



ST. LOUIS DISTRICT MOBILITY

QUARTERLY REGIONAL MOBILITY REPORT ■ JUNE / JULY / AUGUST 2020 | EDITION NO. 12

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Provide Outstanding Customer Service & Deliver Transportation Services of Great Value

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Keep Roads and Bridges in Good Condition

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Keep Customers and Ourselves Safe



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

June 2019 thru August 2019 Grand Total and Average

Delay cost:
Total \$29,350,422
Hours of delay
Person-hours: 1,347,219h 52m
Vehicle hours: 1,099,771h 19m

June 2020 thru August 2020 Grand Total and Average

Delay cost:
Total \$7,746,977
Hours of delay
Person-hours: 355,595h 39m
Vehicle hours: 290,282h 09m





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ZONING IN

Fatal Crash Clearance times YTD improved by 13.4% in 2020 compared to 2019

The number of tractor trailer crashes decreased 22.7% compared to the Summer of 2019

Work zone crashes increased by 26.2% compared to Summer of 2020

Overall AM and PM Regional Mobility for the 2020 summer quarter increased dramatically compared to 2019

Westbound I-70 at Earth City Expressway took over the top congested spot this quarter with Northbound I-270 at I-70 placing 2nd

TMS Work Zones:

June	2020:	413
July	2020:	400
August	2020:	457

Work Zone Impact Breakdown:

	Major:	27– 2.1%
	Moderate:	27– 2.1%
	Minor:	1247– 95.8%

WORK ZONE CRASHES: 53

Planned Event

Date: Entire Quarter	Location: Eastbound / Westbound I-270 Design Build
	Event Detail: Continued work with daily closures of various lanes. All mitigation efforts were in use.

Unplanned Event

Date: 7-10-2020	Location: University City, St. Louis County, Southbound and Northbound I-170 past Delmar Blvd.
	Event Detail: Overturned Tractor Trailer during AM Rush Hour. The tractor overturned on its side in the northbound lanes of I-170 and the trailer overturned in the southbound lanes. All lanes of Northbound and Southbound I-170 were closed. Traffic queued approximately 1 mile in each direction along I-170. Event lasted 3 hours 1 minute.



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Top 5 Congestion Locations / June – August 2019 vs. June – August 2020

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

	Congestion Locations 2019	*Weighted Total Impact	Average Queue Length Miles	Average Daily Duration	Total Duration
1	SB I-270 @ Dougherty Ferry Rd	77,150,683	5.99	45m	2d 22h 27m
2	EB I-64 @ I-55/I-44	71,177,108	1.66	1h 18m	4d 23h 38m
3	EB I-44 @ Hwy Drive Exit 275	67,836,257	1.96	3h 27m	13d 6h 47m
4	EB I-64 @ Big Bend Blvd	53,951,143	2.69	1h 21 m	5d 5h 30m
5	WB I-64 @ Clayton Rd/Oakland	45,298,983	2.25	1h 49 m	6d 23h 21m

	Congestion Locations 2020	*Weighted Total Impact	Average Queue Length Miles	Average Daily Duration	Total Duration
1	WB I-70 @ Earth City Expressway	42,846,489	1.23	2h 28m	9d 12h 4m
2	NB I-270 @ I-70	34,974,127	2.73	24m	1d 14h 12m
3	SB I-270 @ Dorsett	32,786,606	2.27	21m	1d 9h 34m
4	WB I-270 @ Elizabeth/Washington	31,951,825	2.38	26 m	1d 16h 19m
5	WB I-270 @ Old Halls Ferry	25,925,834	1.19	1h 26m	5d 13h 17m

Average Incident Duration Comparison / 2019 vs. 2020

Month	Average Incident Duration (Minutes : Seconds)	2019	2020
June	Lane Clearance	30:10	28:59
June	Incident Clearance	31:37	29:21
July	Lane Clearance	29:49	30:23
July	Incident Clearance	31:15	30:58
August	Lane Clearance	28:14	28:22
August	Incident Clearance	29:22	28:41



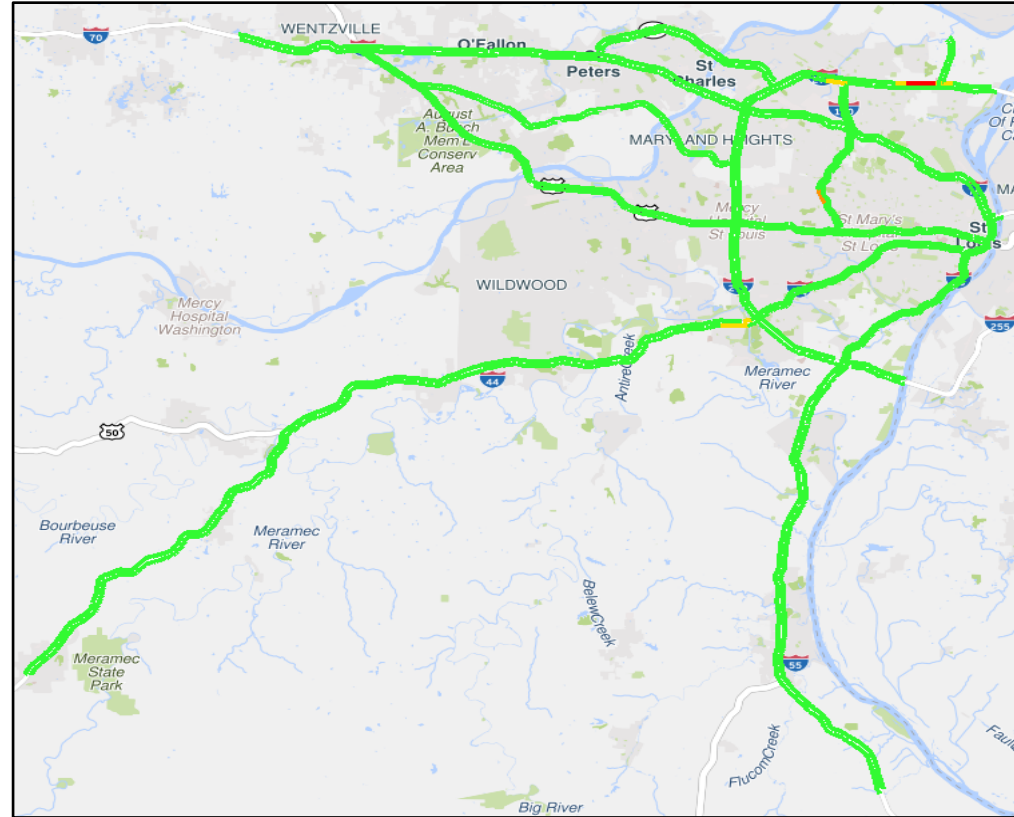
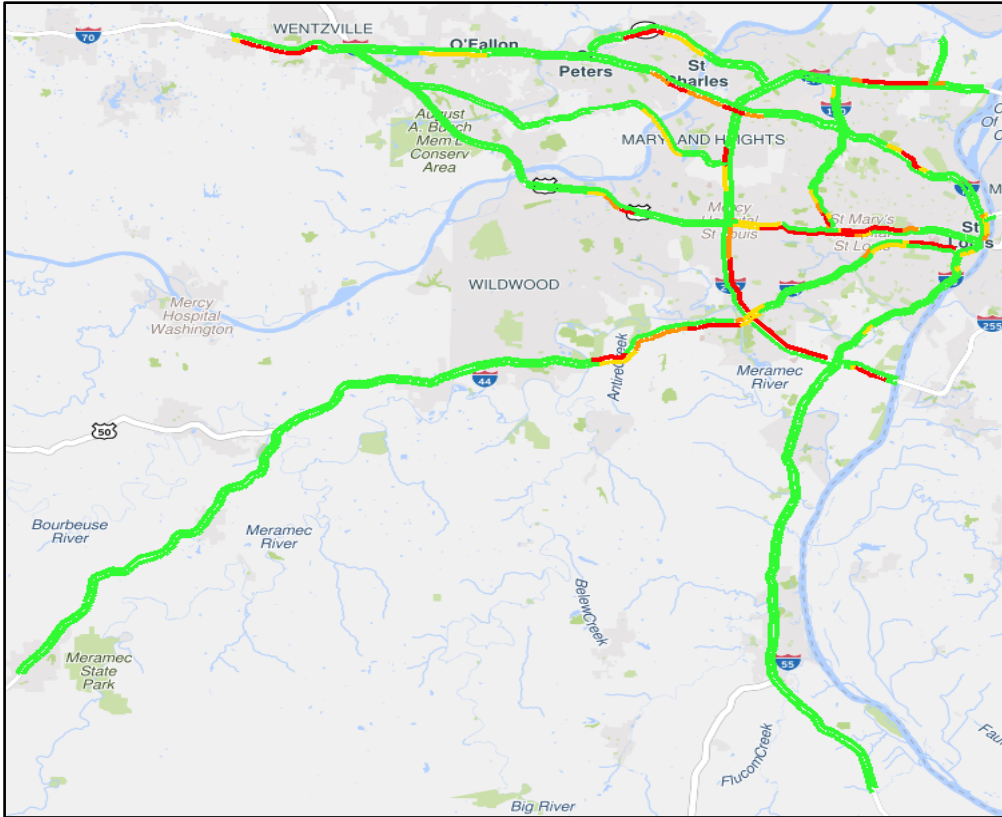
FREEWAY MANAGEMENT

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INCREASE in Overall AM Mobility

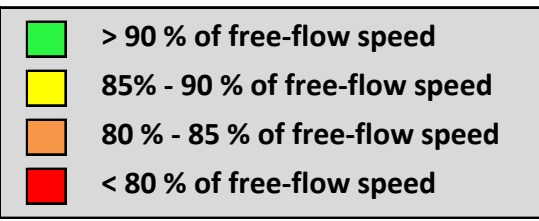
AM Peak Mobility June / July / August 2019 vs June / July / August 2020 *



2019

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

2020



	2019	→	2020
6 AM	100%	→	100%
7 AM	96.0%	→	100%
8 AM	95.2%	→	100%
9 AM	99.8%	→	100%

* 8am 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.

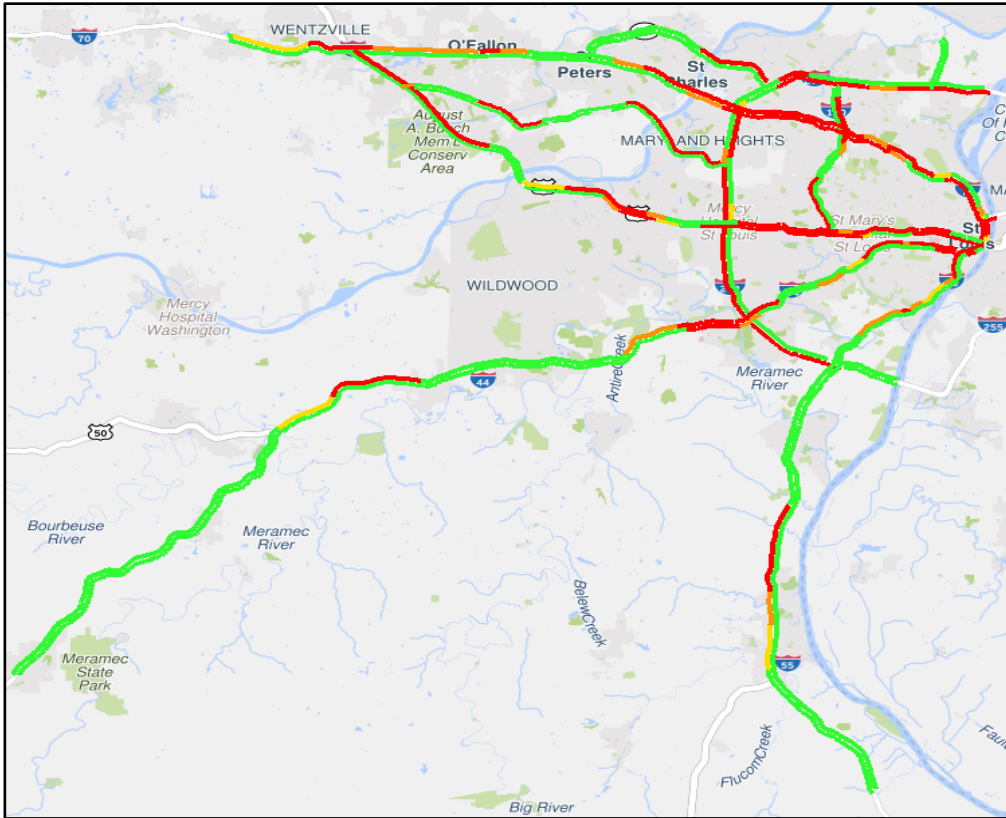


FREEWAY MANAGEMENT

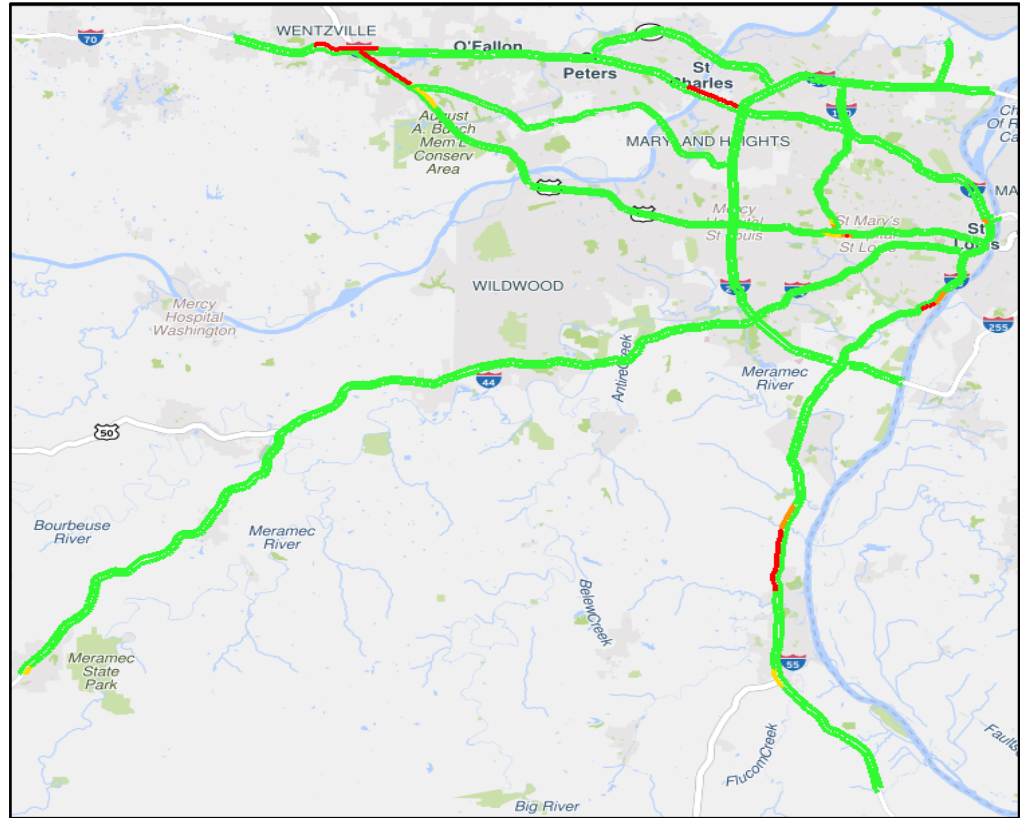
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INCREASE in Overall PM Mobility

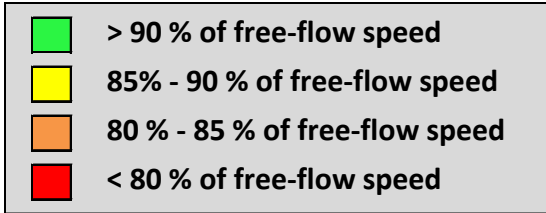
PM Peak Mobility June / July / August 2019 vs June / July / August 2020 *



2019



2020



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

	<u>2019</u>	→	<u>2020</u>
3 PM	94.1%	→	99.7%
4 PM	84.8%	→	99.6%
5 PM	82.2%	→	100%
6 PM	97.2%	→	100%
7 PM	100%	→	100%

* 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.



Top 5 Congestion Locations Comparison

Comparing Top 5 Congestion Locations of June / July / August 2019 to June / July / August 2020

- 1 SB I-270 at Dougherty Ferry Rd.
Mobility INCREASED from 2019 → 2020
- 2 EB I-64 at I-55 / I-44
Mobility INCREASED from 2019 → 2020
- 3 EB I-44 at Hwy Drive Exit 275
Mobility INCREASED from 2019 → 2020
- 4 EB I-64 at Big Bend Blvd
Mobility INCREASED from 2019 → 2020
- 5 WB I-64 at Clayton Road / Oakland
Mobility INCREASED from 2019 → 2020



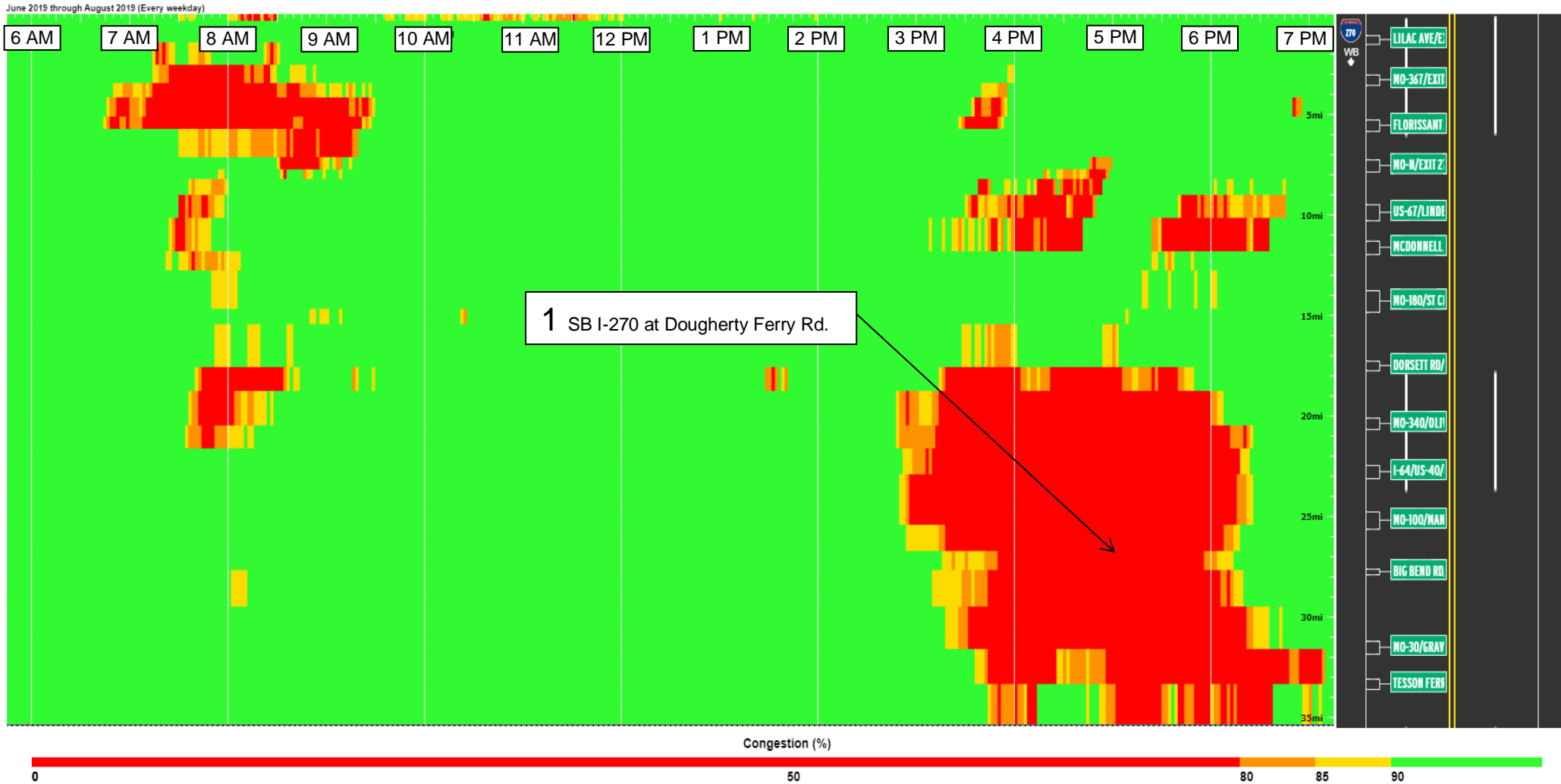
FREEWAY MANAGEMENT

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2019 SB I-270

Congestion for I-270 Westbound and I-270 Southbound using HERE data

Averaged by 2 minutes for June 2019 through August 2019 (Every weekday)





FREEWAY MANAGEMENT

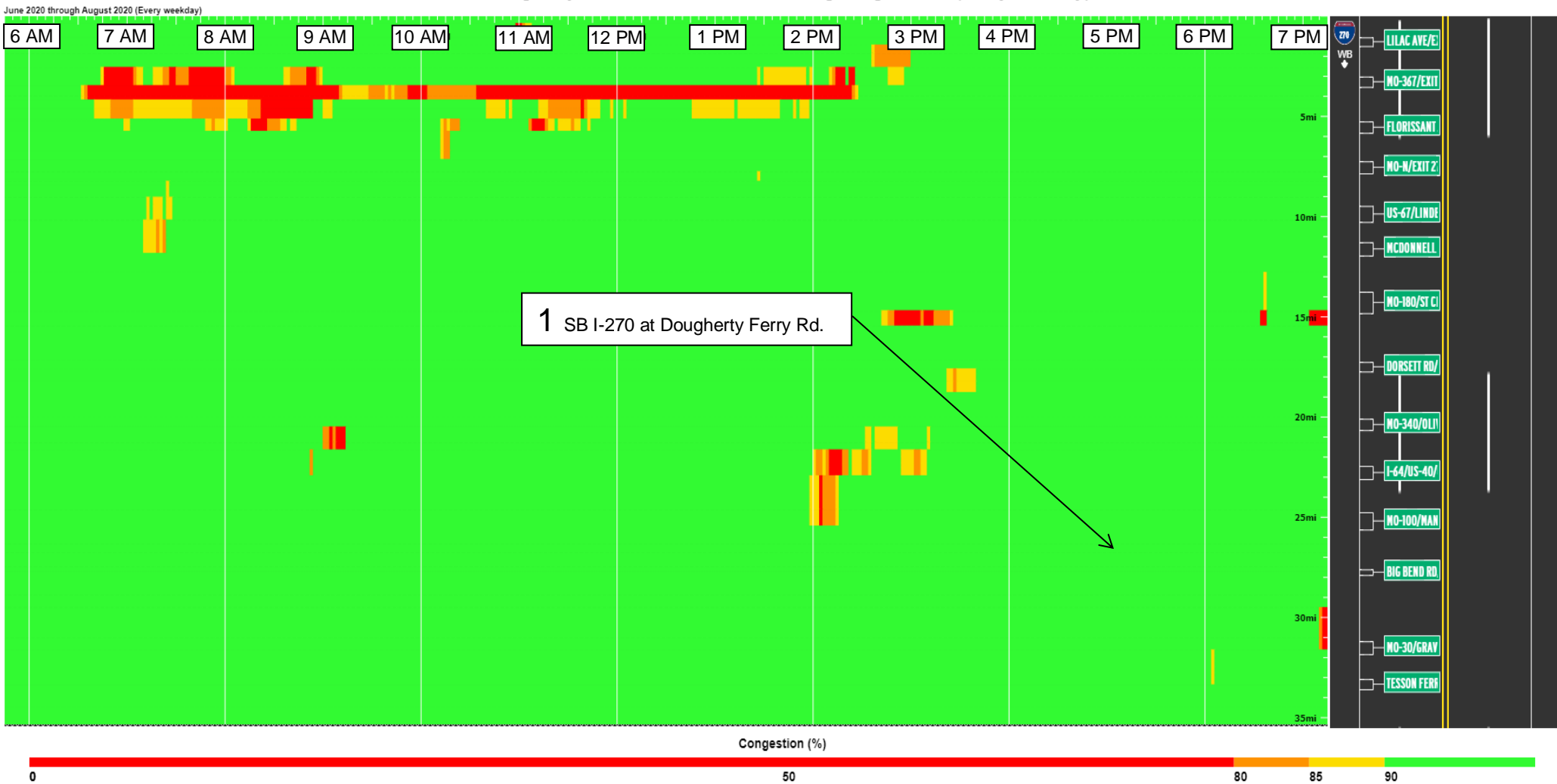
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2020 SB I-270

Congestion for I-270 Westbound and I-270 Southbound using HERE data

Averaged by 2 minutes for June 2020 through August 2020 (Every weekday)

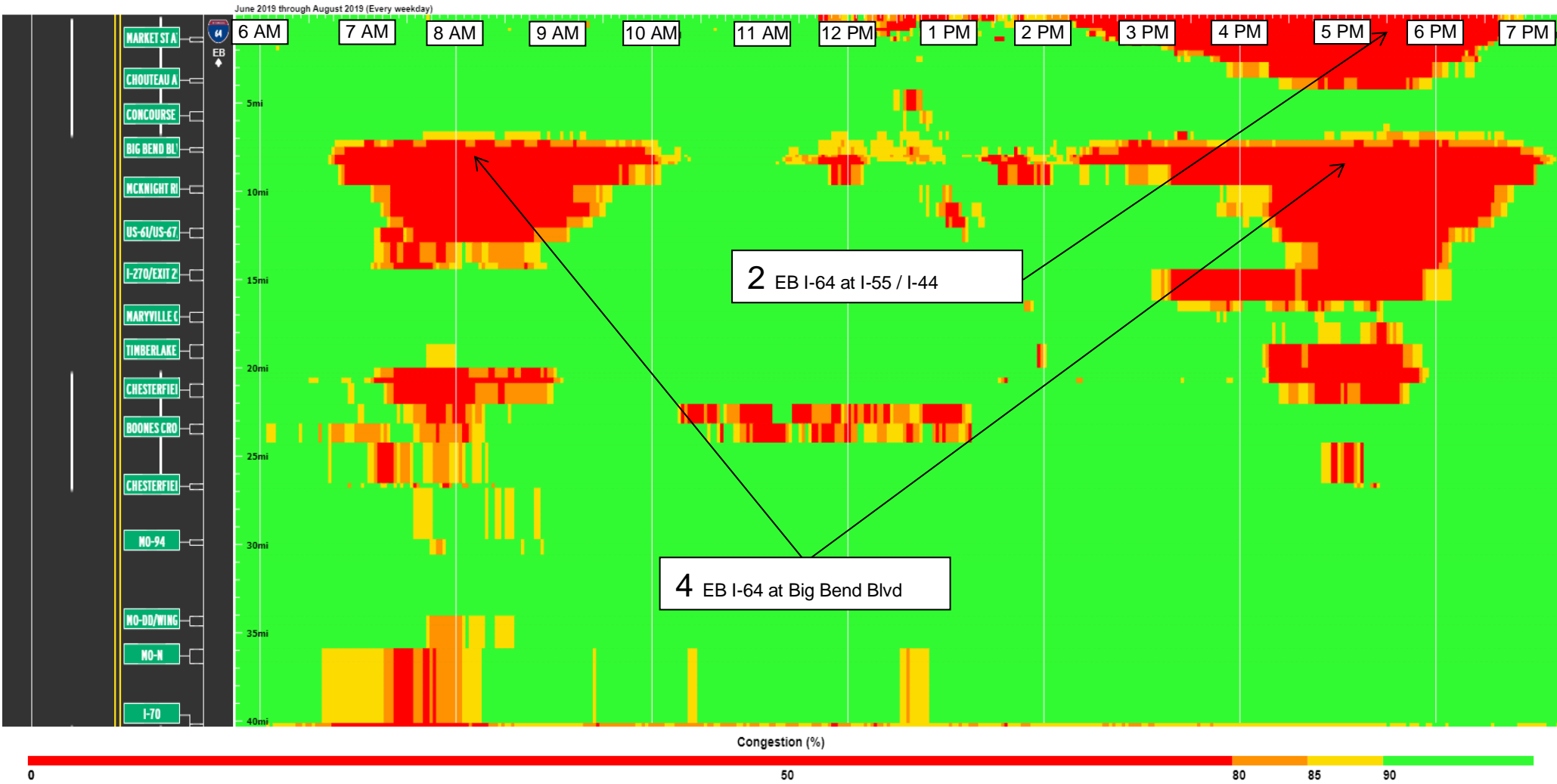




2019 EB I-64

Congestion for I-64 Eastbound using HERE data

Averaged by 2 minutes for June 2019 through August 2019 (Every weekday)





FREEWAY MANAGEMENT

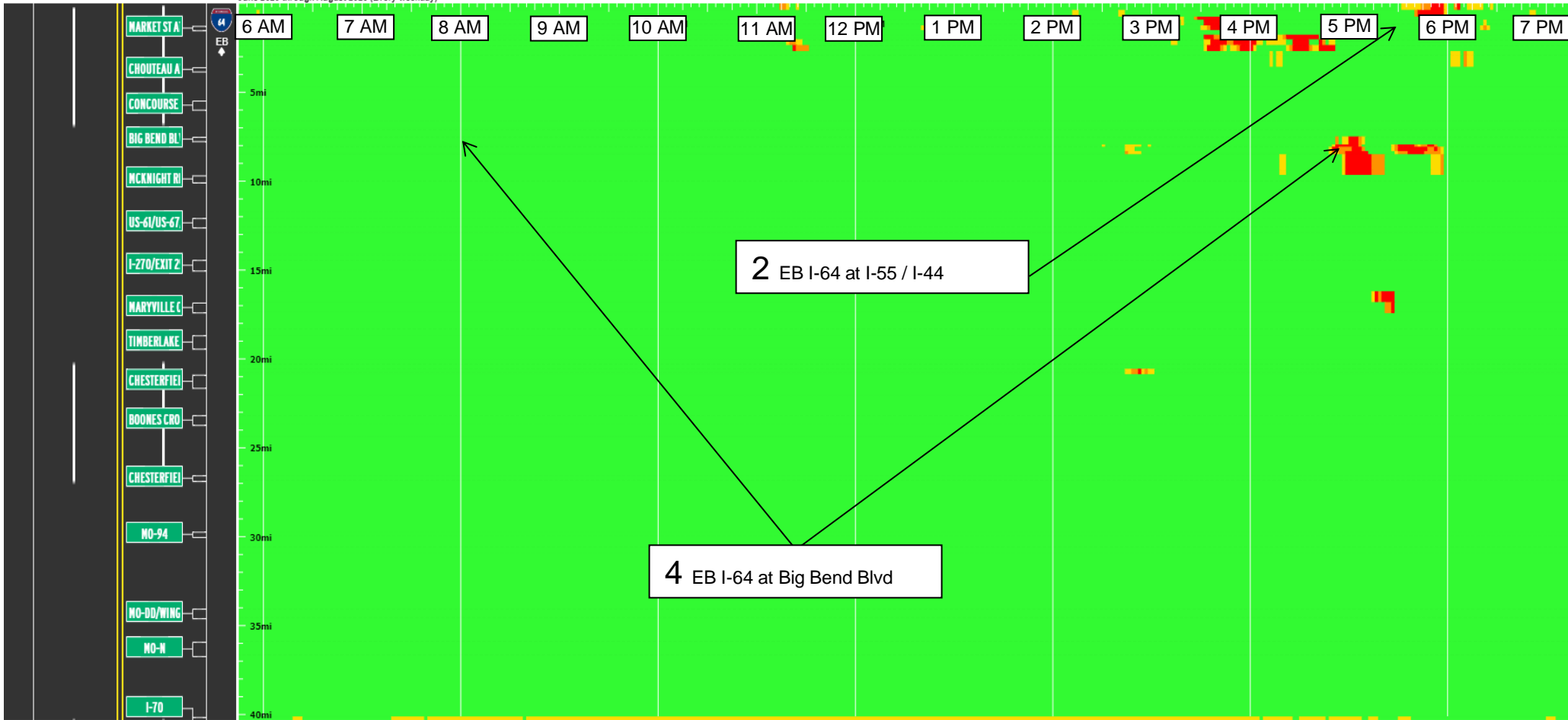
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2020 EB I-64

Congestion for I-64 Eastbound using HERE data

Averaged by 2 minutes for June 2020 through August 2020 (Every weekday)

June 2020 through August 2020 (Every weekday)



Congestion (%)

0

50

80

85

90

10



2019 EB I-44

Congestion for I-44 Eastbound between MO-185/Exit 225 and I-55/Exit 290 using HERE data
 Averaged by 2 minutes for June 2019 through August 2019 (Every weekday)

June 2019 through August 2019 (Every weekday)



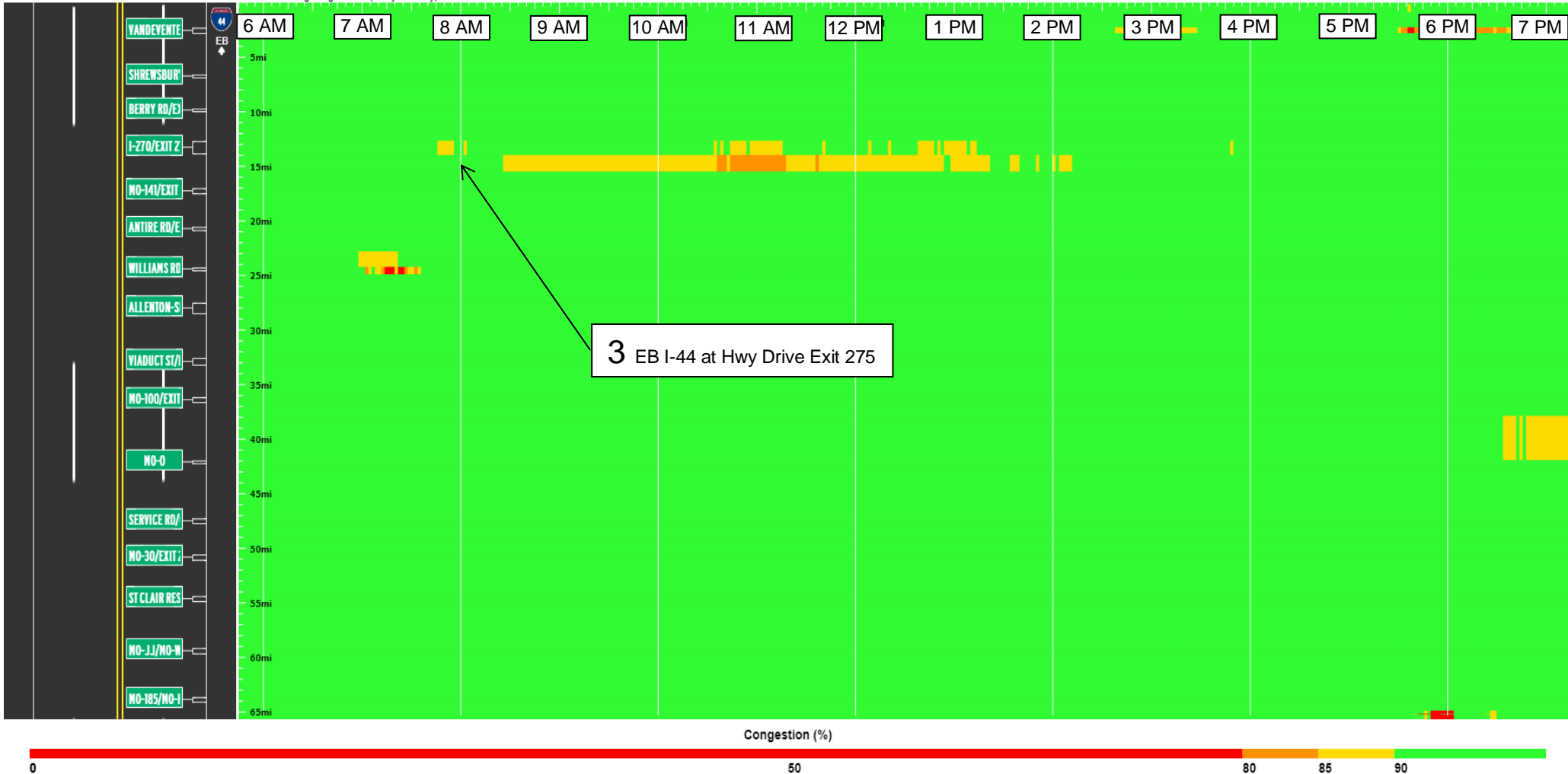


2020 EB I-44

Congestion for I-44 Eastbound between MO-185/Exit 225 and I-55/Exit 290 using HERE data

Averaged by 2 minutes for June 2020 through August 2020 (Every weekday)

June 2020 through August 2020 (Every weekday)





FREEWAY MANAGEMENT

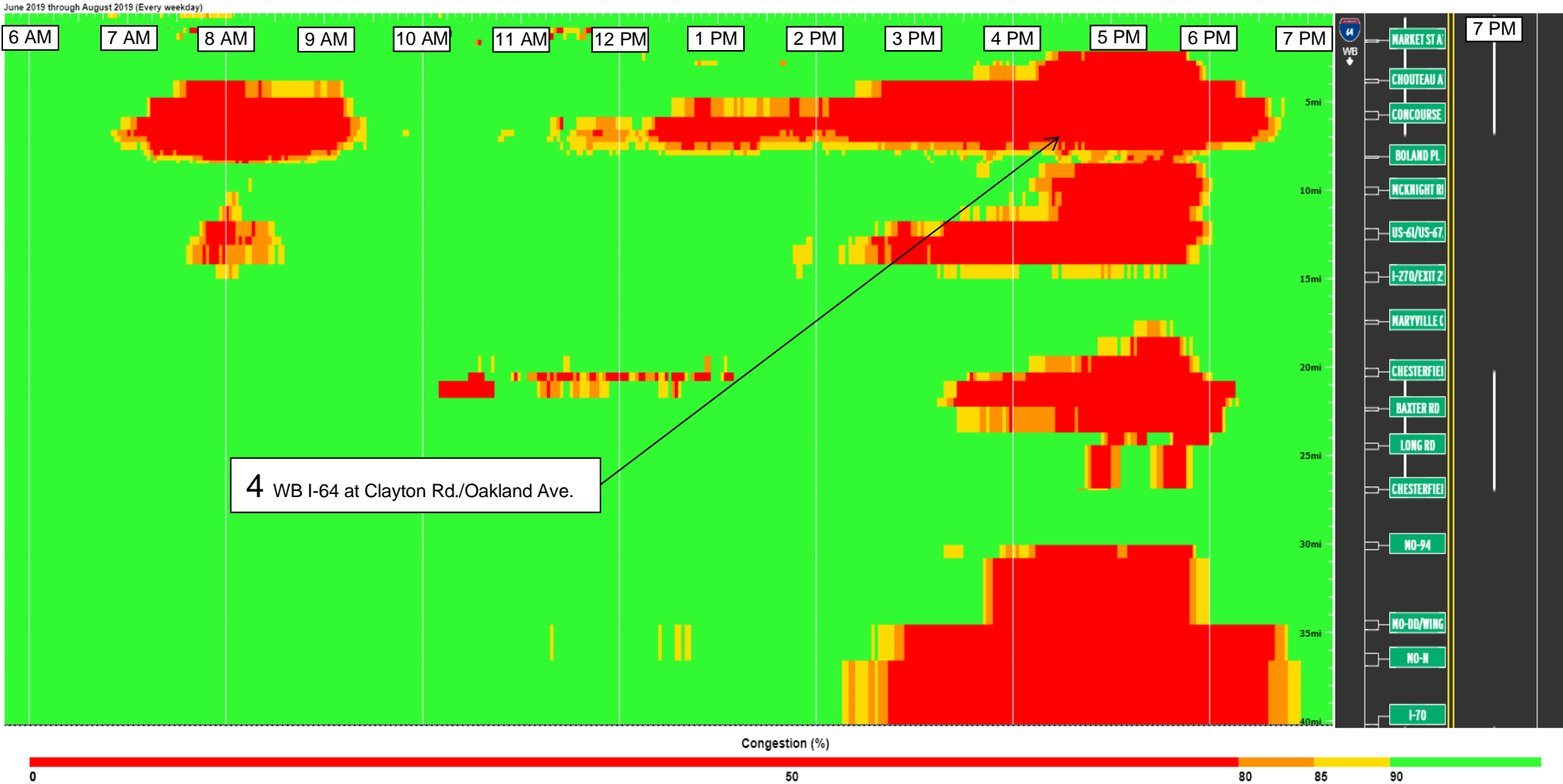
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2019 WB I-64

Congestion for I-64 Westbound using HERE data

Averaged by 2 minutes for June 2019 through August 2019 (Every weekday)





FREEWAY MANAGEMENT

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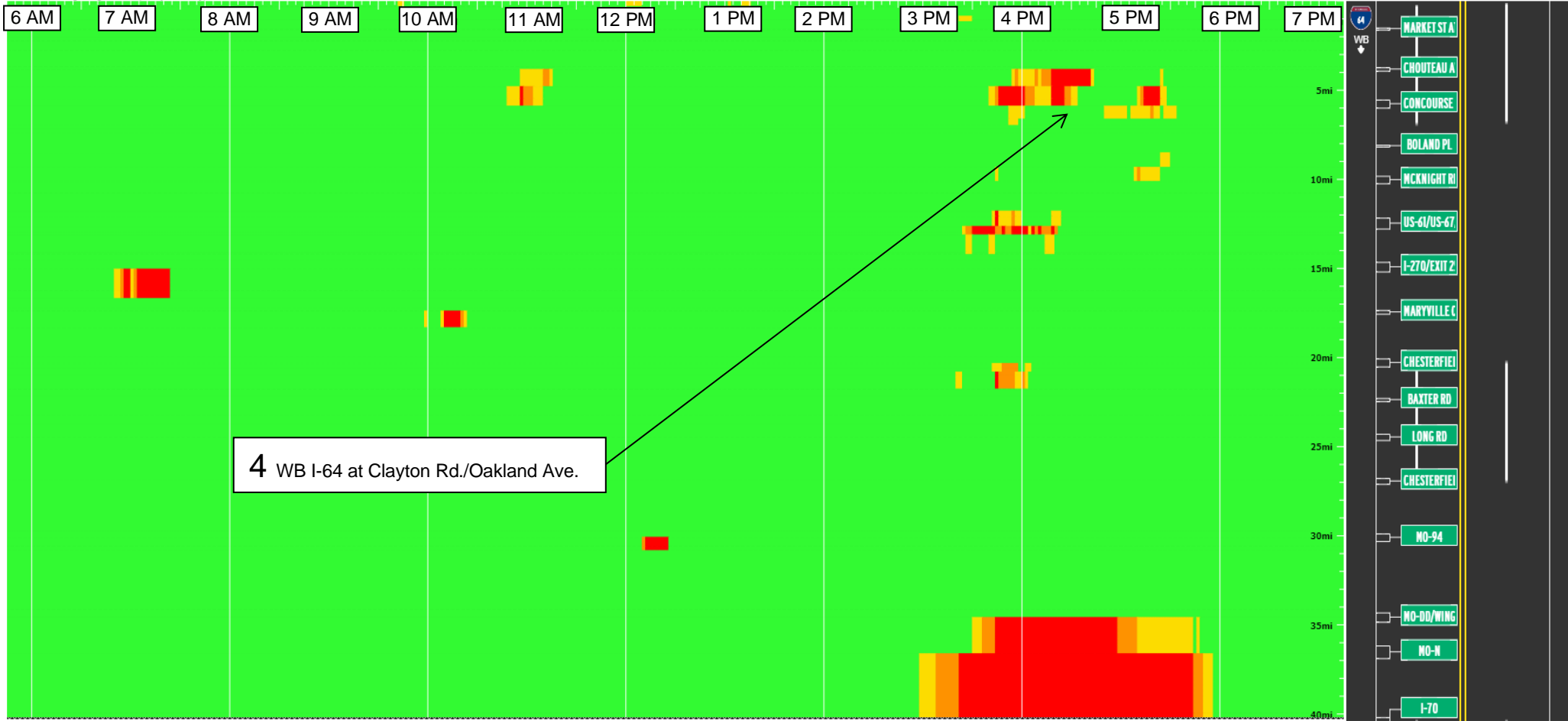


2020 WB I-64

Congestion for I-64 Westbound using HERE data

Averaged by 2 minutes for June 2020 through August 2020 (Every weekday)

June 2020 through August 2020 (Every weekday)



4 WB I-64 at Clayton Rd./Oakland Ave.

Congestion (%)





WORK ZONE MANAGEMENT

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TMC Observed Work Zones

	June 2020	July 2020	August 2020
Level of Travel Time Impact	Number of Work Zones	Number of Work Zones	Number of Work Zones
Major Impact	8	5	14
Moderate Impact	8	5	14
Minor Impact	425	392	430
Total	441	402	458



WORK ZONE MANAGEMENT

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Additional Travel Time Impacts through Work Zones

Major Impact (15 Minutes or Above):	#	Moderate Impact (10-14 Minutes):	#	#	#
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(Daily) Westbound I-270 Design Build

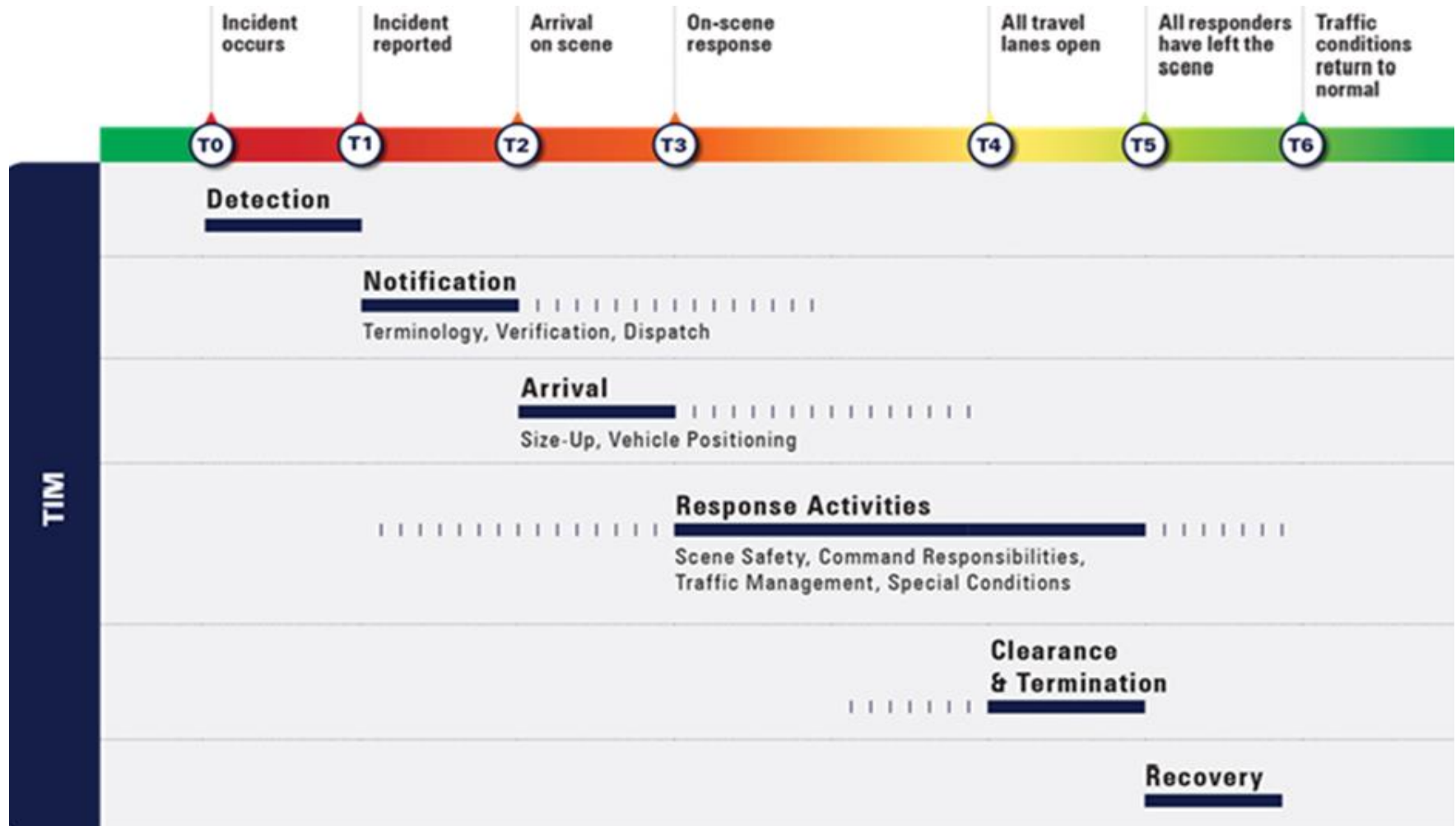
- Various lane closures
- All mitigation efforts were in use

14 12

(Daily) Eastbound I-270 Design Build

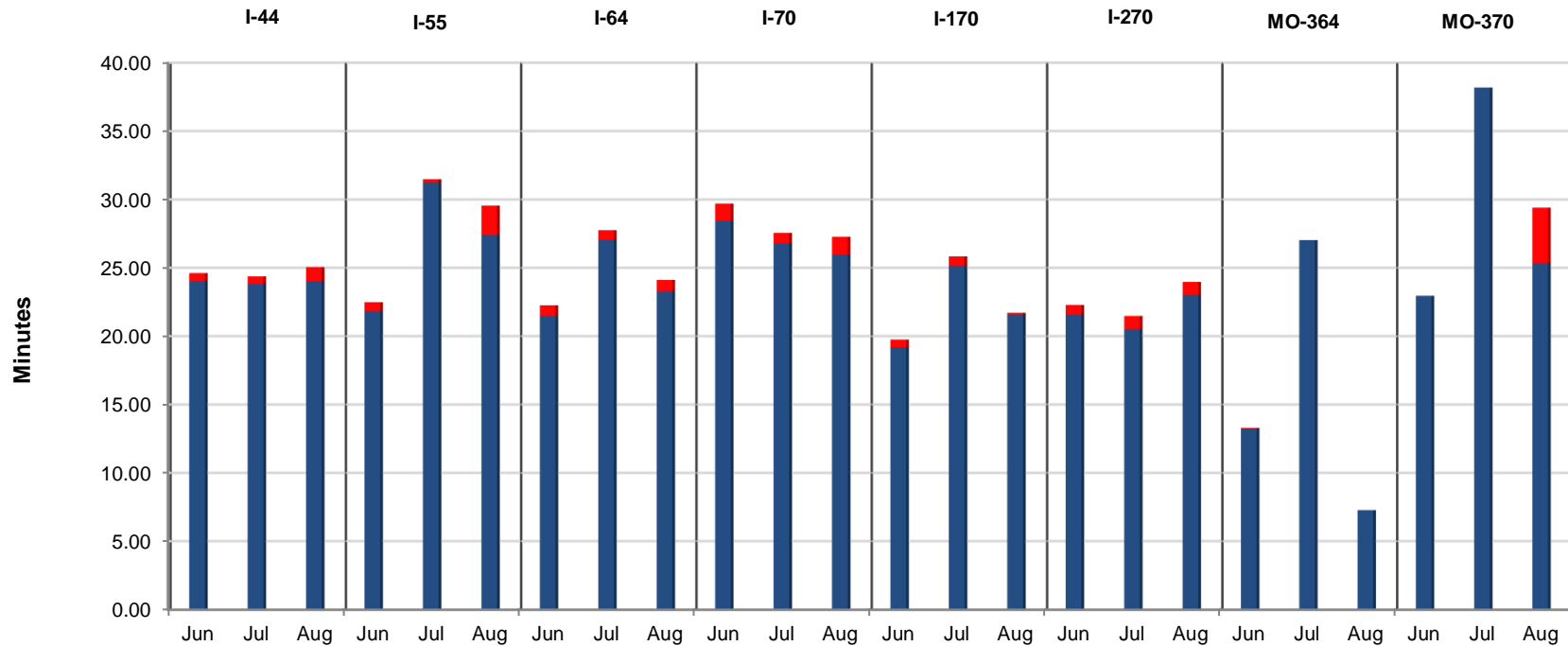
- Various lane closures
- All mitigation efforts were in use

11 15





June / July / August 2020
Incidents Summary

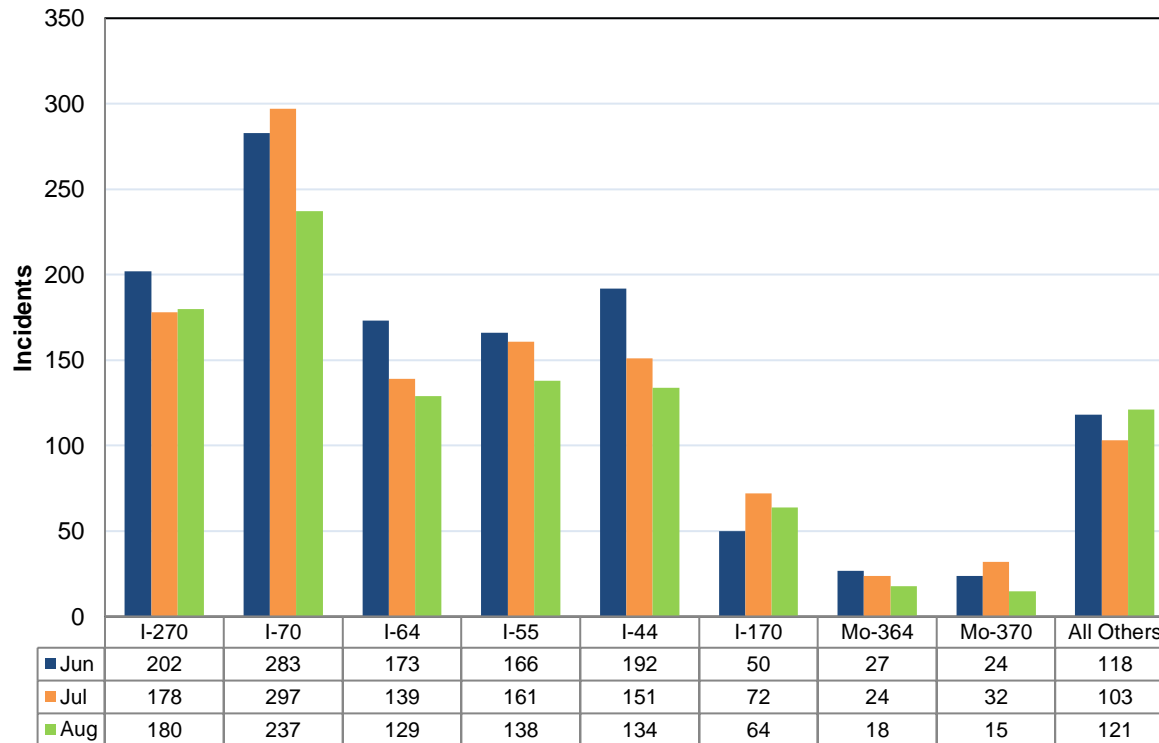


- Average Time for Backup to Clear = T6 - T4
- Average Time to Clear Incident from Lanes = T4 - T1



Total Number of Incidents: / June: 1235 / July: 1157 / August: 1036

Total Number of Lane Blocking Incidents



Major Impact Incidents

June	July	August
(3)	(2)	(2)

Fatal Incidents

June	July	August
(11)	(9)	(9)

Tractor Trailer Incidents

June	July	August
(73)	(71)	(62)



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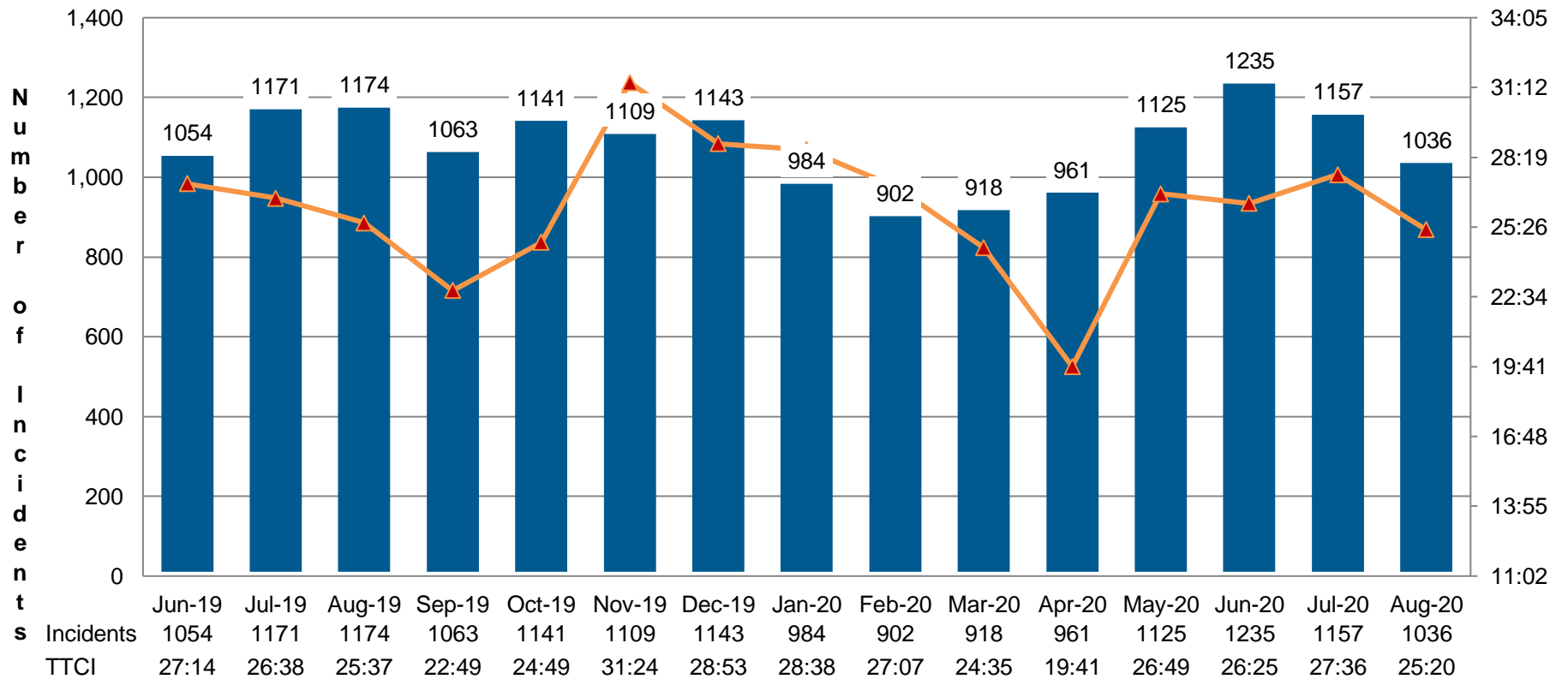
Lane Blocking Incidents by Freeway June, July and August 2020

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	June	192	24:03	00:34	33	5.82
I-44	July	151	23:49	00:33	33	4.58
I-44	August	134	24:01	01:02	33	4.06
I-55	June	166	21:50	00:39	23	7.22
I-55	July	161	31:15	00:14	23	7.00
I-55	August	138	27:24	02:09	23	6.00
I-64	June	173	21:29	00:47	40	4.33
I-64	July	139	27:02	00:43	40	3.48
I-64	August	129	23:16	00:53	40	3.23
I-70	June	283	28:25	01:17	38	7.45
I-70	July	297	26:47	00:46	38	7.82
I-70	August	237	25:58	01:18	38	6.24
I-170	June	50	19:12	00:33	11	4.55
I-170	July	72	25:09	00:41	11	6.55
I-170	August	64	21:35	00:08	11	5.82
I-270	June	202	21:35	00:42	36	5.61
I-270	July	178	20:30	00:59	36	4.94
I-270	August	180	23:00	00:58	36	5.00
MO-364	June	27	13:13	00:04	11	2.45
MO-364	July	24	27:02	00:00	11	2.18
MO-364	August	18	07:17	00:00	11	1.64
MO-370	June	24	22:57	00:00	13	1.85
MO-370	July	32	38:11	00:00	13	2.46
MO-370	August	15	25:20	04:04	13	1.15
Total	Jun/Jul/Aug	3086	23:46	00:48	615	5.02



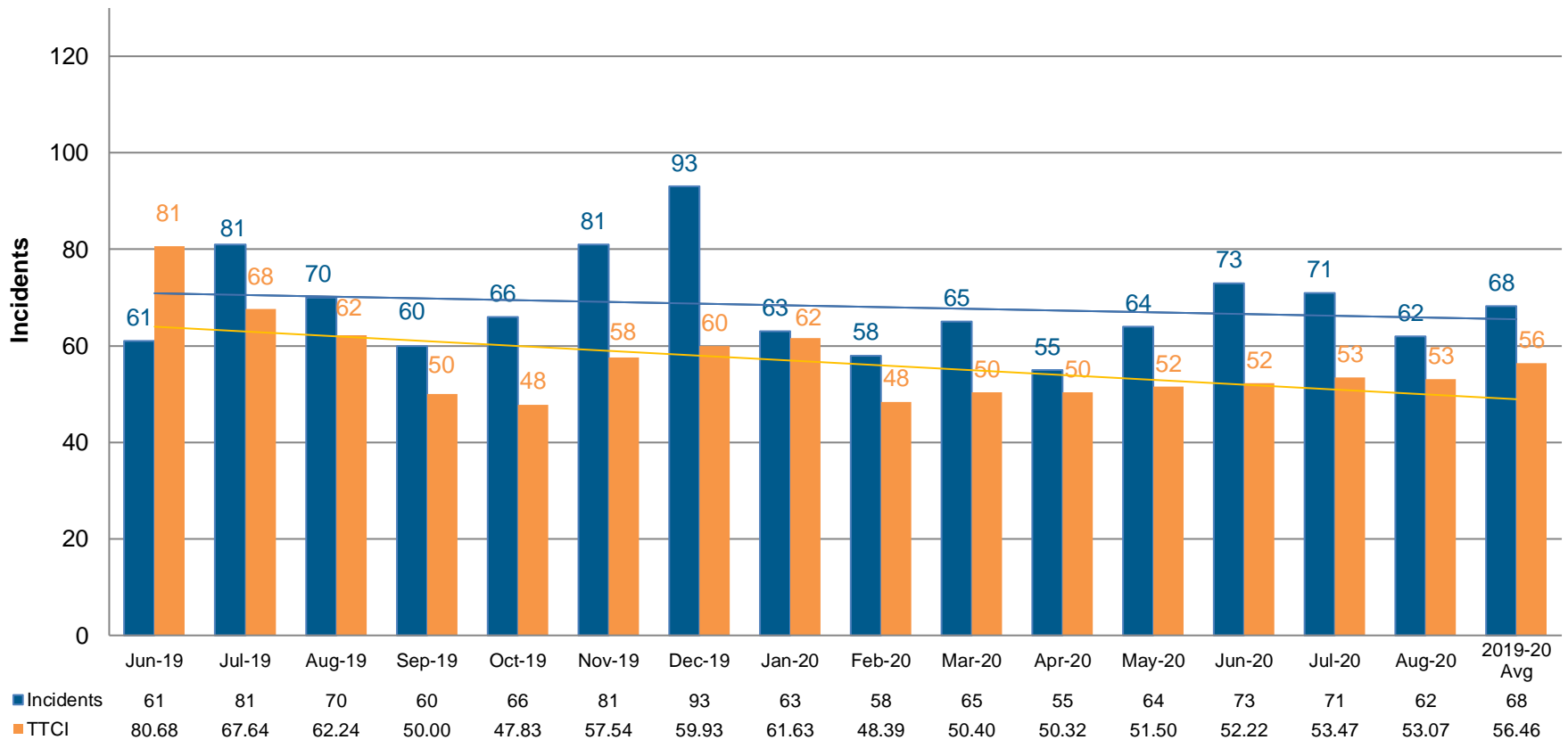
Number of Incidents and Time to Clear Lanes

Time to Clear Incidents





2019 - 2020 Number of Tractor Trailer Incidents / Time to Clear





INCIDENT MANAGEMENT

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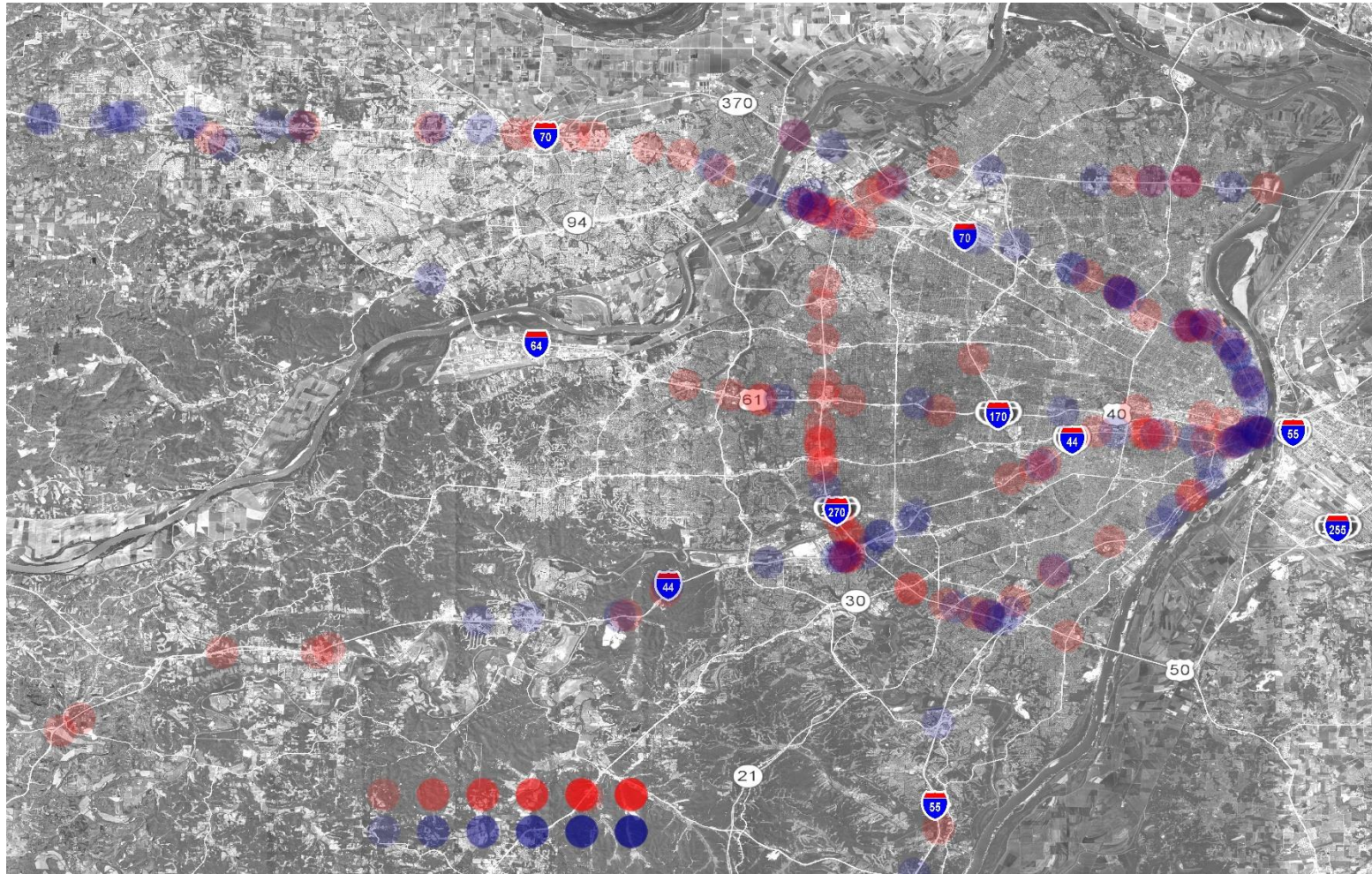
2020 Tractor Trailer Incidents by Route

2020	I-44	I-55	I-64	I-70	I-170	I-255/I-270	Route 364	Route 370	Other	Total
Jan	21	6	9	14	2	11	0	0	0	63
Feb	21	6	4	14	0	9	0	0	4	58
Mar	13	8	4	26	2	7	0	3	3	66
Apr	18	6	8	12	1	6	0	3	1	55
May	17	9	7	17	1	12	0	0	1	64
Jun	22	6	11	20	0	13	0	0	1	73
Jul	8	10	5	25	1	18	0	3	1	71
Aug	17	7	3	20	1	9	0	1	4	62
Sep										
Oct										
Nov										
Dec										

Yearly Total	137	58	51	148	8	85	0	10	15	512
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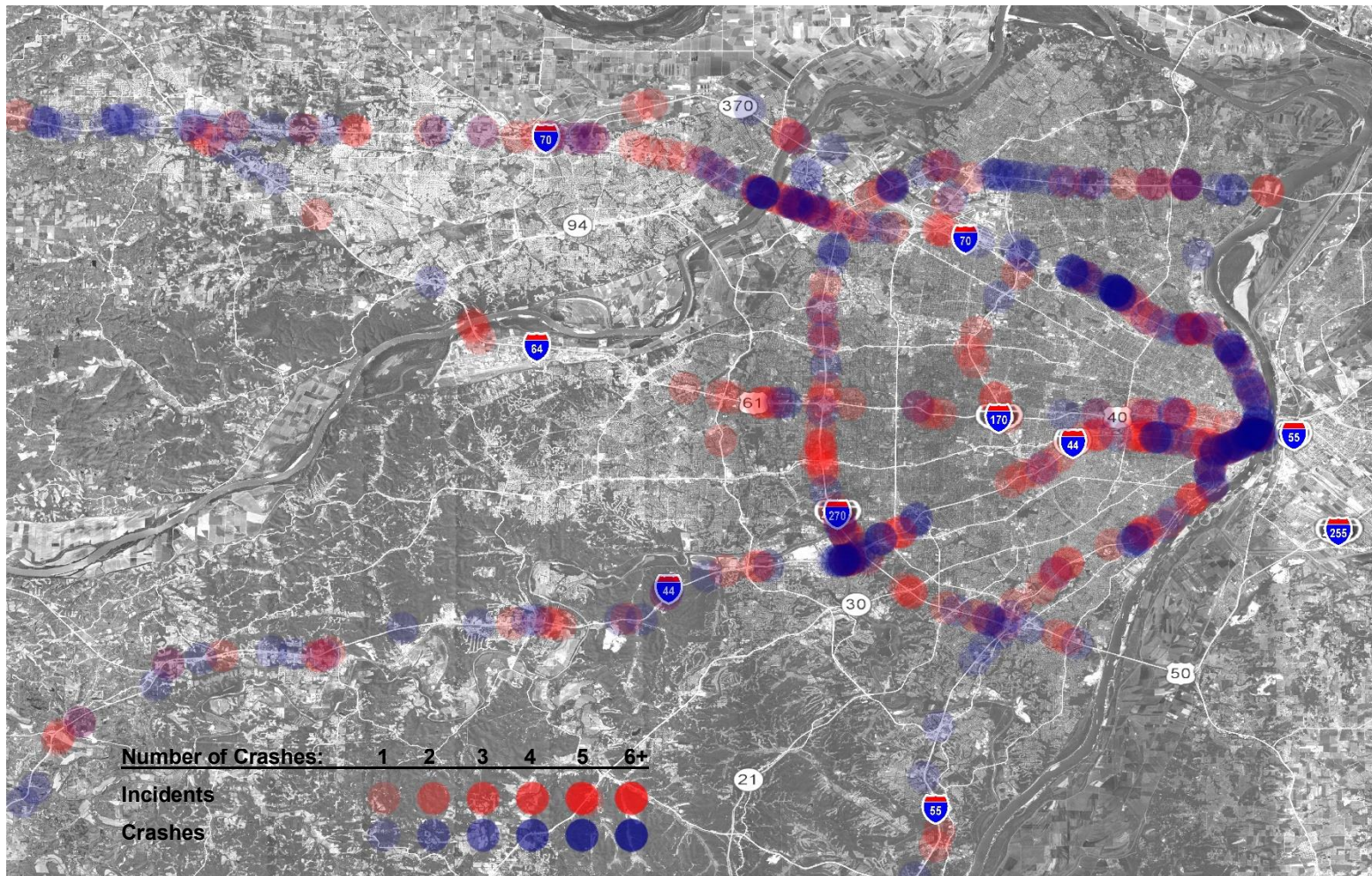


June / July / August 2020 Tractor Trailer Incidents





January 2020 – August 2020 Tractor Trailer Incidents Map





INCIDENT MANAGEMENT

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Incidents over Two Hours June / July / August 2020

Incidents in red denote high mobility impact

#	Date & Time	Day of Week	Route	Location	Description	Duration HH/MM
1	6/3/2020 20:55	Wednesday	I-44 EB	AT MO 30	Multi-vehicle crash involving a tractor trailer with towing difficulties	3:38
2	6/6/2020 11:08	Saturday	I-170 SB	ON RAMP FROM I-270 WB	Fatal crash with incident reconstruction	2:48
3	6/6/2020 17:02	Saturday	I-70 WB	TO FIFTH ST	Civil unrest	2:22
4	6/6/2020 17:33	Saturday	I-70 WB	TO FAIRGROUNDS RD	Civil unrest	2:02
5	6/8/2020 17:21	Monday	I-270 EB	PAST MO 367	Overtaken vehicle crash	2:30
6	6/8/2020 18:46	Monday	US 67 SB	AT NEW FLORISSANT RD	Civil unrest	4:30
7	6/8/2020 18:47	Monday	US 67 NB	AT NEW FLORISSANT RD	Civil unrest	4:29
8	6/9/2020 20:28	Tuesday	N MACKENZIE RD CRD	GRAMOND DR CRD	Emergency pothole repair	2:08
9	6/10/2020 15:26	Wednesday	E 340 MO	WARSON RD CST	Debris blocking roadway and emergency road repair	2:56
10	6/10/2020 18:04	Wednesday	US 67 NB	PAST FERDINAND ST	Civil unrest	8:22
11	6/10/2020 18:04	Wednesday	US 67 SB	PAST NEW FLORISSANT RD	Civil unrest	8:22
12	6/12/2020 23:32	Friday	I-70 EB	PAST WENTZVILLE PKWY	Tractor trailer crash with heavy tow needed	2:37
13	6/13/2020 2:55	Saturday	I-44 EB	ON RAMP FROM 3RD ST	Fatal crash with reconstruction	2:51
14	6/13/2020 7:03	Saturday	I-270 WB	PAST BELLEFONTAINE RD	Fatal crash involving a passenger vehicle and tractor trailer	4:16
15	6/16/2020 3:53	Tuesday	I-70 WB	AT O'FALLON PARK	Fatal crash with an extended duration due to tow and crash investigation	4:16
16	6/16/2020 10:34	Tuesday	I-270 WB	AT LILAC AVE	Tractor trailer crash with fuel spill and guardrail damage.	2:22



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#	Date & Time	Day of Week	Route	Location	Description	Duration HH/MM
17	6/17/2020 16:02	Wednesday	S FERGUSON LN CST	E MO 370 WB	Bridge support damage observed. Extended duration due to maintenance inspection	2:47
18	6/17/2020 16:19	Wednesday	MO 370 EB	PAST MO 141		2:46
19	6/22/2020 19:34	Monday	I-70 WB	PAST CHURCH ST	Weather related flooding on roadway	2:01
20	6/23/2020 13:49	Tuesday	I-70 WB	PAST ROUTE TW	Fatal crash involving a passenger vehicle and tractor trailer with vehicle on fire	4:05
21	6/24/2020 20:16	Wednesday	S 367 MO	CHAMBERS RD CST	Fatal multi-vehicle crash with reconstruction	2:40
22	6/24/2020 20:23	Wednesday	N 367 MO	CHAMBERS ST CST		2:34
23	6/25/2020 2:41	Thursday	I-70 EB EXPRESS LANES	AT 9TH ST	Overturned vehicle crash with fatality	3:11
24	6/25/2020 2:41	Thursday	I-44 EB	BEFORE MADISON		3:05
25	6/25/2020 3:50	Thursday	I-64 WB	BEFORE MASON RD	Overturned vehicle crash with fatality	3:57
26	6/26/2020 10:19	Friday	E 340 MO	FEE FEE RD CST	Water main break	3:33
27	6/26/2020 10:37	Friday	W 340 MO	FEE FEE RD CST		3:16
28	6/26/2020 10:40	Friday	I-64 WB	AT MC KNIGHT RD	Single vehicle incident	2:03
29	6/26/2020 18:23	Friday	I-70 EB	AT SALISBURY	Passenger vehicle and tractor trailer crash with injuries	2:04
30	6/27/2020 4:25	Saturday	I-70 EB	PAST SHREVE	Multi-vehicle crash with fatality and reconstruction	3:39
31	6/28/2020 0:10	Sunday	NATURAL BRIDGE AVE CST	JENNINGS STATION RD CST	Fatal crash at intersection. Extended duration due to reconstruction	3:50
32	6/29/2020 21:31	Monday	94 MO	BOONE COUNTRY LN CRD	Multi-vehicle crash with helicopter on scene	2:17
33	6/30/2020 6:34	Tuesday	I-55 NB	PAST CARONDELET BLVD	Crash involving a SUV. State damage reported.	2:58



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#	Date & Time	Day of Week	Route	Location	Description	Duration HH/MM
34	7/4/2020 8:26	Saturday	I-44 EB	PAST GRAND BLVD	Two vehicle crash with fatality and reconstruction	3:42
35	7/5/2020 20:02	Sunday	US 67 SB	PAST NEW FLORISSANT RD	Civil unrest	2:38
36	7/5/2020 20:02	Sunday	US 67 NB	PAST FERDINAND ST	Civil unrest	2:38
37	7/5/2020 23:58	Sunday	I-70 EB	TO N HANLEY RD	Crash involving a county police vehicle	2:22
38	7/6/2020 0:05	Monday	S NORTH HANLEY RD CST	E I-70 EB IS		2:54
39	7/7/2020 23:27	Tuesday	I-44 WB	TO BROADWAY	Police incident	2:18
40	7/7/2020 23:30	Tuesday	I-44 WB	AT TUCKER/SMB	Police incident	2:11
41	7/8/2020 4:12	Wednesday	US 67 SB	AT MCDONNELL BLVD	Water main break	2:30
42	7/10/2020 8:24	Friday	I-170 NB	PAST DELMAR BLVD	Overturned tractor trailer with barrier wall damage	3:01
43	7/10/2020 8:24	Friday	I-170 SB	BEFORE DELMAR BLVD		2:28
44	7/11/2020 5:29	Saturday	MO 370 WB	AT MO RIVER	Tractor trailer crash with injury and fuel spill	4:41
45	7/11/2020 9:42	Saturday	N W RT	BYRNESVILLE RD CRD	Fatal single vehicle crash	2:28
46	7/11/2020 20:40	Saturday	I-70 EB	BEFORE RIVERVIEW BLVD	Two vehicle crash	2:02
47	7/11/2020 20:59	Saturday	I-70 WB	AT SALISBURY	Fatal crash. Motorcycle struck MoDOT emergency response unit	4:42
48	7/14/2020 19:45	Tuesday	I-55 SB	TO US 67 SB	Overturned tractor trailer with spilled load	3:29
49	7/14/2020 20:22	Tuesday	I-55 SB	AT US 67		2:49
50	7/14/2020 23:40	Tuesday	I-55 NB	TO I-270 NB	Police investigation	2:09
51	7/17/2020 9:34	Friday	S 109 MO	OLD STATE RD CST	Overturned dump truck with injury	2:26
52	7/17/2020 12:24	Friday	S 47 MO	COLLEGE AVE CST	Multi-vehicle crash with fatality	2:00



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#	Date & Time	Day of Week	Route	Location	Description	Duration HH/MM
53	7/18/2020 2:49	Saturday	I-70 EB	AT JENNINGS STA RD	Five vehicle crash with large amount of debris in roadway	2:25
54	7/19/2020 22:04	Sunday	I-270 NB	AT MO 370	Vehicle crash involving tractor trailer with fatality	4:08
55	7/21/2020 0:55	Tuesday	I-55 SB	TO US 67 SB	Multi-vehicle crash with overturned car hauler	2:44
56	7/21/2020 1:09	Tuesday	I-55 SB	AT US 67		2:31
57	7/21/2020 8:53	Tuesday	I-55 SB	TO US 67 SB	Vehicle crash with fire and spilled load	3:30
58	7/25/2020 23:35	Saturday	I-55 NB	BEFORE ROUTE Z	Fatal crash involving wrong way driver	2:47
59	7/26/2020 0:21	Sunday	I-55 NB	ON RAMP FROM MCNUTT ST	Vehicle crash	2:02
60	7/27/2020 7:58	Monday	I-270 EB	ON RAMP FROM LINDBERGH BLVD	Single vehicle crash with downed light pole	2:10
61	7/30/2020 5:17	Thursday	I-64 WB	AT MO 94	Single tractor trailer crash	2:30
62	7/31/2020 20:08	Friday	N MUEGGE RD CST	I-70	Single vehicle crash with light pole damage	4:08
63	8/1/2020 4:07	Saturday	I-64 WB	BEFORE I-44	Vehicle crash with police investigation	3:30
64	8/1/2020 6:32	Saturday	I-44 EB	BEFORE GRAND BLVD	Vehicle crash into nearby trees. Guardrail damage reported	2:08
65	8/2/2020 4:17	Sunday	I-55 SB	PAST LINDBERGH BLVD	Three vehicle crash with overturned tractor trailer. Tractor trailer had to be off loaded by hand.	7:34
66	8/3/2020 6:17	Monday	NORTH OUTER FORTY DR	BEFORE MO 141	Stalled tractor trailer	2:00
67	8/3/2020 19:57	Monday	I-44 WB	BEFORE I-64	Two vehicle crash with fatality and accident reconstruction	2:59
68	8/3/2020 20:23	Monday	I-70 EB EXPRESS LANES	AT UNION BLVD	Two vehicle crash with fatality and accident reconstruction	2:34
69	8/4/2020 2:57	Tuesday	E PAGE AVE CST	I-170 NB IS	Two vehicle crash with fatality. Extended duration due to accident reconstruction	3:08
70	8/4/2020 3:02	Tuesday	W PAGE AVE CST	I-170 NB IS		2:35



INCIDENT MANAGEMENT

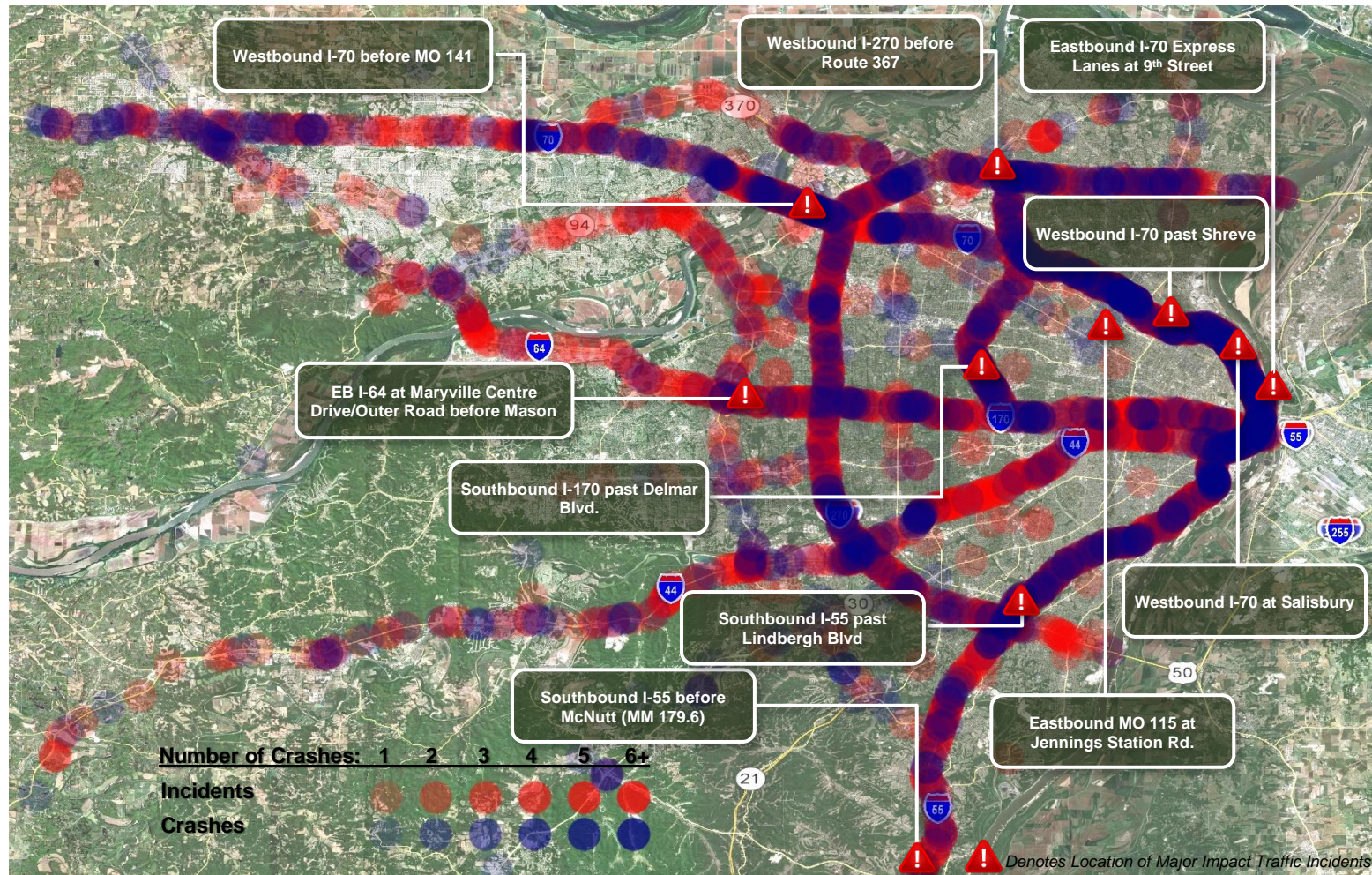
ST. LOUIS DISTRICT ■ QUARTERLY REGIONAL MOBILITY REPORT ■ JUNE / JULY / AUGUST 2020



#	Date & Time	Day of Week	Route	Location	Description	Duration HH/MM
71	8/4/2020 11:06	Tuesday	I-55 NB	AT IMPERIAL MAIN ST	Fatal crash. Vehicle struck pillar of overpass. Extended duration for accident reconstruction.	2:42
72	8/6/2020 14:40	Thursday	I-55 NB	BEFORE POTOMAC ST	Fatal multi-vehicle crash with overturned vehicle and entrapment	2:58
73	8/7/2020 23:43	Friday	I-270 EB	PAST RIVERVIEW RD	Vehicle struck pedestrian resulting in a fatality and accident reconstruction	3:38
74	8/8/2020 23:33	Saturday	I-70 WB	AT ROUTE A	Weather related vehicle crash	3:05
75	8/10/2020 1:18	Monday	E FIRST CAPITOL DR CST	E I-70 EB IS	Two vehicle crash involving a motorcycle resulting in two injuries and accident reconstruction	2:51
76	8/11/2020 13:41	Tuesday	I-270 SB	BEFORE MANCHESTER RD	Tractor trailer fire	2:16
77	8/20/2020 12:14	Thursday	I-55 NB	BEFORE RICHARDSON RD	Police investigation	2:23
78	8/23/2020 1:32	Sunday	MO 370 EB	AT MO RIVER	Motorcycle crash with police investigation and accident reconstruction	3:30
79	8/23/2020 12:08	Sunday	E 40 OR	BEFORE MASON RD	Tractor trailer fire with cleanup of over 500 gallons of diesel, anti-freeze, and oil	5:13
80	8/23/2020 12:25	Sunday	I-64 EB	PAST MARYVILLE CENTRE DR		4:18
81	8/25/2020 8:59	Tuesday	I-44 EB	PAST ROUTE AF/MO 185 S	Tractor trailer carrying produce caught fire and was then offloaded	3:40
82	8/28/2020 14:53	Friday	I-55 SB	BEFORE MCNUTT ST	Multi-vehicle crash with three injuries	2:37
83	8/29/2020 8:27	Saturday	270 OR	past West Florissant	Vehicle crash into ditch with extended duration due to investigation	2:24
84	8/30/2020 6:31	Sunday	I-70 WB	PAST SHREVE	Fatal crash with a lighting knockdown and accident reconstruction	4:14
85	8/30/2020 6:31	Sunday	I-70 WB	ON RAMP FROM SHREVE AVE		4:09



June / July / August 2020 Incidents with Mobility Impact Map





INCIDENT MANAGEMENT


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Major Impact Traffic Incidents and Mitigation

6/13/2020 (Saturday)

- **Time:** 7:03 am – 11:19 am *****Fatality*****
- **Location:** St. Louis County – Westbound I-270 before Route 367
- **Event Type:** 2 Vehicle Crash - Fatality
- **Estimated Initial Impact:** Non-Rush Hour: 3 of 3 lanes affected equals (=) 100%
- **Incident Details:** Passenger vehicle struck the rear of a tractor trailer at the start of a work zone taper.
- **Action Taken:** The TMC confirmed the incident via CCTV. TMC operators entered the event into ATMS and activated appropriate DMS boards. Emergency Response was dispatched to scene to assist with traffic control. Traffic was detoured onto the Bellefontaine exit to access the outer road around the incident. Incident alerts were sent out to the appropriate email groups. Telephone notifications were made to IDOT(to activate DMS), MoDOT EOC, SL Community Relations, SL Traffic Operations Supervisor and SL Area Engineer. Traffic queued one mile. The extended traffic event duration was due to the nature of the event and the investigation that followed.
- **Event Duration:** 4 hours 16 minutes

	Westbound I-270 before Route 367	Lane 1	Lane 2	Lane 3	Right Shoulder
		Closed Hours/Minutes	4:16	4:16	4:16



INCIDENT MANAGEMENT

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Major Impact Traffic Incidents and Mitigation

6/25/2020 (Thursday)

- **Time:** 2:39 am – 5:50 am *****Fatality*****
- **Location:** St. Louis City Eastbound I-70 Express Lanes at 9th Street
- **Event Type:** 1 Vehicle Crash - Fatality
- **Estimated Initial Impact:** Non-Rush Hour: 2 of 2 travel lanes affected equals (=) 100%
- **Incident Details:** STLMPD contacted the TMC to report an incident in the I-70 Express Lanes. After checking the cameras, it was discovered a vehicle was overturned near the end of express lanes. Emergency vehicles investigated the scene from the Eastbound I-44 lanes and closed the two left lanes before Madison from (2:41 am - 5:46 am).
- **Action Taken:** Two Emergency Response Units were sent to the scene to help with traffic control. Due to the nature of the incident, one was placed on I-44 and the other at the beginning of the express lanes. The Emergency Response Supervisor and Community Relations were contacted. The TMC used DMS boards along I-44, I-55 and I-70 to warn motorists of incident. An incident alert was sent to notify District Leadership. A ¾ mile traffic queue resulted after daylight hours came. The duration of the incident was extended due issues removing the deceased and reconstruction.
- **Event Duration:** 3 hours 11 minutes

	Eastbound I-70 Express Lanes at 9 th Street	Lane 1	Lane 2	Right Shoulder
Closed Hours/Minutes		3:11	3:11	3:11



	Eastbound I-44 before Madison	Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes		3:05	3:05		





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Major Impact Traffic Incidents and Mitigation

6/28/2020 (Sunday) ***Fatality***

- **Time:** 0:09 am – 4:01 am
- **Location:** St. Louis County – Eastbound MO 115 at Jennings Station
- **Event Type:** 2 Vehicle Crash - Fatality
- **Estimated Initial Impact:** Non-Rush Hour: 2 of 2 travel lanes affected equals (=) 100%
- **Incident Details:** The TMC operator heard a report of a vehicle into a building. After checking the cameras there were no vehicles into any building. There was one vehicle in the middle of the intersection.
- **Action Taken:** Due to being off normal Emergency Response route, they were not sent. MSHP did not need assistance, North County Cooperative Police provided traffic control. After the eastbound lanes were closed, the westbound lanes were briefly closed. The Emergency Response Supervisor was contacted. Due to the location of the incident, no DMS boards were needed. The incident was added to TMS to help warn motorists. The duration of the incident was extended due to the wait for reconstruction personnel to arrive.

Event Duration: 3 hours 49 minutes

	Natural Bridge Rd at Jennings Station Rd	Lane 1	Lane 2	Right Shoulder
Closed Hours/Minutes		3:49	3:49	3:49



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Major Impact Traffic Incidents and Mitigation

7/10/2020 (Friday)

- **Time:** 8:23 am – 11:24 am
- **Location:** University City, St. Louis County Southbound and Northbound I-170 past Delmar Blvd
- **Event Type:** Overtaken Tractor Trailer
- **Estimated Initial Impact:** Rush Hour: 3 of 3 travel lanes in both directions affected equals (=) 100%
- **Incident Details:** The TMC operators viewed a tractor trailer overturned. The tractor was on its side in the northbound lanes of I-170 and the trailer had overturned in the southbound lanes. The driver of the tractor trailer was not injured. The TMC dispatched MoDOT ER to the scene.
- **Action Taken:** University City PD, University City FD, and EMS blocked lanes for northbound traffic while University City Pd blocked the southbound lanes. University City PD began diverting traffic to the exit ramp to Ladue Road to re-enter on the entrance ramp at Delmar at 8:44 am(closing the 3rd lane of traffic). Emergency Response assisted with the diversion onto Ladue Rd as well as handled the diversion of traffic onto Olive Blvd. The TMC messaged for the event and entered it into TMS to notify the public of the closure. Community Relations and Motor Carriers were notified. An incident alert, update and cleared were used to advise management of the closure. COIncident was also messaged. Traffic queued approximately 1 mile both northbound and southbound. Traffic returned to normal when all lanes were opened. Maintenance then returned to the scene to repair the median wall. This work closed the northbound left lane for approximately 31 minutes.
- **Event Duration:** Northbound I-170: 3 hours 1 minute
- **Event Duration:** Southbound I-170: 2 hours 24 minutes

	Northbound I-170 at Airport Road	Left Shoulder	Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes		3:01	3:01	3:01	3:01	3:01



	Southbound I-170 at Airport Road	Left Shoulder	Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes		2:24	2:24	2:24	2:24	2:24





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Major Impact Traffic Incidents and Mitigation

7/11/2020 (Saturday)

- **Time:** 8:57 pm - 1:39 am *****Fatality*****
- **Location:** St. Louis City, Westbound I-70 at Salisbury
- **Event Type:** Vehicle Crash - Fatality
- **Estimated Initial Impact:** Non-Rush Hour: 3 of 3 travel lanes affected equals (=) 100%
- **Incident Details:** A MoDOT Emergency Response unit stopped in the traffic lanes to remove a mattress from the roadway. The driver of a motorcycle failed to observe the MoDOT vehicle with emergency lights/arrow board activated and struck the rear of the MoDOT vehicle. The motorcyclist was transported to a local hospital and pronounced shortly after arrival.
- **Action Taken:** The TMC was in the process of entering the debris stop when the ER operator advised that his vehicle had been struck. The TMC supervisor immediately contacted St. Louis City PD and EMS to notify them of the crash. The incident was entered into event manager and DMS boards were activated. This also auto generated the closure into TMS to alert drivers. An additional MoDOT Emergency Responder was dispatched to assist with traffic control. St. Louis City PD, Fire & EMS responded. All lanes of Westbound I-70 were closed and traffic was diverted off onto Branch to take the outer road where they could re-enter the highway at Salisbury. Per request, MSHP responded to take command of the scene and complete the incident investigation/reconstruction. Notifications were made to MoDOT Command Staff, the Incident Management Coordinator, Risk Management, and Community Relations. Further, the I70IM and SLCityCountyIMText were sent. The extended duration was due to the incident reconstruction. Traffic queued less than a mile.
- **Event Duration:** 4 hours 42 minutes

	Westbound I-70 at Salisbury	Left Shoulder	Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes		4:42	4:42	4:42	4:42	4:42



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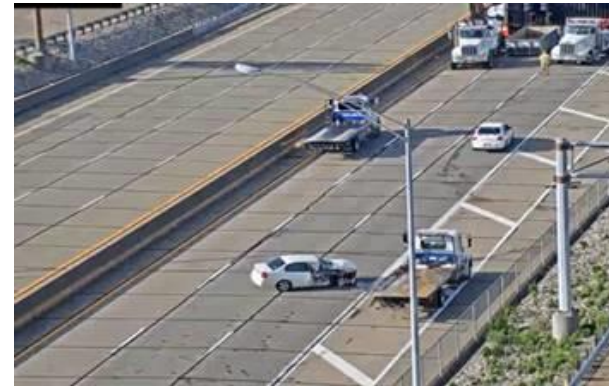
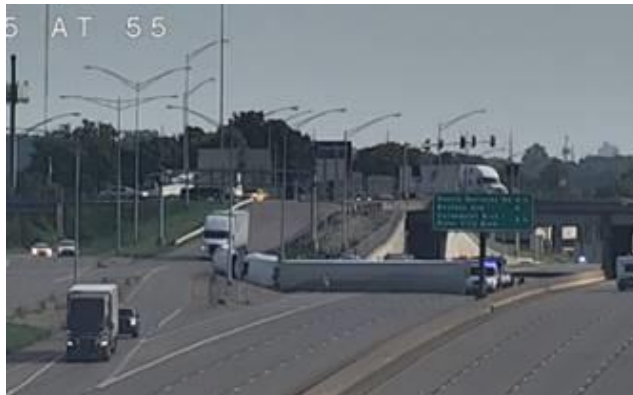


Major Impact Traffic Incidents and Mitigation

8/2/2020 (Sunday)

- **Time:** 4:17 am – 11:50 am
- **Location:** St. Louis County – Southbound I-55 past Lindbergh
- **Event Type:** 3+ Vehicle Collision – Non - Fatal
- **Estimated Initial Impact:** Non-Rush Hour: 3 of 3 travel lanes affected equals (=) 100%
- **Incident Details:** TMC operators heard a report over the scanner for a vehicle accident involving a tractor trailer. After checking the cameras, an overturned tractor trailer was found on its side with another tractor trailer on the shoulder of the road and a damage passenger vehicle. After the emergency responders arrived, the interstate was closed. The police diverted traffic to Lindbergh and I-270/I-255 ramps. The overturned tractor trailer was loaded with toilet paper and lost a significant amount of the fuel. Department of Natural Resources was contacted the police due assist with any cleanup of the spilled fuel. Due to damage of the trailer, it had to be offloaded before it could be removed. It was offloaded by a machine and by hand and dumped into dump trucks.
- **Action Taken:** Two Emergency Response Unit were sent to the scene to help with traffic control. The units assisted with traffic control in the southbound lanes. The TMC used DMS boards along I-55 and US 67 to warn motorists of the closure in addition to activating a floodgate for the website. An incident alert was sent to notify District Leadership and Central Office. There was no traffic queue before or after traffic was diverted to the ramps. The duration of the incident was extended due to the trailer being offloaded and taking over an hour to upright and secure the tractor trailer for removal.
- **Event Duration:** 7 hours 33 minutes

	Southbound I-55 past Lindbergh	Left Shoulder	Lane 1	Lane 2	Lane 3	Right Shoulder
		Closed Hours/Minutes	7:33	7:33	7:33	7:33





INCIDENT MANAGEMENT


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Major Impact Traffic Incidents and Mitigation

8/13/2020 (Thursday)

- **Time:** 2:56 am- 4:47 am
- **Location:** St. Louis County – Westbound I-70 before MO 141
- **Event Type:** Vehicle Fire
- **Estimated Initial Impact:** Non-Rush Hour: 3 of 5 Lanes Closed
- **Incident Details:** UPS Tractor-Trailer caught fire
- **Action Taken:** TMC Operators heard of the incident via radio, confirmed incident on CCTV and notified MoDOT Emergency Response to assist with traffic control. TMC Operators entered the event into ATMS and activated appropriate DMS boards. Three right lanes of traffic were closed due to putting the fire out. The cab of the tractor-trailer was the only piece that caught fire. The fire department was dispatched along with PD. Lanes were closed as emergency responders arrived on scene. No diversion was needed for traffic due to lower traffic volumes. Lanes one and two remained opened for the duration of the incident. The extended duration for this event was due to waiting on a new cab to arrive. Once the new cab arrived attempts were made to pull the trailer with the cab, but this was un-successful. Heavy Tow was ordered to the scene by the contracting company. The tractor-trailer driver from the incident went with the new cab driver. MoDOT Emergency Response then cleared all lanes.
- **Event Duration:** 1 hour 51 minutes


	Westbound I-70 before MO 141	Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Right Shoulder
Closed Hours/Minutes		0:00	0:00	0:16	0:38	1:48	1:51



Major Impact Traffic Incidents and Mitigation

8/23/2020 (Sunday)

- **Time:** 12:08 pm – 5:21 pm
- **Location:** St. Louis County – Eastbound I-64 Outer Road before Mason
- **Event Type:** Vehicle Fire – Non - Fatal
- **Estimated Initial Impact:** Non-Rush Hour: 3 of 3 travel lanes affected equals (=) 100%
- **Incident Details:** TMC operators heard a report over the scanner for a vehicle fire involving a tractor trailer. After checking the cameras, a tractor trailer was found on its side and on fire on the shoulder of the road. After the emergency responders arrived, the outer road was closed along with 2 right lanes on the interstate. The tractor trailer lost over 500 gallons of the fuel, oil and antifreeze in the culvert. The Department of Natural Resources was contacted by the police to assist with any cleanup of the liquids.
- **Action Taken:** One Emergency Response Unit was sent to the scene to help with traffic control for the interstate lane closure while the police department provided traffic control on the outer road. There was no traffic queue before or after due to vehicles being detoured onto the interstate. The duration of the incident was extended due to the Department of Natural Resources needing to conduct their cleanup before the vehicle could be removed.
- **Event Duration:** 5 hours 12 minutes

	Eastbound I-64 Outer Road before Mason	Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes		4:33	4:33	5:12	5:12



Major Impact Traffic Incidents and Mitigation

8/23/2020 (Sunday)

- **Time:** 12:23 pm – 4:41 pm
- **Location:** St. Louis County – Eastbound I-64 past Maryville Centre Dr
- **Event Type:** Emergency Vehicles – Non - Fatal
- **Estimated Initial Impact:** Non-Rush Hour: 2 of 4 travel lanes affected equals (=) 50%
- **Incident Details:** Vehicle fire on the I-64 Outer Road. Police closed the two right lanes on the interstate for recovery efforts. As a safety precaution, the police requested that the right lane remain closed until the smoke cleared.
- **Action Taken:** One Emergency Response Unit was sent to the scene to help with traffic control. The unit assisted with traffic control in the eastbound lanes. The TMC used DMS boards along I-64 and MO 141 to warn motorists of the lane closures. The duration of the incident was extended due to recovery and cleanup efforts.
- **Event Duration:** 4 hours 18 minutes

	Eastbound I-64 past Maryville Center Dr	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
Closed Hours/Minutes					3:29	4:18	4:18






Major Impact Traffic Incidents and Mitigation

8/28/2020 (Friday)

- **Time:** 2:52 pm – 5:29 pm
- **Location:** Pevely, Jefferson County Southbound I-55 before McNutt (Mile Marker 179.6)
- **Event Type:** Multi-vehicle crash (21 vehicles)
- **Estimated Initial Impact:** Non-rush hour into rush hour: 2 of 2 travel lanes affected equals (=) 100%
- **Incident Details:** The TMC operators received a call of a motor vehicle accident from Pevely Police Department. There were an unknown number of vehicles involved, but was advised of a tractor trailer, SUV, and a truck pulling a camper involved during heavy rainfall. The TMC dispatched MoDOT ER to the scene with confirmation from Pevely PD that PD, Fire and EMS services were enroute. The vehicle count came to three tractor trailers, a RV, a truck pulling a camper, SUV and multiple passenger vehicles totaling 21.
- **Action Taken:** Pevely PD, Dunklin Fire, and Joachim-Plattin EMS blocked the two lanes for southbound traffic while MSHP redirected traffic onto Route Z. MoDOT Emergency Response took over directing traffic onto Route Z while MSHP blocked the entrance ramp from Route Z. Additional MoDOT units responded to the accident scene to assist with clean up. A traffic engineer was contacted and began to adjust necessary signal timing to assist with traffic control. The ER supervisor, Motor Carriers, Community Relations, and EOC were notified. The TMC messaged for the event and entered it into TMS to notify the public of the closure. Waiting for multiple tows (17 needed) delayed the response for vehicle removal. Traffic queued approximately 5.2 miles for southbound traffic. Traffic returned to normal approximately 23 minutes after all lanes were opened.
- **Event Duration:** 2 hours 37 minutes

	Southbound I-55 before McNutt (MM 179.6)	Left Shoulder	Lane 1	Lane 2	Right Shoulder
Closed Hours/Minutes		2:37	2:37	2:37	2:37





Major Impact Traffic Incidents and Mitigation

8/30/2020 (Sunday)

- **Time:** 6:31 am – 10:44 am ***Fatality***
- **Location:** St. Louis City – Westbound I-70 past Shreve
- **Event Type:** 1 Vehicle Collision – Fatality
- **Estimated Initial Impact:** Non-Rush Hour: 4 of 4 travel lanes affected equals (=) 100%
- **Incident Details:** TMC operator found an accident Westbound I-70 past Shreve during a routine camera check. The three right lanes were closed by police, fire and EMS departments. The vehicle was overturned in the grass near the roadway. The overturned vehicle also knocked down a roadway light which landed in the roadway. Additional police units closed the entrance ramp from Shreve to Westbound I-70. The police on scene confirmed the driver was deceased. Accident reconstruction and tow were notified. When accident reconstruction started gathering information for the investigation, the police department closed all lanes of the interstate. The traffic was diverted to West Florissant.
- **Action Taken:** One Emergency Response Unit was sent to the scene to help with traffic control. The TMC used DMS boards along I-70 and I-44 to warn motorists of the closure in addition to activating a floodgate for the website. An incident alert was sent to notify District Leadership. No traffic queue resulted before traffic was diverted to West Florissant. A signal electrician was dispatched to address the roadway lighting pole that was knocked down. The duration of the incident was extended due to accident reconstruction and vehicle removal.
- **Event Duration:** 4 hours 13 minutes

	Westbound I-70 past Shreve	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
Closed Hours/Minutes		2:42	2:42	3:16	3:33	4:02	4:06

