 and Route T, as well as Interstate Drive as traffic was diverted off of the interstate and onto the outer road. MSHP and St. Charles Fire were on scene. MoDOT Maintenance was dispatched to clean up the debris with a sweeper, front-loader and dump truck. Traffic queued 9 miles at its peak and it took approximately 30 minutes for traffic to return to normal after the incident cleared.
- **Event Duration:** 2 hours 0 minutes

	Eastbound I-70 Past Wentzville Parkway	Left Shoulder	Lane 1	Lane 2	Right Shoulder
Closed Hours/Minutes		2:00	2:00	2:00	2:00



INCIDENT MANAGEMENT


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Major Impact Traffic Incidents and Mitigation

10/10/2019 (Thursday)

- **Time:** 4:48 am – 12:00 pm
- **Location:** Franklin County Westbound I-44 past Route JJ/W – MM 228.6
- **Event Type:** Overtaken Tractor Trailer Crash
- **Estimated Initial Impact:** Rush Hour: 1 of 2 travel lanes affected equals (=) 50%
- **Incident Details:** Franklin County PD called stating there was an overturned tractor trailer Eastbound I-44 at mile marker 228.6. The tractor trailer was carrying televisions. The TMC was contacted by MSHP 30 minutes later and informed that the accident was westbound not eastbound.
- **Action Taken:** The TMC used DMS boards along I-44 warning motorists of the crash. The SL District Leadership Team was notified through an incident alert. The ER Supervisor was contacted. Due to ER operator shortage, they were not dispatched to the location. Through communication with MSHP, the TMC was advised the trailer needed to be offloaded and would take three hours. MSHP also informed the TMC of damaged shoulder pavement. The maintenance building was contacted to investigate the damage. After the trailer was offloaded, the tow company was having problems loading the vehicle from the median. This added more time to the duration.
- **Event Duration:** 7 hours 12 minutes


	Westbound I-44 Past Route JJ/W	Left Shoulder	Lane 1	Lane 2	Right Shoulder
Closed Hours/Minutes		7:12	7:12	0:00	0:00



Major Impact Traffic Incidents and Mitigation

10/30/2019 (Wednesday)

- **Time:** 4:24 pm – 6:52 pm
- **Location:** St. Louis City Eastbound I-44 past I-64
- **Event Type:** Single-vehicle Tractor Trailer Crash
- **Estimated Initial Impact:** Rush Hour: 1 of 2 travel lanes affected equals (=) 100%
- **Incident Details:** Flatbed tractor trailer hauling motor grader hit railroad a trestle before I-64. The motor grader was damaged and leaking fluid. Semi stopped on right shoulder.
- **Action Taken:** MoDOT Emergency Response (ER) was first on scene. Incident confirmed on camera and entered in ATMS. ER contacted PD and went to the scene. Multimodal emergency contact was notified of damage and call back to say that both railroad companies were notified of possible bridge damage. Union Pacific arrived to investigate damage. All lanes were closed in order to tow vehicle. DMS messaging pushed further back on I-55 and I-44 advising of closure and to use an alternate route. The semi was towed backwards and then onto the Walnut Street exit; thereby closing the Walnut Street exit. There was a mile and a half queue. Lengthy event time due to nature of the incident.
- **Event Duration:** 2 hours 28 minutes.


	Eastbound I-44 past I-64	Lane 1	Lane 2	Right Shoulder
Closed Hours/Minutes		0:48	2:24	2:28



Major Impact Traffic Incidents and Mitigation

11/1/2019 (Friday)

- **Time:** 7:55 am – 11:36 am
- **Location:** St Louis County Eastbound MO 364 at I-270
- **Event Type:** Two-Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 3 of 4 travel lanes affected equals (=) 75%
- **Incident Details:** TMC heard a scanner report of an accident Eastbound MO 364 at I-270. After checking the cameras, an operator spotted the accident blocking the two left lanes involving a van and pickup. Emergency vehicles arrived on scene and closed an additional lane. The passenger of the pickup was transported to the hospital.
- **Action Taken:** An Emergency Response Unit was dispatched to the scene to help with traffic control. Emergency Response Supervisor and Communications staff were notified. A three-mile traffic queue resulted because of the accident with a backup past Seven Pines Drive. The TMC used DMS boards along I-270, MO 141, and MO 364 to warn motorists of incident. After Fire and EMS left the scene and reconstruction started, lane 3 could have been cleared. However, emergency response did not reopen the lane for safety reasons. During the incident vehicles were traveling the normal speed for the area. The duration of the incident was extended to the reconstruction of the accident by PD.
- **Event Duration:** 3 hours 41 minutes

	Eastbound MO 364 at I-270	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
		Closed Hours/Minutes	3:41	3:41	3:38	0:00