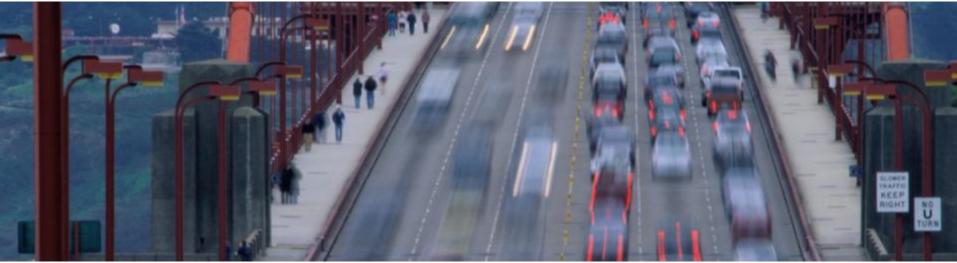
This is Not a Test ... : The I-95 Corridor Coalition's Groundbreaking Vehicle Probe Project and How It Is Helping in Performance Measurement



TRB NATMEC: Improving Data Collection, Analysis and Use Rick Schuman, VP, Public Sector INRIX

June 24, 2010

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Agenda

- What's Happening Today
- What's Possible

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Vehicle Probe Project "Archives"

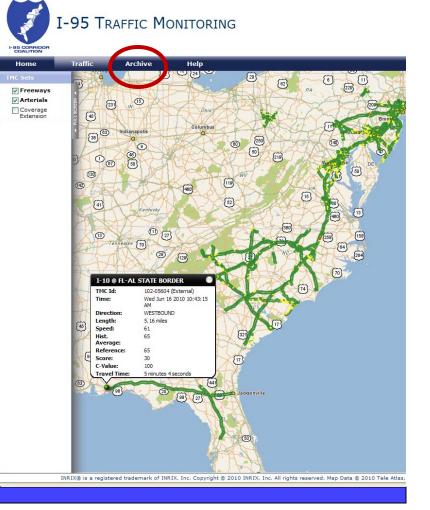
- Contractual Requirement
 - INRIX supported "5 minute" archive
 - All contracted road coverage, since July 2008
- U of Maryland Data Warehouse
 - Storing "1 minute" data since March 2009
 - Stored "2 minute" date Oct 2008 to March 2009
- Agency archives
 - Agencies have option to store real-time data too

5 Minute Archive

- Accessible through "monitoring site"
- Site updates every minute
- Every 5th minute snapshot saved and stored for retrieval
- Current data available in 24-48 hours
- All parameters stored
- 10,000+ Road Segments

4

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5 Minute Archive (2)

| 🖌 🏟 🌈 I-95 Traffic Monitoring - Archiv | ve Page | | | | 🟠 • 🖾 🕤 | 🖶 🔹 🔂 Page 🔹 🍏 | Tools - ** |
|--|----------------------------------|--|--|---------------------------|---|------------------|--|
| I-95 Tr | RAFFIC MONIT | ORING | | | Welcome rick@inrix | com My Account | ALL_I95_ARTERIALS (Use post 4/27/10) ALL_I95_FREEWAYS (Use post 4/27/10) ALLofI95 (Use post 4/27/10) |
| Home Traffic | Archive He | | or Coalition Archive | | | | DE-ALL DE-arterials DE-freeways |
| | | Select Data Set: Time Zone: Start Date: End Date: | DE-freeways EST v 6/10/2010 17:00:00 6/10/2010 17:30:00 | | | | Florida Maryland-ALL Maryland-Arterials Maryland-Freeways NC-Arterials |
| Request Date (UTC) | Request ID | *All archive resu Data Set | lts are in coordinated univer | rsal time (UTC) | Expiry Date (UTC) | Status | NC-Freeways NewJersey-ALL NewJersey-Arterials |
| 6/16/2010 2:49:39 PM | 13032 | DE-freeways (6 6/10/2010 10:3 | /10/2010 10:00:00 PM - 10:00 PM) | | 6/19/2010 2:49:39 РМ | requested | NewJersey-Freeways PA-ALL PA-Arterials PA-Freeways PA511 PA511+FWY South Carolina ALL South Carolina Arterials South Carolina Freeways Virginia-ALL Virginia-Arterials |
| INRIX® is a regist | tered trademark of INRIX, Inc. C | Copyright © 2010 INRIX, Inc | . All rights reserved. Map Data | © 2010 Tele Atlas. INR: | IX Corporate Site Email Support 3.0 | 0.315.853 | Virginia-Freeways |

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I-95 Corridor Coalition Vehicle Probe Project

June 17, 2010

5 Minute Archive (3)

| C 1-95 Trattic Monitoring - Archive Page | | 🛄 👌 🛄 🔛 raye 🦋 ious - | | | | | | | |
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| I-95 TRAFFIC | MONITORING | Welcome rick@inrix.com My Account Logout | | | ~ | | | | |
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| Home Traffic Archive | Неір | | | | | | | | ş |
| | I-95 Corridor Coalition Archive Retrieval | | | | | g | | | ute |
| | Input Archive Retrieval Parameters | | | | | ReferenceSpeed | eed | | Travel Time Minutes C_Value |
| | Select Data Set: ALL_195_ARTERIALS (Use post 4/27/10) V | | | | | ceS | Spi | | e ue |
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| | End Date: | 103+0410 | | | | | 63 | 30 | 4.65 2 |
| | Submit | 103+0410 | | | | 63 | 63 | 30 | 4.97 4 |
| | *All archive results are in coordinated universal time (UTC) | 103+0410 | | | | 63 | 63 | 30 | 3.84 100 |
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| PM | 6/10/2010 10:30:00 PM) PM | 103+0410 | 1 6/10/2010 22:25 | 4965025 | 37 | 63 | 63 | 30 | 5.91 100 |
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| INRIX® is a registered trademark | of INRIX, Inc. Copyright © 2010 INRIX, Inc. All rights reserved. Map Data © 2010 Tele Atlas. INRIX Corporate S | Site Email Support 3.0.315.853 | 3 6/10/2010 22:05 | 4965005 | 6 | 61 | 59 | 30 | 4.24 100 |
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103+04103 6/10/2010 22:25 4965025

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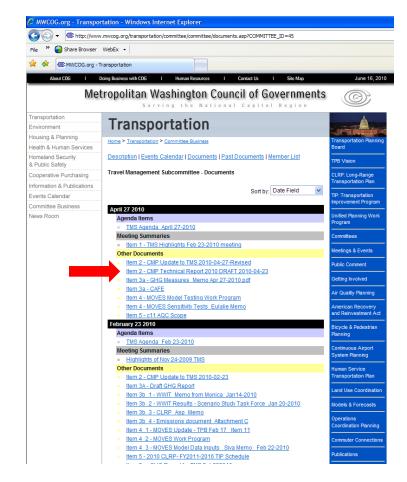
6 61 59 30 4.24 100

14 61 59 30 1.82 100

Some Uses to Date

- Metropolitan Washington COG
 - Congestion Management Process (CMP) support
- North Carolina DOT
 - Performance Dashboard

MWCOG CMP



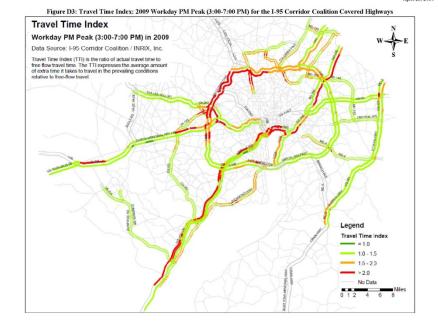
http://www.mwcog.org/transportation/committee/co mmittee/documents.asp?COMMITTEE_ID=45



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2009 Travel Time Index (AM/PM Peaks)



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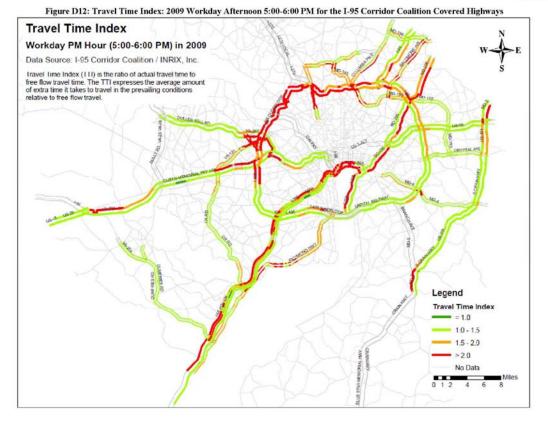
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April 23 2010

2010 Congestion Management Process (CMP) Technical Report (DRAFT)

2009 Travel Time Index (5-6 PM)

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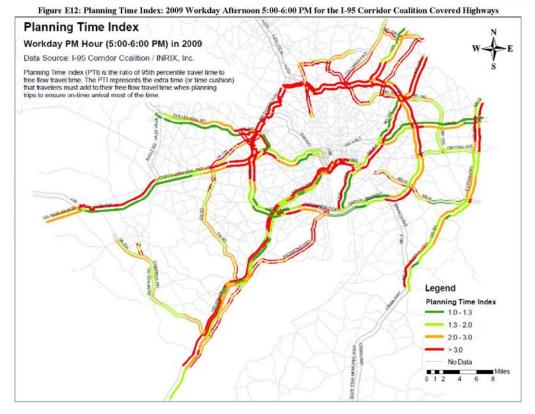


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2009 Planning Time Index (5-6 PM)

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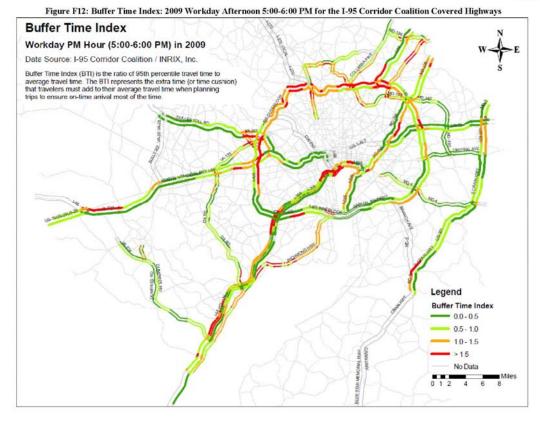


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2009 Buffer Time Index (5-6 PM)

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PMs by Month, Day, Hour, etc.

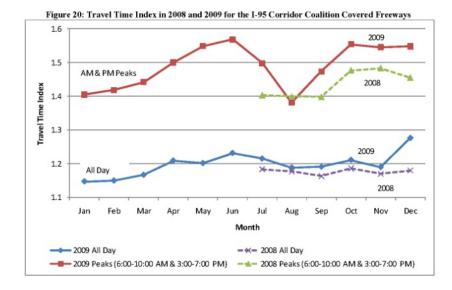


Figure 22 : Comparison of Travel Time Index in December 2008 and 2009 for the 1-95 Corridor Coalition Covered Freeways

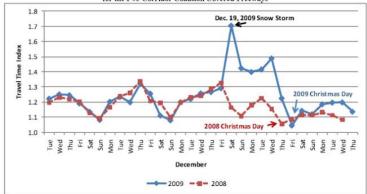
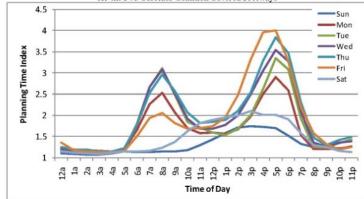


Figure 28: Planning Time Index by Time of Day and Day of Week (2009) for the I-95 Corridor Coalition Covered Freeways



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Bottlenecks, Hours of Congestion

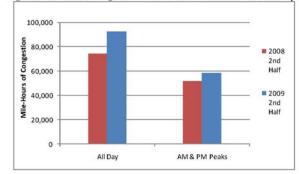
TOP BOTTLENECKS

Based on the number of vehicles per lane per mile, the Spring 2008 Skycomp survey identified the top ten congested locations. Based on travel time index, the ratio of actual travel time over free flow travel time, and the number of congested hours, the I-95 Corridor Coalition/INRIX data also produced a list of the top ten bottlenecks. Table 1 is the combination of the two lists. The results of the Skycomp and I-95 Corridor Coalition/INRIX efforts differ as would be expected, due to differing methodologies. The first three locations in the table are on both top-ten lists. The similarities and differences between the two efforts merit further study in the CMP.

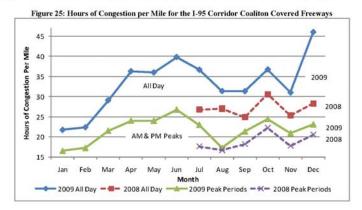
Table 1 Mart Conserved I continue

| | | Rank | | | |
|-------------------|-------------------------------|-------------------------------|--------------------|--|--|
| Road/Direction | Segment/Interchange | Skycomp Spring 2008 Suvery | INRIX 2009 Data | | |
| I-495 Inner Loop | MD-187 MD-355 | 5E | 2 | | |
| I-495 Outer Loop | MD-650 US-29 | 4 | 10 | | |
| I-66 EB | VA-267 Westmoreland St | 5D | 9 | | |
| I-395 SB | 6TH ST 12TH ST | 1 | 17 | | |
| I-395 NB | US-1 12th St | 5B | 13 | | |
| I-495 Inner Loop | VA-193 GW Pkwy | 5A | 21 | | |
| I-95 NB | VA-644 I-495 | 5F | 23 | | |
| 11th St Bridge WB | I-295 Southeast Fwy | 2 | N/A | | |
| I-395 NB | 11th StPennsylvania Ave | 3 | N/A | | |
| I-66 HOV EB | VA-243 I-495 | 5C | N/A | | |
| I-95 HOV SB | VA-234 I-95 Merge | N/A | 1 | | |
| I-95 SB | VA-234/Exit 152 | N/A | 3 | | |
| I-95 NB | VA-3000 VA-642 | N/A | 4 | | |
| I-66 WB | VA-234/Exit 44 | N/A | 5 | | |
| MD-295 NB | I-495 Powder Mill Rd | N/A | 6 | | |
| I-95 SB | I-495 VA-7100/Exit 166 | N/A | 7 | | |
| I-95 SB | US-1/Exit 161 VA-123/Exit 160 | N/A | 8 | | |

Figure 24: Mile-Hours of Congestion for the I-95 Corridor Coaliton Covered Freeways



Dividing the number of mile-hours of congestion by the total length of the covered freeway segments, we obtain hours of congestion per mile. Figure 25 shows the hours of congestion per mile in each month in the 18 months from July 2008 to December 2009. The variation pattern is similar to what was found in Figure 20 (monthly travel time index) but with "All Day" had higher values since hours of congestion is an "absolute" measure of the extent of congestion.



I-95 Corridor Coalition Vehicle Probe Project

MWCOG View of VPP Data Value

- From Draft Executive Summary, "Recommendations for CMP Process"
 - "Continue and enhance the use of continuous, probe-based congestion *monitoring data*. As a complementary data source to the Skycomp aerial survey, the I-95 Corridor Coalition – INRIX – University of Maryland partnership provides the CMP an innovative and profound data source for both congestion and reliability analyses."

NCDOT Performance Dashboard



https://apps.dot.state.nc.us/dot/dashboard/

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June 17, 2010

VPP Support of NCDOT Dashboard

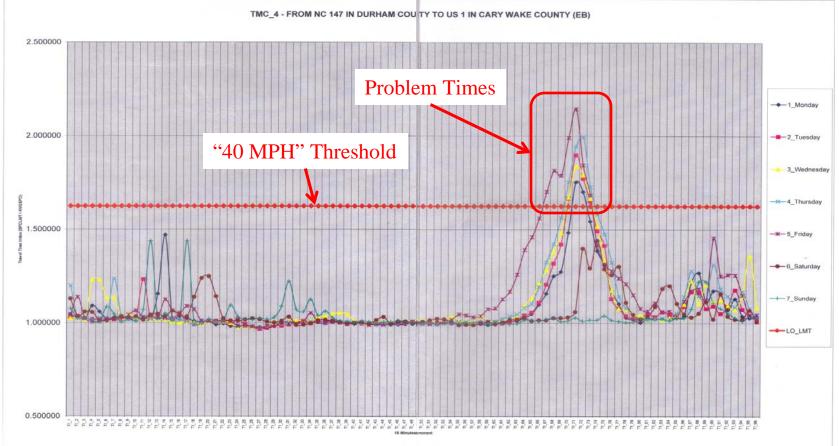
- Two areas:
 - Recurring congestion locations
 - Slowdown detection/duration
 - Where/when/how long below 40 MPH



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Example I-40 Road Segment (Average TTI by Time of Day)



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What is Possible: Corridor Travel Times/Reliability

- State-of-the-Art:
 - WashDOT's Pugest Sound analysis (right)
- Requires
 - Complete corridor coverage
 - Highly reliable data
- VPP data now provides possible input data in many states/regions
- MdSHA Travel Times on DMS illustrates potential
 - DMS corridor → commute corridor

| 95% Reliable Travel Time Morning and Afternoon Commutes Central Paget Sound Area, 2005 Iravel Time in Minutes | by Wor | k Location | | | Additional Travel Time required to ensure on-time arrival 95% of the time | Additional Travel Time due to Peak Travel Condition | Travel Time at Po Speeds (no conge Travel Time | iation) |
|--|-------------------------|-------------------------------|------------------|-------------------------------|---|--|--|------------|
| Travel Time at Posted Speeds with no congestion | on (in minut | testi | | | of the time | - | | |
| Additional Travel Time due to Peak Travel Condi | tion (in min | utes) | | | - | | Average Peak T | revel 1 me |
| Additional Travel Time required to ensure on-tim | e arrival 95 | % of the time (in minutes) | | | | | 96% Reliable T | navel Time |
| NI AM Commute Average - Home to 5 60 75 70 65 60 55 50 45 40 35 30 25 20 1 | | 1 | | | All PM Cor | | ge - Work to | |
| 12 13 | 15 | Average of all AM commutes | | Average of all PM commutes | 15 1 | 4 14 | | |
| | 881 | | | | 13 1 2 3 | | | |
| | | | Work Location | 3 | | | | |
| 20 24 | 24 | Everett - Seattle | | Seattle - Everett | 24 | 22 | 22 | |
| 15 22 | 22 | Federal Way - Seattle | S E | Seattle - Federal Way | 22 | 15 | 8 | |
| 12 11 | 15 | Issaquah - Seatte | A | Seattle - Issaquah | 16 8 | 12 | | |
| 9 9 | 16 | Redmond - Seattle | T T | Seatte - Redmond | 16 | 15 13 | | |
| 13 12 | 13 | SeaTac - Seattle | LE | Seatte - SeaTac | 13 6 | 7 | | |
| 9 | 5 11 | Bellevue - Seattle via I-90 | 2022 | Seattle - Bellevue via I-90 | 11 7 | 13 | | |
| 9 9 | 11 | Bellevue - Seattle via SRI520 | | Seattle - Bellevue via SR520 | 11 11 | 12 | | |
| | | | | | | | | |
| 28 29 | 23 | Everett - Bellevue (New 2005) | | Bellevue - Everett (New 2005) | 23 | 20 | 17 | |
| 24 26 | 16 | Bothell - Bellevue | BE | Bellevue - Bothell | 16 | 15 13 | | |
| 16 26 | 13 | Tulovilla - Sellevue | L | Bellevue - Tukwilla | 13 | 19 12 | | |
| 9 | 6 11 | Seattle - Believue via I-90 | E | Bellevue - Seattle via I-90 | 11 15 | 15 | | |
| 12 13 | 11 | Seattle - Bellevue via SR520 | V U | Bellevue - Seattle via SR520 | 11 18 | 9 | | |
| 7 1 | 9 | Issaguah - Bellevue | E | Bellevue - Issaquah | 9 9 | 5 | | |
| | 28 | Redmond - Bellevue | | Belevue - Redmond | 8 7 8 | | | |
| | 81 | | | | | | | |
| Seattle to Everett morning comm displayed as it does not experience co | ute is not ngestion. | | 0 | Everett - Seattle | 24 | 16 | 16 | |
| 5 5 | 16 | Seattle - Issaquah | T H | Issaquah - Seatte | 15 1 | 1 19 | | |
| 11 14 | 16 | Seattle - Redmond | Е | Redmond - Seattle | 16 | 22 | 24 | |
| THE FREE FREE FREE FREE FREE FREE FREE FR | 7 10 | Autom Deston | R | Danker Advant | 10 8 | dia internet | | |

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MD CHART DMS Software

| Comm Log Other (no info) | Text | | Add | I/S 0/S | | | | Sear Sea | and the second second | Adv. |
|-----------------------------|--------------------|--------------------|--------------------------------|-------------------------------|----------------------------|---------------------|--|----------------|-----------------------|--------------|
| | Recent Events | Back Forw | | er Rpt Communit Routes (| | 1214 M. 1124 (1920) | <u>Map</u> <u>Traffic Events</u> <u>Help</u> | | | |
| <u>Name</u> ∆ | Length | Trav Time | Trend Spee | ed <u>Toll Rate</u> | Used By | Route / Dir | County | 1 | | |
| | | Any 🚩 | Any 🗙Any | Any 💌 | | Any 💙Any 💙 | Any | | | |
| DMS 3320 to I-495 | 8.8 mi | 11 min at 14:57 | at Travel Tin Eff. Time | | DMS DMS 3320 RadioS NTCIP* | I-95 S | Prince George's County, MD | <u>details</u> | <u>edit</u> | <u>remov</u> |
| DMS 4404 to I-395 | 5.4 mi | | Fla 14:57 at 14:55 | 11:23 10:49 | DM3 4404 | I-95 N | Baltimore County, MD | <u>details</u> | <u>edit</u> | remov |
| DMS 7701 to I-695 | 11.2 mi | | 14:52 Fla 14:50 at 14:48 | 10:21 10:34 11:01 | DMS 7701 | I-95 N | Baltimore County, MD Howard County, MD | <u>details</u> | <u>edit</u> | remov |
| DMS 7702 to I-695 | 6.1 mi | 6 min at 14:57 | Fla at 14:43 14:41 | 10:49 10:59 10:42 | DMS 7702 | I-95 N | Baltimore County, MD Howard County, MD | <u>details</u> | <u>edit</u> | remov |
| DMS 7703 to I-495 | 13.8 mi | | Up 14:39 at 14:36 | 9:16 9:00 | DMS 7703 | I-95 S | Howard County, MD Prince George's County, MD | <u>details</u> | <u>edit</u> | remov |
| DMS 7704 to I-495 | 17.7 mi | | 14:34 Up 14:32 at | 9:00 9:00 | DMS 7704 | I-95 S | Howard County, MD Prince George's County, MD | <u>details</u> | <u>edit</u> | remov |
| ► I-95 | SOUTH PRI Sign# | | D 198 | | | | IME TO II AHEAD 8 MIN | | | |

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CHART SW Available from MdSHA

| | RT - Microsoft Internet Explorer | | |
|--------------|---|--|-----------------|
| | Log Other (no info) | Add I/S 0/S | Search Ad |
| | | Refresh Center Rot Communications Log. Instant Messaging Home Page Mar. Traffic Events Help vel Route Details: DMS 3320 to I-495 | |
| | Status | | |
| | Travel Time: 11 mins (at 14:59) details Trend: Up (at 14:59) | Actions | |
| | Speed: 53 mph (at 14:59) | Remove | |
| | Toll Rate: N/A | Back to Travel Route List | |
| | Used By: DMS DMS | | |
| | 3320 RadioS NTCIP* | | |
| | Link Status | | |
| | Ext Sys Ext ID Route Link Name | Time Travel Time Trnd Speed m:ss (qual) | |
| | INRIX 110-04263 I-95 S HOWARD/PRINCE GEORGE'S C | CO LINE (LAUREL) (WEST) 14:59 0:32 (30) Flat 64 mph | |
| | INRIX 110-04262 I-95 S HWY 198/EXIT 33 | 14:59 1:03 (30) Flat 61 mph | |
| | INRIX 110N04262 I-95 S HWY 198/EXIT 33 | 14:59 1:41 (30) Up 44 mph | |
| | INRIX <u>110-04261</u> I-95 S HWY 212/EXIT 29 | 14:59 4:33 (30) Up 40 mph | |
| | INRIX <u>110N04261</u> I-95 S HWY 212/EXIT 29 INRIX <u>110-04260</u> I-95 S I 495/EXIT 27-25 | 14:59 0:54 (30) Flat 59 mph 14:59 0:47 (30) Flat 61 mph | |
| | INRIX 110004260 I-95 S I 495/EXIT 27-25 | 14:59 1:35 (30) Flat 58 mph | |
| | | | |
| | Link Travel Time History Summary (click here to view a | actual) | |
| | Ext Sys Ext ID Route Link Name | Now 14:55 14:50 14:45 14:40 14:35 14:30 14:25 14:20 1 | 4:15 14:10 14:0 |
| | | CO LINE (LAUREL) (WEST) 0:32 (30) 0:30 (30) 0:31 (30) 0:31 (30) 0:30 (30) 0:31 (30) | |
| | INRIX <u>110-04262</u> I-95 5 HWY 198/EXIT 33 INRIX <u>110N04262</u> I-95 5 HWY 198/EXIT 33 | 1:03 (30) 1:02 (30) 1:04 (30) 1:00 (30) 0:57 (30) 0:58 (30) 1:41 (30) 1:38 (30) 1:30 (30) 1:23 (30) 1:32 (30) 1:09 (30) | |
| | INRIX <u>110-04261</u> I-95 S HWY 198/EXIT 33 INRIX <u>110-04261</u> I-95 S HWY 212/EXIT 29 | 4:33 (30) 4:41 (30) 4:42 (30) 5:16 (30) 3:25 (30) 3:27 (30) | |
| | INRIX 11004261 I-95 S HWY 212/EXIT 29 | 0:54 (30) 0:54 (30) 0:52 (30) 0:54 (30) 0:53 (30) 0:50 (30) | |
| Route Travel | INRIX 110-04260 I-95 S I 495/EXIT 27-25 | 0:47 (30) 0:51 (30) 0:49 (30) 0:46 (30) 0:48 (30) 0:47 (30) | |
| | INRIX 110N04260 I-95 S I 495/EXIT 27-25 | 1:35 (30) 1:34 (30) 1:28 (30) 1:31 (30) 1:32 (30) 1:32 (30) | |
| Times | Route History: (1 link is only partially included) | 10:43 10:49 10:34 10:59 9:16 9:00 details details details details details details (Min) details details details details (Min) | |
| omputed and | Link Configuration | | |
| - | Ext Sys Ext ID Route Name | Length County Dist From Prior | |
| Archived | INRIX 110-04263 I-95 S HOWARD/PRINCE GEORGE'S C | CO LINE (LAUREL) (WEST) 1.1 mi Prince George's County, MD N/A settings remove move: | down |
| Alchiveu | INRIX 110-04262 I-95 S HWY 198/EXIT 33 | 1.1 mi Prince George's County, MD 0.0 mi settings remove move: up | down |
| | INRIX 110N04262 I-95 S HWY 198/EXIT 33 | 1.2 mi Prince George's County, MD 0.0 mi <u>settings remove</u> move: <u>up</u> | down |
| | INRIX 110-04261 I-95 S HWY 212/EXIT 29 | 2.9 mi Prince George's County, MD 0.0 mi <u>settings remove</u> move: <u>up</u> | down |
| | INRIX 110N04261 I-95 S HWY 212/EXIT 29 | 0.8 mi Prince George's County, MD 0.0 mi <u>settings remove</u> move: up | down |
| | INRIX <u>110-04260</u> I-95 S I 495/EXIT 27-25 | 0.9 mi Prince George's County, MD 0.0 mi <u>settings remove</u> move: <u>up</u> | down |
| | INRIX 110N04260 I-95 S I 495/EXIT 27-25 | 1.5 mi Prince George's County, MD 0.0 mi <u>settinas remove</u> move: up | |

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Closing Thoughts/Observations

- None of us know all possible applications of the data
 - Coalition working hard to share information (project and applications) broadly amongst member agencies
- When coverage is region wide/statewide, value really goes up
 - Can transition from pilot/research on small part of network to primary part of PM processes
- Traffic Flow PM is no longer limited to sensored roadways





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