

Northbound I-65 Bridge Closure...



'SHE CAME TO WIN' Purdue-bound blind pole vaulter medals at state meet Sports, 1D

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JOURNAL & COURIER

SUNDAY, MAY 17, 2015 | LAFAYETTE - WEST LAFAYETTE | A GANNETT COMPANY

NIGHTMARE ON INTERSTATE 65



MORE THAN
\$240
IN COUPONS
INSIDE TODAY!



PROVIDED BY KYLE MARTIN
Lafayette police and Tippecanoe County Sheriff's deputies staged in the area of a home on South Third Street in Lafayette. Sheriff Barry Richard confirmed that the fugitive jail escapee, Marcus Alan Bramlett, had been holed up inside the house.

Fugitive surrenders
Suspect apprehended without

April 2007 Team



Dec 2015 Team



Topics

1. Probe Data

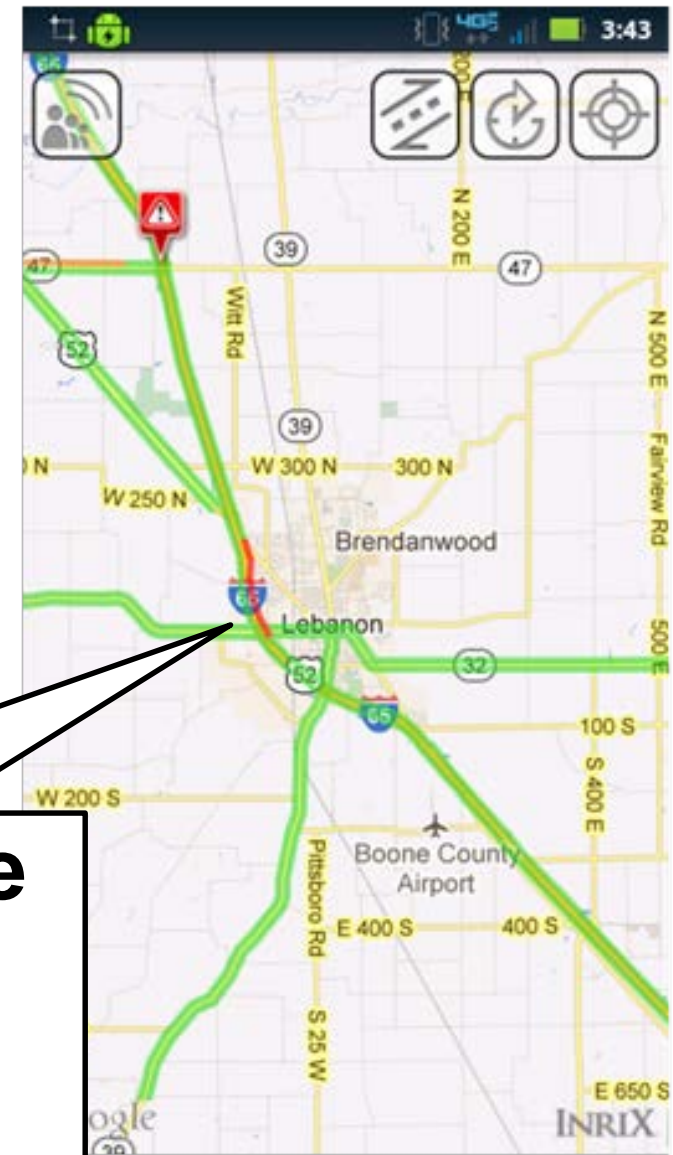
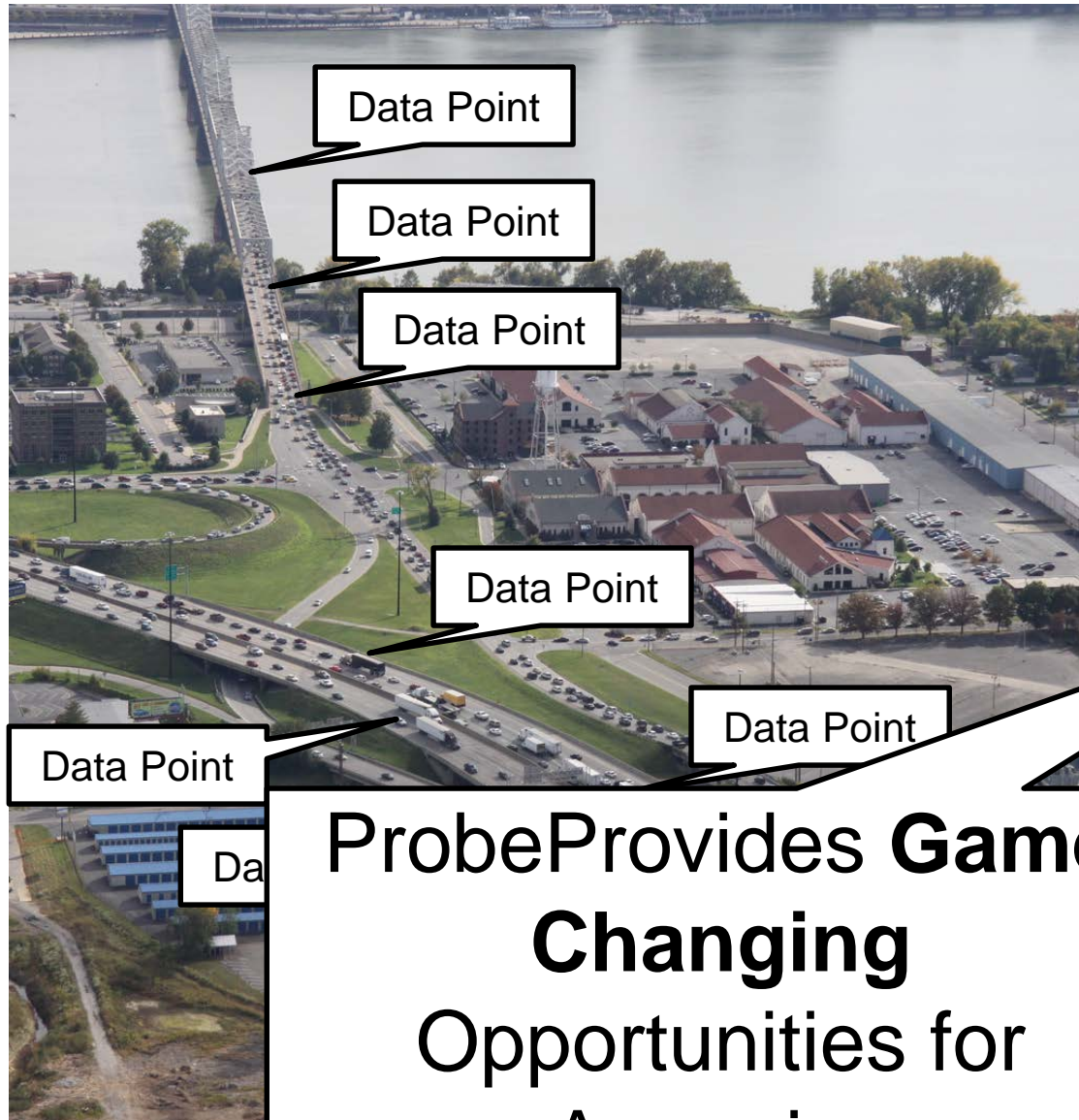
2. Evolving Perspective on

- Probe Data Dashboards (spatial) and
- Purdue Traffic ticker (temporal)
.... with some Iowa Examples

3. Traffic Ticker Applied to I-65 Detour

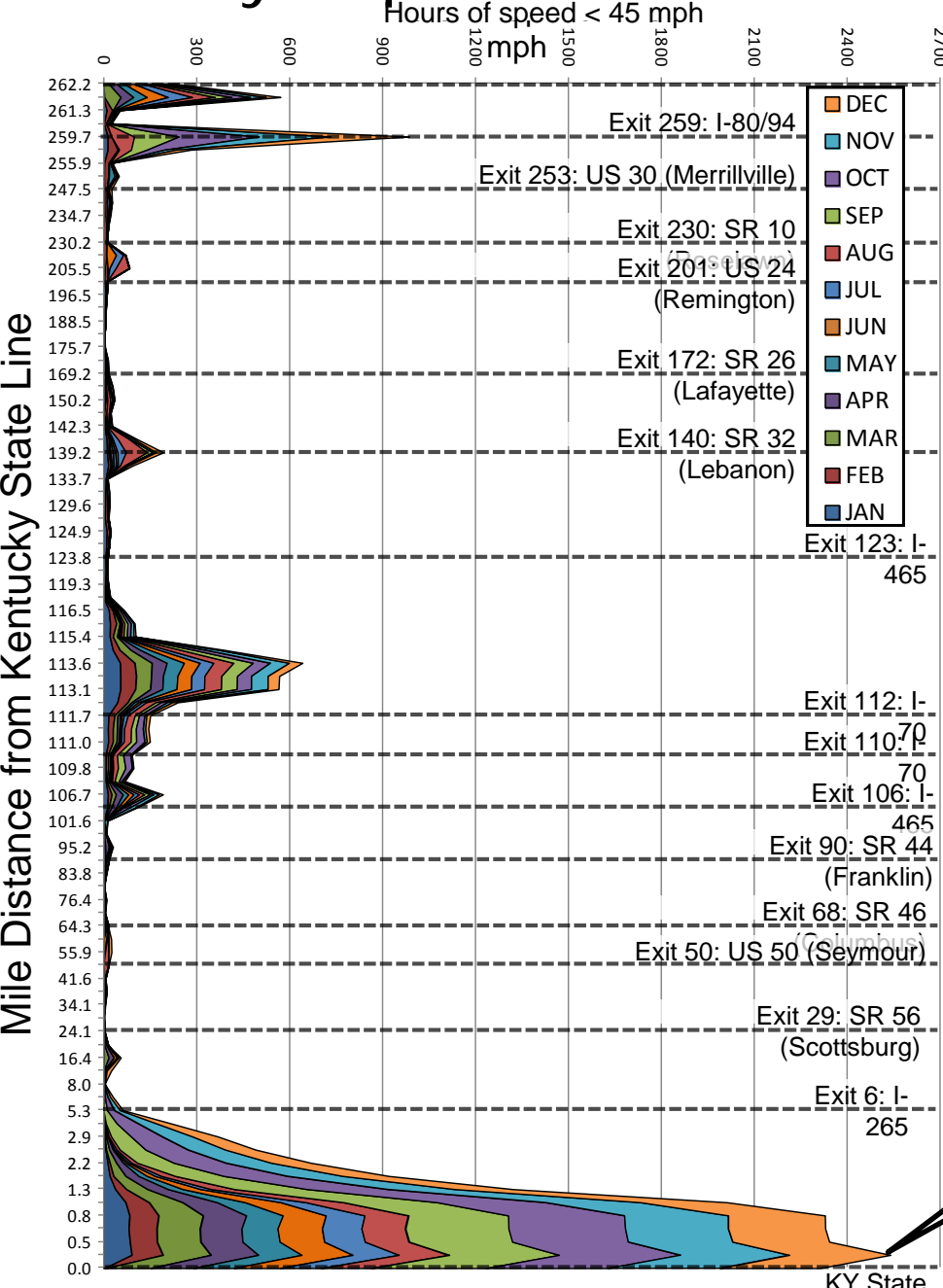
Probe Vehicle Data History

Crowd Sourced Data (Independent of Graduate Student Travel)

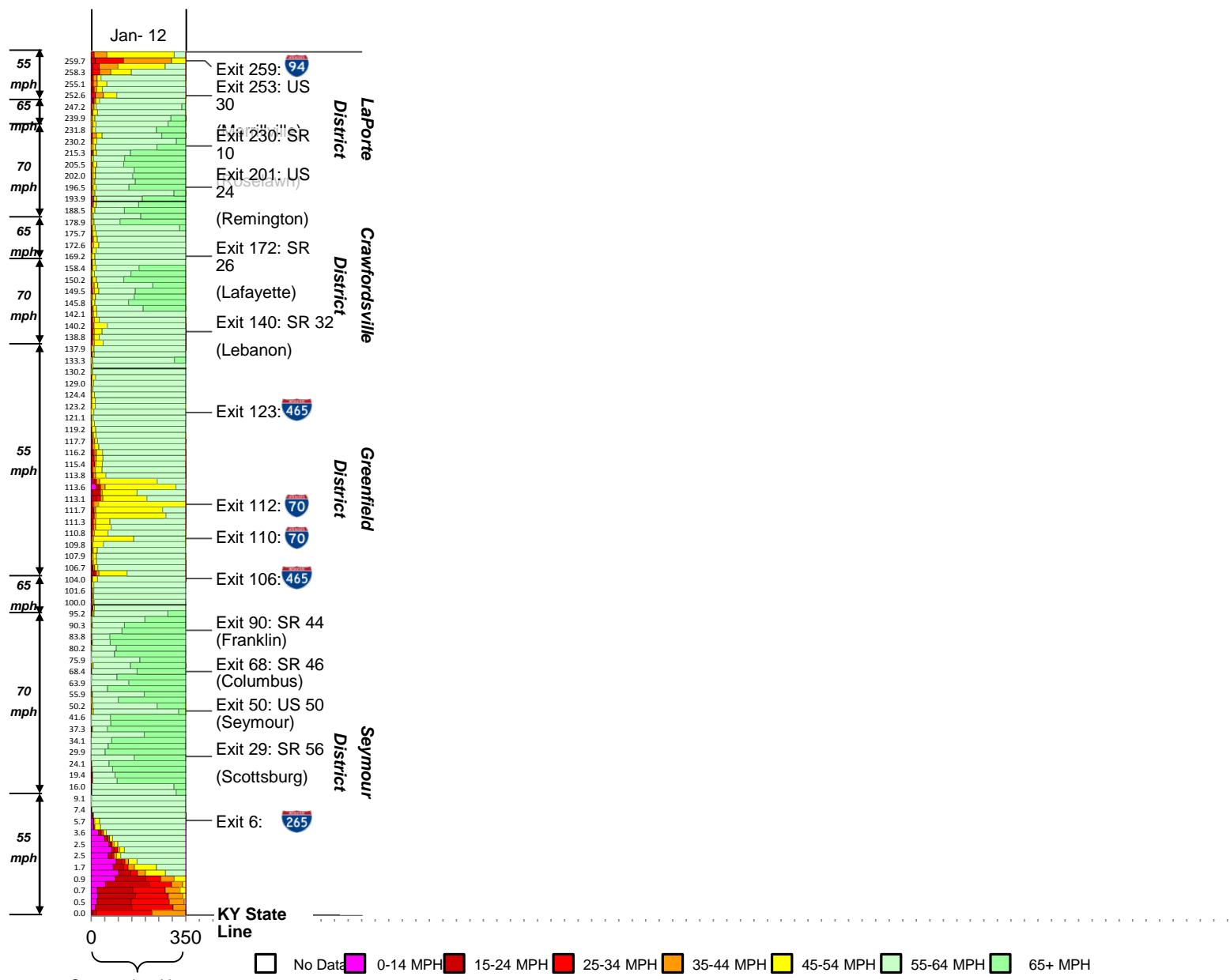


Probe Provides **Game Changing** Opportunities for Agencies

Mobility Report Performance Measures



Mobility Report Performance Measures



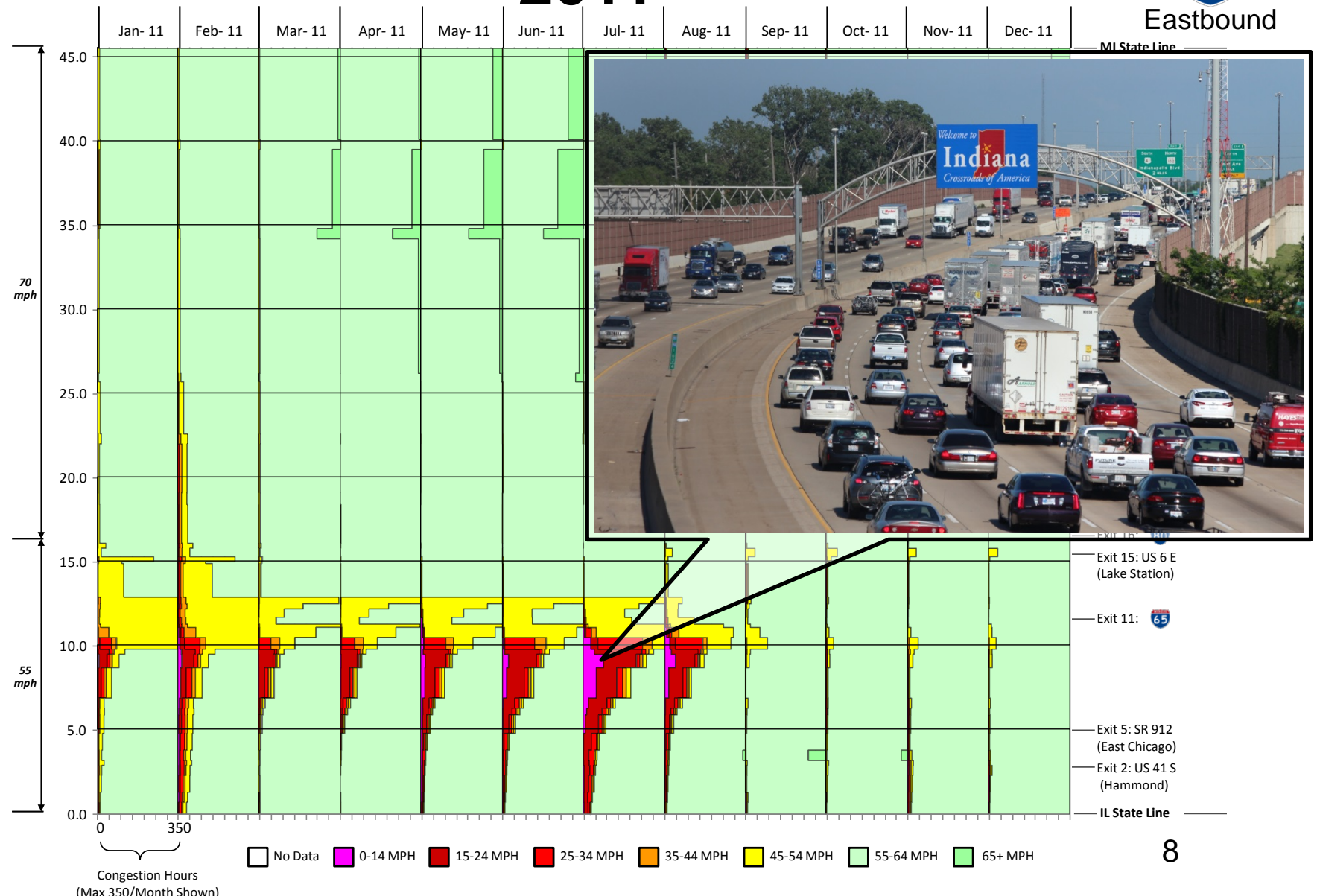
Mobility Report Performance Measures

2012 Performance Measures: Speed Profile Diagrams

2011



Eastbound

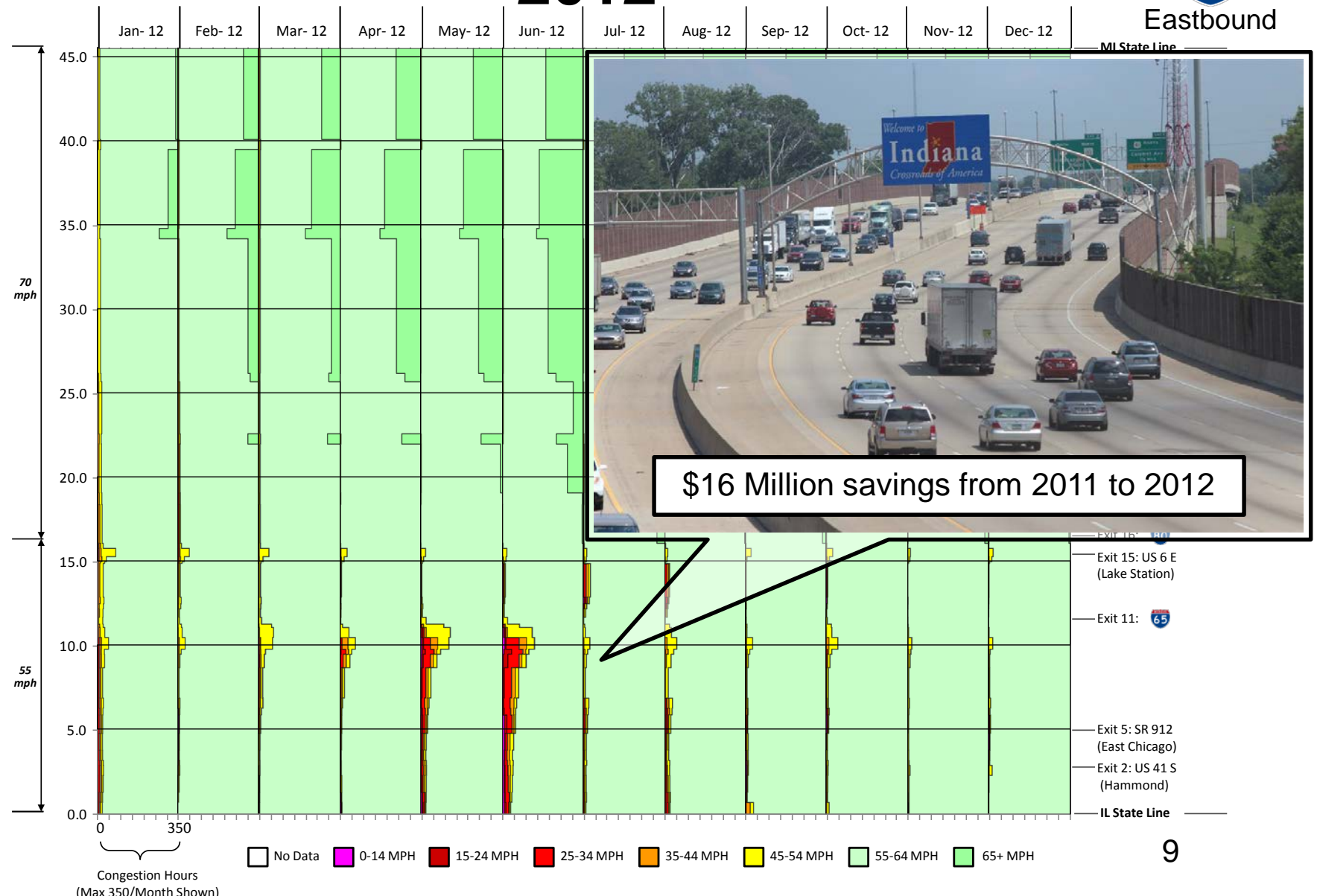


Mobility Report Performance Measures

2012 Performance Measures: Speed Profile Diagrams

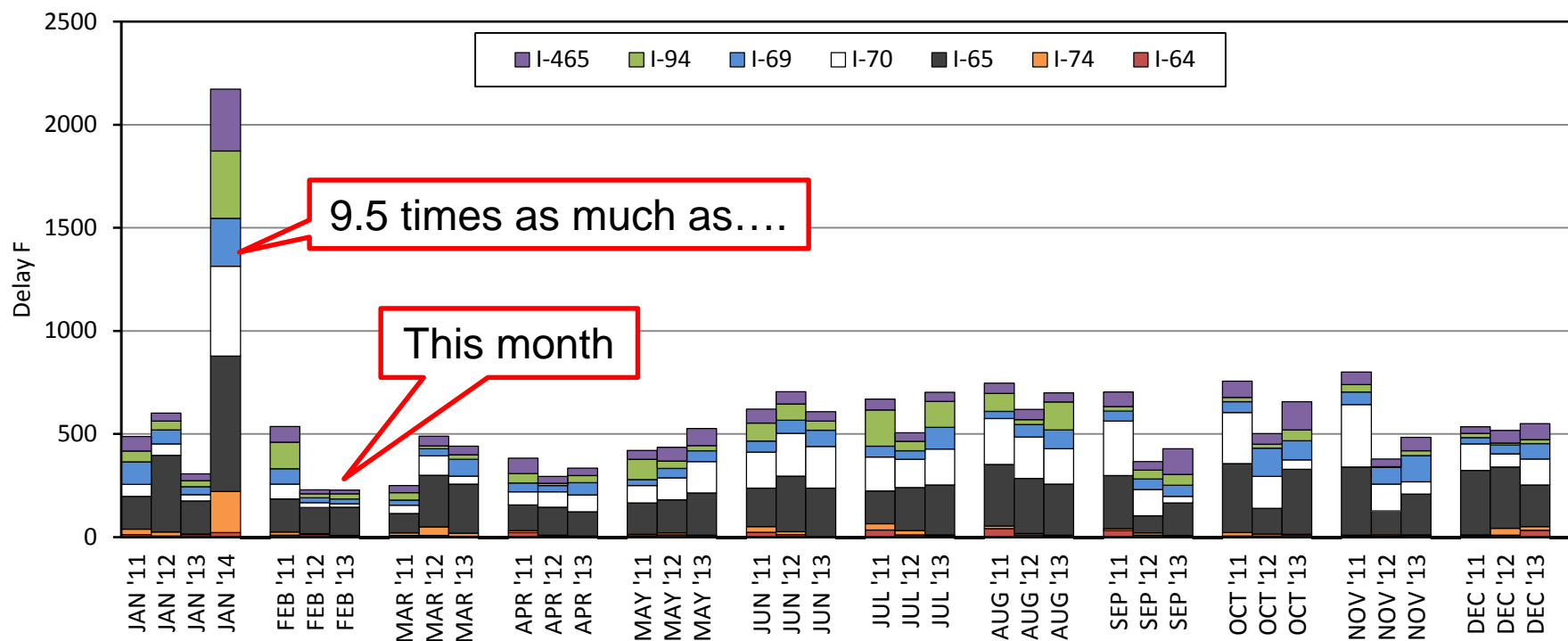


Eastbound



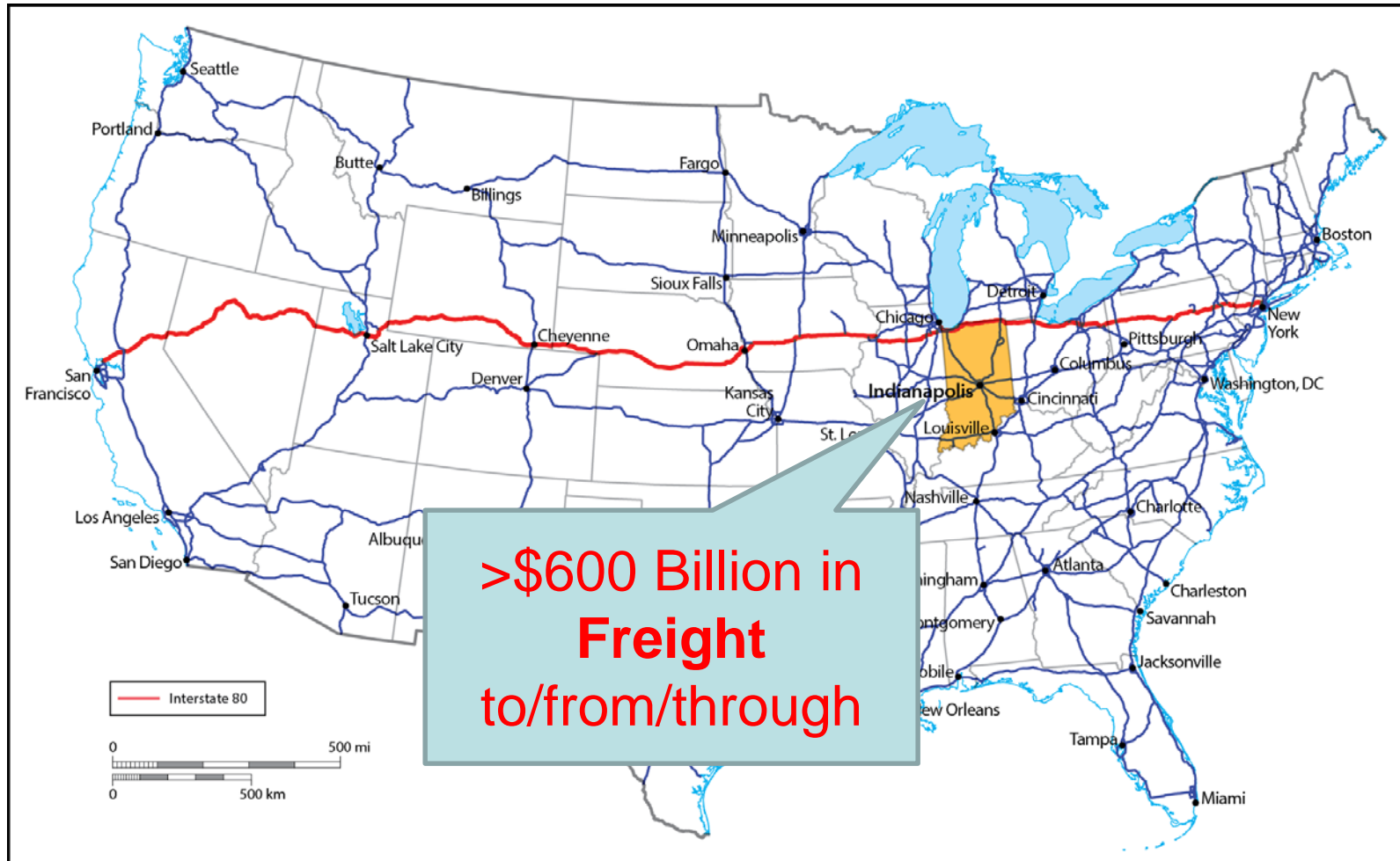
Indiana Delay₄₅ Summary

2011, 2012, 2013, Jan 2014



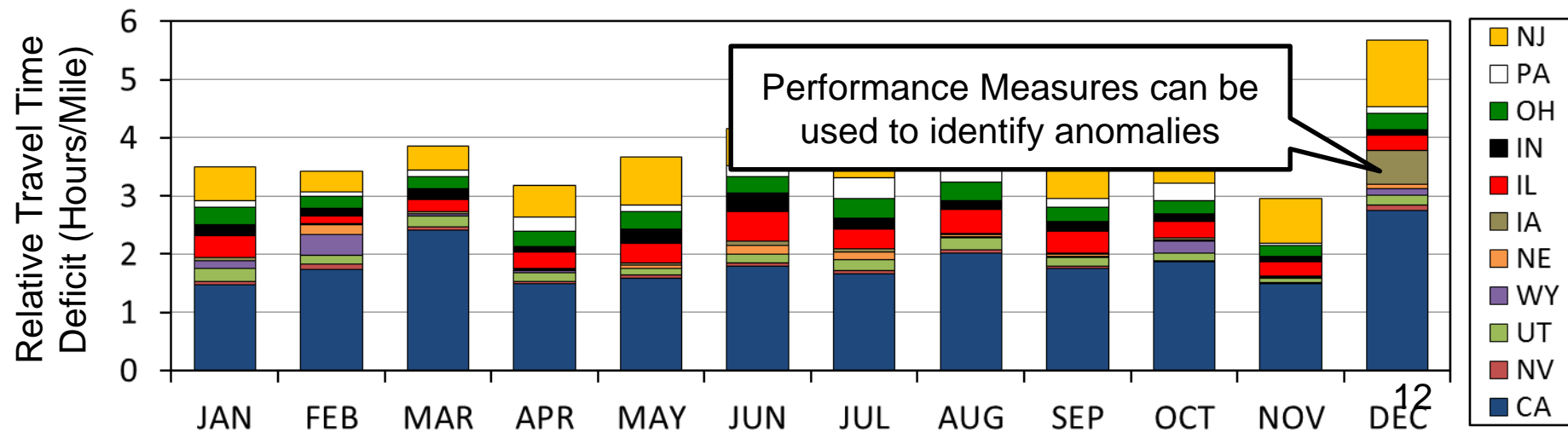
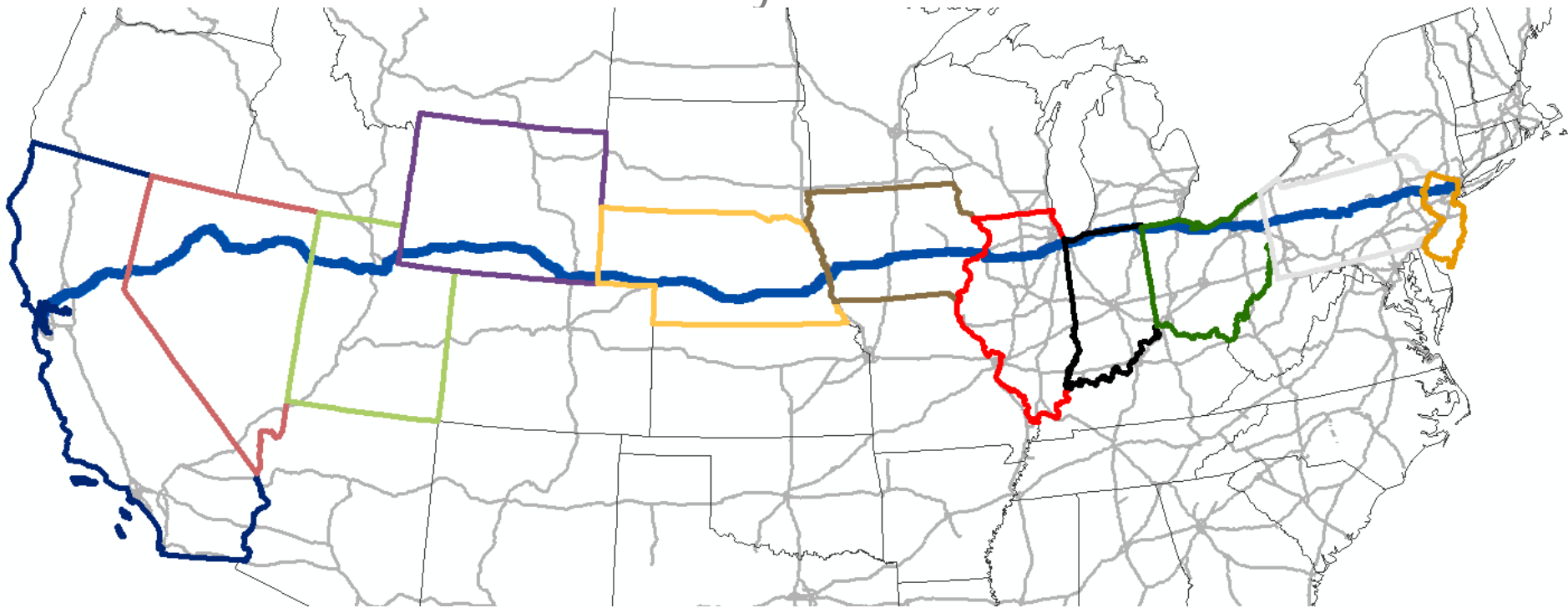
National Performance Measures

Where are the Problems Nationally?



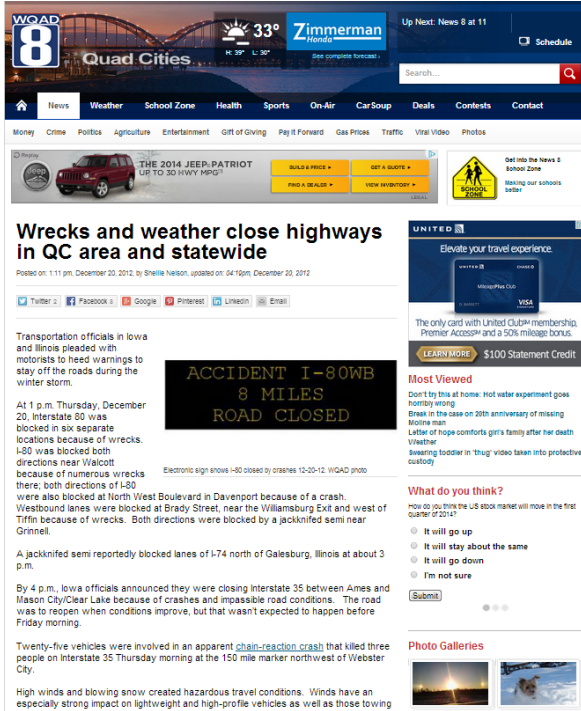
National Performance Measures

Where are the Problems Nationally?

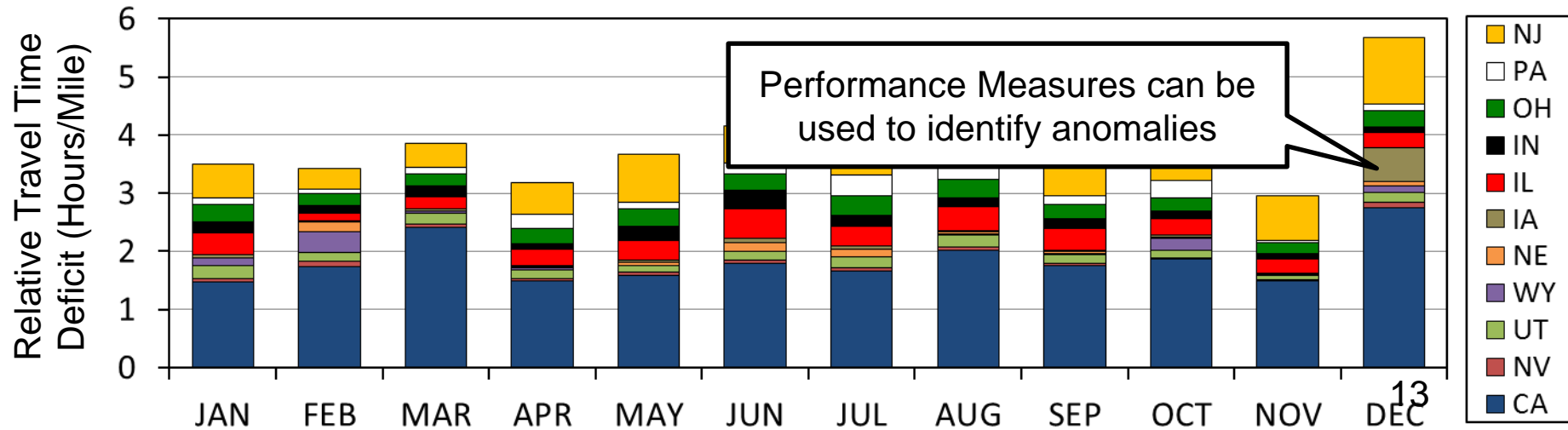


National Performance Measures

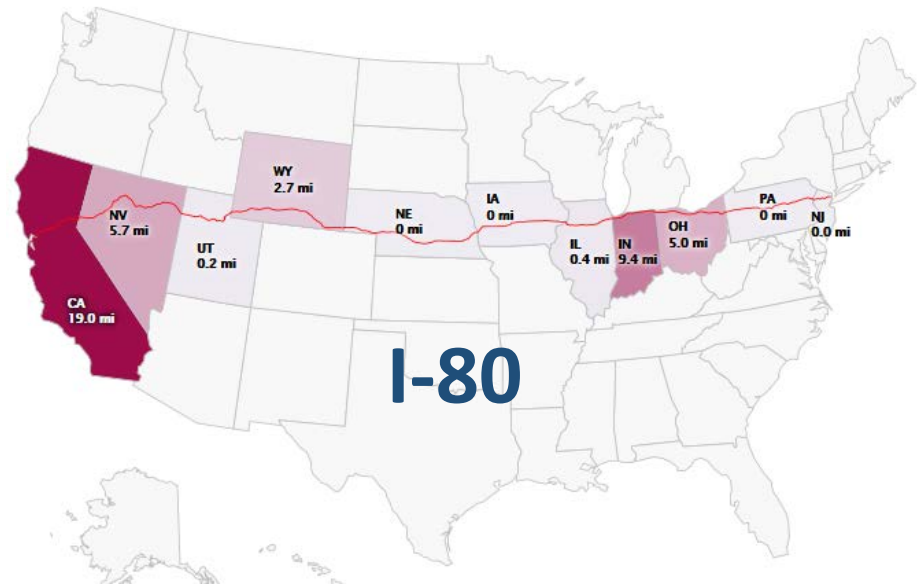
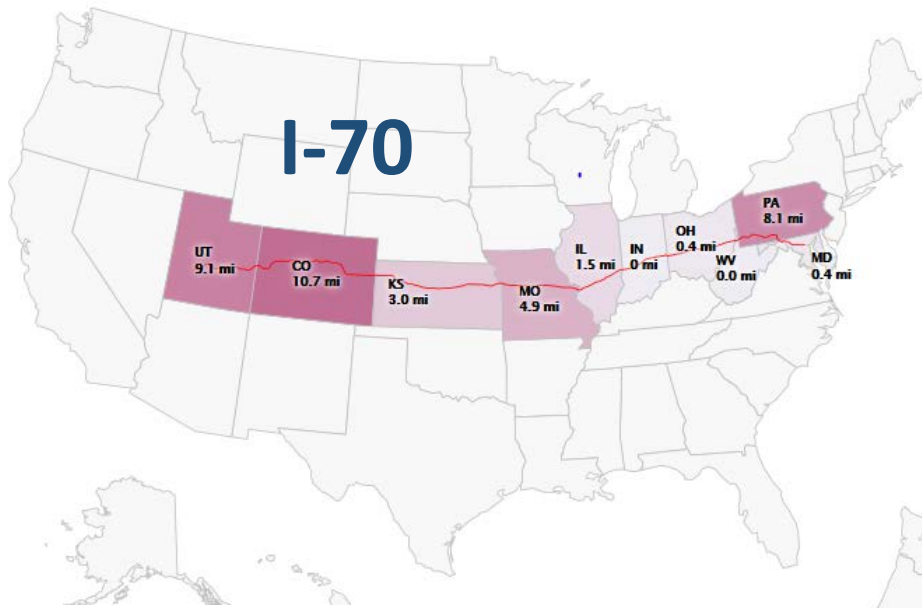
Iowa December 2012

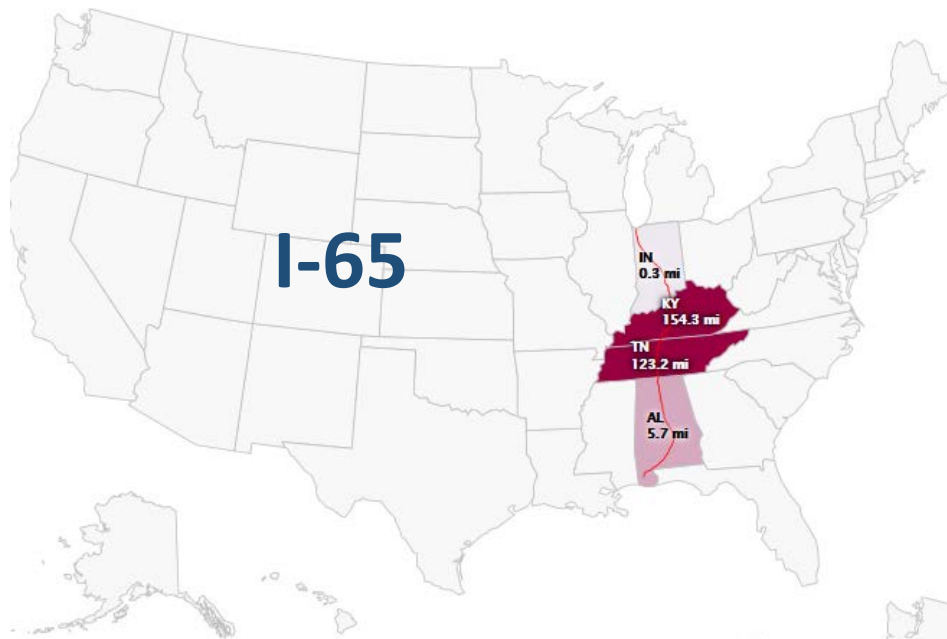


Iowa Interstate 80 – December 20th, 2012

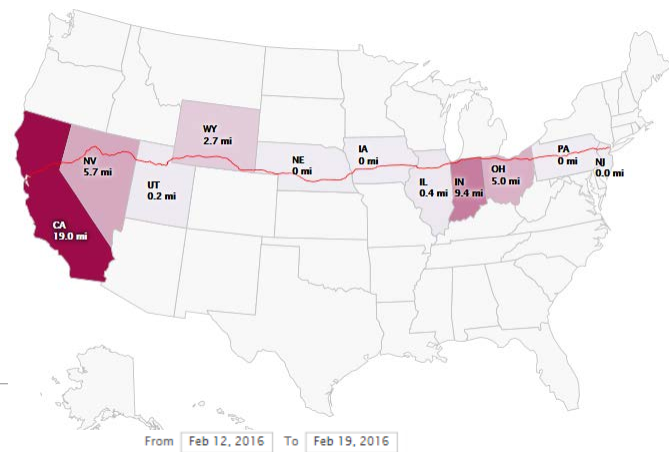


National Traffic Ticker





I-80: Coast to Coast

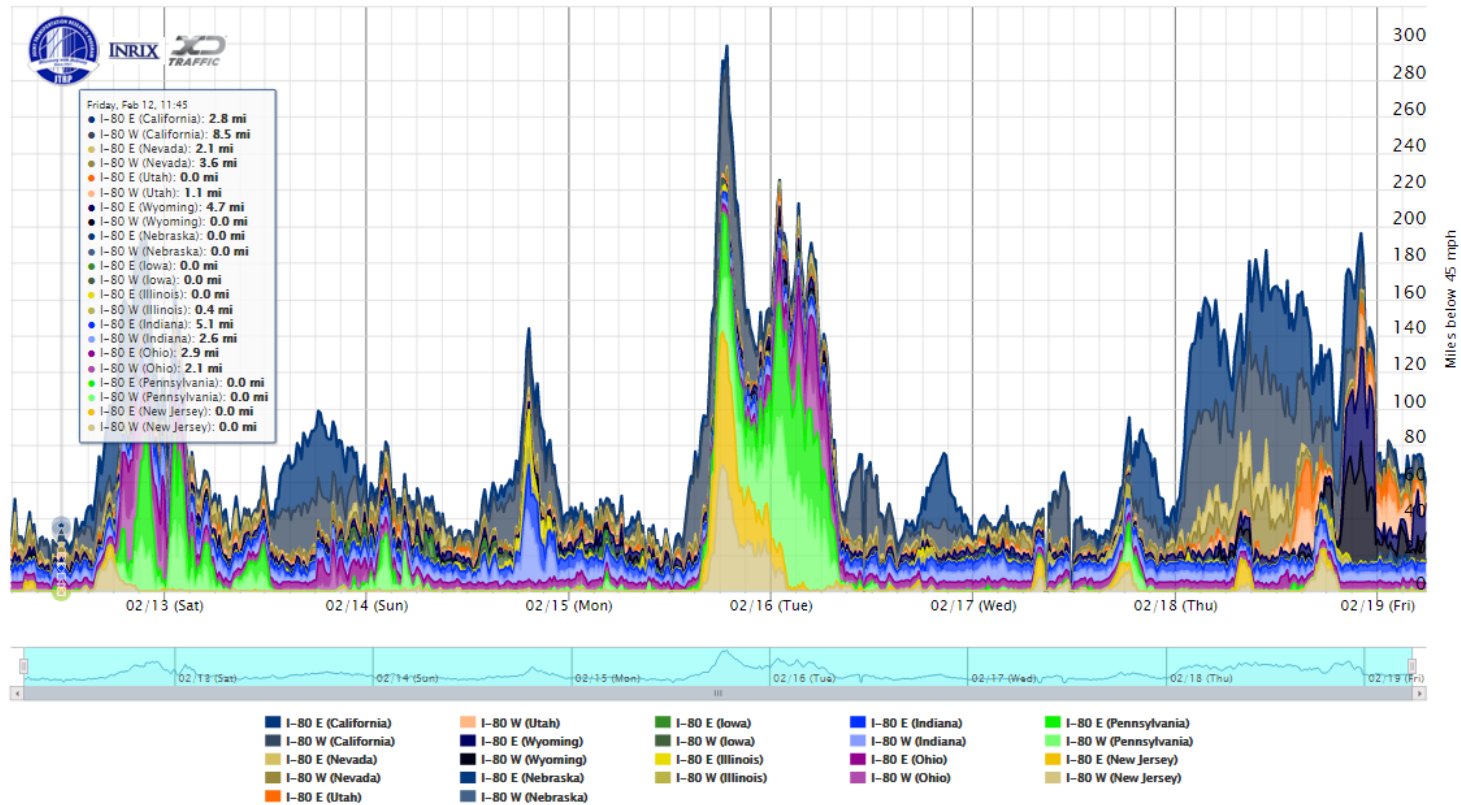


I-80

I-80 Congestion Ticker

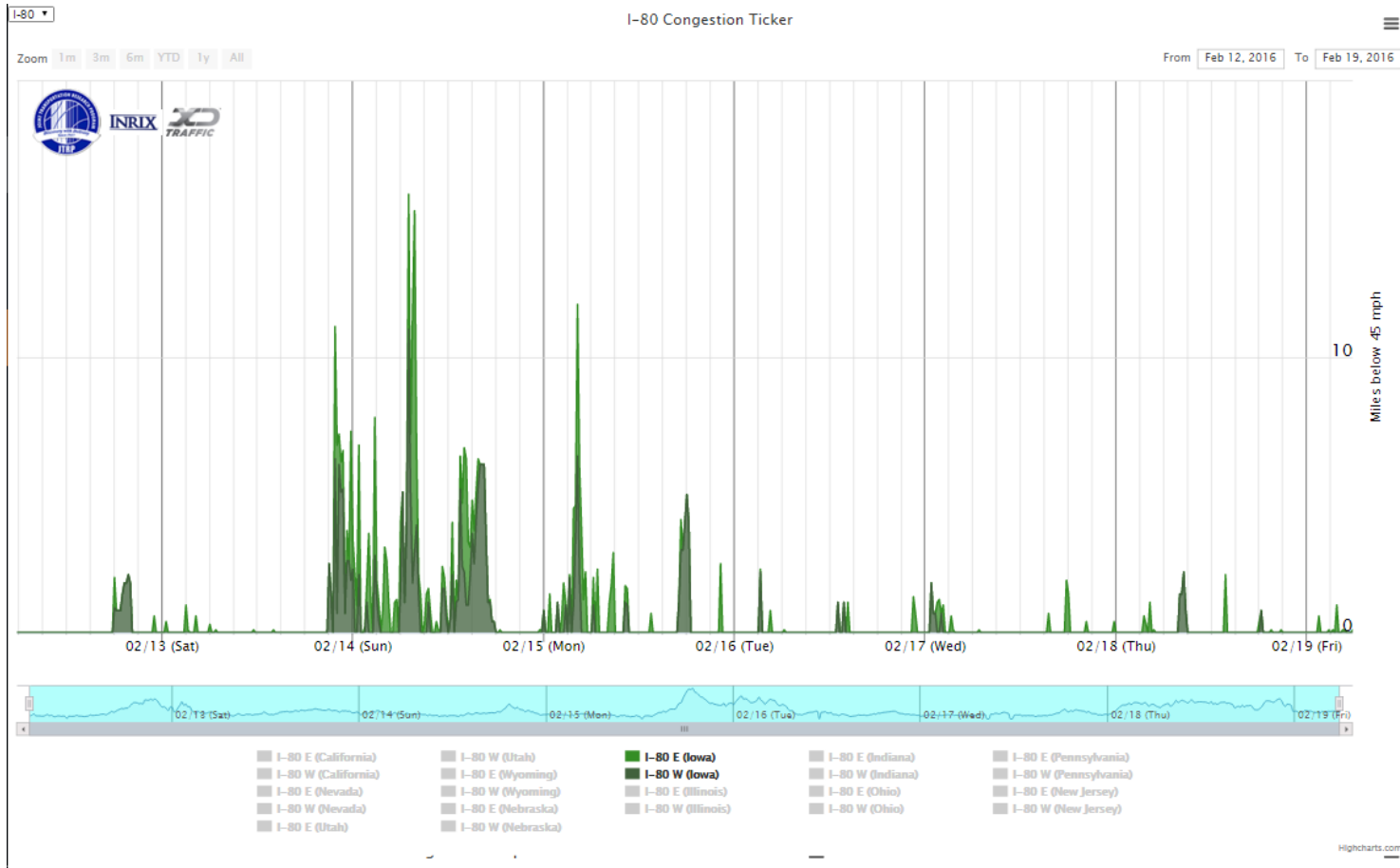
Zoom 1m 3m 6m YTD 1y All

From Feb 12, 2016 To Feb 19, 2016

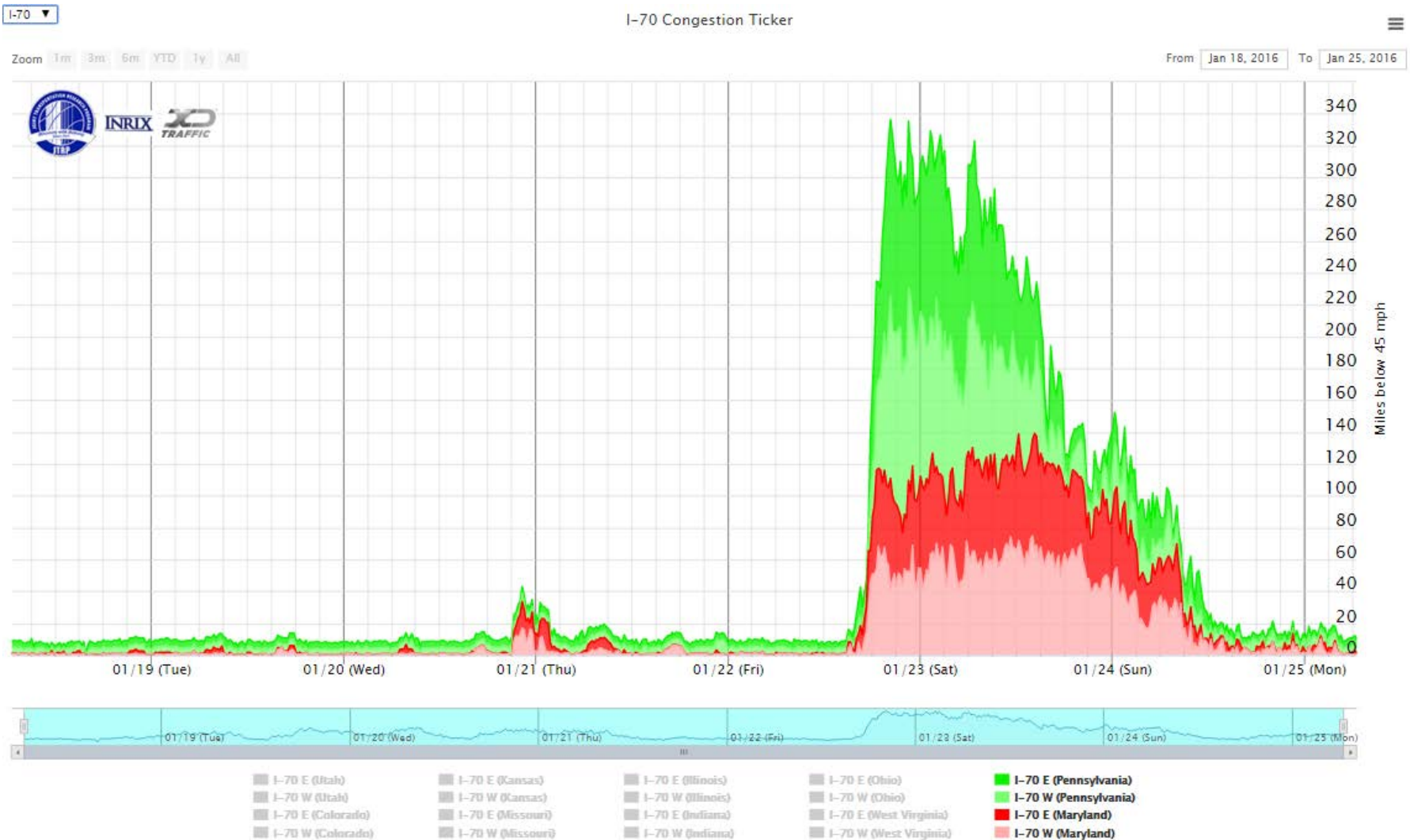


Highcharts.com

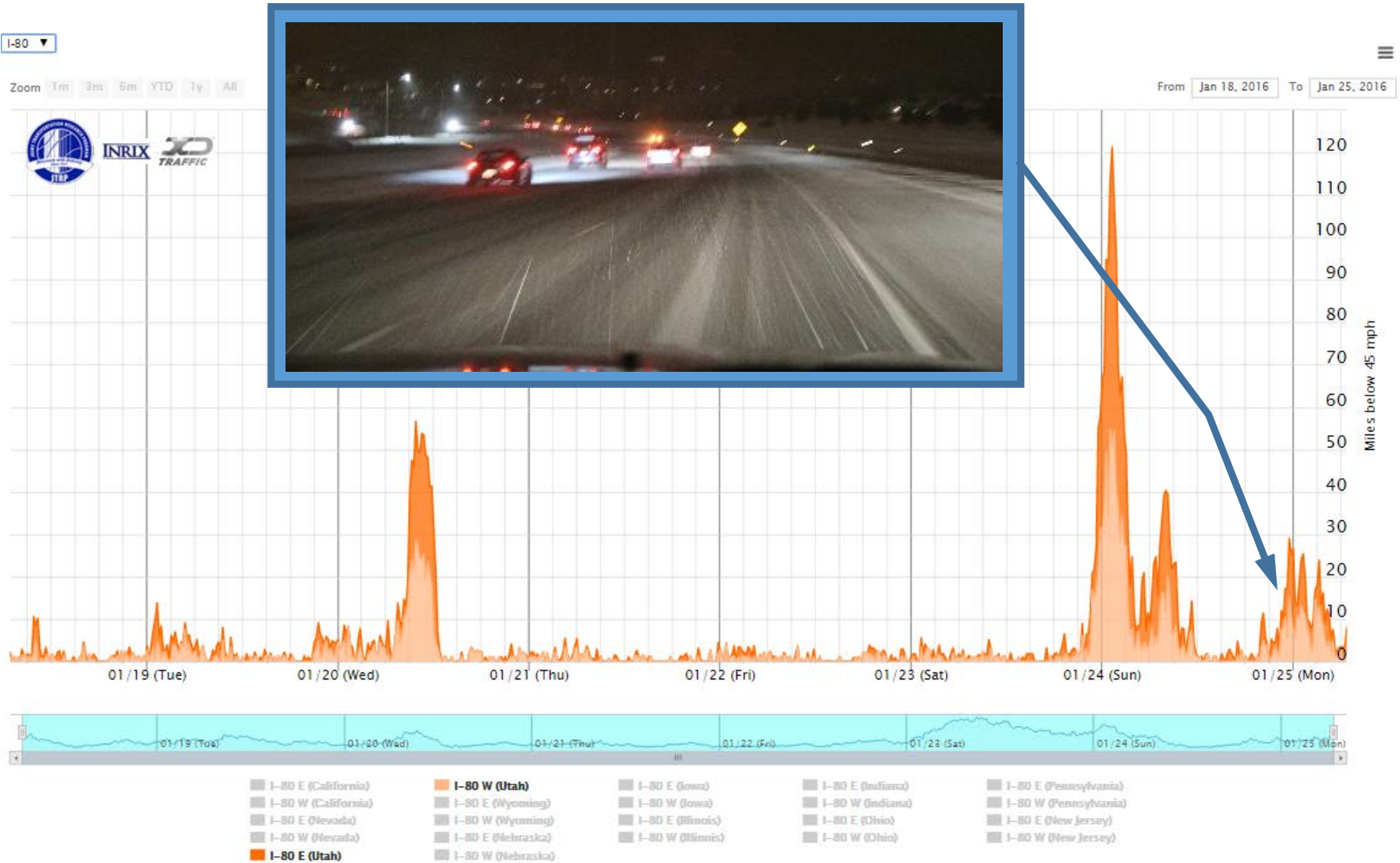
I-80: Iowa This week



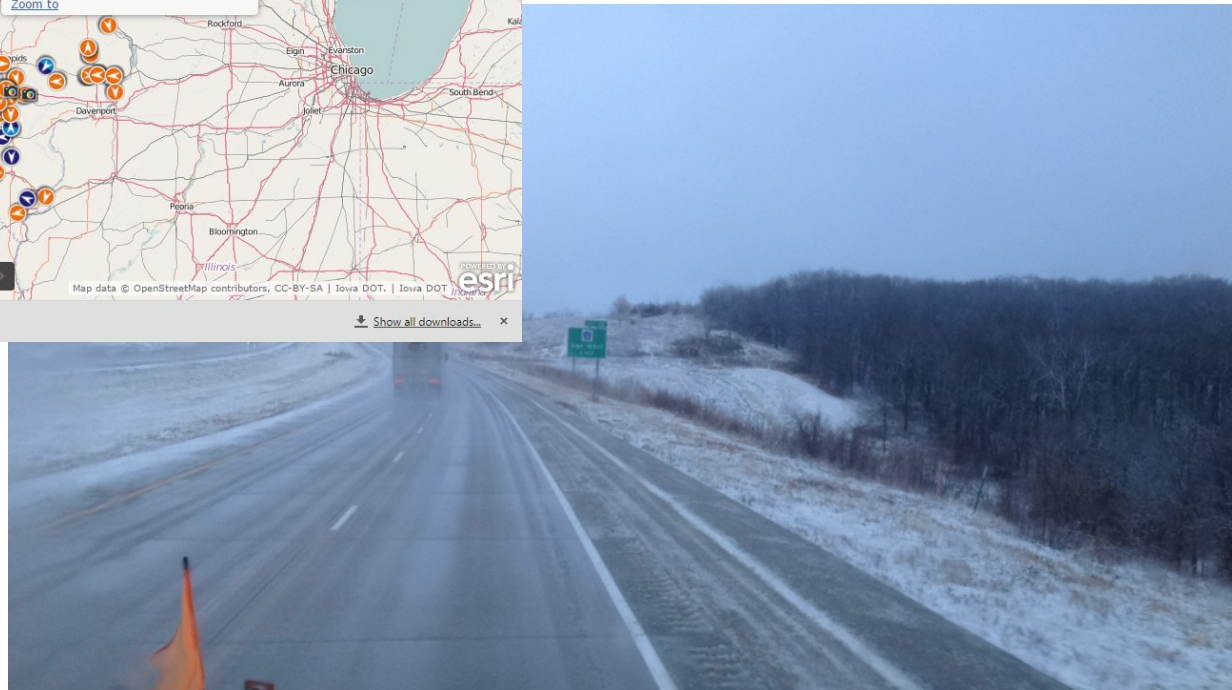
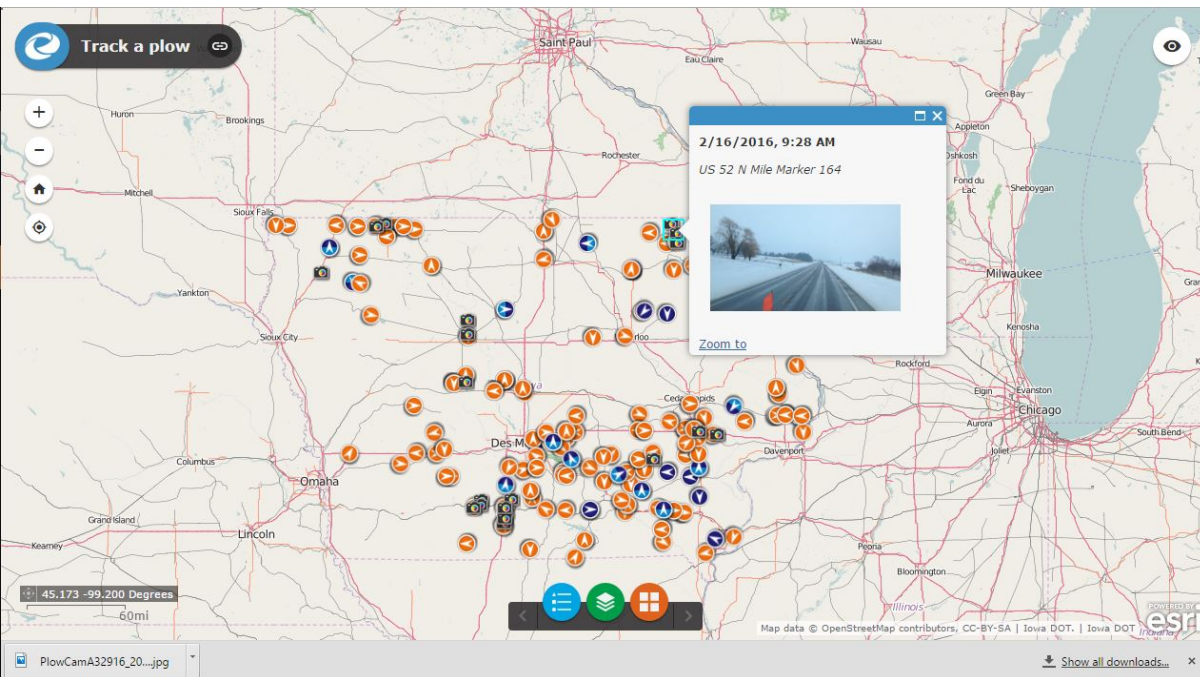
I-70 East Coast Blizzard Impact/Recovery



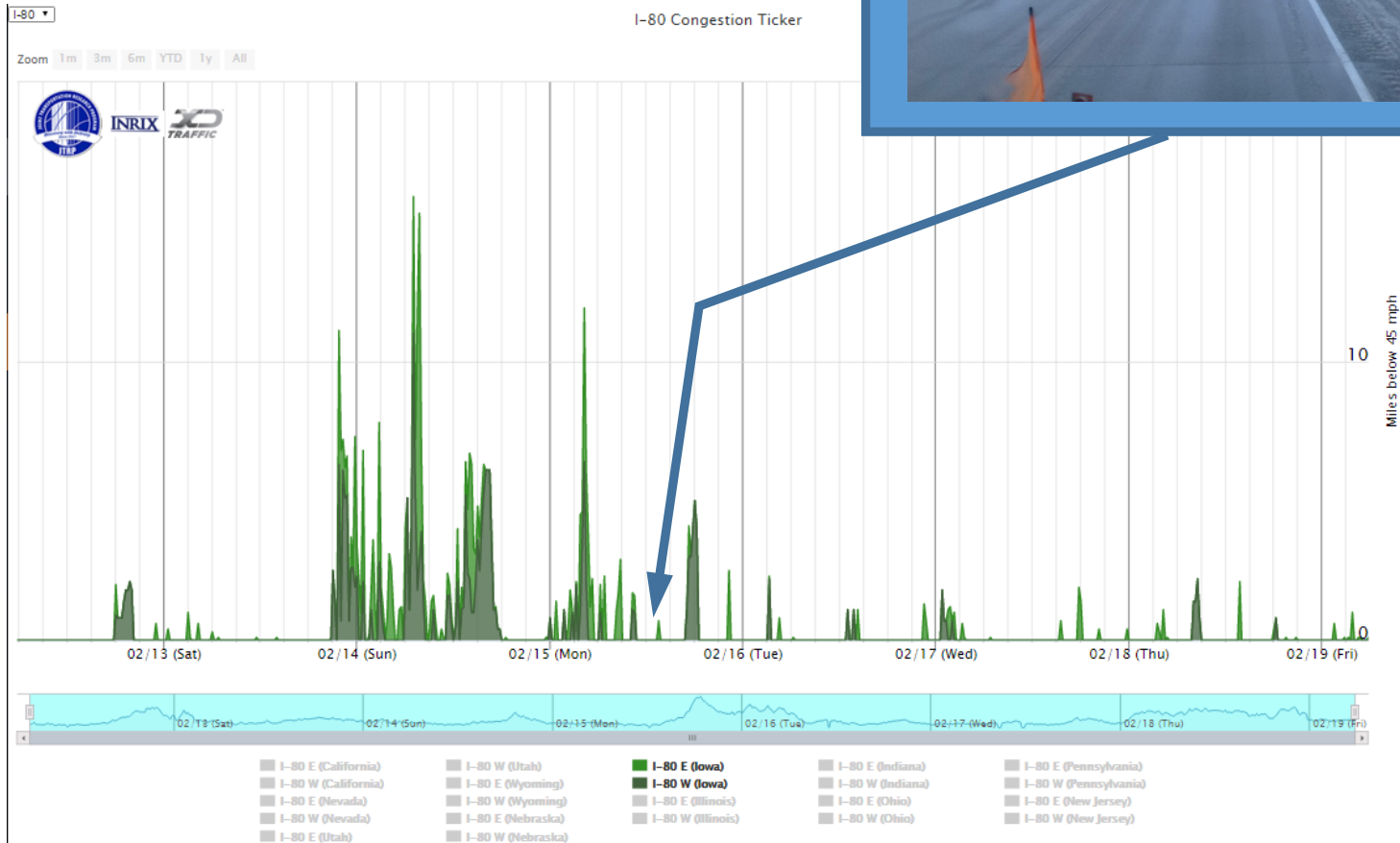
I-80: Sunday January 24, 2016



What an opportunity in Iowa for Integrating Iowa Plow cameras with Purdue Traffic Ticker



I-80: Concept



Indiana Freeway Dashboards aka “Traffic Ticker”



PURDUE
UNIVERSITY

15-Minute Summary:

2015-12-12 23:45 EST
2015-12-13 04:45 UTC

Congested Speed

Speed limit for congestion:
> 45 mph

Date Range

2015-12-08 to 2015-12-12

Display

- ☒ Miles
- ☐ Percentage

Axis Maximum

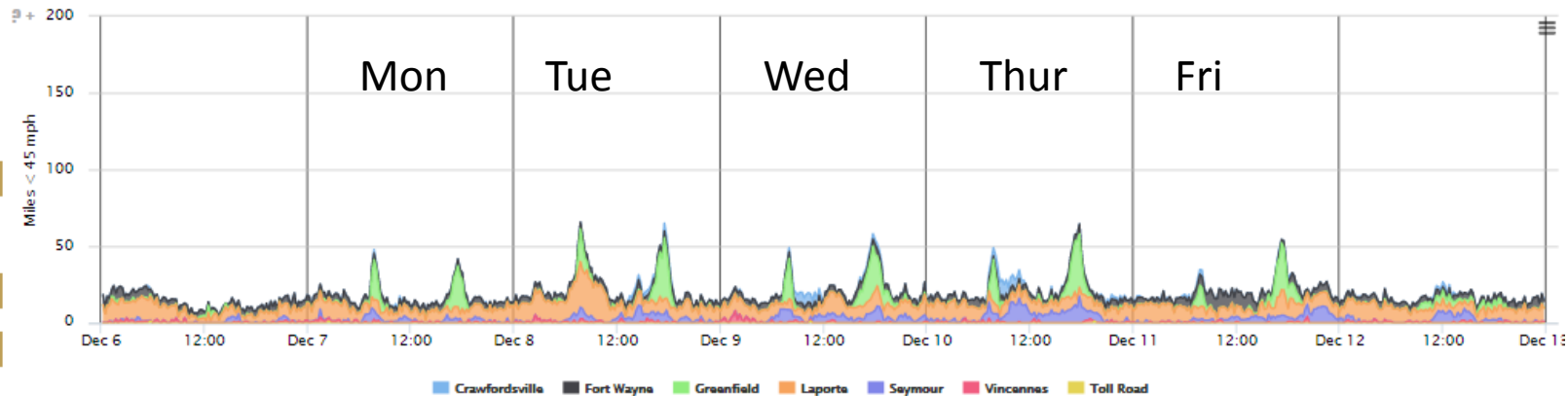
☒ Set y-axis maximum 200

Routes

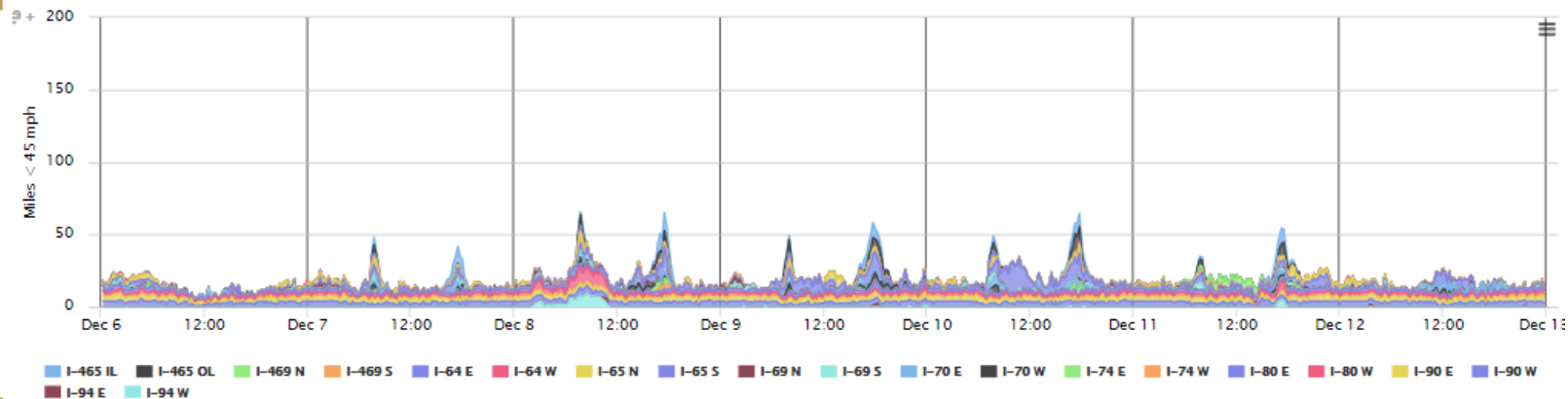


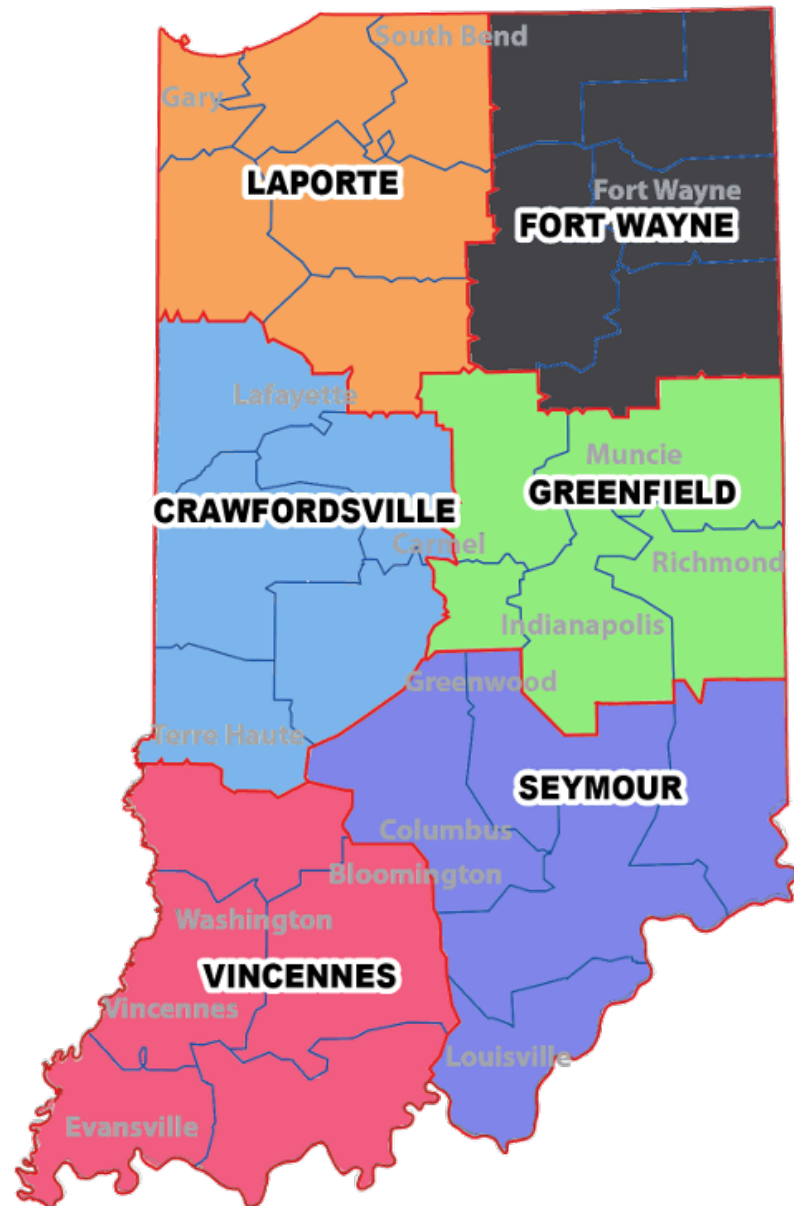
District

INDOT Interstate System Dashboard



Dashboards Filtered by Route and District





Pre-Thanksgiving Winter Weather



PURDUE
UNIVERSITY

15-Minute Summary:

2015-11-23 11:15 EST
2015-11-23 16:15 UTC

Congested Speed

Speed limit for congestion:

> 45 mph

Date Range

2015-11-16 to 2015-11-23

Display

☒ Miles

☐ Percentage

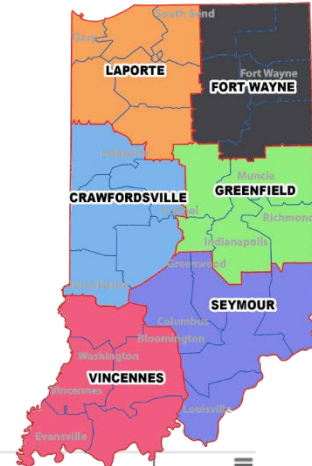
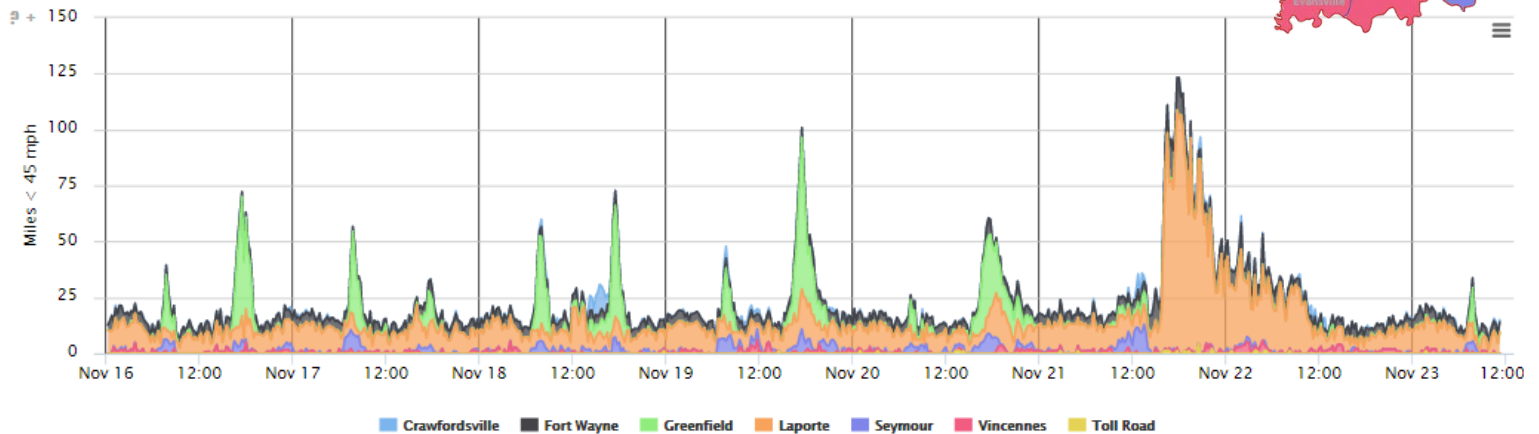
Axis Maximum

☐ Set y-axis maximum 50

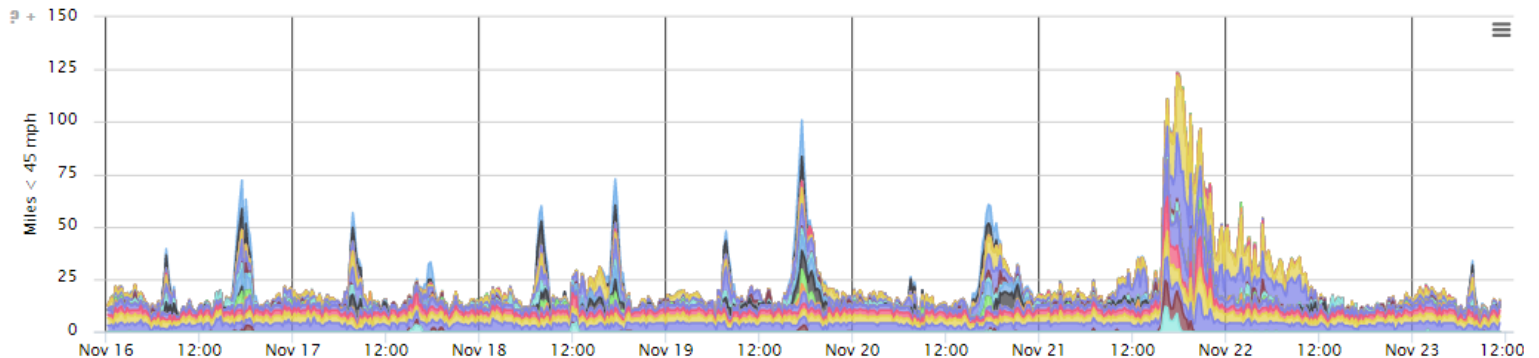
Routes



INDOT Interstate System Dashboard

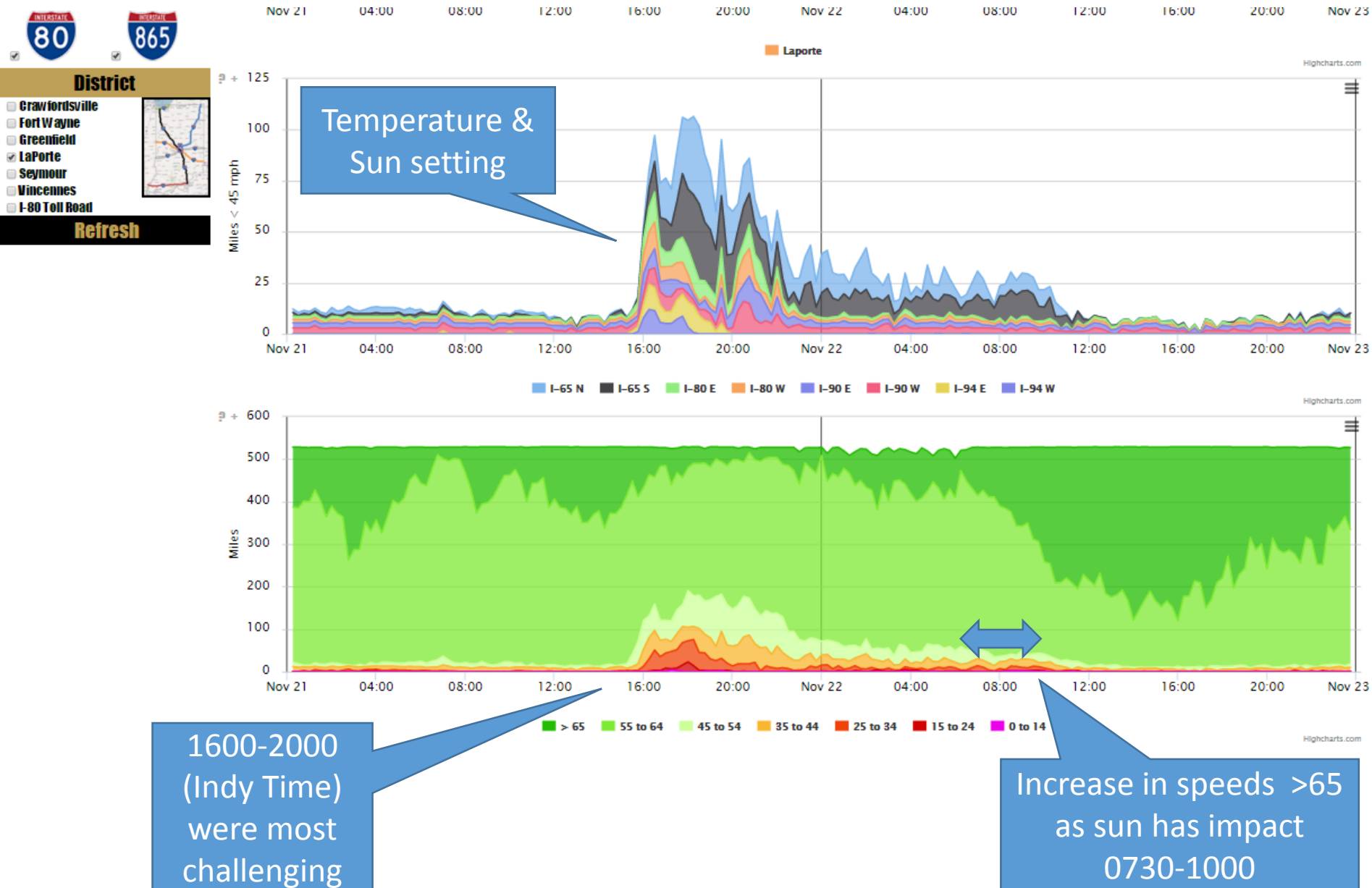


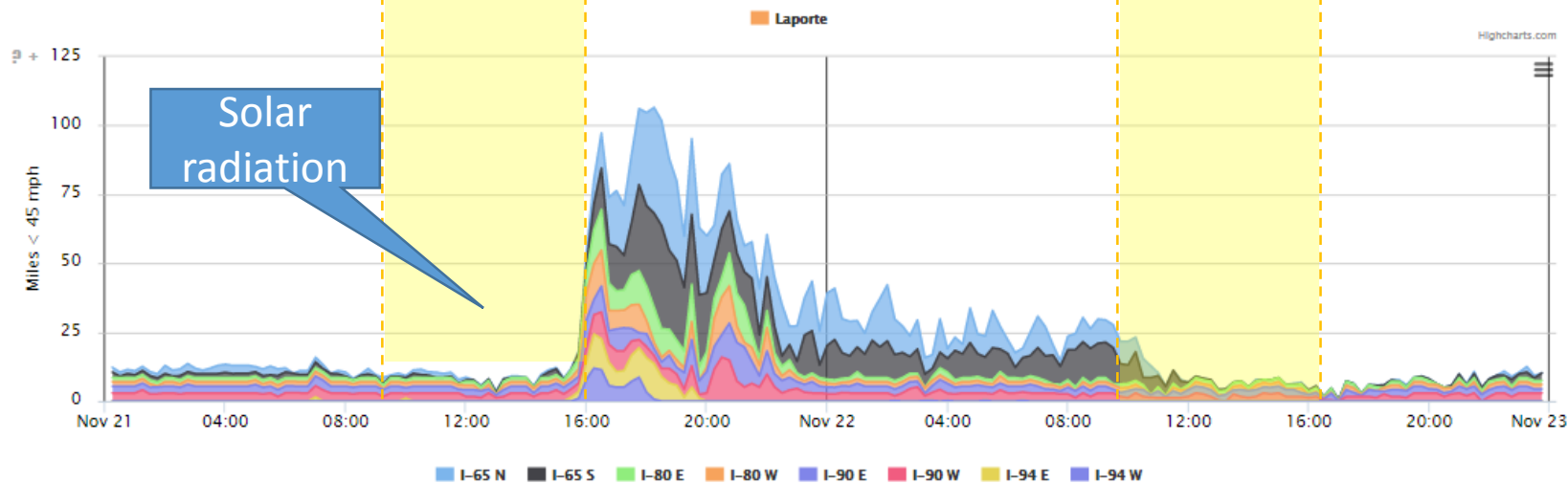
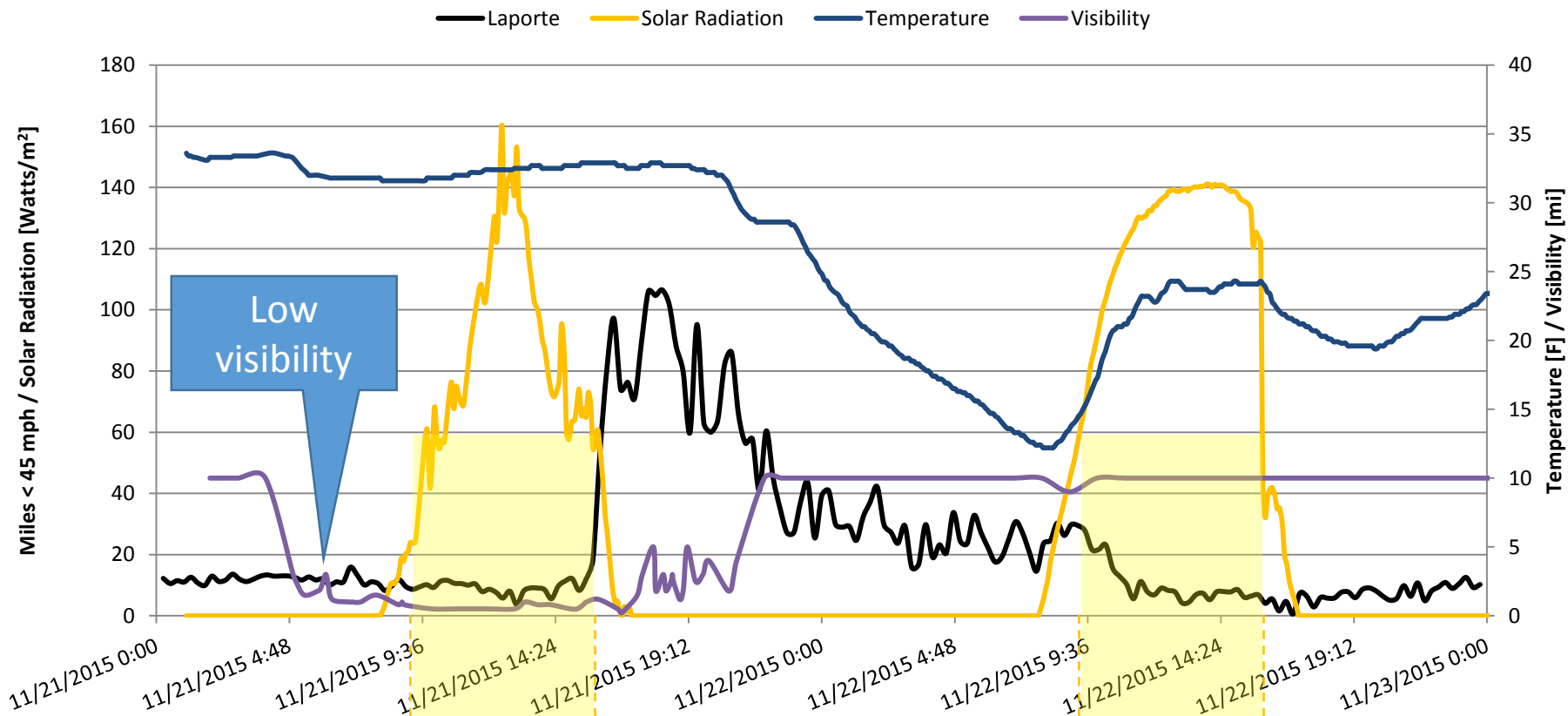
Dashboards Filtered by Route and District



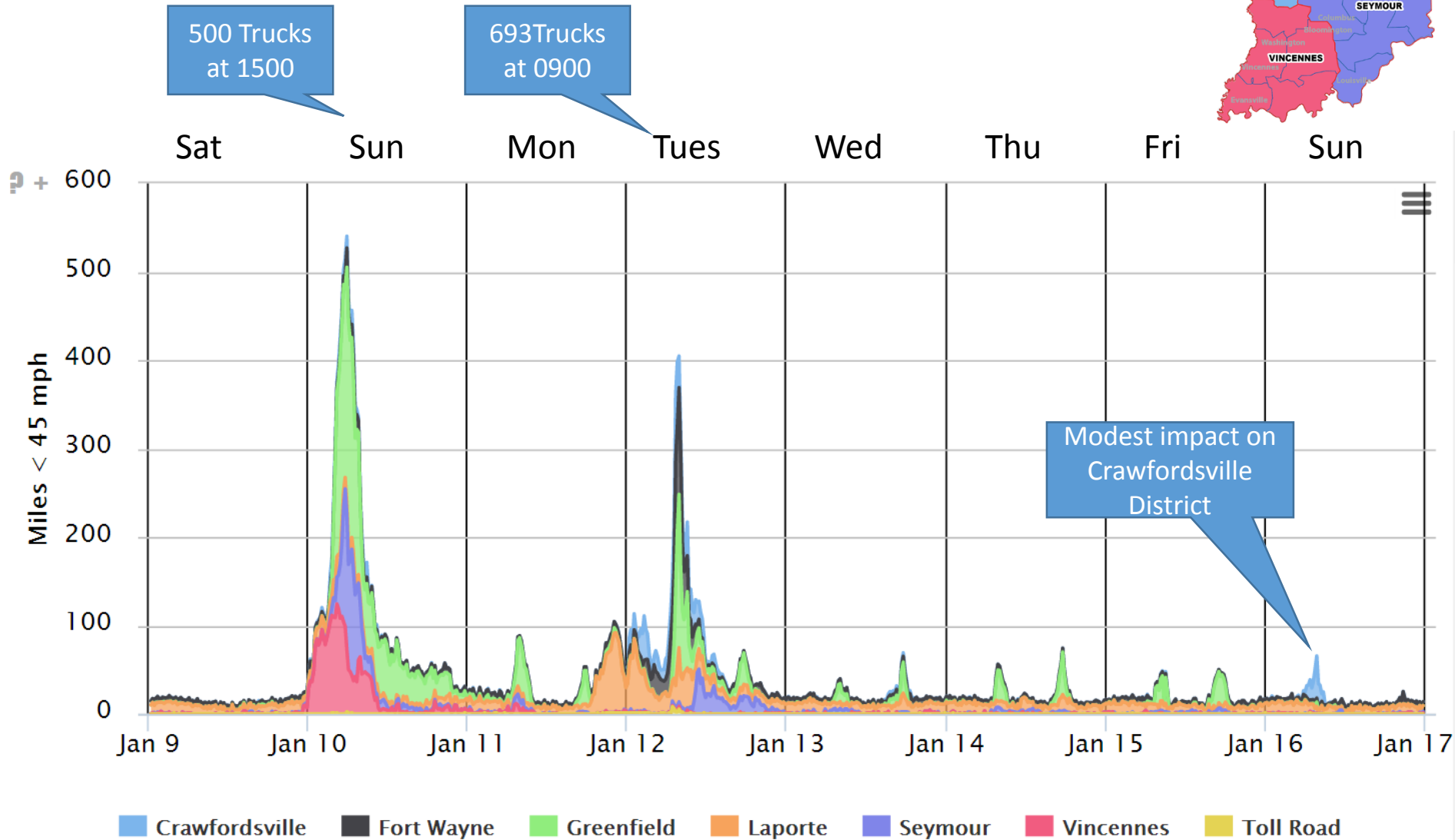
Winter Weather and Traffic Ticker (LaPorte)

Thanksgiving Week Snowstorm



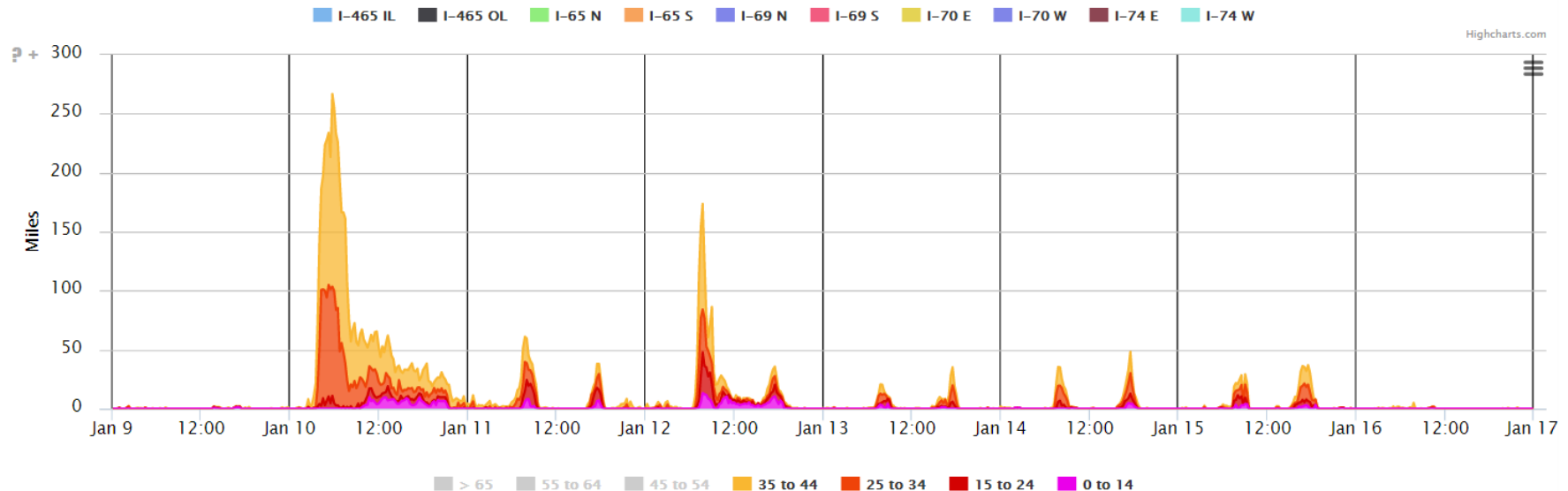
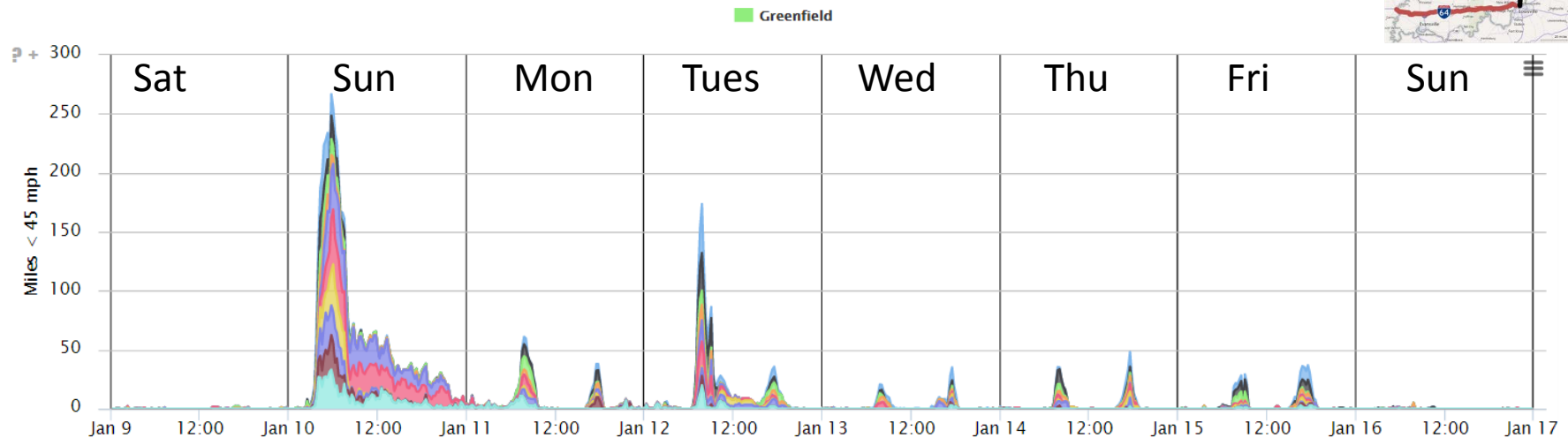


Bigger Storms in January



Greenfield

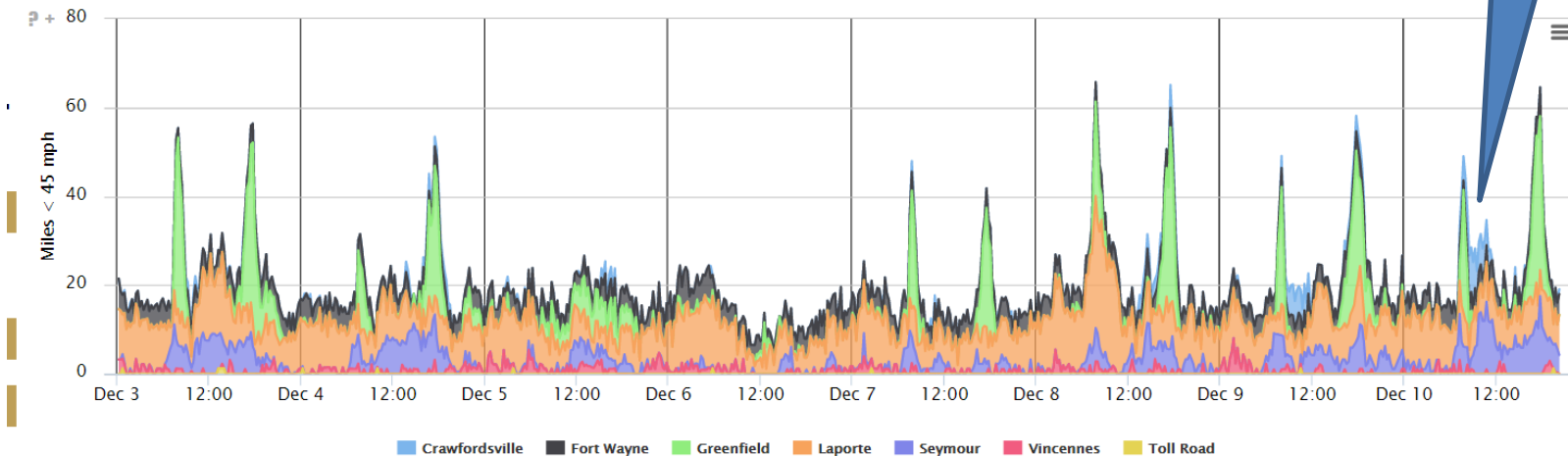
Sun (260mi), Tues(160mi)



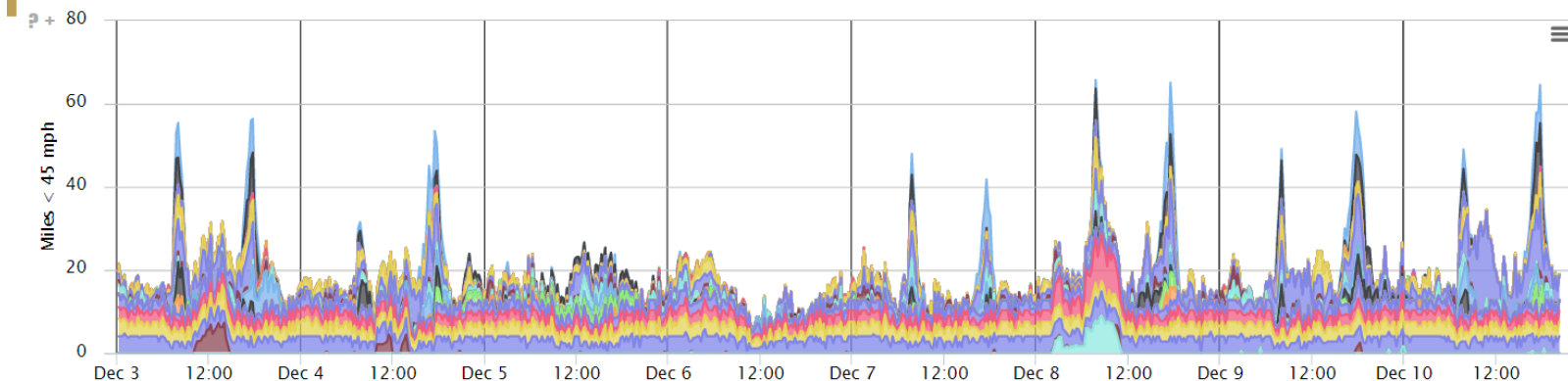
Example Small Event Emergency Patching Operation

Crawfordsville
I-65

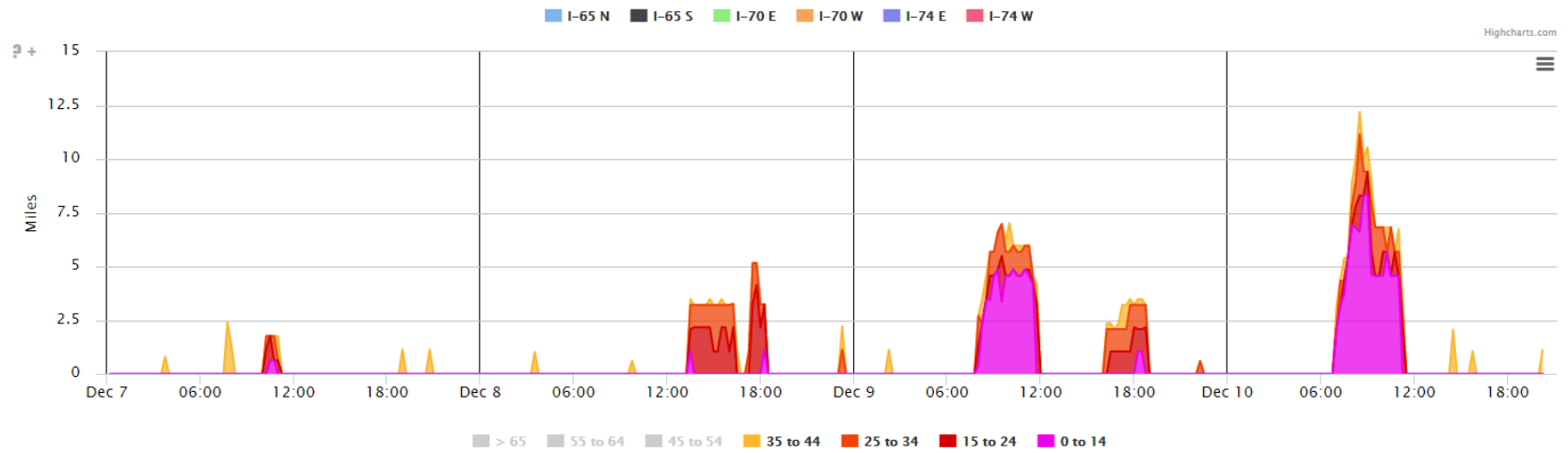
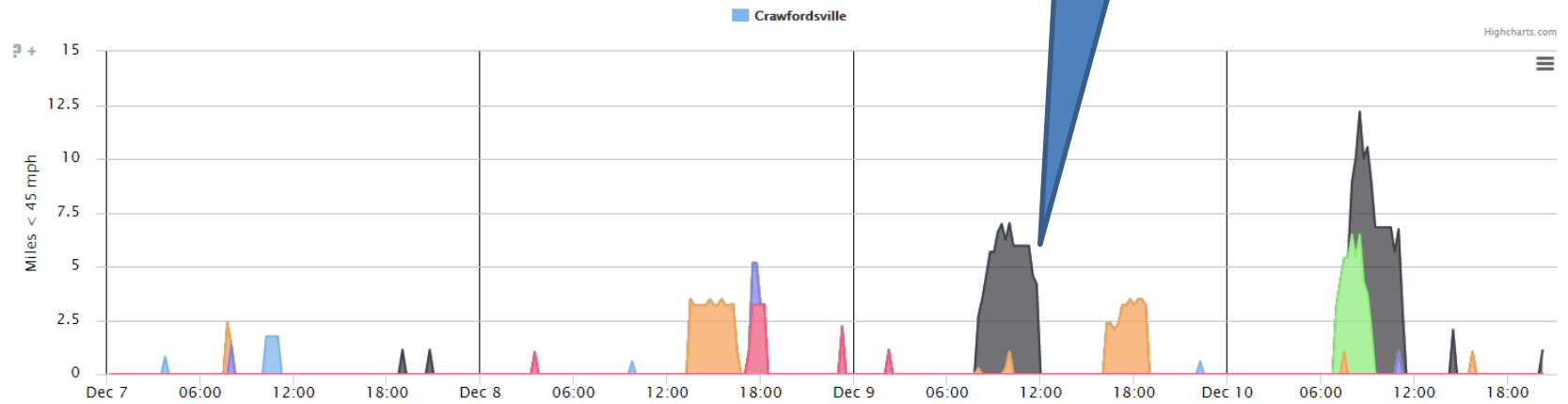
INDOT Interstate System Dashboard



Dashboards Filtered by Route and District

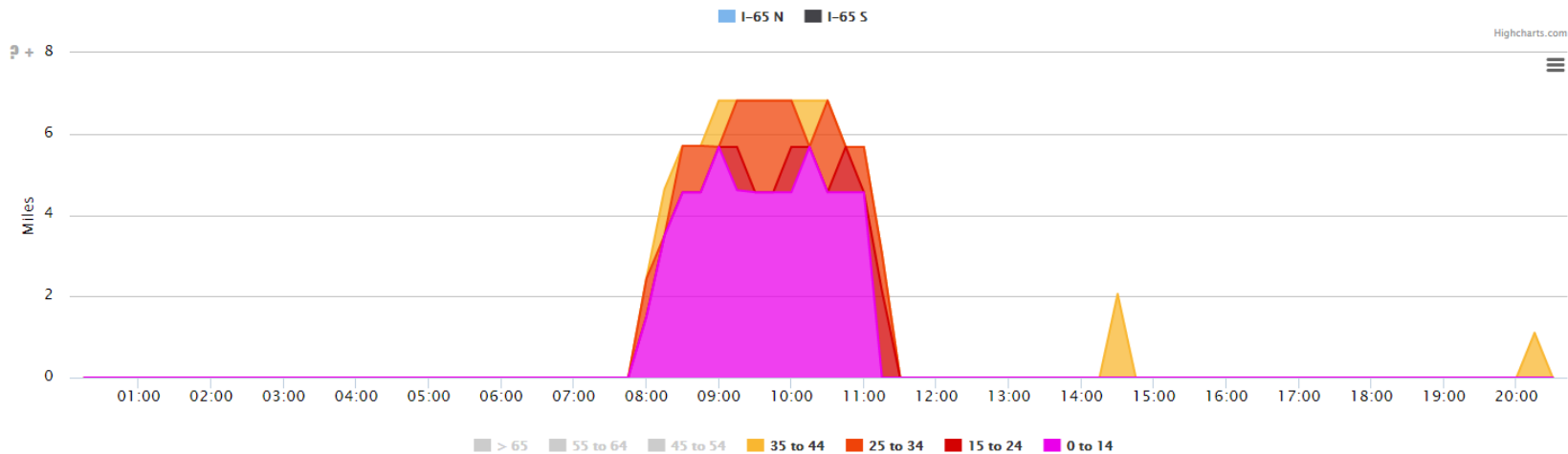
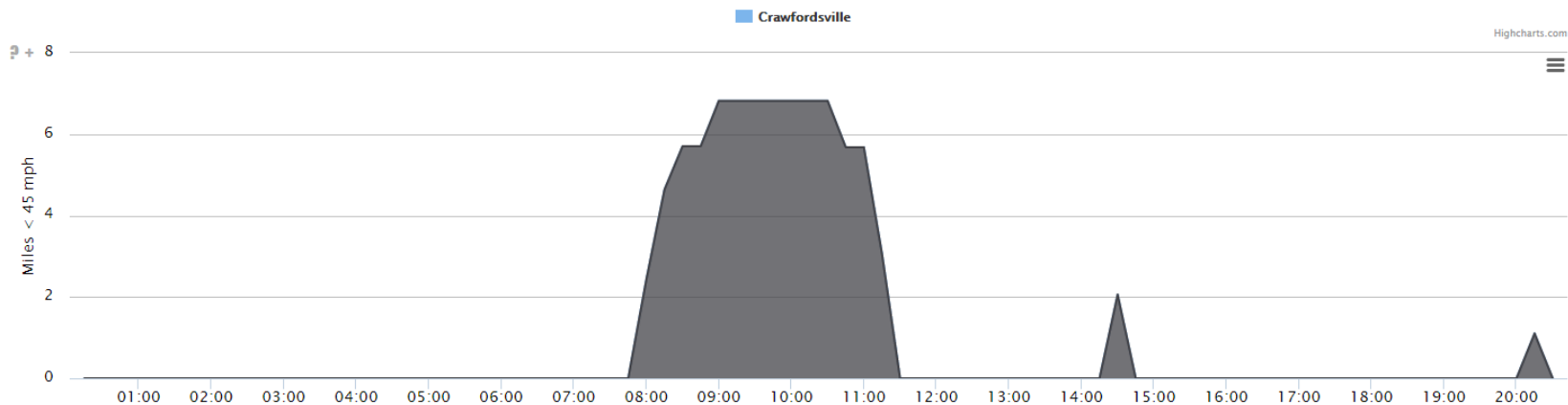


About 6 miles
~0745-1130



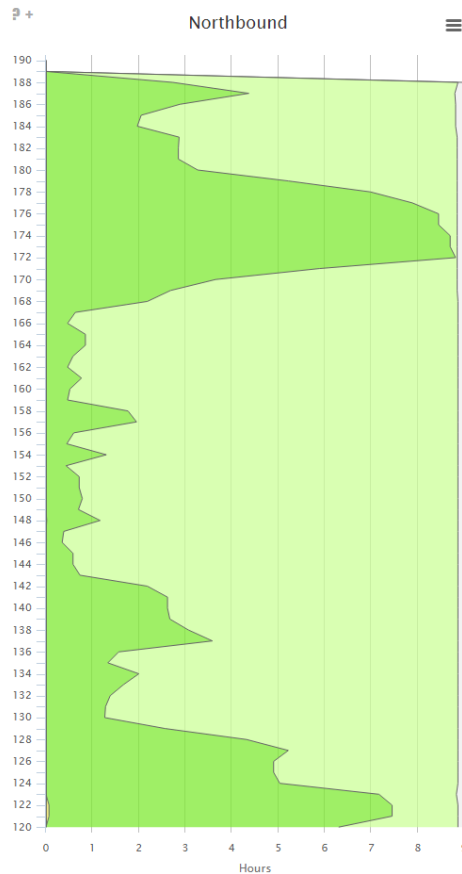
I-65 Speed Profile Times

Dec 10, 2015



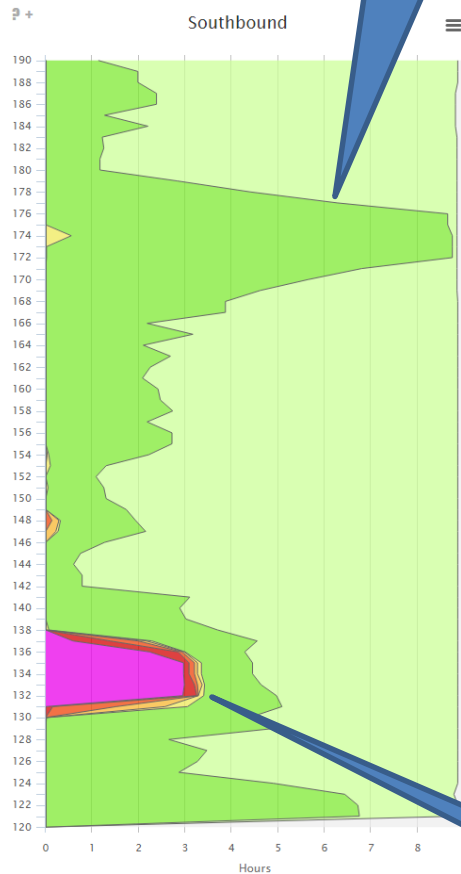
Speed Profile

Dec 10, 2015



No data > 65 55 to 64 45 to 54 35 to 44 25 to 34 15 to 24 0 to 14

Highcharts.com



No data > 65 55 to 64 45 to 54 35 to 44 25 to 34 15 to 24 0 to 14

Lafayette
(55-64)

Route



Mile Marker

120 to 190

Date Range

2015-12-10 to 2015-12-10

Day of Week

- ☒ Monday
- ☒ Tuesday
- ☒ Wednesday
- ☒ Thursday
- ☒ Friday
- ☒ All Weekdays
- ☐ Saturday
- ☐ Sunday
- ☐ All Weekend Days

Time of Day

12AM 6AM 9AM 3PM 6PM

06:00 to 15:00

☐ Exclude selected time period (for overnight analysis)

Maximum Hours Axis Value

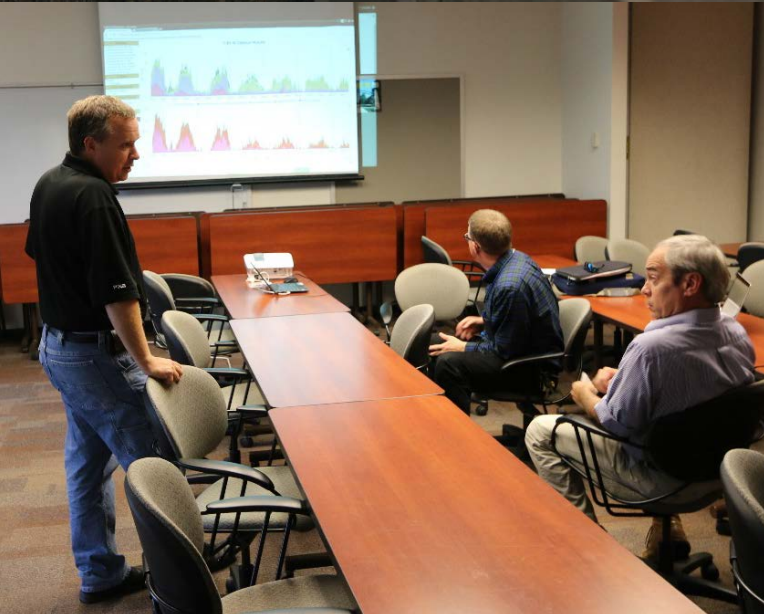
☐ Set y-axis values to

Generate Graph

Lebanon
(0-14mph)

Topics

1. Probe Data
2. Evolving Perspective on
 - Probe Data Dashboards (spatial) and
 - Purdue Traffic ticker (temporal)
 - with some Iowa Examples
- 3. Traffic Ticker Applied to I-65 Detour**



Using Real-Time Probe Vehicle Data to Manage Unplanned Detour Routes

By MARGARET McNAMARA, HOWELL LI, STEPHEN REMIAS, LUCY RICHARDSON, EDWARD COX, DEBORAH HORTON, AND DARCY M. BULLOCK



The unexpected closure of an interstate is a massive undertaking involving a variety of stakeholders. Such was the case in August 2015, when pier settlement of the Wildcat Creek Bridge on I-65 N in Indiana, USA required an unplanned closure of a 37-mile stretch of the interstate for approximately 31 days. The detour route had little existing intelligent transportation systems (ITS) infrastructure to assist engineers with managing operations. To fill this information need, real-time crowdsourced probe vehicle data were used to create real-time dashboards hosted on a website for use by Indiana Department of Transportation (INDOT) engineers and public safety officials to monitor mobility and queueing on the 62-mile detour route. This paper describes how the real-time dashboards were used to proactively identify congestion problems, as well as measure the impact of mitigation measures.

Route Diversion

The southbound bridge was too narrow to support bidirectional traffic, so the northbound traffic was diverted onto US-52 at mile marker 141 (Lebanon, IN) and returned to I-65 just north of Lafayette at Exit 193 (Figure 1a). This stretch of interstate usually carries an average annual daily traffic of 24,000 vehicles, including about 9,500 trucks, and it is an important connector between Indianapolis, IN and Chicago, IL, USA.

Figure 1 shows the area of the closure and detour, with callout 1 of Figure 1b marking the location of the closed bridge. The detour consisted of US-52, SR-28, and US-231, shown in Figure 1a. INDOT deployed fifteen dynamic message signs (DMS) that were used to direct drivers, advising them of turns and potential queues. Additionally, there were 40 trailblazing signs marking the direction of the detour and 19 other signs, including warning signs for traffic lights and work zones. Figure 1b, callouts ii, iii, and iv, mark temporary signals that were installed, and callout v marks a four-way stop that was converted to a two-way stop, which are discussed later in the article.

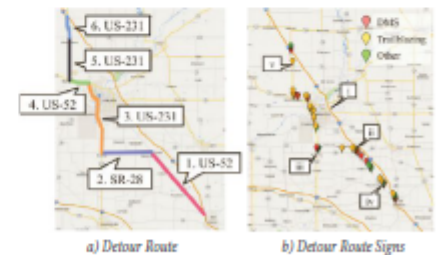
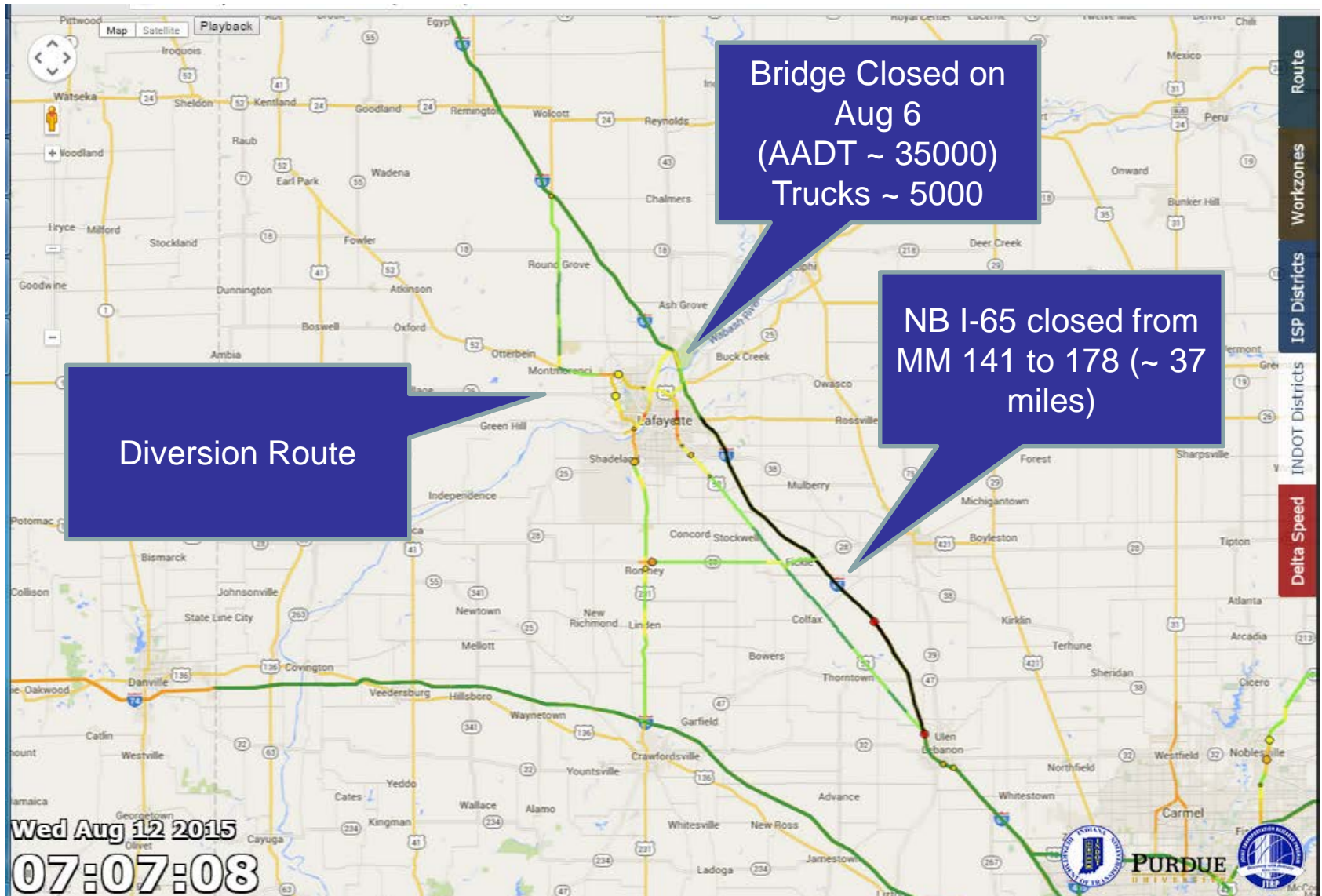


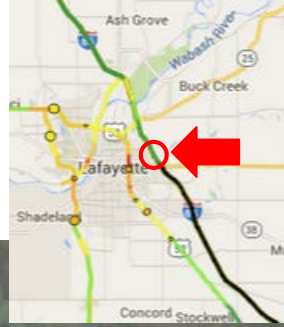
Figure 1. Maps of Detour Route

Immediately after the closure, DMS near Indianapolis (and later in adjacent states) were used to advise drivers of the closure and encourage Chicago-bound traffic to take I-74 to I-57 in Illinois.

Interstate Diversion

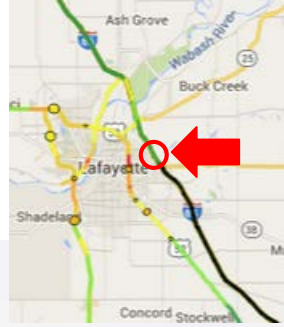


Northbound I-65 Bridge Closure... The Problem



Northbound I-65 Bridge Closure... Repairs In Progress

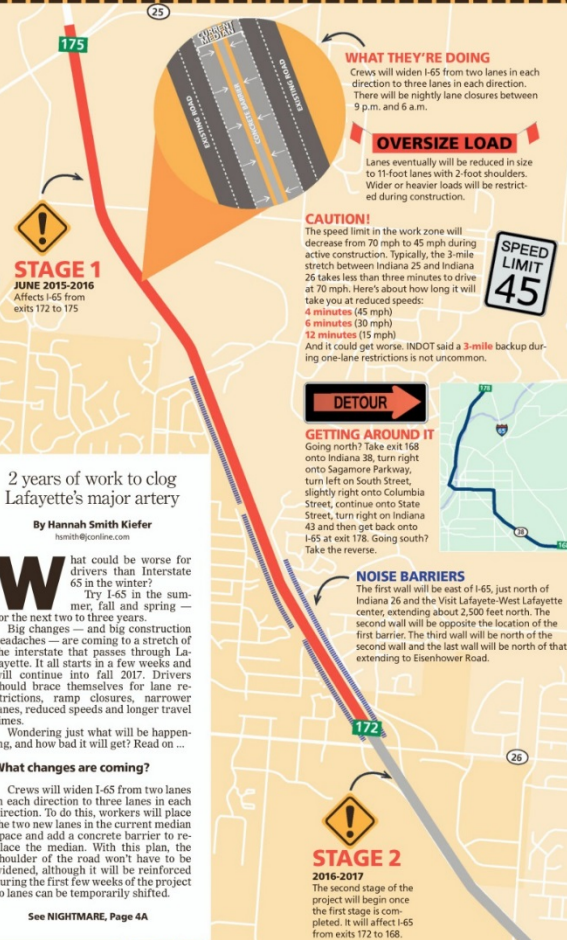
35000
vehicles?



Making Real Time Decisions and Separating Fact from Fiction



NIGHTMARE ON INTERSTATE 65



2 years of work to clog Lafayette's major artery

By Hannah Smith Kiefer
hsmith@online.com

What could be worse for drivers than Interstate 65 in the winter?

Try I-65 in the summer, fall and spring — for the next two to three years.

Big changes — and big construction headaches — are coming to a stretch of the interstate that passes through Lafayette. It all starts in a few weeks and will continue into fall 2017. Drivers should brace themselves for lane restrictions, ramp closures, narrower lanes, reduced speeds and longer travel times.

Wondering just what will be happening, and how bad it will get? Read on ...

What changes are coming?

Crews will widen I-65 from two lanes in each direction to three lanes in each direction. To do this, workers will place the two new lanes in the current median space and add a concrete barrier to replace the median. With this plan, the shoulder of the road won't have to be widened, although it will be reinforced during the first few weeks of the project so lanes can be temporarily shifted.

See NIGHTMARE, Page 4A

MORE THAN
\$240
IN COUPONS
INSIDE TODAY!



PROVIDED BY KYLE MARTIN

Lafayette police and Tippecanoe County Sheriff's deputies staged in the area of a home on South Third Street in Lafayette. Sheriff Barry Richard confirmed that the fugitive jail escapee, Marcus Alan Bramlett, had been holed up inside the house.

Fugitive surrenders

Suspect apprehended without incident after crime spree

By Hannah Smith Kiefer
hsmith@online.com

A dangerous fugitive holed up inside a Lafayette house surrendered to police late Saturday night after a chaotic 24-hour crime spree that started when the suspect overpowered a sheriff's deputy transporting him from the hospital and stole her squad car and rifle.

Shortly after 11 p.m., the suspect, Marcus Alan Bramlett, 25, peacefully exited the back door of a small brown wood-frame house in the 1000 block of South Third Street in Lafayette. Police had been negotiating with him by telephone for hours to persuade him to surrender.

"This concludes a horrible situation," declared Tippecanoe County Sheriff

See FUGITIVE, Page 6A

USA TODAY

ISIL leader killed

U.S. troops carried out a raid inside eastern Syria. USA TODAY, 1B

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WEST LAFAYETTE • Open Daily 8 am - 8 pm
915 Sagamore Pkwy West (Across from WL Police Dept.)

Franciscan EXPRESSCARE
FranciscanExpressCare.org

How Bad? Ineffective, Absurd...

Using Metrics to change the narrative.



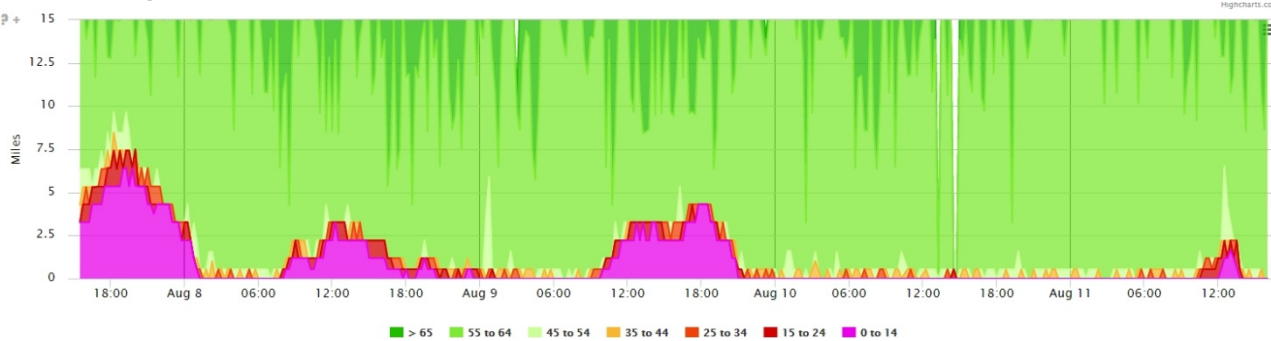
- Reporter drove official detour right after the closure, wrote article for local newspaper
- Took 4 hours to drive ~60 miles
- Said “Moral of the story is that the INDOT detour route is essentially ineffective.”
- “Plan for it to take an absurd amount of time.”



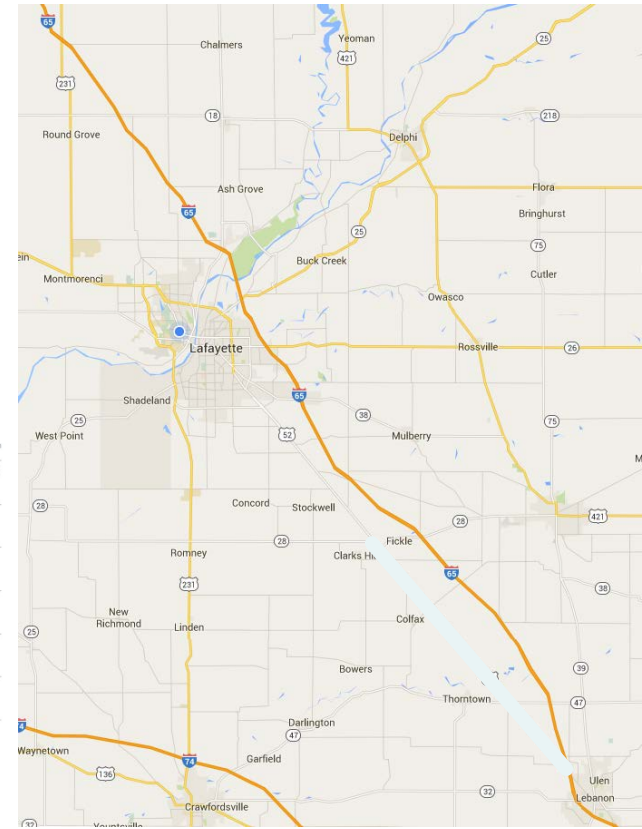
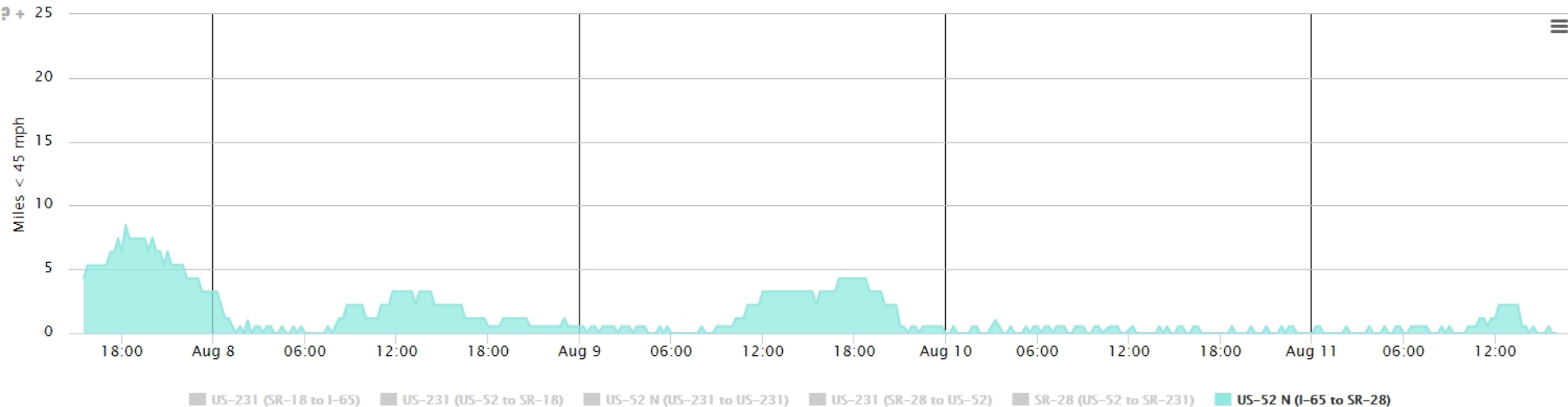
Traffic Summary

US-52 N (I-65 to SR-28)

Segment Speed Profile



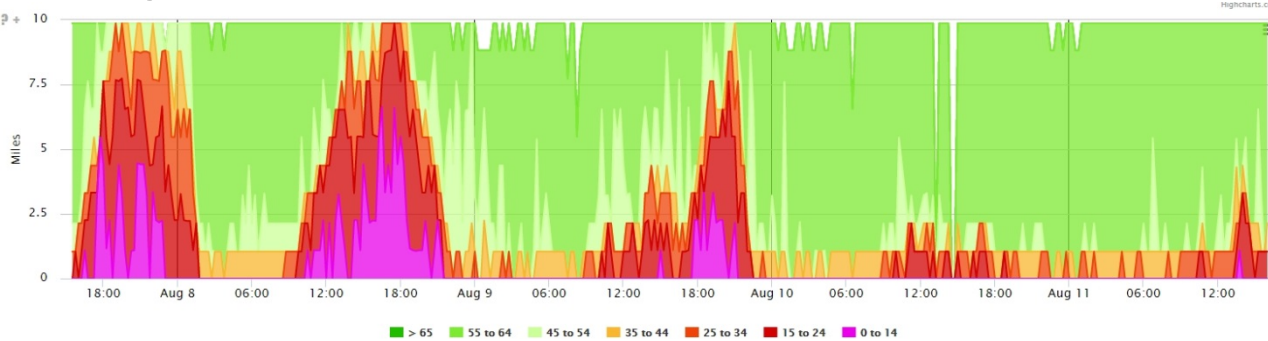
Cumulative Traffic Ticker



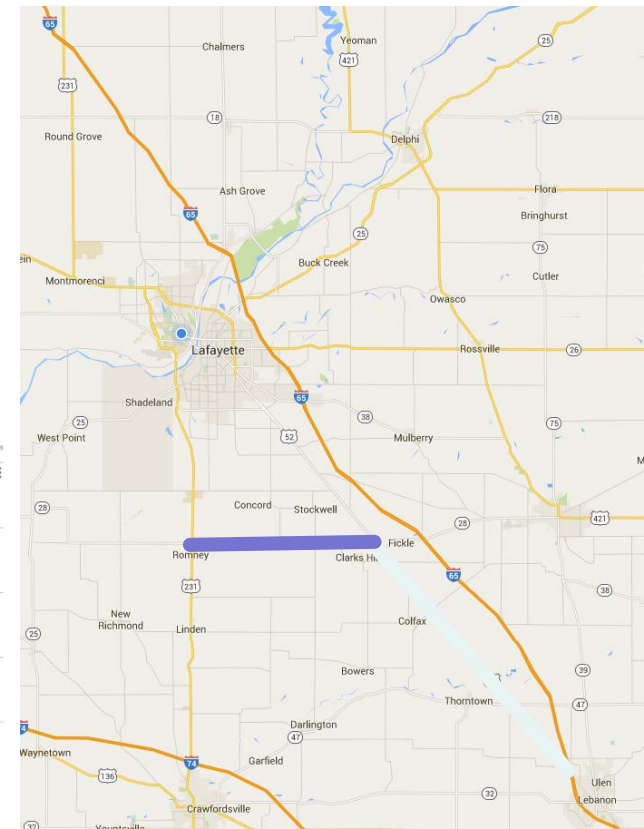
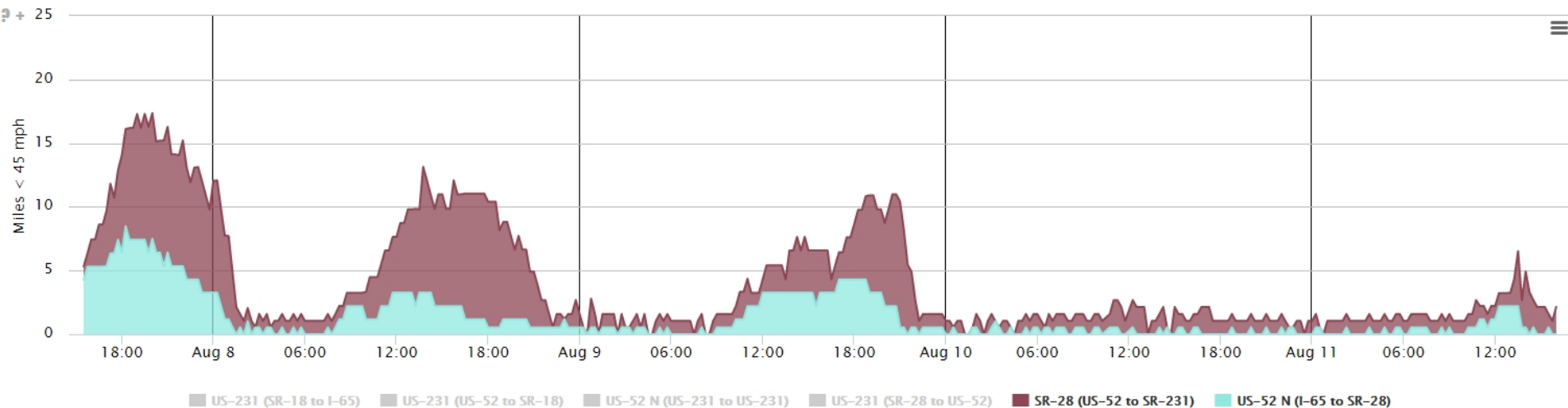
Traffic Summary

SR-28 (US-52 to SR-231)

Segment Speed Profile



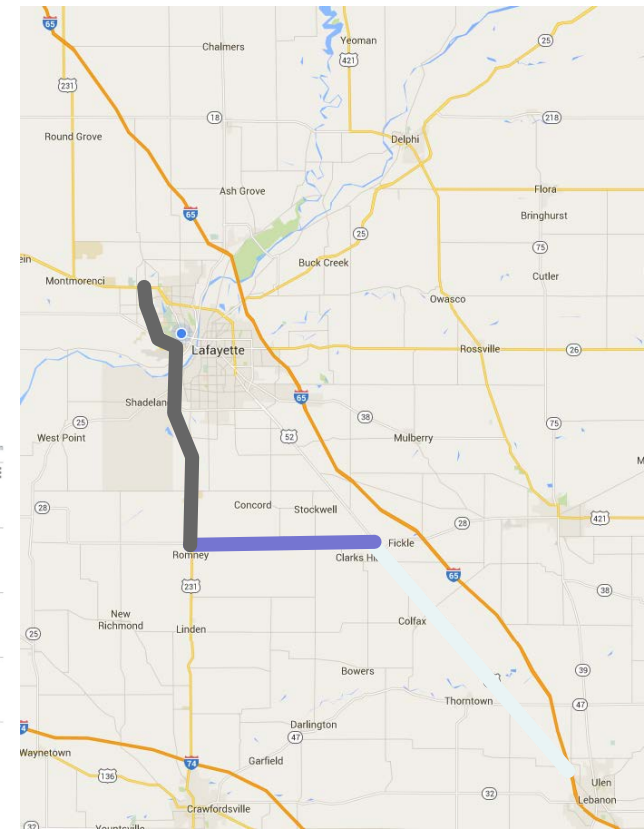
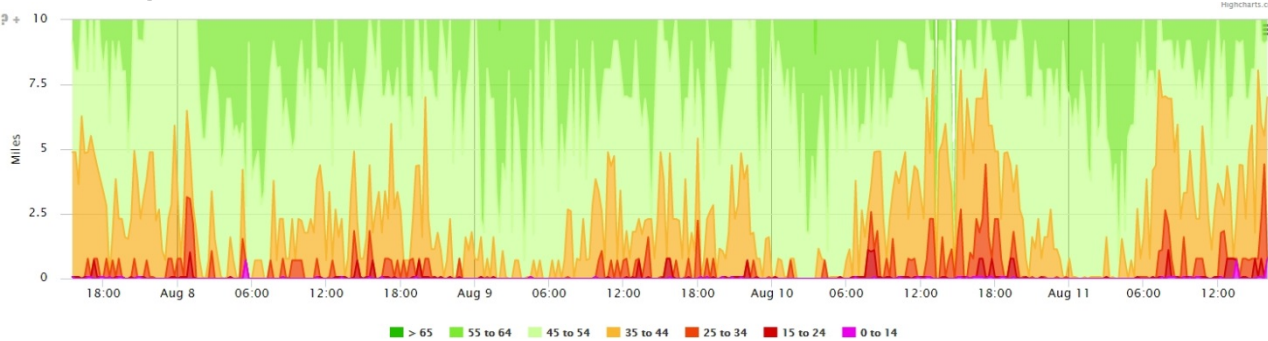
Cumulative Traffic Ticker



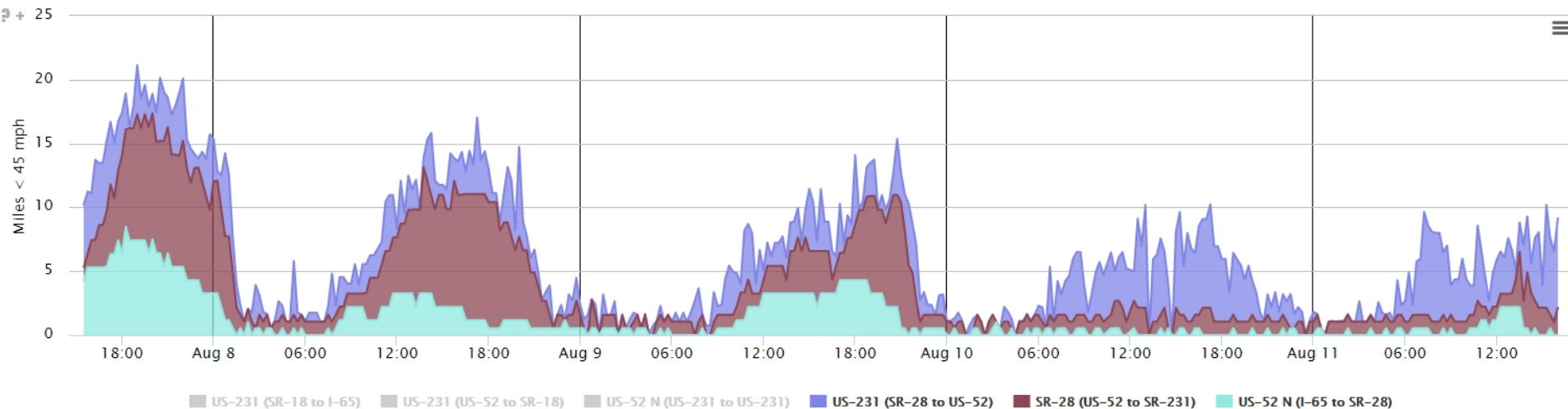
Traffic Summary

US-231 (SR-28 to US-52)

Segment Speed Profile



Cumulative Traffic Ticker



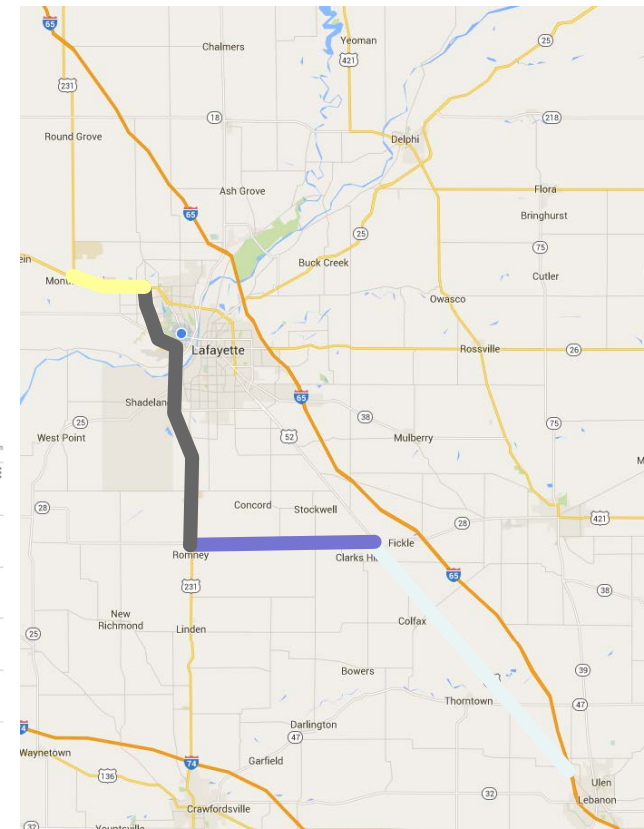
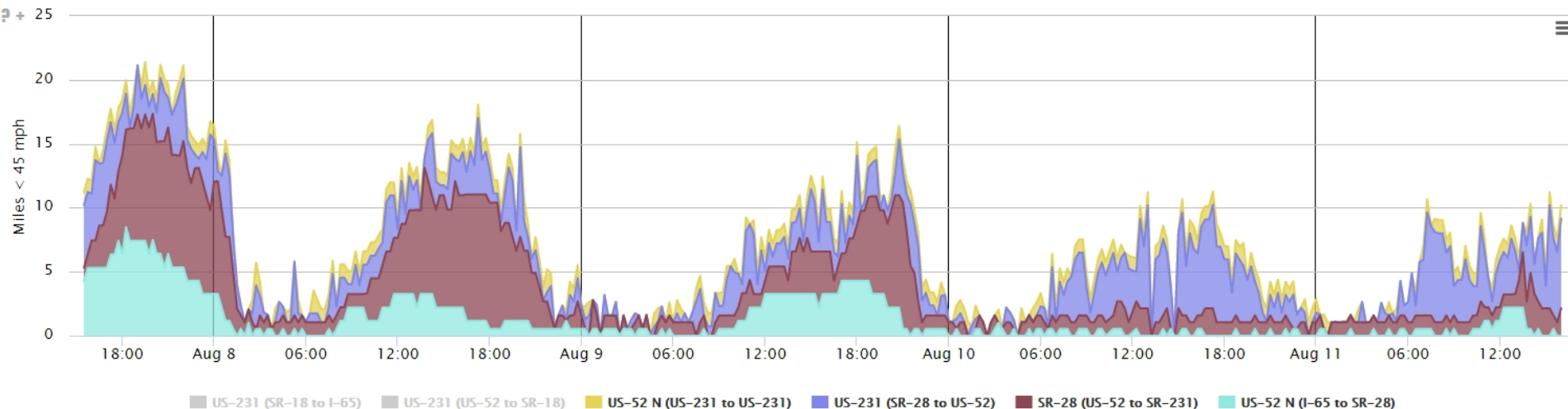
Traffic Summary

US-52 N (US-231 to US-231)

Segment Speed Profile



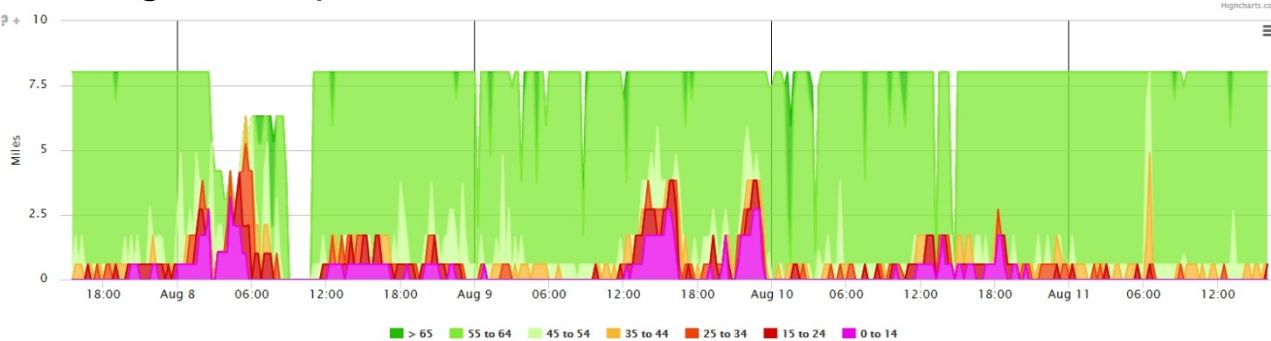
Cumulative Traffic Ticker



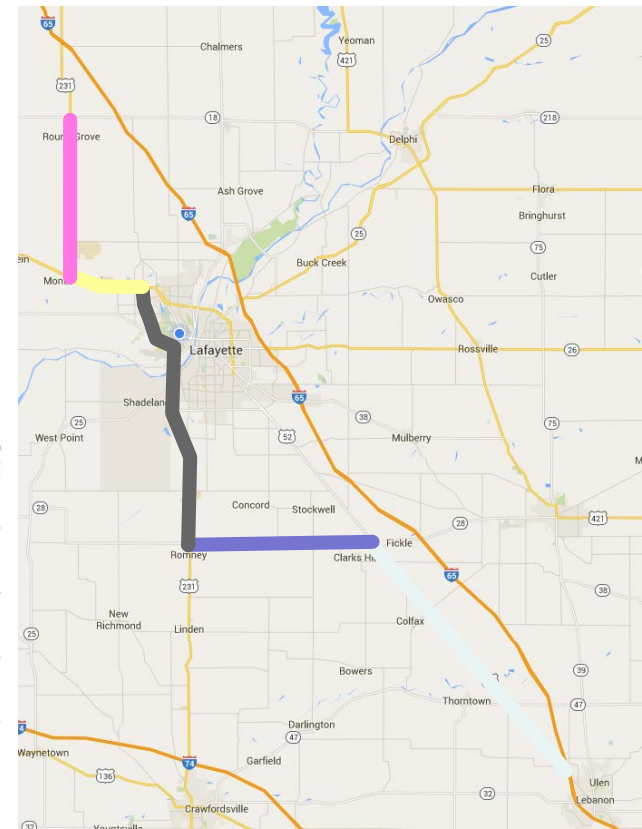
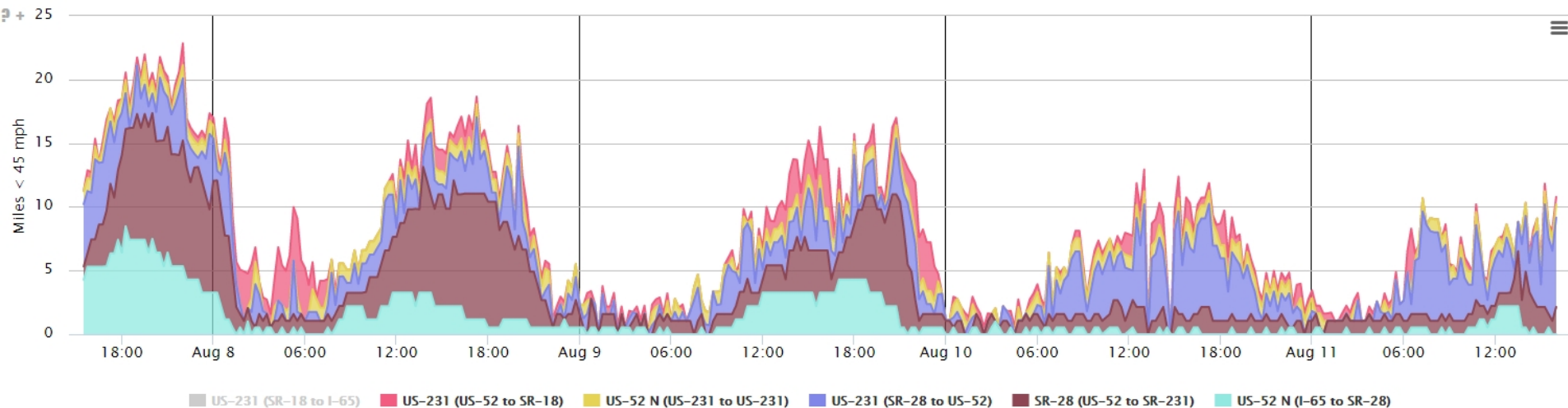
Traffic Summary

US-231 N (US-52 to SR-18)

Segment Speed Profile



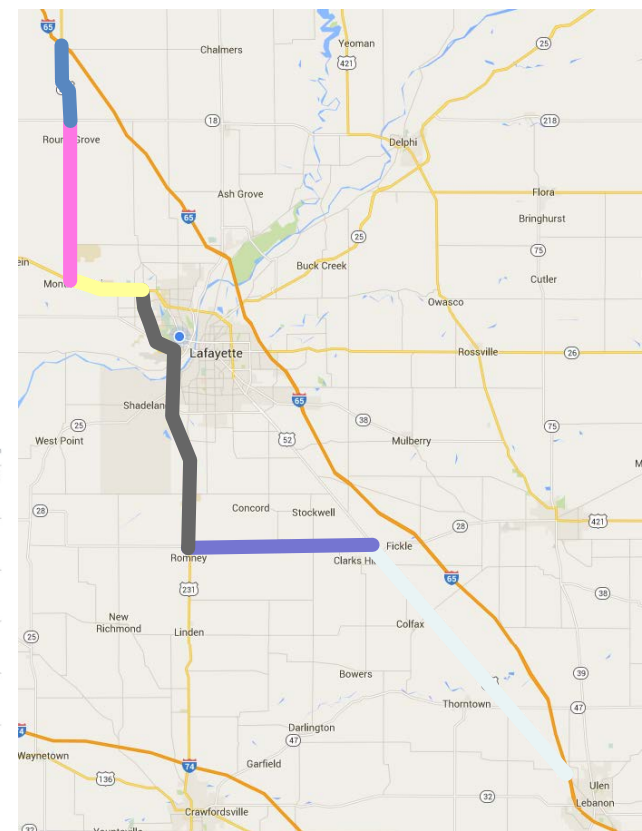
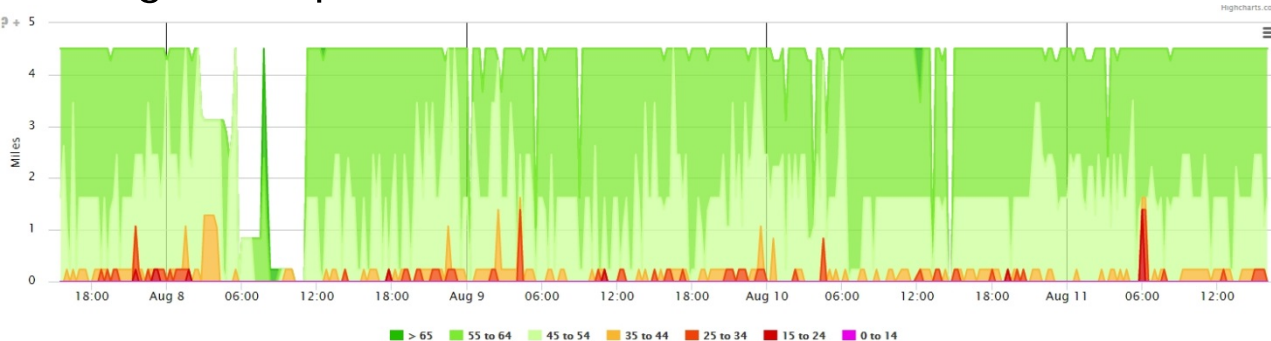
Cumulative Traffic Ticker



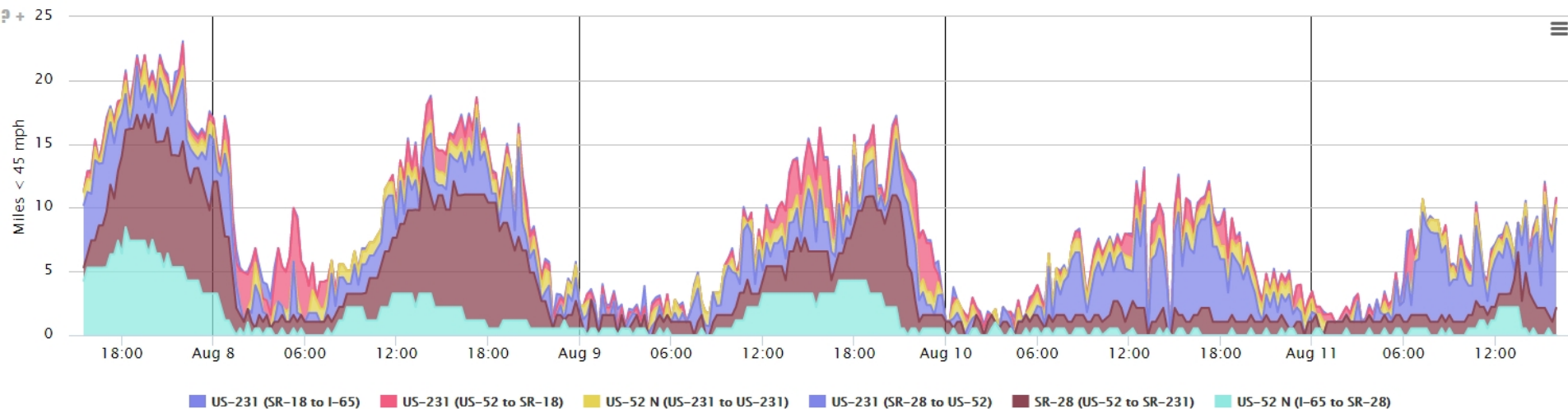
Traffic Summary

US-231 N (SR-18 to I-65)

Segment Speed Profile



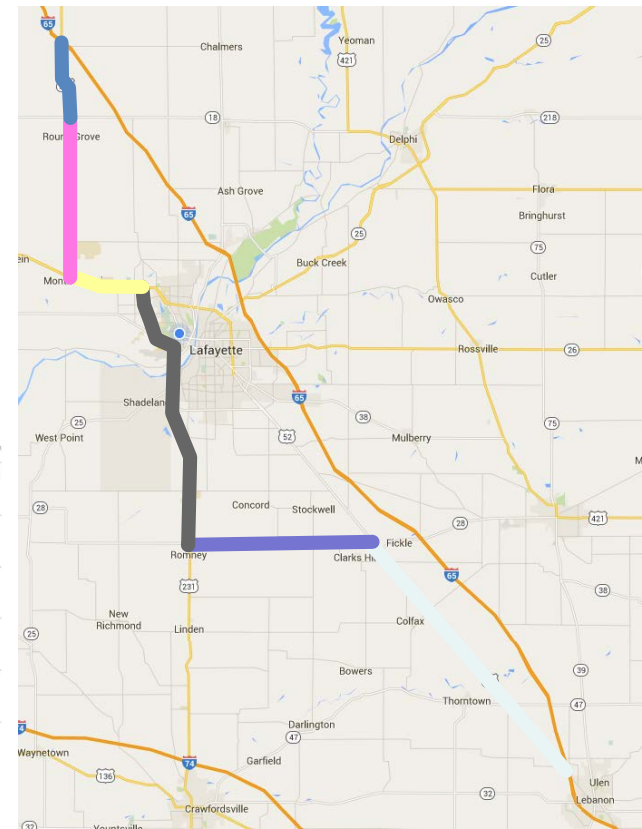
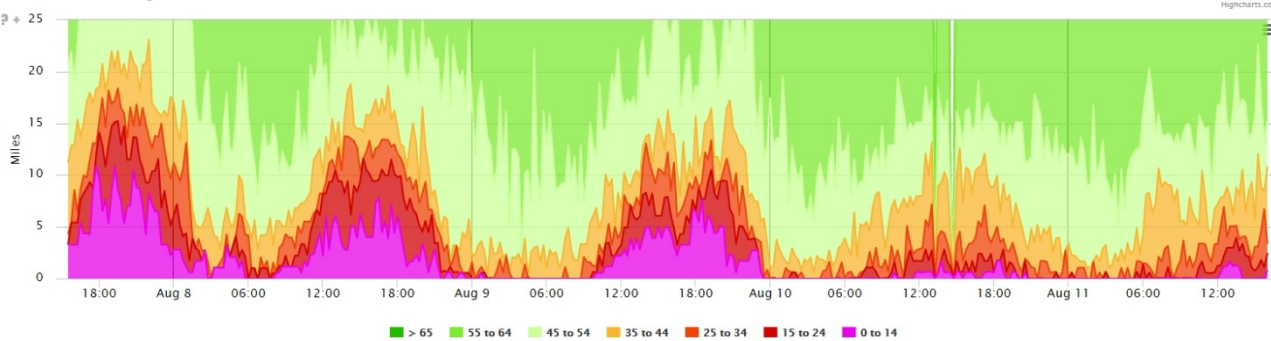
Cumulative Traffic Ticker



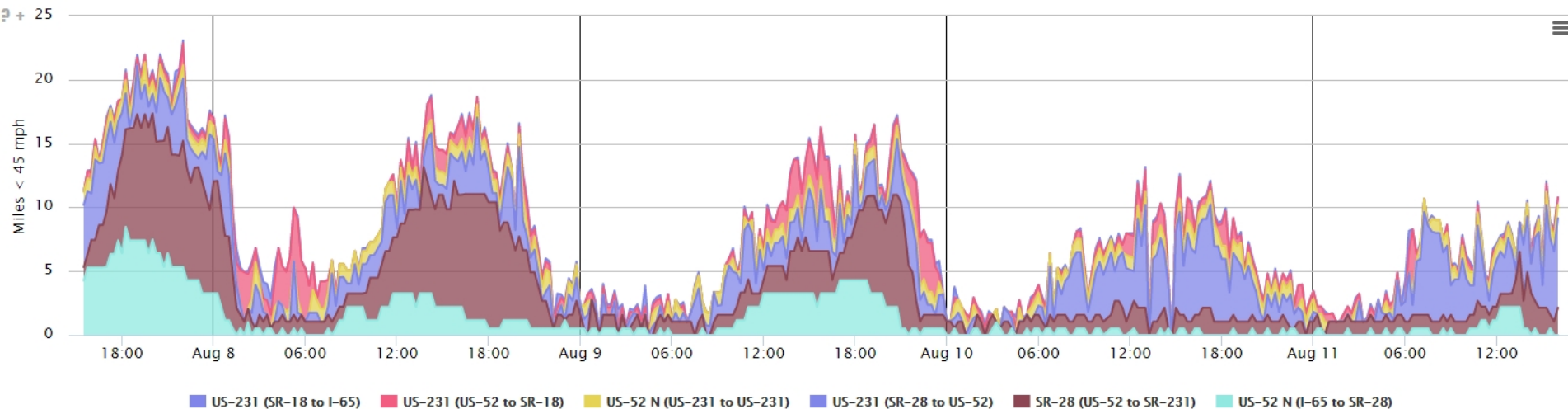
Traffic Summary

Total

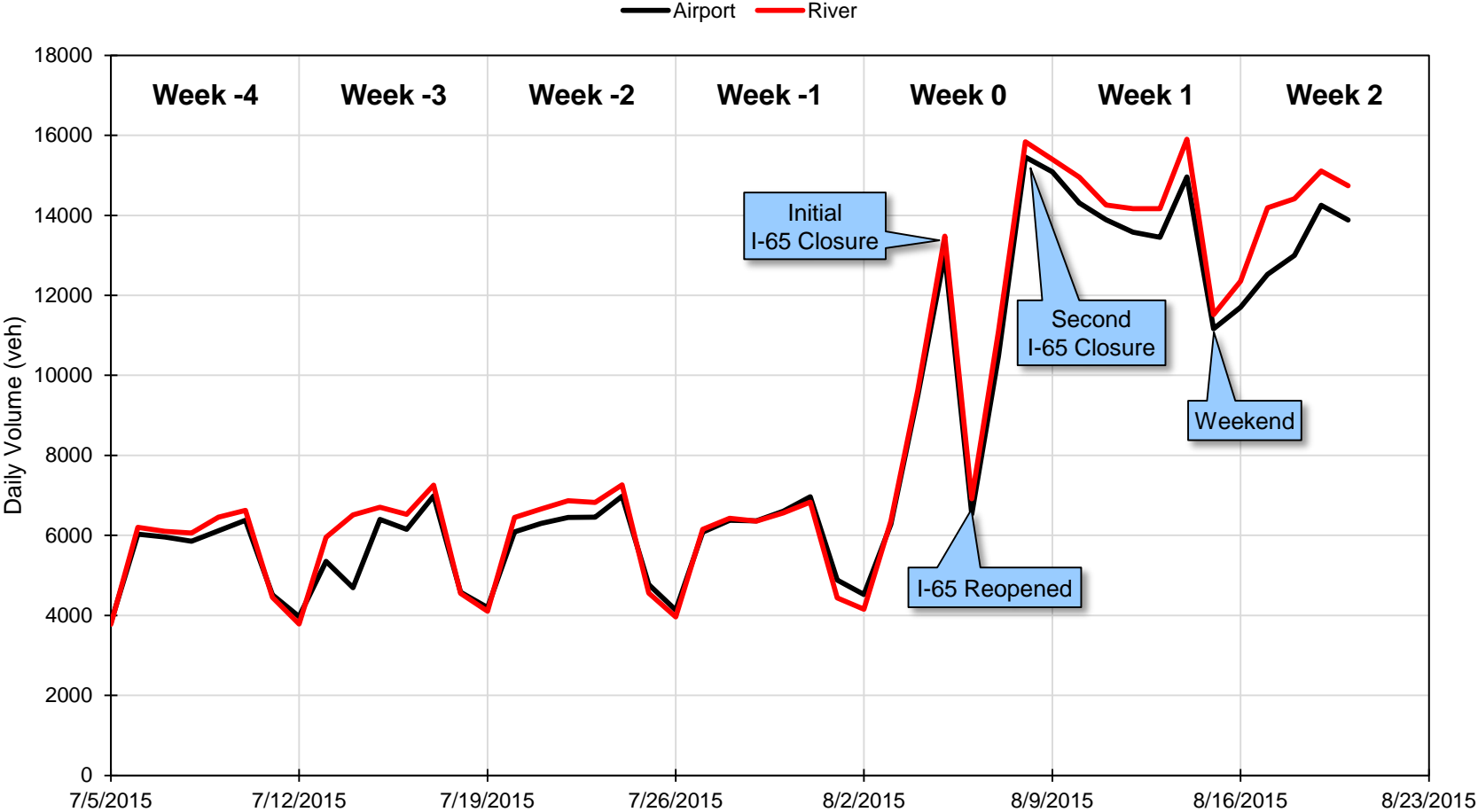
Segment Speed Profile



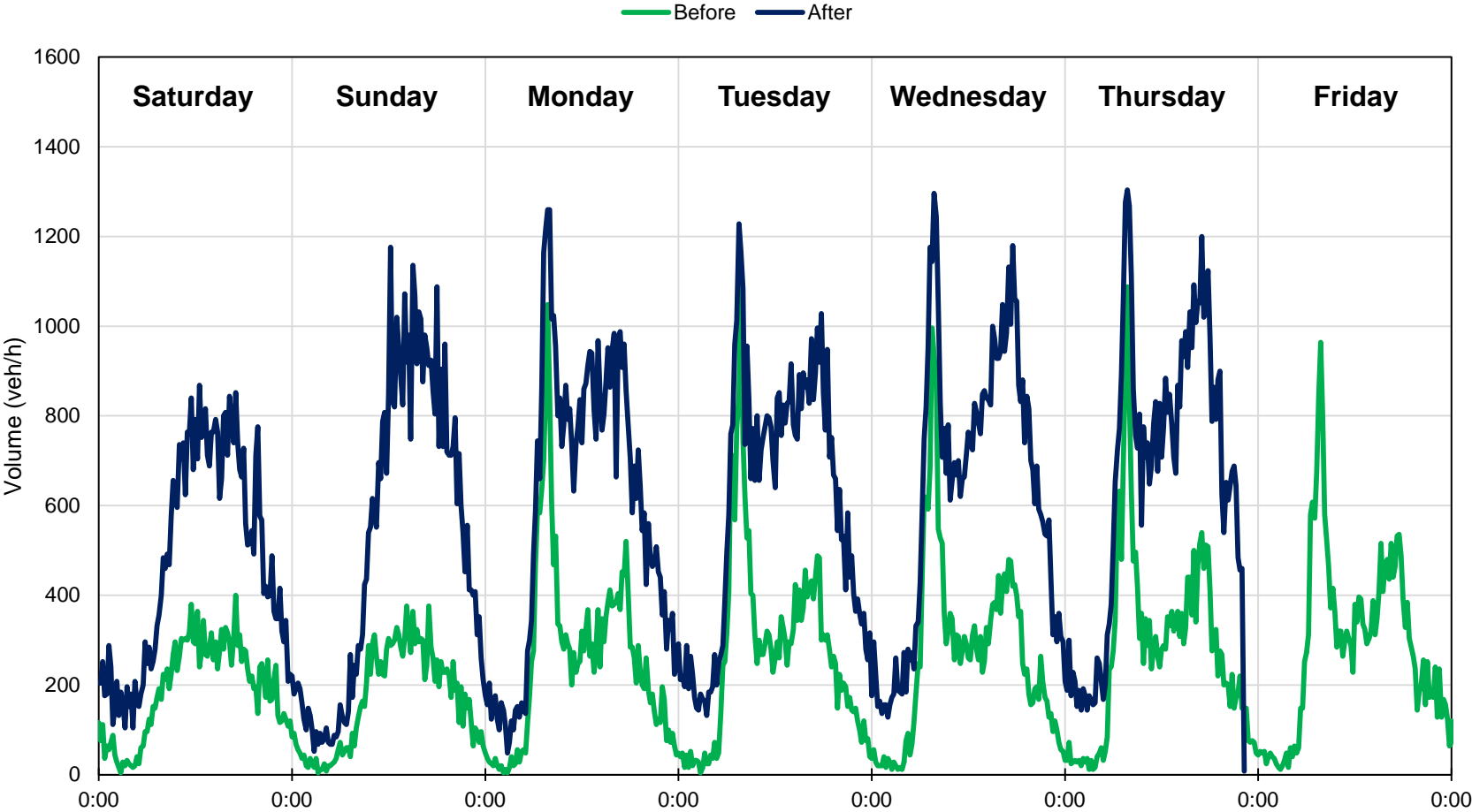
Cumulative Traffic Ticker



Daily Northbound Volumes –US-231 NB approaching Lafayette



US-231 @ River Road – Typical Week Before and After (Week of 7/25 vs. Week of 8/15)



Detour Route Dashboard

Temp
Signals

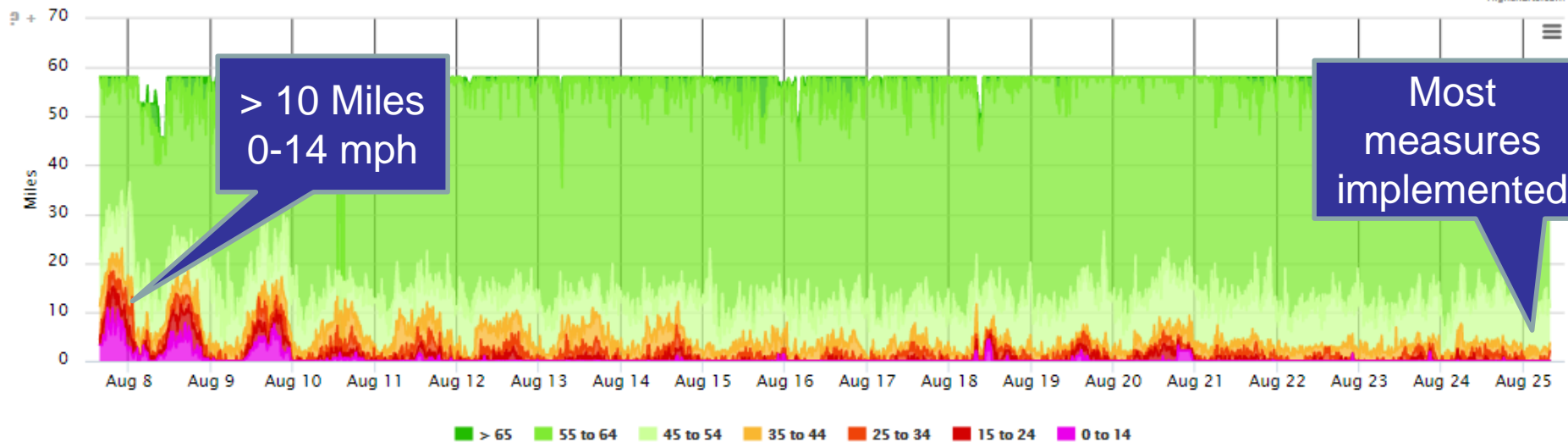
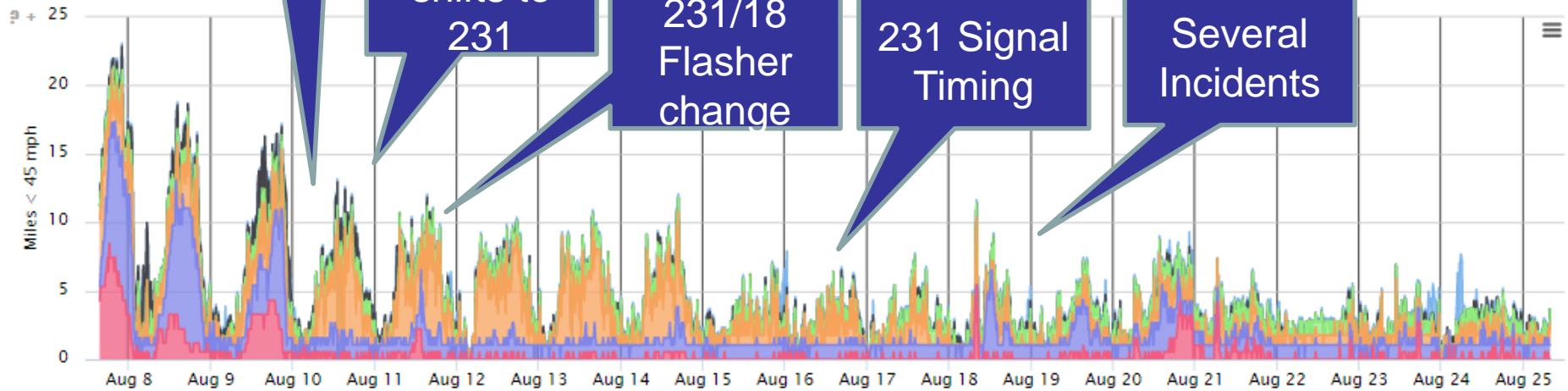
Cong
shifts to
231

I-65 N Detour Route

231/18
Flasher
change

231 Signal
Timing

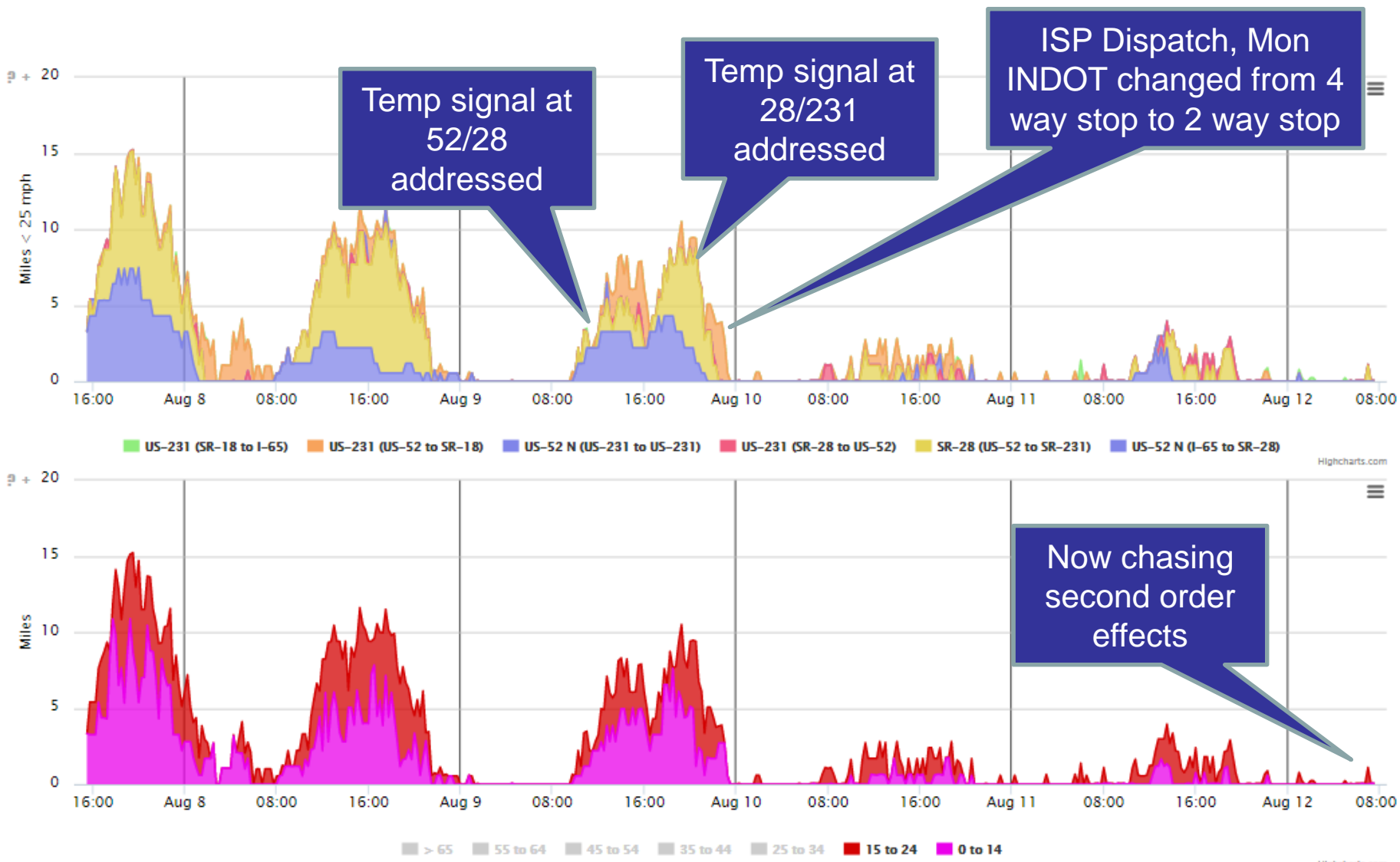
Several
Incidents



> 10 Miles
0-14 mph

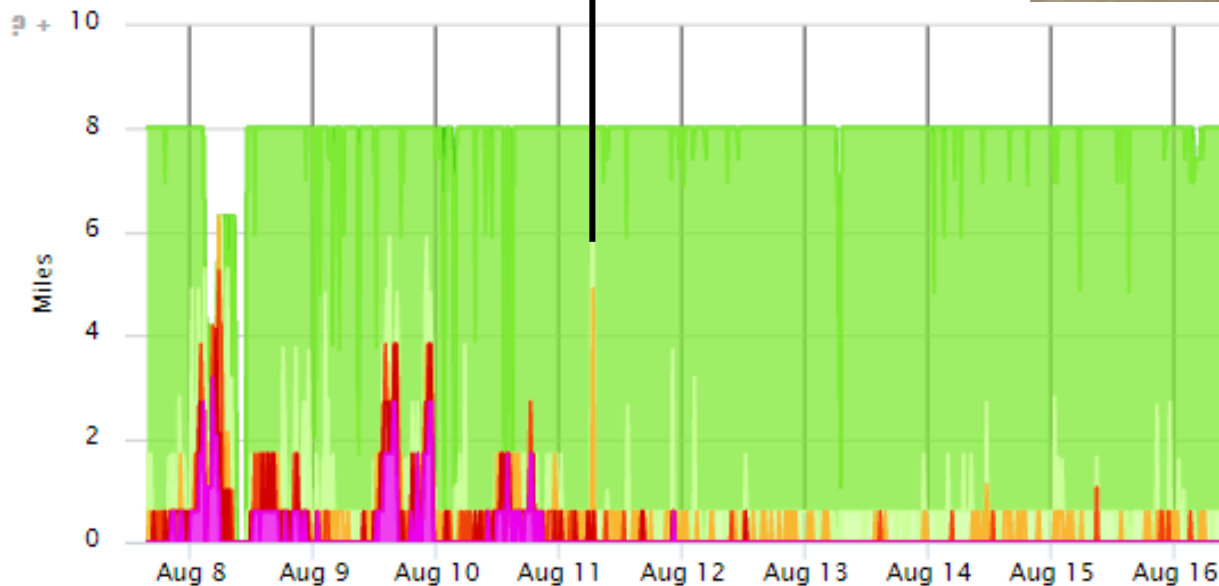
Most
measures
implemented

Signalization Impact



Impact of change from 4 way stop to 2 way stop (Aug 11)

Change from 4 way to 2 way stop



SR 28/US 231 Temporary Signal



Sunday, August 9, 2015
Ed Cox / Jim Sturdevant @ 231/28

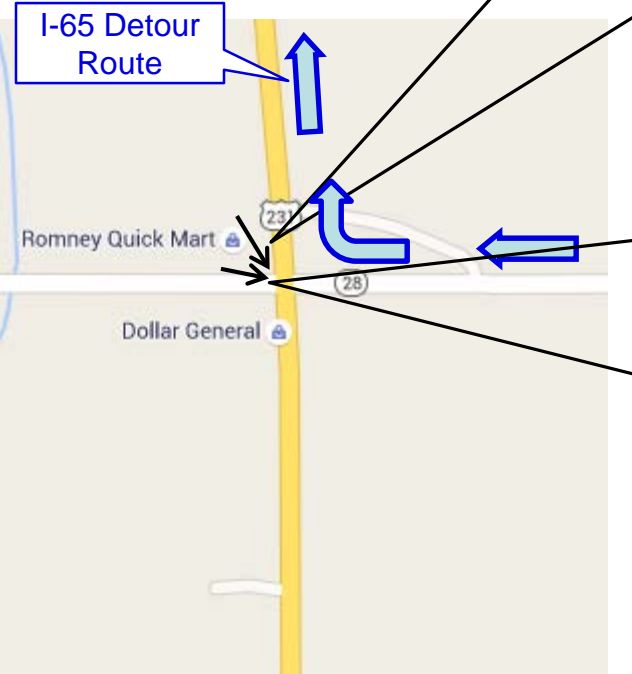


SR 28/US 52 Temporary Signal



Temporary Signal at US 231 & SR 28- Romney

- 2 phase signal
- Installed cell modem for remote access
- Monitored remotely and adjusted splits based on INRIX/Google traffic queuing



Boone
County Fatal

I-65 N Detour Route

Routes

- ☒ US-52 N (I-65 to SR-28)
- ☒ SR-28 (US-52 to US-231)
- ☒ US-231 (SR-28 to US-52)
- ☒ US-52 N (US-231 to US-52)
- ☒ US-231 (US-52 to SR-18)
- ☒ US-231 (SR-18 to I-65)
- ☐ US-52 N (SR-28 to SR-38)
- ☐ US-52 N (SR-38 to US-231)
- ☐ US-231 (I-74 to SR-28)
- ☐ SR-28 (I-65 to US-52)
- ☐ US-231 (I-65 to SR-18)
- ☐ US-231 (SR-18 to US-52)
- ☐ US-52 (US-231 to US-231)
- ☐ US-231 (US-52 to SR-28)
- ☐ SR-28 (US-231 to US-52)
- ☐ US-52 (SR-28 to I-65)

Display

- ☒ Miles
- ☐ Percentage

Axis Maximum

Set y-axis maximum: 50

Congested Speed

Speed limit for congestion:

> 45 mph

Date Range

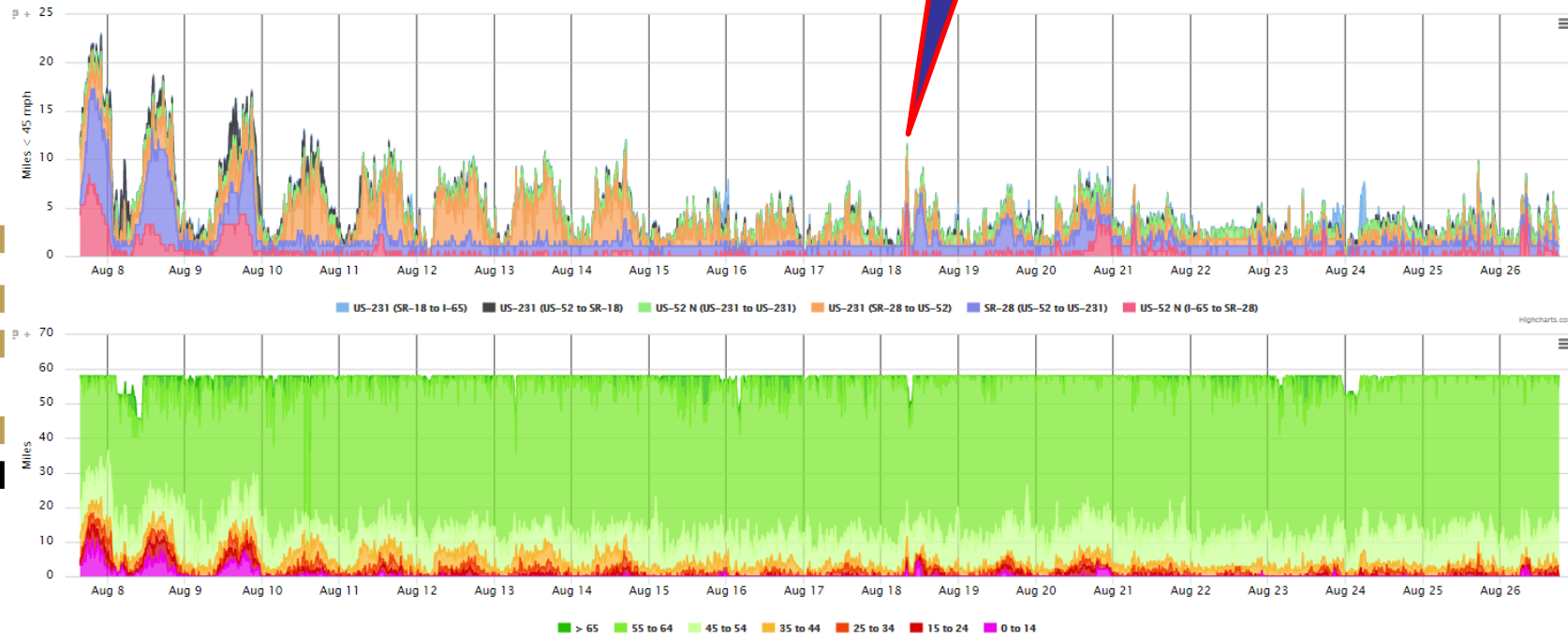
2015-08-07 to 2015-08-26

Refresh

15 Minute Summary:

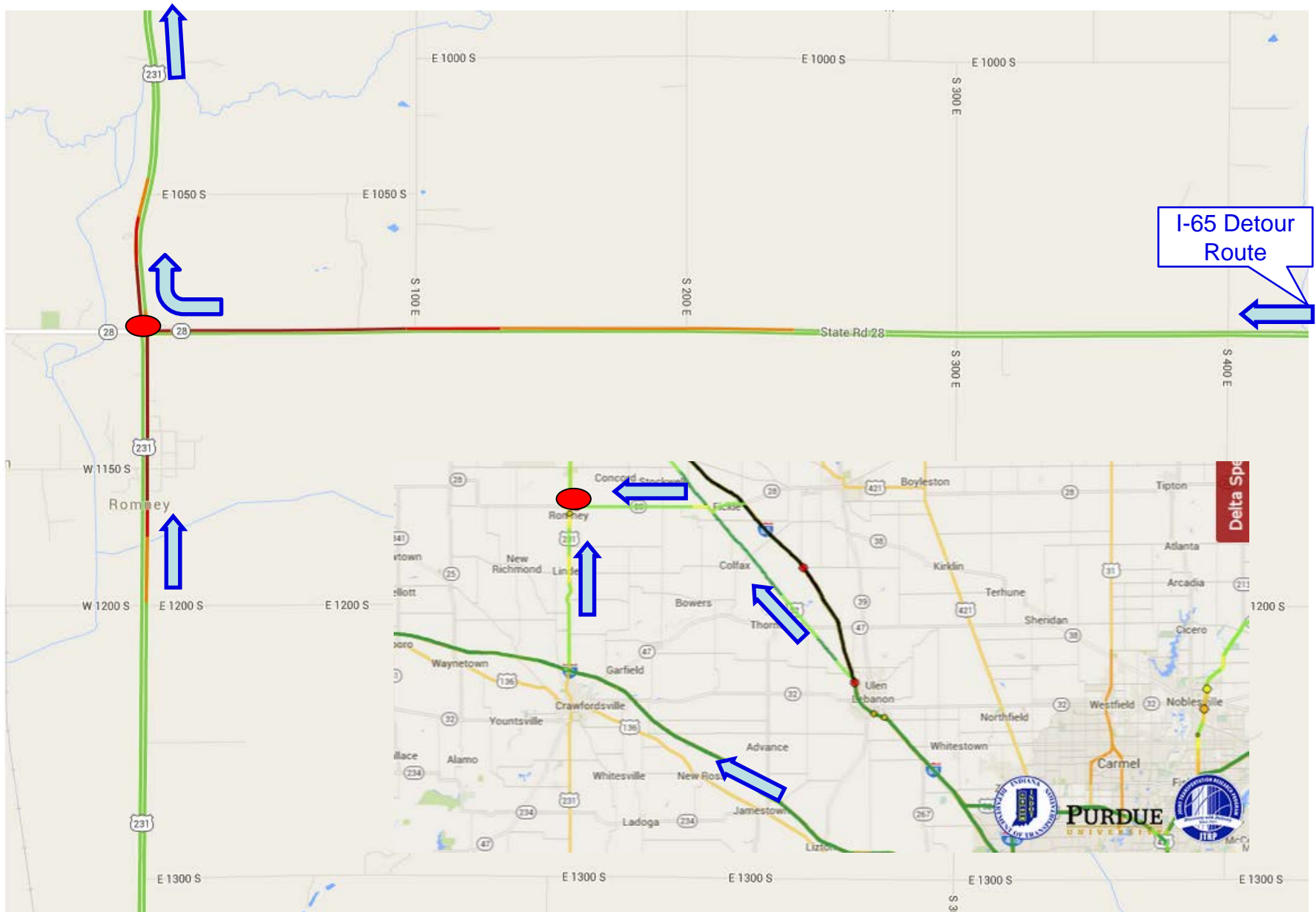
2015-08-26 22:15

UTC



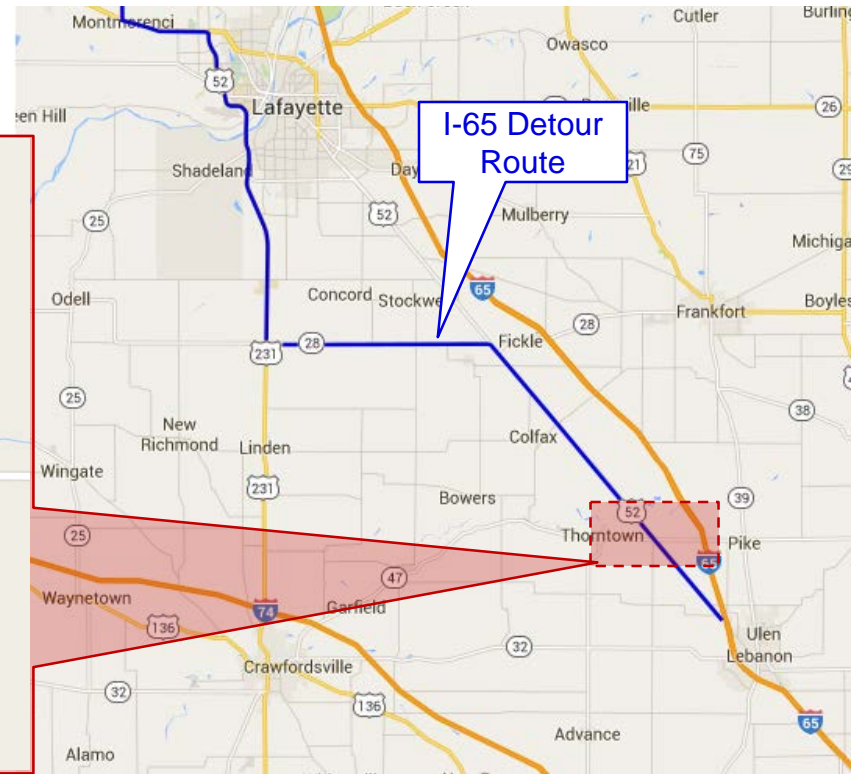
Temporary Signal at US 231 & SR 28

“All roads lead to Romney”

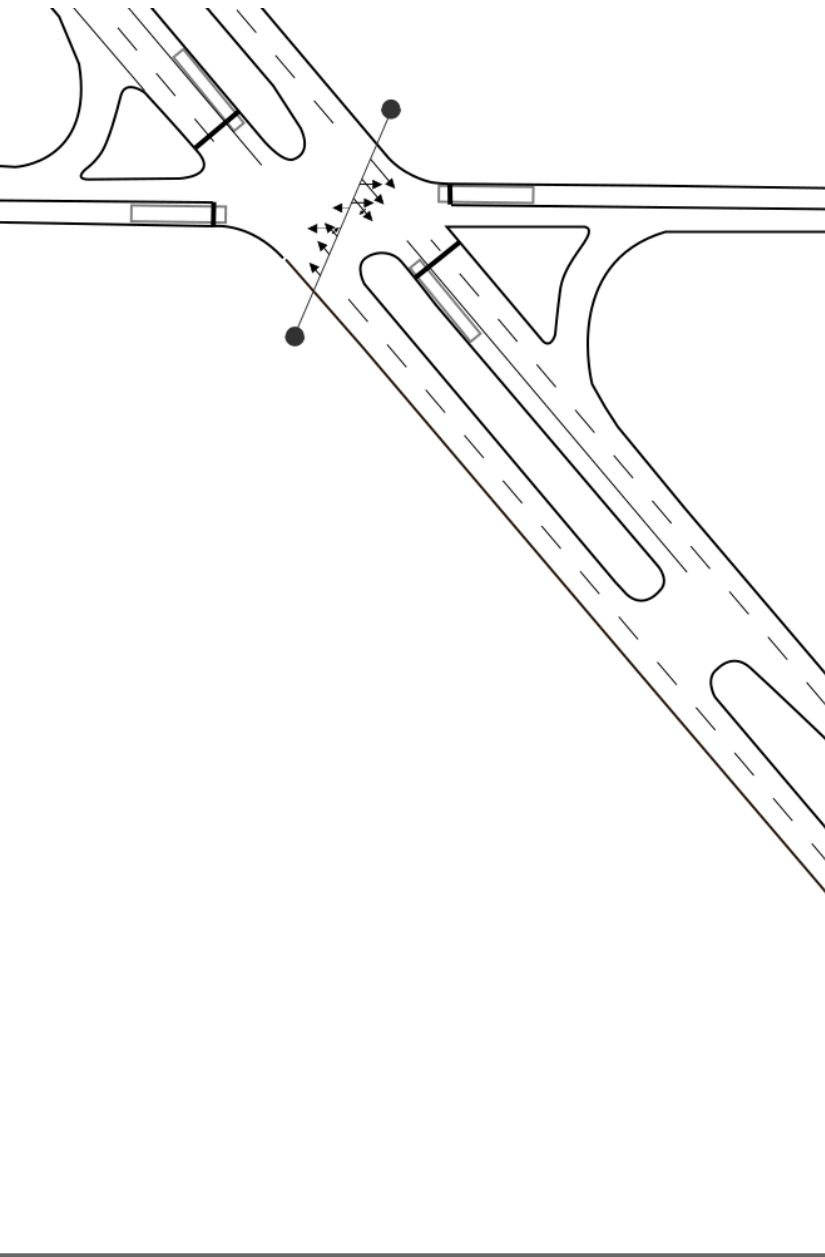


Temporary Signal at US 52 & SR 47

- Safety concern at US 52 & SR 47
 - 2 way stop controlled E/W
 - High crash history prior to closure
- Signal installed to increase safety
 - Constructed overnight, ~12 hours
- Special detection installed to limit dilemma zone issues, red light running

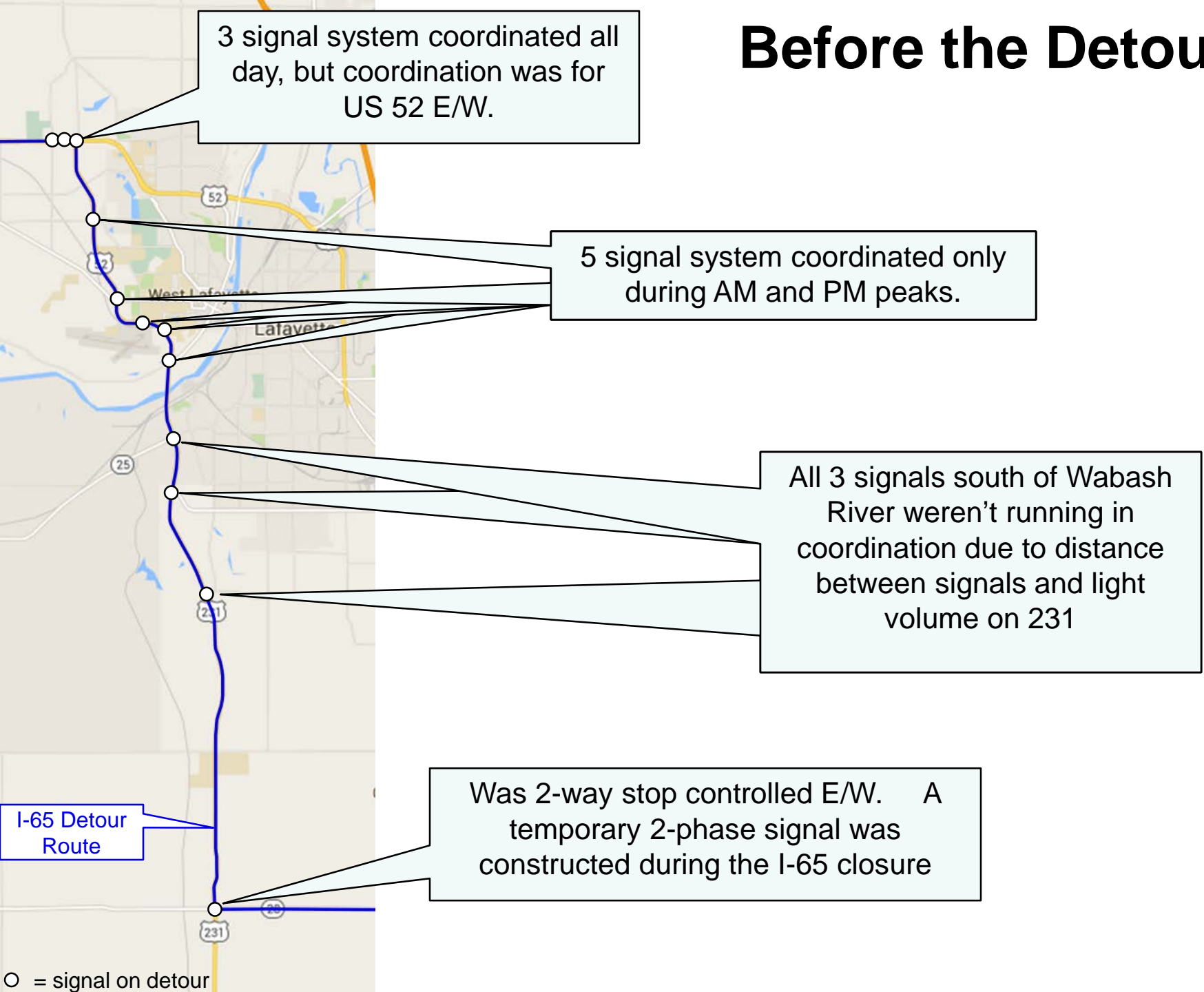


Temporary Signal at US 52 & SR 47

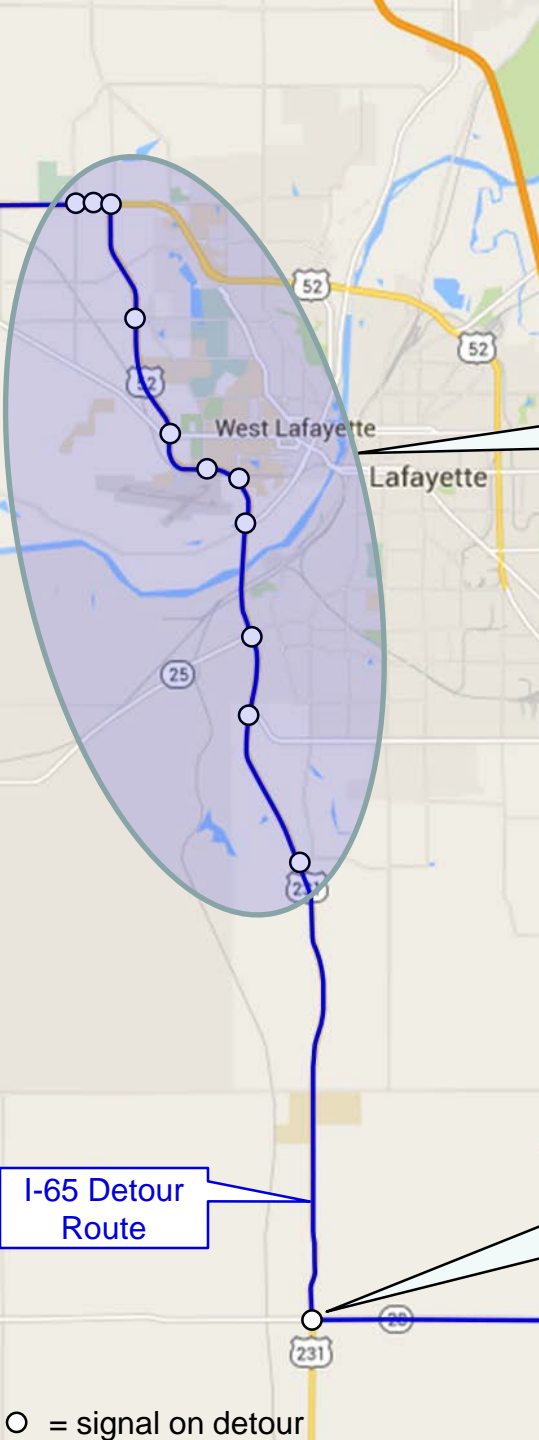


- Installed speed sieve detection to extend phase safely for all vehicles travelling 40-70mph
- NB phase ran free with long min and longer max
- Eventually would gap out when no vehicles were approaching, serve SR 47 vehicles safely

Before the Detour



During the Detour



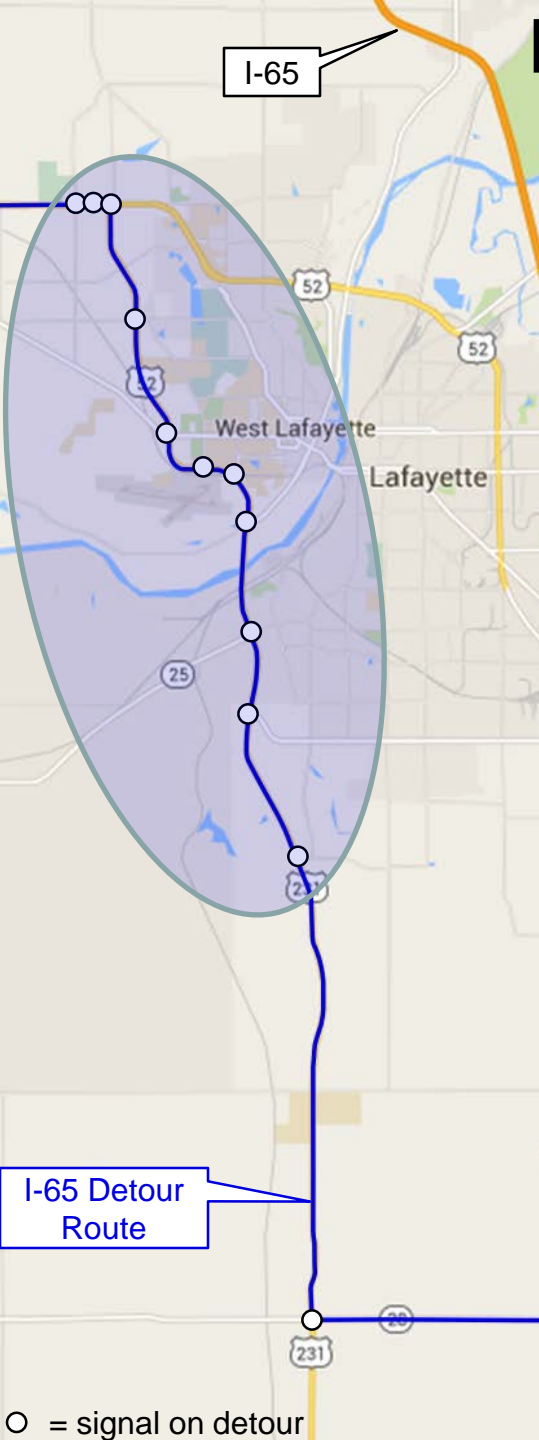
Coordinated all signals and ran same plan 24/7. 150 second cycle, large split for NB. Offsets were aligned solely for northbound progression

Temporary signal was programmed with progressive splits allowing more time for WB interstate volume, changed during day based on traffic monitored remotely

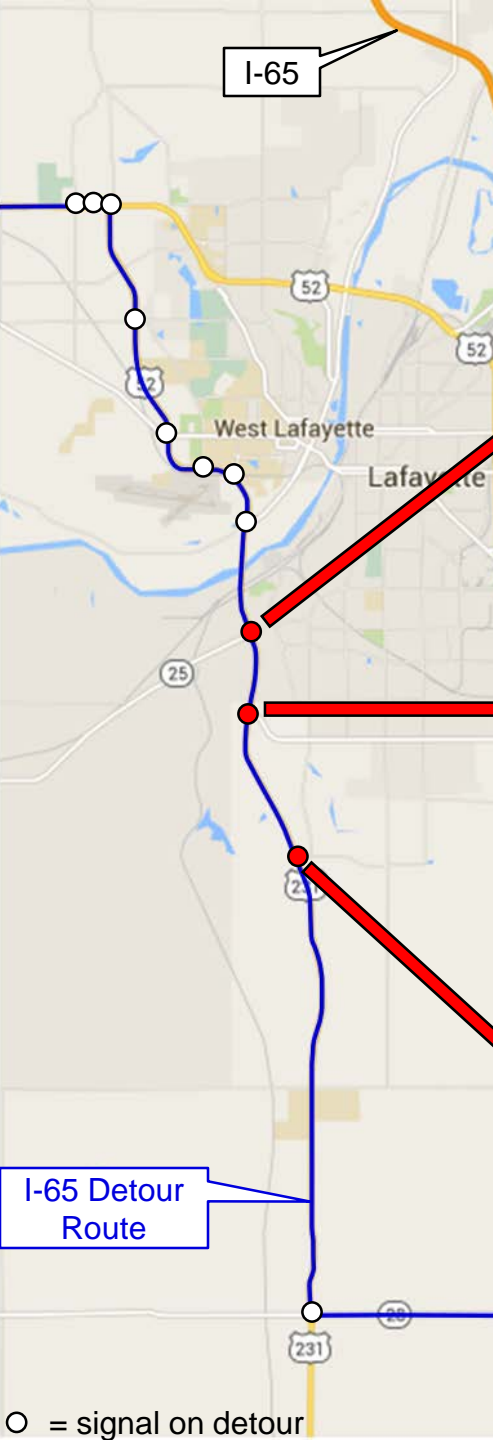
I-65 Detour Route

○ = signal on detour

Retiming the Greater Lafayette Corridor



- All signals were retimed during the first week of the closure
- Coordinated every signal, only caring about northbound progression
- 150 second cycle length, heavily favoring northbound phase, (or westbound on north end)
- Adjusted offsets with goal of all signals having > 90% arrivals on green



Before Retiming

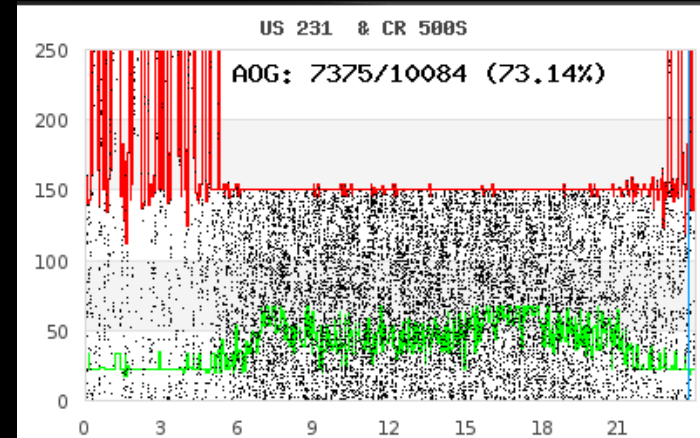
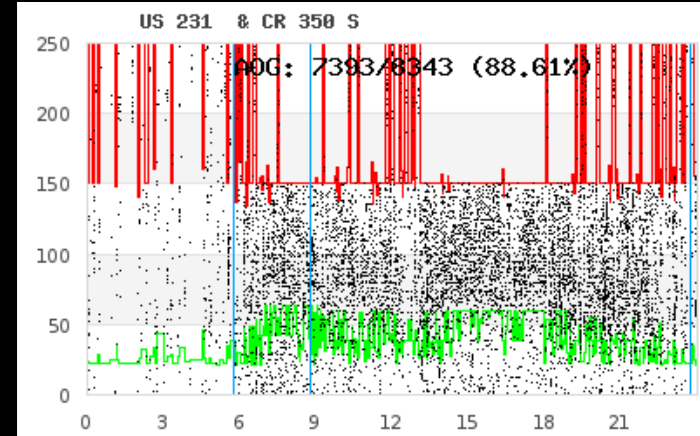
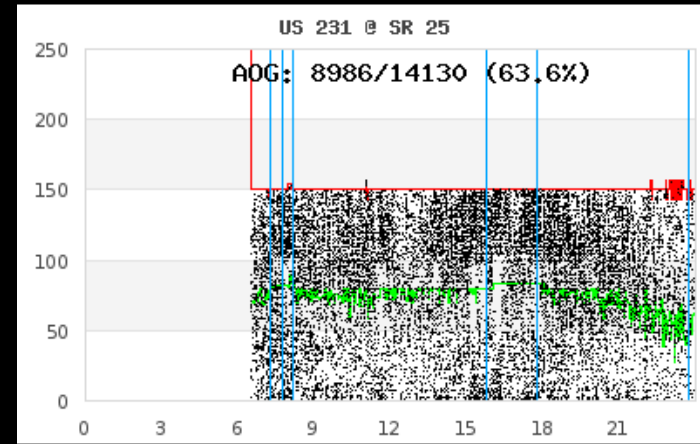
No data*
Free with 75s NB Max

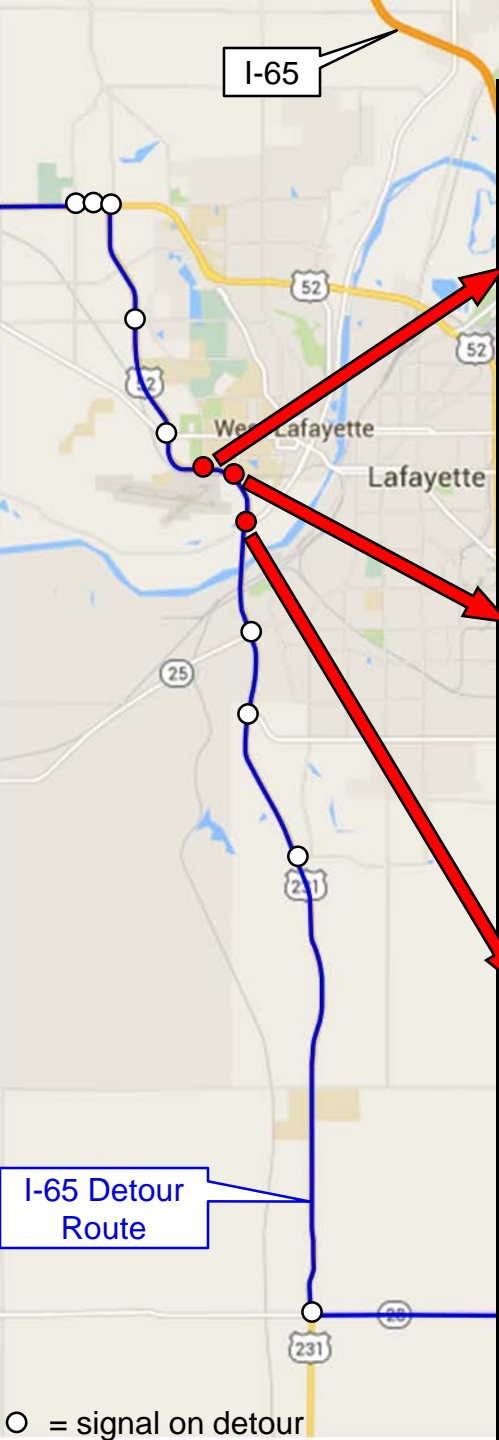
No data*
Free with 75s NB Max

No data*
Free with 75s NB Max

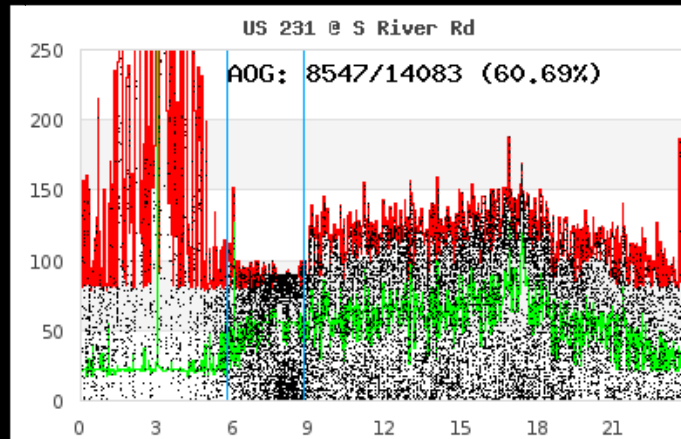
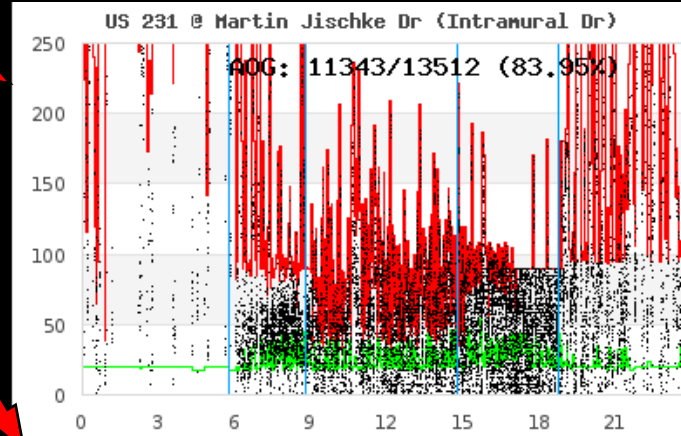
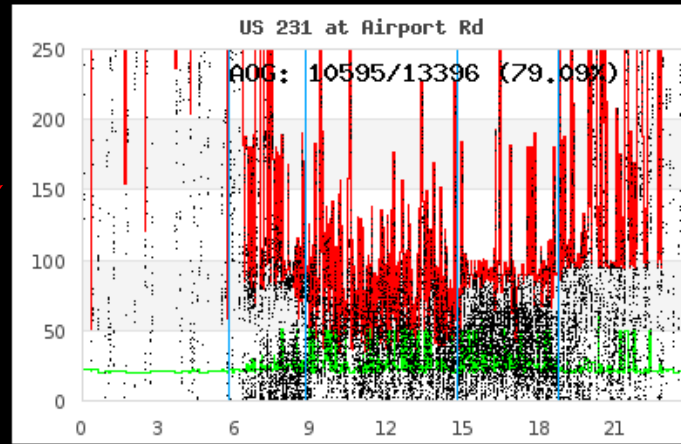
*Old controller prior to retiming

After Retiming

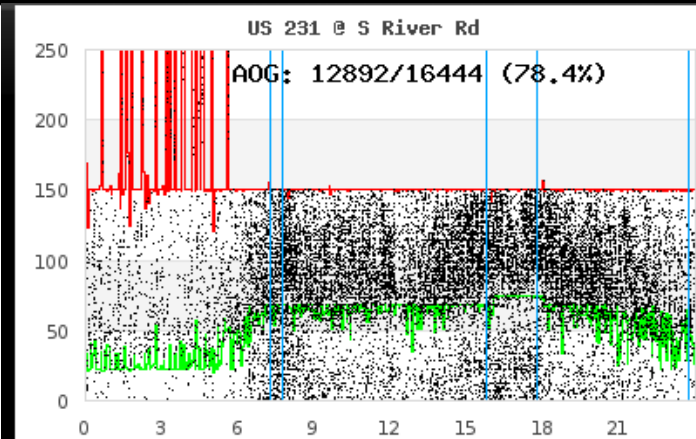
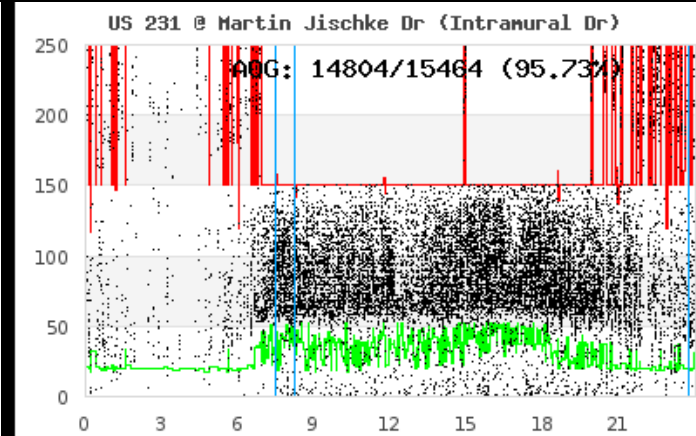
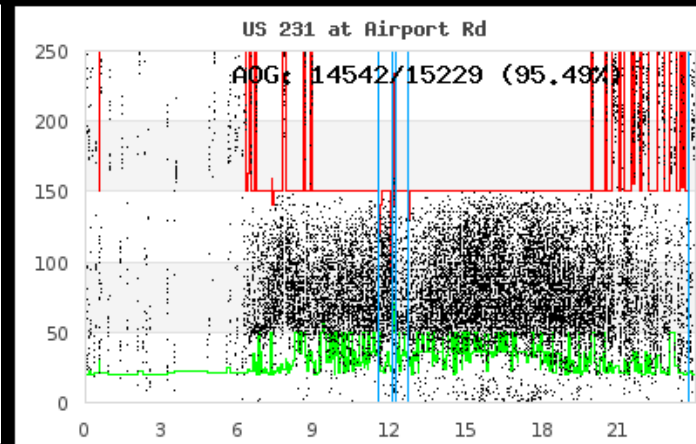


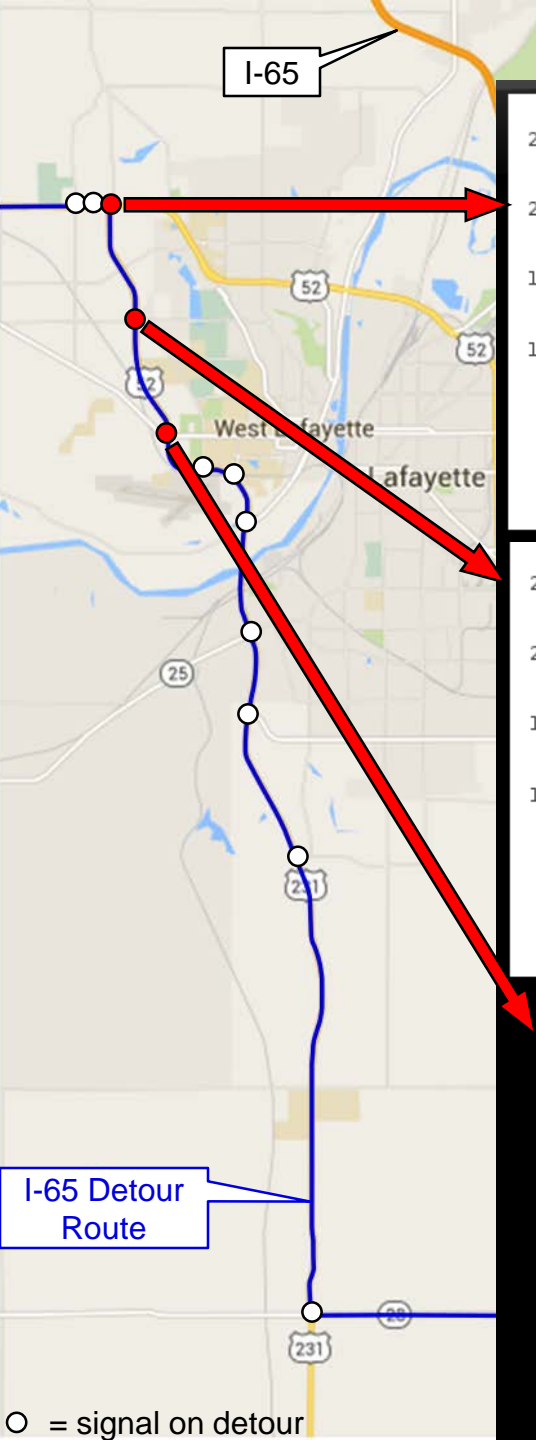


Before Retiming

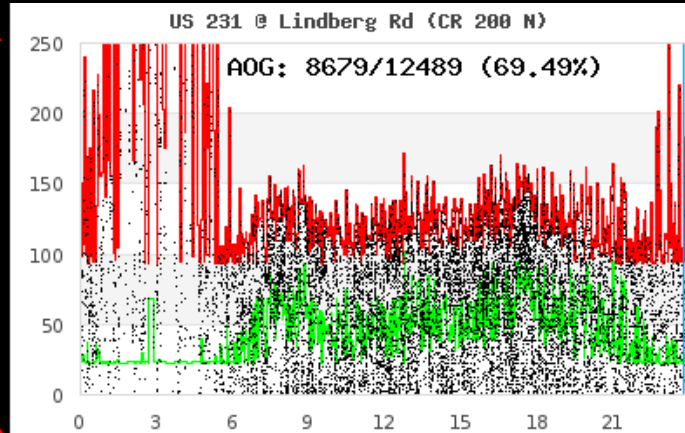
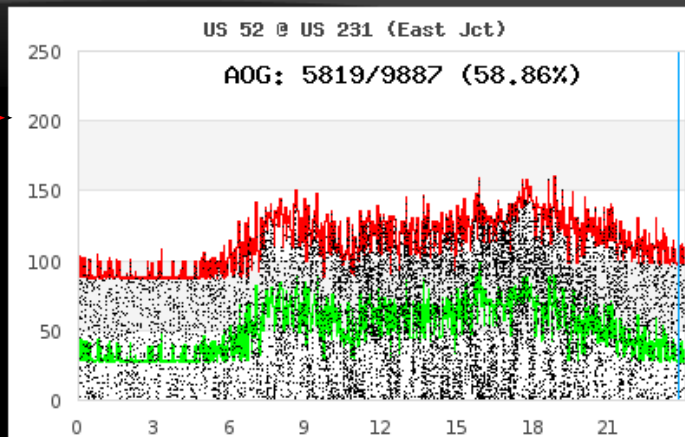


After Retiming





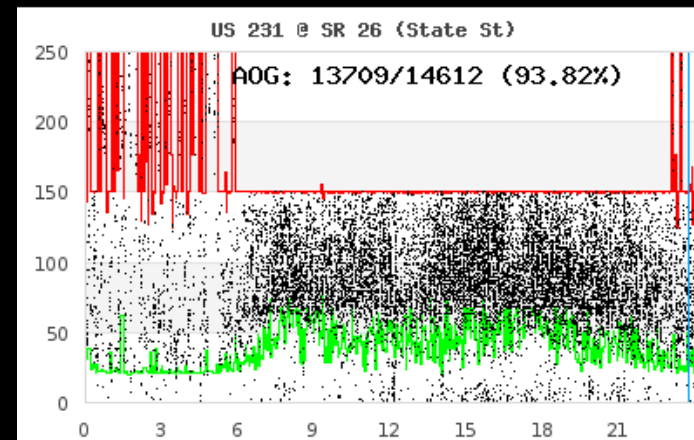
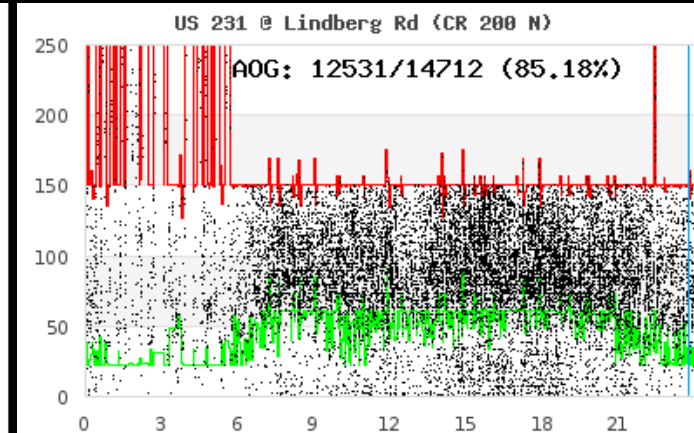
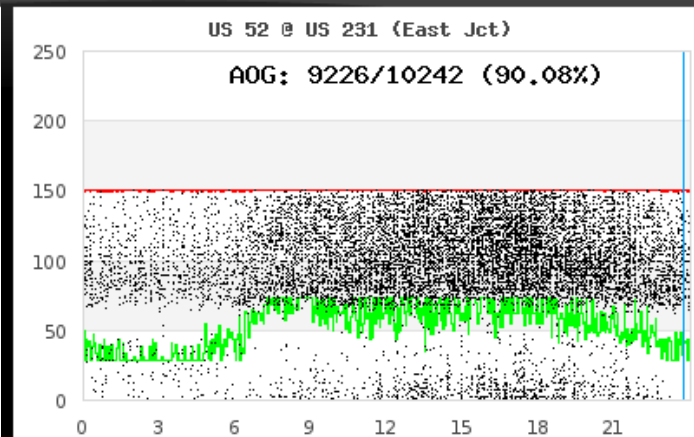
Before Retiming



No data*

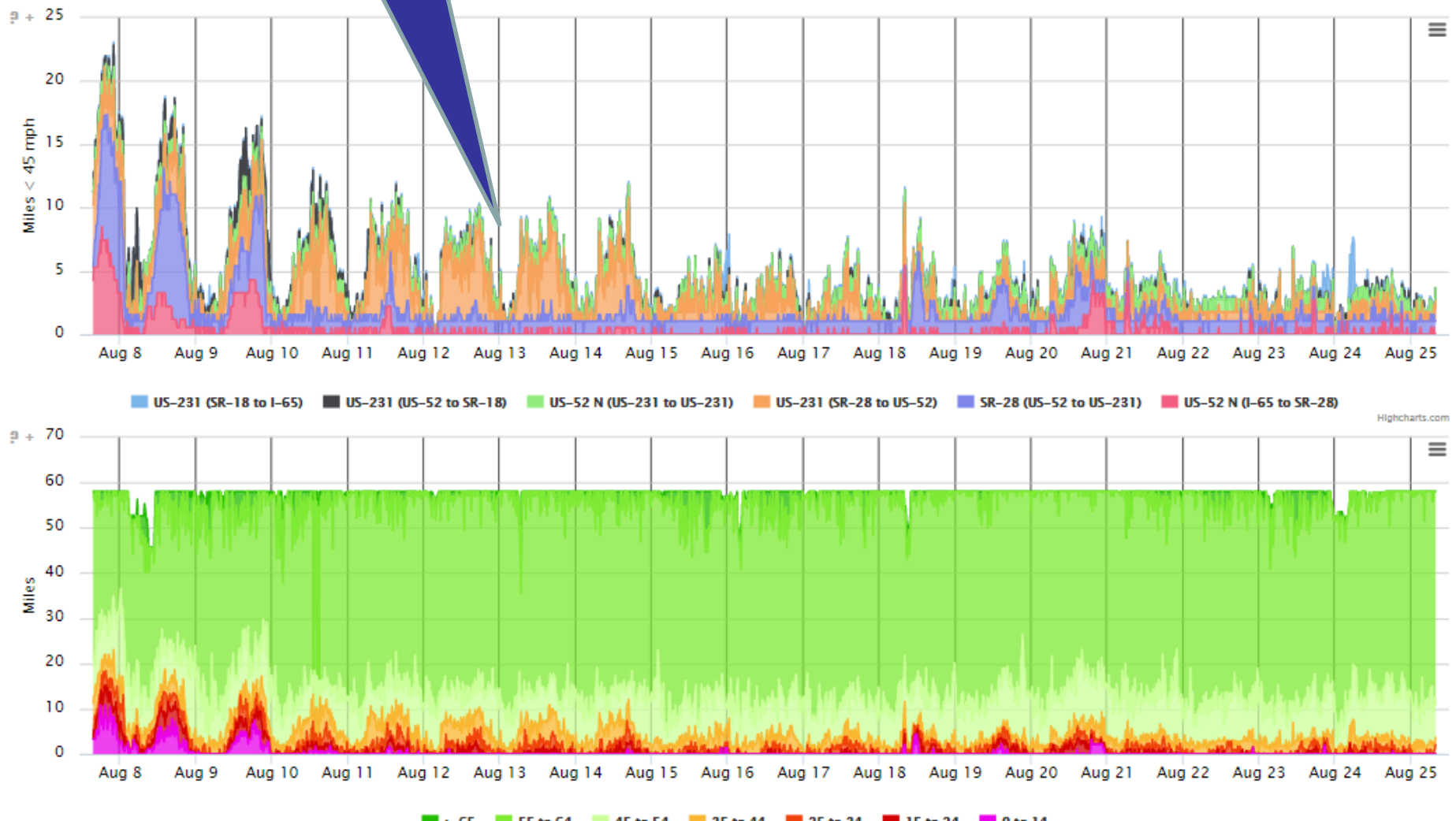
*Data logging issue corrected after retiming

After Retiming



Public Safety Dialog

I-65 N Detour Route



Temp Signals
Installed

Cong shifts to
231

231/18
Flasher
change

231 Signal
Timing

Boone
County Fatal

Exit 193
Tanker Roll
Over

Boone
County
Mobile Home

I-65 Detour Route

Routes

- ✓ US-52 N (I-65 to SR-28)
- ✓ SR-28 (US-52 to US-231)
- ✓ US-231 (SR-28 to US-52)
- ✓ US-52 N (US-231 to US-231)
- ✓ US-231 (US-52 to SR-18)
- ✓ US-231 (SR-18 to I-65)
- ✓ US-52 N (SR-28 to SR-38)
- ✓ US-52 N (SR-38 to US-231)
- ✓ US-231 (I-74 to SR-28)
- ✓ SR-28 (I-65 to US-52)
- ✓ US-231 (I-65 to SR-18)
- ✓ US-231 (SR-18 to US-52)
- ✓ US-52 (US-231 to US-231)
- ✓ US-231 (US-52 to SR-28)
- ✓ SR-28 (US-231 to US-52)
- ✓ US-52 (SR-28 to I-65)

Display

- Miles
- Percentage

Axis Maximum

Set y-axis maximum 50

Congested Speed

Speed limit for congestion:

> 45 mph

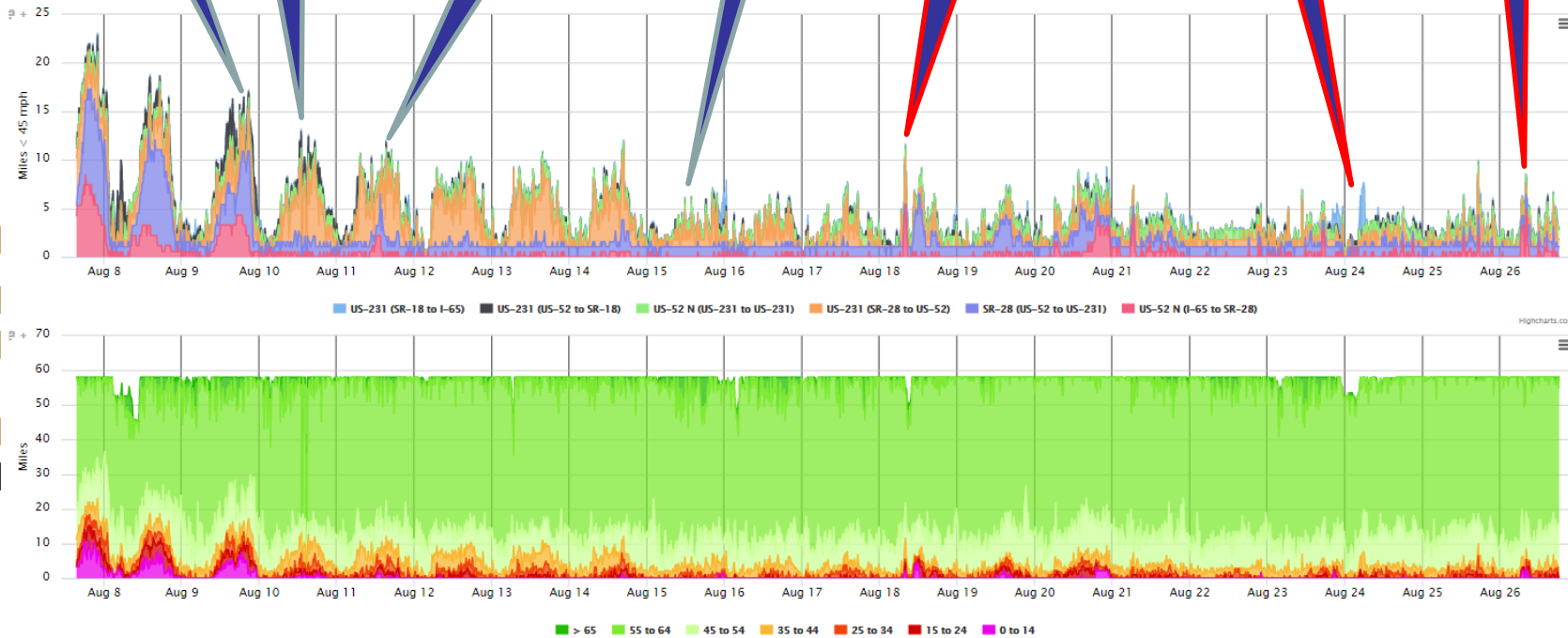
Date Range

2015-08-07 to 2015-08-26

Refresh

15 Minute Summary:

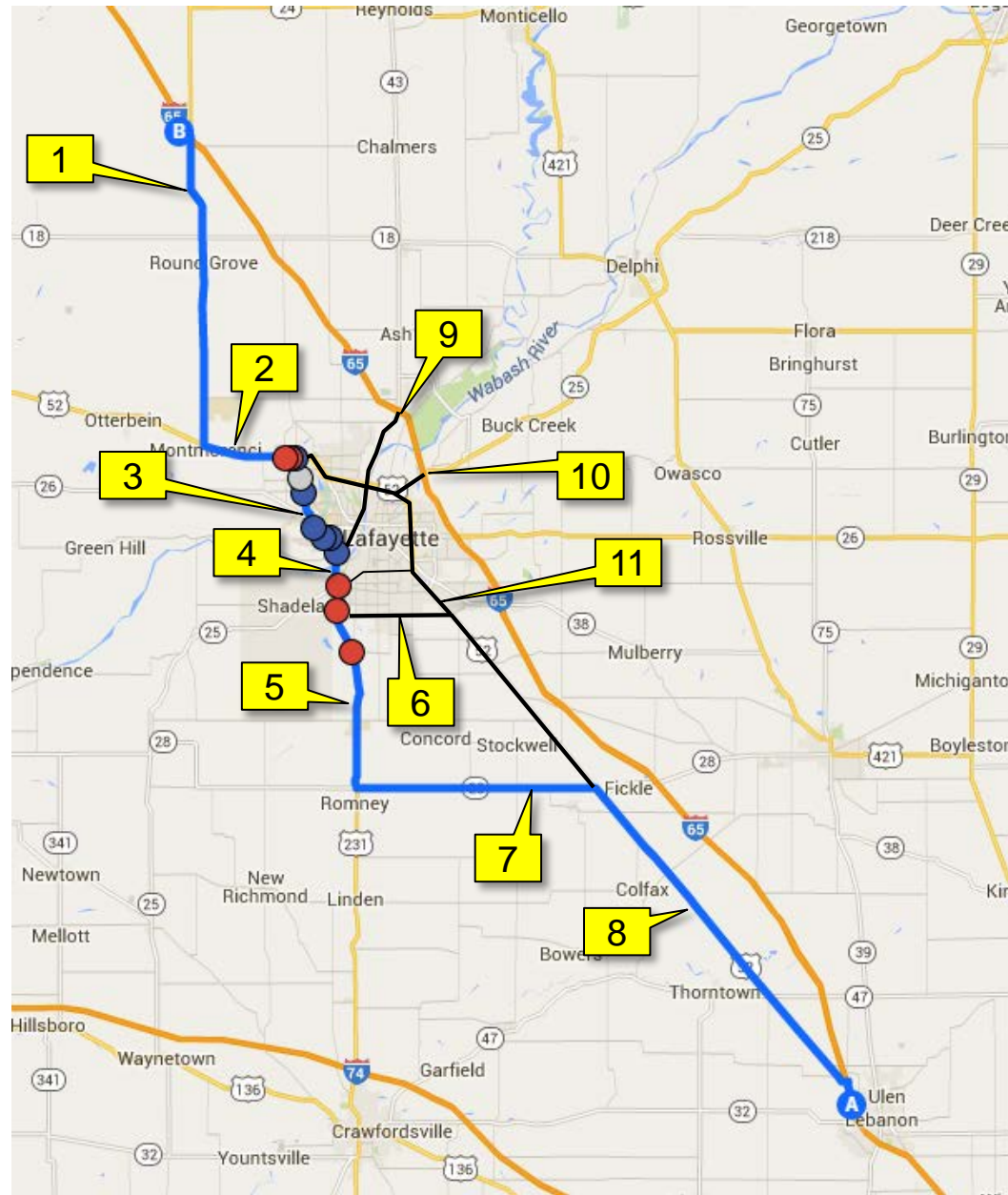
2015-08-26 22:15
UTC



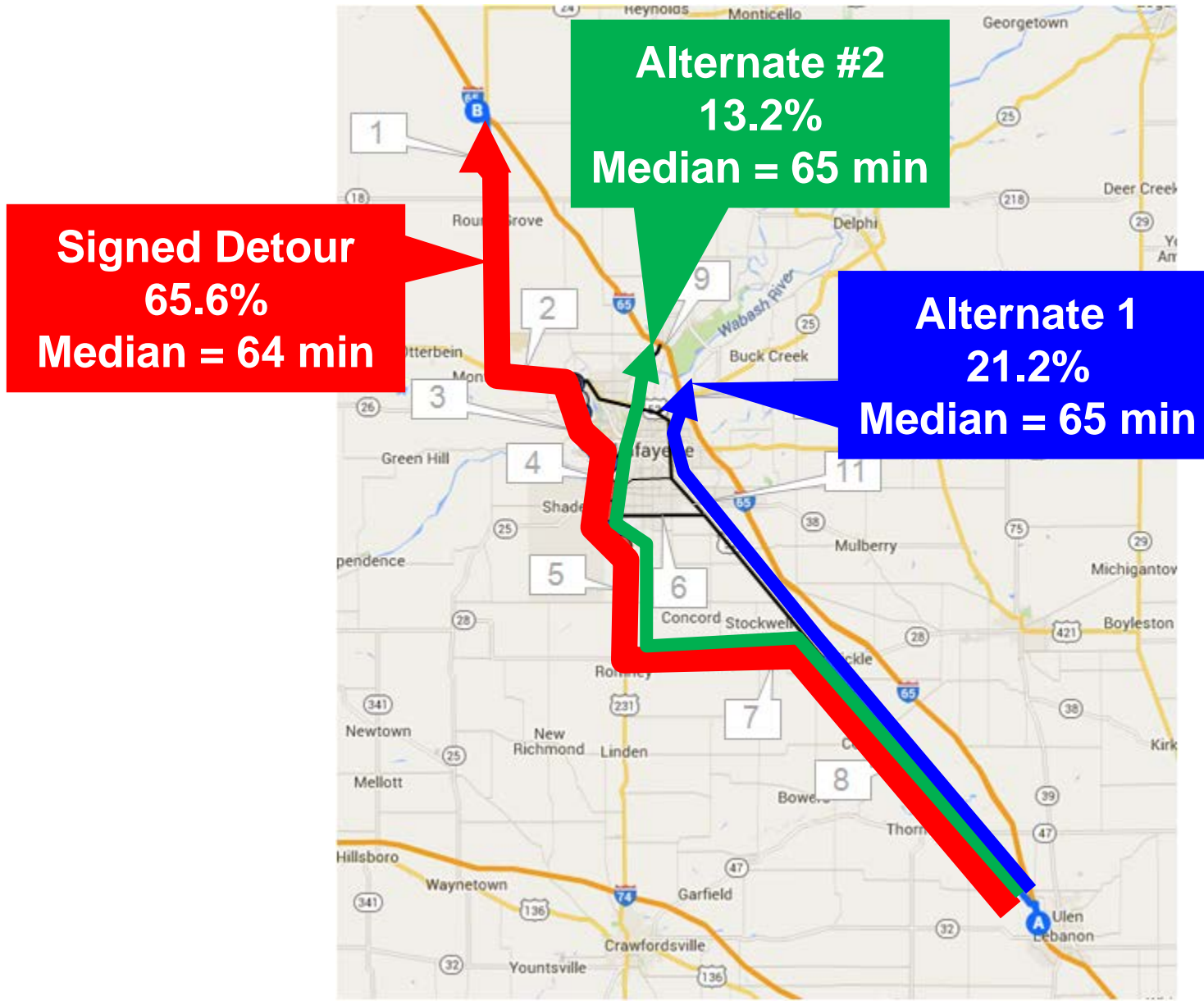
Public Safety Workshop: August 13, 2015



Blue Tooth Data Collection Locations to assess route choice and validate INRIX...



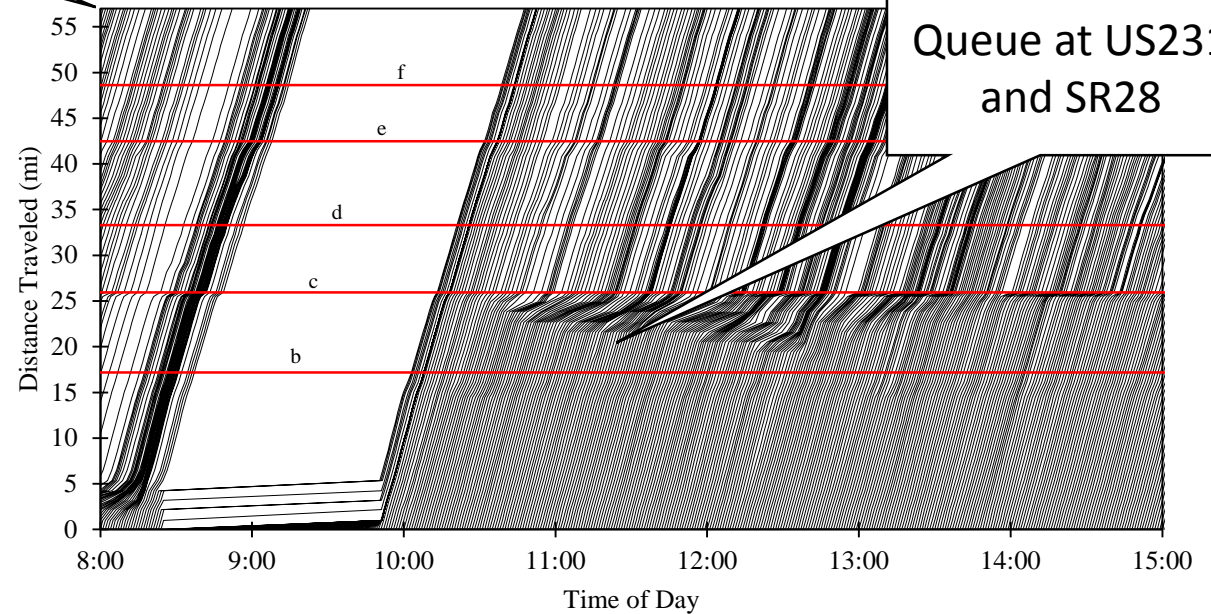
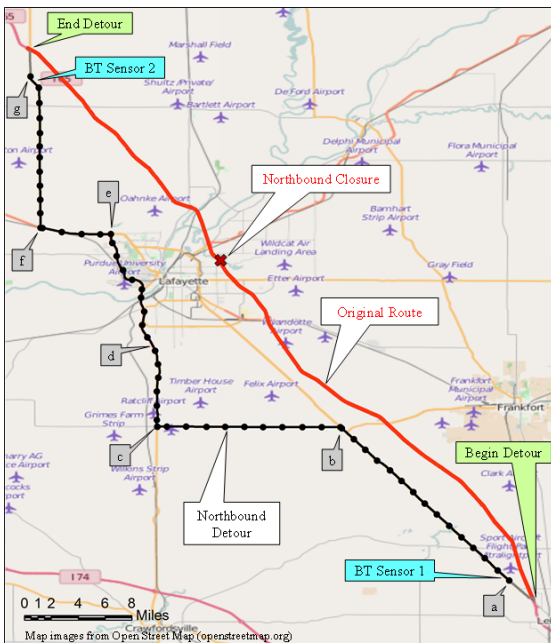
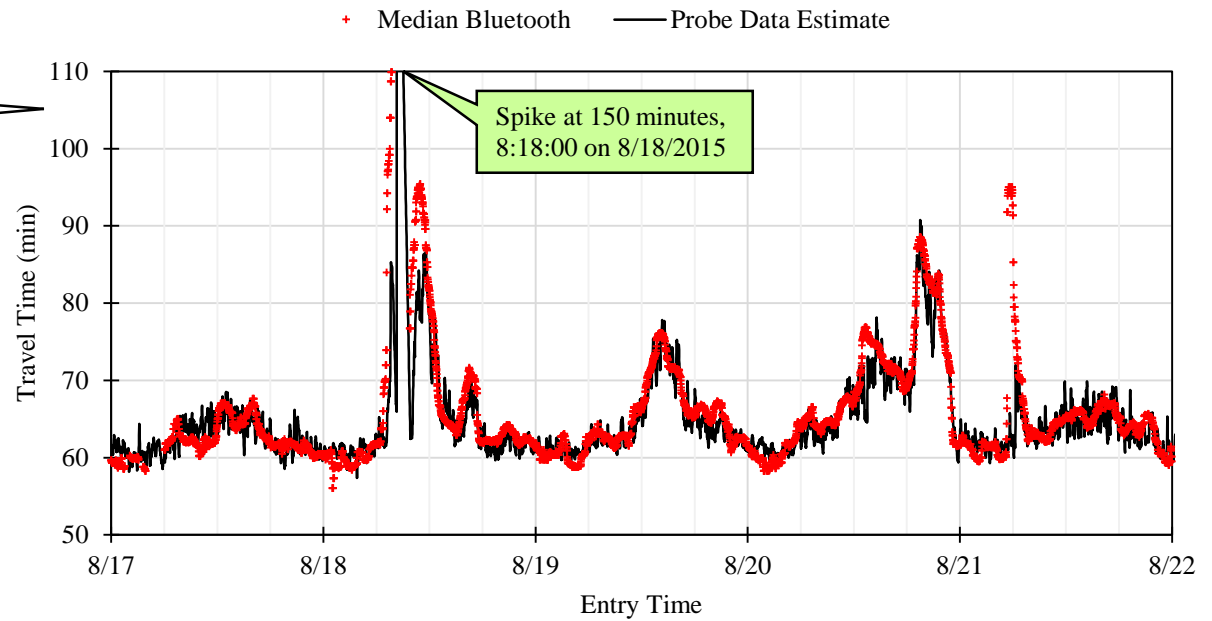
Did Motorists Favor the Detour Route?



Travel Time,
BT vs algorithm

Out of 20 periods
examined, 18 periods had
less than 3.5% error

Trajectory
reconstruction
using INRIX



Using Metrics to change the narrative.

4A Thursday, August 6, 2015 www.jcoffline.com • Journal & Courier

Detour Diary: How bad was the detour really?

By Hannah Smith Kiefer
hannah@jcoffline.com

As the queen of construction stories at the Journal & Courier, I report on detour routes and road closures a lot. That includes, of course, the Interstate 65 detour caused by the closure of the Wildcat Creek Bridge on Wednesday. So I decided to drive that route. I thought it would take two hours tops.

I was wrong. It took four. I documented the experience on Twitter, through tweets, photos and videos. I laughed. I yelled. I called a towworker multiple times asking if I could turn around. But I did not — I drove the whole way, from U.S. 52 in Lebanon, Indiana 28 to U.S. 231. Here's my experience living the kind of detour I write about every day.

Check out the whole, maddening journey on my Twitter feed @hannahmit.

12:29 a.m. About to go drive the I-65 detour for myself? Follow along here to see how the drive goes. Will be tweeting via Siri when safe.

11:54 a.m. Made it to Lebanon, about to embark on the detour.

12:19 p.m. First standstill. Didn't take long.

12:20 p.m. The true test in all this will be on my poor Jeep's gas tank. #threequarters tank

12:44 p.m. See y'all in like ten hours when I get through this detour.

1:53 p.m. I'm going to kick something.

2:03 p.m. FYI @jcoffline editors, don't think I'm making that 2:30 meeting today. Even though I left at like ELEVEN THIRTY.

2:33 p.m. It would be faster to take one of these guys

2:58 p.m. If someone told me Ford I will post a myself singing to the #desperate housewife today

3:11 p.m. Oh my made it to Romney

3:27 p.m. Thank just saw a welcome fayette sign!

3:50 p.m. HON

2:11 P.M. Out behind me ju turned around TAKE ME WITH YOU. #65 #fourlife



- Improvement to drive ~60 miles from 4 hours to about 64 minutes
- Bad news stories stopped being published
- Many reports of driving detour with zero to one stop!
- Media advocating use of the detour.

Thank you

- darcy@purdue.edu
- @darcybullock (Twitter)

Questions?

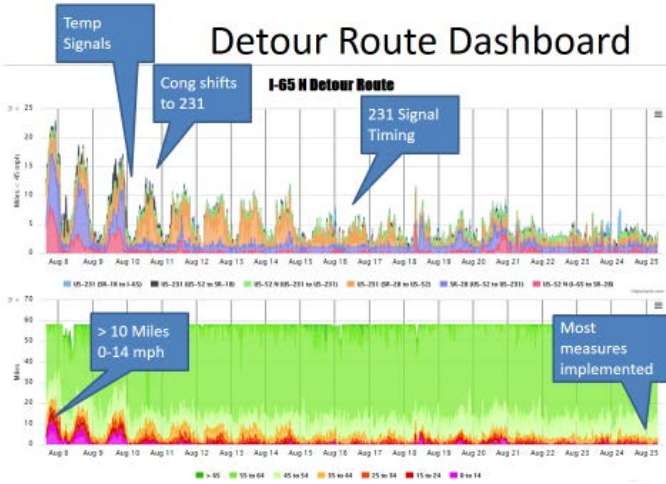
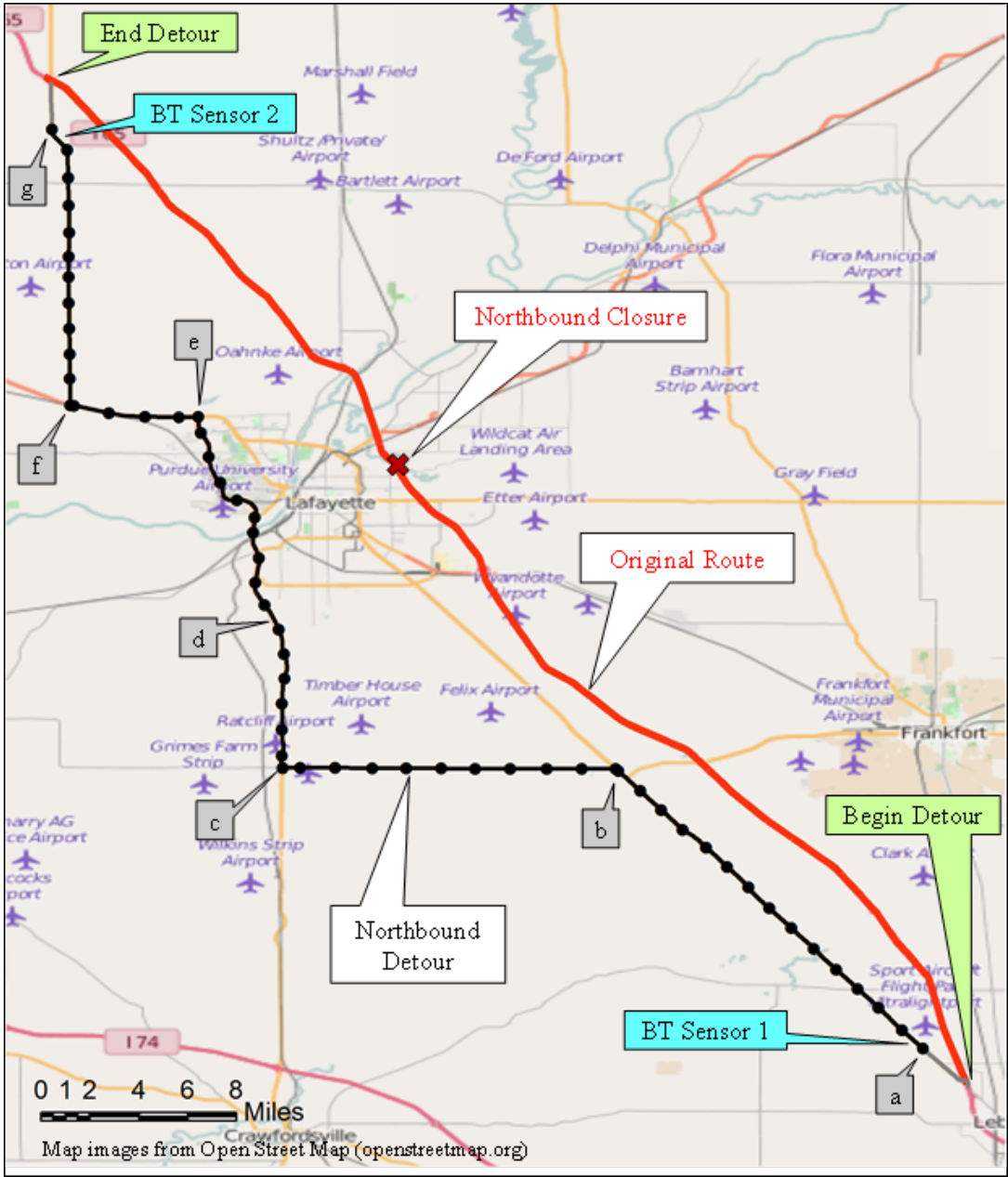


Thank you!!

- Contact:
- **Jim Sturdevant**
jsturdevant@indot.in.gov

Ed Cox
Ecox@indot.in.gov

Route Builder and Trajectory Analysis



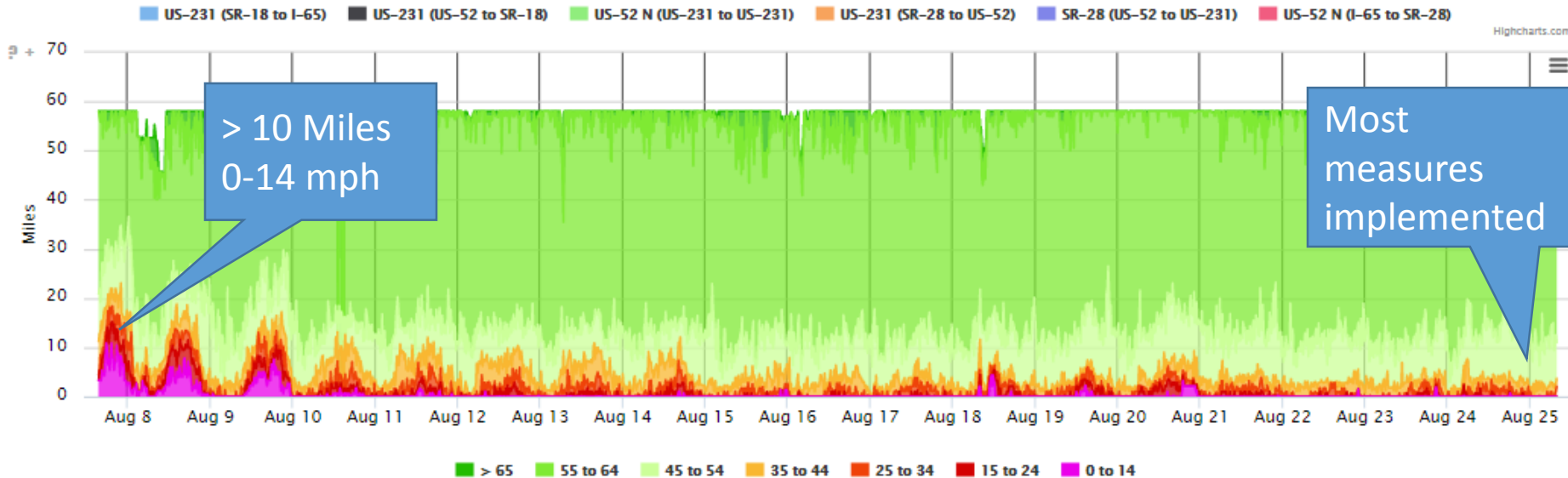
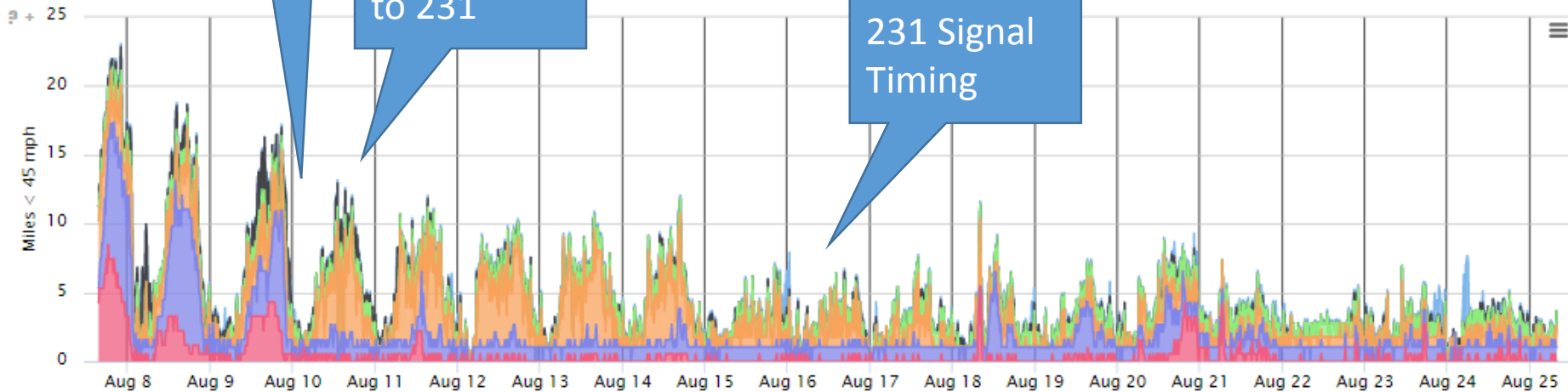
Temp
Signals

Detour Route Dashboard

Cong shifts
to 231

I-65 N Detour Route

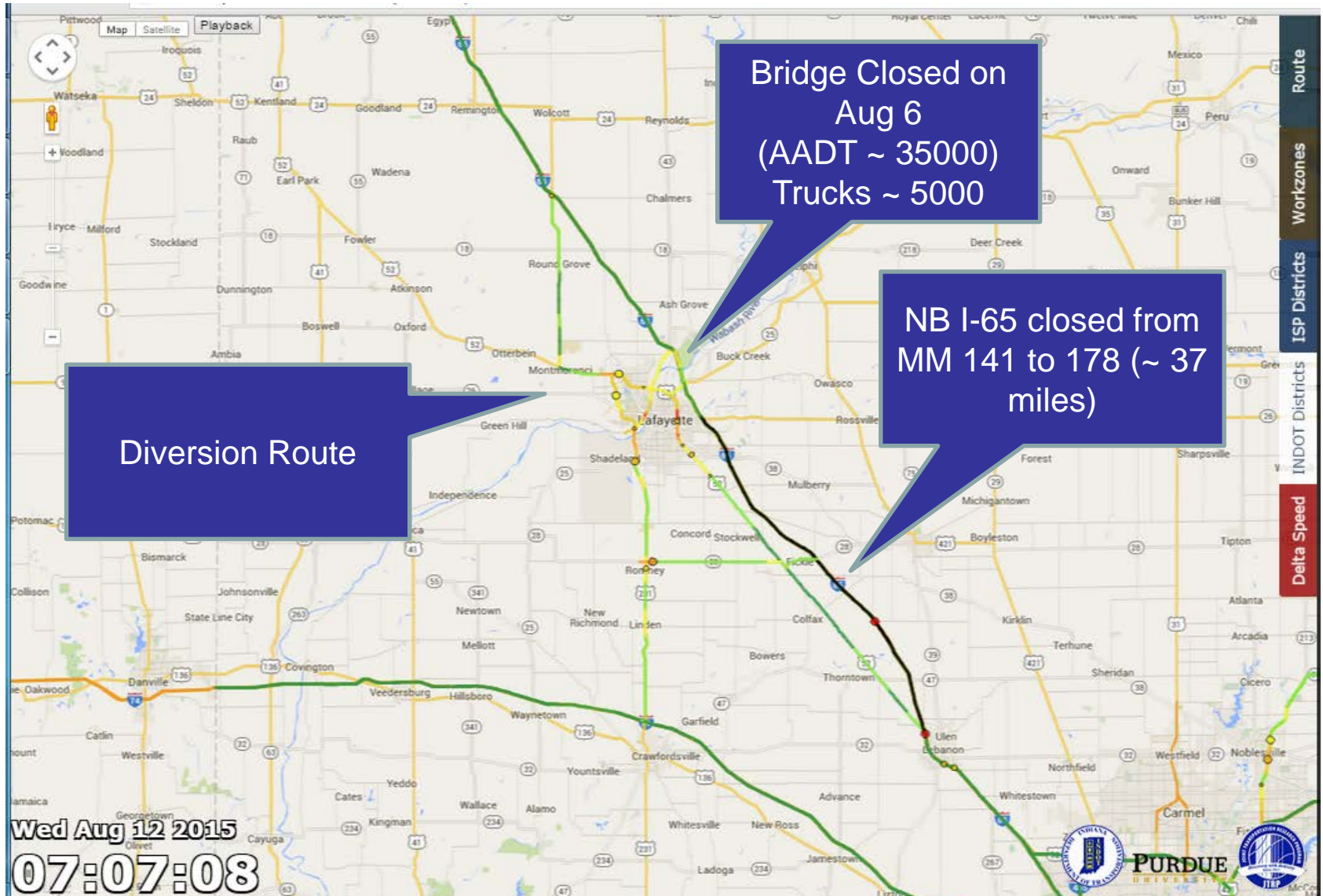
231 Signal
Timing



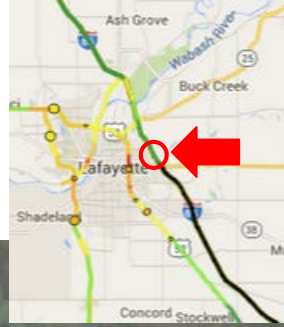
> 10 Miles
0-14 mph

Most
measures
implemented

Interstate Diversion



Northbound I-65 Bridge Closure... The Problem



SR 28/US 231 Temporary Signal



SR 28/US 52 Temporary Signal



Temp Signals
Installed

Cong shifts to
231

231/18
Flasher
change

231 Signal
Timing

Boone
County Fatal

Exit 193
Tanker Roll
Over

Boone
County
Mobile Home

I-65 Detour Route

Routes

- ✓ US-52 N (I-65 to SR-28)
- ✓ SR-28 (US-52 to US-231)
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- ✓ US-52 N (SR-28 to SR-38)
- ✓ US-52 N (SR-38 to US-231)
- ✓ US-231 (I-74 to SR-28)
- ✓ SR-28 (I-65 to US-52)
- ✓ US-231 (I-65 to SR-18)
- ✓ US-231 (SR-18 to US-52)
- ✓ US-52 (US-231 to US-231)
- ✓ US-231 (US-52 to SR-28)
- ✓ SR-28 (US-231 to US-52)
- ✓ US-52 (SR-28 to I-65)

Display

- Miles
- Percentage

Axis Maximum

Set y-axis maximum 50

Congested Speed

Speed limit for congestion:

> 45 mph

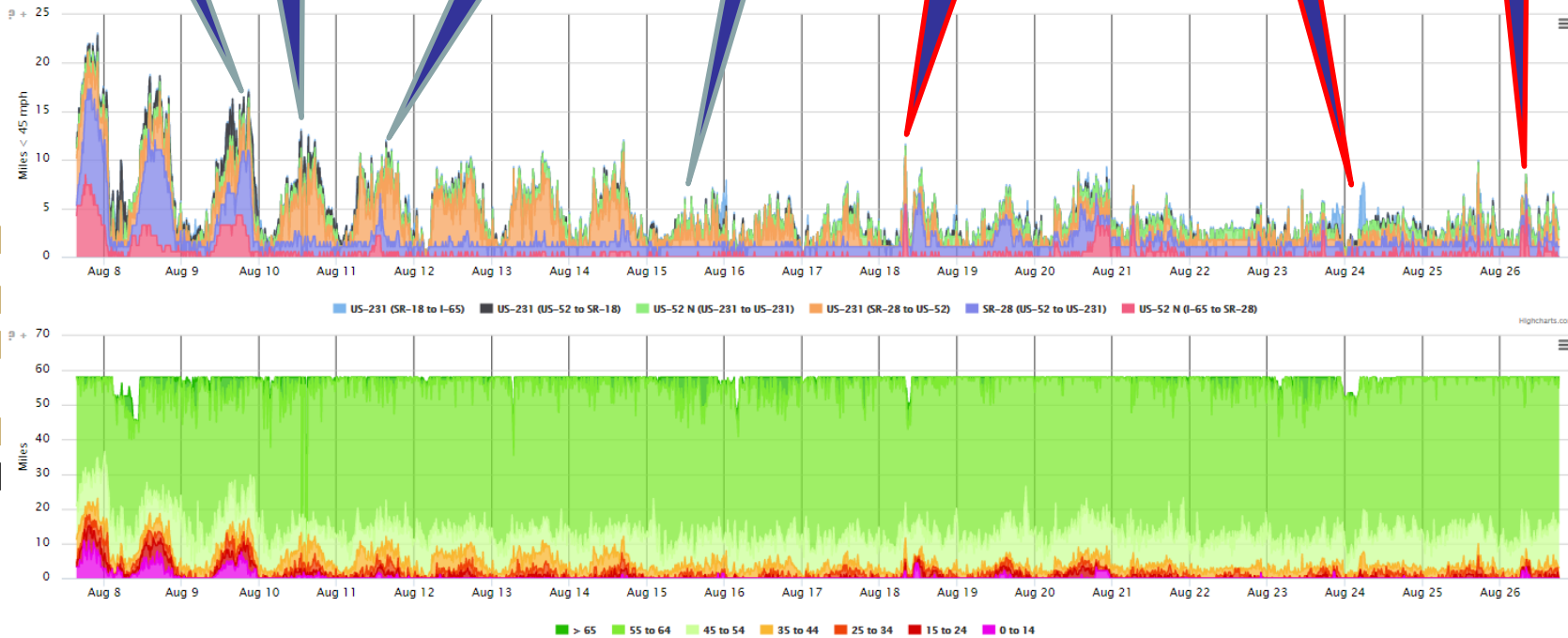
Date Range

2015-08-07 to 2015-08-26

Refresh

15 Minute Summary:

2015-08-26 22:15
UTC

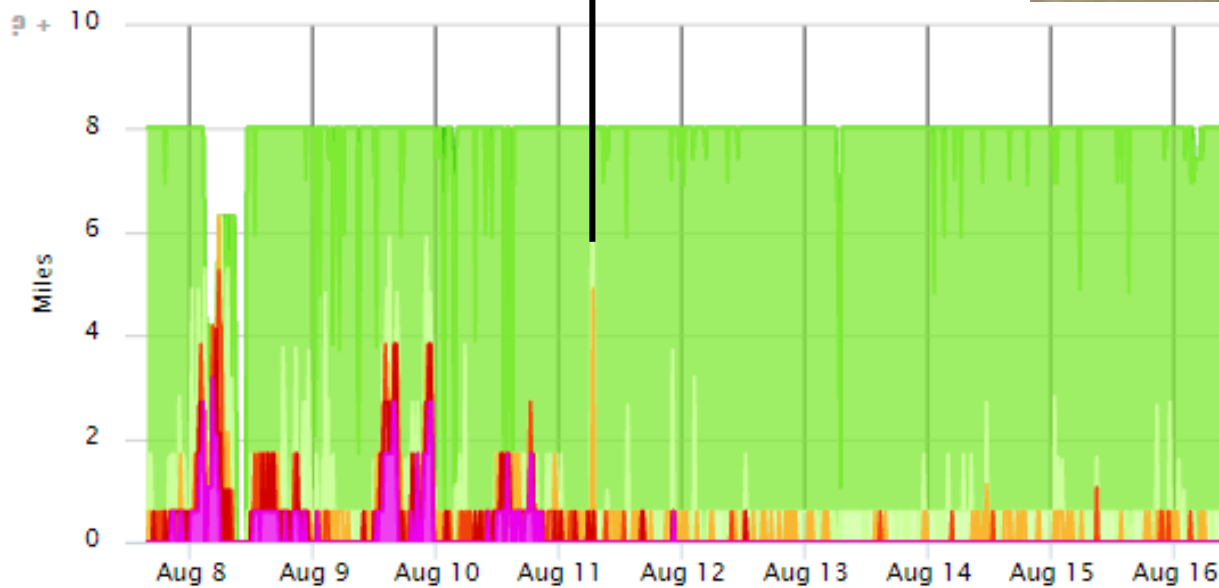


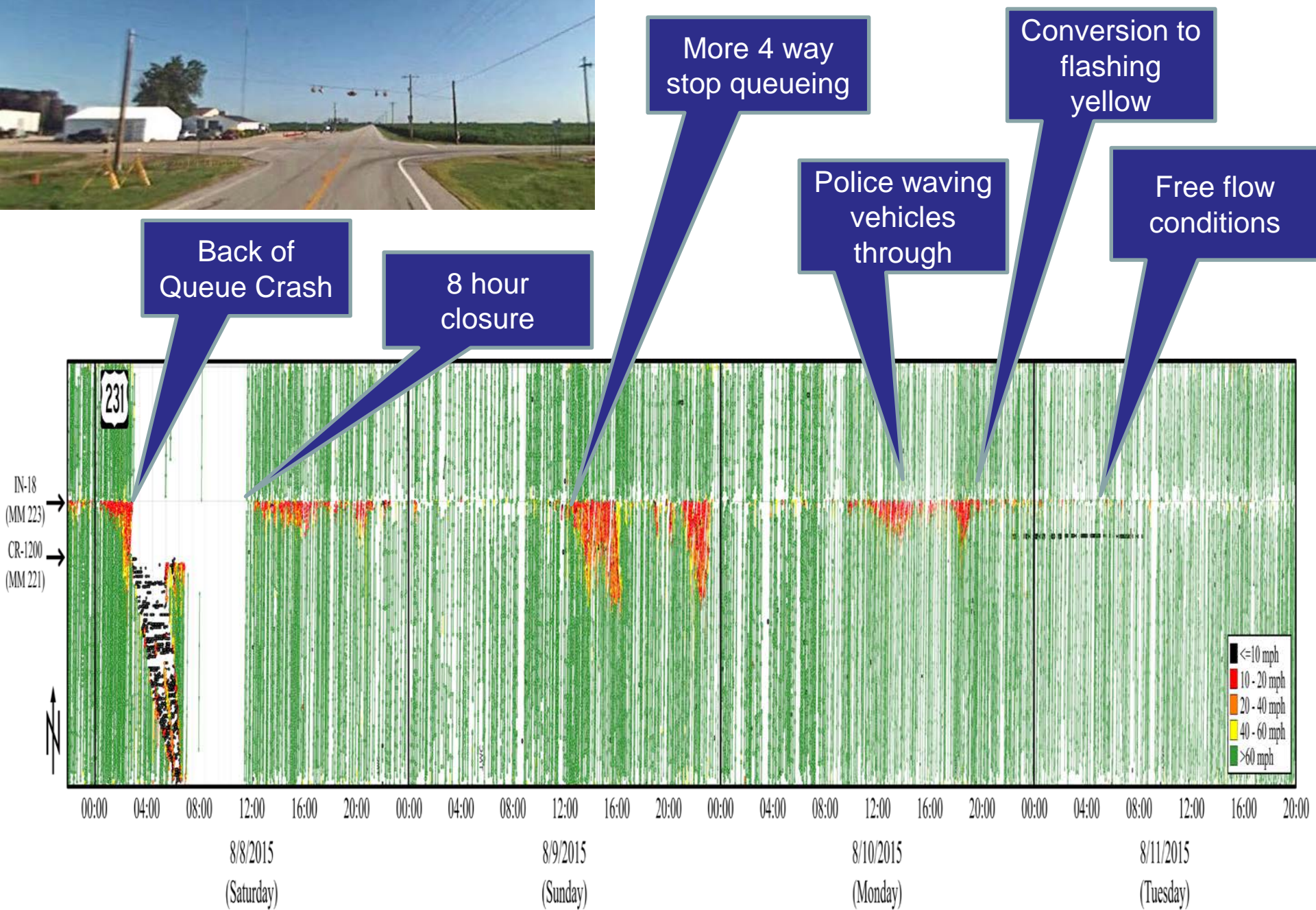
Highcharts.com

Highcharts.com

Impact of change from 4 way stop to 2 way stop (Aug 11)


Change from 4 way to
2 way stop





Ohio Traffic Ticker

Routes


**70**

☒ **Eastbound**

- ☒ State Line to I-75
- ☒ I-75 to I-270
- ☒ I-270 to I-77
- ☒ I-77 to State Line

☒ **Westbound**

- ☒ I-75 to State Line
- ☒ I-270 to I-75
- ☒ I-77 to I-270
- ☒ State Line to I-77

**75**

☒ **Northbound**

- ☒ State Line to I-70
- ☒ I-70 to Sidney
- ☒ Sidney to Findlay
- ☒ Findlay to I-475
- ☒ I-475 to State Line

☒ **Southbound**

- ☒ I-70 to State Line
- ☒ Sidney to I-70
- ☒ Findlay to Sidney
- ☒ I-475 to Findlay
- ☒ State Line to I-475

Show Map

Display

☒ Miles

☐ Percentage

Axis Maximum

☐ Set y-axis maximum

Congested Speed

Speed limit for congestion:

> mph

Date Range

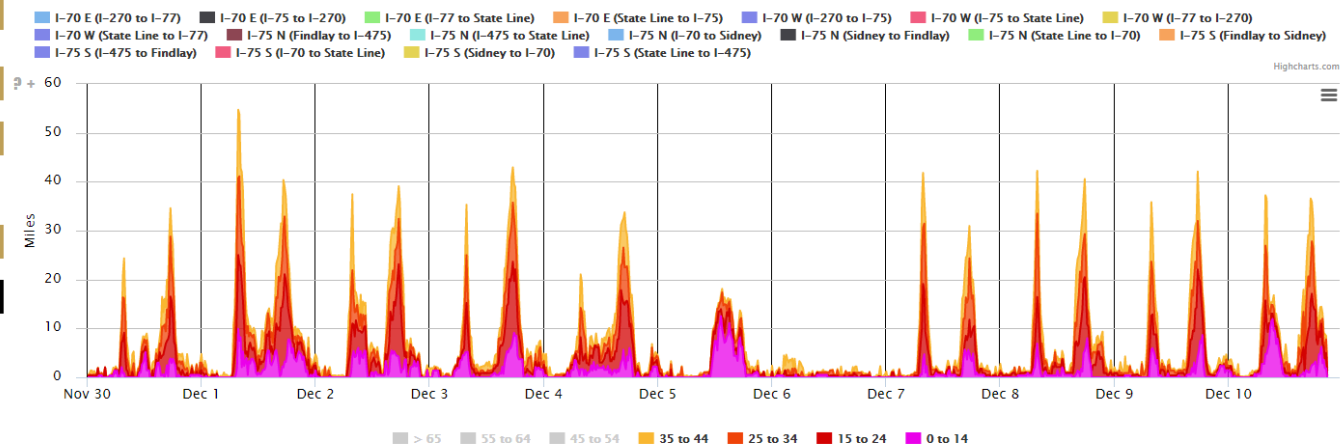
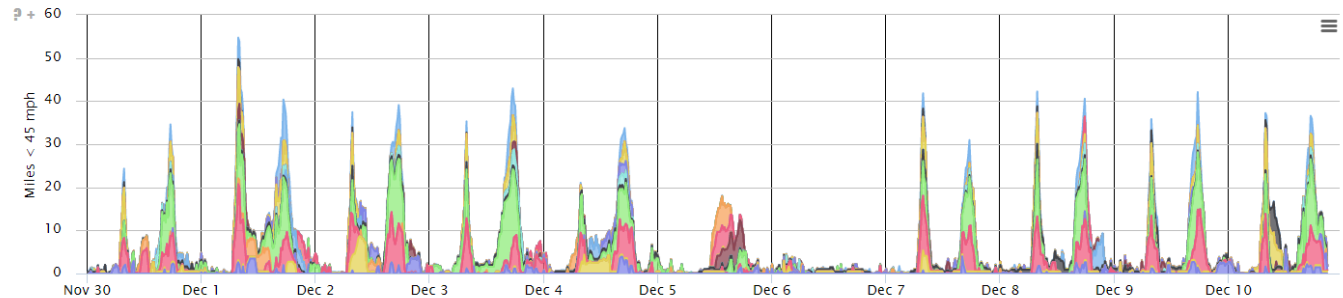
Refresh

15-Minute Summary:
2015-12-11 01:45 UTC



PURDUE INRIX
UNIVERSITY

Ohio Interstate System Dashboards



Highcharts.com

Highcharts.com