

ITEM # 6

Arterial Highway Congestion Monitoring Program

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Background

- TPB's Arterial Monitoring Program started using GPS floating car surveys in FY 2000
- By FY 2011, this program covered 57 major arterial routes (totaling 430 centerline miles) that were also part of the National Highway System (NHS).
- About one third of the routes were surveyed in a fiscal year, forming a once-every-three-year monitoring frequency for the same route.

MAP-21

- Performance-based planning and programming includes two national goals related to congestion monitoring program – congestion reduction and system reliability
- Requires monitoring, target setting, and performance measurement

Schedule and Routes

Jurisdiction	FY 2000 FY 2003 FY 2006 FY 2009	Mileage	FY 2001 FY 2004 FY 2007 FY 2010	Mileage	FY 2002 FY 2005 FY 2008 FY 2011	Mileage	Total	
	Routes		Routes		Routes			
Maryland	MD 355 Segment 1 & 2	15.3	MD 4	11.5	Georgia Avenue (MD 97) Segment 1 & 2	9.5		
	MD 117	6.8	MD 586	5.4	MD 5	11.9		
	MD 198	5.0	MD 450	12.8	MD 28	9.0		
	MD 197	14.7	MD 144	4.2	MD 193 (University Blvd.)	4.2		
	US-1 (Baltimore Av.) * Segment 1 & 2	13.4	Indian Head Highway *	11.0	Randolph Road	9.1		
	MD 193 *	4.6			Colesville Road / US29 *	7.1		
		59.8		44.9		50.8		155.5
Virginia	US 50 Segment 1 & 2	23.0	VA 234	22.6	FFX County Parkway	19.7		
	US 15	12.5	VA 28	17.0	US 1 Segment 1 & 2	18.8		
	VA 123 Segment 1, 2 & 3	27.7	VA 120	8.1	US 29 Segment 1, 2, 3	21.0		
	Wilson Boulevard *	4.9	VA 7	29.3	US 29 * Segment 4	11.1		
			VA 28 *	7.0				
	68.1		84.0		70.6	222.7		
District of Columbia	Wisconsin Avenue	4.1	Canal Road / M Street NW	3.7	14th Street NW	1.0		
	Pennsylvania Avenue	1.1	7th Street NW / Georgia Avenue	3.4	16th Street NW	6.1		
	17th Street NW	0.7	Georgia Avenue	3.3	Connecticut Avenue NW	4.0		
	Independence Avenue	1.9	Constitution Ave / Louisiana Avenue	2.4	K Street NW/New York Avenue	4.2		
	I Street NW	0.8	Pennsylvania Avenue SE / Branch Avenue	3.7	Military Road / Nebraska Avenue	2.5		
	H Street NW	0.6			Pennsylvania Avenue NW	0.8		
	15th Street NW	0.7			L Street NW	1.1		
	16th Street NW **	6.1			South Dakota *	2.7		
	L Street NW **	1.2						
	Rhode Island Av. (US-1) *	3.3						
		20.5		16.5		22.4		59.4
TOTAL		148.4		145.4		143.8	430.3	

* New Routes studies since FY 2009 & constitute 65.1 miles

INRIX-Based Arterial Monitoring

- Include all 57 routes (430 centerline miles) that had been surveyed by the Floating Car method.
- Produce the following performance measures by segment, route and different time of day periods for a full calendar year
 - Speed
 - Travel Time
 - LOS
 - Travel Time Index
 - Planning Time Index
 - Route-Miles by Congestion Level (as defined in the CMP Tech Report)
- Compare the INRIX data results with floating car survey results, and if possible, develop a congestion trend.

Schedule

- Network preparation and data processing in progress
- Initial results in June 2013
- Findings will be included in CMP Technical Report update in 2014