



ST. LOUIS DISTRICT MOBILITY

NOVEMBER/DECEMBER 2016

GUIDEPOST

- FOLLOWING HISTORICAL TRENDS, FREEWAY MOBILITY IMPROVED FROM NOVEMBER TO DECEMBER IN BOTH PEAKS WITH SEASONAL CHANGES IMPACTING TRAVEL.
- MOBILITY WAS CONSISTENTLY BETTER IN THE AM THAN PM THROUGH HOT SPOTS.
- DECEMBER INCIDENT LANE CLEARANCE TIMES INCREASED BY ALMOST 4 MINUTES. LANE CLEARANCE TIMES WERE HEAVILY IMPACTED BY A DECEMBER 16TH WINTER STORM EVENT WITH AN AVERAGE LANE CLEARANCE TIME OF 49:32 FOR THE 50 WINTER STORM RELATED INCIDENTS.

NEW FOR THIS REPORT:

- ADDED SPEED DATA ON ROUTE 364
- MISSISSIPPI RIVER CROSSINGS CHARTS
- HERE DATA CHARTS FROM RITIS ON I-270 CORRIDOR



FIRE AND ICE CONTRIBUTED TO MOBILITY ISSUES THROUGHOUT THE REGION AS FALL TURNED INTO WINTER. CRASHES AND IGY CONDITIONS CLOSED ROADWAYS IN DECEMBER.

MOBILITY SNAPSHOT



FREEWAY MOBILITY

NOVEMBER TO DECEMBER COMPARISON:

AM IMPROVEMENT / PM IMPROVEMENT



FREEWAY AVERAGE 24 HOUR VOLUMES

NOV 2015 → NOV 2016: -1.08%

DEC 2015 → DEC 2016: -4.59%



MAJOR INCIDENTS

NOV 2016: 9 → DEC 2016: 7



AVERAGE INCIDENT DURATION NOV → DEC

LANE CLEARANCE: 25:27 → 29:22

INCIDENT CLEARANCE: 28:21 → 32:22
(MIN: SEC)



MAJOR IMPACT WORK ZONES

NOV → 0 DEC → 0

MODERATE IMPACT WORK ZONES

NOV → 0 DEC → 1

ZONING IN

TMS WORK ZONES

◆ NOVEMBER 2016: 207

◆ DECEMBER 2016: 179

WORK ZONE BREAKDOWN:

- ◆ MAJOR: 0 - 0.0%
- ◆ MODERATE: 1 - 0.4%
- ◆ MINOR: 257 - 99.6%

WORK ZONE CRASHES: 8



GATEWAY GUIDE
TRANSPORTATION MANAGEMENT CENTER

AECOM



WORK ZONES

TMC Observed Work Zones November - December 2016			
November		December	
Level of Travel Time Impact	Number of Work Zones	Level of Travel Time Impact	Number of Work Zones
Major Impact	0	Major Impact	0
Moderate Impact	0	Moderate Impact	1
Minor Impact	132	Minor Impact	125
Total	132	Total	126

*Impact Levels described in Data Key

SL Mobility Rating:

- ◆ Nov 2016: 94%
- ◆ Dec 2016: 98%
- ◆ Goal: 91%

SL Visibility levels:

- ◆ Nov 2016: 98%
- ◆ Dec 2016: 97%
- ◆ Goal: 91%

Major Impact (15 Minutes or Above Additional Travel Time)

None

Moderate Impact (10-14 Minutes Additional Travel Time)

12/14 (Wednesday) Northbound I-170 at St. Charles Rock Road -- Center lane closed

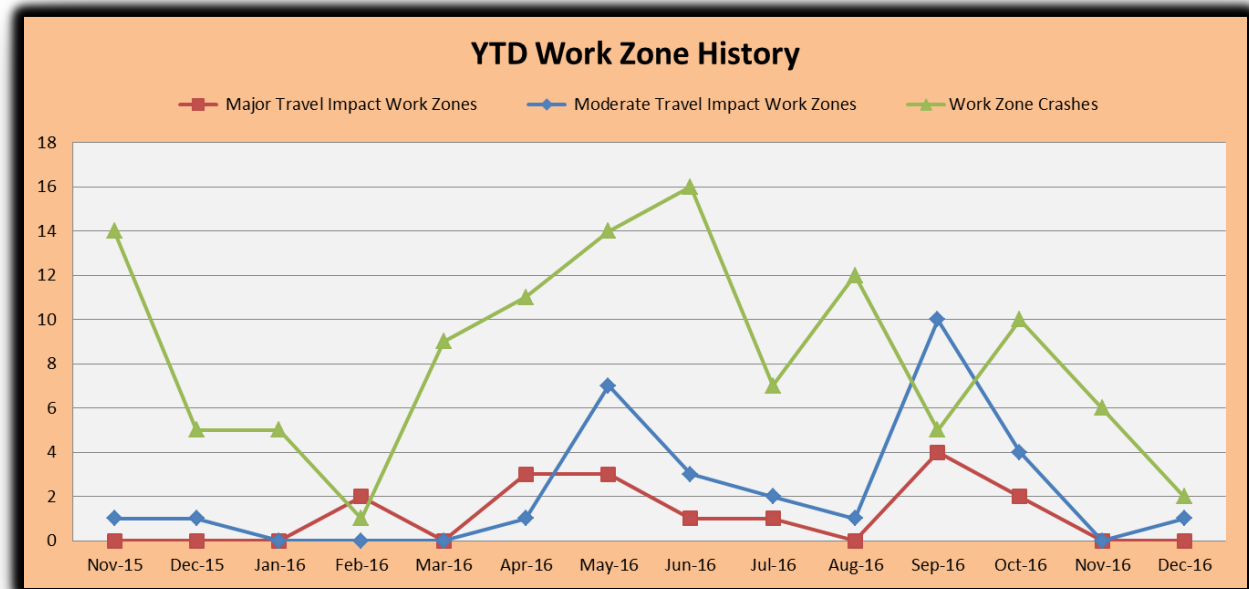
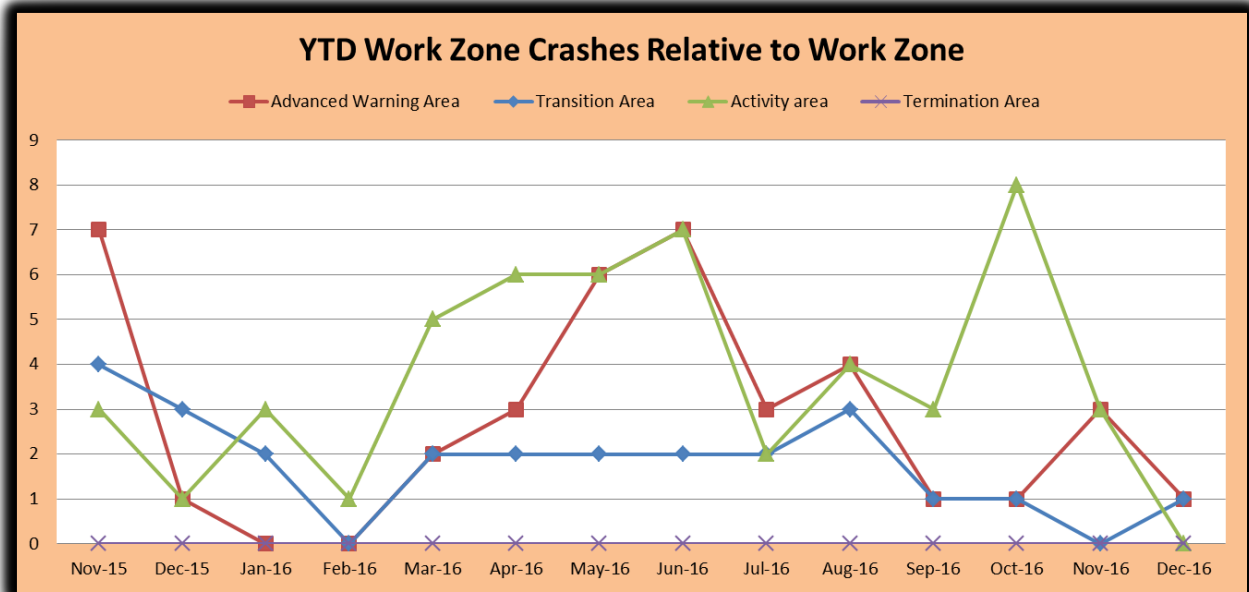
- Center lane closure in place for 14 days
- All mitigation efforts were in use
- RITIS data recorded an additional travel time of 11 minutes during the AM and PM peaks
- Additional travel time determined from a baseline established with historical data for peak drive times

Work Zone Related Crashes with Mobility Impact

*****None*****



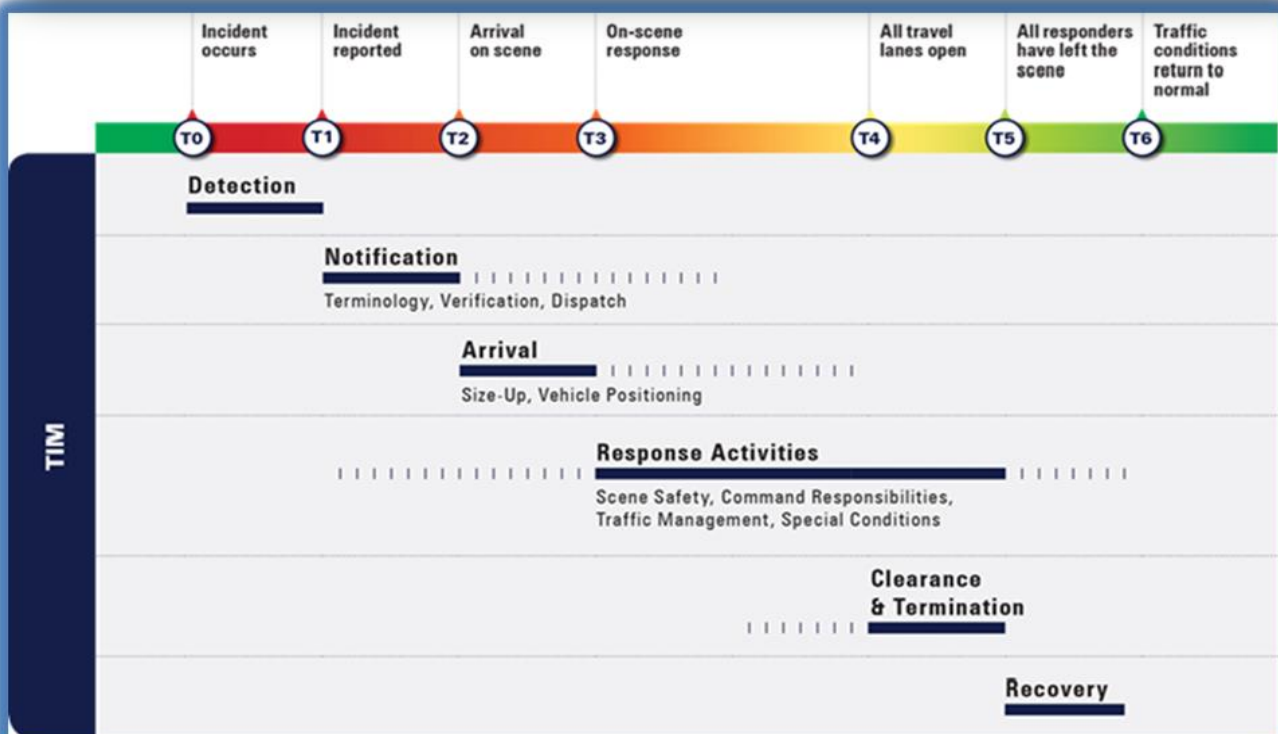
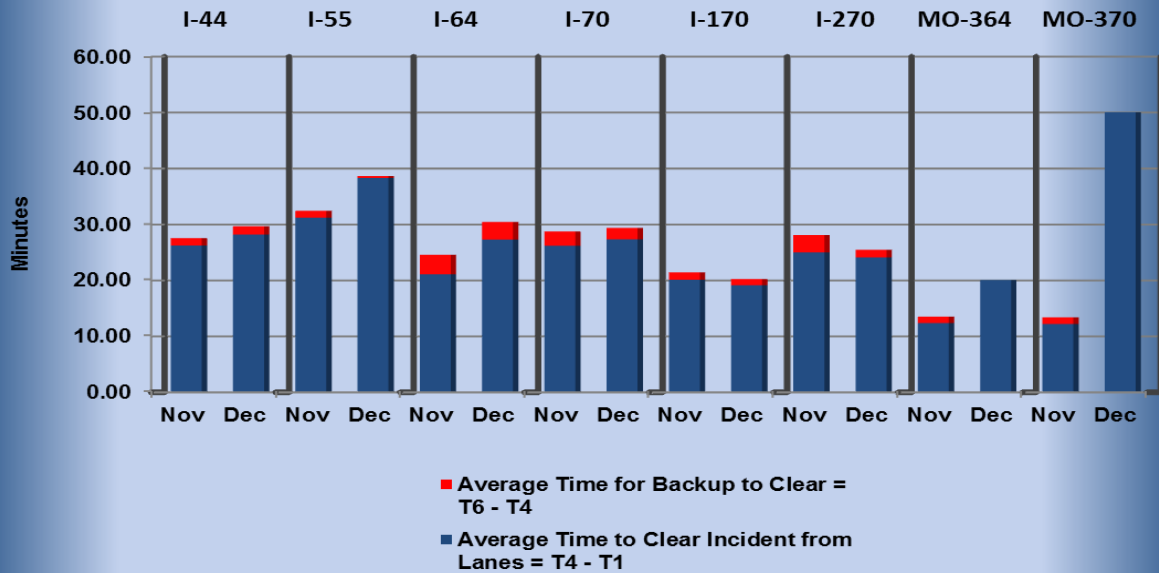
WORK ZONES





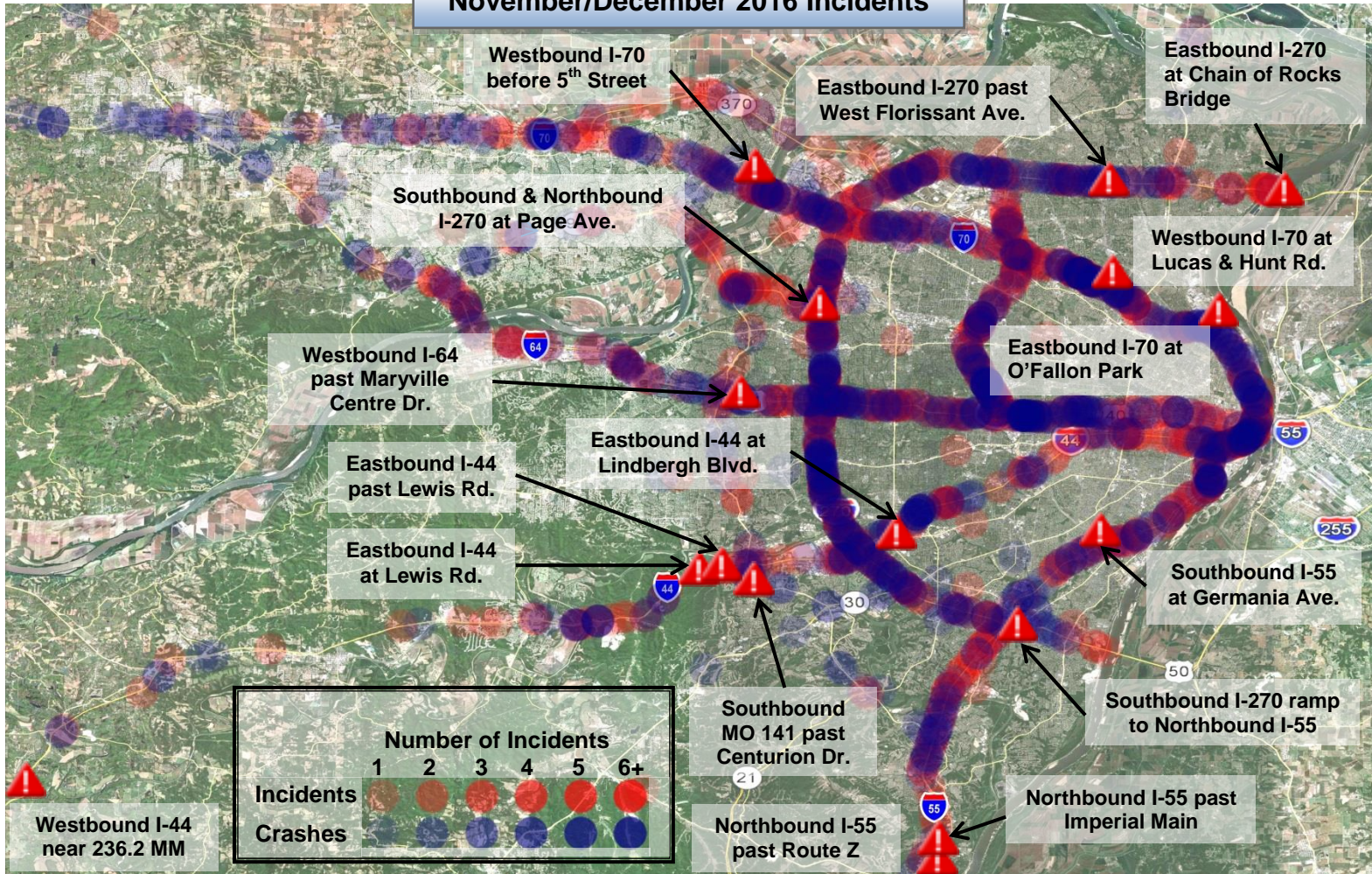
INCIDENT MANAGEMENT

November 2016 vs. December 2016 Incidents Summary



INCIDENT MANAGEMENT

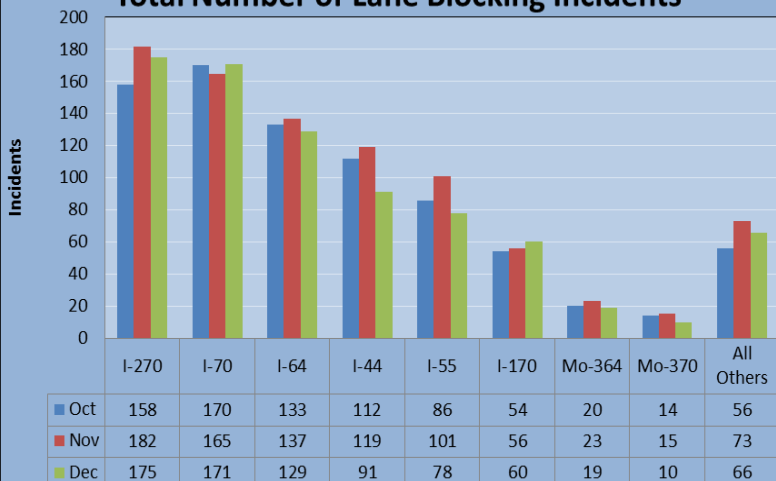
November/December 2016 Incidents



Denotes Location of Major Impact Traffic Incidents

Total Number of Incidents: October: 803 / November: 871 / December: 799

Total Number of Lane Blocking Incidents



Major Impact Incidents

November 2016 vs. December 2016
(9) (7)

Fatal Incidents

November 2016 vs. December 2016
(8) (3)

Tractor Trailer Incidents

November 2016 vs. December 2016
(38) (48)

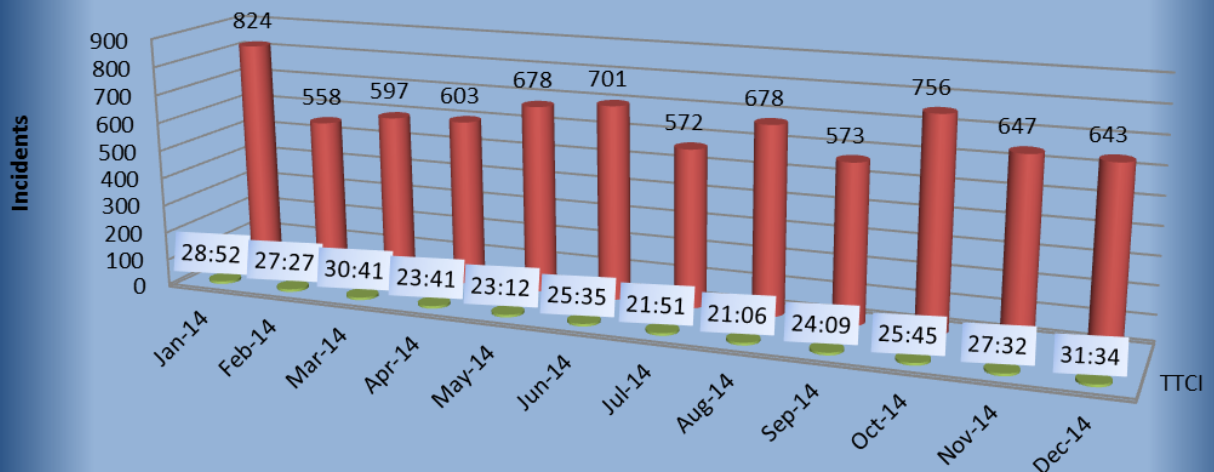


INCIDENT MANAGEMENT

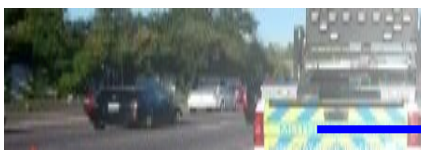
Lane Blocking Incidents by Freeway November and December 2016

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	Nov	119	26:23	01:32	33	3.61
I-44	Dec	91	28:18	01:52	33	2.76
I-55	Nov	101	31:23	01:20	23	4.39
I-55	Dec	78	38:34	00:34	23	3.39
I-64	Nov	137	21:10	03:48	40	3.43
I-64	Dec	129	27:31	03:14	40	3.23
I-70	Nov	165	26:22	02:52	38	4.34
I-70	Dec	171	27:34	02:05	38	4.50
I-170	Nov	56	20:10	01:33	11	5.09
I-170	Dec	60	19:13	01:11	11	5.45
I-270	Nov	182	25:01	03:11	36	5.06
I-270	Dec	175	24:12	01:37	36	4.86
MO-364	Nov	23	12:36	01:16	11	2.09
MO-364	Dec	19	20:06	00:00	11	1.73
MO-370	Nov	15	12:20	01:20	13	1.15
MO-370	Dec	10	50:06	00:00	13	0.77
Total	Nov/Dec	1531	25:41	01:43	410	3.73

2014 Number of Incidents and Time to Clear Lanes



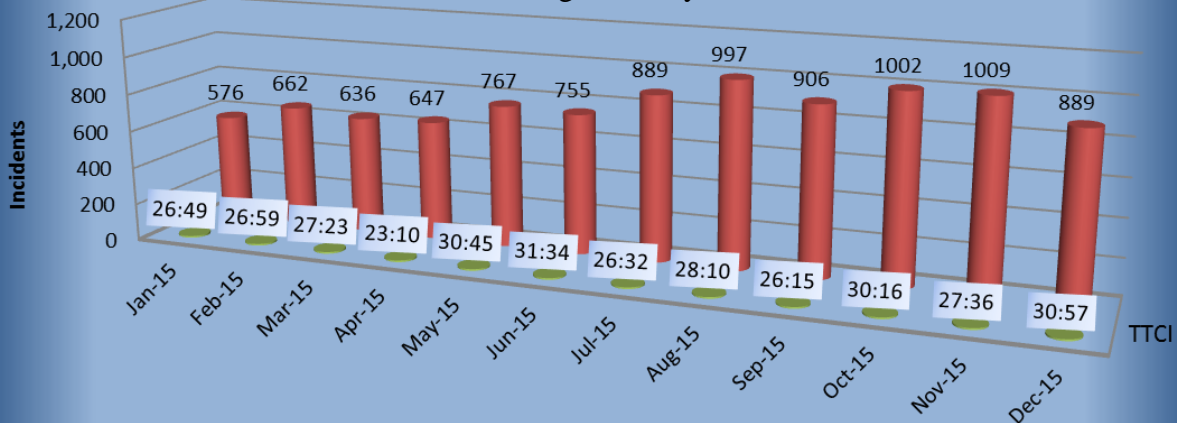
	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
TTCI	28:52	27:27	30:41	23:41	23:12	25:35	21:51	21:06	24:09	25:45	27:32	31:34
Incidents	824	558	597	603	678	701	572	678	573	756	647	643



INCIDENT MANAGEMENT

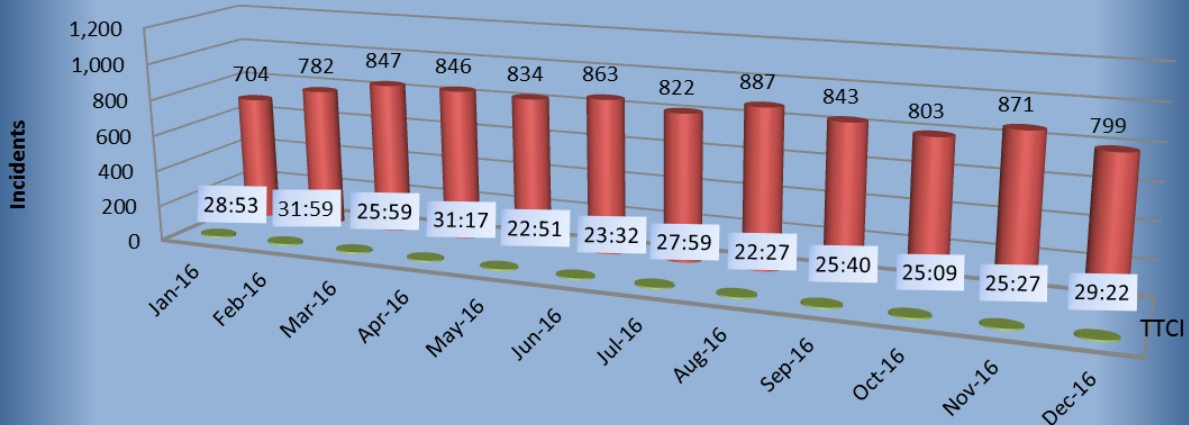
2015 Number of Incidents and Time to Clear Lanes

*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

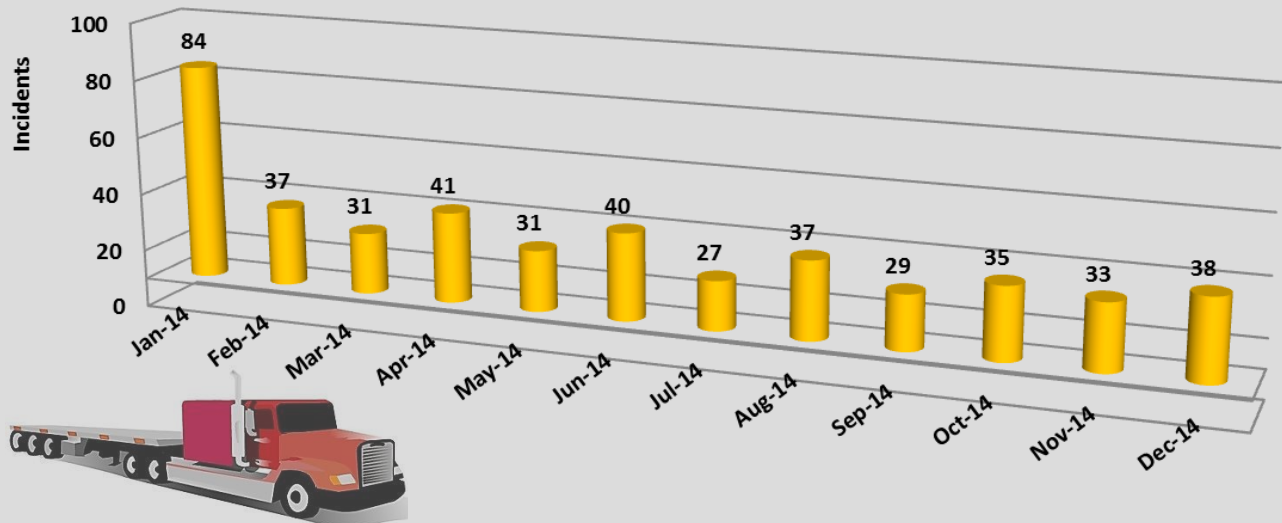
2016 Number of Incidents and Time to Clear Lanes



	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	25:27	29:22
Incidents	704	782	847	846	834	863	822	887	843	803	871	799

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

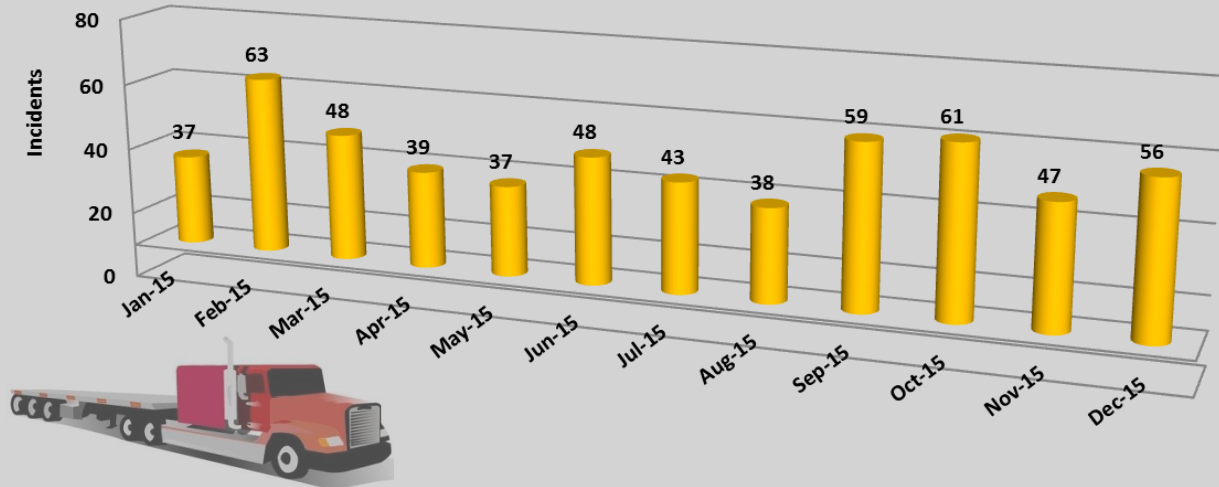
2014	I-44	I-55	I-64	I-70	I-170	I-255 / I-270	Route 364	Route 370	Other *	Total
Jan	21	7	9	30	3	10	3	1	0	84
Feb	5	3	6	15	1	6	0	1	0	37
Mar	8	7	6	5	0	4	0	1	0	31
Apr	8	3	12	7	0	11	0	0	0	41
May	5	9	4	4	1	8	0	0	0	31
Jun	11	9	5	8	0	7	0	0	0	40
Jul	4	2	9	4	0	7	0	1	0	27
Aug	5	4	7	8	2	10	0	1	0	37
Sep	3	3	4	10	0	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



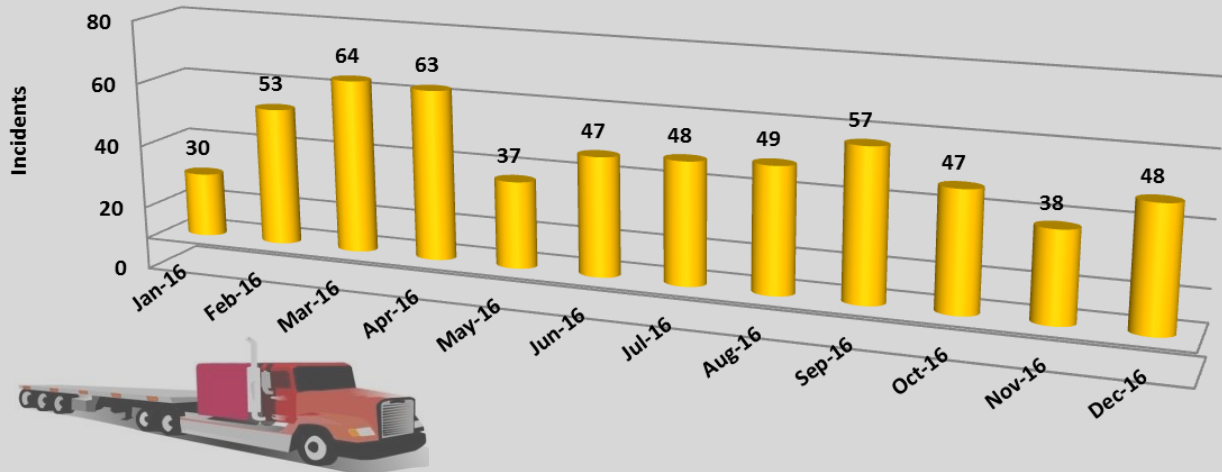
	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
Incidents	37	63	48	39	37	48	43	38	59	61	47	56

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	38	48

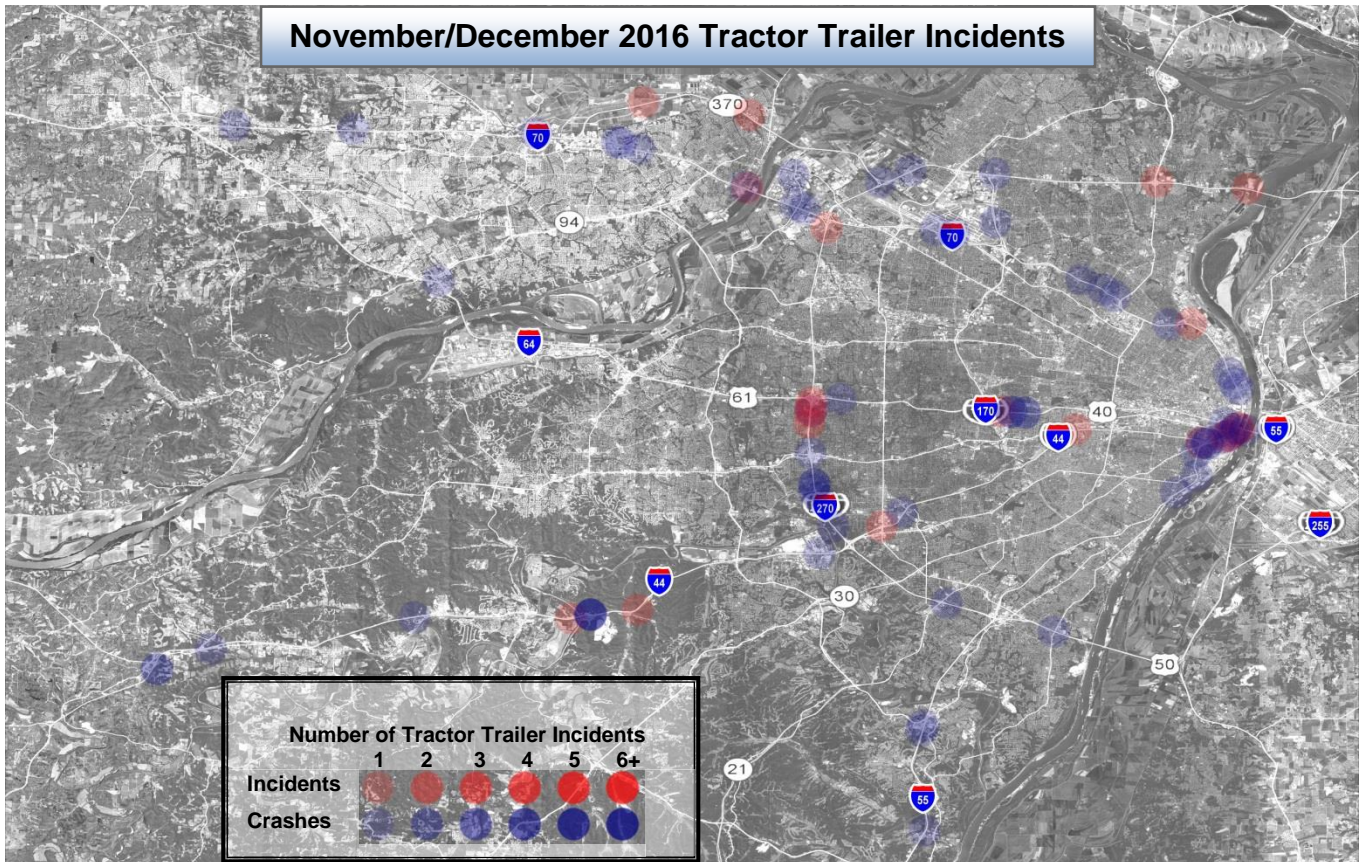
2016	I-44	I-55	I-64	I-70	I-170	I-255 / I-270	Route 364	Route 370	Other *	Total
Jan	7	3	4	5	1	10	0	0	0	30
Feb	10	6	10	17	2	5	0	1	2	53
Mar	15	10	6	22	2	8	0	0	1	64
Apr	17	7	7	16	1	11	0	2	2	63
May	7	4	5	9	0	8	0	2	2	37
Jun	14	3	8	12	0	7	0	1	2	47
Jul	16	3	5	13	0	6	0	2	3	48
Aug	18	3	5	9	2	11	0	0	1	49
Sep	14	3	5	18	1	14	0	0	2	57
Oct	10	4	5	12	0	11	0	3	2	47
Nov	18	6	1	6	0	4	0	2	1	38
Dec	5	7	7	14	1	11	0	1	2	48
Totals	151	59	68	153	10	106	0	14	20	581

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

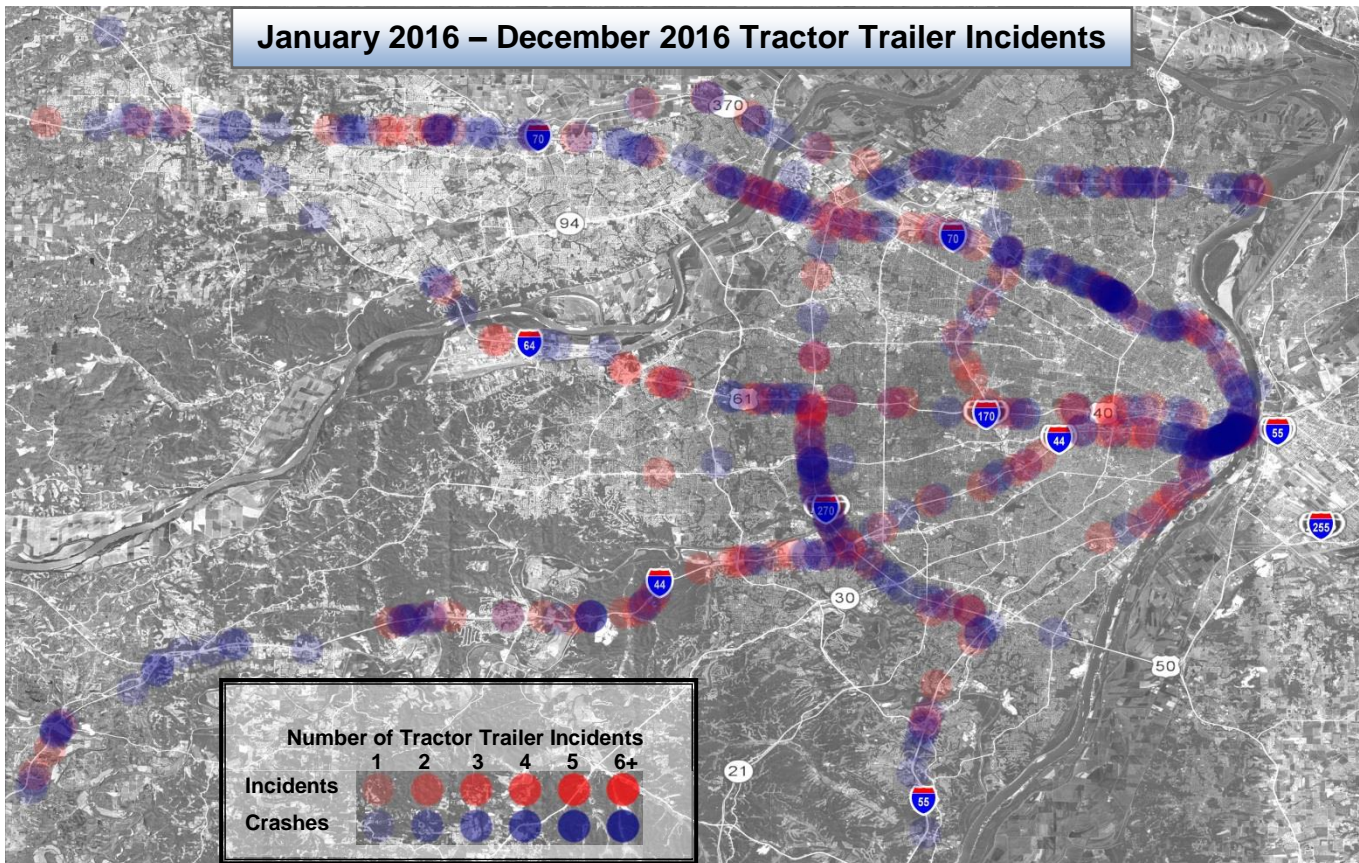


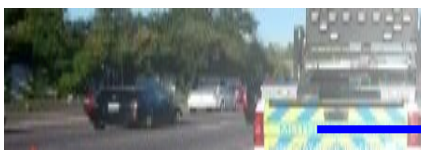
INCIDENT MANAGEMENT

November/December 2016 Tractor Trailer Incidents



January 2016 – December 2016 Tractor Trailer Incidents






INCIDENT MANAGEMENT

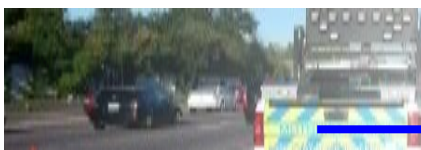
Major Impact Traffic Incidents and Mitigation

11/2/2016 (Wednesday)

- **Time:** 8:52 pm – 12:11 am *** Fatality ***
- **Location:** St. Louis County – Southbound MO 141 past Centurion Drive
- **Event:** Wrong-Way Driver / Multi-Vehicle Crash
- **Estimated Initial Impact:** Non-Rush Hour: 3 of 3 travel lanes affected equals (=) 100%
- **Incident Details:** A multi-vehicle crash, involving two motorcycles and a wrong-way passenger vehicle. The passenger vehicle was traveling northbound in the southbound lanes of MO 141. The vehicle struck both motorcycles head-on, resulting in the driver of one of the motorcycles to be fatally injured. The second motorcyclist was transported in serious condition.
- **Action:** St. Louis County Police, MSHP, Fenton Fire and EMS responded, as well as Emergency Response personnel who provided traffic control. Command of the scene was turned over to the MSHP who completed an accident reconstruction. This resulted in all lanes of Southbound MO 141 being closed. TMC activated all available DMS boards and the closure was entered into TMS to alert the public. No significant traffic impact was noted, presumably due to the time of day. Traffic immediately returned to normal once all lanes were cleared.
- **Event Duration:** 3 hours 19 minutes

Southbound MO 141 past Centurion Drive 	Left Shoulder	Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes	3:19	3:19	3:14	3:11	3:11






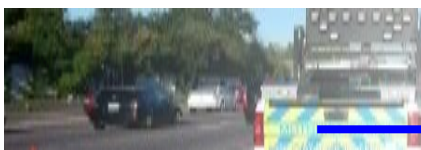
INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

11/3/2016 (Thursday)

- **Time:** 5:25 am – 8:58 am
- **Location:** St. Louis County – Westbound I-70 at Lucas & Hunt Road
- **Event:** Multi-Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 3 of 3 travel lanes affected equals (=) 100%
- **Incident Details:** A three vehicle crash involving an SUV, passenger vehicle and a tractor trailer. It was reported that the SUV went under the tractor trailer rupturing a fuel tank and hydraulic fluid line. A secondary crash occurred in the queue approximately two hours into the incident and cleared at 8:27 am.
- **Action:** Normandy Police and Fire, and Christian Northeast EMS responded. Emergency Response personnel provided traffic control and assisted with detouring traffic around the crash using the Lucas & Hunt entrance ramp. ER units cleaned up the fuel and hydraulic fluid using oil dry. Duration was extended due to the complexity of removing the car out from under the tractor trailer. The TMC messaged for the event using all available DMS boards and the closure was entered into TMS to alert the public. The EOC and Communication Staff were both notified of the incident. Traffic queued for 6 miles back to Grand Avenue and took approximately 27 minutes after all lanes were cleared to return to normal.
- **Event Duration:** 3 hours 33 minutes

Westbound I-70 at Lucas & Hunt Road 	Left Shoulder	Lane 1	Lane 2	Lane 3	Entrance Lane 1	Right Shoulder
Closed Hours/Minutes	3:33	3:33	3:33	2:26	0:00	0:00




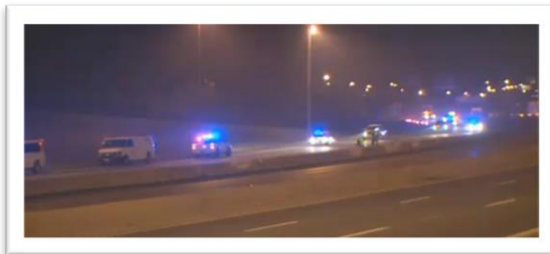
INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

11/6/2016 (Sunday)

- **Time:** 1:21 am – 6:51 am *** Fatality ***
- **Location:** St. Louis City – Eastbound I-70 at O’Fallon Park
- **Event:** Vehicle Crash
- **Estimated Initial Impact:** Non-Rush Hour: 3 of 3 travel lanes affected equals (=) 100%
- **Incident Details:** A passenger vehicle struck the rear of small SUV causing it to strike the median wall. Two of the occupants of the SUV were ejected and a total of four from that vehicle were transported with serious to critical injuries. One was later pronounced deceased at the hospital. The driver of the passenger car got into a second vehicle that stopped and fled the scene.
- **Action:** St. Louis City Police, Fire and EMS responded, and Emergency Response personnel provided traffic control. All lanes of the interstate were closed as police completed a reconstruction. Drivers were detoured off at Exit 246 (O’Fallon Park) where they were able reenter the interstate on the other side of the overpass. The EOC, Communications Staff, IDOT, Motor Carriers, the AE, and the MoDOT Incident Management Coordinator were notified. The TMC messaged for the event and entered it into TMS to notify the public. Traffic queued approximately a half mile to West Florissant Avenue at the onset, but quickly cleared once the detour was in place.
- **Event Duration:** 6 hours 30 minutes (includes additional hour from Daylight Savings time change)

Eastbound I-70 at O’Fallon Park 	Left Shoulder	Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes	6:30	6:30	6:30	6:30	6:30






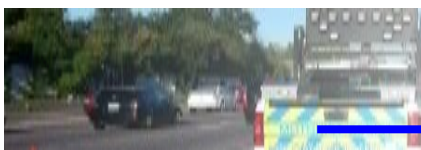
INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

11/8/2016 (Tuesday)

- **Time:** 2:39 am – 11:32 am
- **Location:** St. Louis County – Eastbound I-44 at Lewis Road
- **Event:** Single Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 3 of 3 travel lanes affected equals (=) 100%
- **Incident Details:** Overturned tractor trailer carrying 77,000 pounds of vegetables. The produce had to be off loaded by hand before the trailer could be up righted.
- **Action:** St. Louis County Police, Eureka Fire and EMS responded. Emergency Response personnel provided traffic control. There were concerns that the trailer may fall apart if they attempted to lift it. Air bag system equipment was requested, which increased the duration of the incident. The EOC, Motor Carriers, IDOT, and the MoDOT Incident Management Coordinator were notified. The TMC messaged for the event and entered it into TMS to notify the public.
- **Event Duration:** 8 hours 52 minutes

Eastbound I-44 at Lewis Road 	Left Shoulder	Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes	4:04	4:08	4:27	5:56	8:43




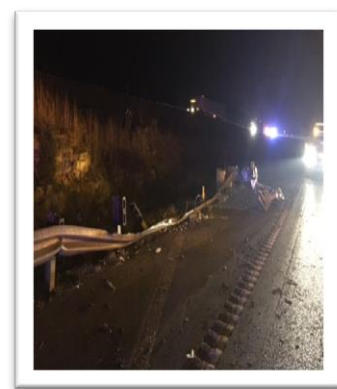
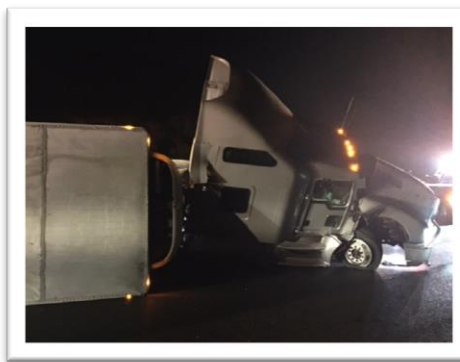
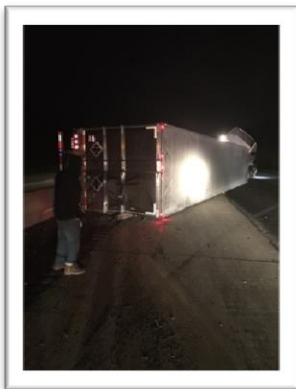
INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

11/9/2016 (Wednesday)

- **Time:** 3:17 am – 6:43 am
- **Location:** St. Louis County – Eastbound I-44 past Lewis Road
- **Event:** Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 3 of 3 travel lanes affected equals (=) 100%
- **Incident Details:** A tractor trailer ran off the right side of the road, struck the guardrail before returning to the roadway where it overturned.
- **Action:** St. Louis County Police, MSHP, and Eureka Fire and EMS responded. Emergency Response personnel assisted with traffic control. Duration of the incident was extended due to the fact that the tractor trailer's cargo had to be offloaded before the trailer could be up righted. All lanes of traffic were closed during this process and traffic was diverted off onto Lewis Road. The TMC messaged for the incident and notified the MoDOT Incident Management Coordinator, EOC, motor carriers, the AE, and community relations. Traffic took 47 minutes to return to normal once both crashes were cleared.
- **Event Duration:** 3 hour 26 minutes

Eastbound I-44 past Lewis 	Left Shoulder	Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes	3:08	3:08	3:08	3:08	3:08






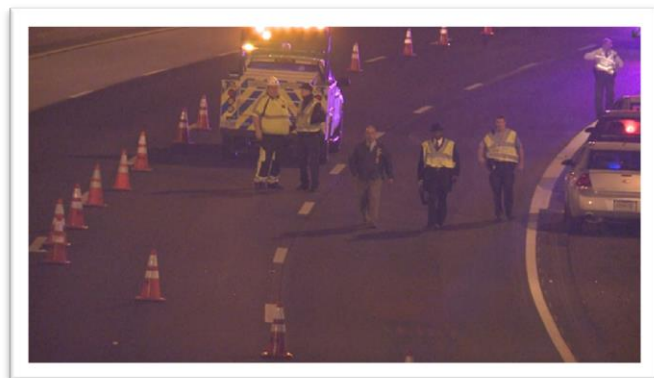
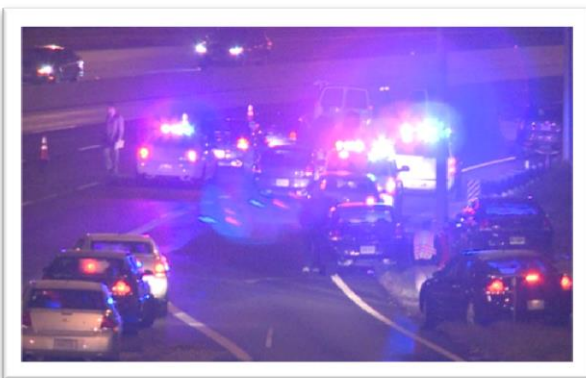
INCIDENT MANAGEMENT

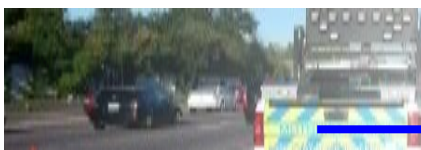
Major Impact Traffic Incidents and Mitigation

11/9/2016 (Wednesday)

- **Time:** 5:41 pm – 8:31 pm *** Fatality ***
- **Location:** St. Louis City – Southbound I-55 at Germania Avenue
- **Event:** Police Activity
- **Estimated Initial Impact:** Rush Hour: 4 of 4 travel lanes affected equals (=) 100%
- **Incident Details:** A MoDOT Emergency Response unit came across what he believed to be a stalled vehicle on the right shoulder of Southbound I-55 just past Loughborough. He attempted to contact the driver to see if he needed assistance. It was discovered that the driver had been shot and was deceased. The TMC notified St. Louis City PD and the MoDOT ER unit remained on scene attempting to secure it until police arrived.
- **Action:** MoDOT Emergency Response began blocking Lane 4 prior to St. Louis City PD's arrival. Once St. Louis City PD arrived, they took Lane 3 and eventually closed all lanes to complete a sweep of the area with K9 units. The EOC, IDOT, AE, Communication Staff, Motor Carriers, and the MoDOT Incident Management Coordinator were all notified. The TMC messaged for the event and entered it into TMS to notify the public of the closure. Traffic was diverted off at Bates, where they could return to the interstate via Carondelet Boulevard. Traffic queued approximately 1.6 miles, but returned to normal almost immediately after the lanes were opened.
- **Event Duration:** 2 hours 50 minutes

Southbound I-55 at Germania Avenue	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
						
Closed Hours/Minutes	1:39	1:39	1:39	2:10	2:35	2:50







INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

11/19/2016 (Saturday)

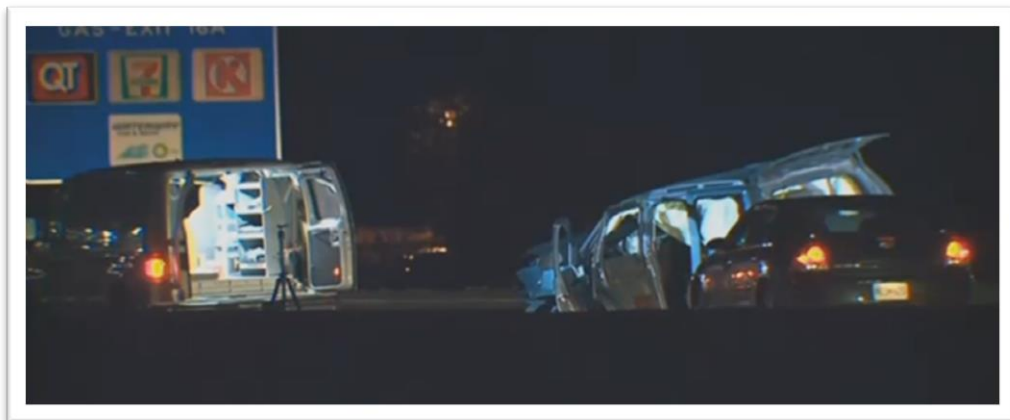
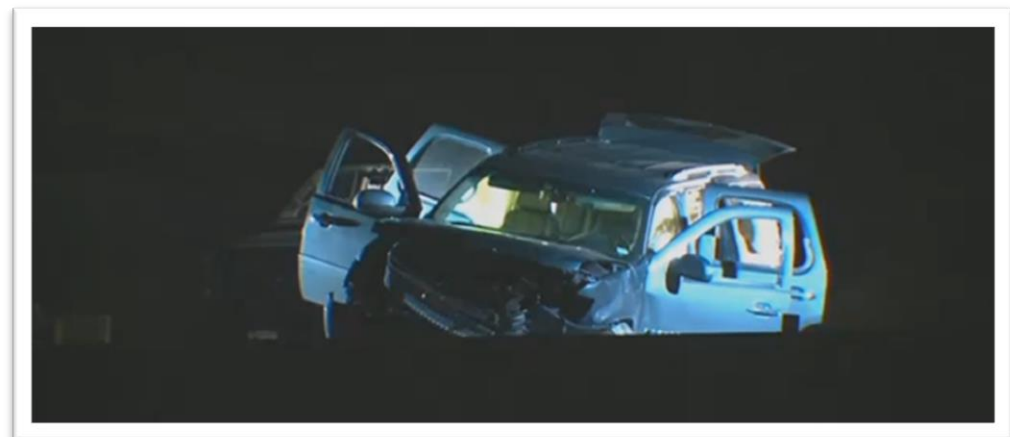
- **Time:** 12:30 pm – 4:44 pm
- **Location:** St. Louis County – Southbound & Northbound I-270 at Page Avenue
- **Event:** Police Pursuit / Vehicle Crash
- **Estimated Initial Impact:** Non-Rush Hour: 8 of 8 travel lanes affected equals (=) 100%
- **Incident Details:** A police pursuit of a carjacking suspect from Wentzville, MO. After running over stop sticks, the vehicle crashed into the median wall of Southbound I-270 at Page Avenue. As officers approached the vehicle shots were fired. This resulted in an entire closure of Southbound and Northbound I-270.
- **Action:** Due to the nature of the incident, police units from numerous jurisdictions responded to assist. MoDOT Emergency Response provided traffic control detouring drivers off at Page Avenue and eventually moving the detour back to Dorsett Road. The TMC messaged for the closure on all available DMS boards and it was also entered into TMS to alert the public. The EOC, IDOT, AE, Community Relations, Motor Carriers, and the MoDOT Incident Management Coordinator were all notified. The initial queue was back to Dorsett Road in the southbound direction. However, the queue cleared quickly once the detour was in place. Due primarily to the time of the incident, the impact to traffic was minimal and no noticeable queue was observed on the northbound side.
- **Event Duration:** 4 hours 14 minutes

Southbound I-270 at Page Avenue 	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
Closed Hours/Minutes	4:12	4:12	4:12	4:06	4:03	4:03
Northbound I-270 at Page Avenue 	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
Closed Hours/Minutes	2:16	2:16	2:16	2:16	2:16	2:16



INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation






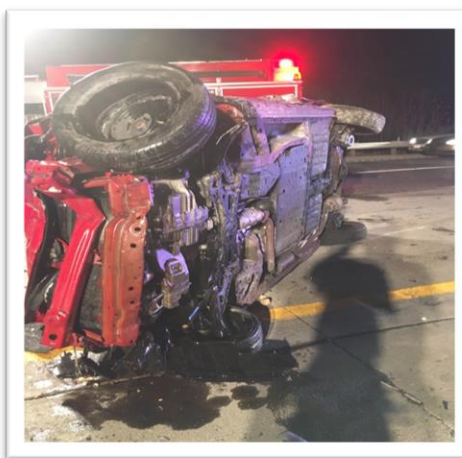
INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

11/25/2016 (Friday)

- **Time:** 8:52 pm – 12:34 am *** Fatality ***
- **Location:** Jefferson County – Northbound I-55 past Route Z
- **Event:** Multi-Vehicle Crash
- **Estimated Initial Impact:** Non-Rush Hour: 3 of 3 travel lanes affected equals (=) 100%
- **Incident Details:** Vehicle 1 was following too close to Vehicle 2 and lost control when applying brakes. Vehicle 1 ran off the left side of the roadway where it struck the center median cables. This caused Vehicle 1 to overturn and come to rest on its passenger side in the left lane. A third vehicle traveling north struck the overturned vehicle, which resulted in the driver of the overturned vehicle to be fatally injured.
- **Action:** MSHP, Jefferson County Sheriff, Fire and EMS responded. MoDOT Emergency Response provided traffic control. All northbound lanes of the highway were closed as the Air Evac helicopter landed on the interstate to transport the driver of Vehicle 1. The highway remained closed for MSHP to complete reconstruction. Duration of the incident was extended 40 minutes for the reconstructionist to arrive on scene. Traffic was diverted off at Route Z. The TMC messaged for the event and it was entered into TMS to alert the public. The traffic queue was approximately ¼ of a mile.
- **Event Duration:** 3 hours 41 minutes

Northbound I-55 Past Route Z 	Left Shoulder	Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes	2:14	3:41	3:39	1:15	0:54



Major Impact Traffic Incidents and Mitigation

11/27/2016 (Sunday)

- **Time:** 4:02 am – 7:29 am *** 3 Fatalities ***
- **Location:** Franklin County – Westbound I-44 near 236.2 Mile Marker
- **Event:** Wrong-Way Driver Vehicle Crash
- **Estimated Initial Impact:** Non-Rush Hour: 2 of 2 travel lanes affected equals (=) 100%
- **Incident Details:** A vehicle left the St. Clair Rest Area traveling eastbound in the westbound lanes of I-44. That vehicle struck a minivan head on, which was occupied by seven passengers. The drivers of both vehicles and a two-year-old passenger in the minivan were all pronounced at the scene. The remaining five passengers of the minivan were transported with injuries ranging from minor to serious.
- **Action:** MSHP, Franklin County, and St. Clair Fire and EMS responded. The scene was turned over to the MSHP who completed an accident reconstruction. MoDOT Emergency Response assisted with diverting traffic to the outer road at St. Clair Exit 239. The TMC messaged for the incident on all available DMS boards and entered the closure into TMS to alert the public. The EOC, Motor Carriers, Community Relations, and the AE were all notified. Traffic queued an estimated 3 miles, prior to the detour being put into place, and cleared quickly thereafter.
- **Event Duration:** 3 hours 26 minutes


Westbound I-44 Near 236.2 Mile Marker	Left Shoulder	Lane 1	Lane 2	Right Shoulder
				
Closed Hours/Minutes	3:26	3:26	3:26	3:26



Major Impact Traffic Incidents and Mitigation

12/5/2016 (Monday)

- **Time:** 5:00 pm – 7:25 pm
- **Location:** St. Louis County – Southbound I-270 ramp to Northbound I-55
- **Event:** Single Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 1 of 1 ramp lane affected equals (=) 100%
- **Incident Details:** A car hauler overturned while hauling one vehicle, blocking the ramp.
- **Action:** Emergency Response personnel provided traffic control. St. Louis County Police, along with Mehlville Fire and EMS responded. The duration of the incident was extended due to the fact that three large tow trucks were required to upright the car hauler and the vehicle it was hauling. The TMC messaged alerting drivers of the incident. EOC, motor carriers, AE, and Communication Staff were notified. A queue of approximately one mile was observed, just south of Gravois Road, primarily in the right lanes.
- **Event Duration:** 2 hours 25 minutes

Southbound I-270 ramp to Northbound I-55	Left Shoulder	Exit Lane	Right Shoulder
			
Closed Hours/Minutes	2:25	2:25	2:25


12/5/2016 (Monday)

- **Time:** 5:24 pm – 6:54 pm
- **Location:** St. Louis County – Eastbound I-44 at Lindbergh Boulevard
- **Event:** School Bus Fire
- **Estimated Initial Impact:** Rush Hour: 5 of 5 travel lanes affected equals (=) 100%
- **Incident Details:** A school bus driver noticed smoke coming from the engine as he was driving. The bus driver immediately pulled the bus over to the shoulder and took steps to evacuate all students before the fire engulfed the bus. Two students were transported. One student for an injured ankle and a second for complaints of smoke inhalation.
- **Action:** MSHP, St. Louis County Police, Crestwood Police, Fire and Abbot EMS responded. Emergency Response personnel assisted with traffic control. TMC activated all available DMS boards and the incident was entered into TMS to alert the public. Duration of incident was extended due to the amount of oil and debris on the roadway. MoDOT ER units used several bags of oil dry in the cleanup. Traffic queued approximately 1.5 miles to Watson Road.
- **Event Duration:** 1 hours 30 minutes

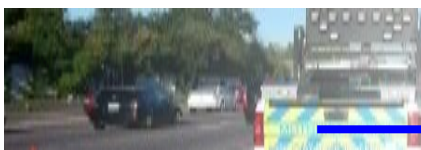


INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

Eastbound I-44 at Lindbergh Boulevard 	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Right Shoulder
Closed Hours/Minutes	0:25	0:25	0:25	0:53	1:28	1:28	1:28






INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

12/9/2016 (Friday)


- **Time:** 8:10 pm – 10:46 pm
- **Location:** St. Louis County – Eastbound I-270 past West Florissant Avenue
- **Event:** Multi-vehicle Crash
- **Estimated Initial Impact:** Non-Rush Hour: 4 of 4 travel lanes affected equals (=) 100%
- **Incident Details:** A chain reaction crash that occurred after Vehicle 1, travelling at a high rate of speed, struck the rear of Vehicle 2. Vehicle 2 struck Vehicle 3 and travelled off the left side of the roadway. Vehicle 2 then struck the median wall before travelling off the right side of the roadway and overturning. Vehicle 3 travelled off the right side of the road and struck a fence. Vehicle 1 continued and struck Vehicle 4 before travelling off the left side of the road and striking the concrete median. Vehicle 4 spun around and struck overturned Vehicle 2.
- **Action:** St. Louis County Police, MSHP, Ferguson Fire and Christian NE EMS responded. Emergency Response personnel assisted with traffic control. TMC activated all available DMS boards and the incident was entered into TMS to alert the public. Traffic queued for two miles for a short time when all lanes were closed. However, it cleared quickly once lane #2 was opened and there was no further significant impact to traffic noted.
- **Event Duration:** 2 hours 36 minutes

Eastbound I-270 past West Florissant Avenue 	Left Shoulder	Lane 1	Lane 2	Lane 3	Exit Lane 1	Right Shoulder
Closed Hours/Minutes	0:00	2:16	0:23	2:30	2:30	2:36

Major Impact Traffic Incidents and Mitigation

12/16/2016 (Friday)

- **Time:** 4:56 pm – 9:03 pm *** Weather Related ***
- **Location:** St. Louis County – Westbound I-64 past Maryville Centre Drive
- **Event:** Multi-vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 2 of 4 travel lanes affected equals (=) 50%
- **Incident Details:** Multiple vehicle crashes along the same stretch of roadway due to ice.
- **Action:** Maintenance crews responded to salt the area.
- **Event Duration:** 4 hours 7 minutes

Westbound I-64 past Maryville Centre Drive 	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
Closed Hours/Minutes	0:00	0:00	0:00	4:07	4:07	4:07

12/16/2016 (Friday)

- **Time:** 6:19 pm – 12:30 am *** Weather Related ***
- **Location:** Jefferson County – Northbound I-55 past Imperial Main
- **Event:** Multi-vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 4 of 4 travel lanes affected equals (=) 100%
- **Incident Details:** Initially a multi-vehicle crash. Then, due to ice, tractor trailers were not able to get up the hill and emergency responders were not able to get on scene to assist.
- **Action:** Maintenance, assisted by MSHP, came southbound in the northbound lane to spread salt at the front of the queue. Road treatment allowed traffic to slowly start moving. The TMC messaged for the event on all available message boards. The EOC, motor carriers, and Communications Staff were notified. Queue was estimated at 4 miles.
- **Event Duration:** 6 hours 11 minutes

Northbound I-55 past Imperial Main 	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
Closed Hours/Minutes	5:32	5:32	5:32	5:49	6:11	6:11




INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

12/19/2016 (Monday)

- **Time:** 3:54 am – 9:27 am
- **Location:** St. Charles County – Westbound I-70 before 5th Street
- **Event:** Multi-vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 2 of 4 travel lanes affected equals (=) 50%
- **Incident Details:** A three vehicle crash including two tractor trailers. One of the tractor trailers was hauling soda, which apparently exploded during the crash. This caused the soda to spill onto the roadway.
- **Action:** St. Charles City Police, Fire and EMS responded. Emergency Response personnel assisted with traffic control. The incident was extended due to several maintenance trucks needed to assist with the cleanup. The TMC messaged for the incident. The initial queue was minimal with traffic backing up only to the Blanchette Bridge. During rush hour traffic was slow through the area (primarily due to on-lookers).
- **Event Duration:** 5 hours 33 minutes

Westbound I-70 before 5 th Street 	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
Closed Hours/Minutes	0:00	0:00	0:00	0:09	5:17	5:17




INCIDENT MANAGEMENT

Major Impact Traffic Incidents and Mitigation

12/28/2016 (Wednesday)

- **Time:** 5:58 am – 8:08 am
- **Location:** St. Louis City/Illinois – Eastbound I-270 at Chain of Rocks Bridge
- **Event:** Single Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 2 of 3 travel lanes affected equals (=) 66%
- **Incident Details:** A tractor trailer crashed into the guardrail of Westbound I-270 on the Chain of Rocks Bridge. The cab of the tractor trailer went over the side of the bridge and became fully engulfed in fire. Firefighters fought the blaze from both sides of the bridge, which burned consistently for over an hour.
- **Action:** St. Louis City Fire and EMS, Illinois Fire Departments, Illinois State Police, St. Louis City Police, and St. Louis County Police responded. Initially only westbound traffic coming from Illinois was affected. However, once firefighters arrived, both eastbound and westbound lanes of I-270 were closed. Emergency Response personnel assisted St. Louis County Police with shutting the eastbound lanes of traffic at MO 367. Ramp access to Eastbound I-270 also had to be shut down at Bellefontaine Road, Lilac and Riverview Blvd. The signal engineer set the signals to favor exiting traffic. The incident was extended due to the length of time it took to get the fire extinguished, cleanup of the area, and the bridge had to be inspected by an engineer to ensure no structural damage. The TMC messaged for the closure advising motorists to seek an alternative route and also entered it into TMS to notify the public. The EOC, AE, Motor Carriers, and MoDOT Incident Management Coordinator were all notified. The initial queue was 2.5 miles (back to Lilac) prior to the diversion at MO 367. After the initial queue, impact to traffic was minimal.
- **Event Duration:** 2 hours 9 minutes

Eastbound I-270 at Chain of Rocks Bridge 	Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes	1:22	1:09	1:09	1:09



INCIDENT MANAGEMENT

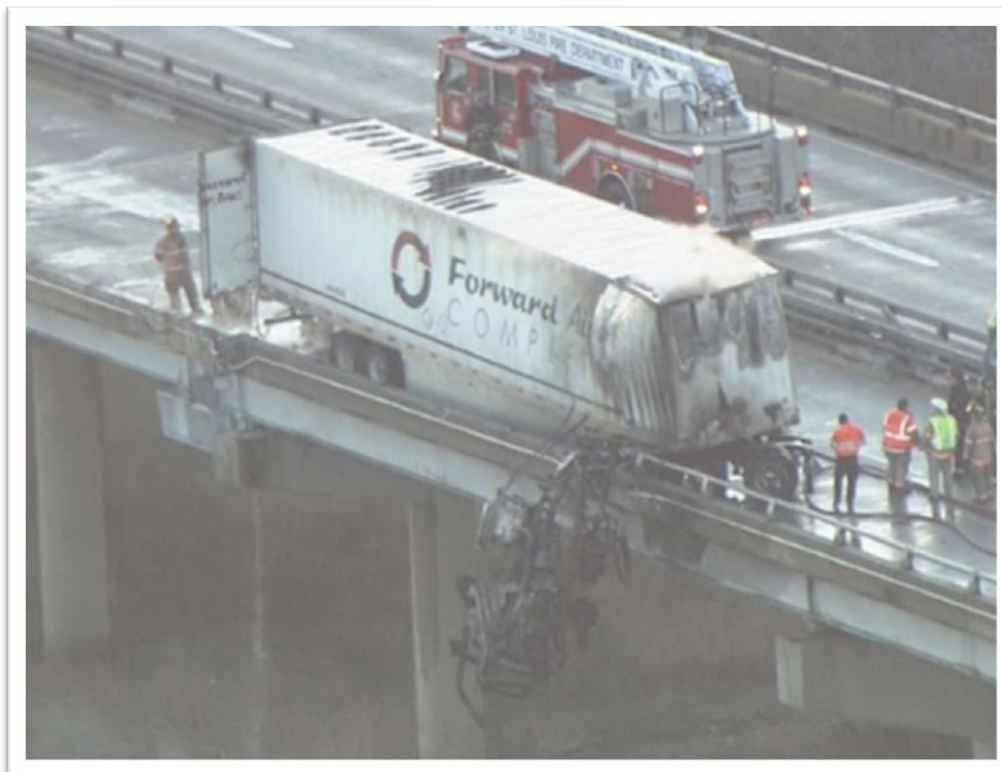
Major Impact Traffic Incidents and Mitigation



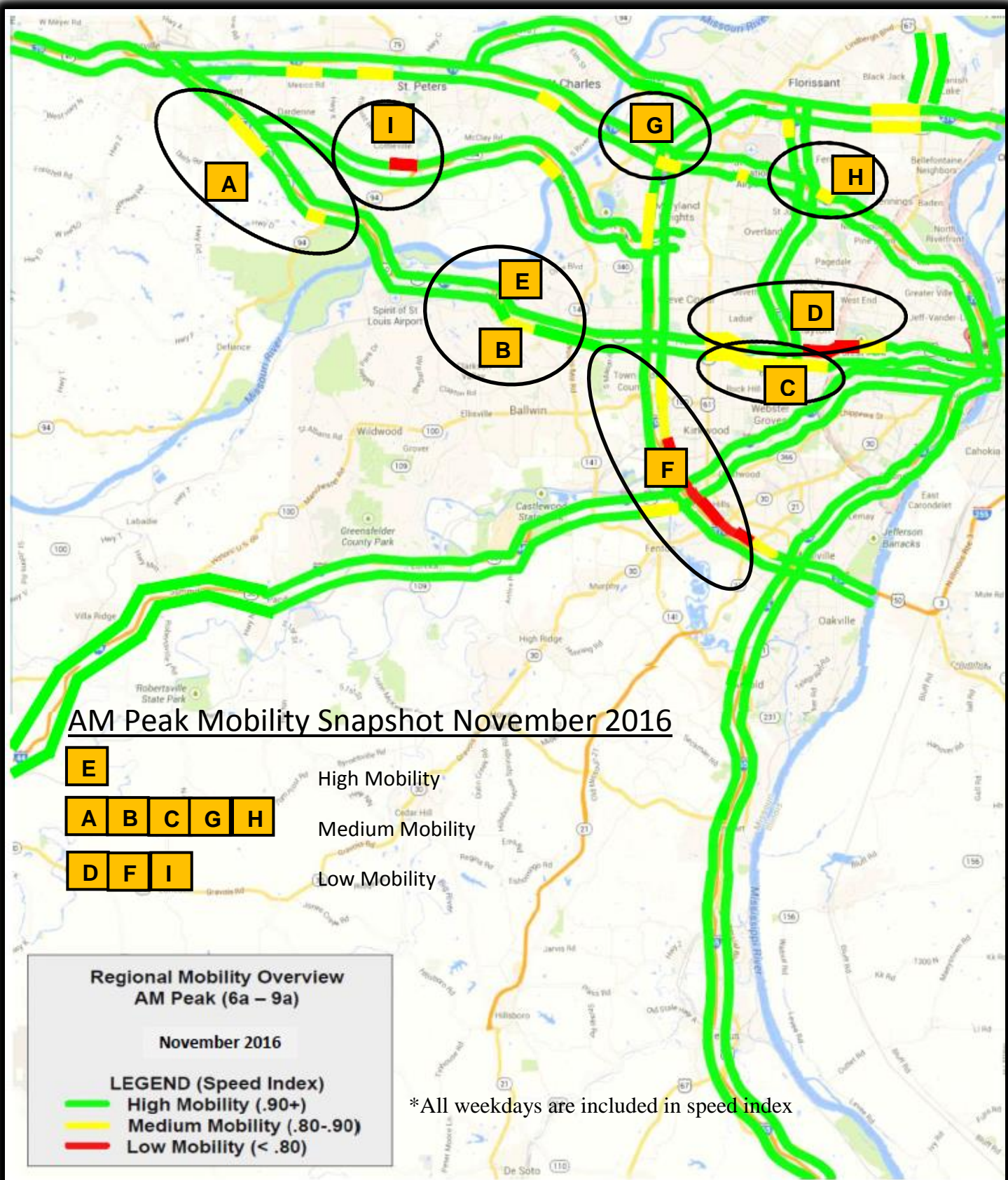


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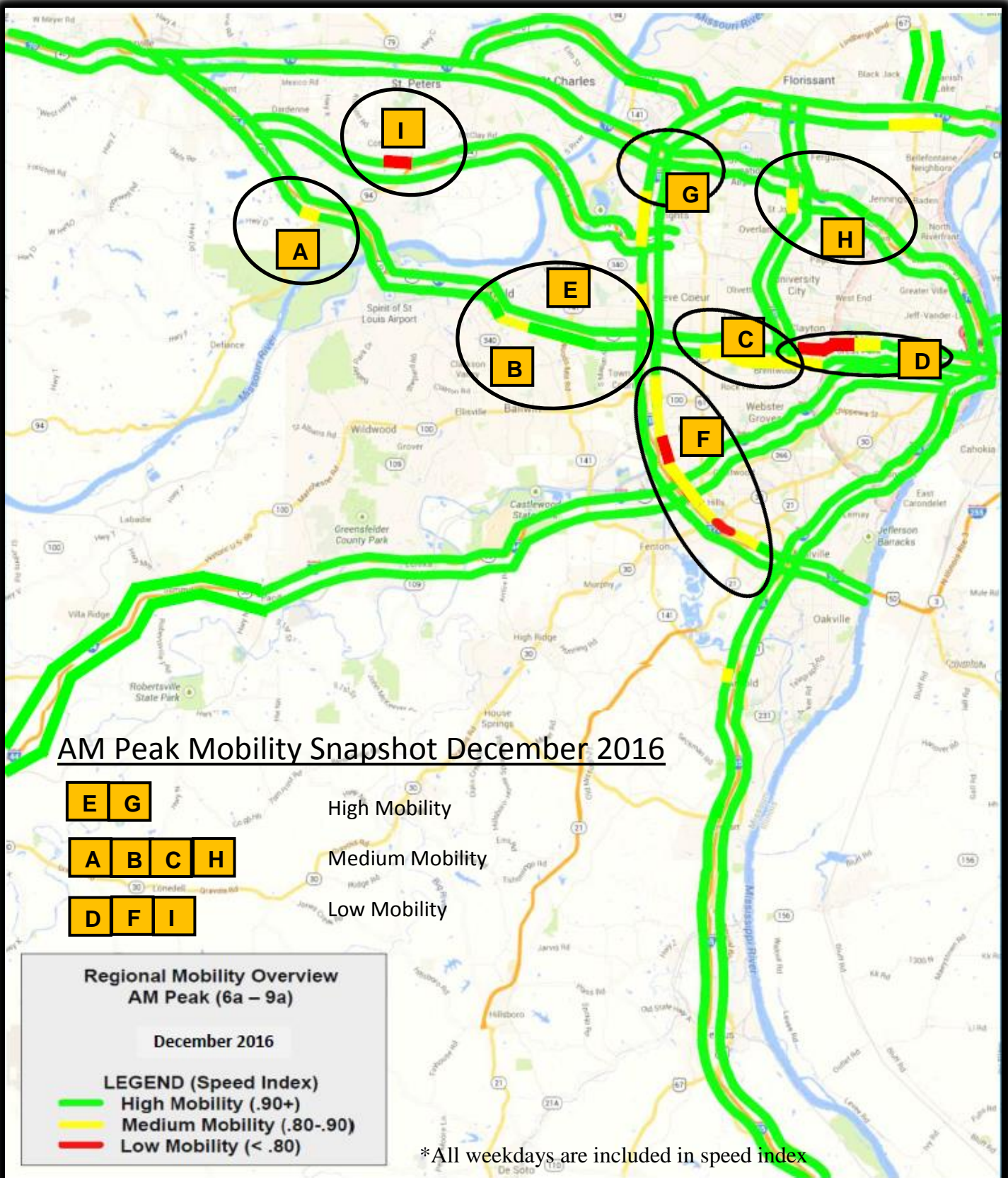
Major Impact Traffic Incidents and Mitigation



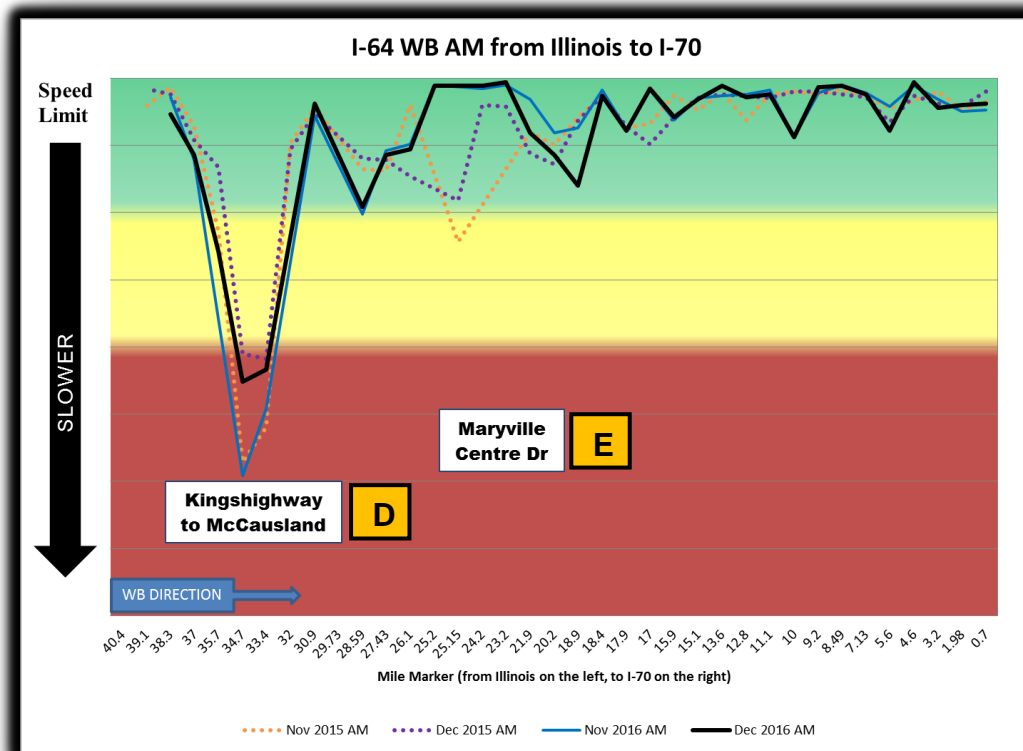
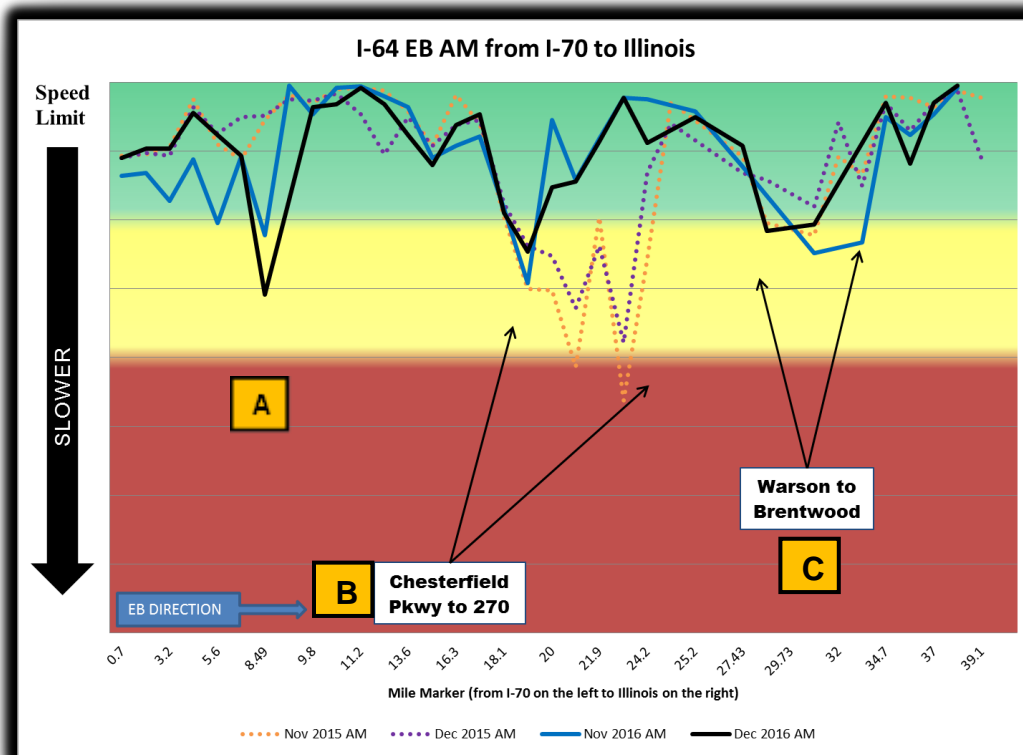
FREEWAY MANAGEMENT



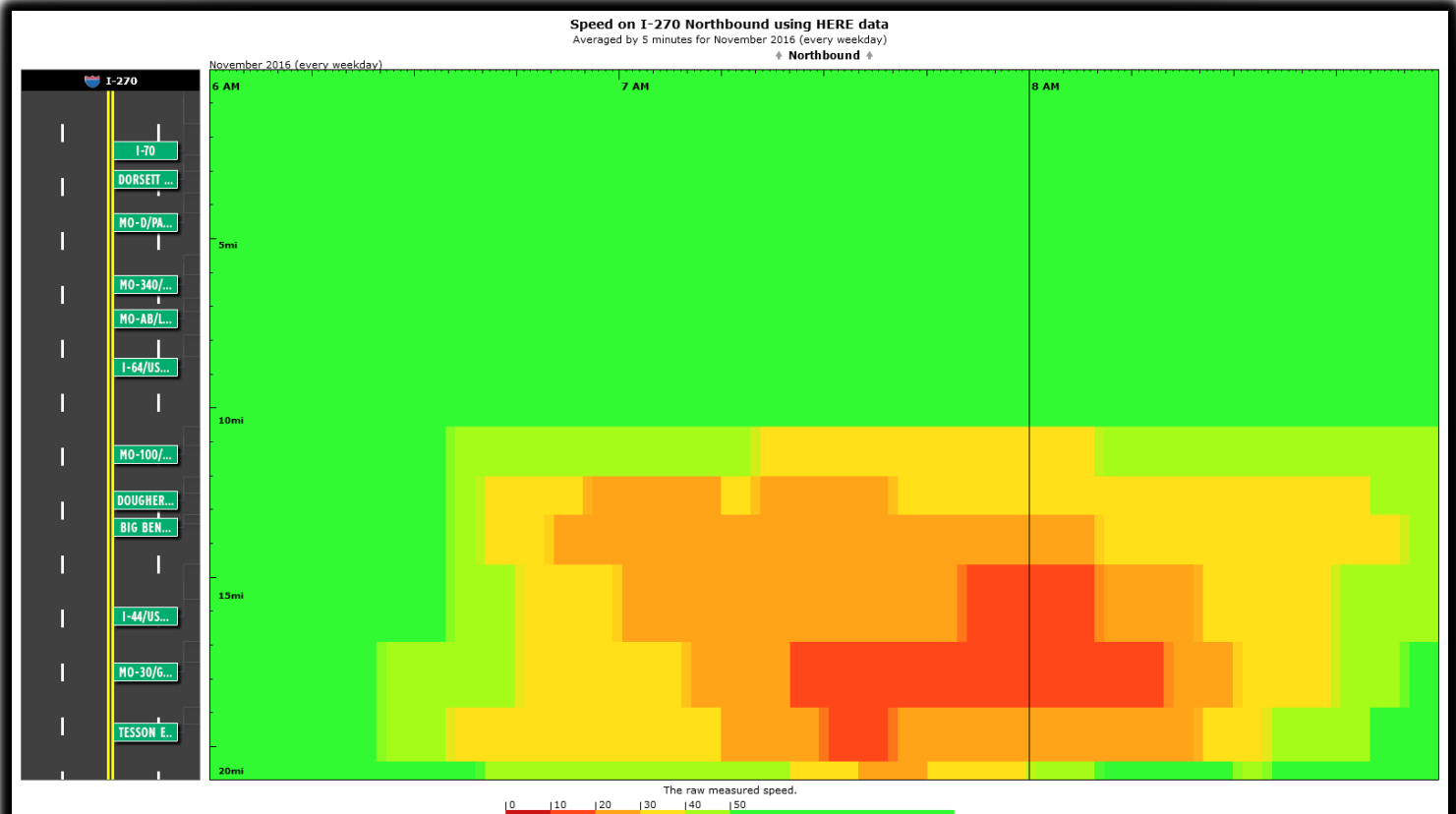
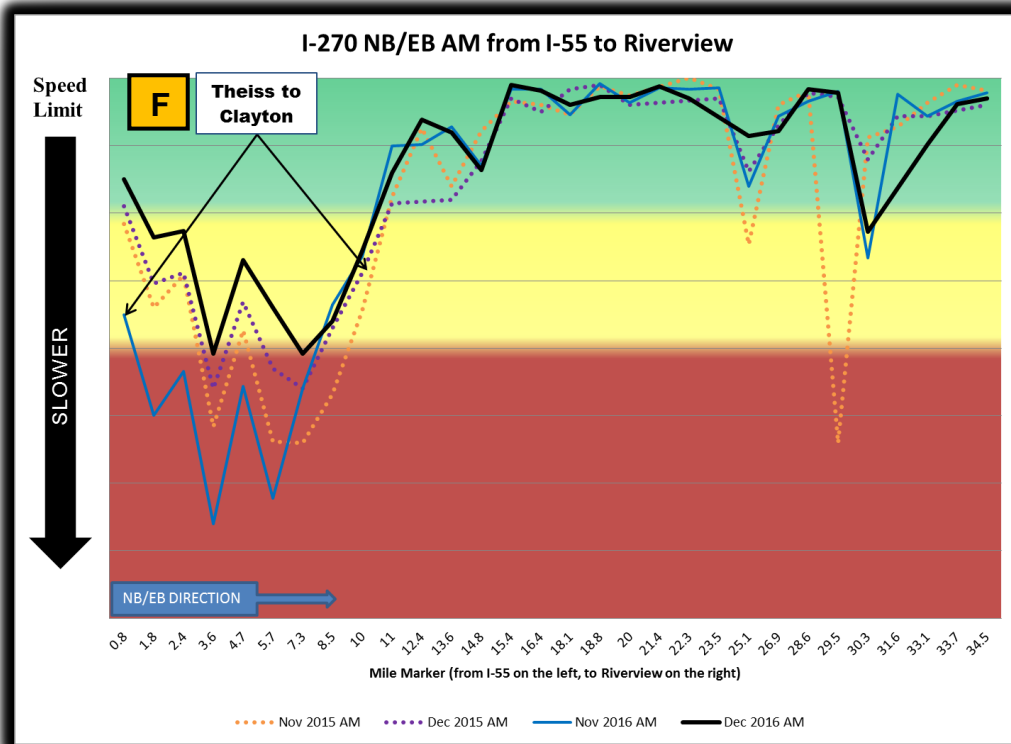
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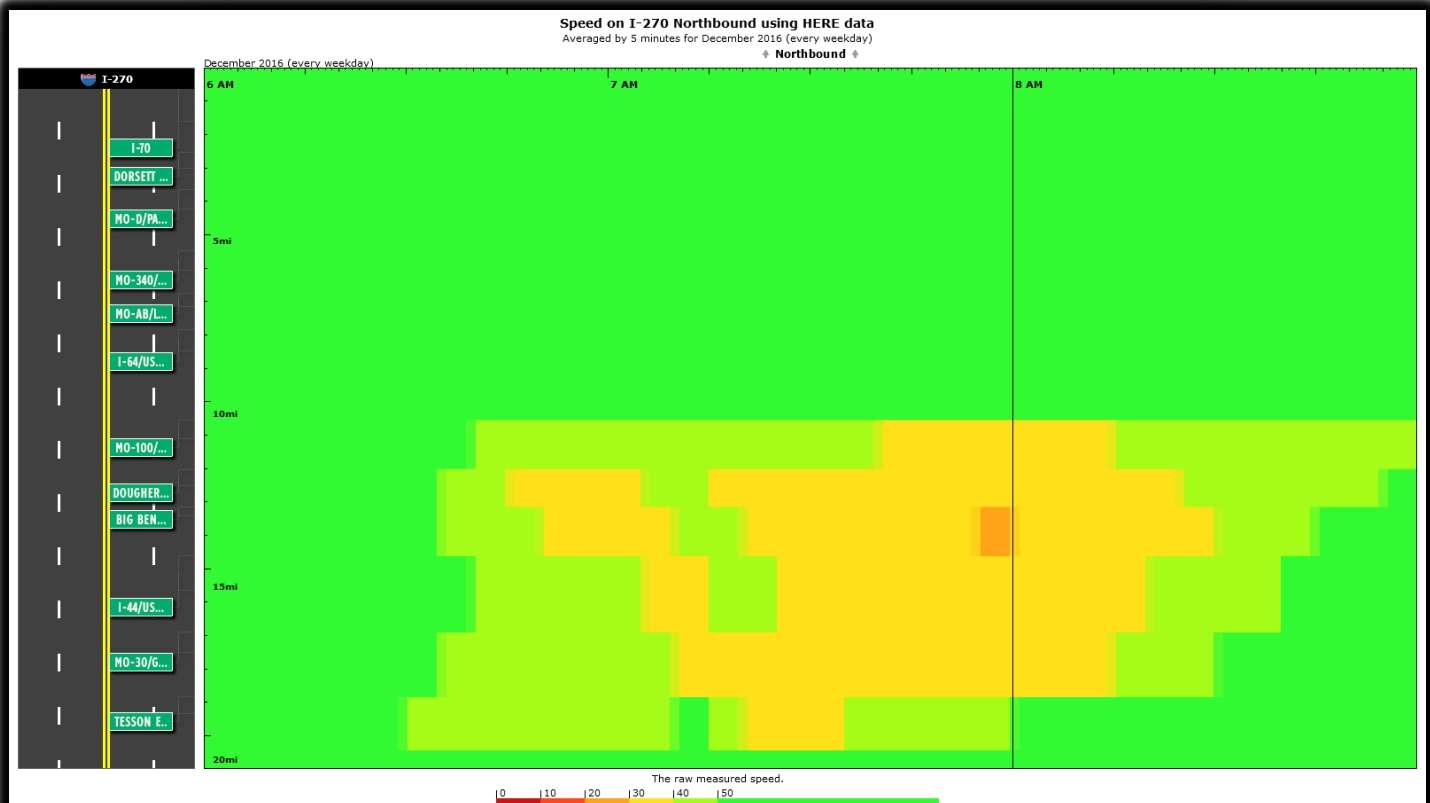
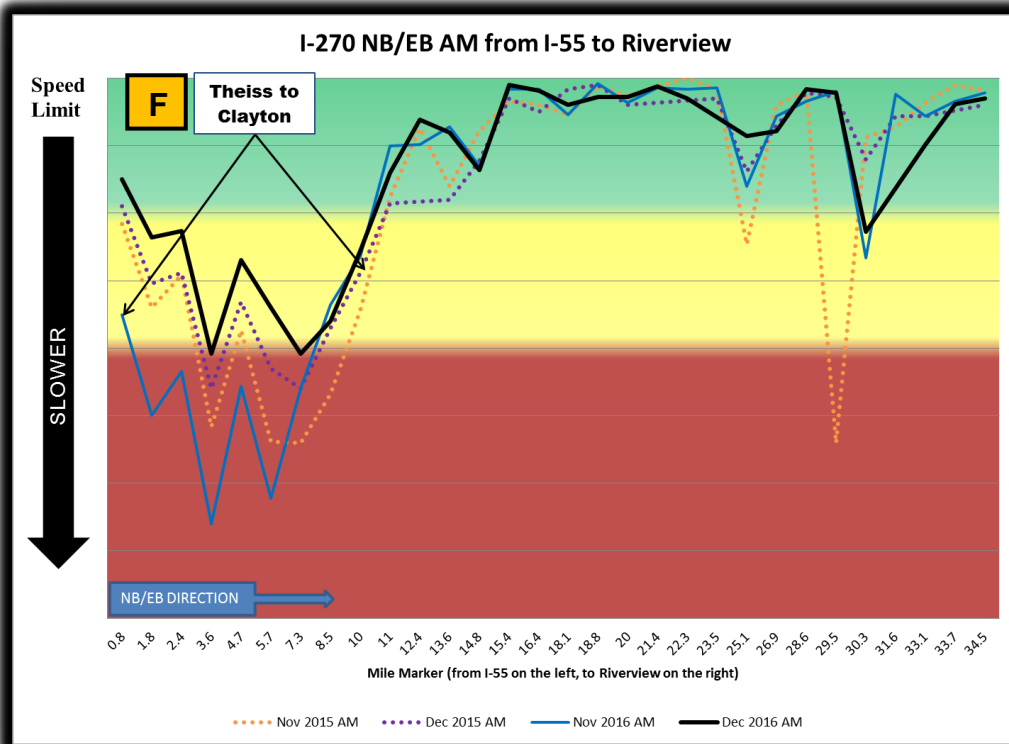
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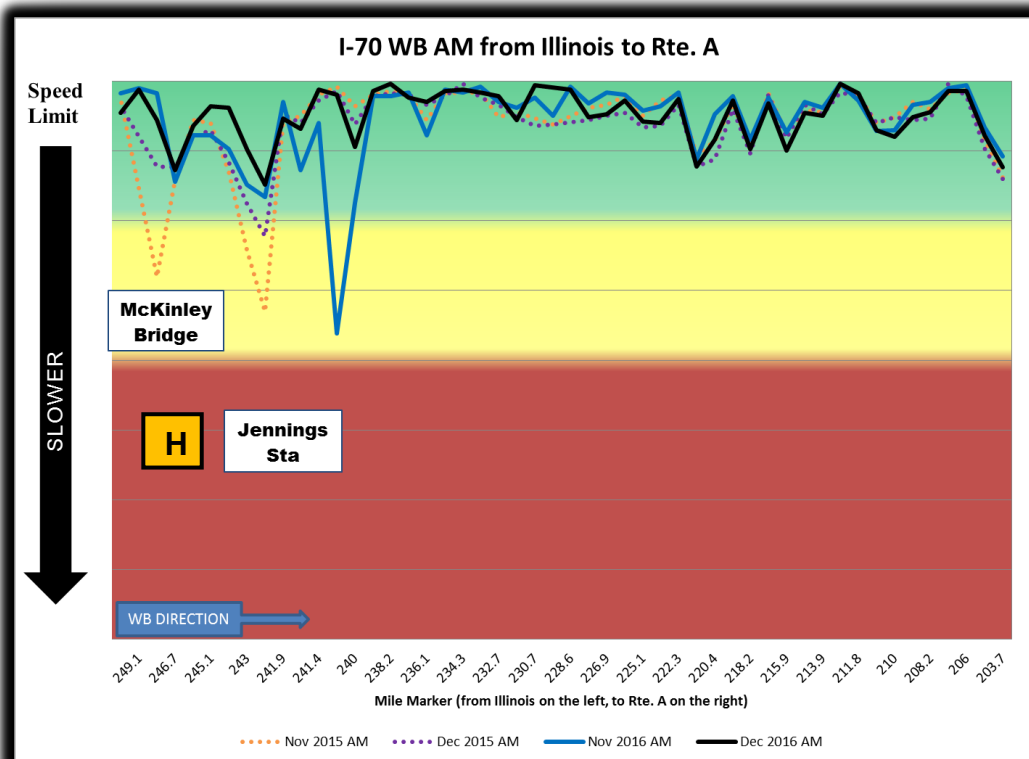
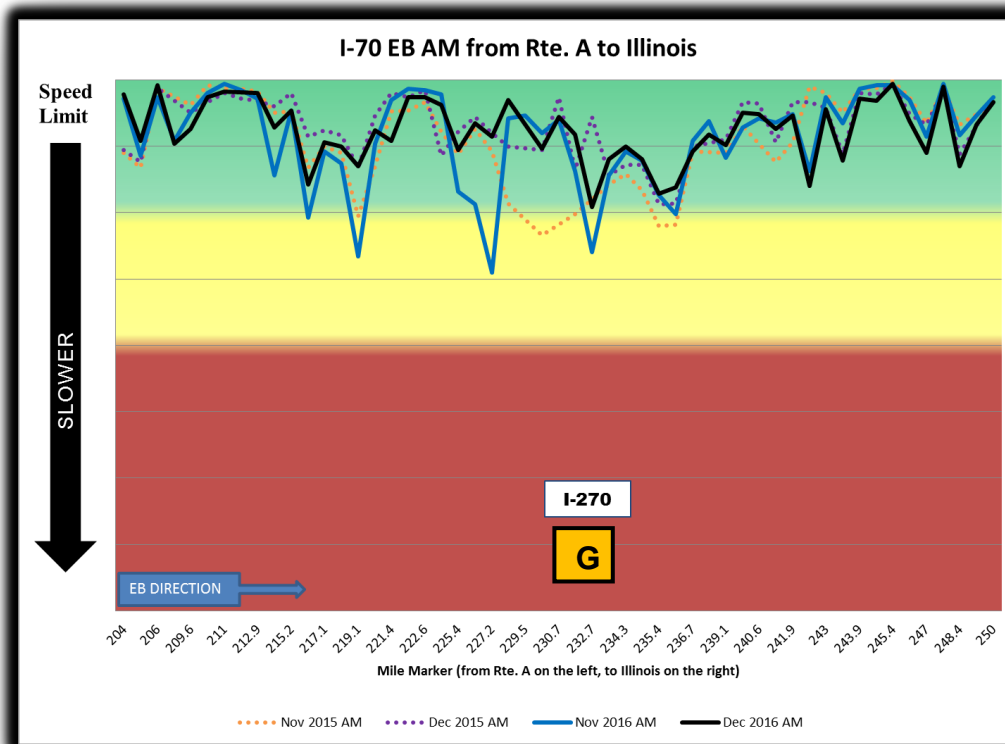
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FREEWAY MANAGEMENT

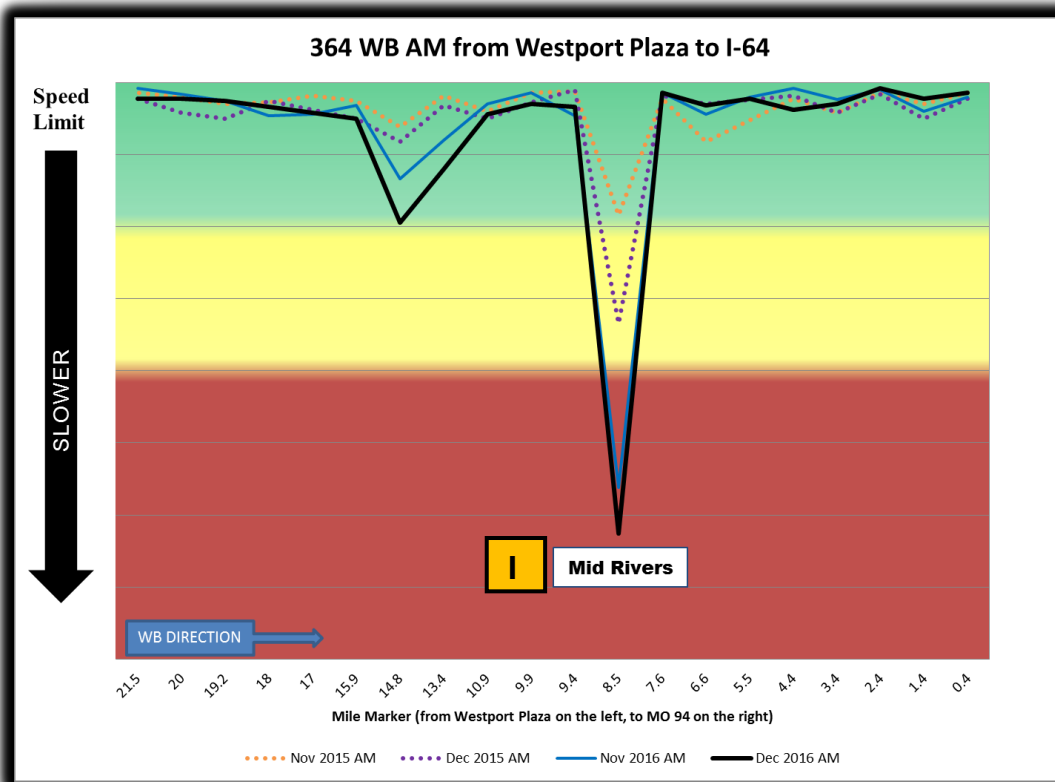


FREEWAY MANAGEMENT





FREEWAY MANAGEMENT

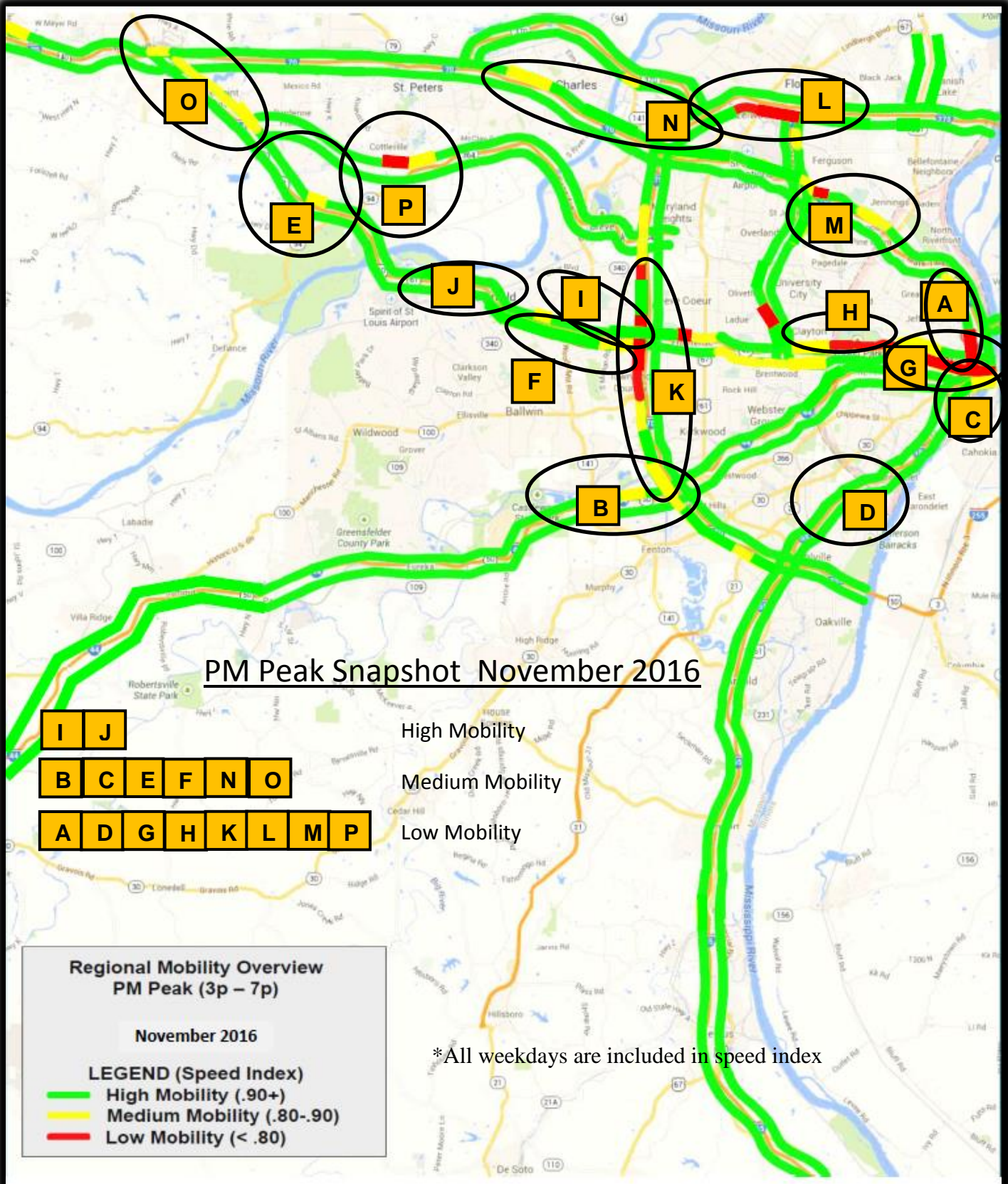




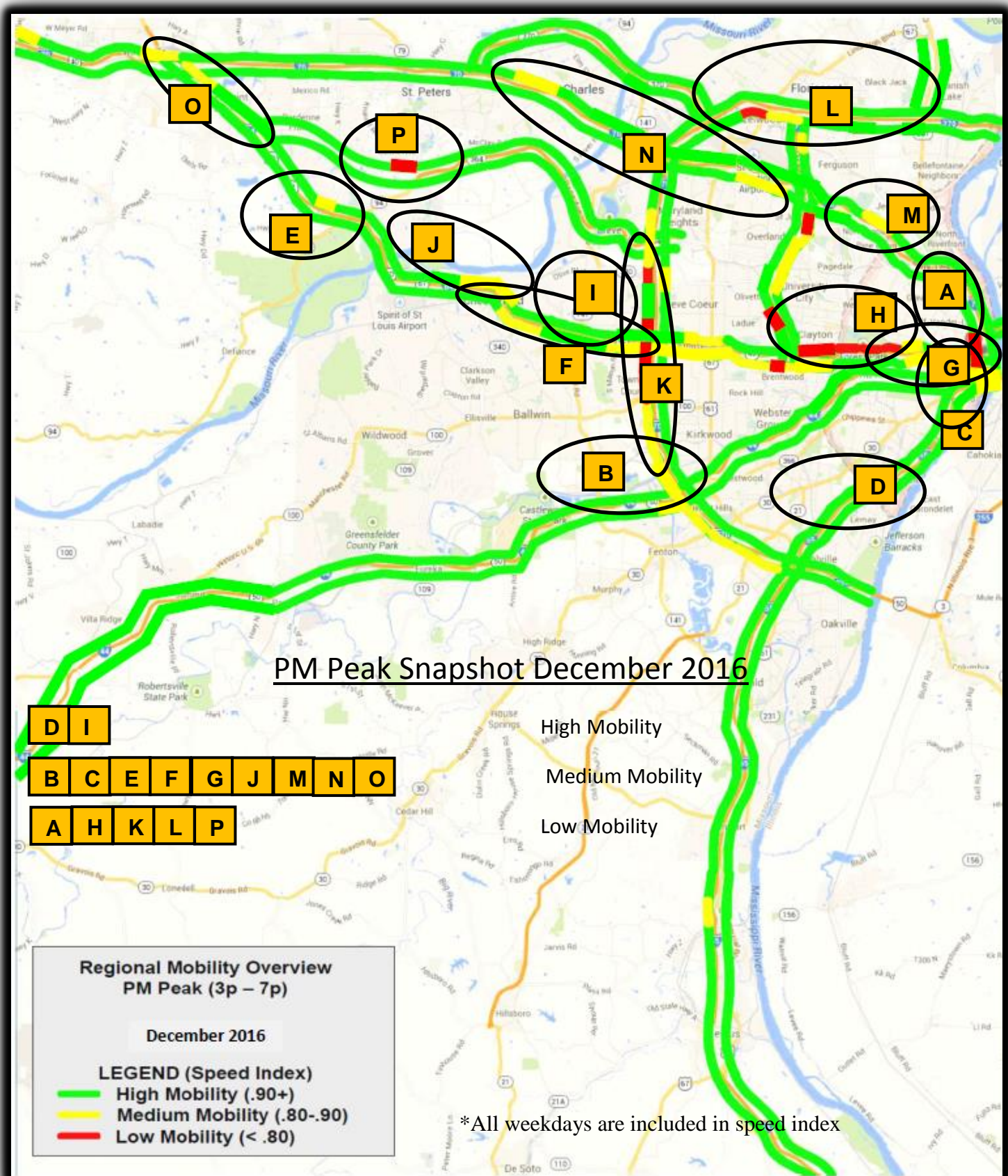
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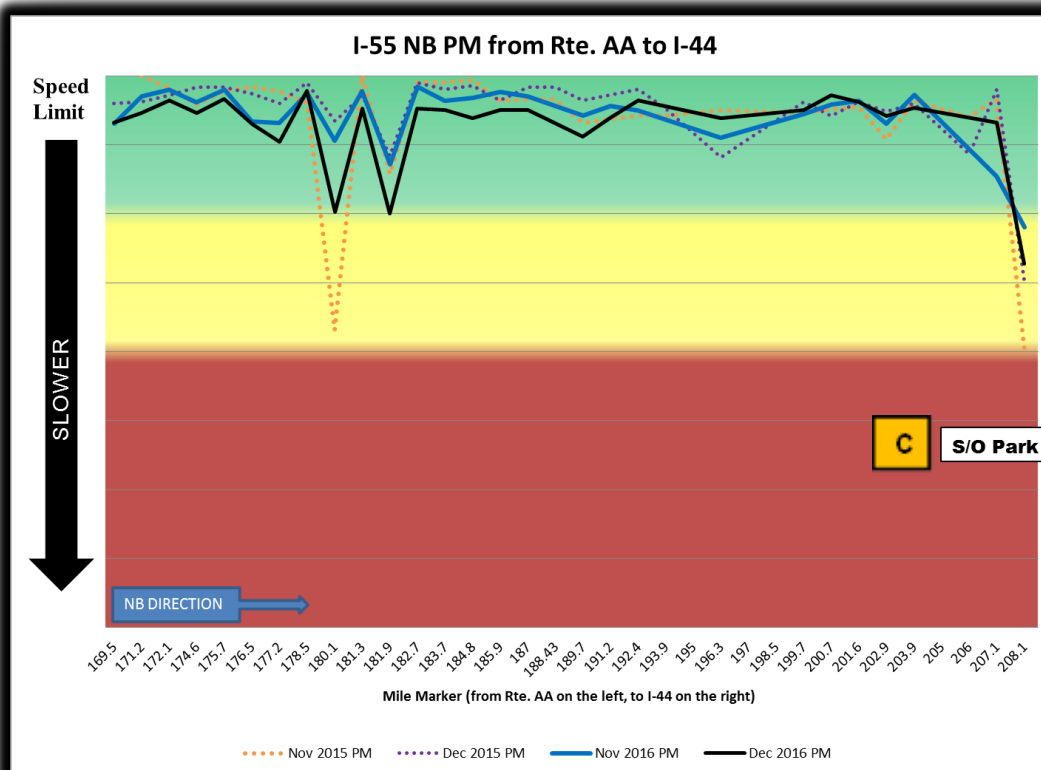
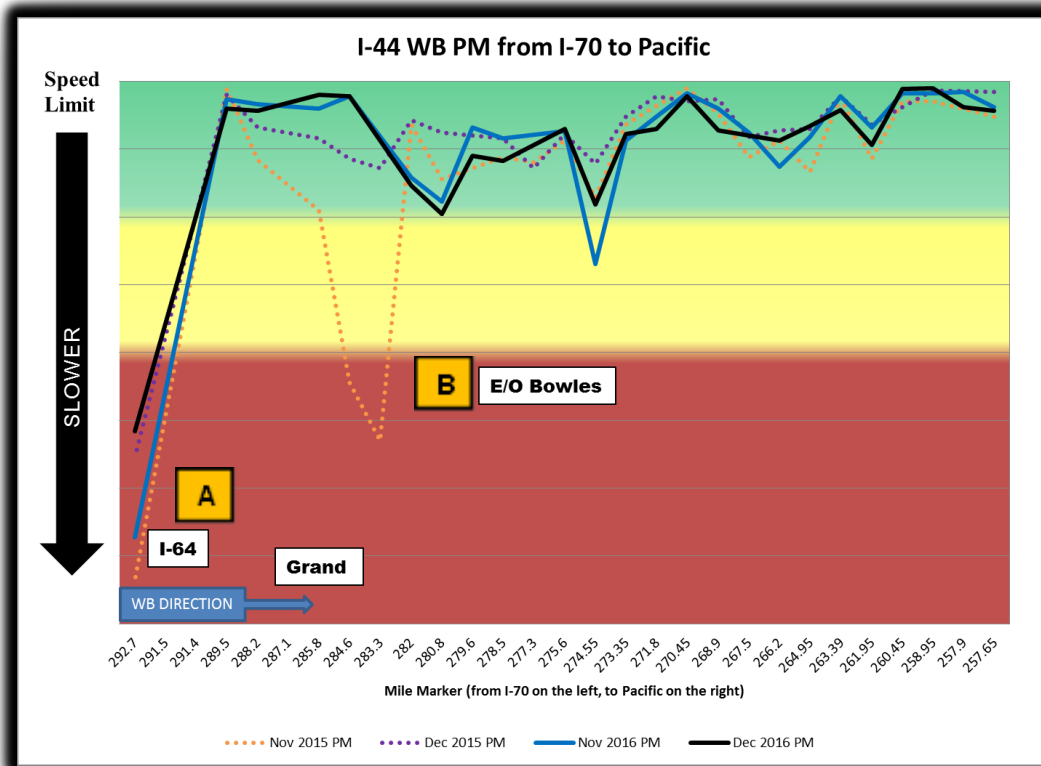
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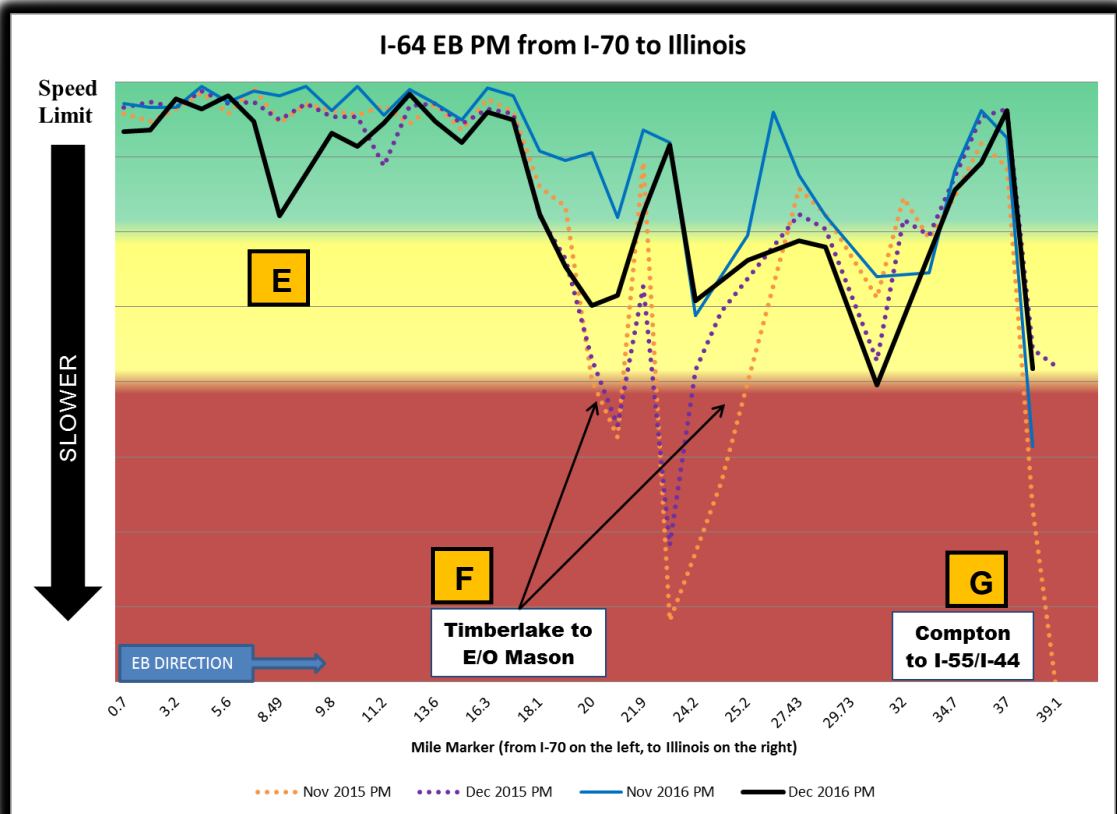
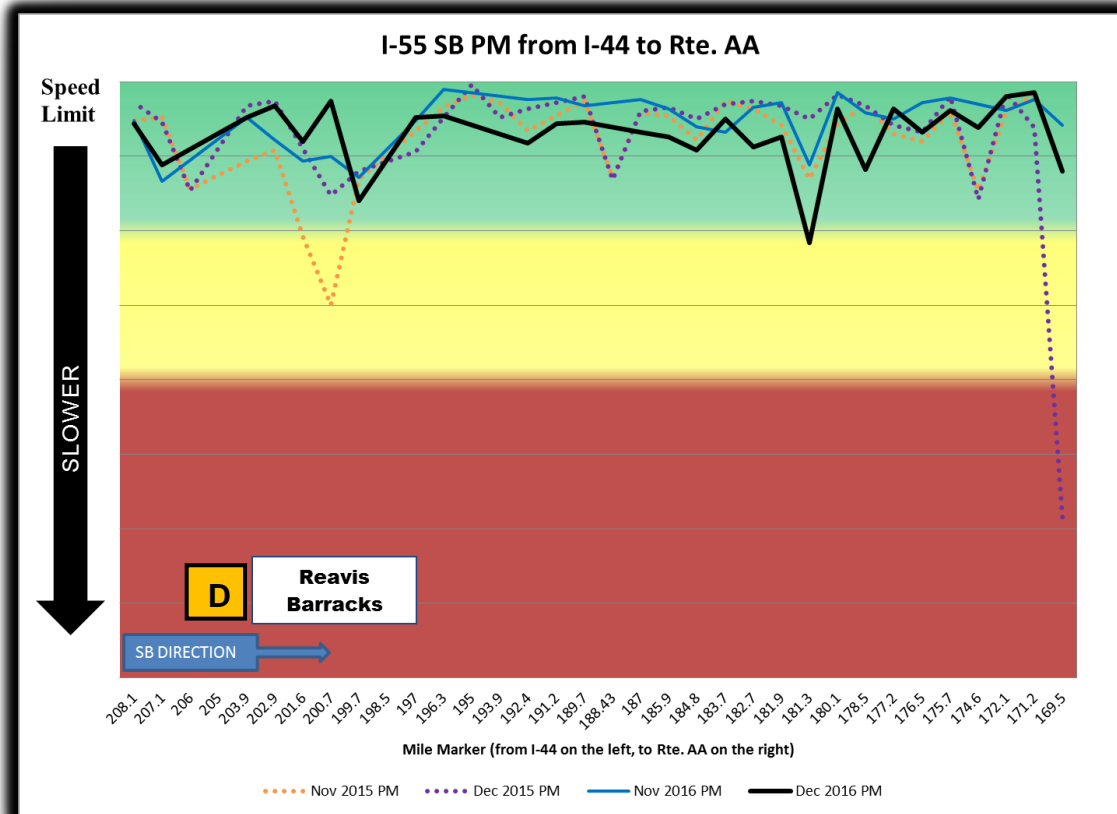
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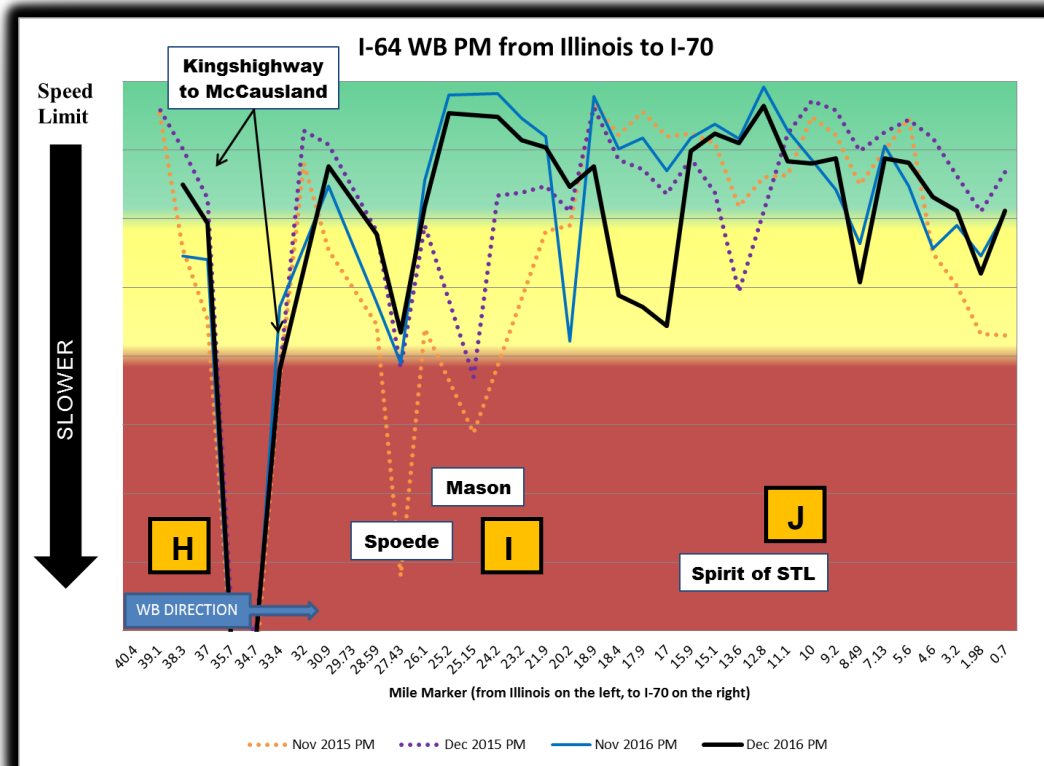


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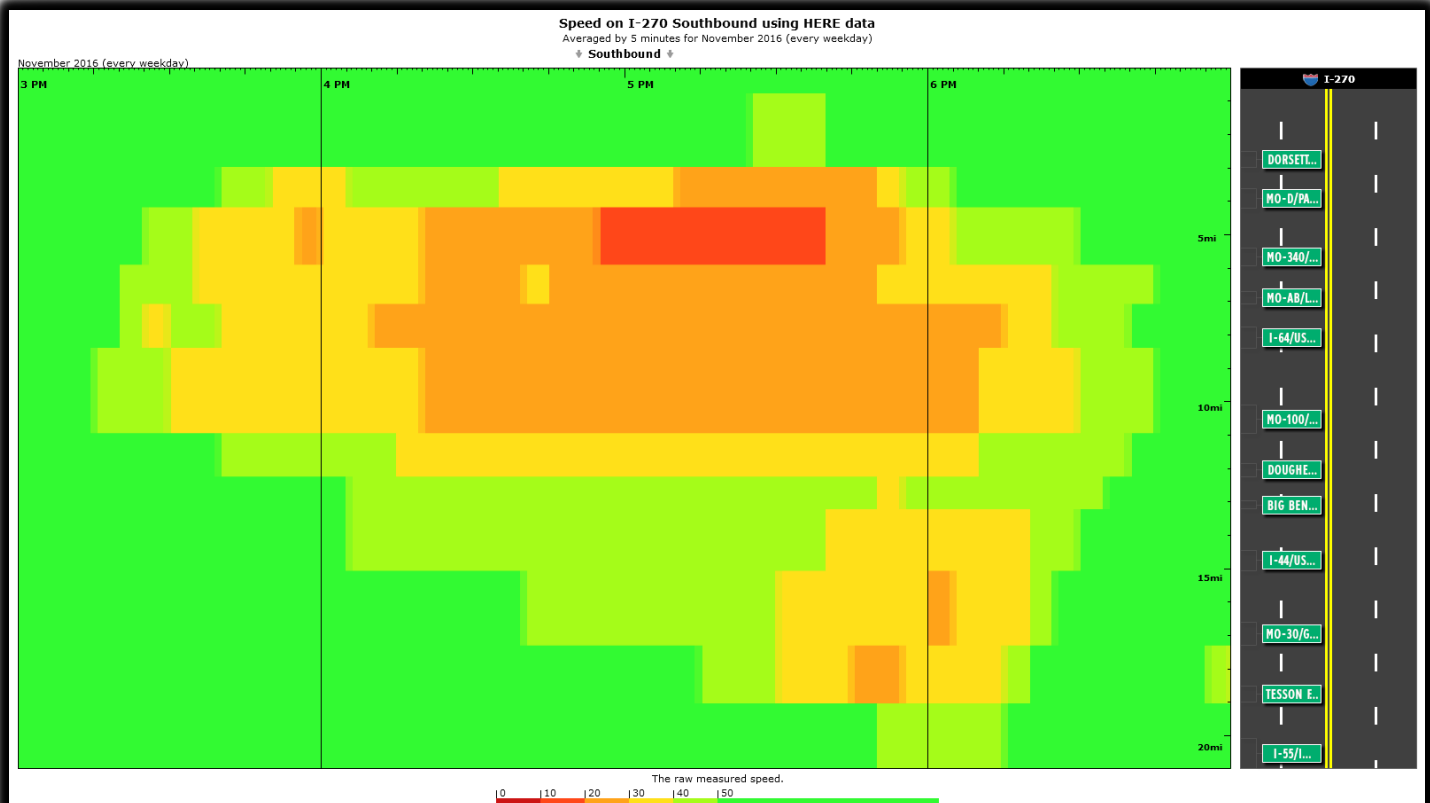
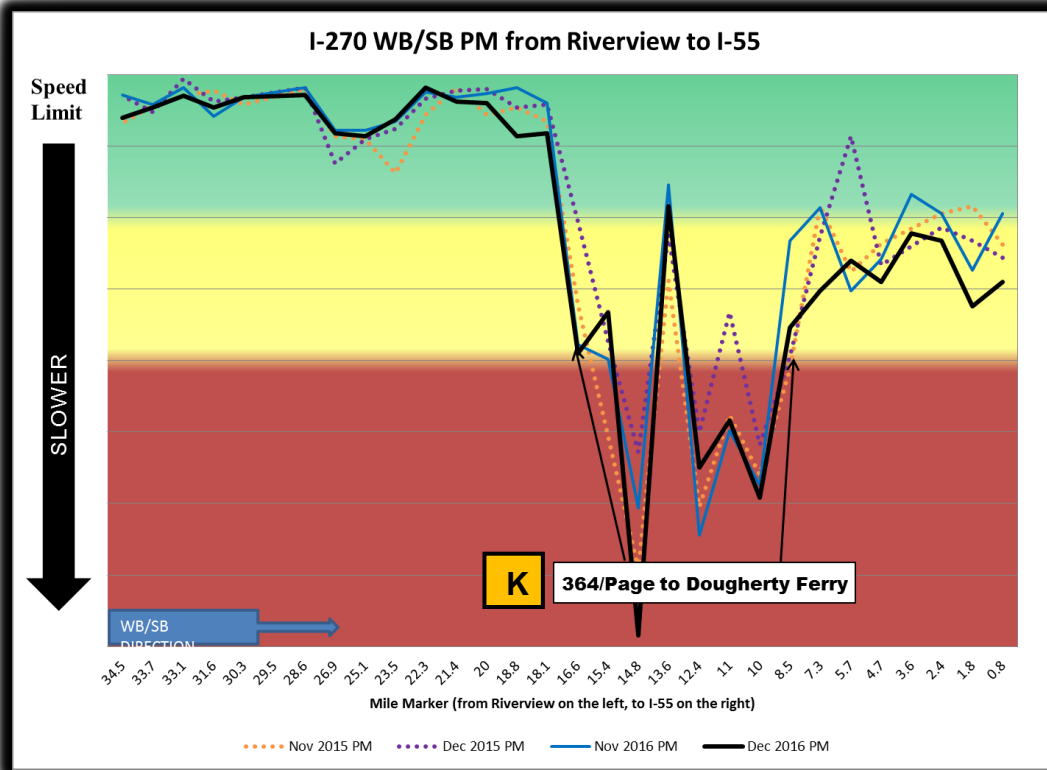




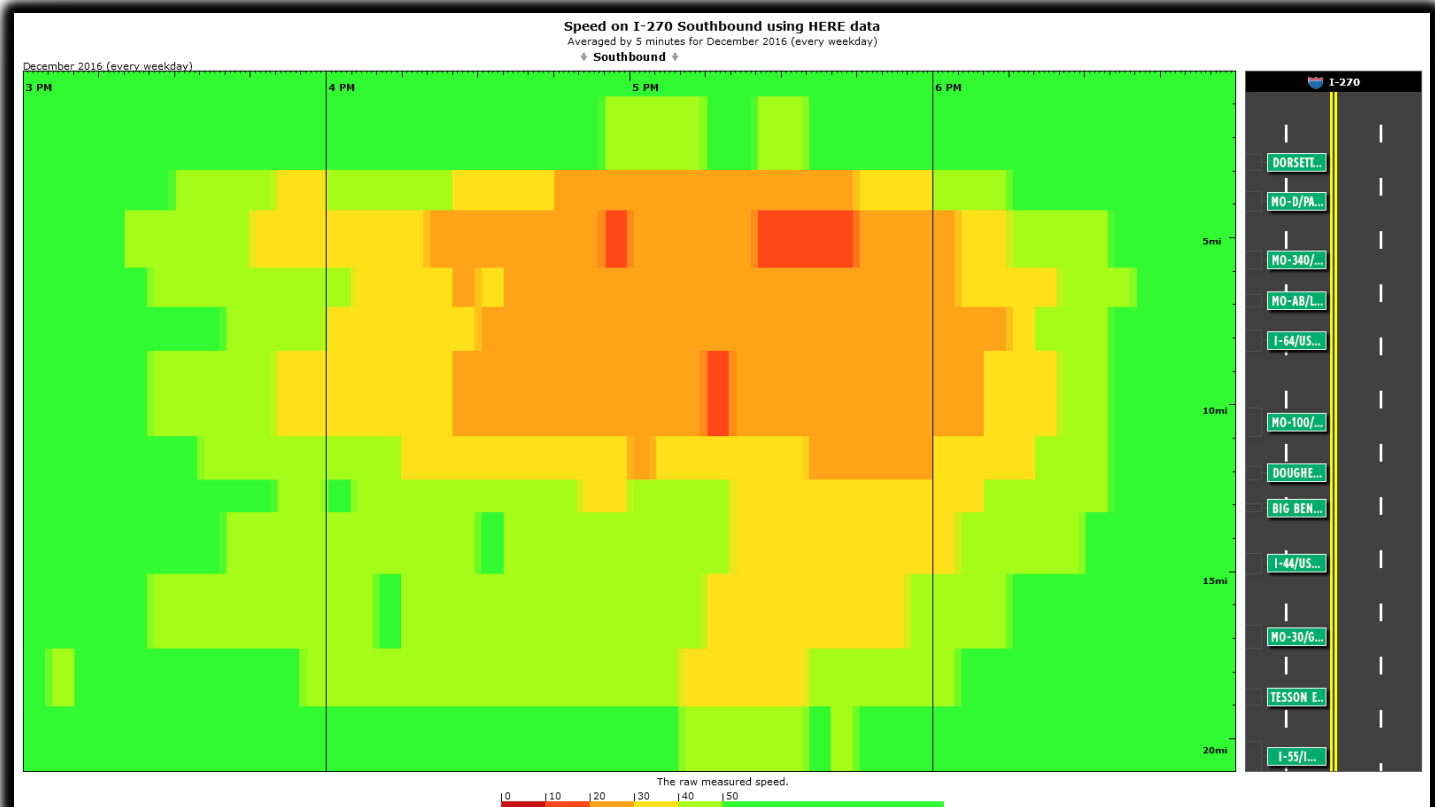
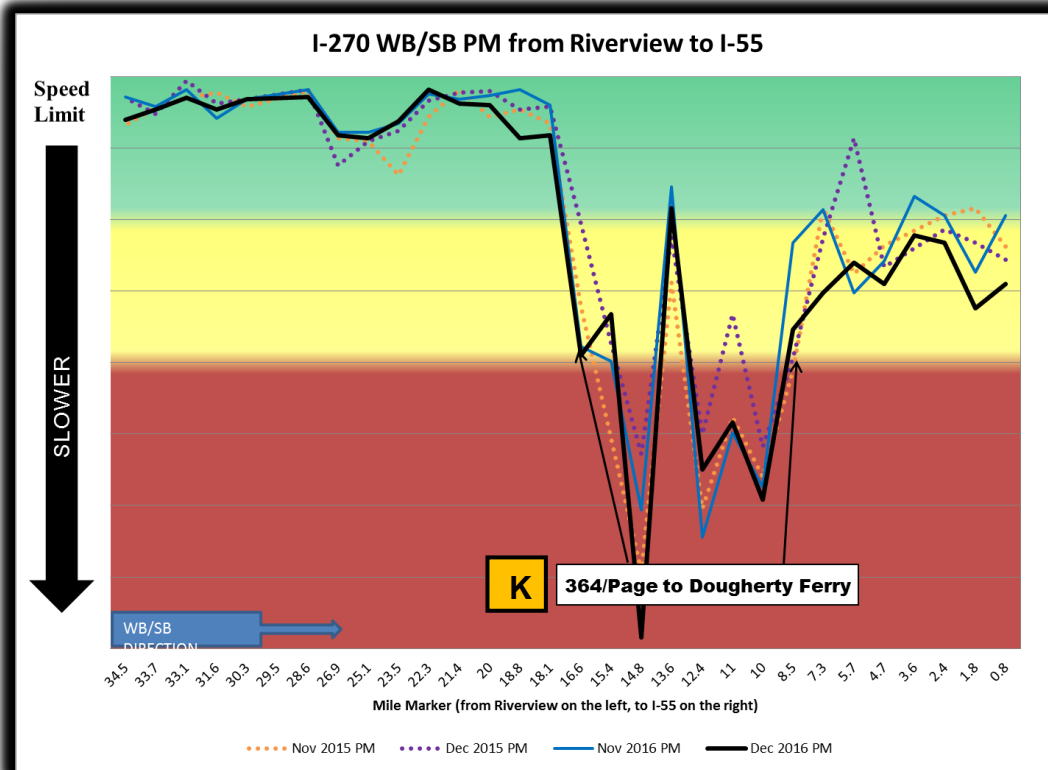
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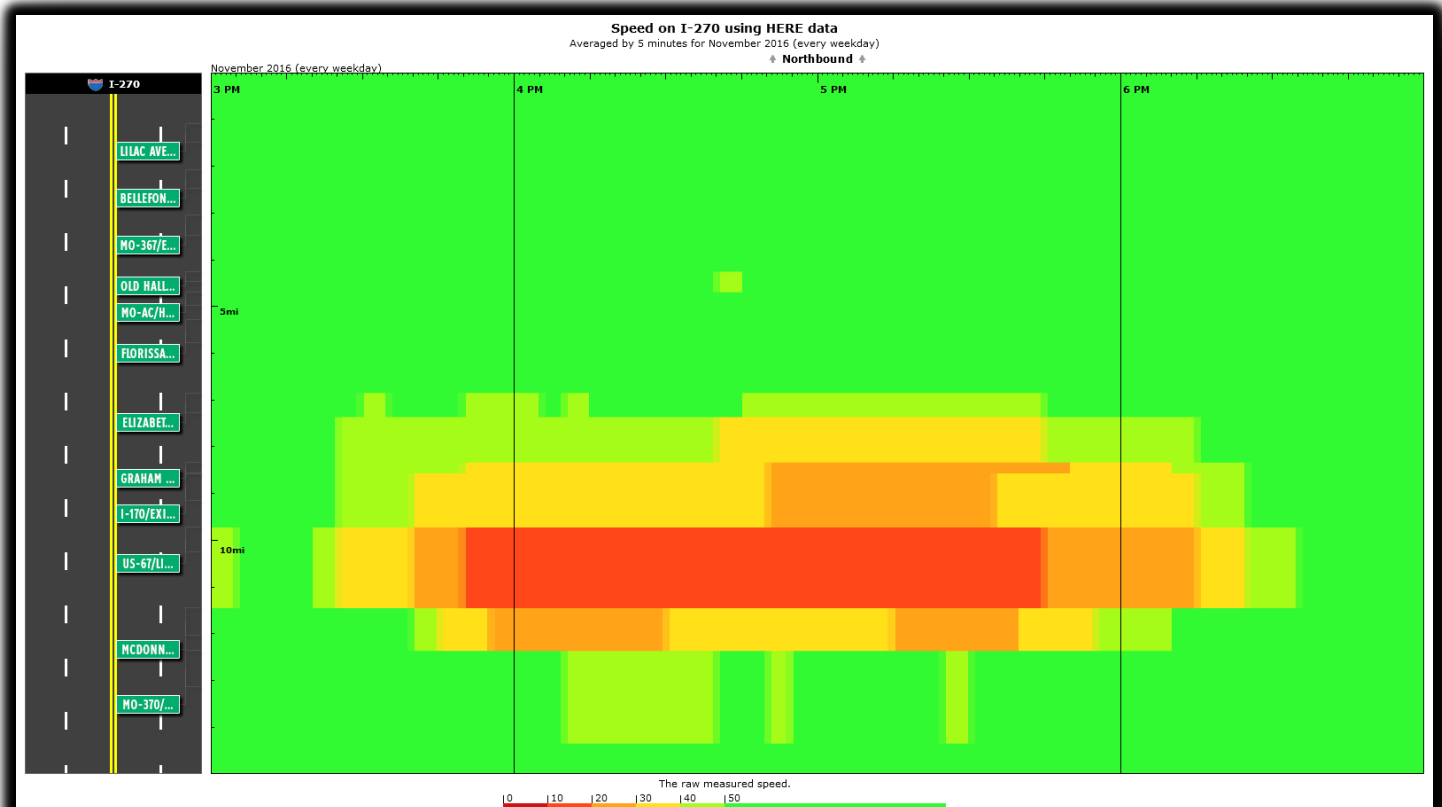
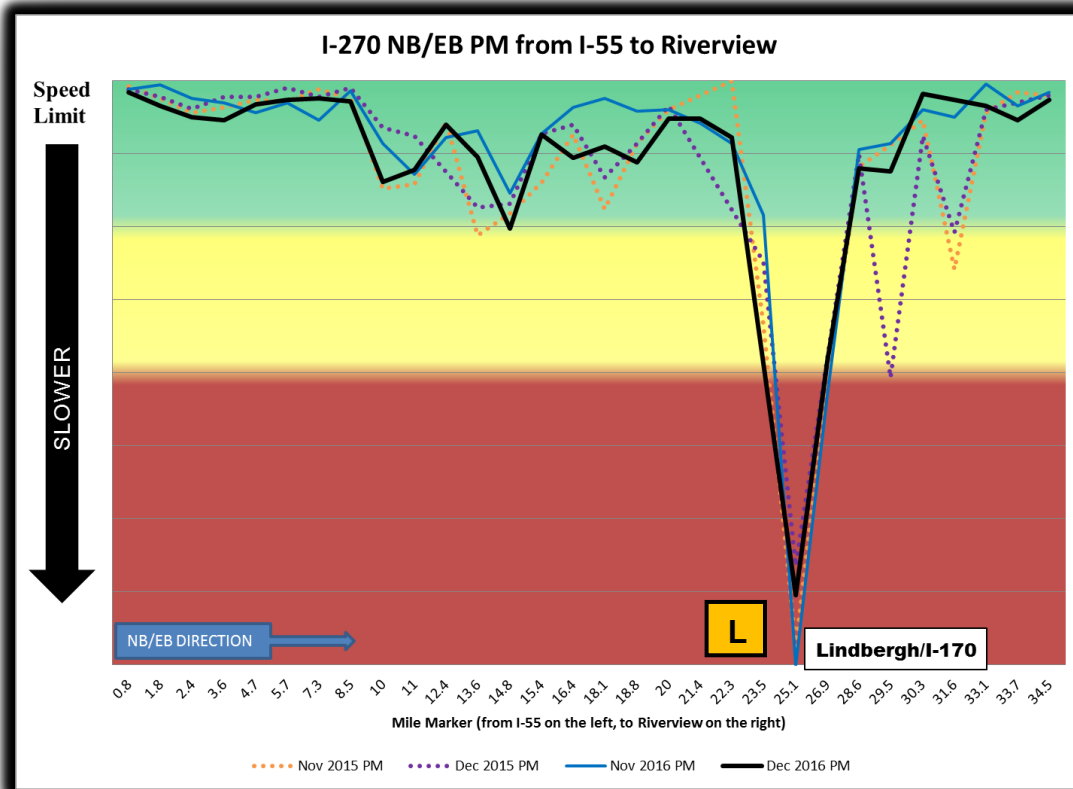
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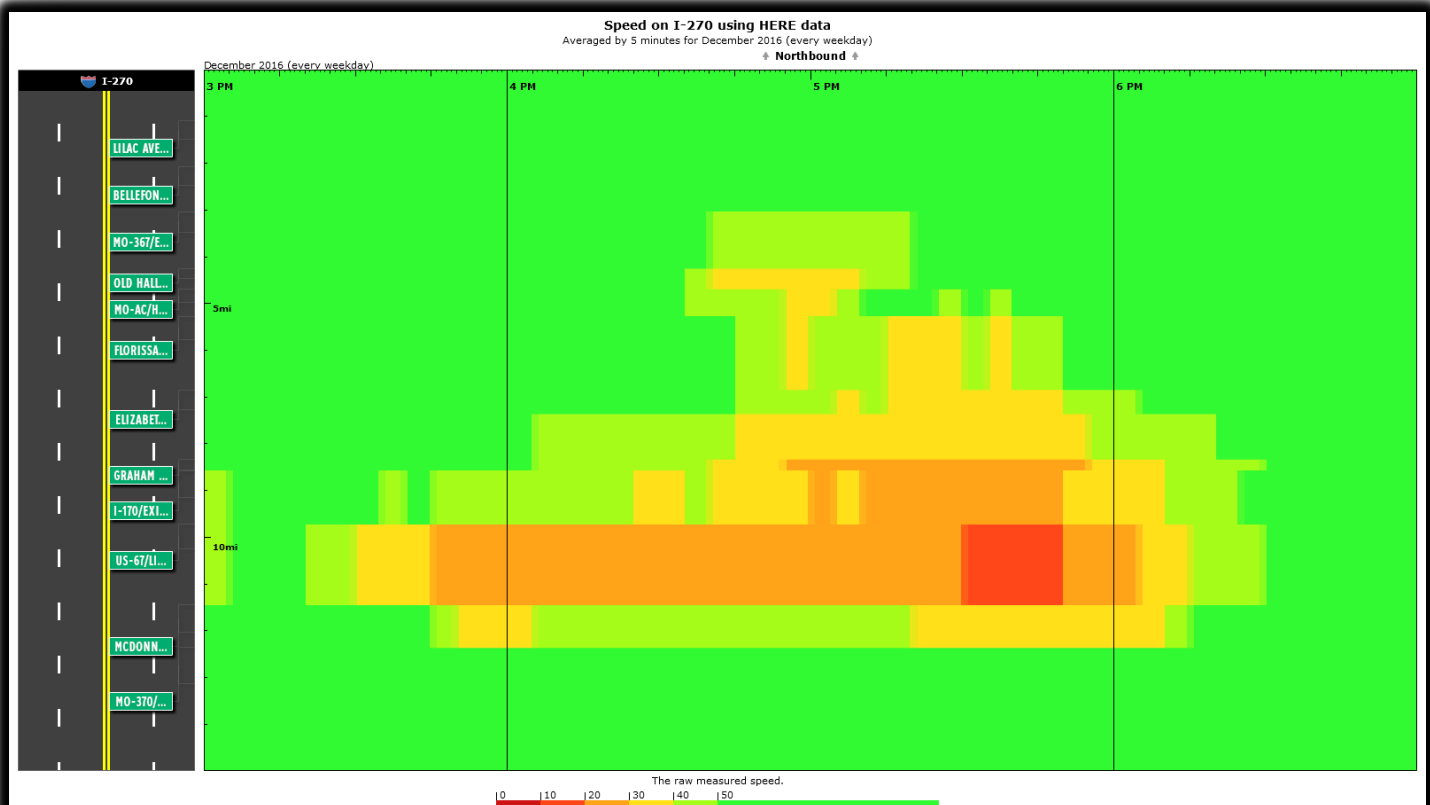
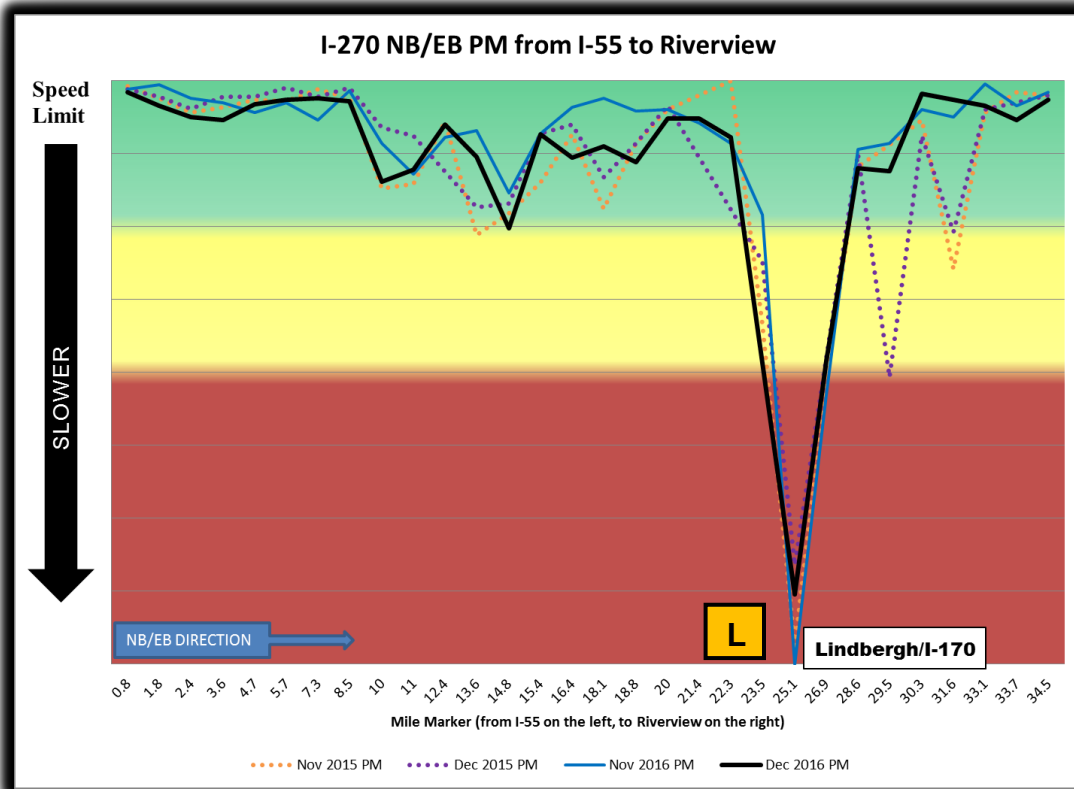
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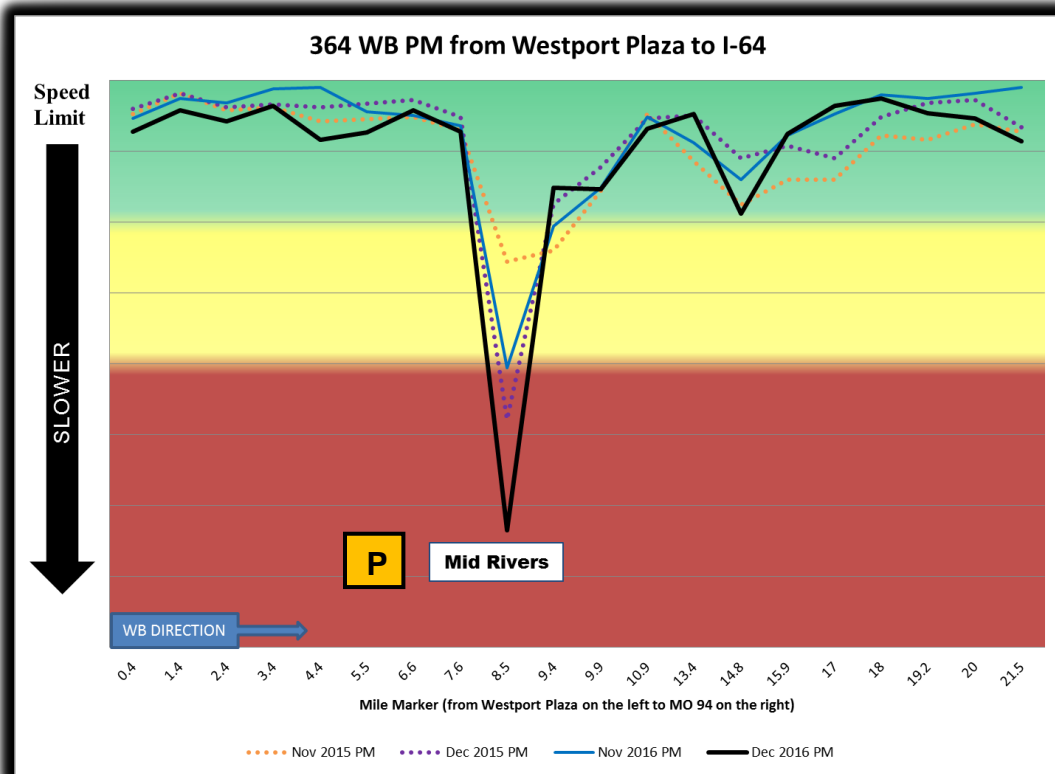
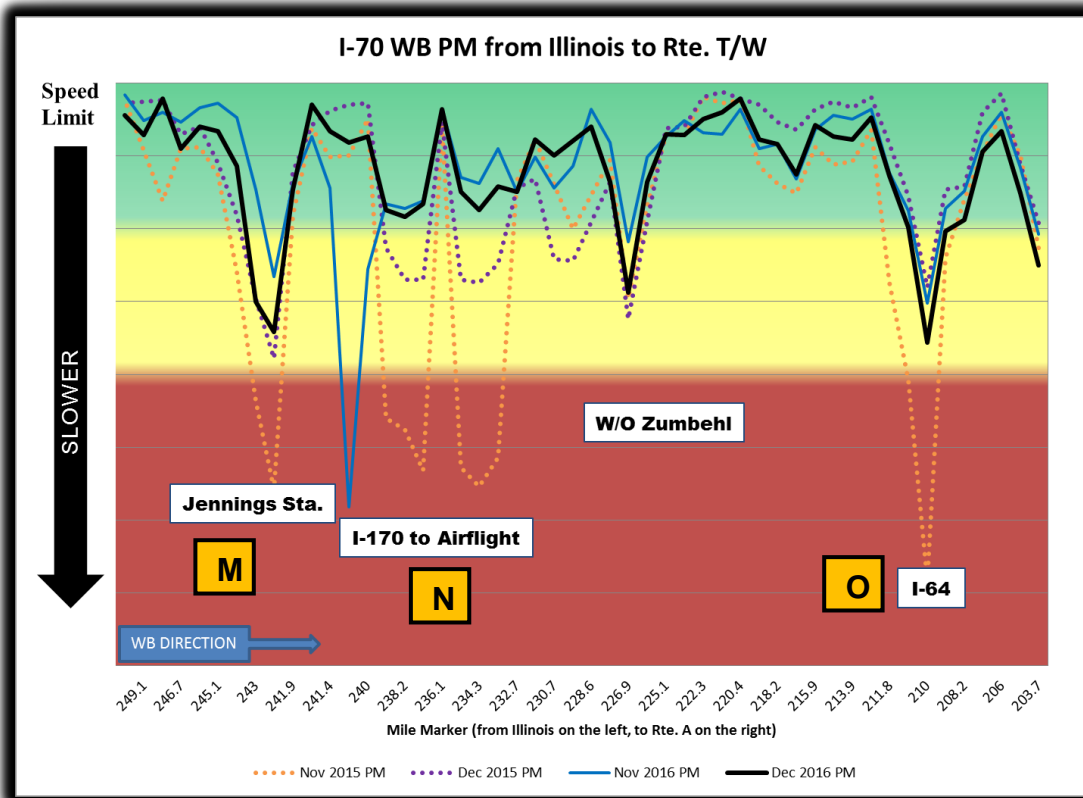
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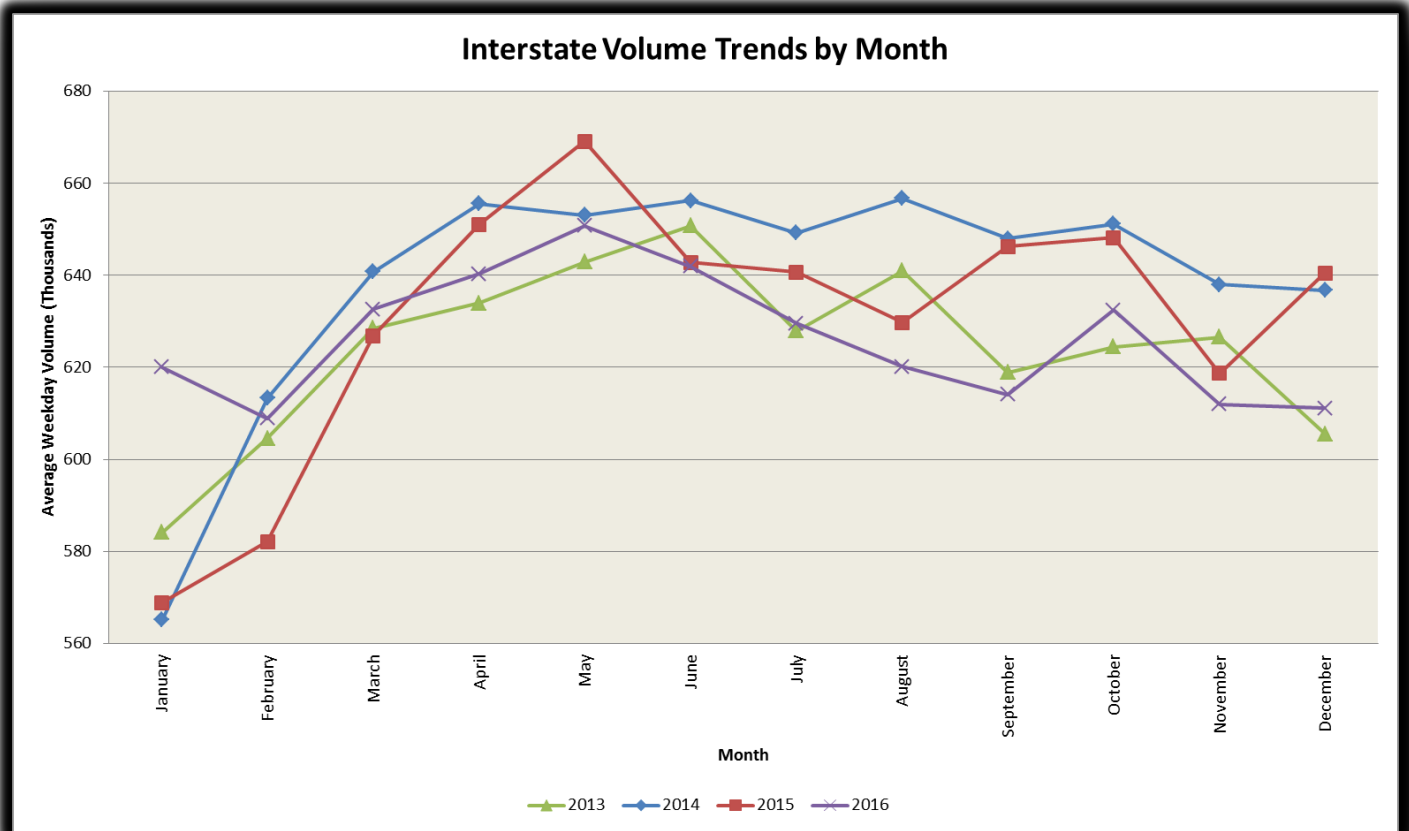


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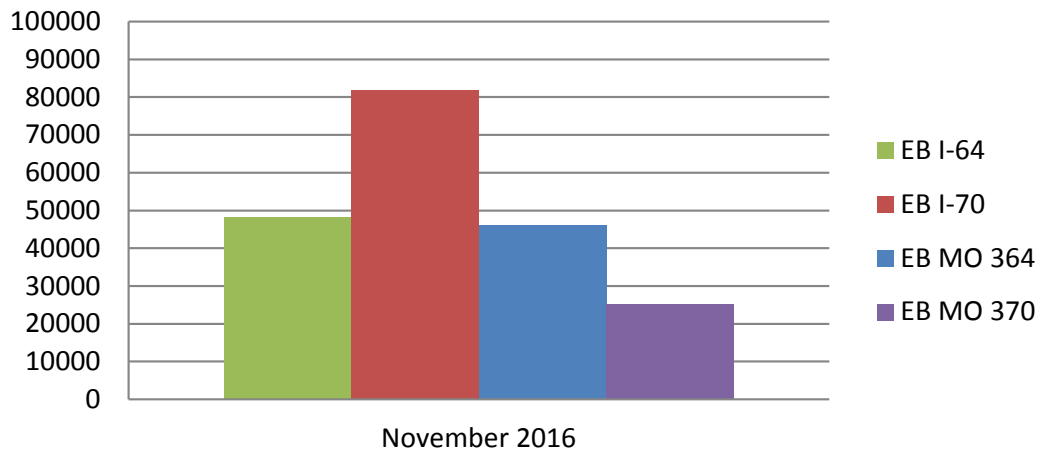
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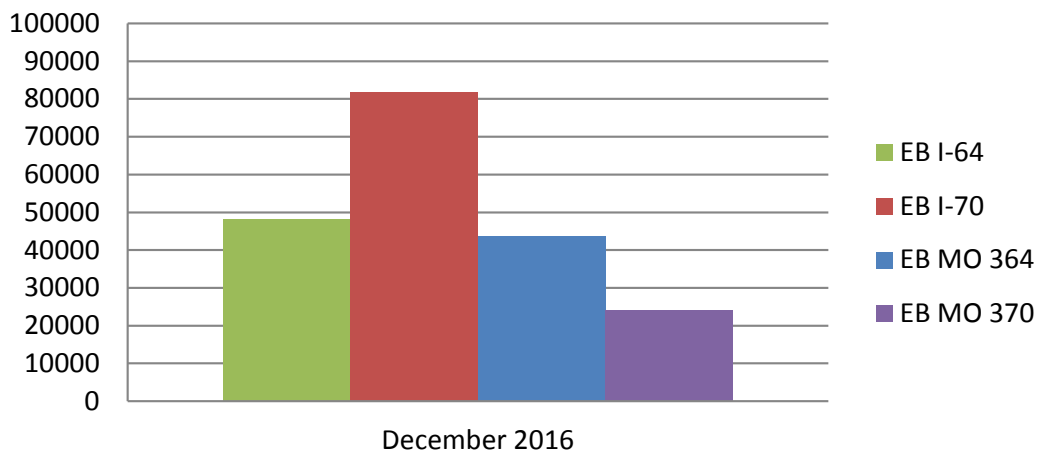


FREEWAY MANAGEMENT

Nov 2016 EB MO River Crossings Total = 201,268



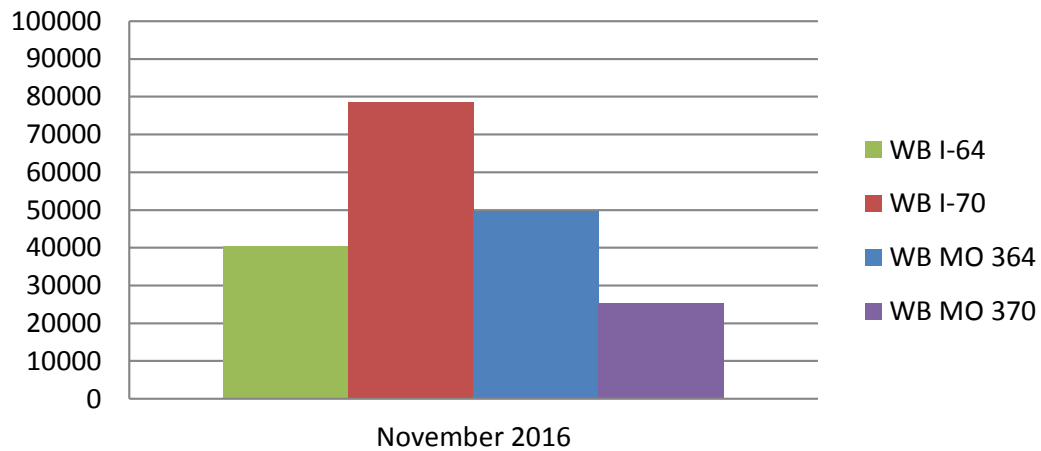
Dec 2016 EB MO River Crossings Total = 197,589



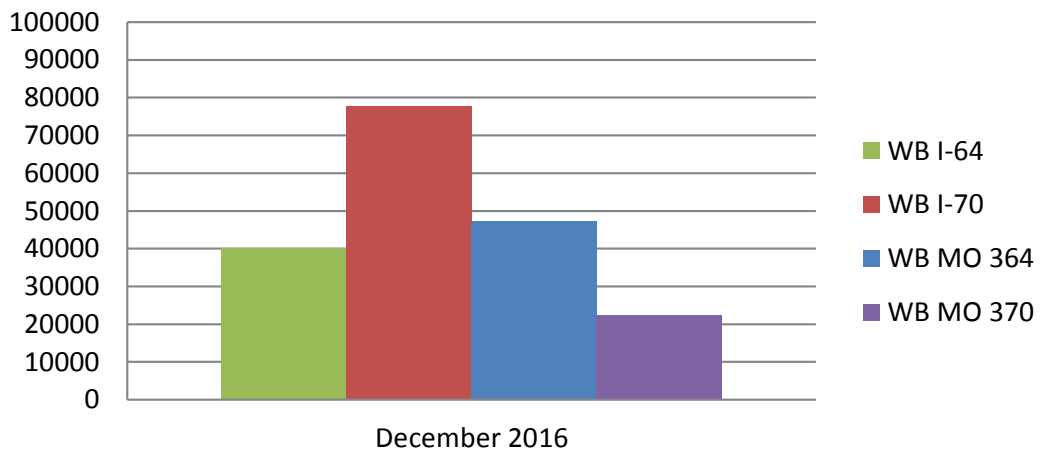


FREEWAY MANAGEMENT

Nov 2016 WB MO River Crossings Total = 193,478



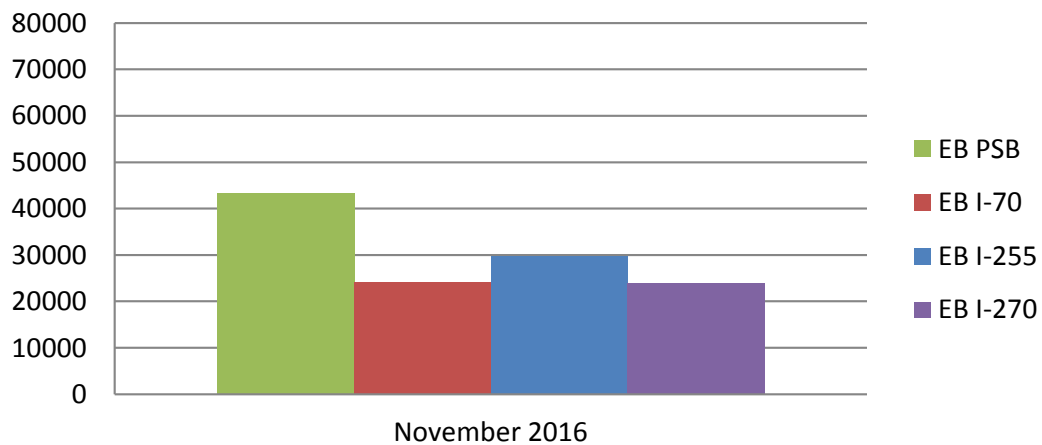
Dec 2016 WB MO River Crossings Total = 187,571



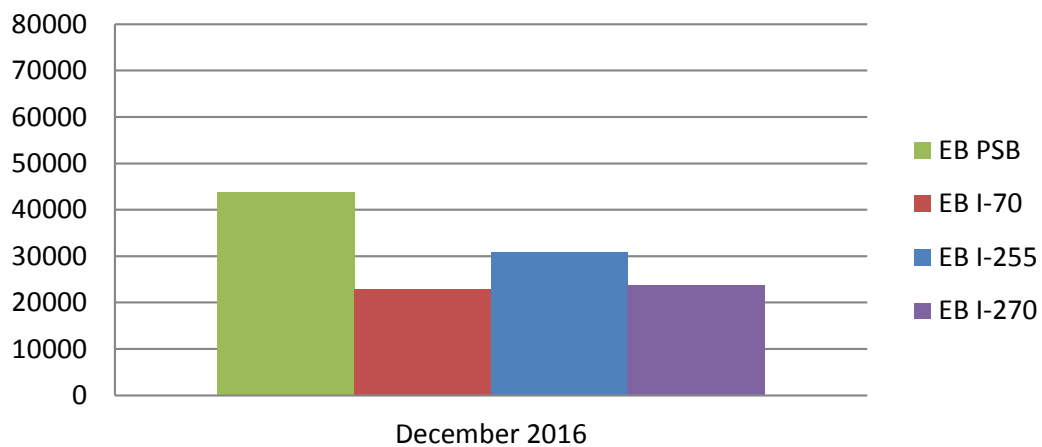


FREEWAY MANAGEMENT

Nov 2016 EB MS River Crossings Total = 121,291

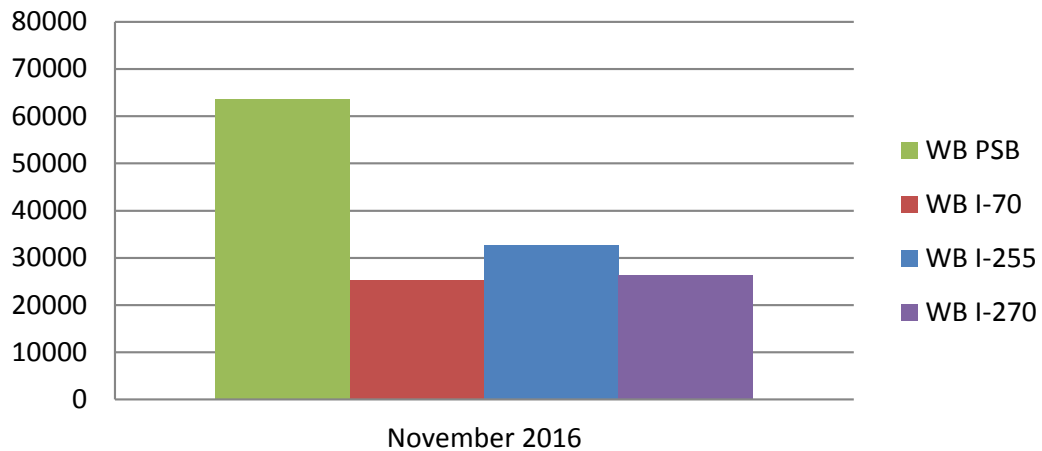


Dec 2016 EB MS River Crossings Total = 121,337

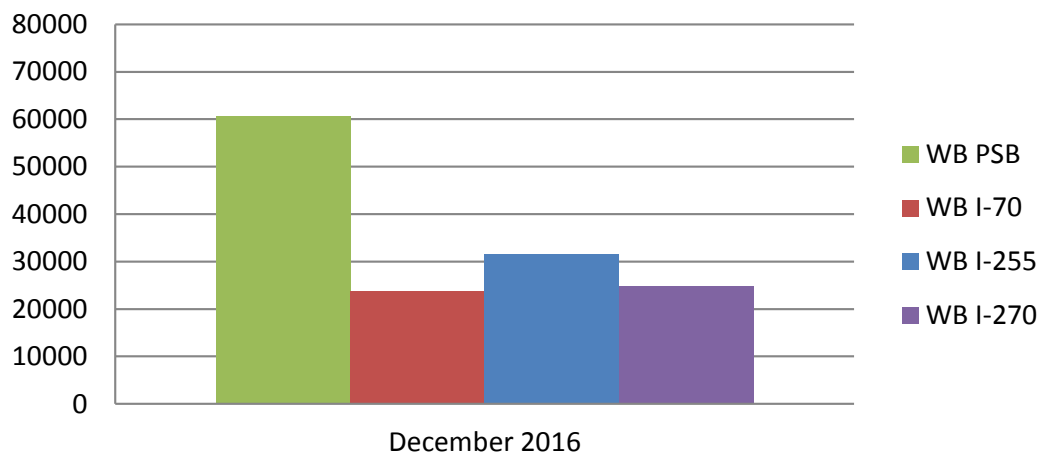




Nov 2016 WB MS River Crossings Total = 147,919



Dec 2016 WB MS River Crossings Total = 140,573



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>





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			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	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	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