



ST. LOUIS DISTRICT MOBILITY

JANUARY/FEBRUARY 2016

GUIDEPOST

- FREEWAY MOBILITY REMAINED CONSISTENT IN THE AM FROM JANUARY TO FEBRUARY BUT DECLINED IN THE PM
- FREEWAY MERGING AT INTERCHANGES CAUSED CONGESTION IN BOTH PEAKS ON I-64, I-70 AND I-270
- HEAVY RAINS IMPACTED REGIONS MOBILITY WITH FLOODING ON MANY ROADWAYS IN EARLY TO MID-JANUARY
- WINTER WEATHER CONTRIBUTED TO POWER LINES FALLING ACROSS I-270 FORCING A MAJOR CLOSURE IN BOTH DIRECTIONS DURING AM RUSH ON FEBRUARY 24, 2016
- AN INCREASE IN PEDESTRIANS BEING STRUCK ON ROADWAYS HAS FORCED NUMEROUS LANE CLOSURES AND ADDITIONAL TRAVEL TIMES WITHIN THE DISTRICT



WINTER WEATHER CONTRIBUTED TO POWER LINES FALLING ACROSS I-270 FORCING A MAJOR CLOSURE IN BOTH DIRECTIONS DURING AM RUSH ON FEBRUARY 24, 2016.

MOBILITY SNAPSHOT

FREEWAY MOBILITY

JANUARY TO FEBRUARY COMPARISON:
AM CONSISTENT / PM DECLINED

FREEWAY AVERAGE 24 HOUR VOLUMES

JAN 2015 → JAN 2016: + 9.0%
FEB 2015 → FEB 2016: + 0.3%

MAJOR INCIDENTS

JANUARY 2016: 5 → FEBRUARY 2016: 9

AVERAGE INCIDENT DURATION JAN → FEB

LANE CLEARANCE: 28:53 → 31:59
INCIDENT CLEARANCE: 29:26 → 32:59
(MIN: SEC)

MAJOR IMPACT WORK ZONES

JANUARY → 0 FEBRUARY → 0

MODERATE IMPACT WORK ZONES

JANUARY → 1 FEBRUARY → 1

ZONING IN

TMS WORK ZONES

◆ JANUARY 2016: 240

◆ FEBRUARY 2016: 146

WORK ZONE BREAKDOWN:

- ◆ MAJOR: 2 - 0.9%
- ◆ MODERATE: 0 - 0.0%
- ◆ MINOR: 226 - 99.1%

WORK ZONE CRASHES: 5



GATEWAY GUIDE
TRANSPORTATION MANAGEMENT CENTER

AECOM



WORK ZONES

TMC Observed Work Zones January - February 2016			
January		February	
Level of Travel Time Impact	Number of Work Zones	Level of Travel Time Impact	Number of Work Zones
Major Impact	0	Major Impact	2
Moderate Impact	0	Moderate Impact	0
Minor Impact	120	Minor Impact	106
Total	120	Total	108

*Impact Levels described in Data Key

SL Mobility Rating:

- ♦ Jan 2016: 93%
- ♦ Feb 2016: 100%
- ♦ Goal: 91%

SL Visibility levels:

- ♦ Jan 2016: 95%
- ♦ Feb 2016: 89%
- ♦ Goal: 91%

Major Impact (15 Minutes or Above Additional Travel Time)

2/20 (Saturday) AM Westbound I-64 at Boone Bridge --Two Right Lanes Closed

- Bridge demolition preparation for future blast
- All mitigation efforts were in use
- Additional travel times were detected throughout the day but the greatest was in the 3:00 pm - 6:00 pm time frame
- RITIS data recorded an additional 21 minutes of travel time experienced by motorists

2/21 (Sunday) AM Westbound I-64 at Boone Bridge --Two Right Lanes Closed

- Bridge demolition preparation for future blast two
- All mitigation efforts were in use
- Additional travel times were detected throughout the day but the greatest was in the 1:00 pm - 4:00 pm time frame
- RITIS data recorded an additional 19 minutes of travel time experienced by motorists

Moderate Impact (10-14 Minutes Additional Travel Time)

*****None*****

Work Zone Related Crashes with Mobility Impact

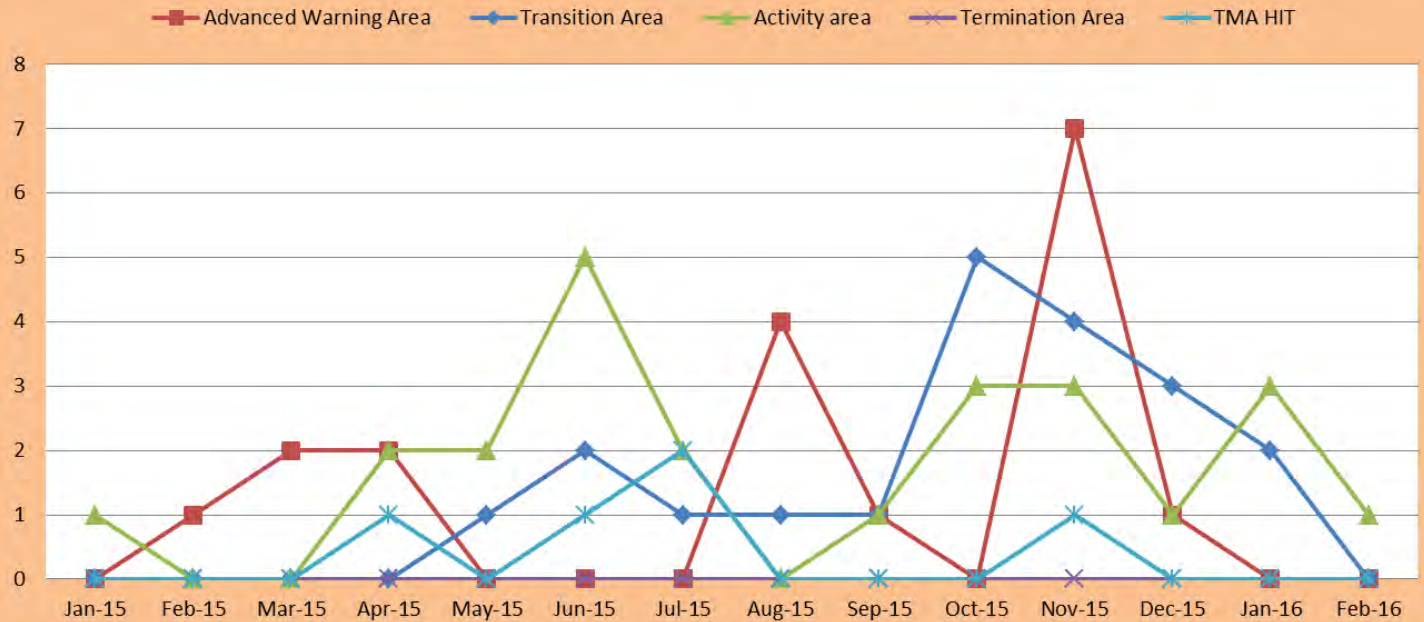
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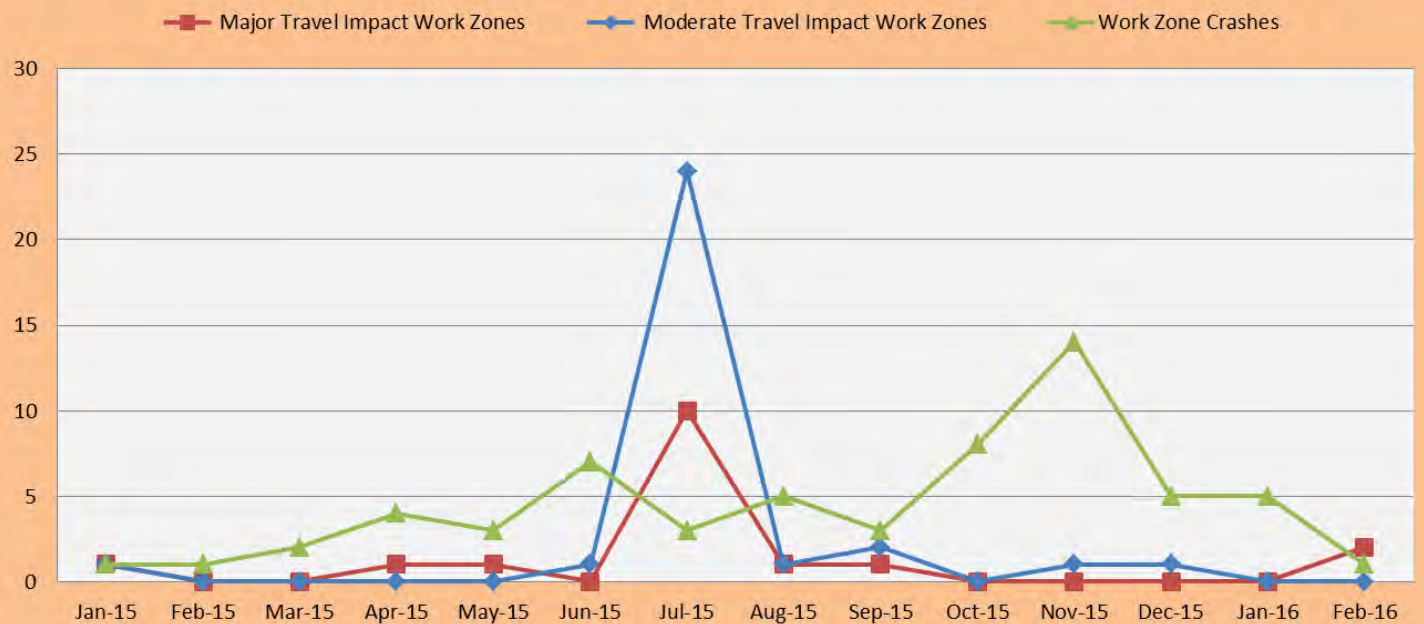


WORK ZONES

YTD Work Zone Crashes Relative to Work Zone

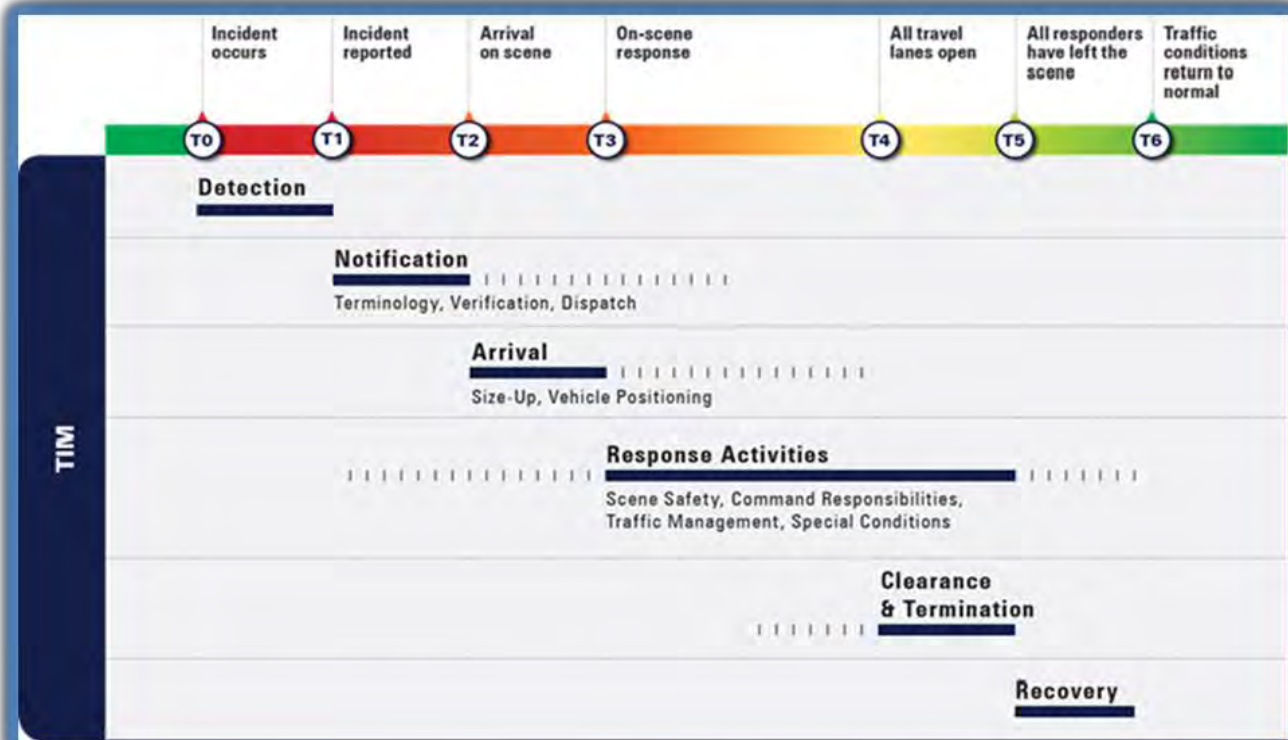
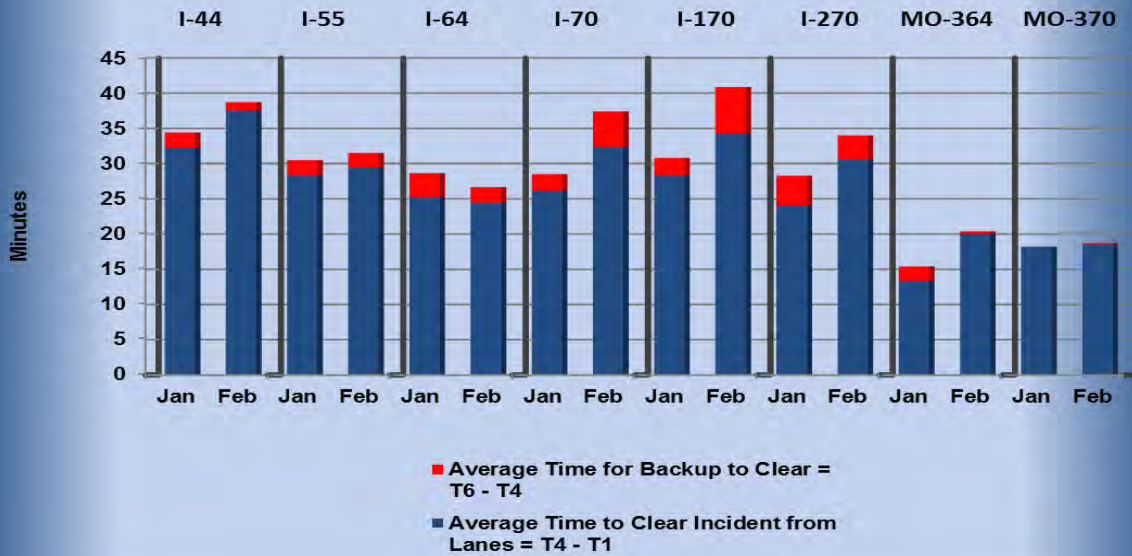


YTD Work Zone History

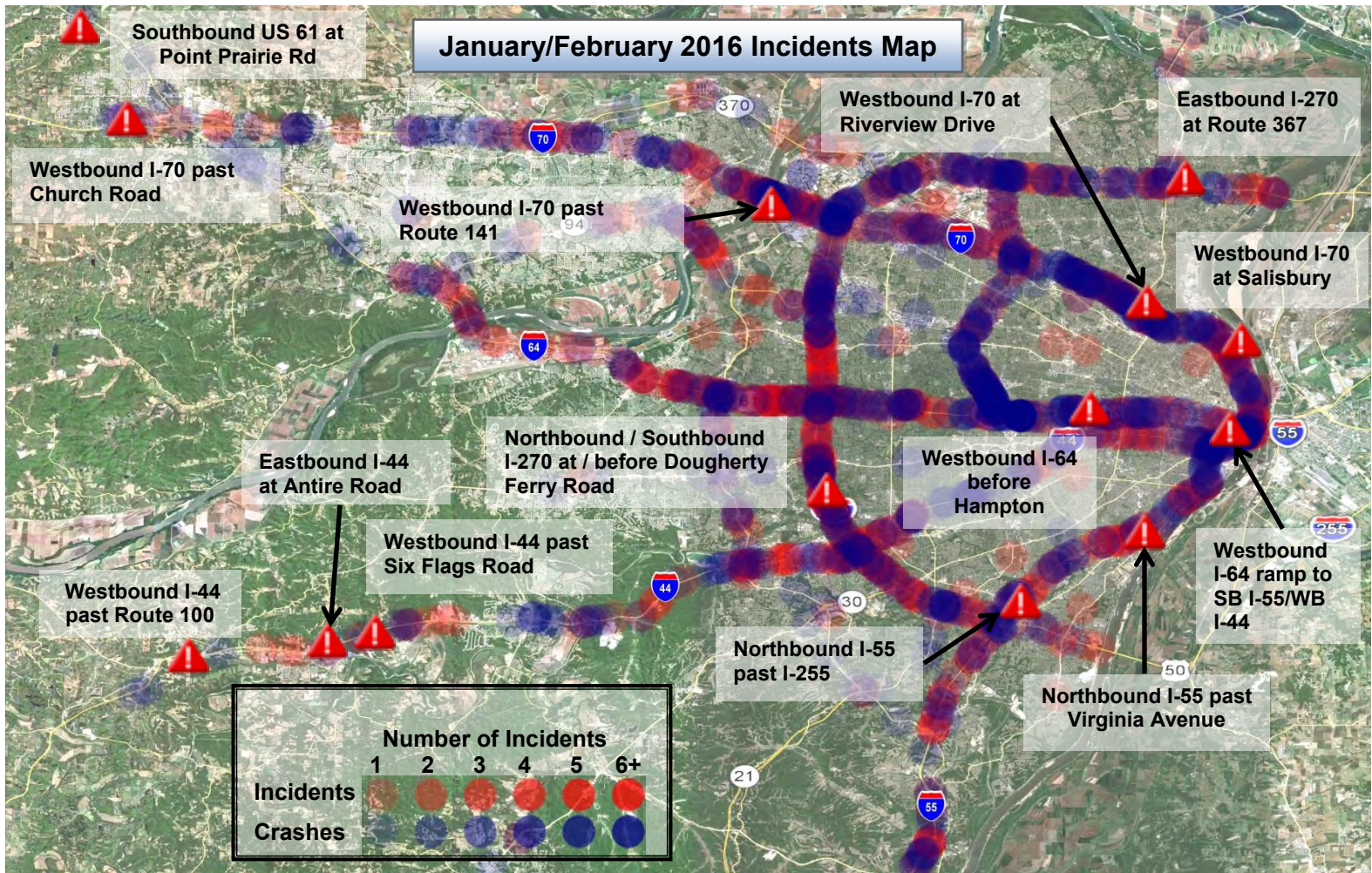


FREEWAY MANAGEMENT

January 2016 vs. February 2016
Incidents Summary

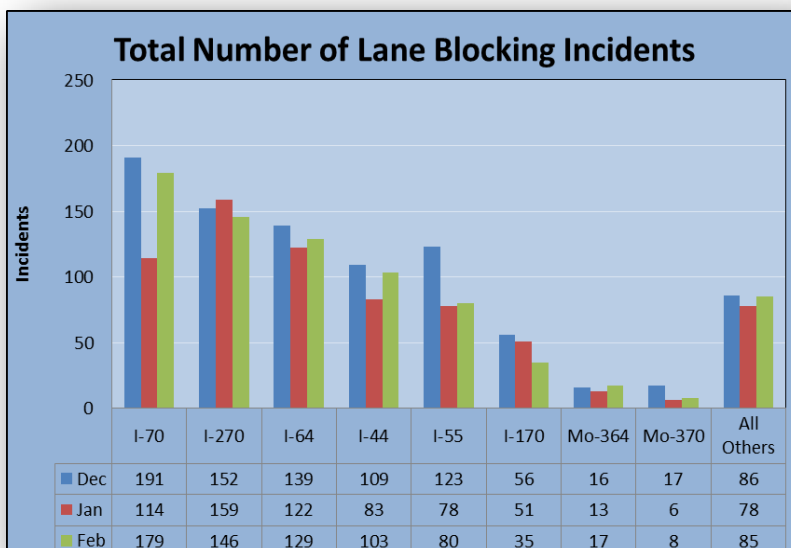


FREEWAY MANAGEMENT



Denotes Location of Major Impact Traffic Incidents

Total Number of Incidents: December: 889 / January: 704 / February: 782

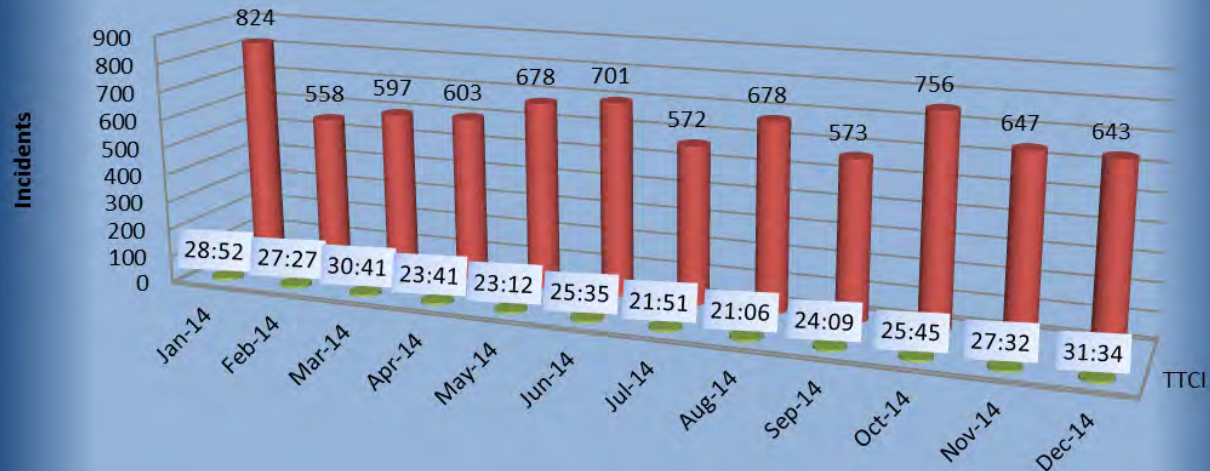


Major Impact Incidents
January 2016 vs. February 2016
(5) (9)

Fatal Incidents
January 2016 vs. February 2016
(5) (3)

Tractor Trailer Incidents
January 2016 vs. February 2016
(30) (53)

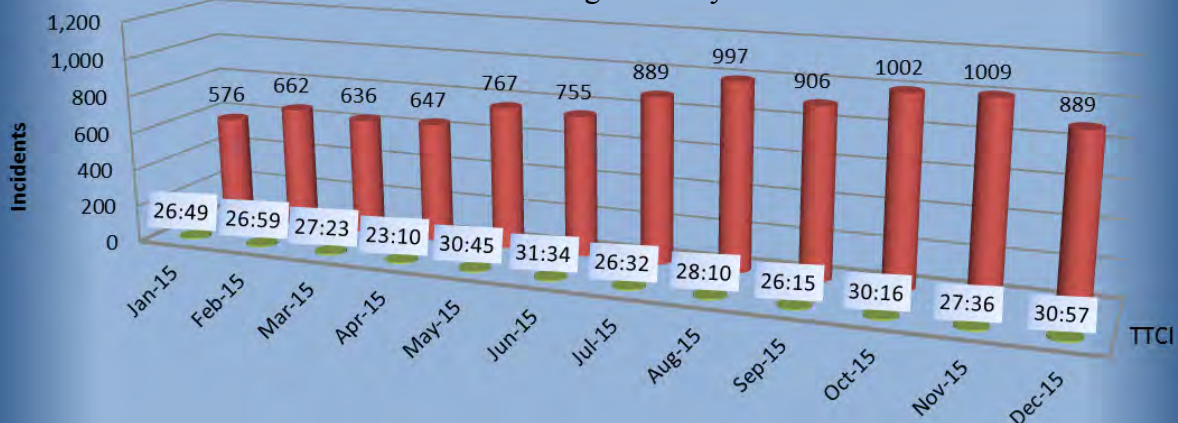
2014 Number of Incidents and Time to Clear Lanes



	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
TPCI	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

2015 Number of Incidents and Time to Clear Lanes

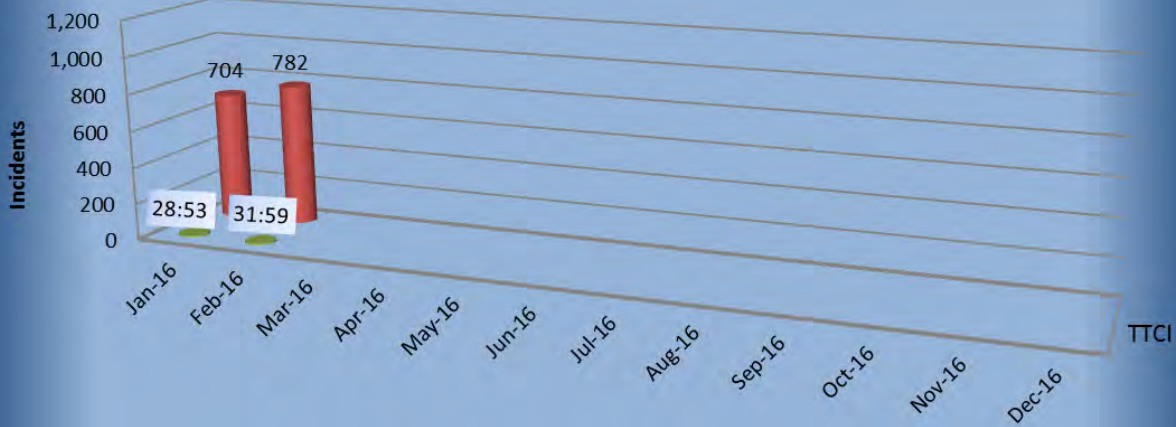
*Note changes in Incident reporting data began in July 2015



	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
TPCI	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

FREEWAY 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
TTCI	28:53	31:59										
Incidents	704	782										

Lane Blocking Incidents by Freeway January and February 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	Jan	83	32:25	02:16	33	2.52
I-44	Feb	105	37:50	01:21	33	3.18
I-55	Jan	78	28:34	02:14	23	3.39
I-55	Feb	80	29:40	02:10	23	3.48
I-64	Jan	122	25:27	03:38	40	3.05
I-64	Feb	131	24:48	02:20	40	3.28
I-70	Jan	114	26:13	02:38	38	3.00
I-70	Feb	179	32:37	05:04	38	4.71
I-170	Jan	51	28:26	02:55	11	4.64
I-170	Feb	35	34:33	06:53	11	3.18
I-270	Jan	159	24:02	04:28	36	4.42
I-270	Feb	151	57:03	02:04	36	4.19
MO-364	Jan	13	13:37	02:04	11	1.18
MO-364	Feb	17	20:04	00:00	11	1.55
MO-370	Jan	6	18:20	00:00	13	0.46
MO-370	Feb	8	18:52	01:14	13	0.62
Total	Jan/Feb	1332	28:17	02:35	410	3.25



FREEWAY MANAGEMENT

Incidents With Lanes Blocked Over 2 Hours January 2016							
#	Date & Time	Day of Week	Route	Location	Description	Duration HH/MM	Mobility Impact
1	1/6/2016 7:00	Wednesday	I-55 NB	PAST VIRGINIA AVE	Expansion joint sticking out of roadway // 2 of 4 lanes closed for emergency concrete repair // 6 mile queue to US 67	2:10	Major
2	1/9/2016 23:50	Saturday	Route 364 EB	At Westport Plaza	Fatal crash with reconstruction // coroner and reconstruction teams were delayed due to other incidents // no mobility impact	5:07	Minor
3	1/17/2016 11:23	Sunday	ROUTE 94 EB	PAST JUNGEMAN RD	Stalled plow vehicle with radiator issues // mechanic got it fixed // 1 of 2 lanes blocked // no mobility impact	2:04	Minor
4	1/19/2016 23:48	Tuesday	I-44 WB	PAST RTE 100 WEST	Multi-vehicle crash with tractor trailer involved // 2 of 2 lanes closed // WB traffic was diverted off I-44 at Route 100 on to the outer road	3:10	Major
5	1/20/2016 5:20	Wednesday	I-44 EB	AT ANTIRE RD	Stalled MODOT plow truck // closed 2 of 5 travel lanes // 2 mile back up with a 7 minute queue	2:43	Major
6	1/20/2016 7:23	Wednesday	I-270 NB	PAST I-55	Stalled tandem tractor trailer with busted air lines // closed 2 of 5 lanes // took 3 tow trucks to move to shoulder and clear lanes	2:07	Minor
7	1/21/2016 7:54	Thursday	US 61 SB	POINT PRAIRIE RD CRD	Three vehicle fatal cross over crash // closed 2 of 2 lanes for reconstruction // traffic was diverted SB at Route W to I-70 with a 1.5 mile queue up tp 45 minutes	3:13	Major
7	1/21/2016 9:18	Thursday	US 61 NB	POINT PRAIRIE RD CRD	2 of 2 NB lanes temporarily closed // lanes opened to move traffic and then closed again for reconstruction	3:13	Major
8	1/22/2016 6:53	Friday	I-64 WB	BEFORE HAMPTON	Pedestrian fatally struck // 4 of 4 lanes closed // traffic diverted at Kingshighway Boulevard // queue 2.2 miles past Grand // Medical examiner stuck in queue	4:17	Major
9	1/27/2016 19:58	Wednesday	I-270 WB	PAST W FLORISSANT AVE	Tractor trailer crashed into ditch // driver arrested for DUI // 1 of 3 lanes closed // no mobility impact	2:43	Minor
10	1/28/2016 12:58	Thursday	MO 340 WB	PRICE RD CST	Multi-vehicle crash // large debris field scattered closing all Westbound lanes // traffic diverted for cleanup // no mobility impact	2:09	Minor
11	1/30/2016 14:46	Saturday	US 67 SB	PAST MO RIVER	Two vehicle crash // 2 of 2 SB lanes closed for clean up of vehicle fluids // no mobility impact	2:42	Minor
12	1/30/2016 22:28	Saturday	I-55 SB	BEFORE GASCONADE ST	Fatal motorcycle crash // 5 of 5 lanes closed for reconstruction and police investigation // queue was about 1.75 miles // traffic diverted at Arsenal Avenue	4:24	Minor
13	1/31/2016 4:03	Sunday	I-170 NB	BEFORE I-270	Multi-vehicle crash // 2 of 2 lanes closed // no impact on mobility	2:01	Minor
14	1/31/2016 19:31	Sunday	I-44 EB	PAST REST AREA	Two vehicle Fatal crash // 2 of 2 lanes closed // drivers advised to seek alternate route // traffic queue unavailable	4:14	Minor

Incidents With Lanes Blocked Over 2 Hours February 2016							
#	Date & Time	Day of Week	Route	Location	Description	Duration HH/MM	Mobility Impact
1	2/2/2016 4:11	Tuesday	I-44 EB	AT HAMPTON AVE	Fatal pedestrian strike // closed 4 of 4 lanes // Traffic detoured off at Hampton Avenue // no queue	2:53	Minor
2	2/3/2016 14:27	Wednesday	I-70 WB	PAST 141	Single vehicle crash // car rolled down embankment // 2 of 4 lanes closed // Q: 1.5 miles // 8 minute queue when lanes cleared	2:01	Major
3	2/4/2016 12:55	Thursday	S 47 MO	50 US	Head on fatal crash closed all lanes // Crash reconstruction and training of new team added an additional 30 minutes to closure // traffic diverted	3:19	Minor
3	2/4/2016 12:56	Thursday	N 47 MO	COLLEGE AVE CST	Head on fatal crash closed all lanes // Crash reconstruction and training of new team added an additional 30 minutes to closure // traffic diverted	3:20	Minor
4	2/7/2016 11:58	Sunday	100 MO	WOODLAWN AVE CST	Police incident involving shots fired and crash // closed 2 of 2 lanes // traffic diverted // no report of queue	3:37	Minor
4	2/7/2016 12:15	Sunday	W MANCHESTER	KENMORE DR CST	Police incident involving shots fired and crash // closed 2 of 2 lanes // traffic diverted // no report of queue	3:34	Minor
5	2/9/2016 5:00	Tuesday	I-44 WB	BEFORE RTE 109	Pick up truck carrying a trailer with a load of bricks crashe // 1 of 3 lanes closed // no queue	2:36	Minor
6	2/9/2016 7:25	Tuesday	I-70 WB	AT SALISBURY	Garbage truck and car crash // diesel fuel spill of 10 gallons confined to roadway // right lane was held waiting for tow // 4 mile back up	2:35	Major
7	2/12/2016 18:04	Friday	I-55 NB	PAST I-255	Two-vehicle crash possible criminal charges // reconstruction // queue of 2 miles	3:38	Major
8	2/13/2016 7:33	Saturday	I-64 WB	TO I-55 SB / I-44 WB	Milk truck crashed // closed ramp to SB I-55 SB / WB I-44 // Delayed upright due to off loading product /	4:23	Major
9	2/14/2016 19:09	Sunday	I-55 SB	PAST BROADWAY ST	Stalled privately owned salt truck // heavy tow required // 4 of 4 lanes blocked for a short duration to remove vehicle // no queue	2:17	Minor
10	2/17/2016 16:26	Wednesday	I-70 WB	AT RIVERVIEW	Fatal crash car vs. tractor trailer // 4 of 4 lanes closed // traffic diverted at Kingshighway // 6 mile queue EB // on-lookers caused a 5 mile queue WB	3:41	Major
10	2/17/2016 16:55	Wednesday	I-70 WB	ON RAMP FROM STRATFORD AVE	Police closed ramp to WB I-70 // turned traffic around and detoured traffic using the Union Boulevard on ramp	3:04	Major
11	2/18/2016 19:04	Thursday	I-44 WB	Out of District MM 69.8	Fatal crash two vehicle crash // 2 of 2 lanes closed // traffic diverted Route MM/B // reconstruction done on February 22nd at 10:00 am // no queue	3:19	Minor
12	2/19/2016 1:04	Friday	I-44 EB	Out of District MM 129.6	TT Overturned Spilled Load of baby food // 1 of 2 lanes closed // Crews worked from the outer road to clear the trailer // no queue	3:15	Minor
13	2/20/2016 10:52	Saturday	I-44 WB	PAST BUS 44 SIX FLAGS RD	Secondary crash in queue // a pickup truck striking the rear of a tractor trailer // 3 of 3 lanes closed // pickup driver transported by air evac // 14 minute queue	2:00	Major
14	2/21/2016 3:29	Sunday	I-270 EB	AT LINDBERGH BLVD	Fatal Interstate shootout // police closed EB I-270 traffic diverted at Lindbergh closed EB I-270 at US 67 and all ramps from US 67 to EB I-270 // 1/2 mile queue	5:04	Minor
15	2/21/2016 4:07	Sunday	I-270 EB	ON RAMP FROM LINDBERGH BLVD	Hazelwood Police looking for evidence from fatal shooting // Lindbergh access closed to EB 270 all directions // very light traffic // no queue	4:26	Minor
16	2/23/2016 22:14	Tuesday	I-270 WB	PAST W FLORISSANT AVE	Single vehicle crash // vehicle left roadway and struck light pole // light pole broke in half over interstate // 5 of 5 lanes closed // traffic diverted // no queue	2:29	Minor
17	2/24/2016 6:50	Wednesday	I-270 NB	BEFORE DOUGHERTY FERRY RD	All lanes closed due to power lines across the roadway // Traffic diverted at I-44 // 3 mile back up to south of I-44 // event tuned into Ameren WZ	7:03	Major
17	2/24/2016 7:02	Wednesday	I-270 SB	AT DOUGHERTY FERRY RD	All lanes closed power lines down across the roadway // Traffic diverted off at Manchester // 2 mile queue to south of Ladue // long closure into WZ	7:10	Major
19	2/24/2016 9:22	Wednesday	I-55 SB	AT IMPERIAL MAIN ST	All lanes closed due to low hanging power lines per MSHP // No access to cameras due to power outage	2:16	Minor
17	2/24/2016 11:16	Wednesday	I-44 WB	TO I-270 NB	Ramp closure from WB I-44 to NB I-270 for power lines across I-270 event	2:40	Major
17	2/24/2016 11:19	Wednesday	I-44 EB	TO I-270 NB	Ramp closure from EB I-44 to NB I-270 for power lines across I-270 event	2:39	Major
17	2/24/2016 11:25	Wednesday	I-270 NB	ON RAMP FROM BIG BEND BLVD	Ramp closure from Big Bend to NB 270 for power lines across I-270 event	2:28	Major
17	2/24/2016 11:33	Wednesday	I-64 WB	TO I-270 SB	Ramp closure from I-64 WB to SB 270 for power lines across I-270 event	3:00	Major
17	2/24/2016 13:54	Wednesday	I-270 NB	TO DOUGHERTY FERRY RD	Lane # 5 to Dougherty Ferry Closed because of Power lines across interstate // long closure to divert traffic away from Ameren work zone	26:00	Major
20	2/25/2016 8:02	Thursday	I-44 WB	Out of District MM 189.0	Tractor trailer Crash // 1 of 2 lanes closed // no queue	3:03	Minor
21	2/25/2016 8:31	Thursday	I-170 NB	BEFORE I-70	Two vehicle crash car vs tractor trailer // 75 gallon diesel fuel spill // DNR responded for clean up. // soil clean up kept event open // 90 minute queue	2:47	Major
22	2/26/2016 7:34	Friday	I-70 WB	PAST CHURCH ST	Box truck struck the side pier to the railroad overpass // Less than 50 gallons of diesel fuel onto the roadway // All lanes closed for clean up // 3.5 mile queue	3:03	Major
23	2/26/2016 10:59	Friday	S LUCAS & HUNT	115 MO	Pedestrian fatally struck on Lucas and Hunt during a police chase // 2/2 lanes closed for crash reconstruction. // no queue	2:10	Minor
24	2/26/2016 13:13	Friday	I-44 EB	PAST EXIT 163 MO 28 DIXON AT 164	Out of District // Two vehicle crash // no injuries // closed 1 of 2 lanes // no queue	2:35	Minor
25	2/26/2016 16:28	Friday	I-270 EB	AT MO 367	Three vehicle crash with injuries // Crash reconstruction // traffic diverted onto AB New Halls Ferry // 7 mile queue into Illinois // IDOT posted messaging	2:02	Major


Highlighted Incidents are detailed on the following pages



Major Impact Traffic Incidents and Mitigation

1/6/2016 (Wednesday)


- **Time:** 7:00 am – 9:10 am
- **Location:** St. Louis City – Northbound I-55 past Virginia Avenue
- **Event:** Road Hazard
- **Estimated Initial Impact:** Rush Hour: 2 of 4 travel lanes affected equals (=) 50%
- **Incident Detail:** An expansion joint was sticking out of the roadway causing multiple flat tires.
- **Action:** Emergency Response units were dispatched to investigate reports from drivers indicating something was in the roadway causing flat tires. While inspecting the area they found concrete damage and the expansion joint sticking out of lanes one and two. Assisted by St. Louis City Police, the two left lanes were closed. Community relations, Hampton Bridge and Maintenance Crews were notified. TMC activated all available DMS boards from Northbound I-55 south of Butler Hill Road, and the closure was entered into TMS to alert the public of the emergency roadwork. The incident was turned over to MoDOT Maintenance to complete the repairs to the concrete/roadway. Traffic queued for 6 miles to US 61/67.
- **Event Duration:** 2 hours 10 minutes

Northbound I-55 past Virginia Avenue 	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
Closed Hours/Minutes	0:00	2:10	2:10	0:00	0:00	0:00

Major Impact Traffic Incidents and Mitigation


1/19/2016 (Tuesday)

- **Time:** 11:47 pm – 2:57 am
- **Location:** Franklin County – Westbound I-44 past Route 100
- **Event:** Multi-Vehicle Crash
- **Estimated Initial Impact:** Non-Rush Hour: 2 of 2 travel lanes affected equals (=) 100%
- **Incident Detail:** Multi-vehicle crash involving two cars, three pickups, an SUV and one tractor trailer. The crash closed Westbound I-44 just past Route 100.
- **Action:** Emergency Response provided traffic control. Drivers were diverted at Route 100 onto the outer road. The TMC messaged for the closure and to seek an alternate route. The incident was entered into TMS to alert the public.
- **Event Duration:** 3 hours 10 minutes

Westbound I-44 past Route 100 	Left Shoulder	Lane 1	Lane 2	Right Shoulder
Closed Hours/Minutes	3:10	3:10	3:10	3:10

1/20/2016 (Wednesday)

- **Time:** 5:12 am – 7:55 am
- **Location:** St. Louis County – Eastbound I-44 at Antire Road
- **Event:** Stalled Vehicle
- **Estimated Initial Impact:** Rush Hour: 2 of 5 travel lanes affected equals (=) 40%
- **Incident Detail:** MoDOT plow truck stalled in the roadway.
- **Action:** Emergency Response personnel provided traffic control until a mechanic could respond to the scene to clear the fuel lines. The TMC messaged for the closure. Traffic queued for 2 miles.
- **Event Duration:** 2 hours 43 minutes

Eastbound I-44 at Antire Road 	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Right Shoulder
Closed Hours/Minutes	0:00	0:00	0:00	0:00	2:01	2:43	0:00





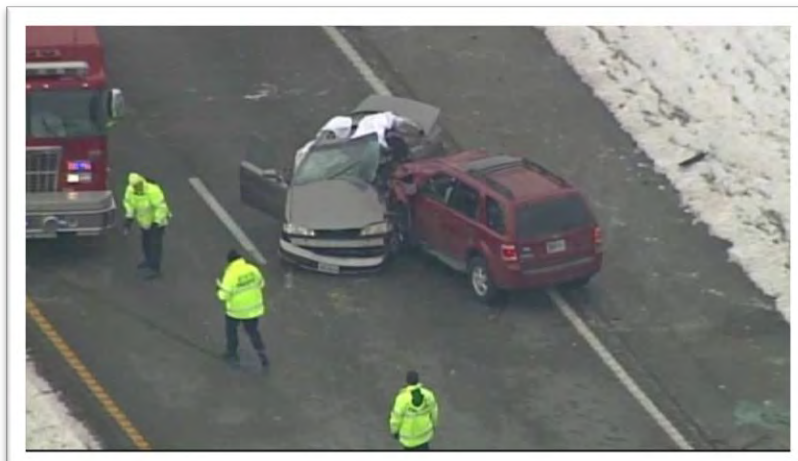
FREeway MANAGEMENT

Major Impact Traffic Incidents and Mitigation

1/21/2016 (Thursday)

- **Time:** 7:53 am – 11:06 am ***Fatal***
- **Location:** St. Charles County – Southbound US 61 at Point Prairie Rd
- **Event:** Multi-Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 2 of 2 travel lanes affected equals (=) 100%
- **Incident Detail:** A three vehicle cross-over accident with multiple fatalities. Initially closed both northbound and southbound lanes of US 61. The northbound lanes were reopened after 45 minutes to relieve the queue, but closed again for reconstruction. The southbound lanes remained closed for the entire event.
- **Action:** Crash reconstruction took place led by MSHP. Emergency Response and Maintenance Crews assisted with traffic control. The TMC messaged for the closures advising motorists to seek an alternate route, and notified EOC, Community Relations and Motor Carriers. Police diverted traffic to Route W for access to I-70 and NB US 61. Delays on the detour, Route W, were 45 minutes. Traffic queued on Southbound US 61 for 1.5 miles.
- **Event Duration:** 3 hours 13 minutes


Southbound US 61 at Point Prairie Rd. 	Left Shoulder	Lane 1	Lane 2	Right Shoulder
Closed Hours/Minutes	3:13	3:13	3:13	3:13
Northbound US 61 at Point Prairie Rd. 	Left Shoulder	Lane 1	Lane 2	Right Shoulder
Closed Hours/Minutes	3:13	1:37	0:45	0:45



Major Impact Traffic Incidents and Mitigation

1/22/2016 (Friday)

- **Time:** 6:52 am – 11:09 am *** Fatal ***
- **Location:** St. Louis City – Westbound I-64 before Hampton Avenue
- **Event:** Pedestrian Struck
- **Estimated Initial Impact:** Rush Hour: 4 of 4 travel lanes affected equals (=) 100%
- **Incident Detail:** Pedestrian walked into traffic in lane one and was struck by a vehicle resulting in fatal injuries to the pedestrian.
- **Action:** Emergency Response personnel provided traffic control. MoDOT Traffic Engineers coordinated with St. Louis City Signals to make necessary adjustments to assist with traffic flow on alternate routes. The duration of the incident was extended due to the Medical Examiner being stuck in traffic. TMC messaged for the closure and notified Communications, Area Engineer, Motor Carriers, the EOC and IDOT. I-64 was shut down at Kingshighway, besides the message boards, one Emergency Response unit was posted at Grand with an "Incident Ahead Sign" to notify drivers. Traffic queued for approximately 2.2 miles past Grand. It eased to approximately one mile shortly after the two left lanes were re-opened and returned to normal almost immediately after all lanes were cleared.
- **Event Duration:** 4 hours 17 minutes


Westbound I-64 before Hampton Avenue 	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
Closed Hours/Minutes	3:36	3:36	3:36	4:06	4:06	4:06



Major Impact Traffic Incidents and Mitigation


2/3/2016 (Wednesday)

- **Time:** 2:26 pm – 4:27 pm
- **Location:** St. Louis County – Westbound I-70 past Route 141
- **Event:** Single-Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 2 of 5 travel lanes affected equals (=) 40%
- **Incident Details:** A single vehicle roll-over crash. The vehicle rolled down the embankment under a bridge, resulting in two injuries.
- **Action:** Emergency Response personnel provided traffic control. Bridgeton Police along with Pattonville Fire and EMS responded. The TMC messaged alerting drivers of the incident. A queue of 1.5 miles was observed.
- **Event Duration:** 2 hours 1 minute

Westbound I-70 past Route 141 	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Right Shoulder
Closed Hours/Minutes	0:00	0:00	0:00	0:00	0:19	0:44	2:01

2/9/2016 (Tuesday)

- **Time:** 7:24 am – 9:59 am
- **Location:** St. Louis City – Westbound I-70 at Salisbury
- **Event:** Two-Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 2 of 3 travel lanes affected equals (=) 66%
- **Incident Details:** Crash involved a car and a commercial garbage truck.
- **Action:** Emergency Response personnel provided traffic control. Due to the size of the garbage truck two heavy tow trucks were needed, which extended the time of the closure. The truck spilled approximately 10 gallons of diesel fuel, which was held by a boom until it could be treated with oil dry and collected. The TMC messaged for the event. Traffic queued for approximately 4 miles.
- **Event Duration:** 2 hours 35 minutes


Westbound I-70 at Salisbury 	Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes	0:00	1:30	2:32	2:35



Major Impact Traffic Incidents and Mitigation

2/12/2016 (Friday)

- **Time:** 6:04 pm – 9:42 pm
- **Location:** St. Louis County – Northbound I-55 past I-255
- **Event:** Two-Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 4 of 4 travel lanes affected equals (=) 100%
- **Incident Details:** The driver who caused the accident was suspected to be intoxicated. The Missouri State Highway Patrol completed an accident reconstruction. The reconstruction team responded from Farmington, which increased the time of the closure.
- **Action:** Emergency Response personnel provided traffic control. St. Louis County Police responded initially before turning command of the incident over to the highway patrol. The Affton Fire Department and EMS also responded. One patient was transported. The TMC messaged for the event, notifying drivers of the closure. Traffic queued for approximately 3 miles at the start of the incident and continued through PM rush.
- **Event Duration:** 3 hours 38 minutes


Northbound I-55 Past I-255 	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Right Shoulder
Closed Hours/Minutes	2:57	2:57	2:54	0:07	3:28	3:38



Major Impact Traffic Incidents and Mitigation

2/13/2016 (Saturday)

- **Time:** 7:32 am – 11:55 am
- **Location:** St. Louis City – Westbound I-64 ramp to SB I-55/WB I-44
- **Event:** Overturned Tractor Trailer Crash
- **Estimated Initial Impact:** Non-Rush Hour: Ramp Closed
- **Incident Details:** A tractor trailer overturned on the ramp from the Poplar Street Bridge to SB I-55/WB I-44 spilling part of its load of detergent.
- **Action:** At the TMC's request IDOT initially responded to assist due to MoDOT's Emergency Response personnel not being on duty at the time of the accident. St. Louis City Police responded, as did Emergency Response when they came on duty at 8:00 am. The truck was hauling detergent. Emergency Response used 20 bags of oil dry and three bags of rock salt to clean up. The EOC, Area Engineer, DNR, Motor Carriers and MoDOT Incident Management Coordinator were all notified. The TMC messaged for the closure advising drivers to seek an alternate route. The tractor trailer was eventually up-righted and the ramp opened for normal traffic at 11:55 am.
- **Event Duration:** 4 hours 22 minutes

Westbound I-64 exit to SB I-55/WB I-44	Left Exit Shoulder	Exit Lane	Right Exit Shoulder
			
Closed Hours/Minutes	3:44	4:22	4:22



FREEWAY MANAGEMENT


Major Impact Traffic Incidents and Mitigation



Major Impact Traffic Incidents and Mitigation

2/17/2016 (Wednesday)

- **Time:** 4:25 pm – 8:06 pm *** Fatal ***
- **Location:** St. Louis City – Westbound I-70 at Riverview Drive
- **Event:** Two-Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 5 of 5 travel lanes affected equals (=) 100%
- **Incident Details:** A compact passenger vehicle ran under the back of a tractor trailer, resulting in the death of the driver and critically injuring the passenger. The interstate was closed as both the driver and passenger had to be extricated from the vehicle.
- **Action:** St. Louis City Police, Fire and EMS responded. Emergency Response personnel assisted with traffic control and diverted drivers onto Kingshighway. Emergency Response personnel were also posted at various locations to assist with the multiple ramp closures. The queued traffic was released by turning traffic around and using the Union Boulevard on-ramp. The signal engineer set the signals at Kingshighway and Union to favor exiting traffic. Reconstruction took place led by the St. Louis City Police. 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, Area Engineer, Motor Carriers, and MoDOT Incident Management Coordinator were all notified. The event caused significant delays due to the rush hour time frame. Westbound traffic queue approximately 6 miles back to the McKinley Bridge. Eastbound traffic also queued approximately 5 miles caused by on-lookers.
- **Event Duration:** 3 hours 41 minutes

Westbound I-70 at Riverview Drive	Lane 1	Lane 2	Lane 3	Lane 4	Exit Lane	Right Shoulder
						
Closed Hours/Minutes	3:33	3:33	3:41	3:37	3:34	3:34


Major Impact Traffic Incidents and Mitigation



Major Impact Traffic Incidents and Mitigation

2/20/2016 (Saturday)

- **Time:** 10:52 am – 12:52 pm
- **Location:** St. Louis County – Westbound I-44 past Six Flags Road
- **Event:** Three-Vehicle Crash
- **Estimated Initial Impact:** Non-Rush Hour: 3 of 3 travel lanes affected equals (=) 100%
- **Incident Details:** A van crashed into the left wall of Westbound I-44 near Six Flags resulting in a pickup truck striking the rear of a tractor trailer. Two injuries were reported, including the driver of the pickup who was transported via Air Evacuation.
- **Action:** Eureka Police, Fire and EMS responded. Command of the incident was given to the Missouri State Highway Patrol upon their arrival. Emergency Response personnel placed advance warning signs at MO 109 and assisted with traffic control. MoDOT maintenance units from Eureka also responded with oil dry for oil and fuel that leaked from the pickup. Eastbound traffic was also closed for a short time while the air evacuation took place. The TMC had DMS messages populated approximately 10 minutes before the secondary accident occurred and remained throughout the incident. The closure was also entered into TMS. Traffic queued approximately 4 miles to west of MO 109.
- **Event Duration:** 2 hours 0 minutes

Westbound I-44 past Six Flags Road 	Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes	0:43	1:36	1:41	2:00





FREEWAY MANAGEMENT


Major Impact Traffic Incidents and Mitigation




Major Impact Traffic Incidents and Mitigation

2/24/16 (Wednesday) – 2/25/16 (Thursday)

- **Time:** 6:50 am – 8:50 am *** Weather ***
- **Location:** St. Louis County – Northbound / Southbound I-270 at / before Dougherty Ferry Road
- **Event:** Powerlines over Interstate
- **Estimated Initial Impact:** Rush Hour: 5 of 5 travel lanes affected equals (=) 100%
- **Incident Details:** Powerlines snapped during a weather event and blocked all lanes of Northbound and Southbound I-270 during morning peak period travel.
- **Action:** MoDOT Emergency Response and Maintenance, MSHP, Creve Coeur Police, Fire, EMS, and Ameren responded to the scene. Emergency Response and maintenance personnel assisted with traffic control, which included closing ramps at Dougherty Ferry Road and EB / WB I-44 to NB I-270. Traffic stuck in the queue was turned around at Manchester and I-44. The event was eventually turned into a work zone with the ramp at Dougherty Ferry Road closed to keep traffic away from the area so Ameren could work. The TMC messaged for the closure, and notified communications as well as the MoDOT Incident Management Coordinator / EOC / Area Engineer. Traffic queued Southbound to Ladue Road and Northbound to I-44. Southbound traffic was eventually allowed to travel southbound exiting at Manchester Road. The actual I-270 portion of the closure was 7 hours and 10 minutes. The event lasted overnight into the next day as Ameren crews had to stop repairs and finish up the following morning.
- **Event Duration:** 26 hours 0 minutes

Northbound I-270 at Dougherty Ferry Road	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Right Shoulder
							
Closed Hours/Minutes	7:03	7:03	7:03	7:03	7:03	7:03	3:03

Southbound I-270 past Dougherty Ferry Road	Left Shoulder	Lane 1	Lane 2	Lane 3	Lane 4	Lane 5	Right Shoulder
							
Closed Hours/Minutes	7:10	7:10	7:10	7:10	7:10	7:10	3:03




FREEWAY MANAGEMENT

Major Impact Traffic Incidents and Mitigation



2/26/2016 (Friday)


- **Time:** 7:33 am – 10:36 am
- **Location:** St. Charles County – Westbound I-70 past Church Road
- **Event:** Single Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 2 of 2 travel lanes affected equals (=) 100%
- **Incident Details:** A large box truck struck the side pier to the railroad overpass, tearing the roof and side off of the truck and spilling its load. The vehicle also leaked less than 50 gallons of diesel fuel onto the roadway.
- **Action:** Wentzville police and fire responded, as did the MSHP and the St. Charles County EMS. Emergency Response personnel assisted with traffic control and placed advance warning signs west of the incident. Norfolk and Southern Railroad was notified and issued a stop order until the bridge could be inspected. Due to the fuel leak, all lanes had to be closed for a short time to spread oil dry. The TMC messaged for the closure and notified communications as well as the MoDOT Incident Management Coordinator. Traffic queued for approximately 3.5 miles as the box truck was unloaded and towed from the scene.
- **Event Duration:** 3 hours 3 minutes

Westbound I-70 past Church Street	Left Shoulder	Lane 1	Lane 2	Right Shoulder
				
Closed Hours/Minutes	0:45	0:45	1:53	3:03

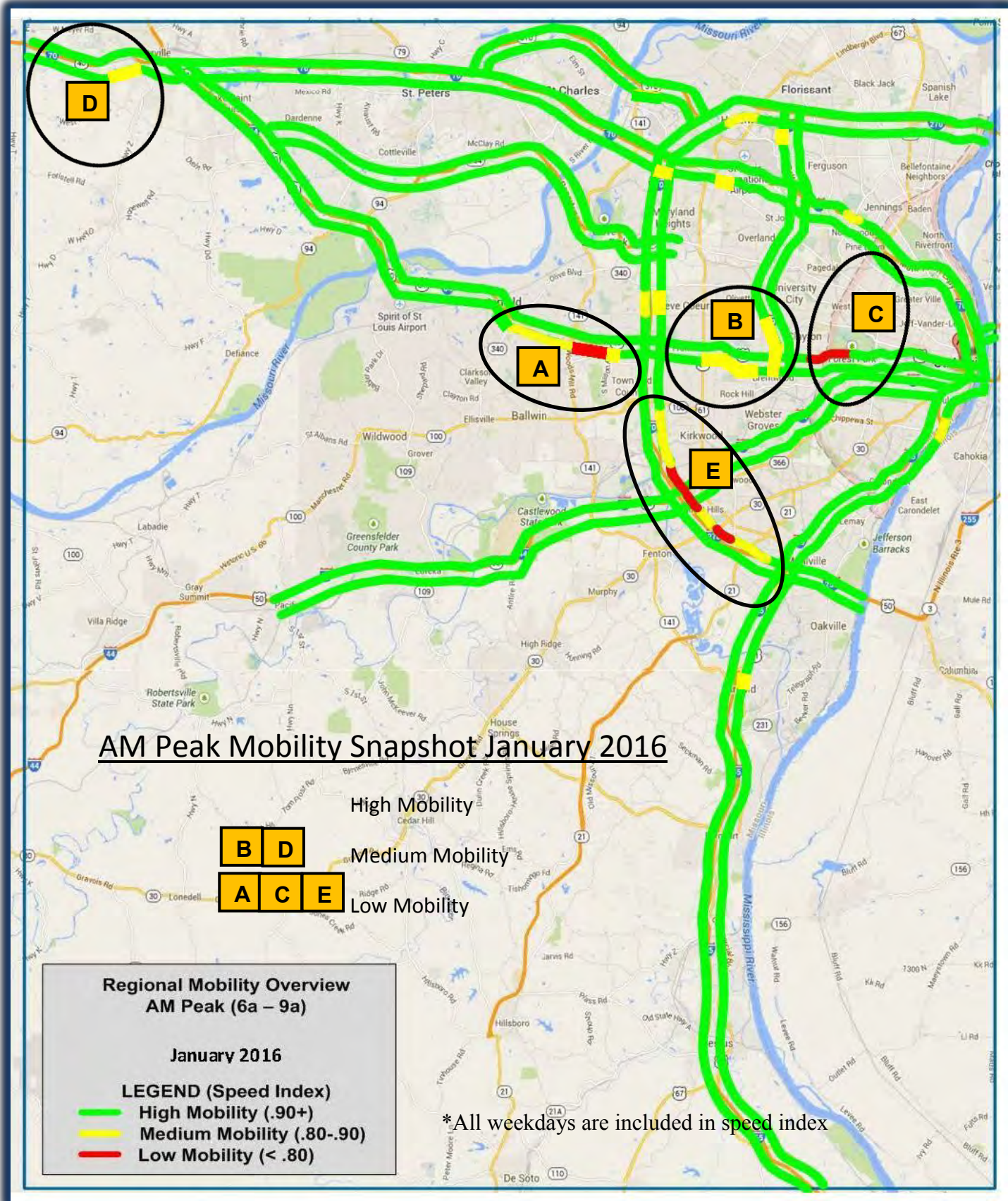
Major Impact Traffic Incidents and Mitigation

2/26/2016 (Friday)

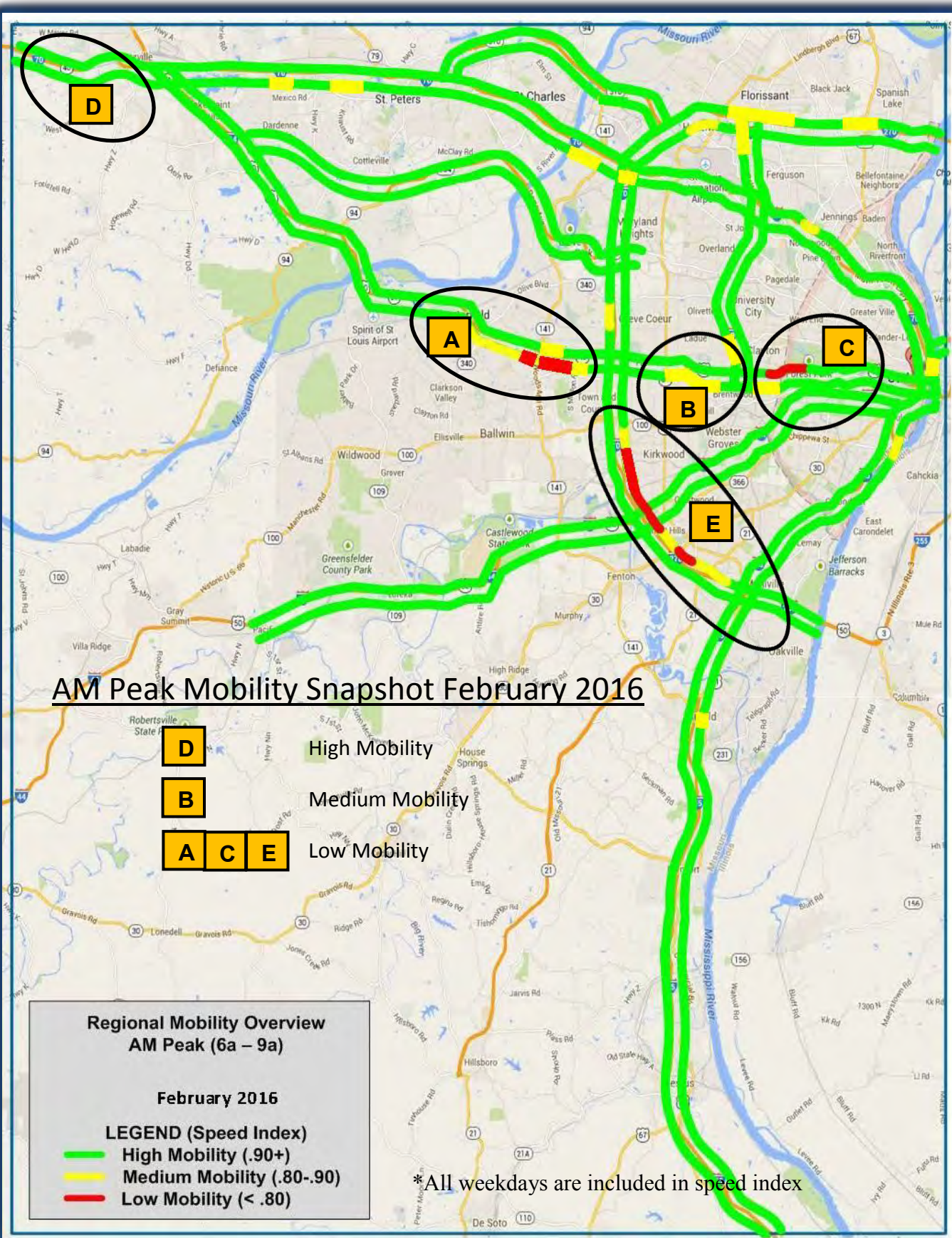
- **Time:** 4:28 pm – 6:30 pm
- **Location:** St. Louis County – Eastbound I-270 at Route 367
- **Event:** Multi-Vehicle Crash
- **Estimated Initial Impact:** Rush Hour: 3 of 3 travel lanes affected equals (=) 100%
- **Incident Details:** Three vehicle crash in which an SUV slowing for traffic was struck from behind by a pickup truck. The SUV was pushed into a passenger car before overturning and coming to a rest on its right side. After striking the SUV, the pickup truck came to a stop partially on top of the concrete median wall. The accident resulted in three persons injured, one seriously, and all three vehicles being towed from the scene.
- **Action:** St. Louis County and the Bellefontaine Neighbors Police responded along with Black Jack Fire and Christian Northeast EMS. Upon arrival of the MSHP, command of the incident was turned over to them and they completed an accident reconstruction. Emergency Response personnel assisted with traffic control, diverting traffic onto New Halls Ferry when all lanes were closed. The TMC messaged for the closure and updated as needed. The TMC also contacted IDOT, requesting that message boards for westbound traffic be activated. Emergency vehicles were also blocking the left lane of Westbound I-270. Rush hour traffic queued for 7 miles back to McDonnell. It took approximately 30 minutes for traffic to return to normal after the incident cleared.
- **Event Duration:** 2 hours 2 minutes

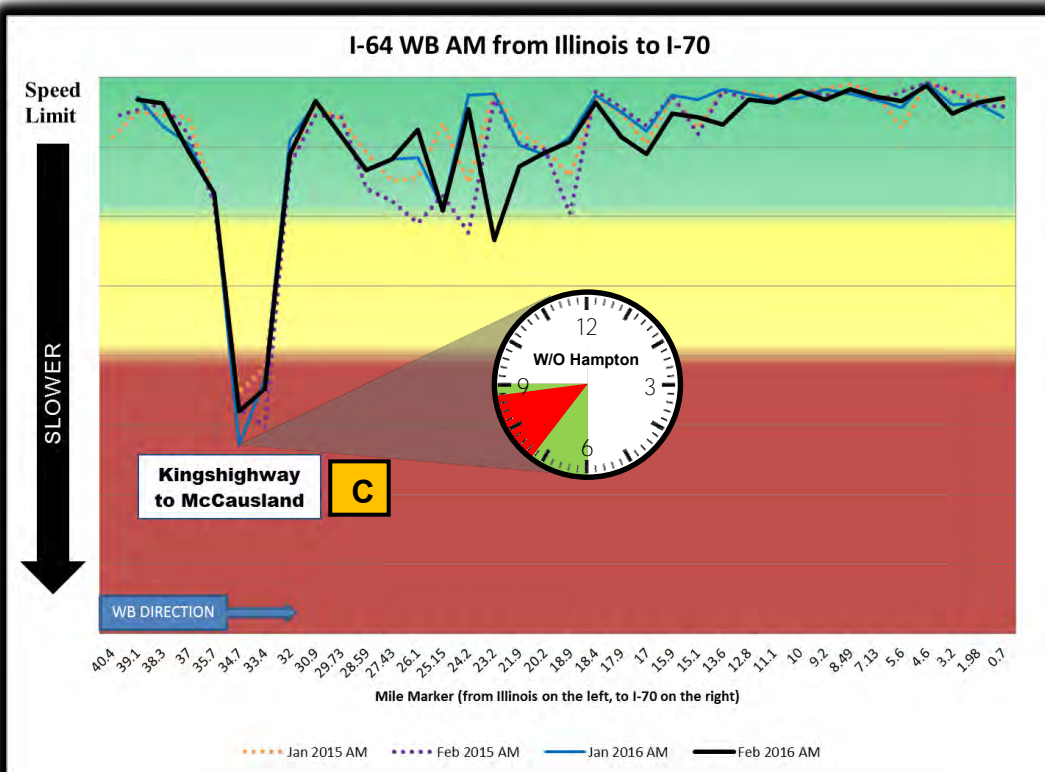
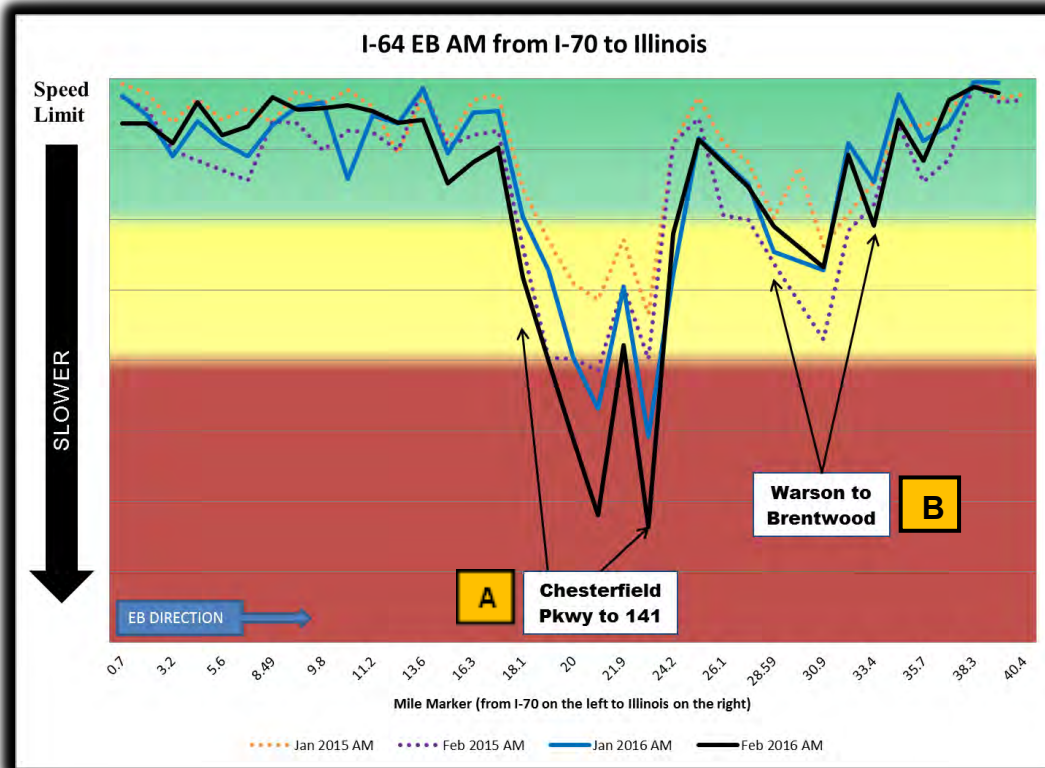
Eastbound I-270 at Route 367 	Lane 1	Lane 2	Lane 3	Right Shoulder
Closed Hours/Minutes	2:00	2:00	1:13	0:40

FREEWAY MANAGEMENT

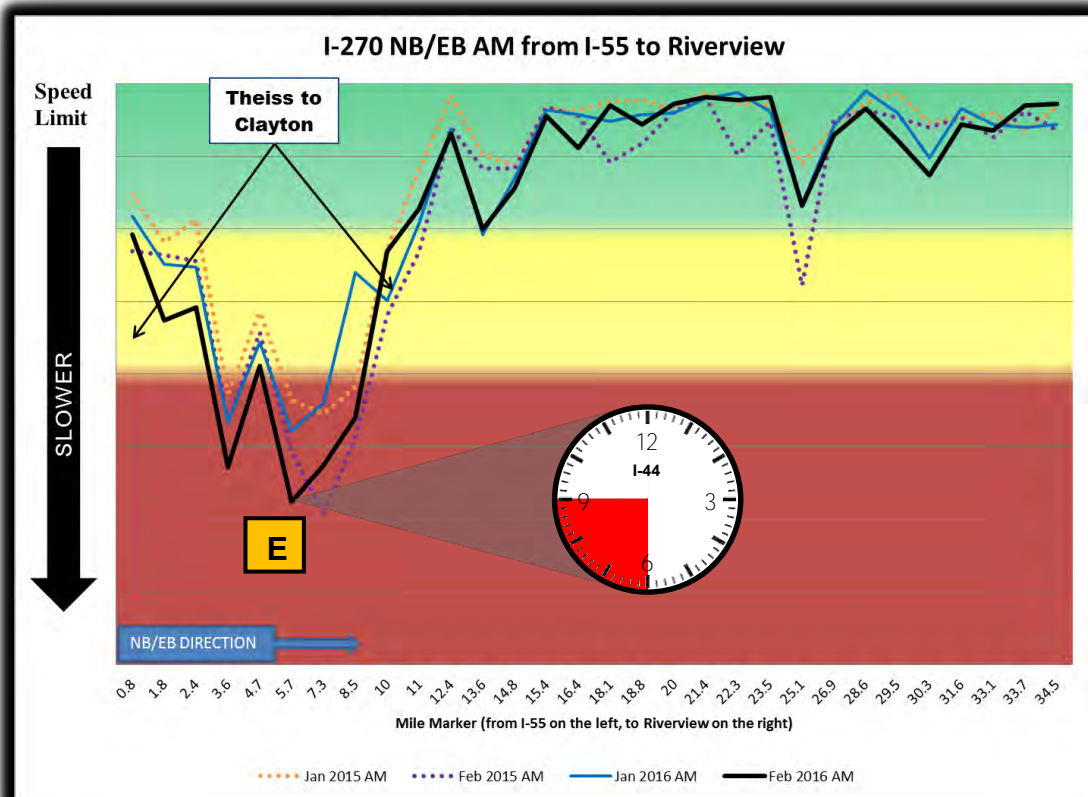
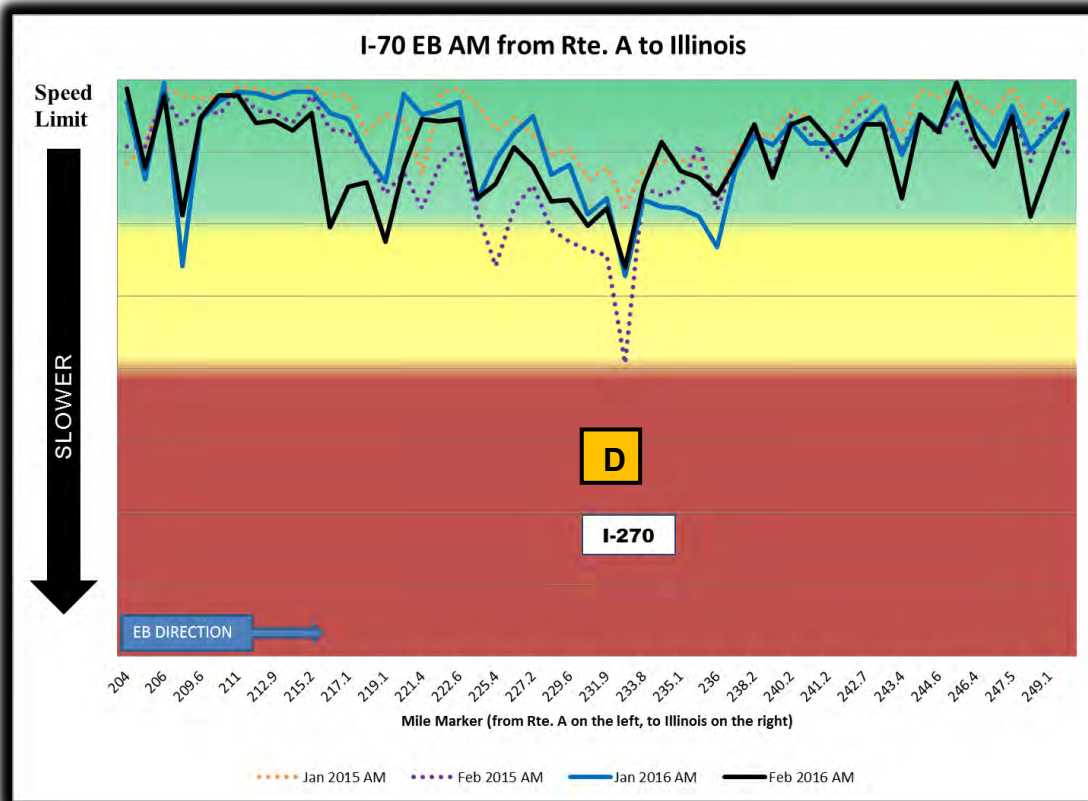


FREEWAY MANAGEMENT

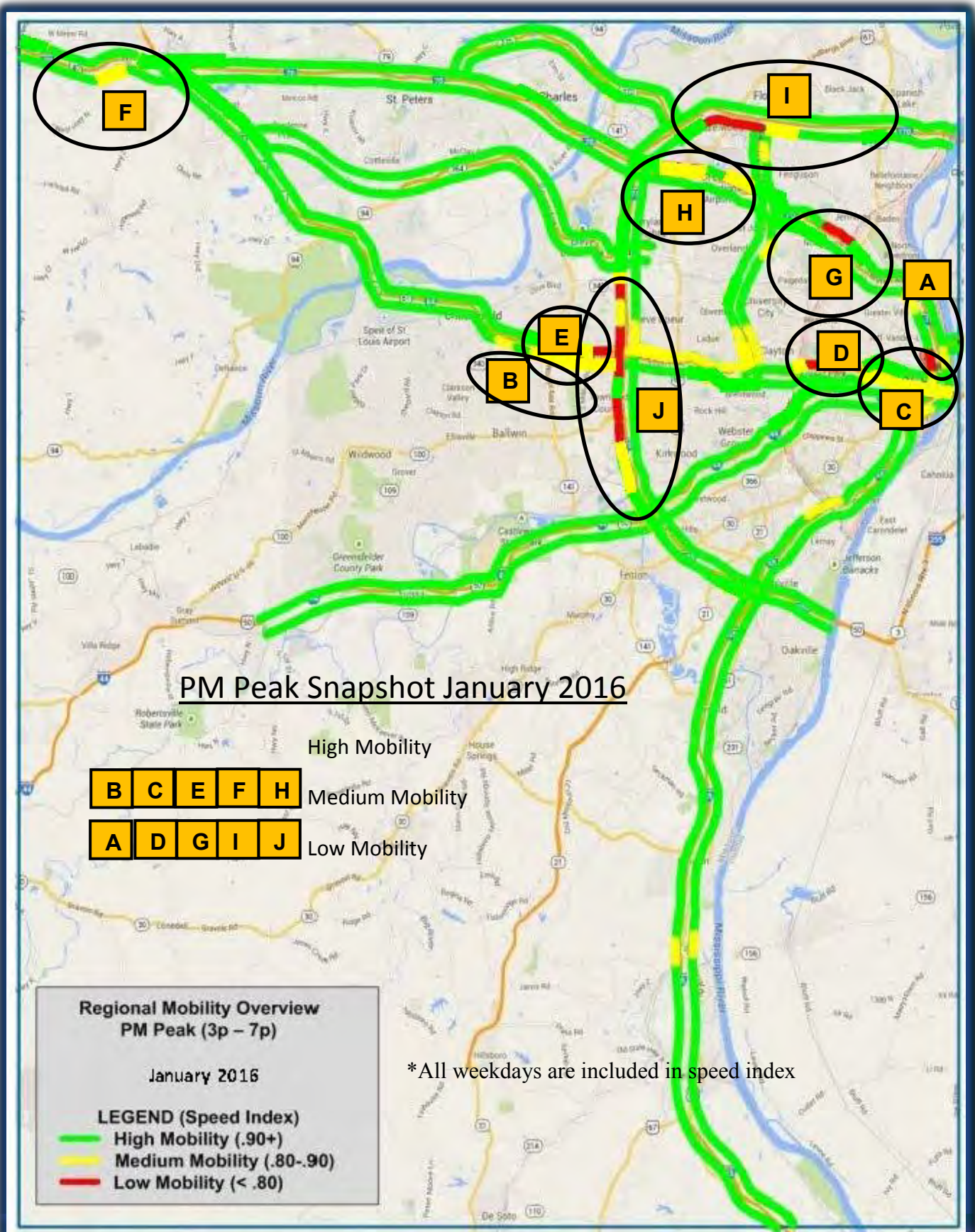




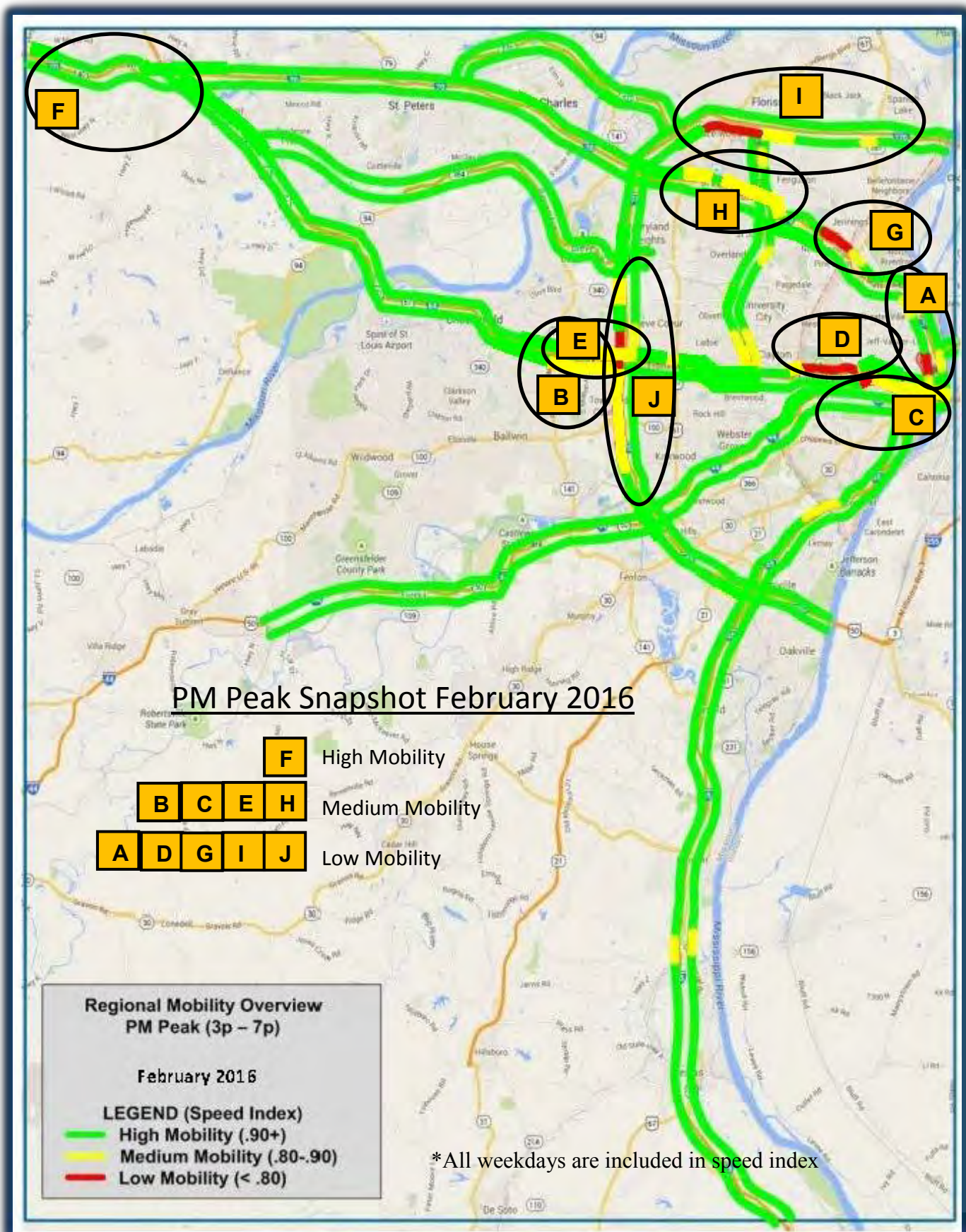
FREEWAY MANAGEMENT



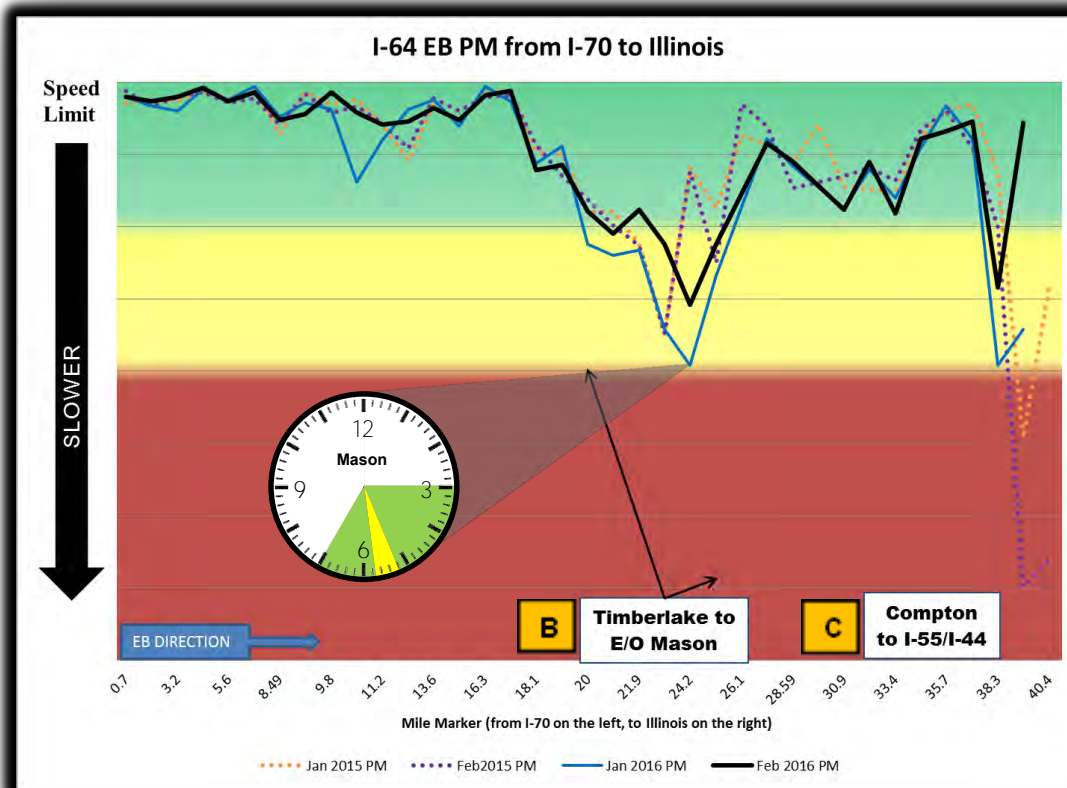
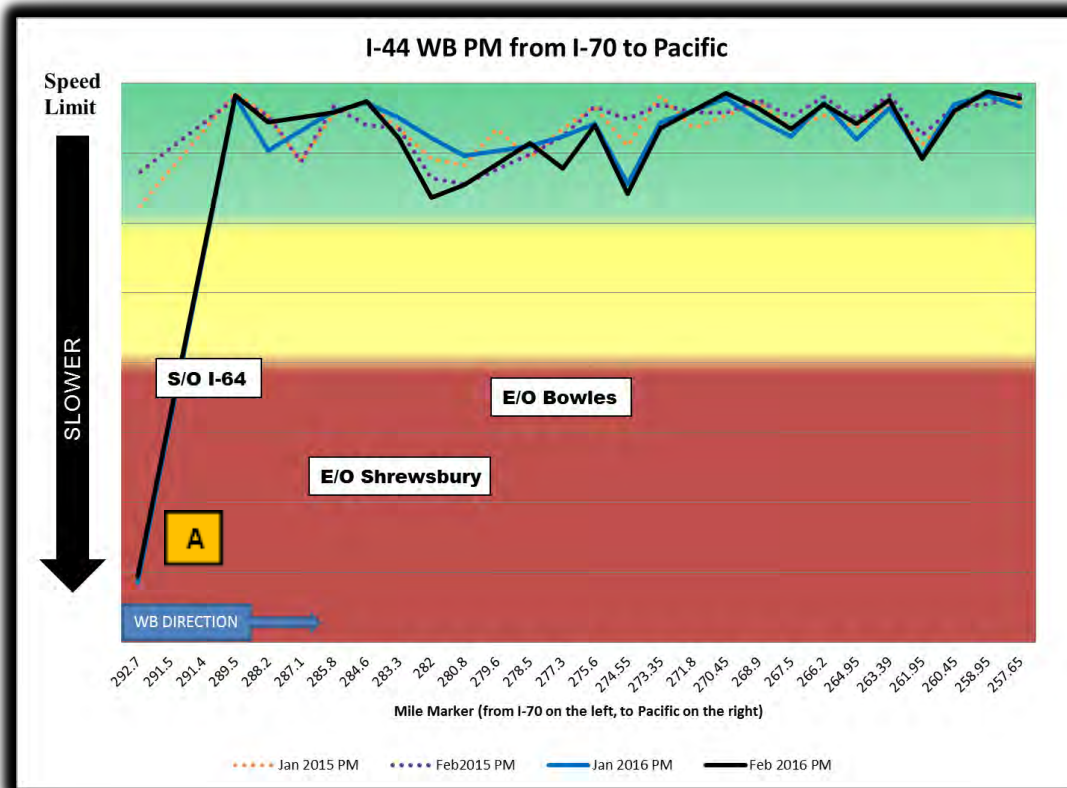
FREEWAY MANAGEMENT



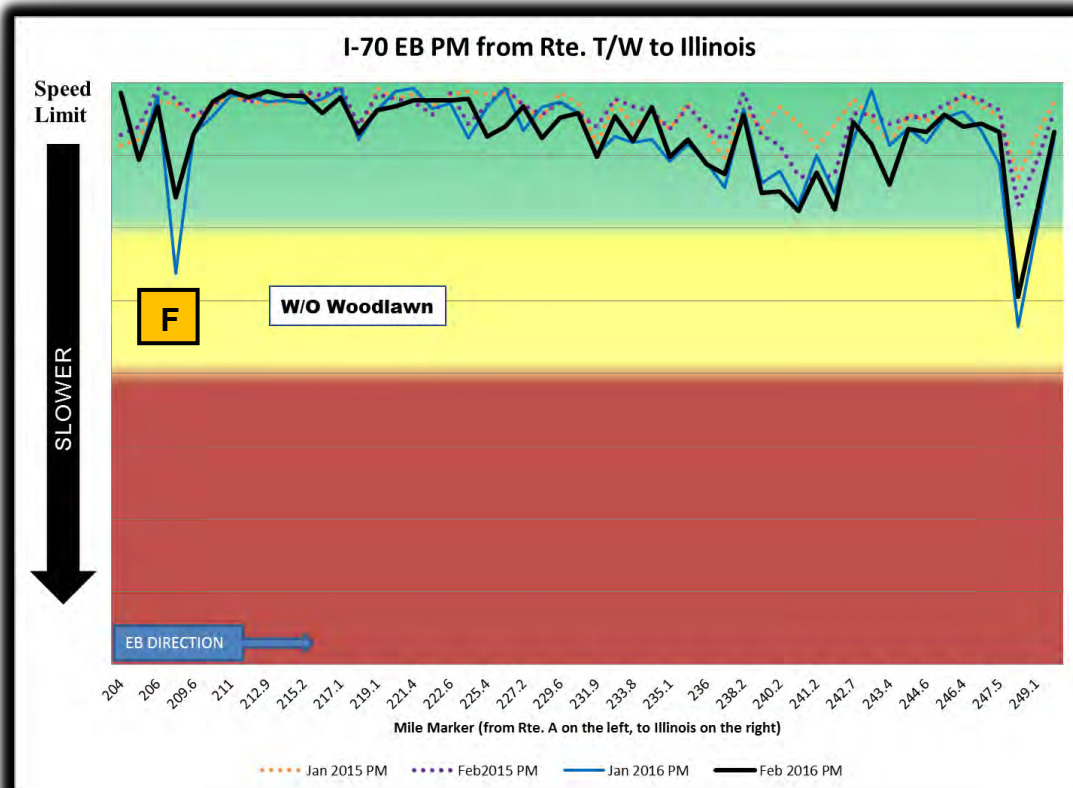
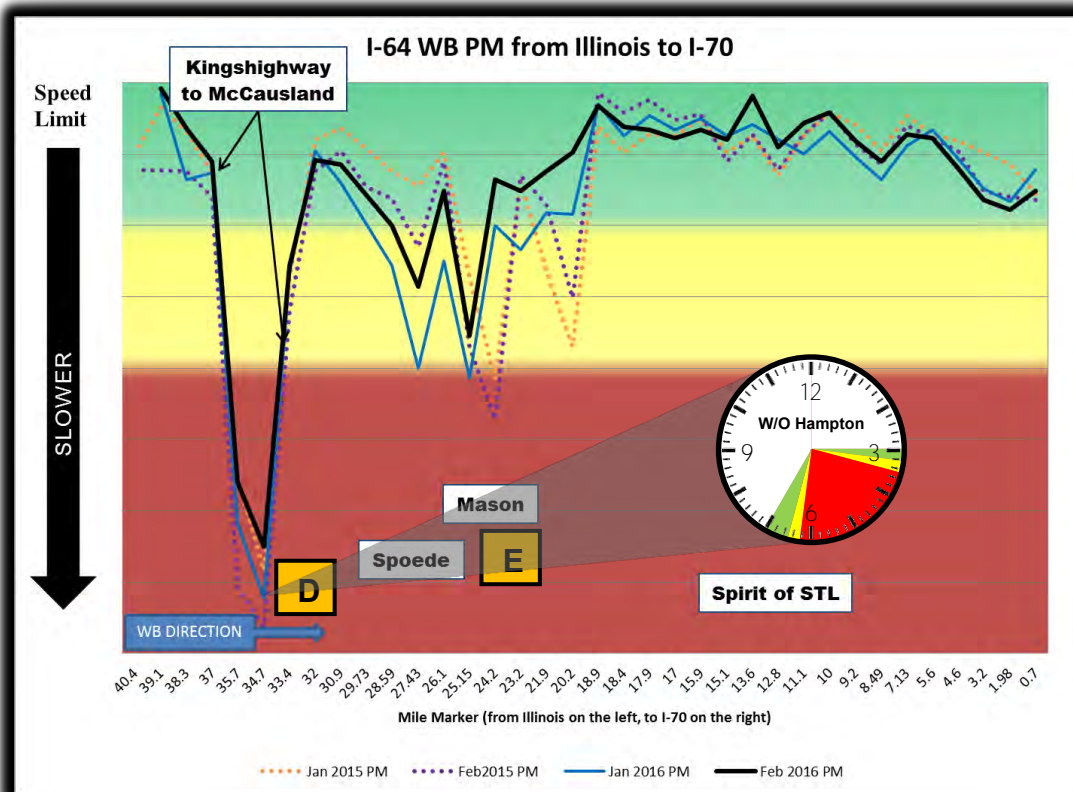
FREEWAY MANAGEMENT



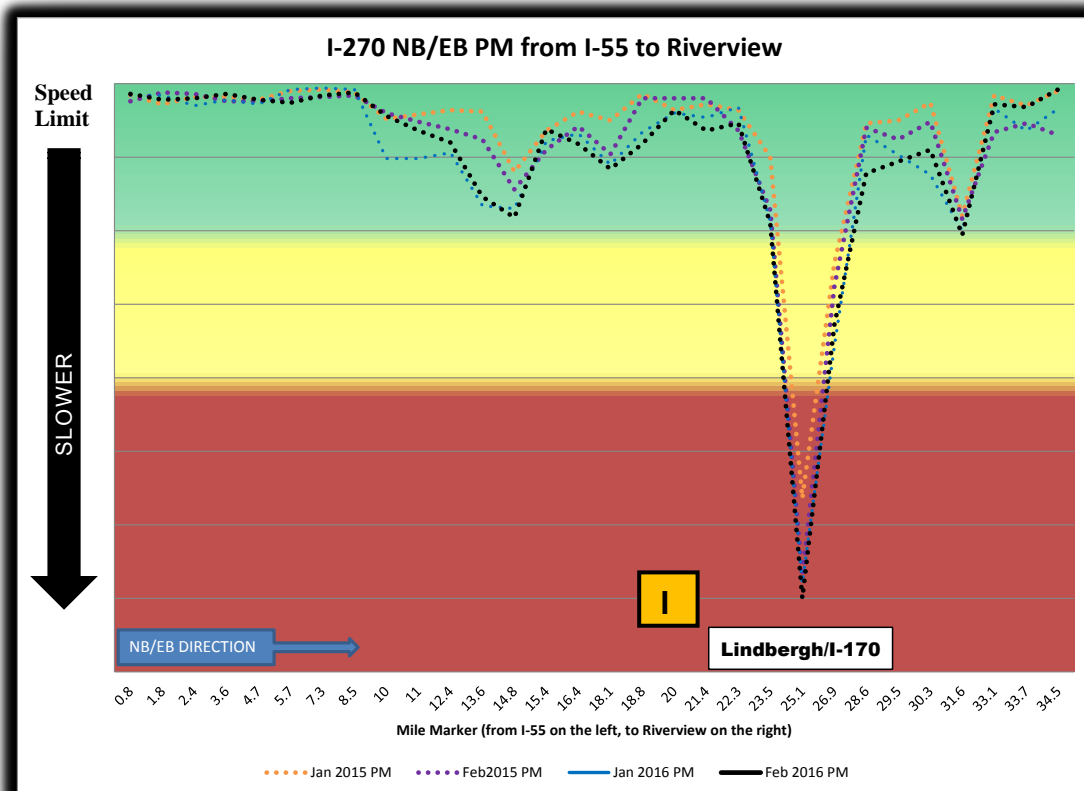
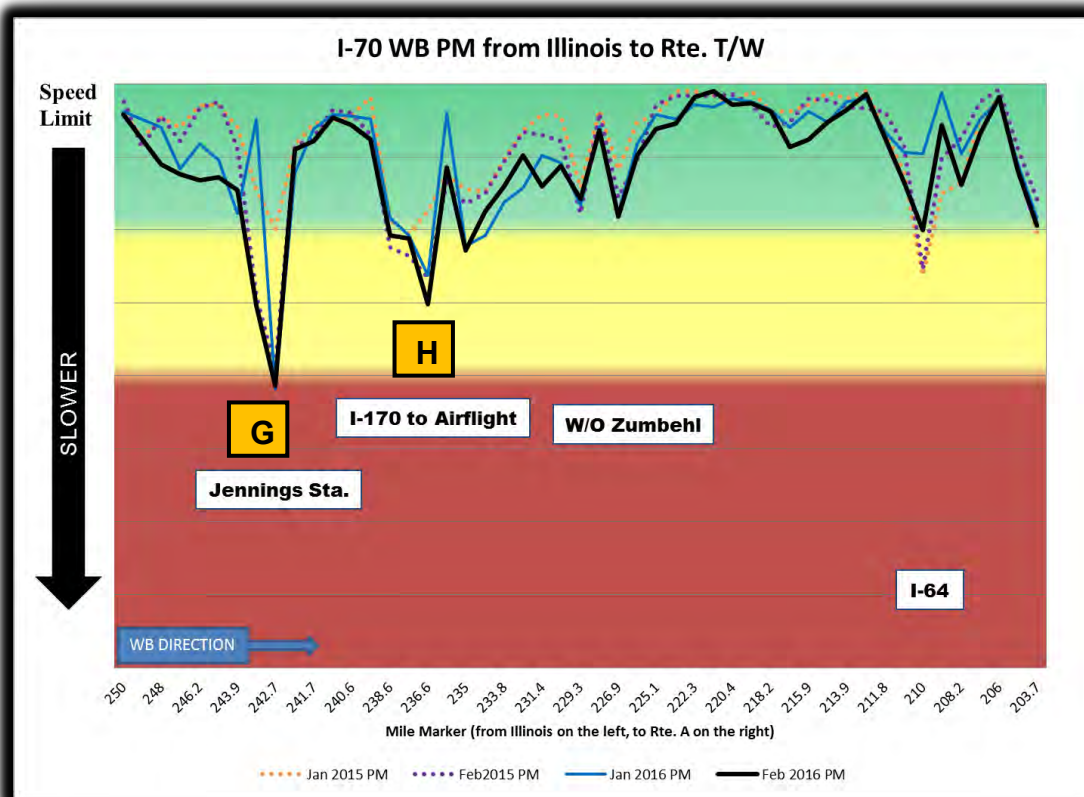
FREEWAY MANAGEMENT



FREEWAY MANAGEMENT

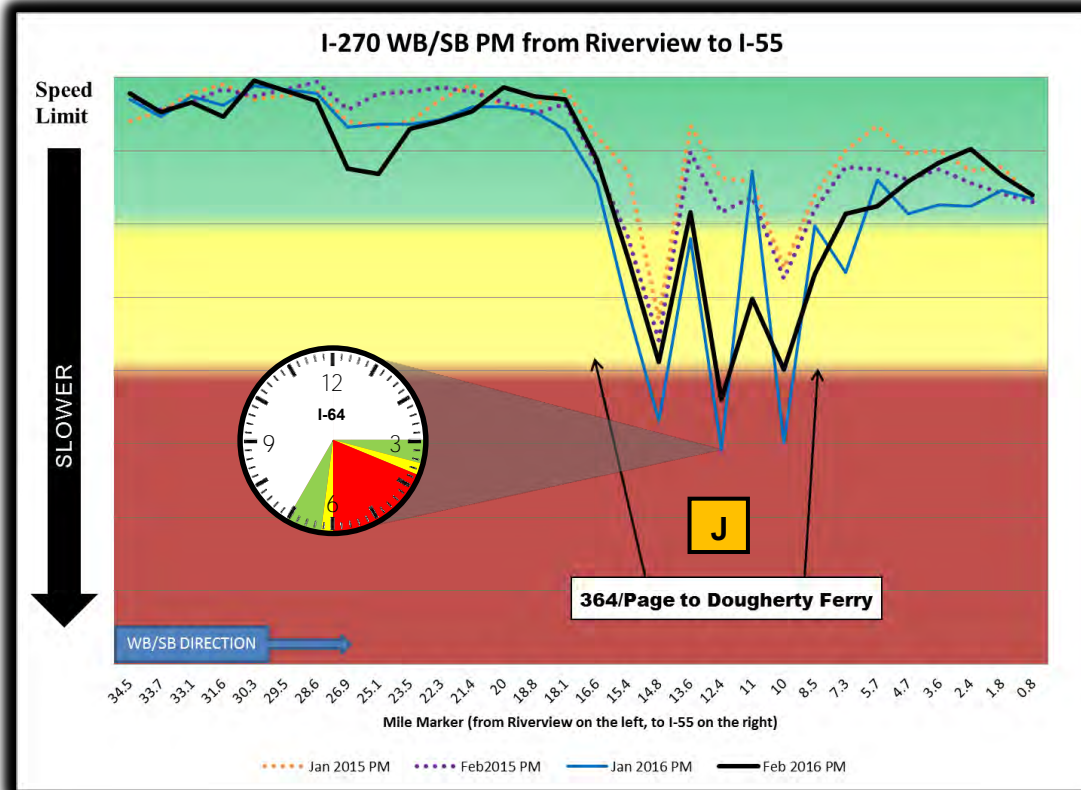


FREEWAY MANAGEMENT



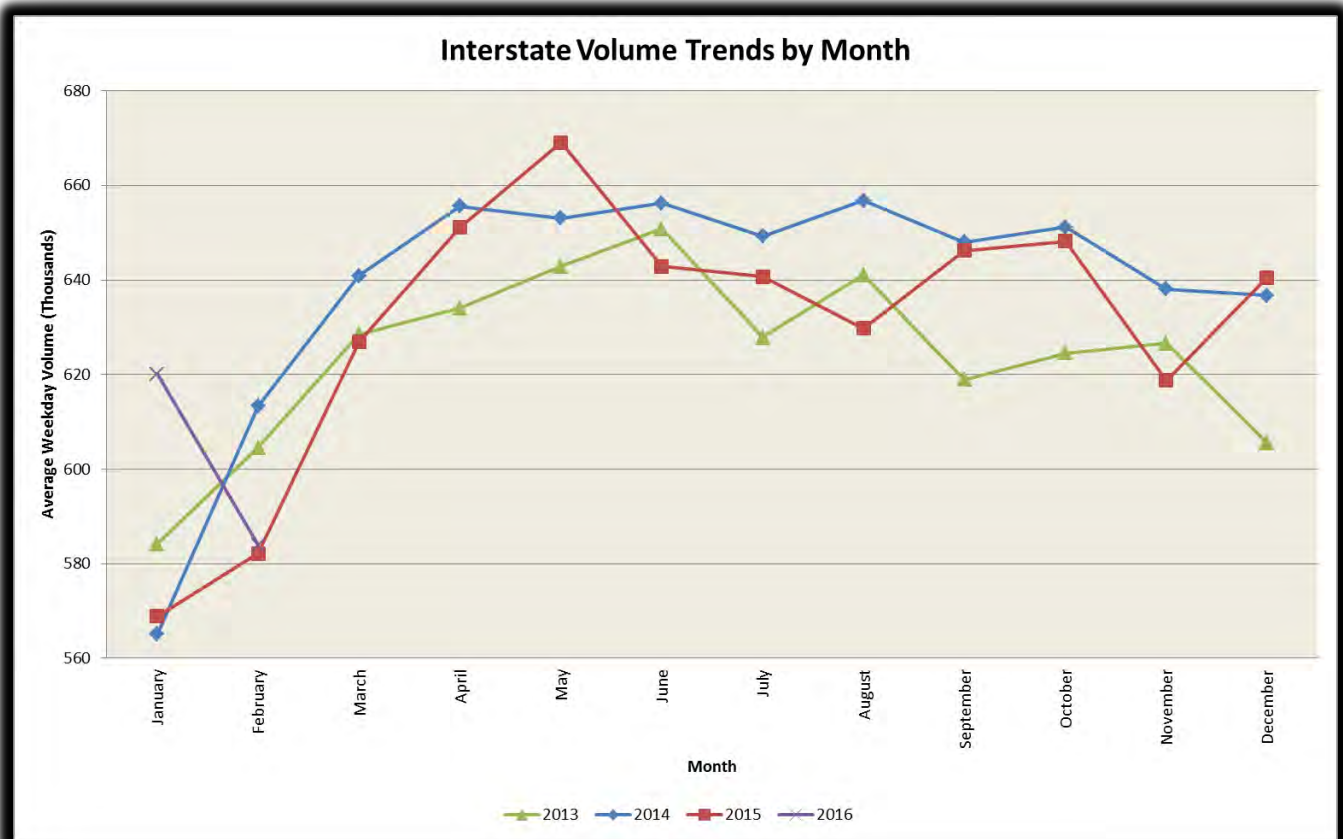


FREEWAY MANAGEMENT





FREEWAY MANAGEMENT





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
Major (Red) <u>IAR Event</u> SEVERE DISTRESS PRESENT Return of roadway to free flow traffic is Priority #1	15 minutes or above TMC and field personnel take all steps possible up to and including removal of lane closure to achieve free flow threshold	Immediate Action Required Supervisory mitigation assistance is required using the St. Louis District Work Zone Resolution Ladder as a tool to restore free flow traffic threshold
Moderate (Yellow) <u>IAR Event</u> CAUTIONARY STAGE: Action required by Field/ TMC to prevent escalation to a major event	10 – 14 minutes TMC increases driver messaging. Field begins efforts to restore free flow traffic	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



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.

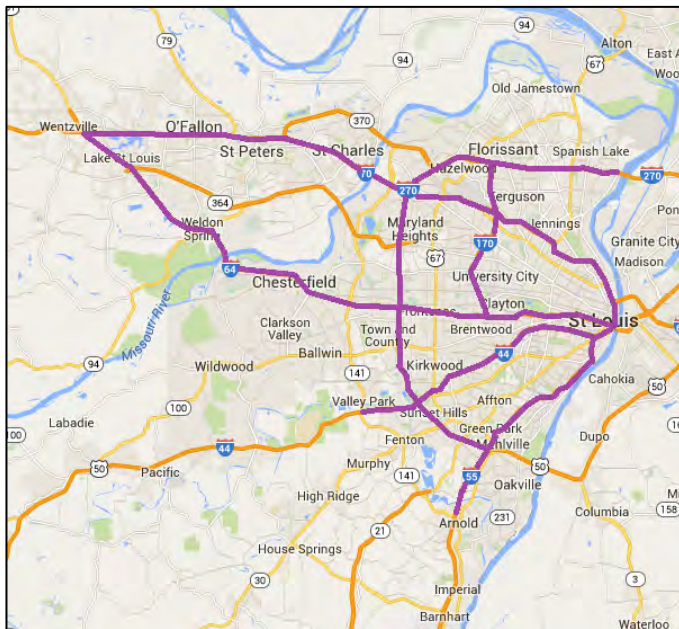
Minor Impact Traffic Incident – Lane closures < 30 minutes

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

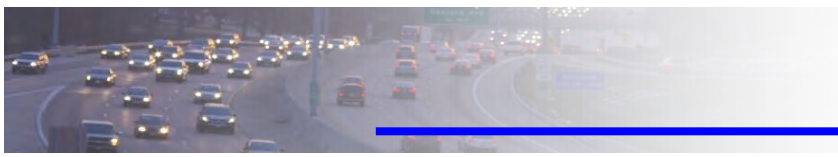
KC Scout – Gateway Guide's counterpart for the greater Kansas City Metropolitan area, a collaboration involving both MoDOT and the Kansas DOT

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

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 EASTBOUND

I-64 DISTRICT 6 WESTBOUND

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