



ST. LOUIS DISTRICT MOBILITY

SEPTEMBER/OCTOBER 2016

GUIDEPOST

- FREEWAY MOBILITY WAS FAIRLY CONSISTENT IN BOTH PEAKS WITH EASE OF MOVEMENT BETTER IN AM THAN PM
- MOBILITY ON EASTBOUND I-64 IMPROVED IN THE AM/PM FROM SEPTEMBER TO OCTOBER WITH COMPLETION OF THE WIDENING PROJECT FROM TIMBERLAKE MANOR TO I-270
- WESTBOUND I-70 PM IMPROVED FROM SEPTEMBER TO OCTOBER ONCE THE I-70 AT I-170 CONSTRUCTION COMPLETED AND LANE SHIFTS WERE REMOVED
- SLOW TRAVEL CONTINUED DOWNTOWN ON I-64 AND I-70 IN AND OUT OF THE CITY DURING THE PM PEAK
- RIVER CROSSINGS WERE CONSISTENT FROM SEPTEMBER TO OCTOBER IN BOTH TRAVEL DIRECTIONS
- TRACTOR TRAILER CRASH DATA HAS BEEN MAPPED AND ADDED TO THIS REPORT



TRACTOR TRAILER CRASHES CONTINUE TO IMPACT MOBILITY WITHIN THE REGION LIKE THE ONE PICTURED ABOVE. DATA ON TRACTOR TRAILER CRASHES FROM 2014-2016 HAS BEEN INCLUDED IN THIS REPORT.

MOBILITY SNAPSHOT

FREEWAY MOBILITY

SEPTEMBER TO OCTOBER COMPARISON:

AM SLIGHT IMPROVEMENT / PM CONSISTENT

FREEWAY AVERAGE 24 HOUR VOLUMES

SEP 2015 → SEP 2016: -4.97%

OCT 2015 → OCT 2016: -2.43%

MAJOR INCIDENTS

SEP 2016: 7 → OCT 2016: 5

AVERAGE INCIDENT DURATION SEP → OCT

LANE CLEARANCE: 25:40 → 25:09

INCIDENT CLEARANCE: 29:58 → 29:16
(MIN: SEC)

MAJOR IMPACT WORK ZONES

SEP → 4 OCT → 2

MODERATE IMPACT WORK ZONES

SEP → 10 OCT → 4

ZONING IN

TMS WORK ZONES

◆ SEPTEMBER 2016: 283

◆ OCTOBER 2016: 253

WORK ZONE BREAKDOWN:

- ◆ MAJOR: 6 - 2.0%
- ◆ MODERATE: 14 - 4.6%
- ◆ MINOR: 285 - 93.4%

WORK ZONE CRASHES: 10





WORK ZONES

TMC Observed Work Zones September - October 2016			
September		October	
Level of Travel Time Impact	Number of Work Zones	Level of Travel Time Impact	Number of Work Zones
Major Impact	4	Major Impact	2
Moderate Impact	10	Moderate Impact	4
Minor Impact	154	Minor Impact	131
Total	168	Total	137

*Impact Levels described in Data Key

SL Mobility Rating:

- ◆ Sep 2016: 94%
- ◆ Oct 2016: 95%
- ◆ Goal: 91%

SL Visibility levels:

- ◆ Sep 2016: 97%
- ◆ Oct 2016: 98%
- ◆ Goal: 91%

Major Impact (15 Minutes or Above Additional Travel Time)

9/22 (Thursday) Eastbound I-70 at I-170 Lane shift / narrow lanes (2 Major 4 Moderate)

- Lane shift with additional lane closures throughout the day
- All mitigation efforts were in use
- RITIS data recorded an additional 19 minutes of travel time in the AM and PM peaks

9/26 (Monday) Eastbound I-70 at I-170 Lane shift / narrow lanes (2 Major 4 Moderate)

- Lane shift with additional lane closures throughout the day
- All mitigation efforts were in use
- RITIS data recorded an additional 21 minutes of travel time in the AM and PM peaks

10/19 (Wednesday) Westbound I-70 at I-170 Center lane closed (2 Major 4 Moderate)

- First morning drive of center lane closure in place for 14 days
- All mitigation efforts were in use
- RITIS data recorded an additional 47 minutes of travel time in the AM and PM peak

Moderate Impact (10-14 Minutes Additional Travel Time)

9/23 (Friday) Eastbound I-70 at I-170 Center lane closed (1 Moderate)

- Center lane closure in place for 14 days
- All mitigation efforts were in use
- RITIS data recorded an additional 12 minutes of travel time in the AM and PM peaks



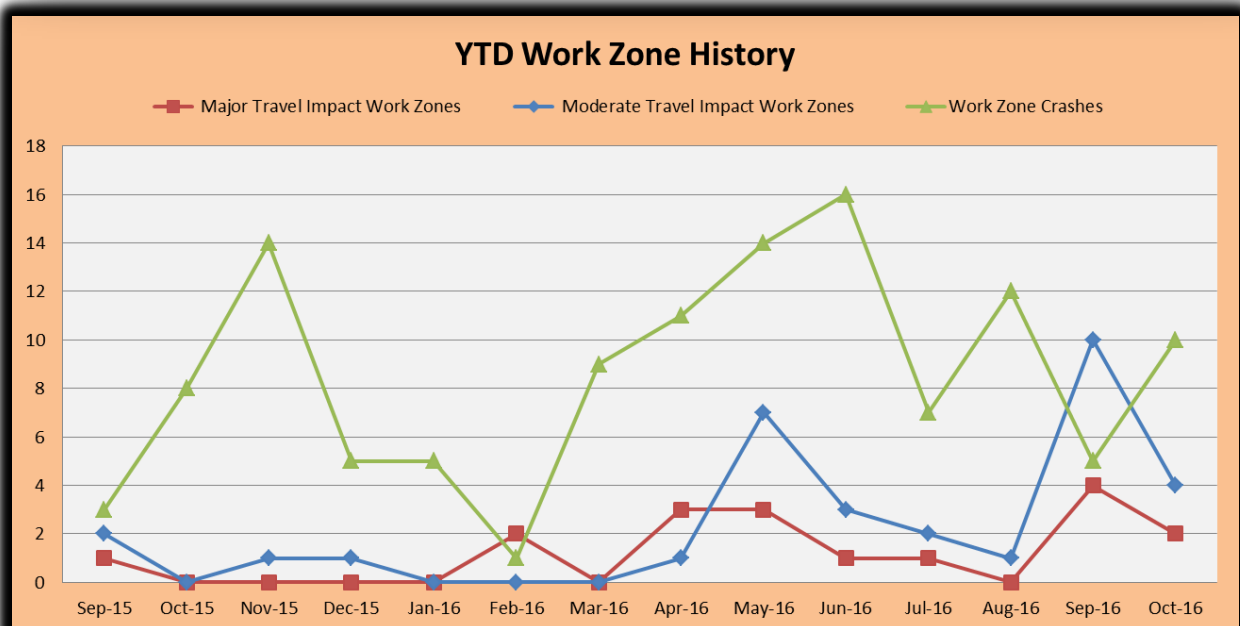
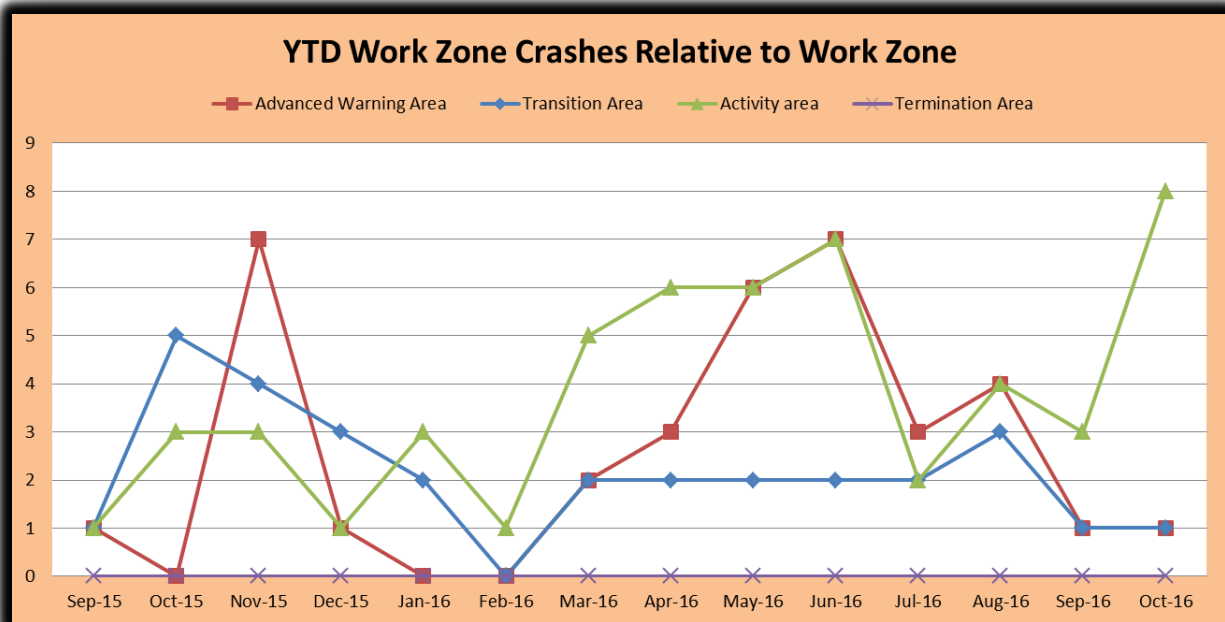
WORK ZONES

9/26 (Monday) Eastbound I-70 at I-170 Center lane closed (1 Moderate)

- Center lane closure in place for 14 days
- All mitigation efforts were in use
- RITIS data recorded an additional 14 minutes of travel time in the AM and PM peaks

Work Zone Related Crashes with Mobility Impact

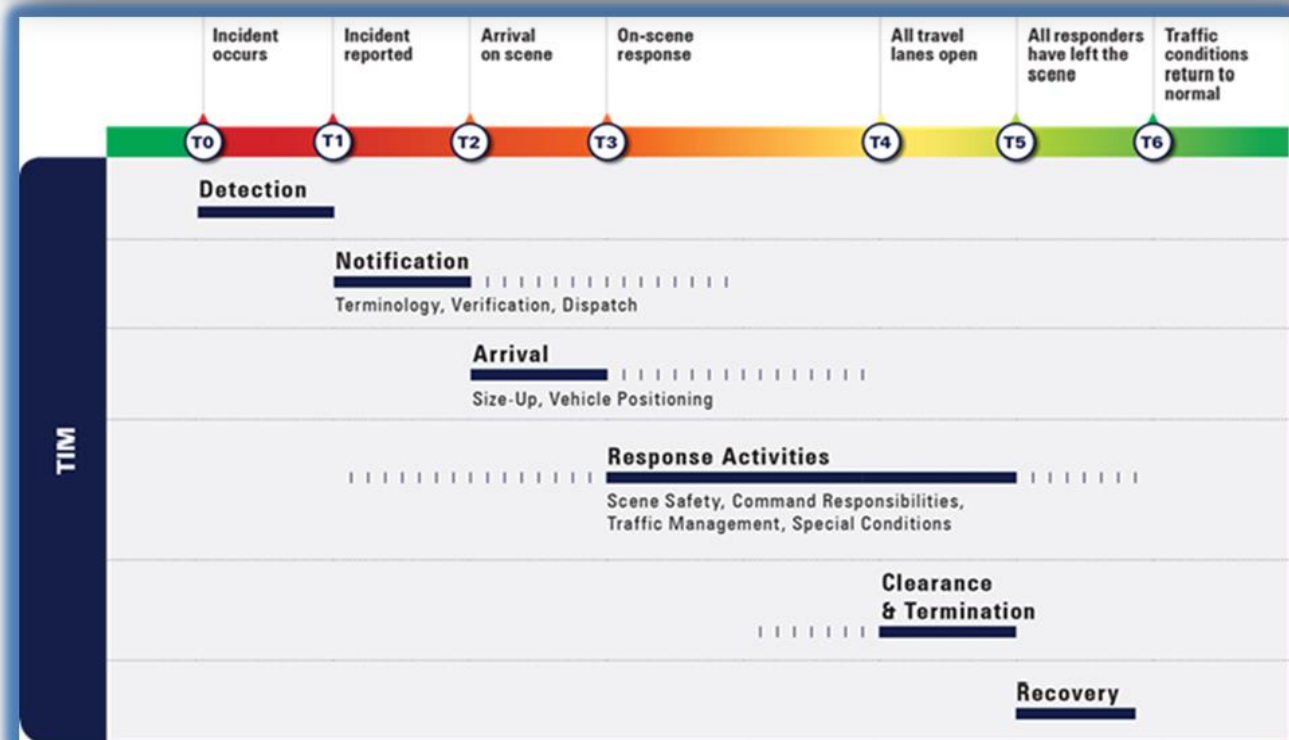
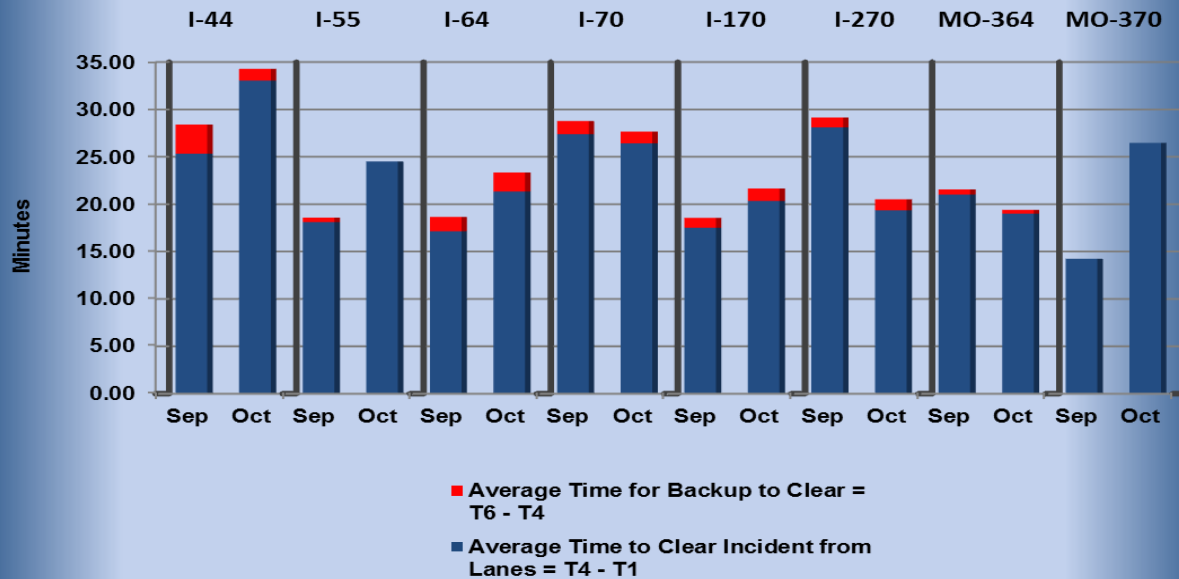
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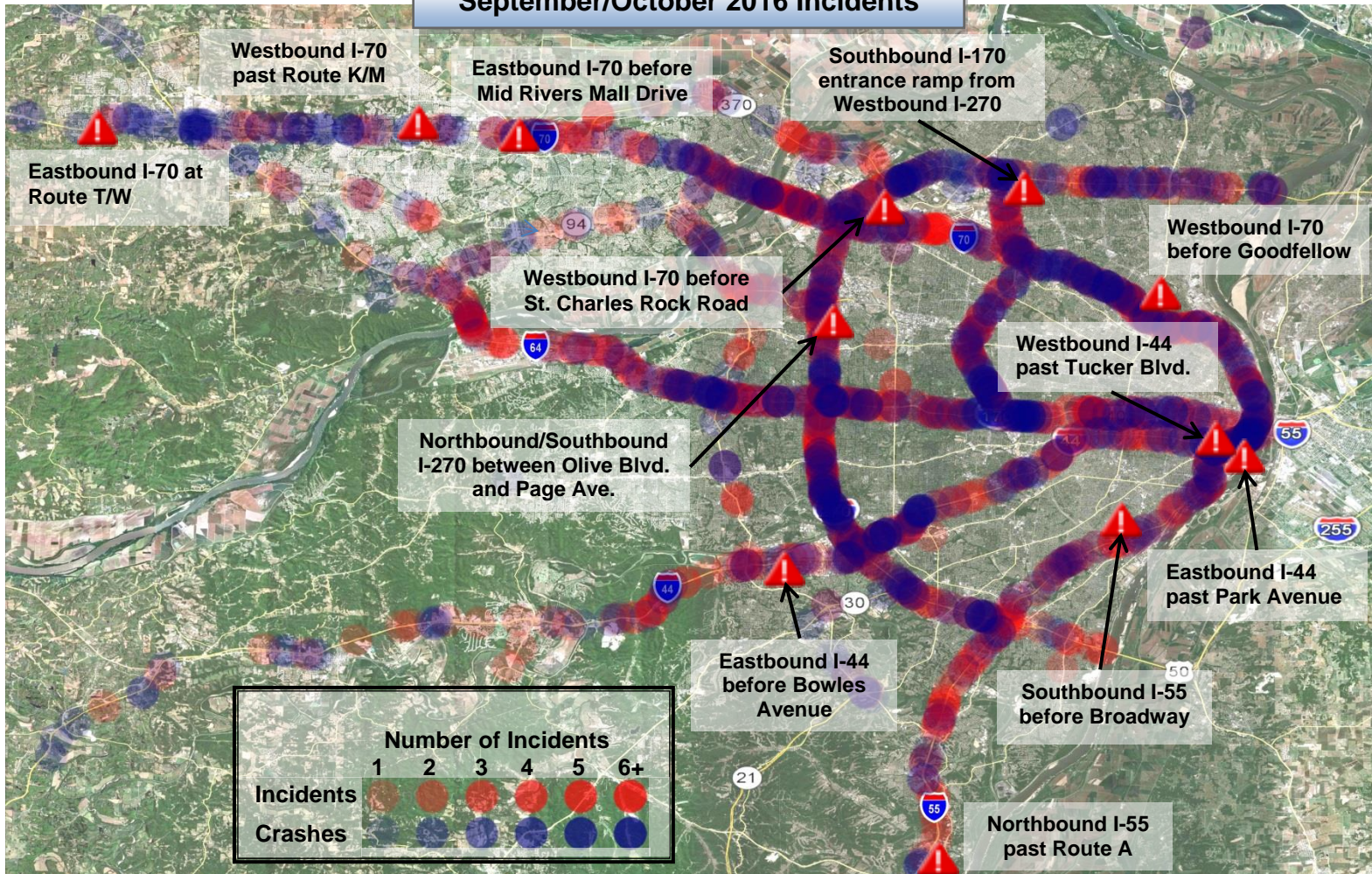
INCIDENT MANAGEMENT

September 2016 vs. October 2016
Incidents Summary



INCIDENT MANAGEMENT

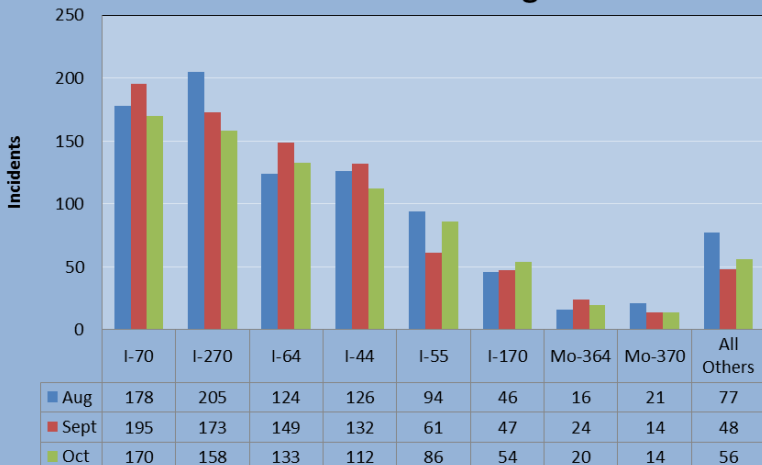
September/October 2016 Incidents



⚠ Denotes Location of Major Impact Traffic Incidents

Total Number of Incidents: August: 887 / September: 843 / October: 803

Total Number of Lane Blocking Incidents



Major Impact Incidents

September 2016 vs. October 2016
(7) (5)

Fatal Incidents

September 2016 vs. October 2016
(7) (6)

Tractor Trailer Incidents

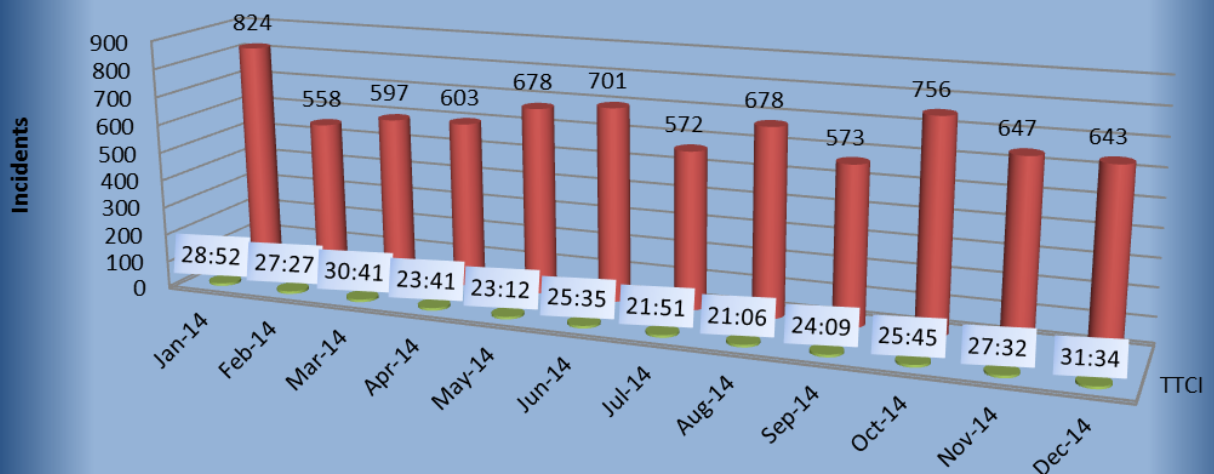
September 2016 vs. October 2016
(57) (47)

INCIDENT MANAGEMENT

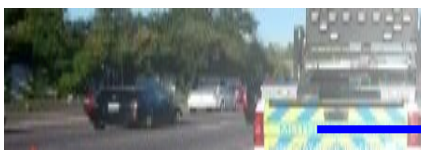
Lane Blocking Incidents by Freeway September and October 2016

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	Sep	132	25:34	03:07	33	4.00
I-44	Oct	112	33:05	01:23	33	3.39
I-55	Sep	61	18:01	00:48	23	2.65
I-55	Oct	86	24:52	00:00	23	3.74
I-64	Sep	149	17:15	01:50	40	3.73
I-64	Oct	133	21:34	02:01	40	3.33
I-70	Sep	195	27:38	01:39	38	5.13
I-70	Oct	170	26:41	01:26	38	4.47
I-170	Sep	47	17:52	01:04	11	4.27
I-170	Oct	54	20:35	01:30	11	4.91
I-270	Sep	173	28:10	01:05	36	4.81
I-270	Oct	158	19:34	01:18	36	4.39
MO-364	Sep	24	21:02	00:55	11	2.18
MO-364	Oct	20	19:01	00:39	11	1.82
MO-370	Sep	14	14:24	00:00	13	1.08
MO-370	Oct	14	26:47	00:00	13	1.08
Total	Sep/Oct	1542	22:38	01:10	410	3.76

2014 Number of Incidents and Time to Clear Lanes



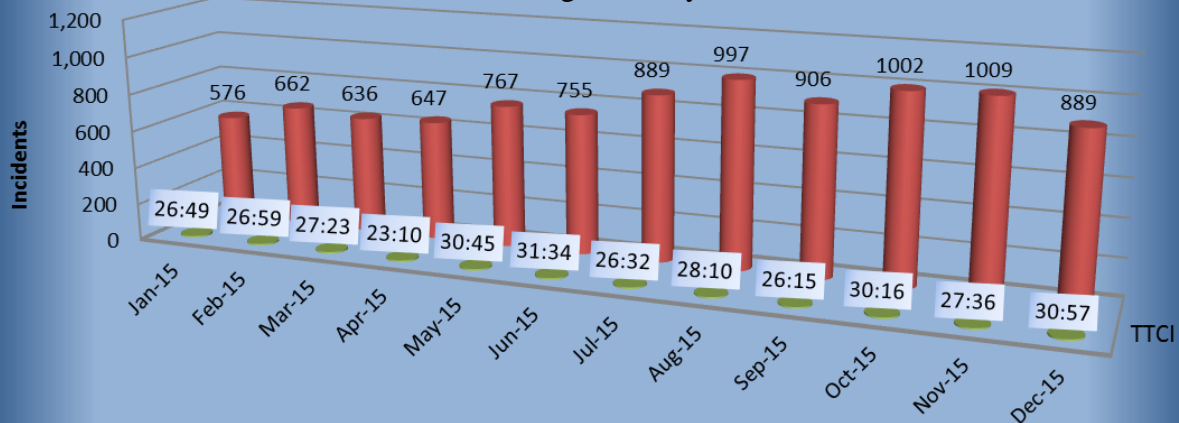
	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
TTCI	28:52	27:27	30:41	23:41	23:12	25:35	21:51	21:06	24:09	25:45	27:32	31:34
Incidents	824	558	597	603	678	701	572	678	573	756	647	643



INCIDENT MANAGEMENT

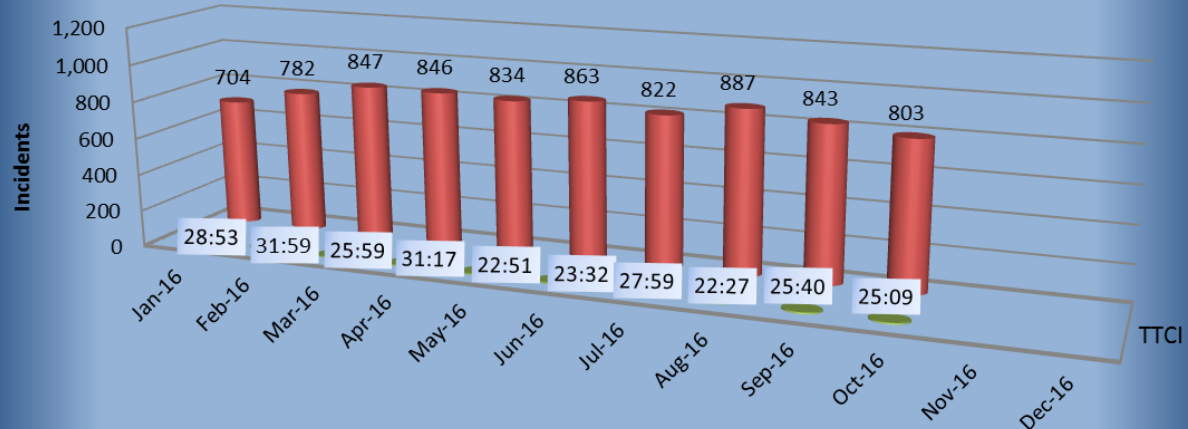
2015 Number of Incidents and Time to Clear Lanes

*Note changes in Incident reporting data began in July 2015



	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
TTCI	26:49	26:59	27:23	23:10	30:45	31:34	26:32	28:10	26:15	30:16	27:36	30:57
Incidents	576	662	636	647	767	755	889	997	906	1002	1009	889

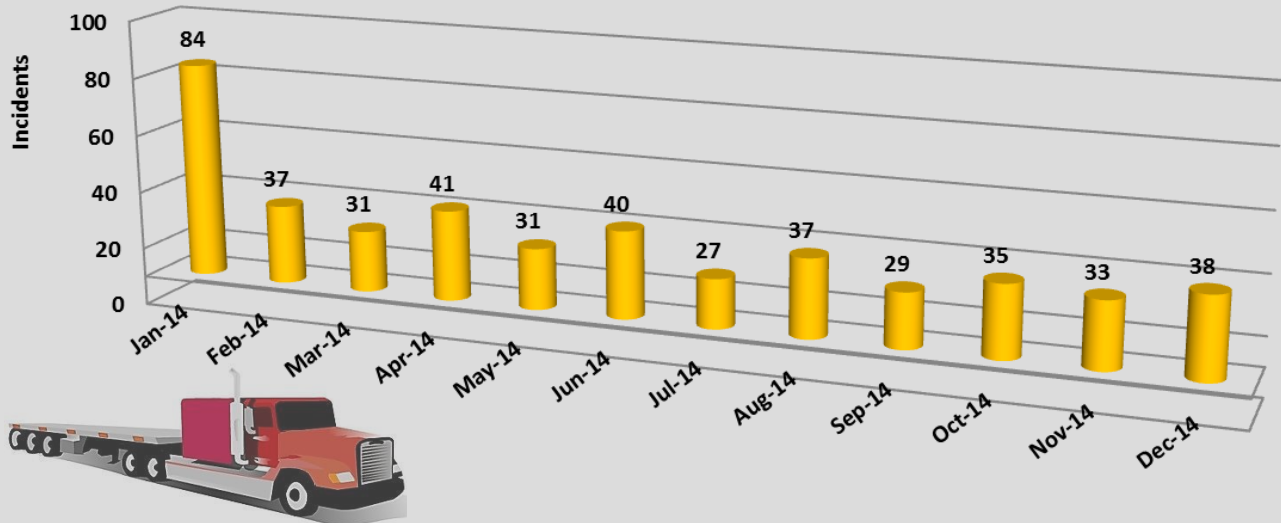
2016 Number of Incidents and Time to Clear Lanes



	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
TTCI	28:53	31:59	25:59	31:17	22:51	23:32	27:59	22:27	25:40	25:09		
Incidents	704	782	847	846	834	863	822	887	843	803		

INCIDENT MANAGEMENT

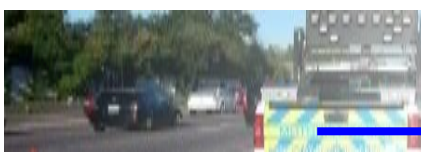
2014 Number of Tractor Trailer Incidents



	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
Incidents	84	37	31	41	31	40	27	37	29	35	33	38

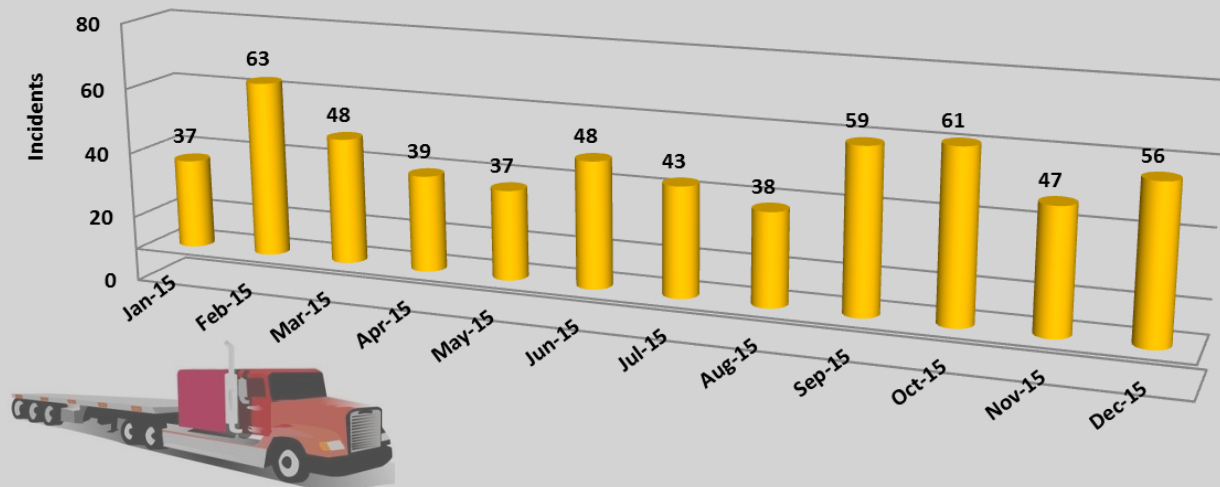
2014	I-44	I-55	I-64	I-70	I-170	I-255 / I-270	Route 364	Route 370	Other	Total
Jan	21	7	9	30	3	10	3	1	0	84
Feb	5	3	6	15	1	6	0	1	0	37
Mar	8	7	6	5	0	4	0	1	0	31
Apr	8	3	12	7	0	11	0	0	0	41
May	5	9	4	4	1	8	0	0	0	31
Jun	11	9	5	8	0	7	0	0	0	40
Jul	4	2	9	4	0	7	0	1	0	27
Aug	5	4	7	8	2	10	0	1	0	37
Sep	3	3	4	10	0	8	0	1	0	29
Oct	5	7	6	6	1	7	0	3	0	35
Nov	2	4	6	9	1	8	0	3	0	33
Dec	7	7	2	12	1	8	0	1	0	38
Totals	84	65	76	118	10	94	3	13	0	463

*Other Routes are MoDOT maintained non-freeway routes and were not included on system until July 2015



INCIDENT MANAGEMENT

2015 Number of Tractor Trailer Incidents



	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
Incidents	37	63	48	39	37	48	43	38	59	61	47	56

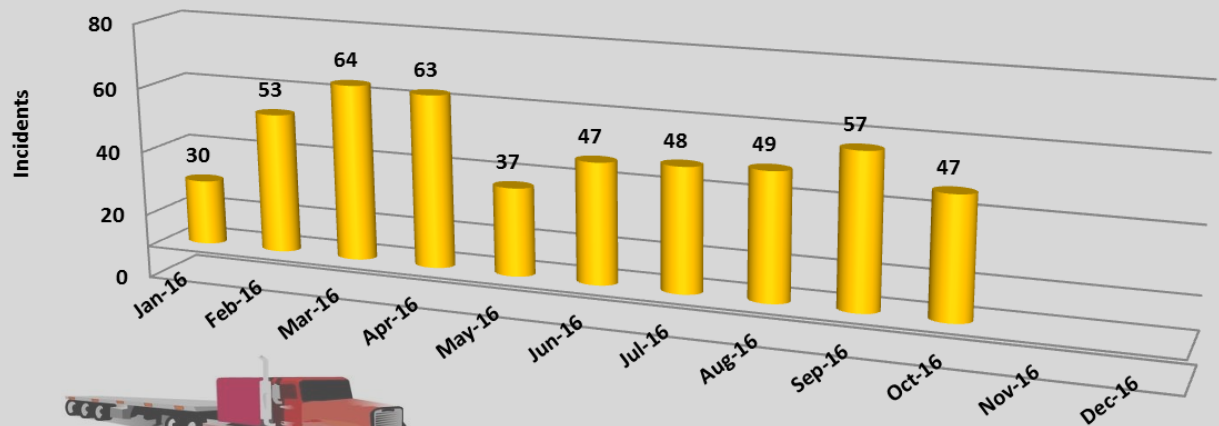
2015	I-44	I-55	I-64	I-70	I-170	I-255 / I-270	Route 364	Route 370	Other	Total
Jan	7	4	4	12	0	9	0	1	0	37
Feb	23	2	6	13	2	16	1	0	0	63
Mar	13	6	11	14	0	3	0	1	0	48
Apr	7	3	7	18	1	2	1	0	0	39
May	5	2	9	14	0	5	1	1	0	37
Jun	10	3	7	15	0	12	0	1	0	48
Jul	6	6	8	8	1	11	0	0	3	43
Aug	10	2	3	11	0	9	0	0	3	38
Sep	12	9	5	18	2	10	0	1	2	59
Oct	12	12	8	17	1	9	0	0	2	61
Nov	8	4	7	14	0	11	0	0	3	47
Dec	5	10	9	19	2	6	0	0	5	56
Totals	118	63	84	173	9	103	3	5	18	576

*Other Routes are MoDOT maintained non-freeway routes and were not included on system until July 2015



INCIDENT MANAGEMENT

2016 Number of Incidents and Time to Clear Lanes



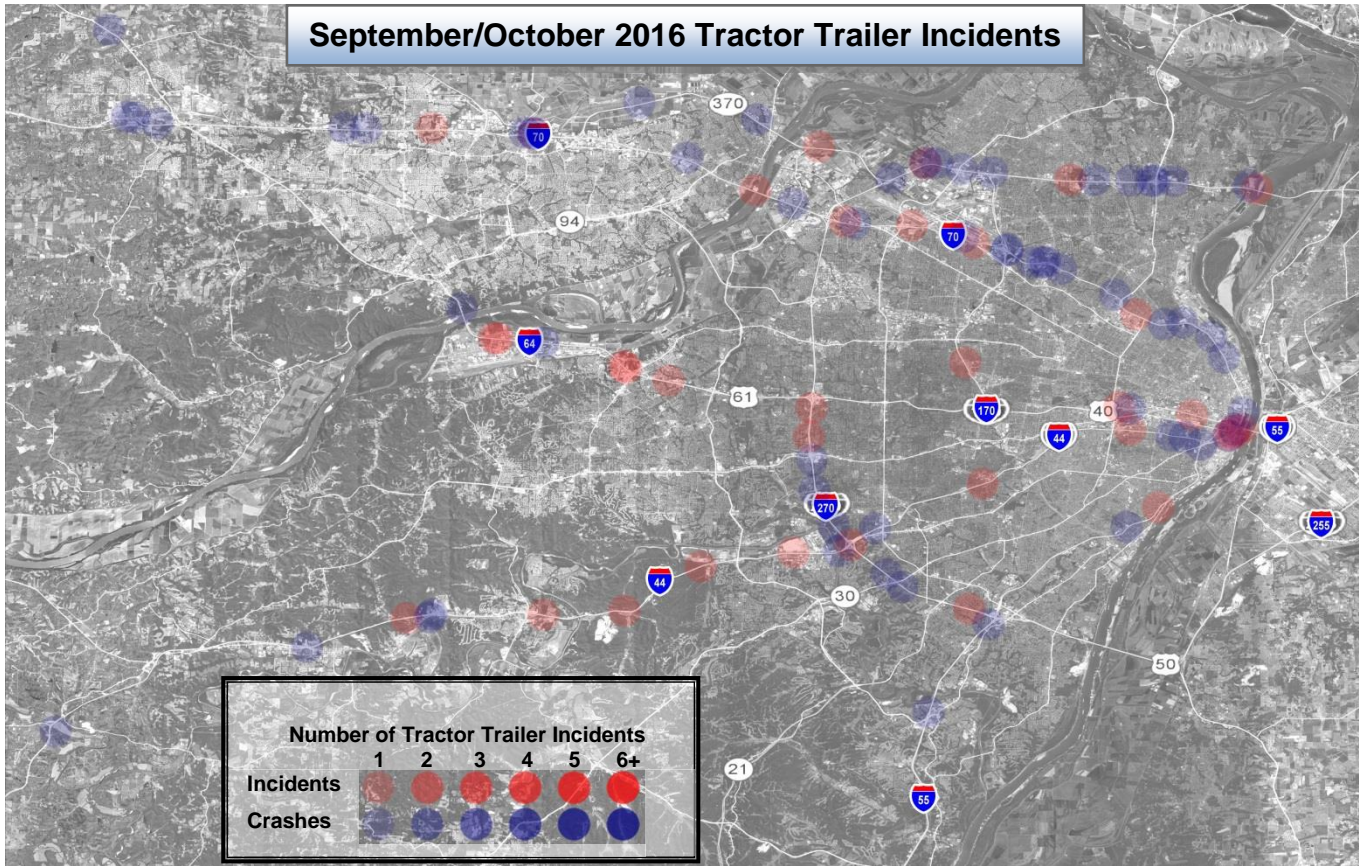
	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
Incidents	30	53	64	63	37	47	48	49	57	47		

2016	I-44	I-55	I-64	I-70	I-170	I-255 / I-270	Route 364	Route 370	Other	Total
Jan	7	3	4	5	1	10	0	0	0	30
Feb	10	6	10	17	2	5	0	1	2	53
Mar	15	10	6	22	2	8	0	0	1	64
Apr	17	7	7	16	1	11	0	2	2	63
May	7	4	5	9	0	8	0	2	2	37
Jun	14	3	8	12	0	7	0	1	2	47
Jul	16	3	5	13	0	6	0	2	3	48
Aug	18	3	5	9	2	11	0	0	1	49
Sep	14	3	5	18	1	14	0	0	2	57
Oct	10	4	5	12	0	11	0	3	2	47
Nov										0
Dec										0
Totals	128	46	60	133	9	91	0	11	17	495

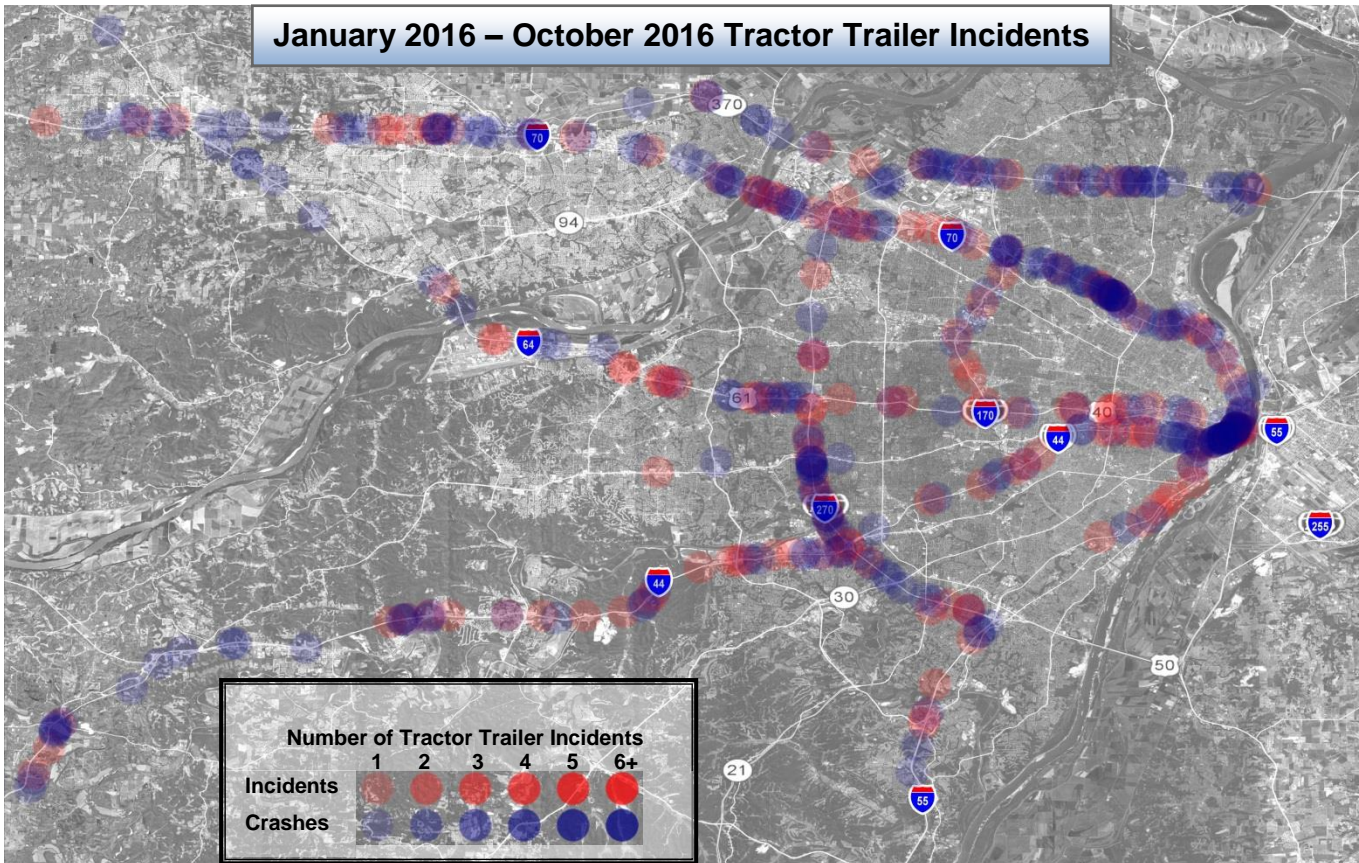
*Other Routes are MoDOT maintained non-freeway routes and were not included on system until July 2015

INCIDENT MANAGEMENT

September/October 2016 Tractor Trailer Incidents



January 2016 – October 2016 Tractor Trailer Incidents



Major Impact Traffic Incidents and Mitigation

9/1/2016 (Thursday)

- **Time:** 11:17 am – 2:40 pm
- **Location:** St. Louis County – Northbound/Southbound I-270 between Olive Boulevard and Page Avenue
- **Event:** Gas Leak
- **Estimated Initial Impact:** Non-Rush Hour: 8 of 8 travel lanes affected equals (=) 100%
- **Incident Details:** Both northbound and southbound lanes of the interstate were closed at the request of local law enforcement (as a precautionary measure) due to a gas leak inside a vacant residence. It was estimated 34,000 lbs. of natural gas had leaked inside the house which was located just west of I-270.
- **Action:** St. Louis County and Creve Coeur Police along with Creve Coeur Fire Department, and Laclede Gas responded. Ten Emergency Response units assisted with the closure of the interstate. TMC entered the closure into TMS to alert the public. All available DMS boards were activated and giving route specific alternates. Westbound boards on I-70 and I-64 were activated going back to St. Louis City and eastbound boards going to Wentzville. EOC, Motor Carriers, Community Relations, and MoDOT Incident Management Coordinator were all notified of the closure.

Northbound traffic was diverted at Olive Boulevard to Route 141 and queued approximately 2 miles back to I-64. Southbound was diverted at Page Avenue to Route 141 and queued almost 3 miles back to McKelvey Road. Signals were placed in free operations at Eastbound/Westbound Page Avenue at Route 141. Westbound was set to max recall on phase 4 for the westbound exit ramp. Phase 4 max time was increased from 40 seconds to 70 seconds. The max time was increased from 70 seconds to 90 seconds at 2:05 pm as backups continued. Signals on Olive beginning at I-270 and ending at Route 141 were placed into manual operations and the coordinated diversion programming was initiated, but determined not to be as effective as the normal PM Peak timing plan.

Eastbound traffic to the west of I-270 had no roadway notification of the closure. This resulted in heavy delays on Eastbound Olive and heavy left turns from Eastbound Olive to Northbound New Ballas Road. TMC Floor Staff was able to display a message using a CMS board in place for construction at the intersection of Olive and Fee Fee to alert motorists. This helped to divert Eastbound Olive traffic prior to the I-270 interchange and reduced the left turn volumes at New Ballas Road. There were additional delays on Westbound Olive at Northbound Route 141 due to an ongoing maintenance project at the time of the closure. Northbound Route 141 was reduced to one lane just north of Route 141 for the majority of the closure. The signals on Route 141 at St. Luke's and Conway Road were placed into manual operations and the coordinated program was changed.

Traffic began to clear and the signal timing was returned to normal operations at all locations by 2:55 pm. The signal timing modifications provided relief; however, they could have been more effective without the additional delays caused by the incident on I-64 at Mason Road and the construction on Northbound Route 141 north of Olive I-270 traffic returned to normal within 15 minutes of the interstate being reopened.


- **Event Duration:** 3 hours 23 minutes



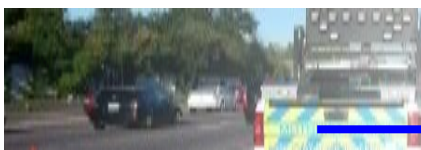
INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

Northbound I-270 at Olive Boulevard 	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
Closed Hours/Minutes	2:34	2:34	2:34	2:34	2:34	2:34

Southbound I-270 at Page Avenue 	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
Closed Hours/Minutes	2:34	2:34	2:34	2:34	2:34	2:34






INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

9/4/2016 (Sunday)

- **Time:** 5:54 pm – 7:52 pm *** Fatality ***
- **Location:** St. Charles County – Westbound I-70 past Route K/M
- **Event:** Vehicle Crash
- **Estimated Initial Impact:** Non-Rush Hour: 3 of 3 travel lanes affected equals (=) 100%
- **Incident Details:** A pedestrian walked into the path of a tractor trailer and was struck. A secondary accident was reported on Eastbound I-70 at Bryan Road.
- **Action:** O'Fallon Police and Fire responded along with the St. Charles County Ambulance District. The scene was turned over to the MSHP who completed an accident reconstruction. Emergency Response personnel provided traffic control and assisted with diverting traffic off onto Route K. The TMC activated DMS boards (updating as necessary) and the closure was entered into TMS to alert the public. The EOC, AE, Motor Carriers, Community Relations, and MoDOT Incident Management Coordinator were all notified. Traffic queued for approximately 2 miles backing to just west of Route 79 and returned to normal within 10 minutes of all lanes being reopened.
- **Event Duration:** 2 hours 7 minutes


Westbound I-70 past Route K/M 	Left Shoulder	Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes	1:58	1:58	1:58	1:48	1:48



Major Impact Traffic Incidents and Mitigation


9/7/2016 (Wednesday)

- **Time:** 12:15 pm – 3:25 pm
- **Location:** St. Louis County – Southbound I-170 entrance ramp from Westbound I-270
- **Event:** Single Vehicle Crash
- **Estimated Initial Impact:** Non-Rush Hour: 1 of 1 travel lanes affected equals (=) 100%
- **Incident Details:** Single vehicle crash involving 500 feet of guardrail damage closed ramp.
- **Action:** Hazelwood Police and Fire responded. An Emergency Response unit and supervisor responded to assist with traffic control. TMC activated all available DMS boards to alert drivers of the lane closures. EOC and Motor Carriers notified. Traffic queued approximately 2 miles.
- **Event Duration:** 3 hours 10 minutes

Southbound I-170 Entrance ramp from Westbound I-270 	Left Exit Shoulder	Exit Lane 1	Right Exit Shoulder
Closed Hours/Minutes	3:10	3:10	3:10

9/8/2016 (Thursday)

- **Time:** 2:02 pm – 4:11 pm
- **Location:** St. Charles County – Eastbound I-70 before Mid Rivers Mall Drive
- **Event:** Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 3 of 5 travel lanes affected equals (=) 60%
- **Incident Details:** A motor vehicle crash involving a tractor trailer and a passenger vehicle.
- **Action:** St. Peters Police, Central County Fire Department, and St. Charles County Ambulance District responded. An Emergency Response unit and supervisor responded to assist with traffic control. The event duration was due to the tractor trailer leaking an unknown type fluid which had to be soaked up with peat moss. The TMC activated all available DMS boards to alert drivers of the lane closures. Traffic queued approximately 3.5 miles and returned to normal within 18 minutes of all lanes being reopened.
- **Event Duration:** 2 hours 9 minutes

Eastbound I-70 before Mid Rivers Mall Drive 	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Right Shoulder
Closed Hours/Minutes	1:50	1:50	1:44	1:44	0:00	0:00	0:00




INCIDENT MANAGEMENT

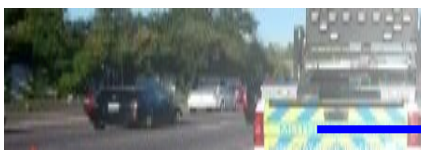
Major Impact Traffic Incidents and Mitigation

9/11/2016 (Sunday)

- **Time:** 7:25 pm – 9:37 pm
- **Location:** St. Charles County – Eastbound I-70 at Route T/W
- **Event:** Single Vehicle Crash
- **Estimated Initial Impact:** Non-Rush Hour: 1 of 2 travel lanes affected equals (=) 50%
- **Incident Details:** Single vehicle crash involving a commercial utility truck pulling two trailers that overturned. The accident resulted in one subject being transported.
- **Action:** Foristell Police, MSHP, Central County Fire and St. Charles County Ambulance District responded. Emergency Response personnel assisted with traffic control while the vehicle was up-righted and towed from the scene. The TMC contacted KC Scout and had them activate the closest available DMS boards to alert the public. The EOC, AE, Motor Carriers, Community Relations, and MoDOT Incident Management Coordinator were all notified. Traffic queued between 2-3 miles, but quickly cleared once the lane was reopened.
- **Event Duration:** 2 hours 12 minutes

Eastbound I-70 at Route T/W 	Left Shoulder	Lane 1	Lane 2	Right Shoulder
Closed Hours/Minutes	0:00	0:00	2:08	2:12






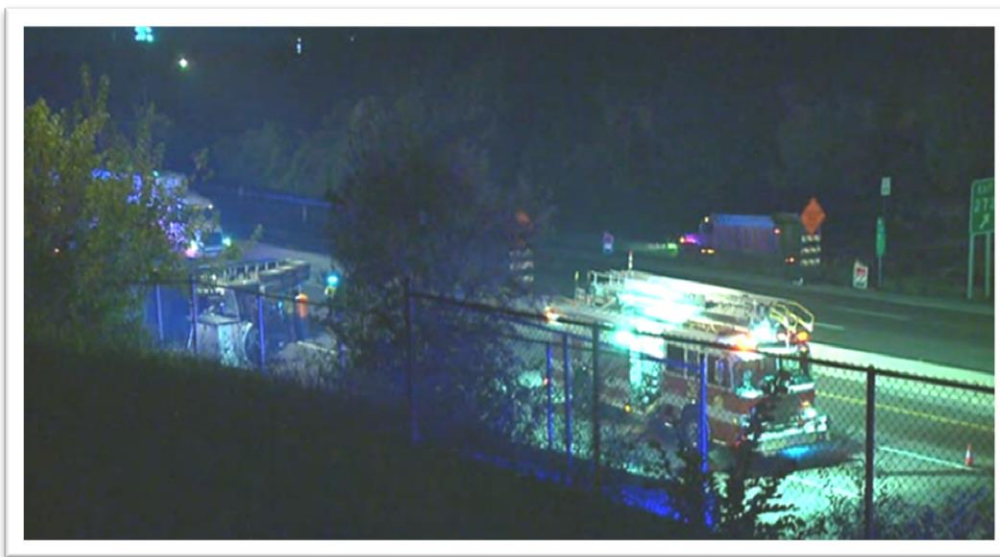
INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

9/14/2016 (Wednesday)

- **Time:** 2:32 am – 6:21 am *** Fatality ***
- **Location:** St. Louis County – Eastbound I-44 before Bowles Avenue
- **Event:** Single Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 2 of 3 travel lanes affected equals (=) 66%
- **Incident Details:** A dump truck traveling eastbound on I-44 veered off the right side of the roadway where it struck an embankment. The vehicle then returned to the roadway where it overturned on to the passenger side causing the driver to be ejected. The driver was pronounced on scene.
- **Action:** MSHP, St. Louis County Police, Fenton Fire and EMS responded. Emergency Response personnel assisted with traffic control, while MSHP completed a reconstruction. The TMC activated all available DMS boards to alert drivers. The EOC, AE, Motor Carriers, Community Relations, and MoDOT Incident Management Coordinator were all notified. At the peak of the incident, traffic queued approximately 5 miles back to Antire Road. Traffic began to ease when lane 2 was reopened. The queue was down to about one mile when the incident cleared and returned to normal within 8 minutes.
- **Event Duration:** 3 hours 49 minutes

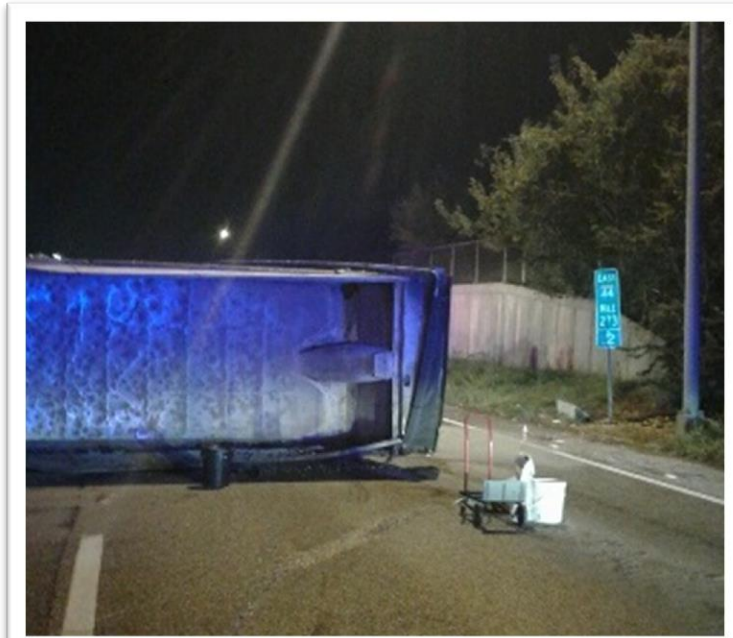
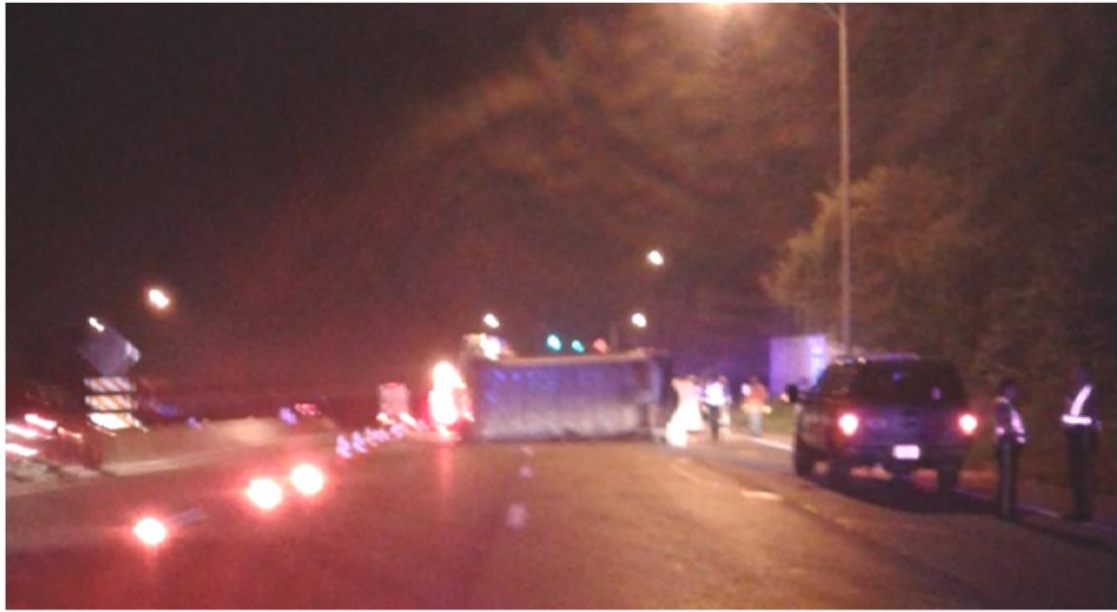
Eastbound I-44 before Bowles Avenue 	Left Shoulder	Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes	0:00	0:00	3:38	3:49	3:49

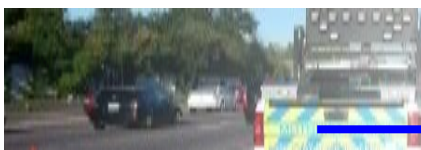




INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation






INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

9/28/2016 (Wednesday)

- **Time:** 4:03 pm – 5:35 pm
- **Location:** St. Louis City – Eastbound I-44 past Park Avenue
- **Event:** Multi-Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 3 of 4 travel lanes affected equals (=) 75%
- **Incident Details:** Three tractor trailers involved in a chain reaction crash. The driver in the third tractor trailer (at the rear of the collision) had to be extricated from the vehicle and was transported.
- **Action:** MSHP, St. Louis City Police, Fire, EMS, and City Tow responded. Three Emergency Response personnel assisted with traffic control. The TMC activated all available DMS boards to alert drivers. The EOC, AE, Motor Carriers, Community Relations, and MoDOT Incident Management Coordinator were all notified. Traffic initially backed up to Gravois. At the peak of the incident, traffic queued back approximately 3.5 miles onto I-44 and 3.5 miles on I -55.
- **Event Duration:** 1 hours 32 minutes

Eastbound I-44 past Park Ave 	Left Shoulder	Lane 1	Lane 2	Lane 3	Exit Lane 1	Right Shoulder
Closed Hours/Minutes	0:16	0:16	1:32	1:32	1:32	1:32





INCIDENT MANAGEMENT


Major Impact Traffic Incidents and Mitigation

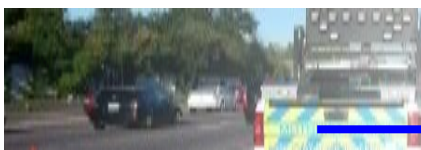


Major Impact Traffic Incidents and Mitigation

10/6/2016 (Thursday)

- **Time:** 3:02 pm – 5:00 pm
- **Location:** St. Louis City – Westbound I-70 before Goodfellow
- **Event:** Single Vehicle Accident
- **Estimated Initial Impact:** Rush Hour: 3 of 3 travel lanes affected equals (=) 100%
- **Incident Details:** Reported as an overturned pickup truck that was pulling a trailer.
- **Action:** St. Louis City Police, Fire and EMS responded. Three Emergency Response units assisted with the closure of the interstate and rerouting drivers onto Kingshighway and Union. The incident duration was extended due to a heavy tow truck needed to upright the trailer. The TMC activated all available DMS boards and entered the closure into TMS to alert the public. Traffic queued for four miles and took approximately 15 minutes to clear after all lanes were reopened.
- **Event Duration:** 1 hours 58 minutes

Westbound I-70 before Goodfellow 	Left Shoulder	Lane 1	Lane 2	Lane 3	Exit Lane 1	Right Shoulder
Closed Hours/Minutes	1:57	1:57	1:58	1:58	0:49	1:58




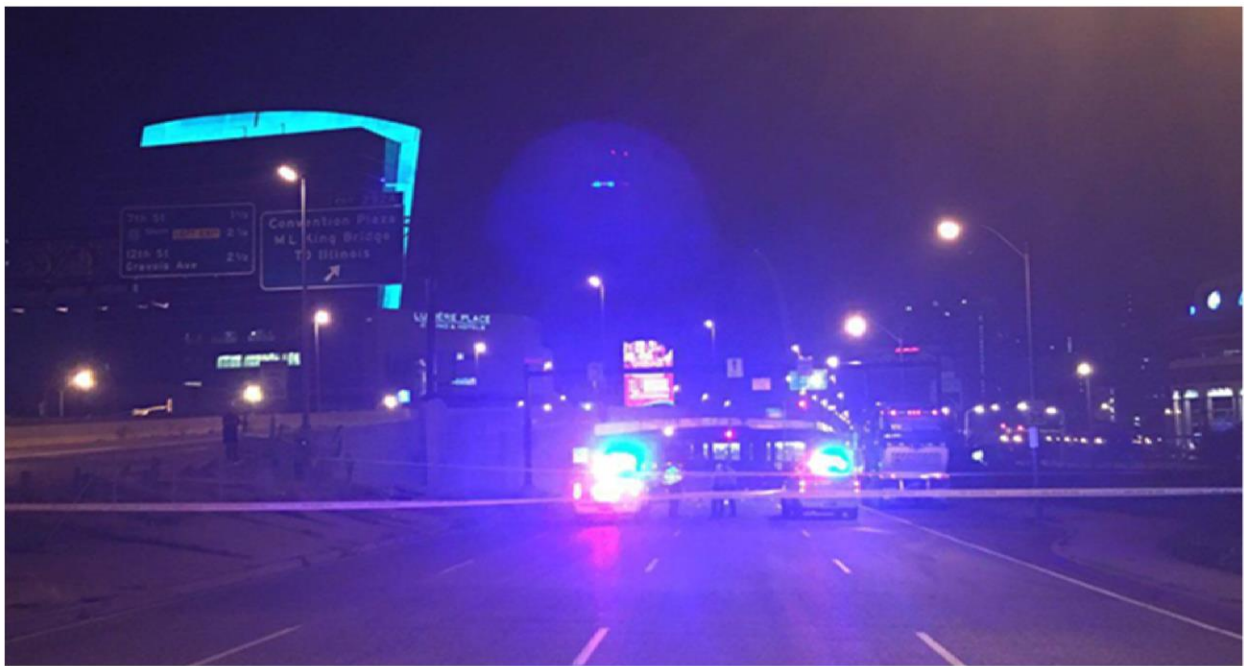
INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

10/12/2016 (Wednesday)

- **Time:** 4:02 am – 7:00 am *** Fatality ***
- **Location:** St. Louis City – Westbound I-44 past Tucker Boulevard
- **Event:** Single Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 5 of 5 travel lanes affected equals (=) 100%
- **Incident Details:** A vehicle ran off of Westbound I-44 and overturned onto North Broadway.
- **Action:** St. Louis City Police, Fire and EMS responded. The police completed an accident reconstruction. Traffic was diverted onto Tucker Boulevard. The TMC activated all available message boards and entered the closure into TMS to alert the public. EOC Motor carriers were notified. Traffic queued approximately 1-2 miles.
- **Event Duration:** 2 hours 58 minutes

Westbound I-44 past Tucker Boulevard 	Left Shoulder	Lane 1	Lane 2	Exit Lane 1	Exit Lane 2	Right Shoulder
Closed Hours/Minutes	2:58	2:58	2:58	2:58	2:58	2:58






INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

10/12/2016 (Wednesday)

- **Time:** 3:16 pm – 5:13 pm
- **Location:** St. Louis City – Southbound I-55 before Broadway
- **Event:** Multi Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 4 of 4 travel lanes affected equals (=) 100%
- **Incident Details:** A chain reaction crash involving 25 vehicles closed all lanes of Southbound I-55. At least seven people were transported to area hospitals, two in critical condition. Sixteen vehicles were towed from the scene.
- **Action:** St. Louis City Police, Fire and EMS responded. MoDOT Emergency Response units provided traffic control and assisted with diverting traffic onto Arsenal. The TMC activated all available DMS boards, entered the closure into TMS to alert the public, and also contacted IDOT to have message boards activated to notify drivers coming into Missouri from Illinois. The EOC, AE, Motor Carriers, Community Relations, and MoDOT Incident Management Coordinator were all notified. The incident cleared at 5:13 pm with a 5 mile queue across the Poplar Street Bridge. Traffic returned to normal approximately 35 minutes after all lanes were reopened.
- **Event Duration:** 1 hour 57 minutes

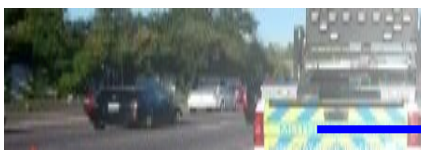
Southbound I-55 at Broadway 	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
Closed Hours/Minutes	1:31	1:31	1:31	0:41	0:44	1:57



INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation





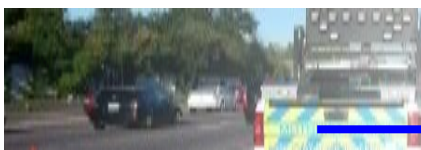
INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

10/23/2016 (Sunday)

- **Time:** 5:23 pm – 7:32 pm
- **Location:** Jefferson County – Northbound I-55 past Route A
- **Event:** Multi Vehicle Crash
- **Estimated Initial Impact:** Non-Rush Hour: 2 of 2 travel lanes affected equals (=) 100%
- **Incident Details:** Reported as a multi vehicle crash involving 2 passenger cars and a van. One person was transported with serious injuries; a second individual possibly had a heart attack causing the crash.
- **Action:** Festus Police and Fire responded along with the Jefferson County Sheriff's Office and Joachim-Plattin EMS. Traffic queued approximately 3 miles back to US 67 throughout the duration of the incident.
- **Event Duration:** 2 hours 9 minutes

Northbound I-55 past Route A 	Left Shoulder	Lane 1	Lane 2	Right Shoulder
Closed Hours/Minutes	0:40	2:06	2:09	2:09



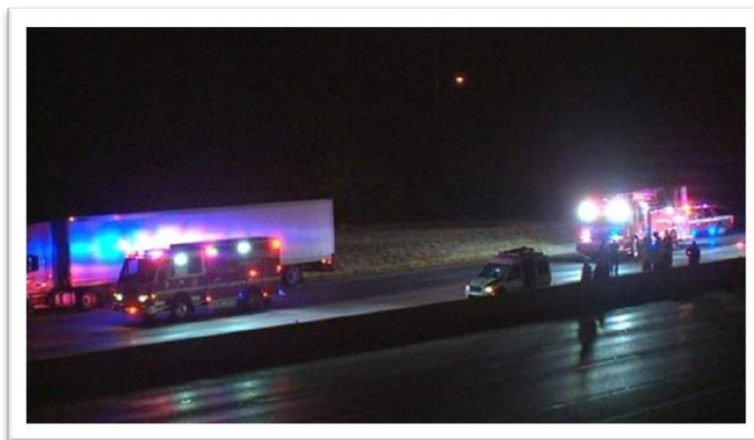
INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

10/24/2016 (Monday)

- **Time:** 3:05 am – 5:52 am *** Fatality ***
- **Location:** St. Louis County – Westbound I-70 before St. Charles Rock Road
- **Event:** Single Vehicle Crash/Pedestrian Struck
- **Estimated Initial Impact:** Non-Rush Hour: 4 of 4 travel lanes affected equals (=) 100%
- **Incident Details:** The driver of a Ford Transit van struck a pedestrian that was in the lanes of traffic on Westbound I-70. The pedestrian was pronounced on scene.
- **Action:** MSHP, Bridgeton Police, Fire and EMS responded. All lanes of the highway were closed while MSHP completed an accident reconstruction. MoDOT Emergency Response units provided traffic control and assisted with the highway closure. The incident duration was due to the reconstruction team having to respond from Franklin County. The TMC activated all available message boards and entered the closure into TMS to alert the public. The EOC, AE, Motor Carriers, Community Relations, and MoDOT Incident Management Coordinator were all notified. The traffic queue was estimated at one mile at 5:50 am (just at the start of morning rush hour). It cleared within 5 minutes of highway being reopened.
- **Event Duration:** 2 hours 47 minutes

Westbound I-70 before St. Charles Rock Rd.	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
						
Closed Hours/Minutes	2:47	2:47	2:47	2:47	2:47	2:47



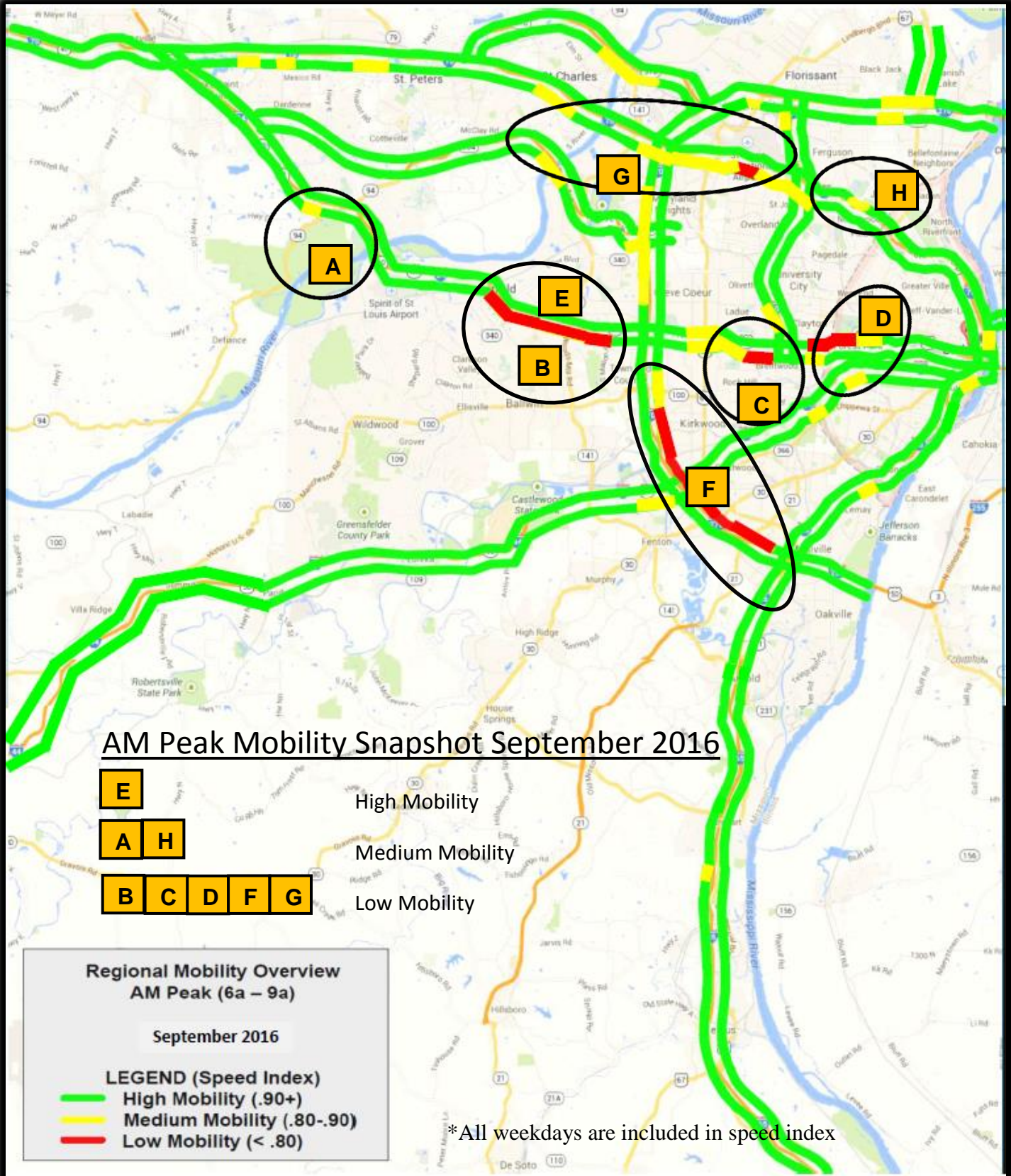


FREEWAY MANAGEMENT

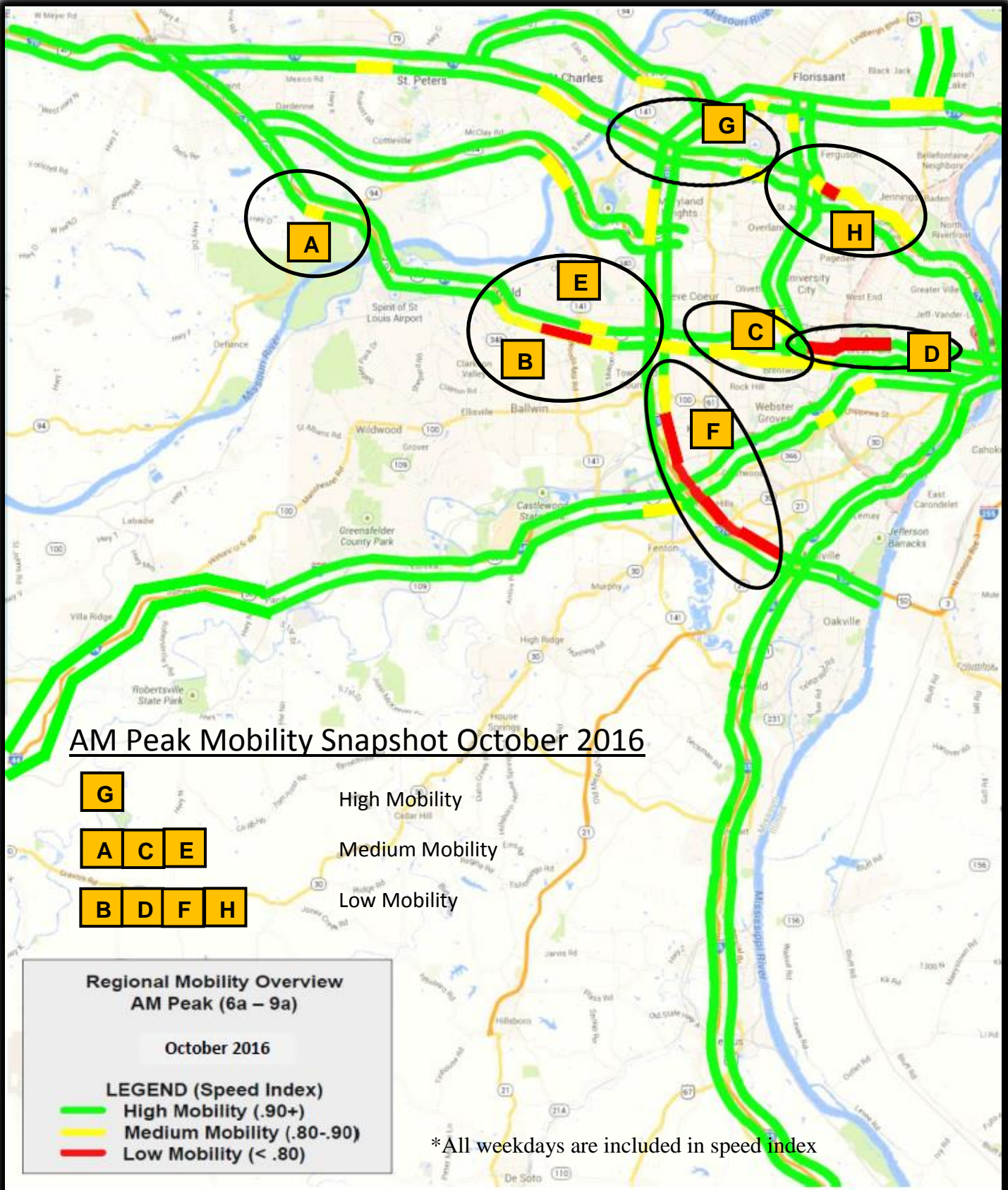
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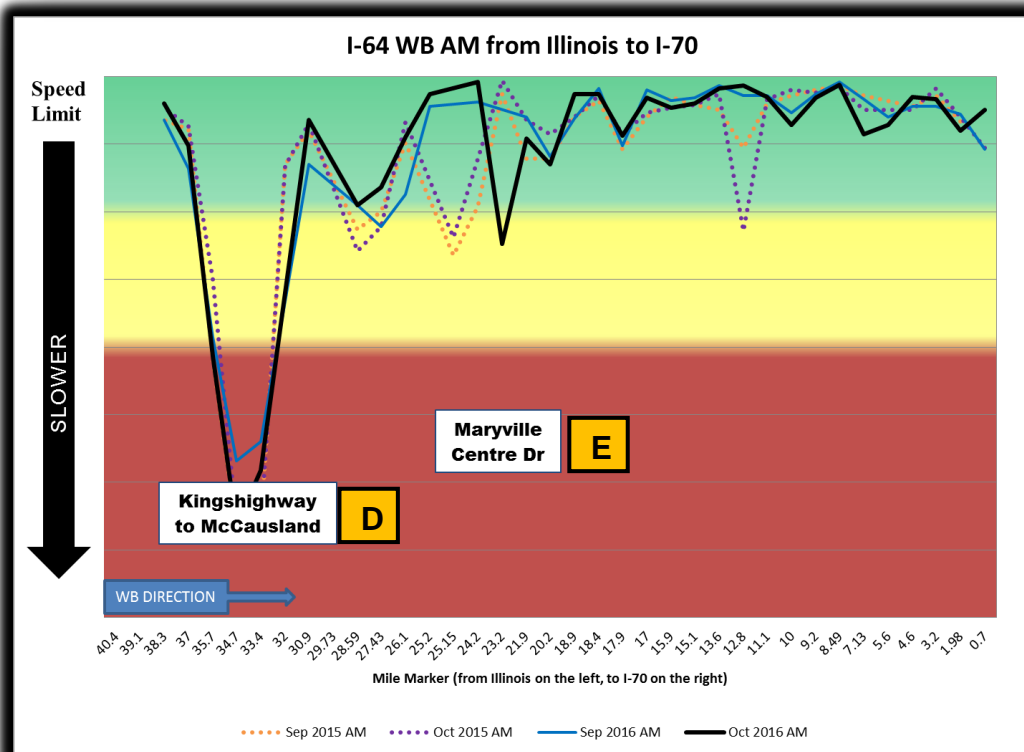
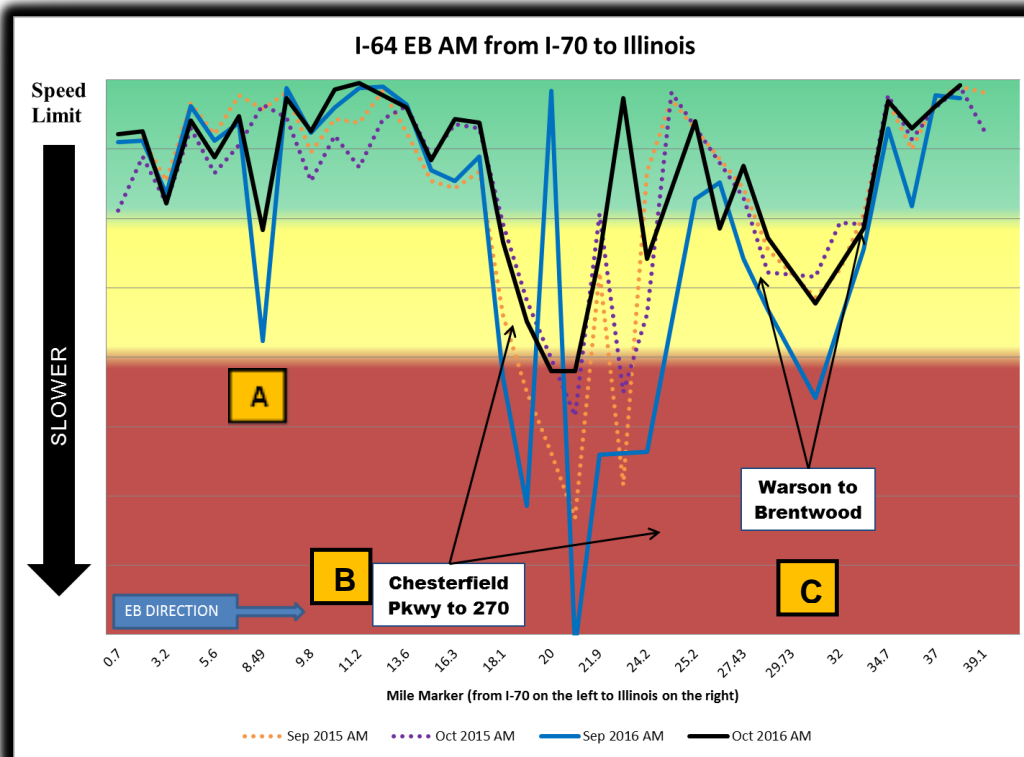
FREEWAY MANAGEMENT



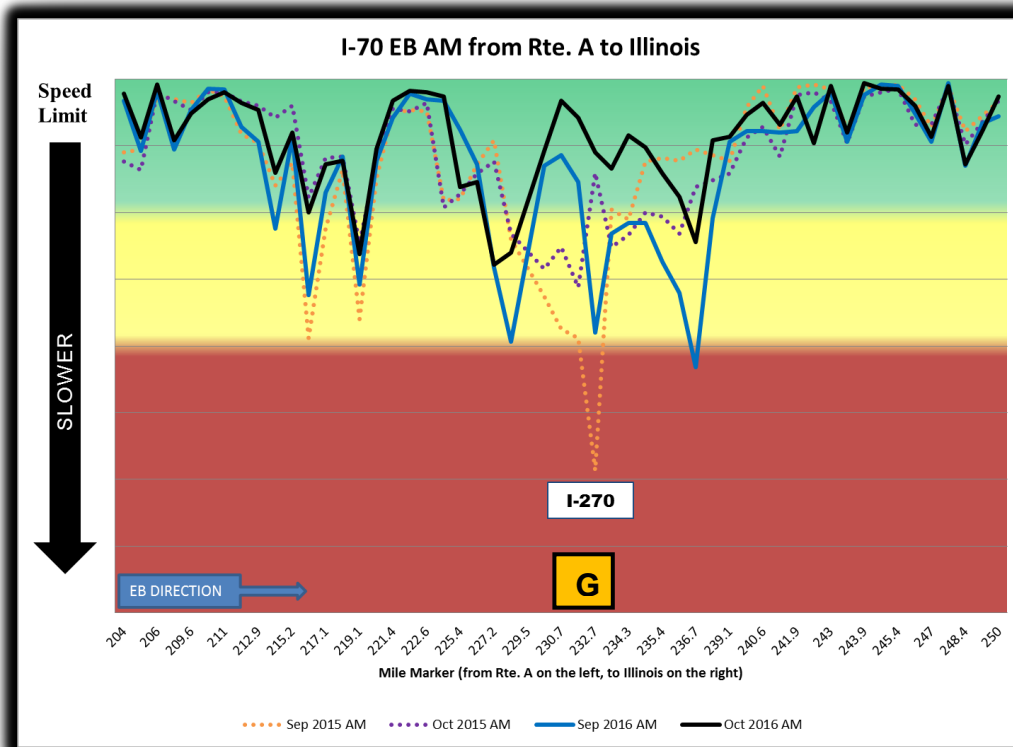
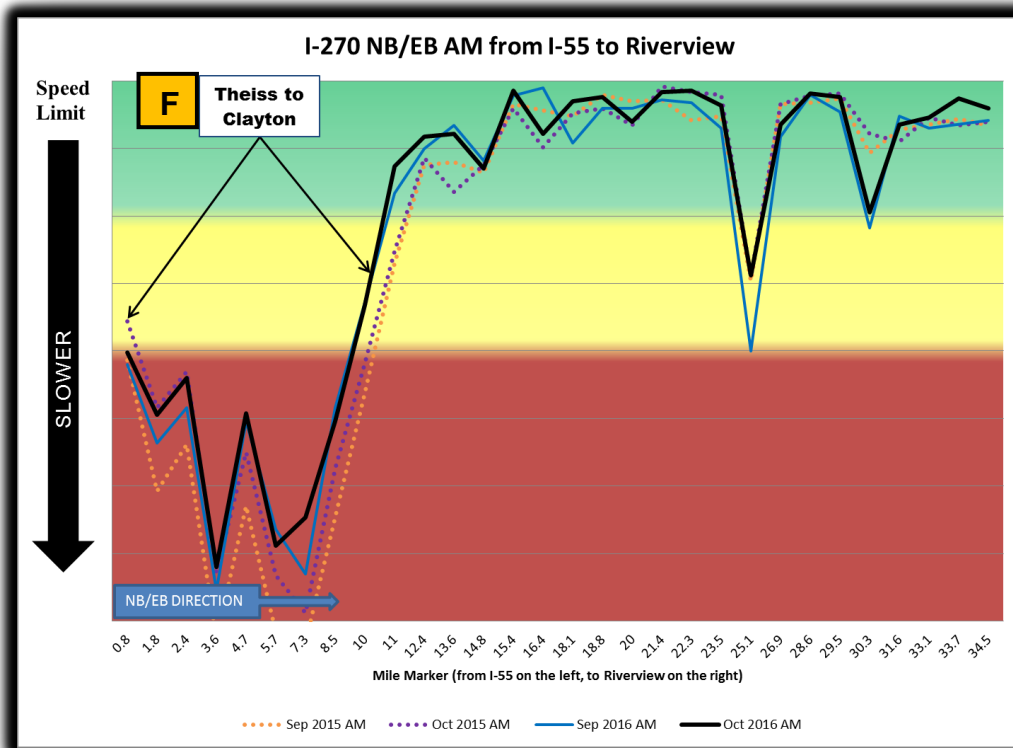
FREEWAY MANAGEMENT



FREEWAY MANAGEMENT

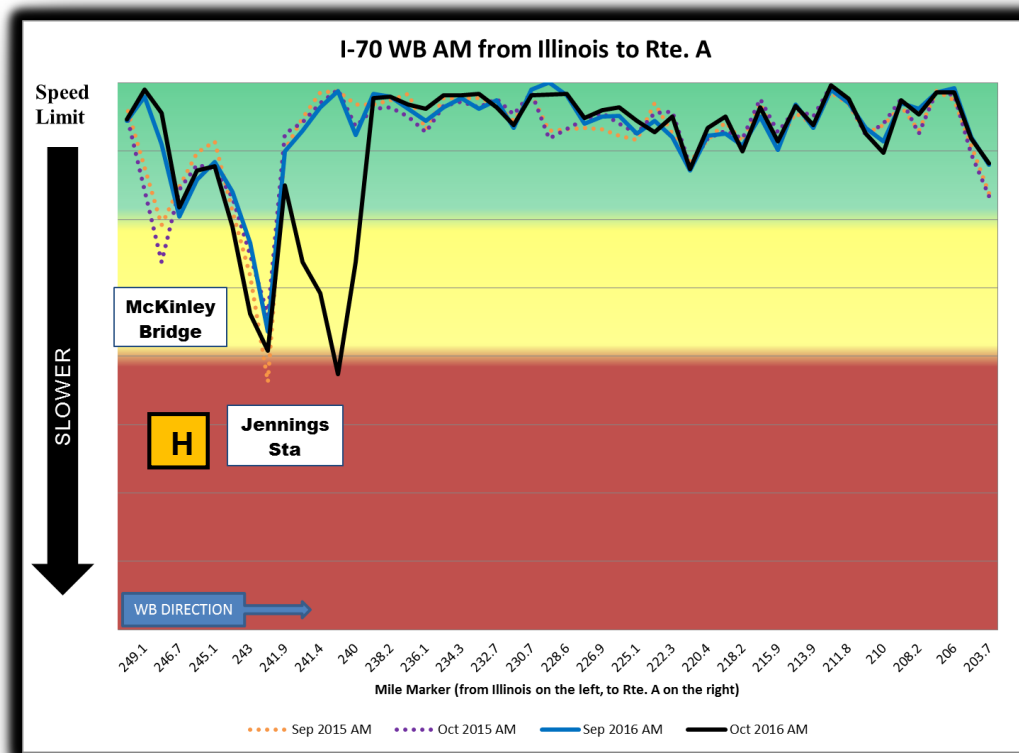


FREEWAY MANAGEMENT





FREEWAY MANAGEMENT

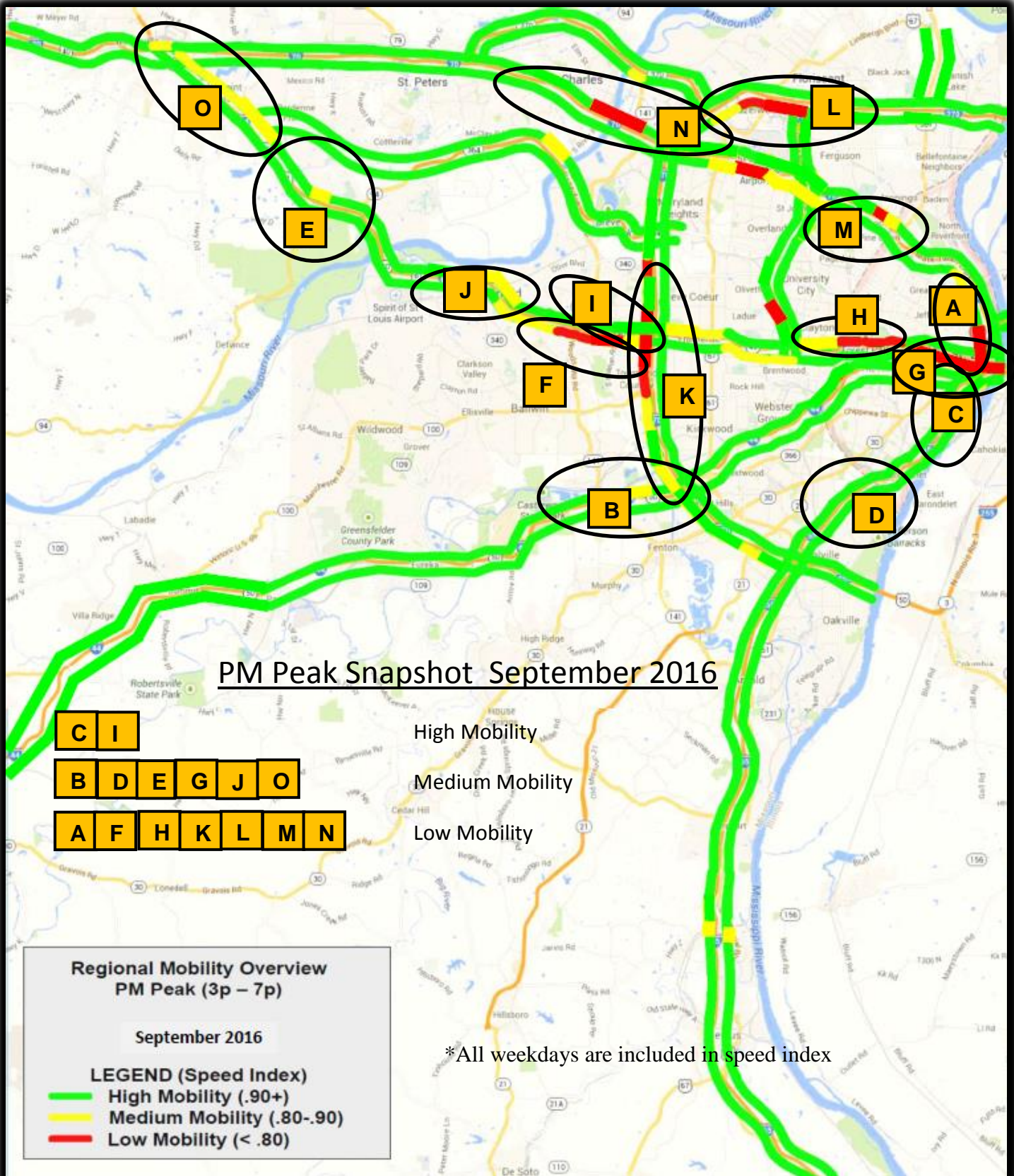




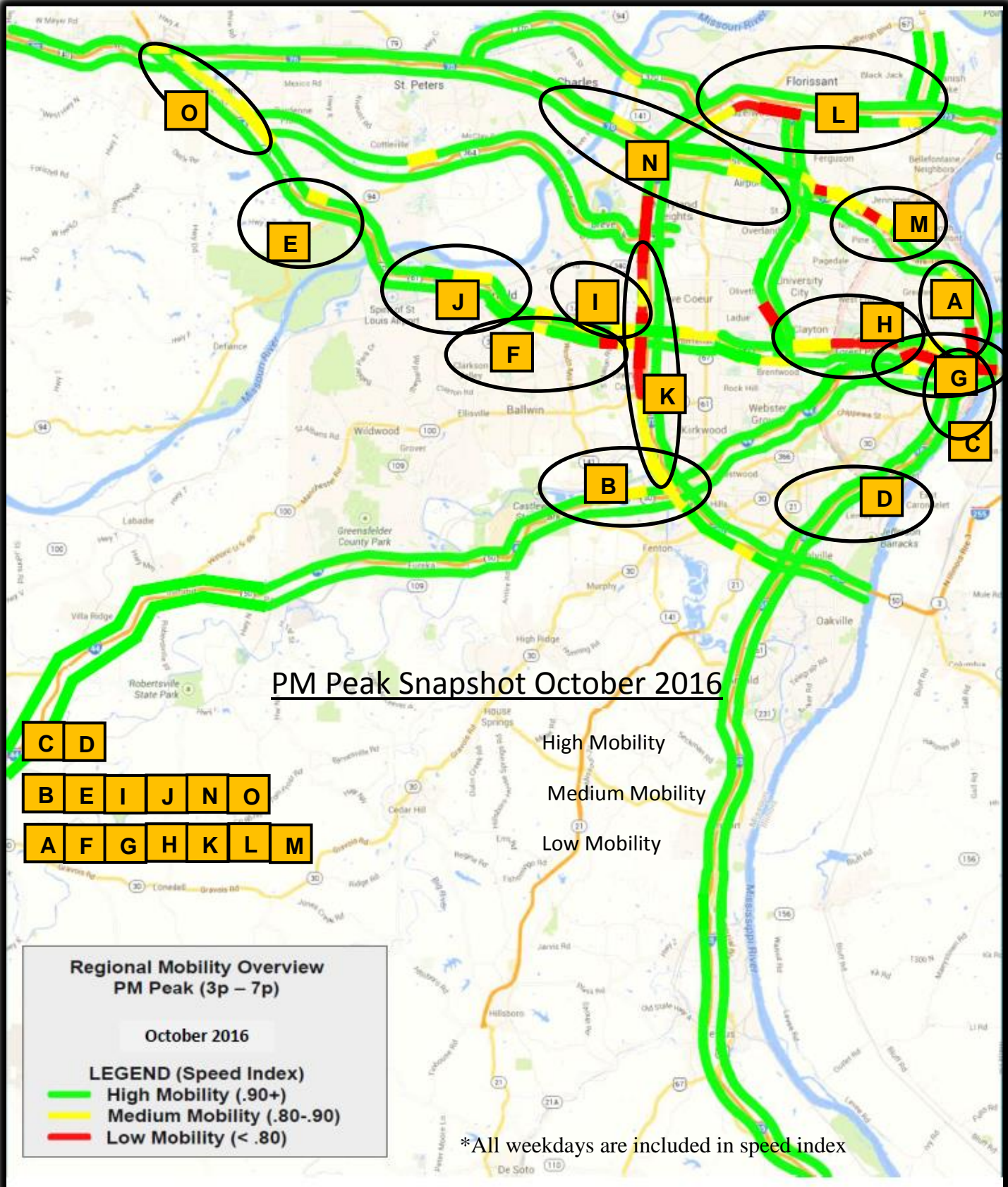
FREEWAY MANAGEMENT

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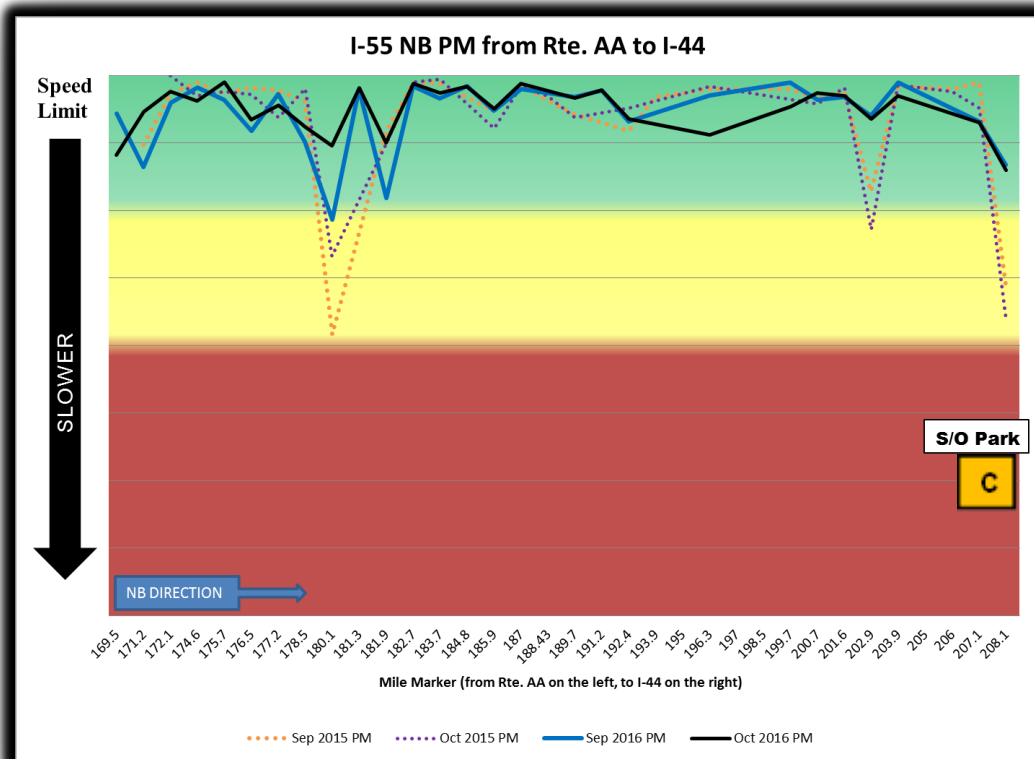
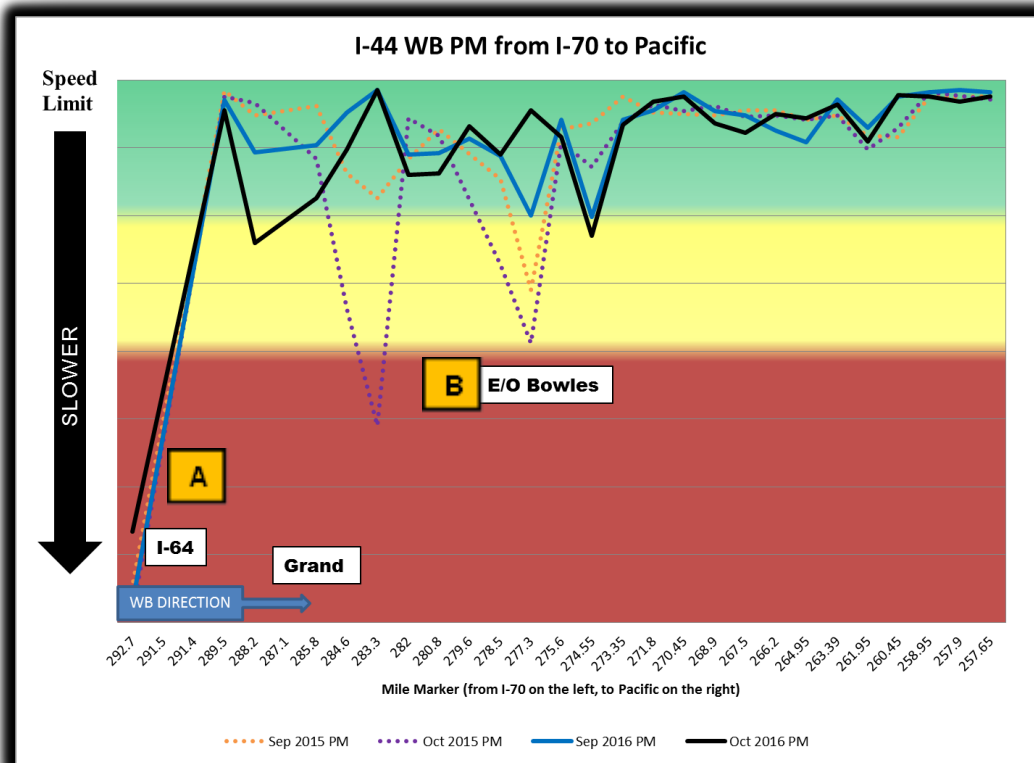
FREEWAY MANAGEMENT



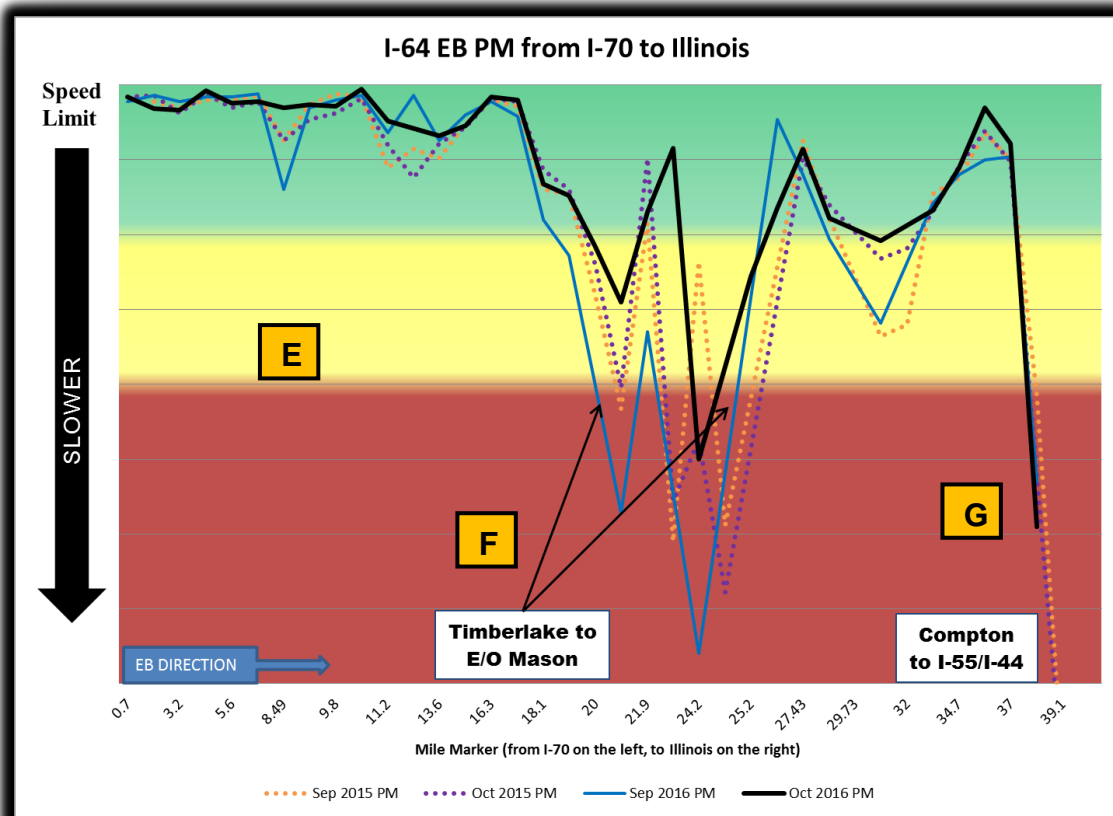
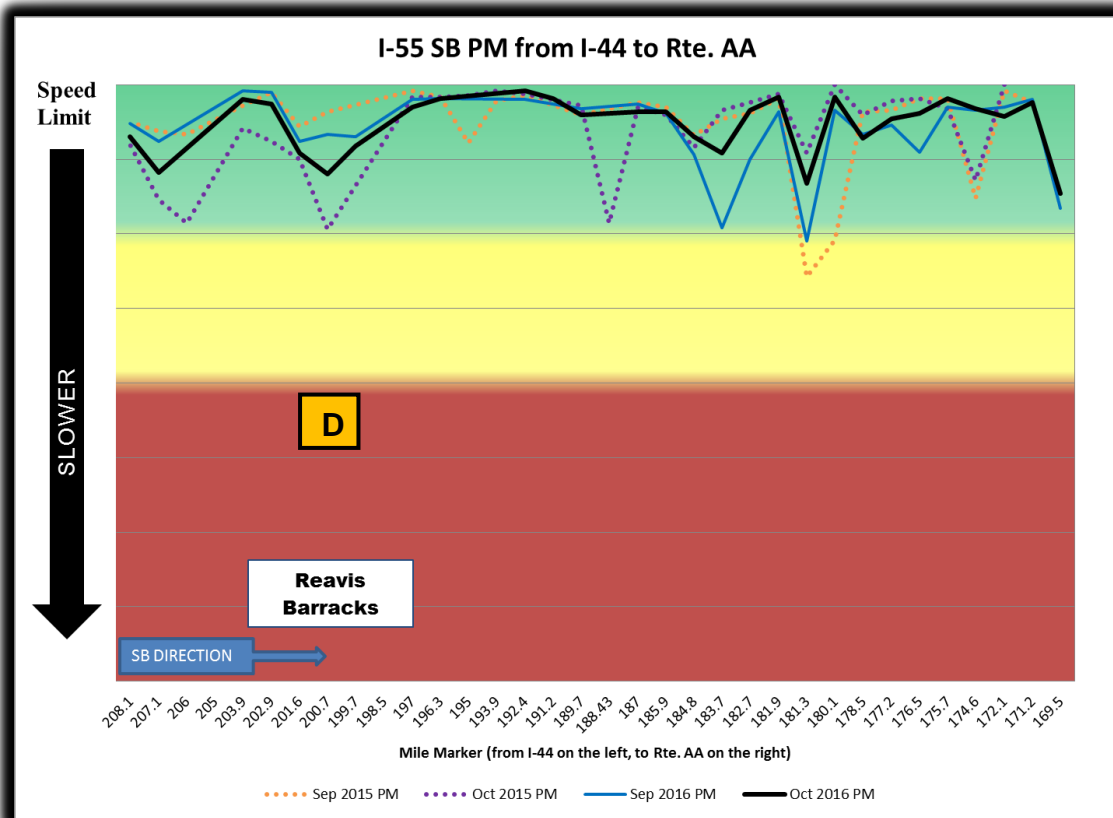
FREEWAY MANAGEMENT



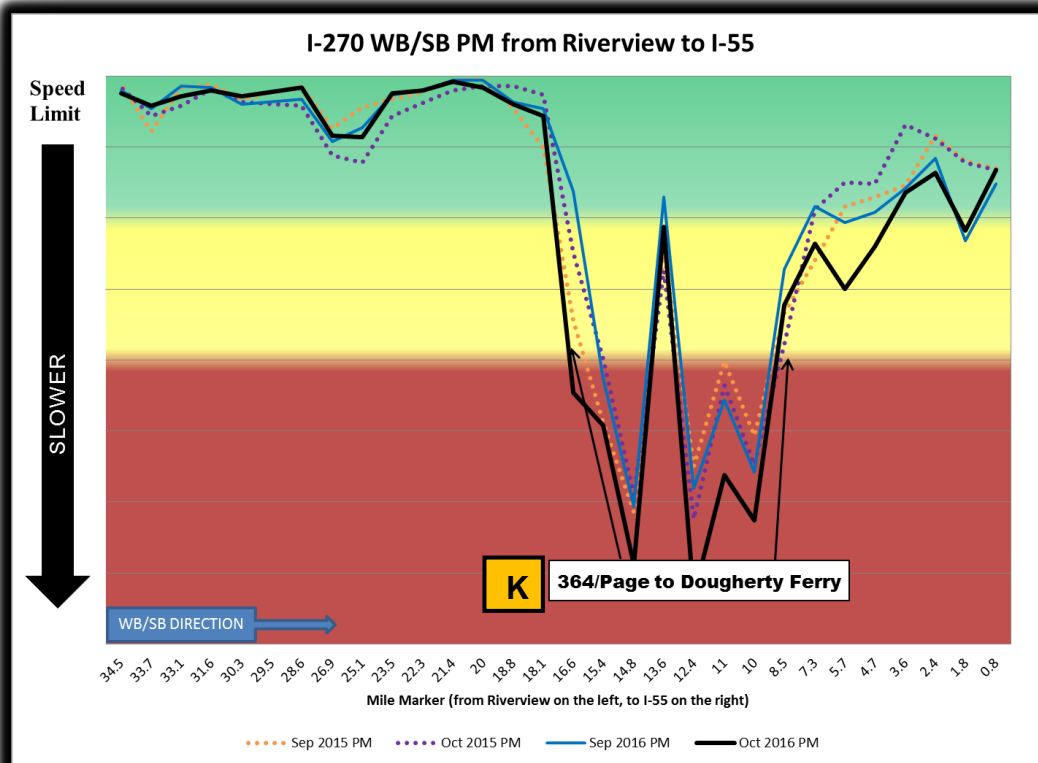
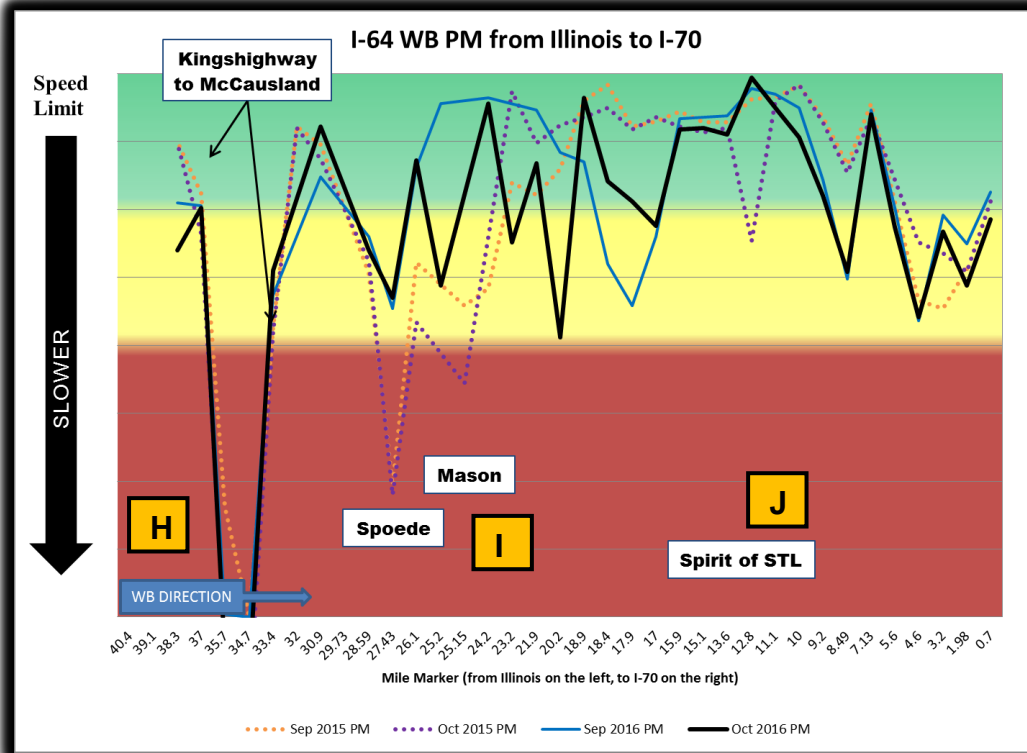
FREEWAY MANAGEMENT



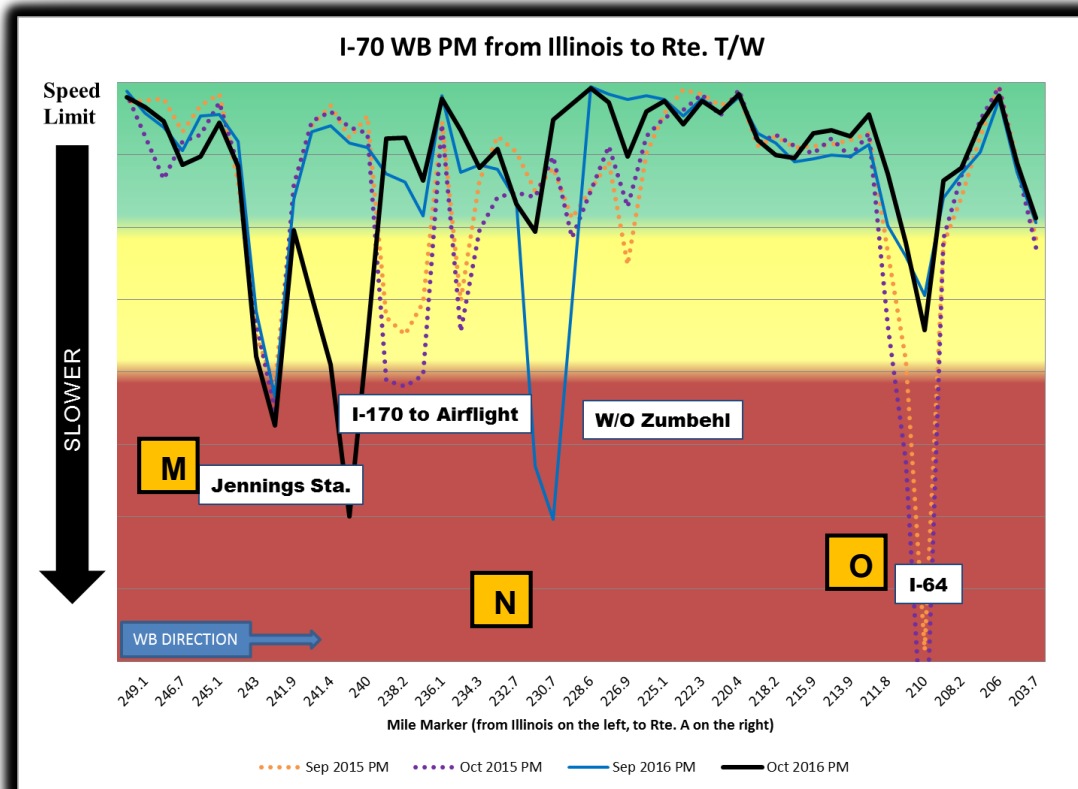
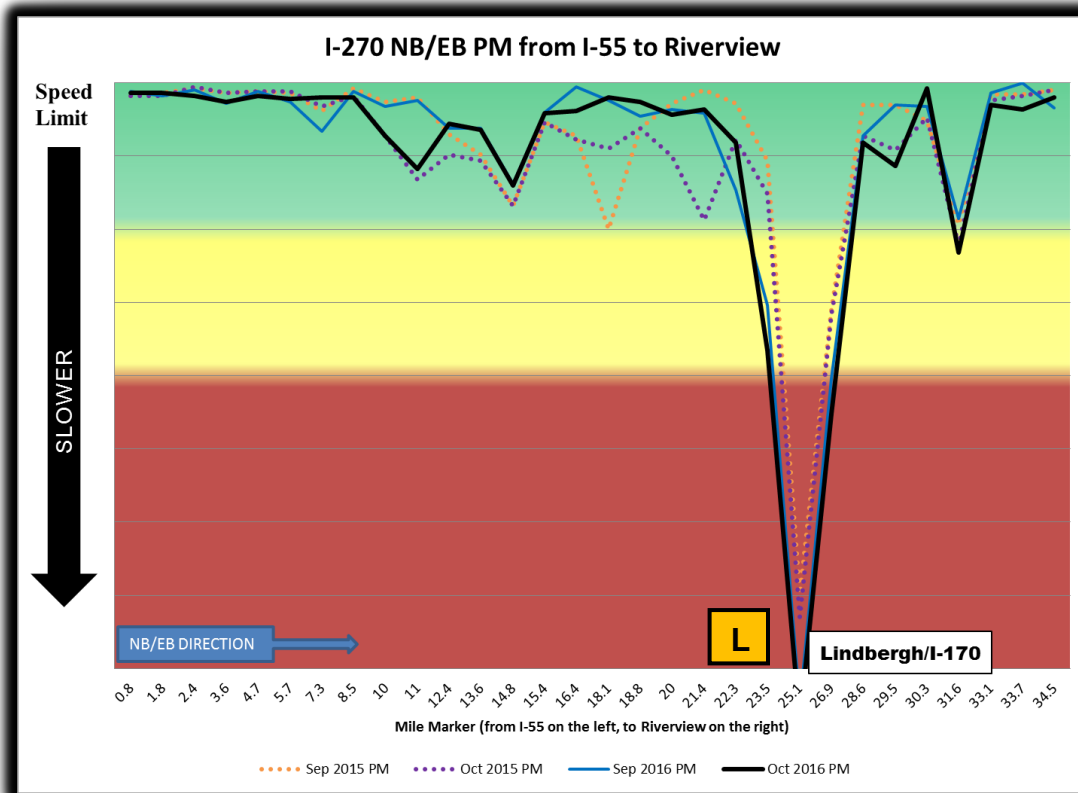
FREEWAY MANAGEMENT



FREEWAY MANAGEMENT

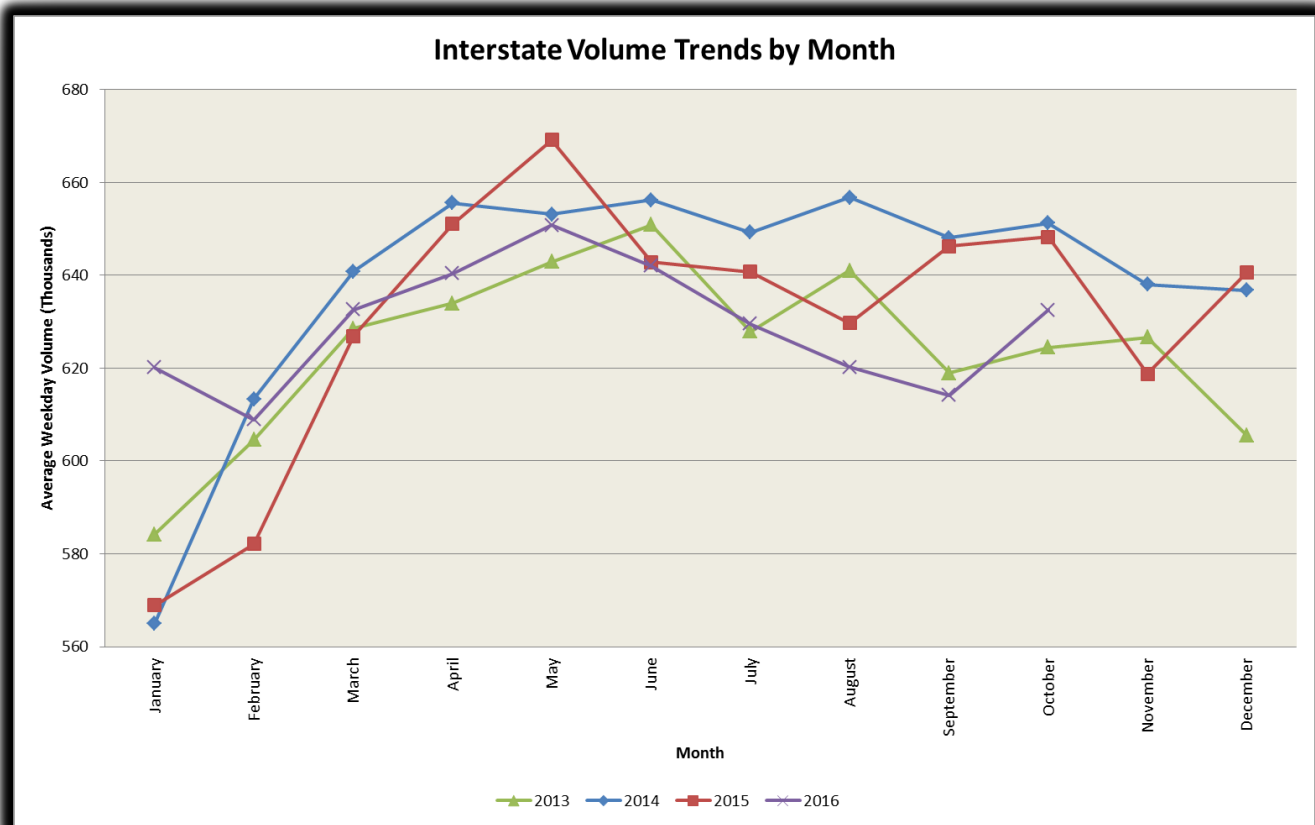


FREEWAY MANAGEMENT





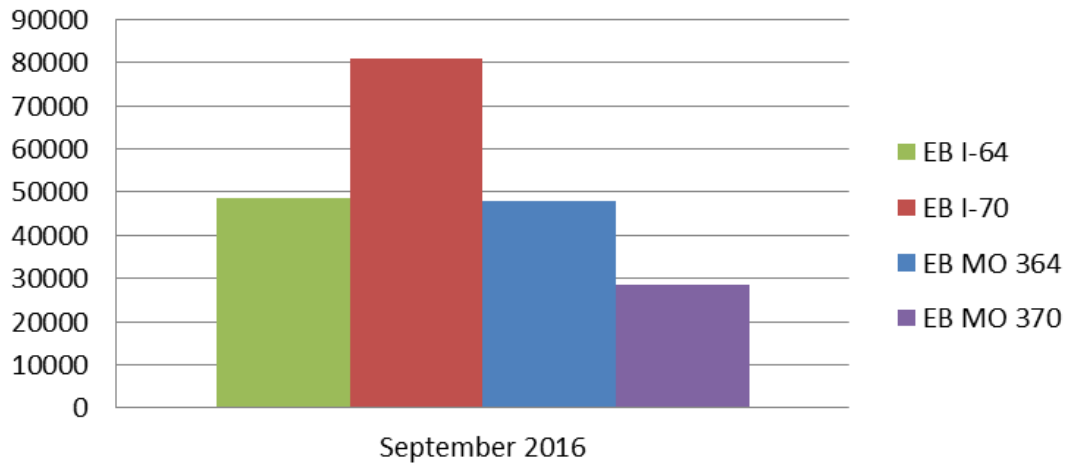
FREEWAY MANAGEMENT



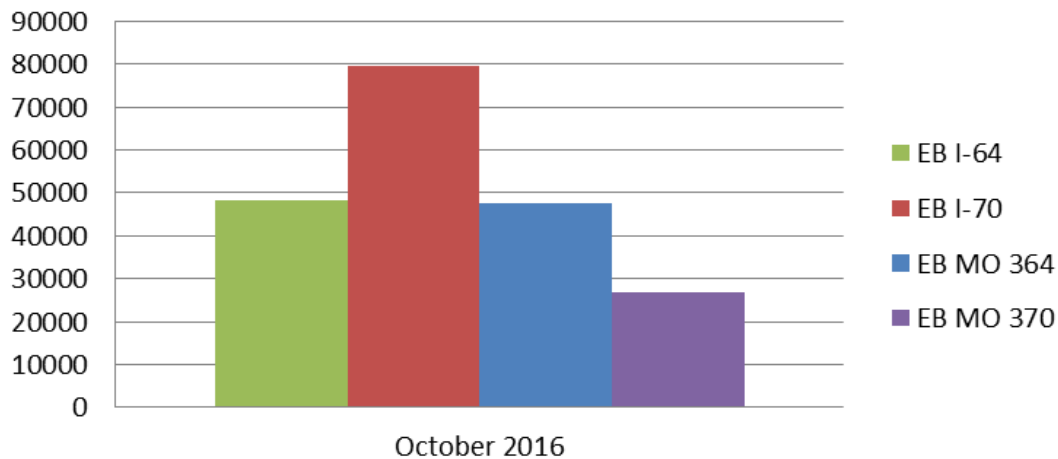


FREEWAY MANAGEMENT

Sept 2016 EB MO River Crossings Total = 206,332



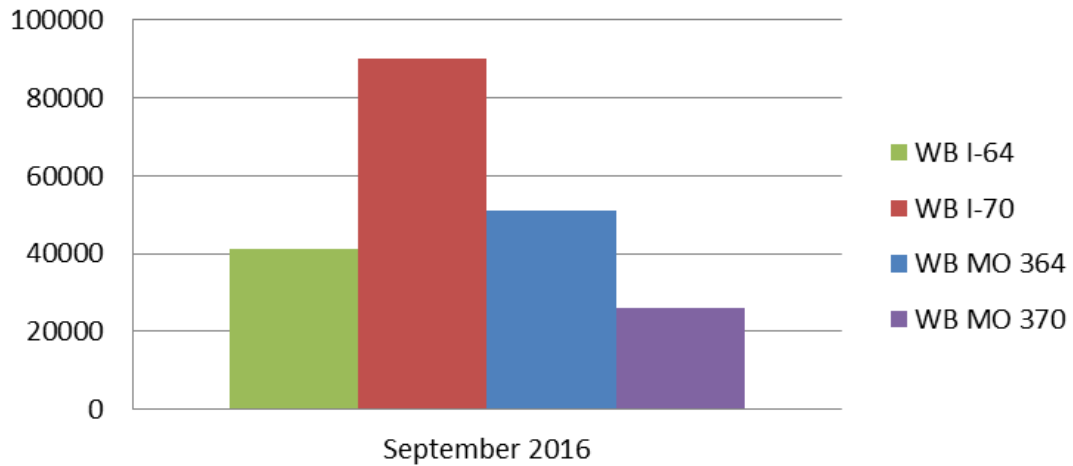
Oct 2016 EB MO River Crossings Total = 202,359



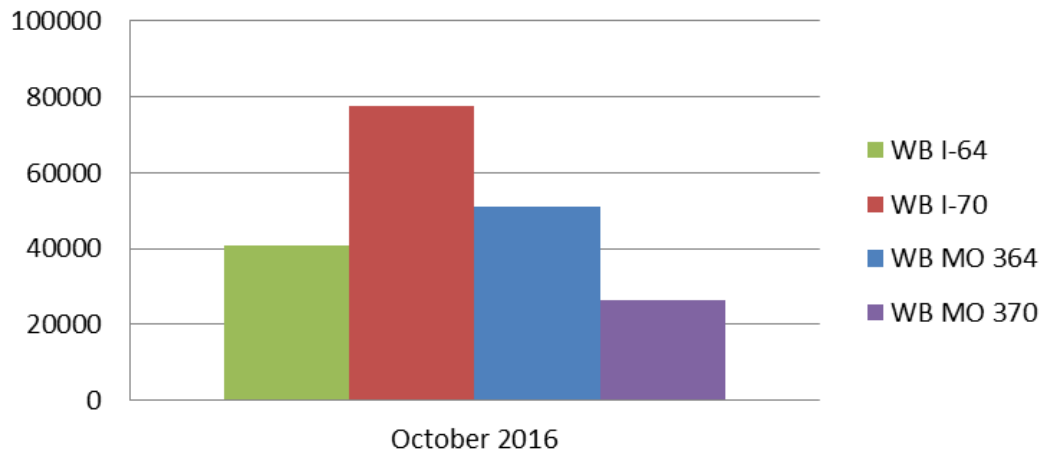


FREEWAY MANAGEMENT

Sept 2016 WB MO River Crossings Total = 208,642



Oct 2016 WB MO River Crossings Total = 195,701



No arterial data available.



Work Zones

Whenever additional travel time is reported, this additional time shall be evaluated using this chart and adequate mitigation measures should begin within the parameters of this chart. TMC and field personnel are partners in the mitigation of traffic and notification of additional travel times should trigger the appropriate response from both parties.

Chart is designed to be an additional travel time reference to establish parameters for gauging the travel impact through work zones and to provide guidance for taking mitigation actions. Travel times can be collected or reported via Blue Toad technology, field personnel, call reports, ITS, TMC cameras, etc.

Major and Moderate impacts trigger an IAR (Immediate Action Required) event. IAR means work zone user and TMC partner together to take immediate actions to reduce or eliminate distress. During an IAR event mitigation procedures can range from increased driver notification up to and including removal of work zone. Additional mitigation procedures may require involvement of administration through use of the work zone resolution ladder.

Level of Impact	Additional Travel Time Expected	Mitigation Actions
<p>Major (Red) <u>IAR Event</u></p> <p>SEVERE DISTRESS PRESENT</p> <p>Return of roadway to free flow traffic is Priority #1</p>	<p>15 minutes or above</p> <p>TMC and field personnel take all steps possible up to and including removal of lane closure to achieve free flow threshold</p>	<p>Immediate Action Required</p> <p>Supervisory mitigation assistance is required using the St. Louis District Work Zone Resolution Ladder as a tool to restore free flow traffic threshold</p>
<p>Moderate (Yellow) <u>IAR Event</u></p> <p>CAUTIONARY STAGE:</p> <p>Action required by Field/ TMC to prevent escalation to a major event</p>	<p>10 – 14 minutes</p> <p>TMC increases driver messaging. Field begins efforts to restore free flow traffic</p>	<p>TMC and field shall reach a consensus on mitigation success within 15 minutes or less. If a consensus cannot be reached, mitigation should be scaled upwards in accordance with the St. Louis District Work Zone Resolution Ladder</p>



Incident Levels

Major Impact Traffic Incident – Road closure > 2 hours

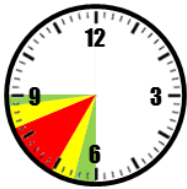
Major traffic incidents are typically traffic incidents involving hazardous materials, fatal traffic crashes involving numerous vehicles, and other natural or man-made disasters. These traffic incidents typically involve closing all or part of a roadway facility for a period exceeding 2 hours.

Moderate Impact Traffic Incident – Blocked travel lanes/closure 30 min – 2 hours

Moderate traffic impact incidents typically affect travel lanes for a time period of 30 minutes to 2 hours, and usually require traffic control on the scene to divert road users past the blockage. Full roadway closures might be needed for short periods during traffic incident clearance to allow traffic incident responders to accomplish their tasks.

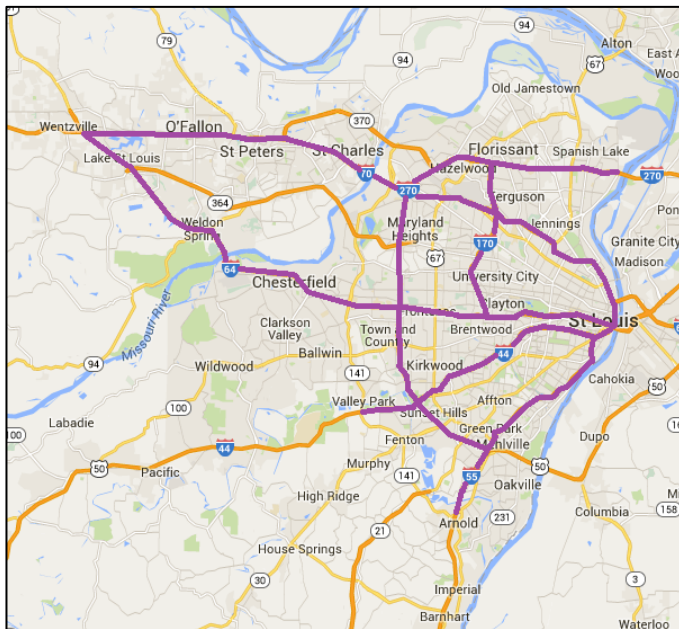
Minor Impact Traffic Incident – Lane closures < 30 minutes

Minor traffic incidents are typically disabled vehicles and minor crashes that result in lane closures of less than 30 minutes. On-scene responders are typically law enforcement and towing companies, and occasionally highway agency service patrol vehicles.



Worst Time to Travel Clocks

- The clocks found on the speed charts depict the progression of travel speeds during the commute peak period at the worst congestion location along the route.
- For example, the clock on the left depicts conditions worsening at a particular location beginning at 6:30 a.m. with the slowest speeds between 7 a.m. and 8:15 a.m. Conditions improved at 8:45 a.m.



The focus area for calculating the average 24 hour volumes was revisited in 2015 and consolidated to the more urban interstates of the St. Louis District. For example, data is generated from detectors on I-44 east of MO 141 (previously included all available in the District).



Definitions

ACTRA – Traffic signal management software program

Alert – Email message sent regarding an incident or event on the roadway

Arterial – Missouri State Highway Numbered Routes, not fully access controlled

Arterial Device – ITS equipment located along MoDOT arterials

Defined Sensor – A single sensor with an individual ID focused on a particular roadway; multiple defined sensors may be located at one physical sensor location

DMS – Dynamic Message Signs along highway displaying incident and travel time information

DNR – Department of Natural Resources

Driver messaging – Messages placed on DMS boards to alert drivers of incidents ahead of their direction of travel

EOC – Emergency Operations Center operated by MoDOT in Jefferson City

EMS – Emergency Medical Services

ER – MoDOT's Emergency Response units that provide emergency assistance, incident management and traffic control to mitigate incidents and restore free flow traffic within the St. Louis region

Freeway Device – ITS device located along a MoDOT freeway, such as interstates and other fully access controlled highways

Gatewayguide.com – Gateway Guide's website for local St. Louis area traffic information

GGL – Gateway Green Light is the St. Charles County regional integrated corridor management for a cooperative multi-jurisdictional effort to better manage and coordinate travel on the interstates (I-70, I-64), state routes (MO 94, MO 364, MO 370, US 61) and local arterials through the installation of Intelligent Transportation Systems (ITS) in Cottleville, Dardenne Prairie, Lake St. Louis, O'Fallon, St. Charles, St. Peters, and Wentzville.

GuidePost – Area of report highlighting important mobility topics for the month

IDOT – Illinois Department of Transportation

KC Scout – Gateway Guide's counterpart for the greater Kansas City Metropolitan area, a collaboration involving both MoDOT and the Kansas DOT

Mobility – Ease of movement over roadway, through system, and or work zone

MRB – Mississippi River Bridge under construction north of downtown St. Louis

MSHP – Missouri State Highway Patrol

Observed Work zone – Work zone tracked by traffic cameras at the TMC



DATA KEY

Peak Average – Daily speed sensor readings over an entire weekday average commute period averaged for an entire month

PSB – Poplar Street Bridge

Regional Mobility Overview – Map depicting congestion areas based on speed index ratings derived from speed sensor readings

SL – Designation for the St. Louis District

Speed Index – a ratio of the speed at which vehicles travel during a period to the speed at free-flow conditions

Stats to Watch – Area of report highlighting interesting trends for the report month, or data to be closely followed

STLtraffic – Email group consisting of Gateway Guide personnel and Gateway Guide's media partners, messages sent to the group are also posted on Twitter

TMC – Traffic Management Center (also referred to as Gateway Guide)

TMC Alert – Email alert sent to an internal group of Gateway Guide personnel

TMS – Traveler Map System is MoDOT's internal software for entering work zones and road conditions to populate the Traveler Information Map at www.traveler.modot.org/map

Travel Time Index – A ratio of the actual time to travel a corridor compared to travel time at posted speed limit without stops used

User Delay Costs – Puts a dollar amount on how much a road's performance impacts its users. Combines probe speed data with volume data provided by the Texas Transportation Institute to estimate the cost of delay experienced by drivers as a result of congestion. Vehicle costs used are Passenger Vehicle = \$17.67 and Commercial Vehicle = \$68.09.

Visibility – Concerning placement of traffic signs, signals, devices, barricades and warning lights for safety within work zone or construction area to help motorist and workers move within a work zone safely; Clearly visible and legible, distinguishable to approaching traffic during day and night, aligned with road user's line of vision, and positioned as to not obstruct other applicable traffic control devices. Must meet MUTCD standards for condition and must be covered, turned or properly stowed when not in use.

Zoning In – section of report highlighting important construction topics for the report month

I-70 Mile Markers

ST. CHARLES COUNTY		I-70 DISTRICT 6 WESTBOUND	I-70 DISTRICT 6 EASTBOUND	ST. CHARLES COUNTY	
5TH ST SOUTH (ST. CHARLES)	229A			229A	5TH ST SOUTH (ST. CHARLES)
5TH ST NORTH (ST. CHARLES)	229B			229B	5TH ST NORTH (ST. CHARLES)
ST. LOUIS COUNTY				ST. LOUIS COUNTY	
BLANCHETTE BRIDGE	230			230	BLANCHETTE BRIDGE
EARTH CITY EXPRESSWAY SOUTH	231A			231A	EARTH CITY EXPRESSWAY SOUTH
EARTH CITY EXPRESSWAY NORTH	231B			231B	EARTH CITY EXPRESSWAY NORTH
I-270	232			232	I-270
MCKELVEY RD OVERPASS (BRIDGETON)	233			233	MCKELVEY RD OVERPASS (BRIDGETON)
RTE 180/ST. CHARLES ROCK RD (BRIDGETON)	234			234	RTE 180/ST. CHARLES ROCK RD (BRIDGETON)
US 67 SOUTH (BRIDGETON)	235A	I-70 DISTRICT 6 WESTBOUND	I-70 DISTRICT 6 EASTBOUND	235A	US 67 SOUTH (BRIDGETON)
US 67 NORTH (BRIDGETON)	235B			235B	US 67 NORTH (BRIDGETON)
CYPRESS RD (BRIDGETON)	235C			235C	CYPRESS RD (BRIDGETON)
AIRFLIGHT (ST. ANN)	236			236	AIRFLIGHT (ST. ANN)
MCDONNELL OVERPASS (BERKELEY)	237			237	MCDONNELL OVERPASS (BERKELEY)
LAMBERT AIRPORT (BERKELEY)	238A			238A	LAMBERT AIRPORT (BERKELEY)
I-170 NORTH (BERKELEY)	238B			238B	I-170 NORTH (BERKELEY)
I-170 SOUTH (BERKELEY)	238C			238C	I-170 SOUTH (BERKELEY)
NORTH HANLEY (BERKELEY)	239			239	NORTH HANLEY (BERKELEY)
RTE N/FLORISSANT RD (COOL VALLEY)	240A			240A	RTE N/FLORISSANT RD (COOL VALLEY)
BERMUDA DR (NORMANDY)	240B	I-70 DISTRICT 6 WESTBOUND	I-70 DISTRICT 6 EASTBOUND	240B	BERMUDA DR (NORMANDY)
RTE U/LUCAS AND HUNT RD	241B			241B	RTE U/LUCAS AND HUNT RD
JENNINGS STATION RD (PINE LAWN)	242C			242C	JENNINGS STATION RD (PINE LAWN)
ST. LOUIS CITY				ST. LOUIS CITY	
GOODFELLOW (ST. LOUIS)	243A			243A	GOODFELLOW (ST. LOUIS)
RIVERVIEW/BIRCHER (ST. LOUIS)	243B			243B	RIVERVIEW/BIRCHER (ST. LOUIS)
UNION (ST. LOUIS)	244A			244A	UNION (ST. LOUIS)
KINGSHIGHWAY (ST. LOUIS)	244B			244B	KINGSHIGHWAY (ST. LOUIS)
SHREVE (ST. LOUIS)	245A			245A	SHREVE (ST. LOUIS)
WEST FLORISSANT AVE (ST LOUIS)	245B			245B	WEST FLORISSANT AVE (ST LOUIS)
NORTH BROADWAY (ST. LOUIS)	246A			246A	NORTH BROADWAY (ST. LOUIS)
ADELAIDE (ST LOUIS)	246B	I-70 DISTRICT 6 WESTBOUND	I-70 DISTRICT 6 EASTBOUND	246B	ADELAIDE (ST LOUIS)
GRAND (ST. LOUIS)	247			247	GRAND (ST. LOUIS)
SALISBURY (ST LOUIS)	248A			248A	SALISBURY (ST LOUIS)
BRANCH (ST LOUIS)	248B			248B	BRANCH (ST LOUIS)
MADISON (ST LOUIS)	249A			249A	MADISON (ST LOUIS)
PINE ST OVERPASS (ST LOUIS)	250			250	PINE ST OVERPASS (ST LOUIS)
CHESTNUT ST OVERPASS (ST LOUIS)	250			250	CHESTNUT ST OVERPASS (ST LOUIS)
MARKET ST OVERPASS (ST. LOUIS)	250			250	MARKET ST OVERPASS (ST. LOUIS)
WALNUT ST OVERPASS (ST LOUIS)	250			250	WALNUT ST OVERPASS (ST LOUIS)



DATA KEY

I-70 St. Charles County Mile Markers

RTE A (WENTZVILLE)	212	I-70 DISTRICT 6 EASTBOUND	I-70 DISTRICT 6 WESTBOUND	212	RTE A (WENTZVILLE)
LAKE ST. LOUIS BLVD (LAKE ST. LOUIS)	214			214	LAKE ST. LOUIS BLVD (LAKE ST. LOUIS)
BRYAN RD (O'FALLON)	216			216	BRYAN RD (O'FALLON)
RTE K/RTE M (O'FALLON)	217			217	RTE K/RTE M (O'FALLON)
T.R. HUGHES BLVD (O'FALLON)	218			218	T.R. HUGHES BLVD (O'FALLON)
RTE 79 (ST. PETERS/O'FALLON)	220			220	RTE 79 (ST. PETERS/O'FALLON)
RTE C/MID RIVERS MALL DR (ST. PETERS)	222			222	RTE C/MID RIVERS MALL DR (ST. PETERS)
SPENCER RD OVERPASS (ST. PETERS)	223			223	SPENCER RD OVERPASS (ST. PETERS)
RTE 370 (ST. PETERS)	224			224	RTE 370 (ST. PETERS)
CAVE SPRINGS (ST. CHARLES)	225			225	CAVE SPRINGS (ST. CHARLES)
ZUMBEHL RD (ST. CHARLES)	227			227	ZUMBEHL RD (ST. CHARLES)
HAWK'S NEST OVERPASS (ST. CHARLES)	227			227	HAWK'S NEST OVERPASS (ST. CHARLES)
RTE 94 (ST. CHARLES)	228			228	RTE 94 (ST. CHARLES)
5TH ST SOUTH (ST. CHARLES)	229A			229A	5TH ST SOUTH (ST. CHARLES)
5TH ST NORTH (ST. CHARLES)	229B			229B	5TH ST NORTH (ST. CHARLES)

I-270 Mile Markers

3	KOCH RD	I-255 WESTBOUND I-255 EASTBOUND I-270 DISTRICT 6 COUNTER CLOCKWISE FROM RIVERVIEW DR. TO I-55 I-270 DISTRICT 6 CLOCKWISE FROM I-55 TO RIVERVIEW DR.	KOCH RD	3
2	SR 231 (TELEGRAPH RD)		SR 231 (TELEGRAPH RD)	2
1C	US61-67		US61-67	1B
1B	I-55 NORTH		I-55 NORTH	1B
1	I-55 SOUTH		I-55 SOUTH	1A
2	SR 21 (TESSON FERRY RD.)		SR 21 (TESSON FERRY RD.)	2
3	SR 30 (GRAVOIS RD.)		SR 30 (GRAVOIS RD.)	3
5	I-44 EAST/SR 366 (WATSON RD.)		I-44 EAST	5
5	I-44 WEST		I-44 WEST	5
			BIG BEND RD.	7
8	DOUGHERTY FERRY RD.		DOUGHERTY FERRY RD.	8
10	SR 100 (MANCHESTER RD.)		SR 100 (MANCHESTER RD.)	10
12	I-64 EAST/WEST/US 40-61 NORTH/SOUTH		I-64 EAST/WEST/US 40-61 NORTH/SOUTH	12 A/B
13	SR AB (LADUE RD)		SR AB (LADUE RD)	13
14	SR 340 (OLIVE BLVD)		SR 340 (OLIVE BLVD)	14
16	SR D (PAGE AVE.) EAST		SR D (PAGE AVE.) EAST	16A
16	SR 364 WEST		SR 364 WEST	16B
17	DORSETT RD		DORSETT RD	17
20	I-70 WEST/EAST		I-70 WEST	20B
			I-70 EAST	20A
20C	SR 180 (ST. CHARLES ROCK RD)		SR 180 (ST. CHARLES ROCK RD)	20C
22	MISSOURI BOTTOM RD/370 WEST		SR 370 WEST	22D
23	MCDONNELL BLVD		MCDONNELL BLVD	23
25A	US 67 SOUTH		US 67 NORTH	25A
25B	US 67 NORTH		US 67 SOUTH	25B
26	HANLEY/GRAHAM RD.		I-170 SOUTH (EXIT LEFT)	26A
26	I-170 SOUTH		HANLEY/GRAHAM	26B
27	NEW FLORISSANT RD		NEW FLORISSANT RD	27
28	WASHINGTON/ELIZABETH RD.		ELIZABETH/WASHINGTON	28
29	WEST FLORISSANT RD		WEST FLORISSANT RD	29
30	SR AC HALLS FERRY RD		SR AC NEW HALLS FERRY RD	30
			NEW HALLS FERRY RD.	30A
31A	SR 367 SOUTH		SR 367 SOUTH	31A
31B	SR 367 NORTH		SR 367 NORTH	31B
32	BELLEFONTAINE RD		BELLEFONTAINE RD	32
33	LILAC AVE.		LILAC AVE.	33
34	RIVERVIEW DR.		RIVERVIEW DR.	34



DATA KEY

I-64 Mile Markers

I-70 WEST EXIT RIGHT/EAST EXIT LEFT	1		1A	I-70 WEST
			1B	I-70 EAST
PROSPECT RD	1C		1C	PROSPECT RD
LAKE ST. LOUIS BLVD	2		2	LAKE ST. LOUIS BLVD
SR N	4		4	MO N
SR DD/WINGHAVEN	6		6	MO DD/Winghaven
SR K/SR 94	9		9	MO K
			10	MO 94
MISSOURI RESEARCH PARK/TECHNOLOGY DR	12		11	RESEARCH PARK CRL
DANIEL BOONE BRIDGE	13		13	DANIEL BOONE BRIDGE
CHESTERFIELD AIRPORT RD	14		14	SPIRIT OF ST LOUIS BLVD
			16	LONG RD
BOONE'S CROSSING	17		17	BOONE'S CROSSING
CHESTERFIELD PKWY	19A		19A	CHESTERFIELD PKWY
SR 340 (OLIVE/CLARKSON)	19B		19B	MO 340 (OLIVE/CLARKSON)
			20	CHESTERFIELD PKWY
TIMBERLAKE MANOR PKWY	21		21	TIMBERLAKE MANOR PKWY
SR 141	22		22	MO 141 (WOODS MILL RD)
MASON RD	23		23	MARYVILLE CENTRE DR
			24	MASON RD
I-270 SOUTH	25A		25A	I-270 SOUTH
I-270 NORTH	25B		25B	I-270 NORTH
SR JJ (BALLAS RD)	26		26	MO JJ (BALLAS RD)
SPOEDE RD	27		27	SPOEDE RD
US 61-67	28A		28A	US 61-67
			28B	CLAYTON RD
MCKNIGHT RD	30		30	MCKNIGHT RD
BRENTWOOD/HANLEY RD	31B		31A	I-170 NORTH
I-170 NORTH	31A		31B	HANLEY RD/BRENTWOOD BLVD
BELLEVUE AVE	33B			
BIG BEND	33A		33A	BIG BEND BLVD
MCCAUSLAND	33C			ST. LOUIS CITY
ST. LOUIS CITY			33C	MCCAUSLAND AVE
HAMPTON AVE/OAKLAND AVE	34B		34A	CLAYTON RD/SKINKER BLVD
			34B	HAMPTON AVE
KINGSHIGHWAY	36A		36A	KINGSHIGHWAY
VANDEVENTER AVE	36C		36B	BOYLE
MARKET ST/BERNARD ST	37A			
GRAND AVE	37B			
JEFFERSON AVE	38A		38A	FOREST PARK AVE/GRAND BLVD
CHESTNUT AT 20TH ST	38B		38B	MARKET ST AT 3000 WEST
14TH ST	39B		39A	MARKET ST AT 21ST
11TH ST EXIT LEFT	39C		40A	STADIUM/9TH ST/ TUCKER BLVD
BROADWAY/7TH ST (LAST MISSOURI EXIT)	40B		40C	I-44 WB/I-55 SB/ I-70 WB

I-64 DISTRICT 6 WESTBOUND
I-64 DISTRICT 6 EASTBOUND

I-55 Mile Markers

JEFFERSON COUNTY		I-55 DISTRICT 6 NORTHBOUND I-55 DISTRICT 6 SOUTHBOUND	JEFFERSON COUNTY	
RTE M	185		185	RTE M
MAIN ST(IMPERIAL)	186		186	MAIN ST(IMPERIAL)
RICHARDSON RD (ARNOLD)	190		190	RICHARDSON RD (ARNOLD)
RTE 141 (ARNOLD)	191		191	RTE 141 (ARNOLD)
ST. LOUIS COUNTY			ST. LOUIS COUNTY	
MERAMEC BOTTOM RD	193		193	MERAMEC BOTTOM RD
BUTLER HILL RD	195		195	BUTLER HILL RD
I-255 EAST	196A		196A	I-255 EAST
I-270 NORTH	196B		196B	I-270 NORTH
US67/LINDBERGH	197		197	US67/LINDBERGH
REAVIS BARRACKS RD	199		199	REAVIS BARRACKS RD
UNION RD	200		200	UNION RD
BAYLESS	201A		201A	BAYLESS
WEBER RD	201B		201B	WEBER RD
ST. LOUIS CITY			ST. LOUIS CITY	
GERMANIA (ST. LOUIS)	202B		202B	GERMANIA (ST. LOUIS)
LOUGHBOROUGH AVE (ST. LOUIS)	202C		202C	LOUGHBOROUGH AVE (ST. LOUIS)
BATES (ST. LOUIS)	203		203	BATES (ST. LOUIS)
BROADWAY (ST. LOUIS)	204		204	BROADWAY (ST. LOUIS)
GASCONADE (ST. LOUIS)	205		205	GASCONADE (ST. LOUIS)
ARSENAL (ST. LOUIS)	206C		206C	ARSENAL (ST. LOUIS)
SIDNEY OVERPASS	206		206	SIDNEY OVERPASS
GRAVOIS AVE OVERPASS	207		207	GRAVOIS AVE OVERPASS
I-44 WEST (ST. LOUIS)	207		207	I-44 WEST (ST. LOUIS)
7TH ST/PARK AVE (ST. LOUIS)	208		208	7TH ST/PARK AVE (ST. LOUIS)

I-44 Mile Markers

FRANKLIN COUNTY		I-44 DISTRICT 6 WESTBOUND I-44 DISTRICT 6 EASTBOUND	FRANKLIN COUNTY	
PACIFIC	257		257	PACIFIC
ST. LOUIS COUNTY			261	ALLENTON/SIX FLAGS
ALLENTON/SIX FLAGS	261		ST. LOUIS COUNTY	
RTE 109/RTE W	264		264	RTE 109/RTE W
WILLIAMS RD	265			
LEWIS RD	266		266	LEWIS RD
			269	ANTIRE
RTE 141	272		272	RTE 141
BOWLES	274		274	BOWLES
MRAZ	274			
			275	SOCCER PARK
I-270 NORTH	276B		276B	I-270 NORTH
I-270 SOUTH	276A		276A	I-270 SOUTH
RTE 366/WATSON	277A			
US 67/LINDBERGH	277B		277B	US 67/LINDBERGH
BIG BEND	278		278	BIG BEND
			279	BERRY
ELM	280		280	ELM
LACLEDE STATION	282			
ST. LOUIS CITY			283	SHREWSBURY
JAMIESON	284A		ST. LOUIS CITY	
			284B	ARSENAL
			285	SOUTHWEST
HAMPTON	286		287	KINGSHIGHWAY
KINGSHIGHWAY	287		288	GRAND AVE
GRAND AVE	288		289	JEFFERSON AVE
JEFFERSON AVE	289			
I-55 SOUTH	290A			
18TH ST	290B		290C	12TH ST./GRAVOIS

I-170 Mile Markers

I-64 WEST/US 40-61	1A	I-170 DISTRICT 6 SOUTHBOUND I-170 DISTRICT 6 NORTHBOUND	
I-64 EAST/US 40-61	1B		
			1C GALLERIA PARKWAY
BRENTWOOD BLVD	1D		
FOREST PARK PARKWAY	1E		1E FOREST PARK PARKWAY
LADUE RD	1F		1F LADUE RD
DELMAR	2		2 DELMAR
EAST/3B WEST SR 340 (OLIVE BLVD)	3A		3 SR 340 (OLIVE BLVD)
SRD/SR 364 (PAGE AVE)	4		4 SR D/SR 364 (PAGE AVE)
SR 180 (ST. CHARLES ROCK RD)	5		5 SR 180 (ST. CHARLES ROCK RD)
SR 115 (NATURAL BRIDGE RD)	6		6 SR 115 (NATURAL BRIDGE RD)
I-70 EAST (EXIT LEFT)	7A		7A I-70 EAST (EXIT RIGHT)
I-70 WEST (EXIT RIGHT)	7B		7B I-70 WEST (EXIT LEFT)
			7C LAMBERT ST. LOUIS AIRPORT
SCUDDER	8		8 SCUDDEN/N. HANLEY RD
AIRPORT RD	9A		9A AIRPORT
			9B BOEING (EXIT LEFT)
			9C N. HANLEY RD
			10A I-270 WEST (EXIT RIGHT)
			10B I-270 EAST (EXIT LEFT)

SR 364 Mile Markers

		SR 364 WESTBOUND SR 364 EASTBOUND	11B	HARVESTER RD
			12	HERITAGE CROSSING/JUNGS STATION RD
SR94 EAST/ST. CHARLES	13		13	SR 94 EAST/MUEGGE RD
ARENA PKWY/UPPER BOTTOM RD	14		14	UPPER BOTTOM/ARENA
MARYLAND HEIGHTS EXPRESSWAY	17		17	MARYLAND HEIGHTS EXPRESSWAY
BENNINGTON PL	19			
			21	BENNINGTON PL
I-270 SOUTH	22A			
I-270 NORTH	22B			

SR 370 Mile Markers

		SR 370 WESTBOUND SR 370 EASTBOUND	1A	I-70 WESTBOUND
			1B	I-70 EASTBOUND
			1C	SPENCER RD
TRUMAN/CAVE SPRINGS RD	2		2	TRUMAN/CAVE SPRINGS RD
ELM/NEW TOWN BLVD	5		5	ELM/NEW TOWN BLVD
N 3RD ST/SR 94	7		7	N 3RD ST/SR 94
DISCOVERY BRIDGE ST. CHAS CO/ ST. LOUIS CO	8		8	DISCOVERY BRIDGE ST. LOUIS CO/ ST. CHAS CO
EARTH CITY EXPRESSWAY	9		9	EARTH CITY EXPRESSWAY
ST. LOUIS MILLS BLVD	11		11	ST. LOUIS MILLS BLVD
MISSOURI BOTTOM RD	12			
I-270 WEST BOUND	12			
I-270 EAST BOUND	12			

SR 21 Mile Markers

RT B	164.8	SR 21 NORTHBOUND SR 21 SOUTHBOUND	164.8	RT B
RT BB	165.4		165.4	RT BB
STADIUM DR UNDERPASS	166.4		166.4	STADIUM DR UNDERPASS
RTE A	167.8		167.8	RTE A
SAND CREEK	169		169	SAND CREEK
HAYDEN RD	169.2		169.2	HAYDEN RD
GLADE CHAPEL RD OVERPASS	171.4		171.4	GLADE CHAPEL RD OVERPASS
OLD HWY 21 (GOLDMAN)	172.6		172.6	OLD HWY 21 (GOLDMAN)
KLABLE RD OVERPASS	174.2		174.2	KLABLE RD OVERPASS
SCHENK RD OVERPASS	175.2		175.2	SCHENK RD OVERPASS
HEADS CREEK	176.4		176.4	HEADS CREEK
RT MM	177.7		177.7	RT MM
W. FOUR RIDGE RD OVERPASS	179		179	W. FOUR RIDGE RD OVERPASS
OLD HWY 21 (SHADY VALLEY)	180.4		180.4	OLD HWY 21 (SHADY VALLEY)
OLD HWY 21 UNDERPASS	182		182	OLD HWY 21 UNDERPASS
WEST ROCK CREEK RD OVERPASS	182.8		182.8	WEST ROCK CREEK RD OVERPASS
OLD HWY 21 OVERPASS	183.2		183.2	OLD HWY 21 OVERPASS
LONDELL RD	184.2		184.2	LONDELL RD
OLD HWY 21	184.5		184.5	OLD HWY 21
SR 141	185.6		185.6	SR 141