Maine Turnpike Authority
HNTB Corporation
Kevin Hooper Associates
Morris Communications

Date
7/21/2017

To
PAC Members

From
Matthew Pelletier

Subject
Thru Traffic & Gas Prices

Project Correspondence

Per comments from the first PAC meeting on June 28th, 2017, the following information is provided:

- Estimate of thru traffic on I-295 (summarized below);
- Estimate of northbound I-95 traffic in the Greater Portland area using exit 52 (summarized below); and
- Graph that correlates gas prices to Portland Area turnpike traffic volumes for the past 10-years (Graph 1 attached).

I-295 Thru Traffic:

From the results of the Maine Turnpike Authority 2010 Origin-Destination survey conducted by HNTB, the percentage of thru traffic on I-295 was calculated to be approximately 21 percent. The thru traffic on I-295 was calculated by taking the survey responses that passed through the Portland area northbound via exits 44 and 45 from the turnpike, plus the survey responses that passed through the Portland area traveling southbound on I-295 and entered the turnpike via exit 44 and comparing to the total survey responses that traveled the section of the turnpike from exits 42-44.

While traffic varies on I-295, some sections carry 50,000 vehicles per day or greater on average. Twenty-one percent thru traffic would mean that over 10,000 vehicles per day traveling on I-295 have both an origin and destination outside of the Greater Portland Region.

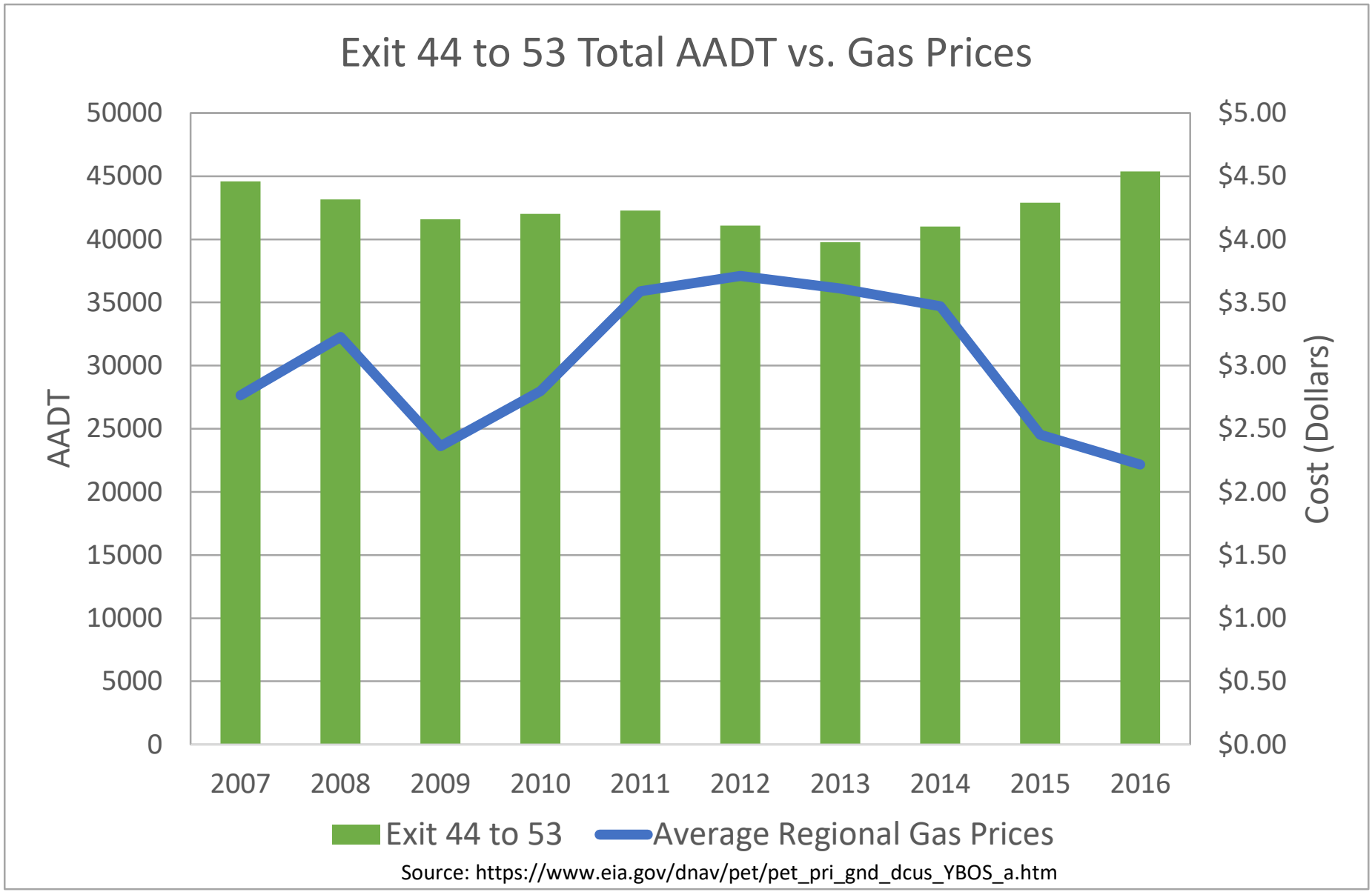
Exit 52 Northbound Traffic

From the results of the Maine Turnpike Authority 2010 Origin-Destination survey conducted by HNTB, the percentage of thru traffic on I-95 in the Greater Portland area traveling northbound and using 52 was estimated to be almost 6 percent. This was calculated by summing the number

of survey responses exiting at 52 that traveled northbound from an interchange south of exit 44 and comparing to the total survey responses traveling from south of exit 44.

Gas Prices and Traffic Volume

Graph 1 correlates the average region gas prices to the AADT (Average Annual Daily Traffic) from exit 44 to 53 from 2007 to 2016.


Exit 44 to 53 Total AADT vs. Gas Prices
AADT
50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
$5.00
$4.50
$4.00
$3.50
$3.00
$2.50
$2.00
$1.50
$1.00
$0.50
$0.00
Cost (Dollars)
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
Exit 44 to 53
Average Regional Gas Prices
Source: https://www.eia.gov/dnav/pet/pet_pri_gnd_dcus_YBOS_a.htm