

Nebraska Statewide Traffic Data Package

December 20, 2013
Lincoln, NE

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INRIX

Experience & Technical Competence

- Provide travel times
- “Near real time” data for incident detection
- Map of coverage
- List of highway segments for which they provide data
- Historical data storage
- Historical data searching, sorting, analyzing, and reporting capabilities
- Support staff available

THE FUTURE OF MOBILITY IS ABOUT MAKING SMARTER AND BETTER DECISIONS FOR THE EFFICIENT MOVEMENT OF PEOPLE & GOODS



Fleets – 2nd overall data density per mile

Long Haul Trucks



Local Sales, Service & Delivery



Taxis



Airport Shuttles

INRIX Smart Driver Network: Free Apps



Available on the App Store



Download for Android



Download for Windows Phone 7

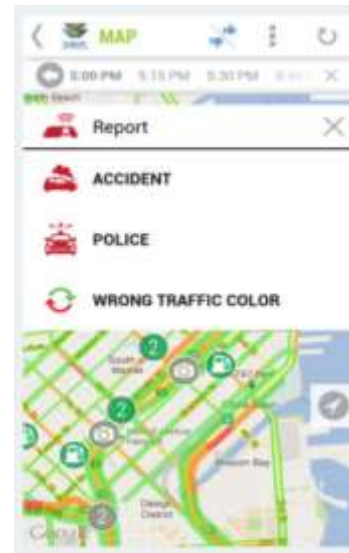
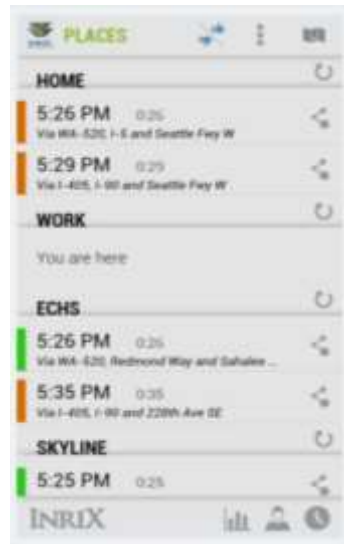


BlackBerry 6.0



INRIX

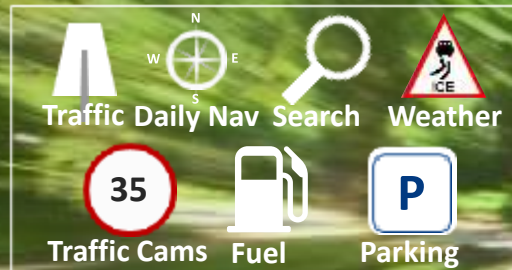
The leading provider of traffic & navigation services



www.inrixtraffic.com



Crowdsource with Connected Devices and Vehicles










Proven Automotive Grade Connected Solutions

INRIX

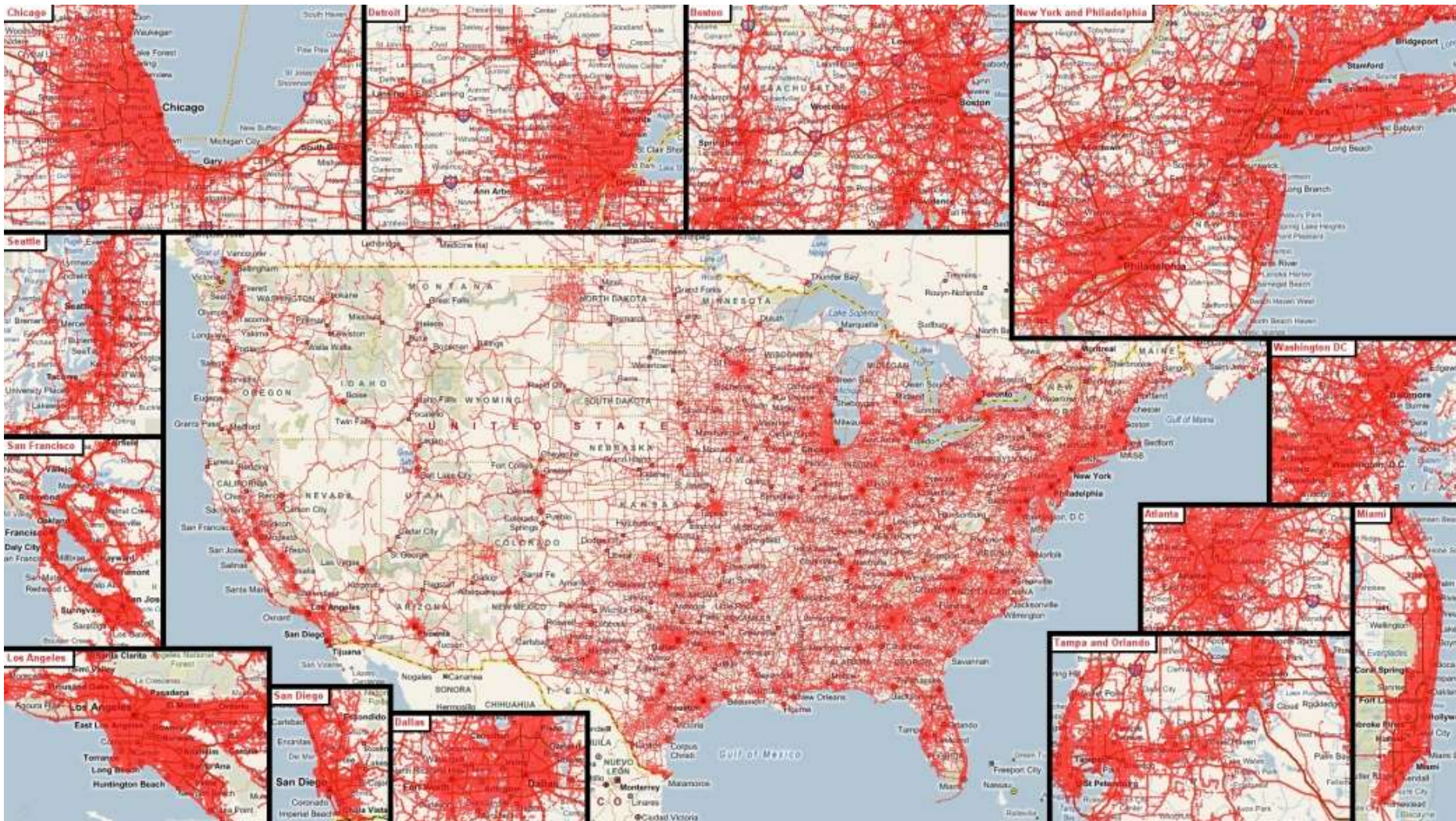


Single Platform
Single Interface
Single Protocol
Globally

Many service providers are struggling to deliver, but INRIX is on its second generation of auto/carrier-grade connected services

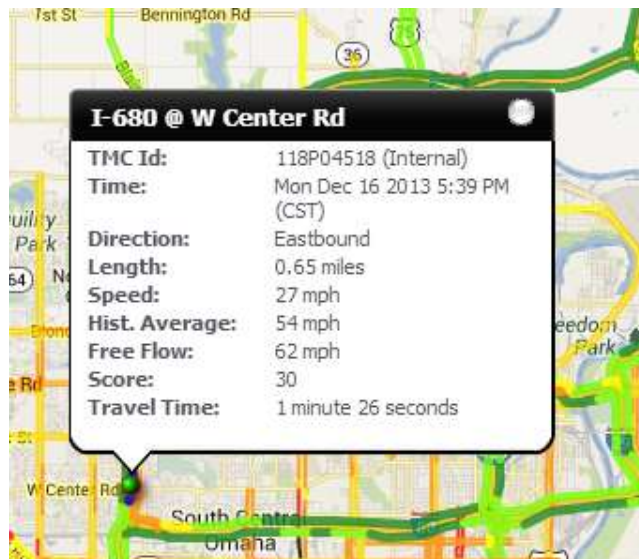
 	4 YEARS HOSTING	<ul style="list-style-type: none"> Off-board routing Traffic services Syncmyride.com personalization SYNC Destinations app Send-to car
	LAUNCHED IN 2011	<ul style="list-style-type: none"> Traffic Services Off-Board routing Connected Driving Services
 Audi	LAUNCHED IN 2011	<ul style="list-style-type: none"> Traffic Services Fuel & other Connected Driver Services
 entune	LAUNCHED IN 2011	<ul style="list-style-type: none"> Traffic Services
	LAUNCHED IN 2011	<ul style="list-style-type: none"> Pioneer App Radio Pioneer Routing and Traffic
	IN PRODUCTION	<ul style="list-style-type: none"> Traffic Services Parking Fuel prices Weather

GPS Probe Points – June 2013

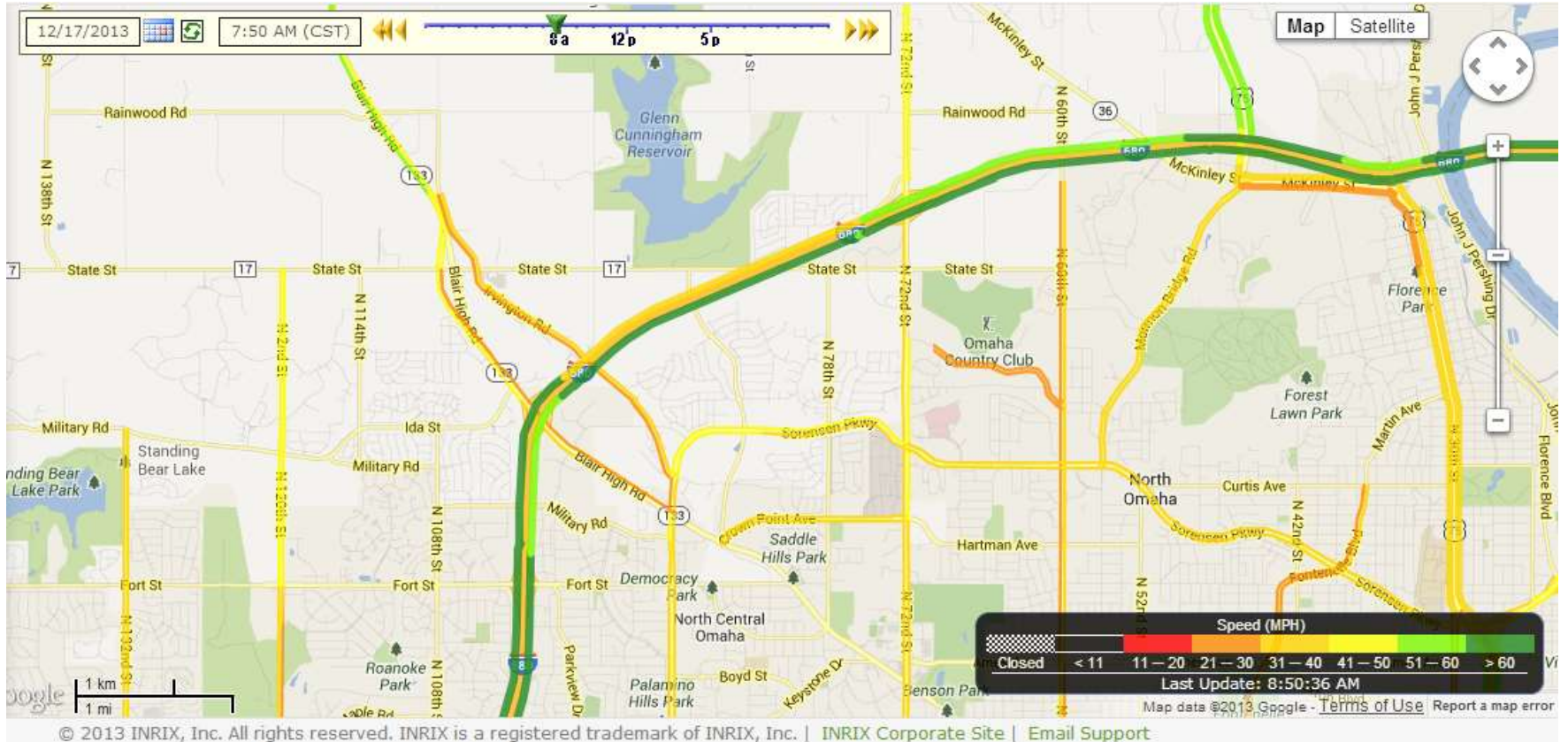


Real-Time & Predictive Traffic Flow

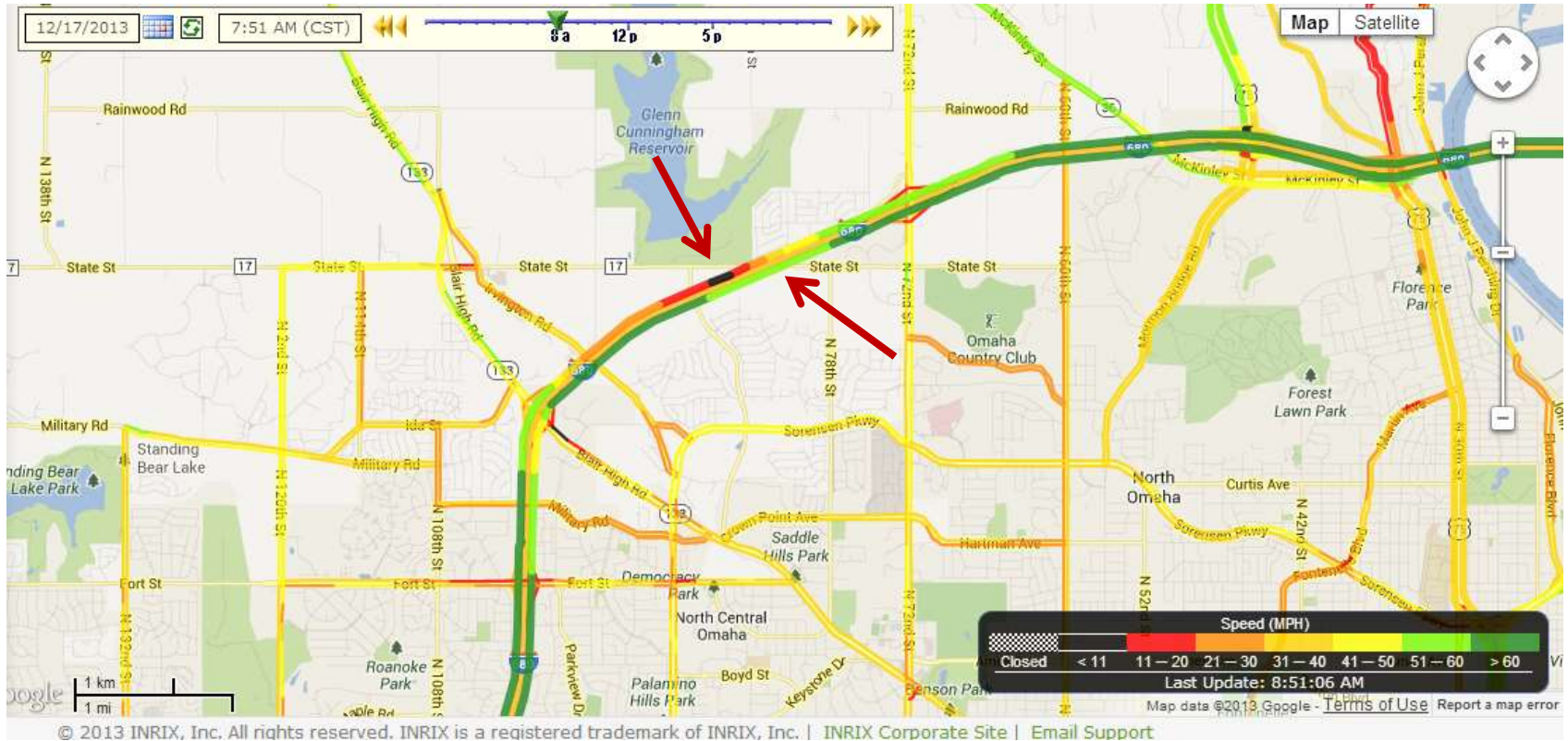
- Road segment by road segment, INRIX provides:
 - Segment information (code, road name, cross streets, direction, length)
 - Speed information (current speed, typical speed, free flow speed)
 - Travel time (in minutes through segment)
 - Congestion level (percentage of free flow)
 - Predictive traffic (speed and congestion forecast in 15 minute increments)



Real-Time & Predictive Traffic Flow – TMC



Real-Time & Predictive Traffic Flow – XD



No Segments Longer Than 1.5 Miles
Most No Longer Than 1 Mile
Report Speeds At Subsegments of 250 Meters

Analytics and Performance Measures

INRIX INRIX Traffic - US

Welcome, pete@inrix.com | My Account | Logout | Contact Us

Home Traffic Score Card **Analytics** Help

- Traffic Flow Type
 - Show Traffic
 - Real-Time (Core)
 - Total Fusion (including predictive)
- Road Segment Type
 - HD Segments
 - TRCA
 - Show Subsegment Traffic
- Roads With Traffic
 - Highways
 - Arterials
- Color Roads with
 - Congestion
 - Speed

Report Closure



INRIXTraffic.US Available
To All Public Sector Agency Staff

Analytics and Performance Measures

The screenshot displays the INRIX Traffic - US dashboard. At the top left is the INRIX logo and the text "INRIX Traffic - US". To the right, there is a user greeting: "Welcome, pete@inrix.com | My Account | Logout | Contact Us". Below this is a navigation menu with links for "Home", "Traffic", "Score Card", "Analytics", and "Help". A dark blue header bar contains the text "INRIX Analytic Tools" followed by a row of icons representing different tools. On the right side of this bar, there is another user greeting: "Welcome, pete@inrix.com | FAQs | Screencasts | Logout".

The main content area features a grid of tool cards:

- INRIX System Monitoring Dashboard**: Explore the relationships between bottlenecks and traffic events in real-time and in the past.
- Massive Raw Data Downloader**: Download raw probe data from our archive for offline analysis.
- Congestion Scan**: Analyze the rise and fall of congested conditions on a stretch of road.
- Trend Map**: Create animated maps of roadway conditions.
- Performance Charts**: Chart performance metrics over time.
- Performance Summaries**: Report on Buffer Time Index, Planning Time Index, and other performance metrics.
- Bottleneck Ranking**: Rank bottlenecks and discover which ones have the greatest impact.
- User Delay Cost Analysis** **Beta** [My reports](#): Put a dollar amount on how much a road's performance impacts its users.
- FAQs**: Frequently asked questions and their answers.
- Tutorials**: Learn how to use each of the tools in the suite.

In the top right corner of the dashboard, there is a red ribbon icon labeled "What's New 12/19/13".

Collaboration with the
University of Maryland

Massive Raw Data Downloader

Massive Raw Data Downloader

Data exports

1. Roads

Road	Region	List of TMC codes	Saved TMC Set
Search in Nebraska...			
Your selected roads			
1-90			
Directions			
<input checked="" type="checkbox"/> Eastbound <input checked="" type="checkbox"/> Westbound			
<input checked="" type="radio"/> Entire road <input type="radio"/> Partial road			
912 miles of roadway selected			
Report a problem with this road...			
OK Cancel			
Save as TMC set			

2. Date Range

12/19/2013 - 12/18/2013

Add another date range

3. Days of week

Sun Mon Tue Wed Thu Fri Sat

4. Time of day

12:00 AM - 11:59 PM

Add another time of day

5. Fields

Speed historic average speed Reference speed

Travel time Confidence score C-value

6. Averaging

Don't average 5 minutes 10 minutes

15 minutes 30 minutes 1 hour

7. Description

Enter a description...



Dashboard

INRIX System Monitoring Dashboard

Data exports Settings Help



Export to CSV Nest bottlenecks and events Show only bottlenecks Show only events

Type	Description	Duration	Length (miles)	State
Bottleneck	US-6 W @ N 90TH ST	36 m	3.03	NE
Bottleneck	I-480 W @ I-80	39 m	2.39	NE

Traffic events loaded, Still loading bottlenecks... There are 3 bottlenecks.

Loading bottlenecks

Congestion Scan

Congestion Scan

Open Report As...

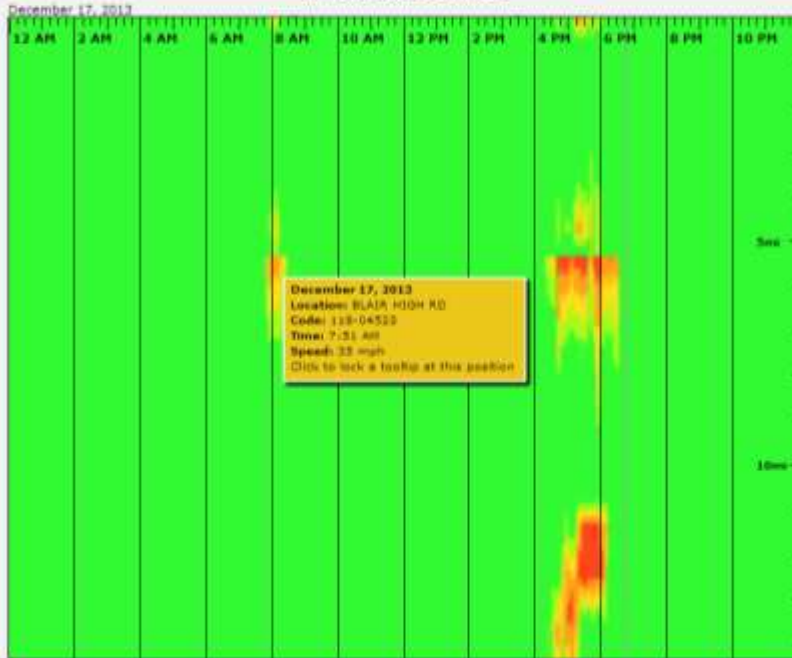
Time Range: 12:00 AM, 6:00 AM, 12:00 PM, 6:00 PM, 12:00 AM

Color Thresholds: 0, 50

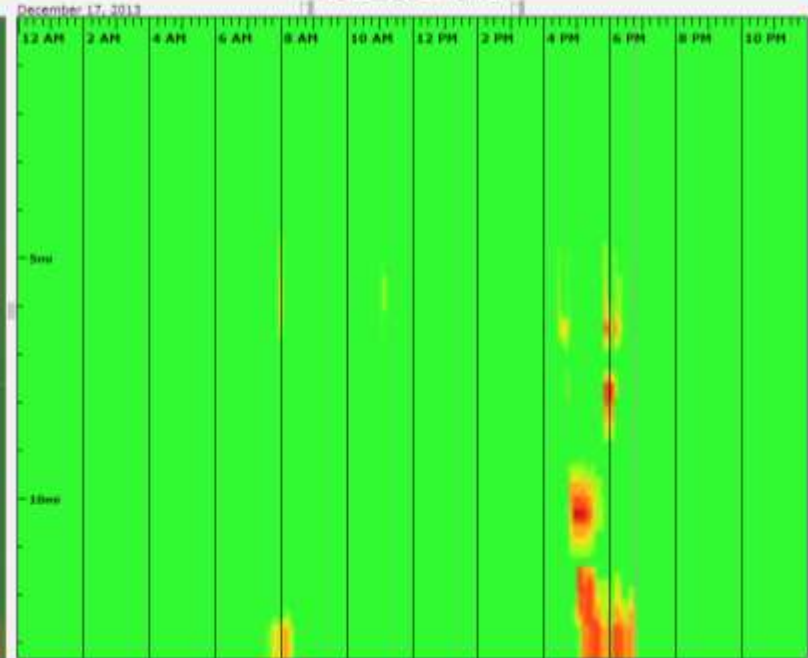
Data Type: Speed

Settings

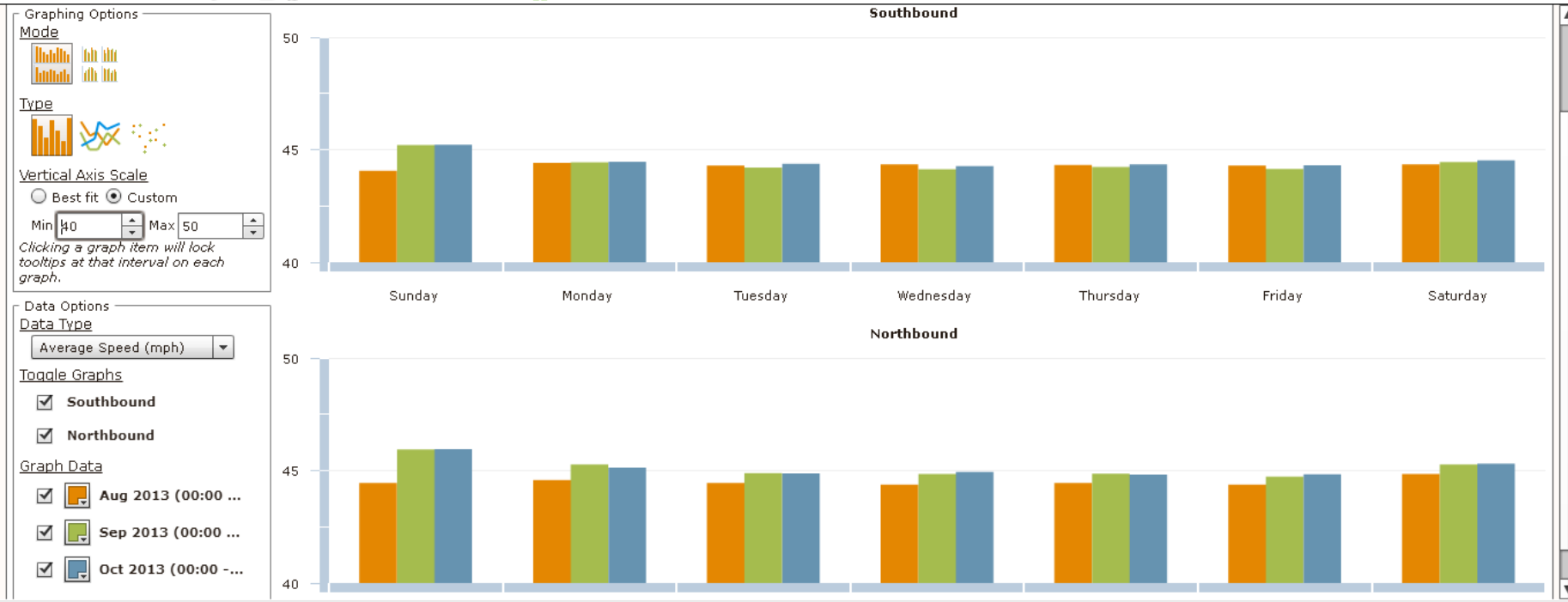
Westbound



Eastbound



Performance Summaries



Before, During and After Studies
1 Minute Archive Back to
January 1, 2011

Performance Summaries (for planners)

Introduction > Search Criteria > Visualization Technique > Final Visualization

Selected Time Bins

00:00-24:00
0:00 6:00 12:00 18:00 24:00
0:00 24:00

07:00-09:00
0:00 6:00 12:00 18:00 24:00
7:00 9:00

11:00-13:00
0:00 6:00 12:00 18:00 24:00
11:00 13:00

16:00-19:00
0:00 6:00 12:00 18:00 24:00
16:00 19:00

+ Add another time range
Submit

Aug 2013 Northbound | Aug 2013 Southbound | Sep 2013 Northbound | Sep 2013 Southbound | Oct 2013 Northbound | Oct 2013 Southbound

Average Speed (mph)				
	00:00-24:00	07:00-09:00	11:00-13:00	16:00-19:00
Monday	45	43	43	42
Tuesday	45	43	43	42
Wednesday	44	43	43	41
Thursday	45	44	43	42
Friday	45	43	43	42
Saturday	45	44	43	44
Sunday	45	43	42	43
Weekends	45	44	43	43
Weekdays	45	43	43	42
All Days	45	43	43	42

Buffer Index				
	00:00-24:00	07:00-09:00	11:00-13:00	16:00-19:00
Monday	0.12	0.17	0.14	0.28
Tuesday	0.13	0.15	0.21	0.29
Wednesday	0.13	0.15	0.17	0.31
Thursday	0.13	0.16	0.23	0.26
Friday	0.13	0.12	0.2	0.27
Saturday	0.07	0.1	0.14	0.08
Sunday	0.06	0.07	0.09	0.08
Weekends	0.07	0.09	0.11	0.08
Weekdays	0.13	0.15	0.19	0.28
All Days	0.11	0.13	0.17	0.22

Travel Time Index				
	00:00-24:00	07:00-09:00	11:00-13:00	16:00-19:00
Monday	1.09	1.12	1.12	1.16
Tuesday	1.09	1.12	1.12	1.17
Wednesday	1.09	1.11	1.13	1.17
Thursday	1.09	1.11	1.14	1.17
Friday	1.09	1.12	1.14	1.17
Saturday	1.08	1.1	1.12	1.1
Sunday	1.09	1.11	1.14	1.11
Weekends	1.08	1.1	1.13	1.1

Travel Time (minutes)				
	00:00-24:00	07:00-09:00	11:00-13:00	16:00-19:00
Monday	28	29	29	30
Tuesday	28	29	29	30
Wednesday	28	29	29	30
Thursday	28	29	30	30
Friday	28	29	30	30
Saturday	28	29	29	28
Sunday	28	29	30	29
Weekends	28	29	29	29

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Buffer, Planning and Travel Time and Their Associated Indices