Item #3



Analysis of Thanksgiving-Period Travel Using Vehicle Probe Data

Wenjing Pu

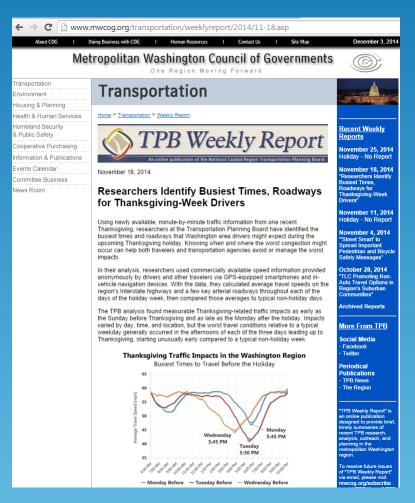
MOITS Technical Subcommittee December 9, 2014







Main Product: TPB Weekly Report released on November 18, 2014



"TPB Weekly Report" is an online publication designed to provide brief, timely summaries of recent TPB research, analysis, outreach, and planning in the metropolitan Washington region.

First issue: Jan. 17, 2012 – almost 3 years so far



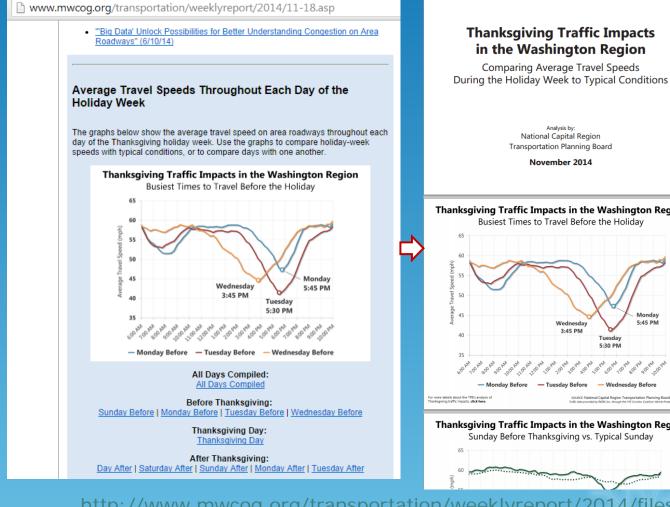




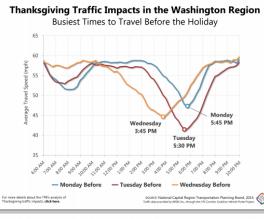
http://www.mwcog.org/transportation/weeklyreport/2014/11-18.asp



Resource Page (part 1): Line Charts – Regional Average Speed







Thanksgiving Traffic Impacts in the Washington Region Sunday Before Thanksgiving vs. Typical Sunday

3

http://www.mwcog.org/transportation/weeklyreport/2014/files/ 18/Thanksgiving-Traffic Compiled.pdf



Resource Page (part 2): Animated Trend Maps – 15-minute speeds by TMC segments

www.mwcog.org/transportation/weeklyreport/2014/11-18.asp Sunday Before | Monday Before | Tuesday Before | Wednesday Before Thanksgiving Day: Thanksgiving Day After Thanksgiving: Day After | Saturday After | Sunday After | Monday After | Tuesday After Interactive Maps of Thanksgiving Traffic Impacts Using the interactive maps below, explore speed information for several key roadways in the region throughout each day of the Thanksgiving holiday week. In fullscreen mode, use the control panel below the map to start, stop, and control map animation. Wednesday before Thanksgiving Speed (mph) 3:00 PM - November 21, 2012 3:00 PM - October 2012 (every Wed) Frederick 11:45 PM at 15 minute intervals 3:00 PM Before Thanksgiving: Sunday Before | Monday Before | Tuesday Before | Wednesday Before

> Thanksgiving Day: Thanksgiving Day

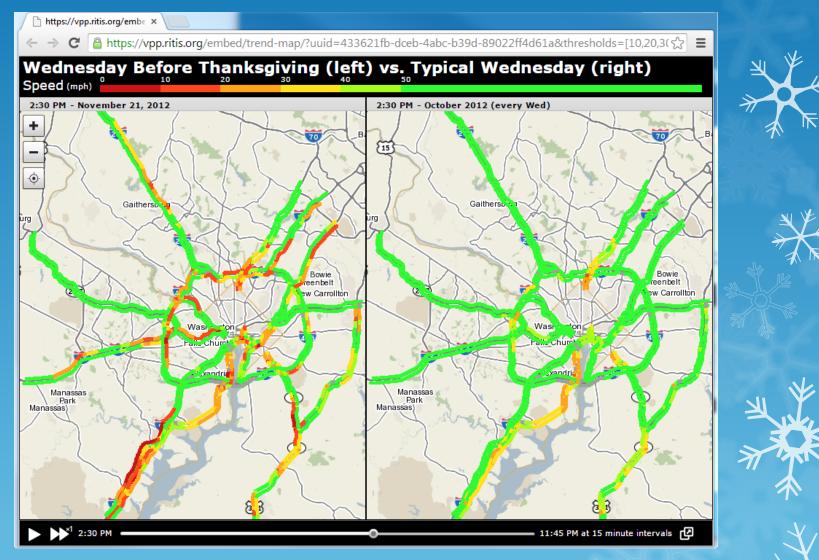
After Thanksgiving: Day After | Saturday After | Sunday After | Monday After | Tuesday After



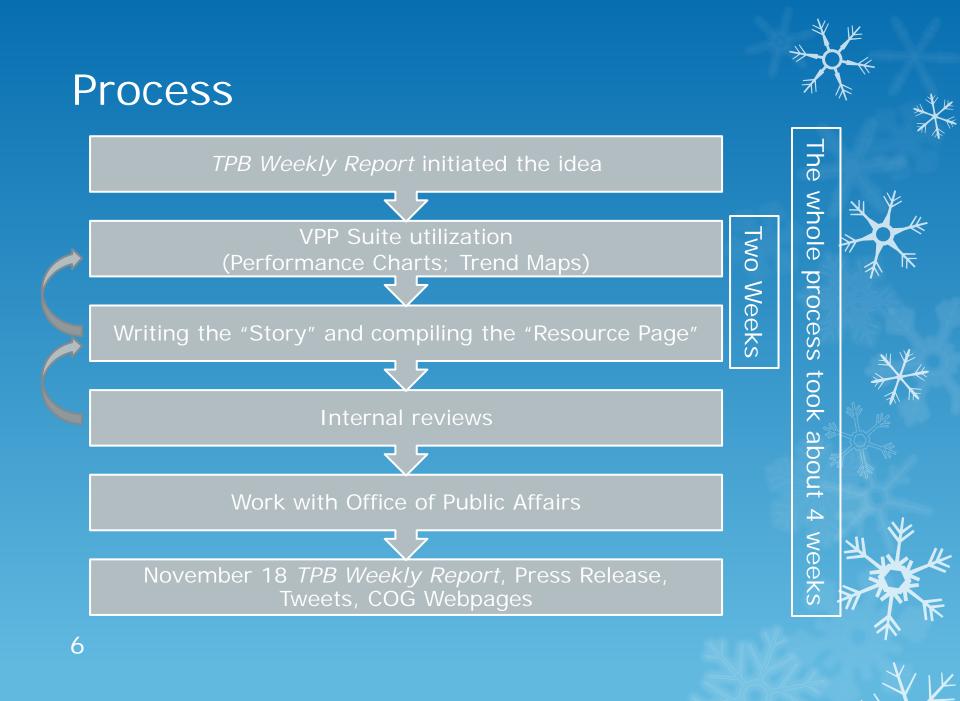




Full Screen Animated Maps for Each Day



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Working with Office of Public Affairs (OPA)

- Press release
- Tweets
- COG webpages
 - Main page (www.mwcog.org)
 - Transportation page (www.mwcog.org/transportation)





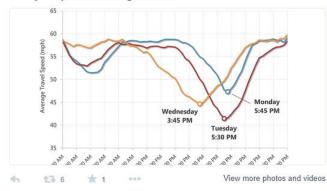




Tweets

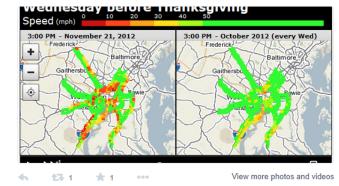
TPB Nov. 18

Driving this #Thanksgiving? We've got new data to help you plan your travel. bit.ly/1qlP68i #bigdata



TPB Nov. 18

Check out our new interactive maps of past #Thanksgiving traffic to plan your upcoming travel: bit.ly/1qlP68i

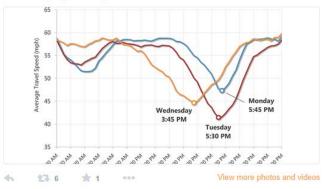


MWCOG Nov. 18



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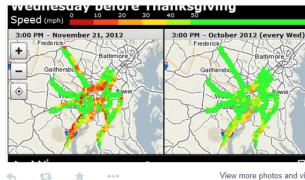
- TPB @NatCapRegTPB · Nov 18
 - Driving this #Thanksgiving? We've got new data to help you plan your travel. bit.ly/1qlP68i #bigdata



TPB Nov. 24

TPB @NatCapRegTPB · Nov 24

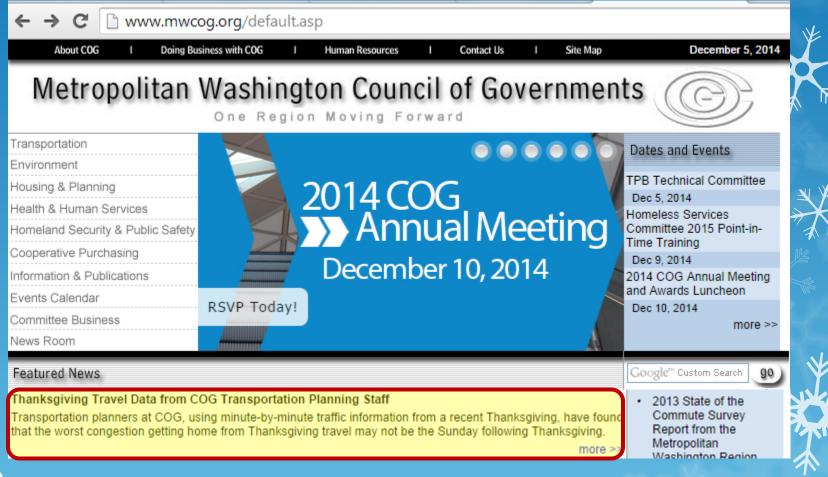
ICYMI: Our new traffic data & interactive maps can help you plan your #Thanksgiving driving: bit.ly/1glP68i



View more photos and videos

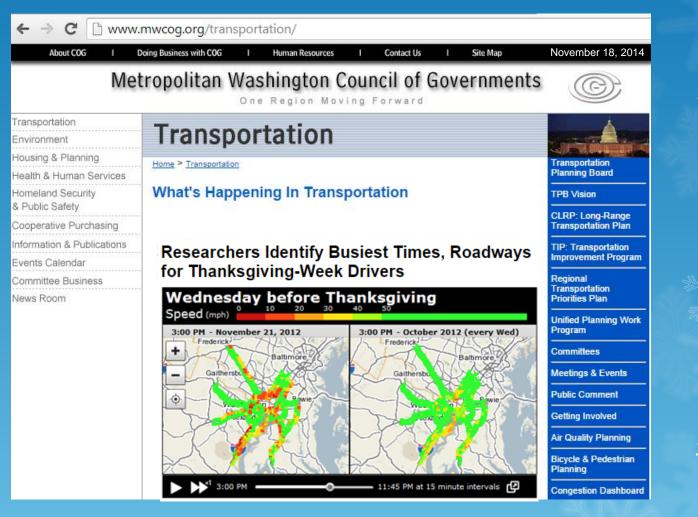


COG Main Page





COG – Transportation Page



XXX

WUSA-9, Nov. 18



Washington City Paper, Nov. 18



HOUSINGCOMPLEX

The Best and Worst Times to Travel for Thanksgiving

Posted by Aaron Wiener on Nov. 18, 2014 at 3:09 pm



Washington Post, Nov. 20



tion

projects that more than 1 mil ۱ Thanksgiving travel from هhington region

Advertisement

Which of the below a that apply)

Is open and hone

Is increasing US Is committed to c



m: An earlier version of this story omitted the role of the 'ransportation Planning Board staff in a study of 'ing travel trends. The planning board staff analyzed the uds, using information supplied by Inrix, a traffic data

EXPRESS, Nov. 21





llysis is based on traffic data provided by INRIX, the company that sup

TV Interview by CBS Baltimore, Nov. 24

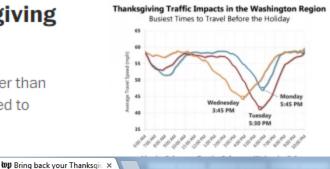
COG @RegionForward · Nov 24

Thanksgiving travel speed data across gions: Planner Ben Hampton speaks to cbsbaltimore bit.ly/1HDn5ya



Bring back your Thanksgiving getaway stories

Tuesday evening traffic was much heavier than Wedneday's, indicating travelers adjusted to weather.





← → C 🗋 www.washingtonpost.com/blogs/dr-gridlock/wp/2014/12/01/bring-back-your-thanksgiving-getaway-sto **Dr. Gridlock** Robert Thomson | Local | December 1,2014 Bring back your Thanksgiving getaway stories

Washington Post Dec. 1



By Robert Thomson December 1 🔽 🈏 Follow @RT_Thomson

Good getaway planning was evident last week. Wednesday's snow and rain, combined with the traditional holiday volume, could have created Turkeygeddon of traffic that we would have been talking about for years.

It didn't. The traffic maps and cameras showed that the traditional getaway routes from the D.C. area were most crowded on Tuesday afternoon and evening. That certainly wasn't a pleasant experience — Tuesday morning would have been better — but it almost certainly reduced the problems we might have seen on Wednesday.

Thanksgiving Day traffic was generally light, but there was enough traffic to make me suspect that some people postponed a Wednesday evening departure for the sake of traveling in better weather on the

One Question Site Surve

Is increasing US energy supplies Is open and honest

Which of the below attributes apply to BP?

Α

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that apply) SELECT UP TO 5 ANSWERS

Is contributing significantly to the US eco Is committed to creating jobs across Ame

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- Is helping to improve energy security in the security is security in the security in the security in the security is security in the security is security in the security in the security in the security is security in the security is security in the security in the security in the security is security in the security is security in the security in the security in the security is security in the security is security in the security in the security is security in the security is security in the security in the security is security in the security in the security in the security is security in the security is security in the security is security in the security in the security in the security is security in the security is security in the security in the security is security in the security in the security in the security is security in the security in the security in the security is security in the security in the security in the security is security in the security is security in the security in the security is security in the security is security in the security in the security is security in the security is security in the security in the security is security is security is security is security in the security is security i
- None of the above

VOTE TO SEE RESULTS

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Results and Outlook

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- The most frequently picked up COG/TPB news by the media in recent days
- The animated maps proved to be particularly popular
- We should do more of this kind work in the future, or make this a annual product before Thanksgiving
- Local jurisdictions to do similar things in their public hearing meetings













• To find the most effective way to disseminate so much information without overwhelming the audiences?

• It took us many iterations to compile the "Resource Page"



Frequently Asked Questions by Peers

• Why was only a subset of highways selected?

- The VPP Suite imposes a threshold on the number of road segments that can be analyzed in one query.
- Why were 2013 data not used? (the analysis used 2012 data)
 - The source data has anomalies on several days during the analysis period: speed close to zero on the MD portion of the Capital Beltway for a number of consecutive hours.









Wish List for the Trend Map



- More TMCs allowed (we understand that computational power may be a constraint)
- Anomalies removed or corrected
- Users can choose a subset of the 24-hour period to display the animated maps
- Users can edit the caption of the maps
- More flexibility in the embedding screen size choices





Acknowledgements

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