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## Evaluating Alternative Toll-Based Financing Approaches: A Case Study of the Boston Metropolitan Area

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**EVALUATING ALTERNATIVE TOLL-BASED FINANCING APPROACHES:  
A CASE STUDY OF THE BOSTON METROPOLITAN AREA**

A Thesis Presented

by

ROSARIA M. BERLINER

Submitted to the Graduate School of the  
University of Massachusetts Amherst in partial fulfillment  
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## **ABSTRACT**

EVALUATING ALTERNATIVE TOLL-BASED FINANCING APPROACHES:

A CASE STUDY OF THE BOSTON METROPOLITAN AREA

MAY 2011

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The current condition of the nation's transportation system is of great concern to State Departments of Transportation. Currently, funds in many state transportation budgets are depleting. Nowadays, State DOT officials together with researchers are exploring various transportation financing approaches and they are considering the utility, merits, challenges, and impacts of these approaches.

A major financing approach being considered relies on the collection of tolls on existing toll roads and on roads on which tolls are not presently collected. Recent technology advancements in Open Road Tolling and All-Electronic Tolling have provided State DOTs with the opportunity to consider expanding the use of toll revenue to finance transportation investments. These two types of tolling technologies appeal to motorists by allowing them to maintain their current highway speed while going through a toll plaza. In addition, many State DOT officials now view toll based approaches as viable "user fee" based strategies together with other alternative approaches such as the fuel tax and sales tax.

Central to this research is a case study of the Boston Metropolitan area. The case study includes the formulation and preliminary evaluation of toll based financing

approaches potentially suitable for consideration in Massachusetts. The approaches include increases to existing tolls and placing tolls on selected roadways not currently tolled. The evaluation includes estimates of changes in demand and anticipated revenues associated with these toll based approaches. It is expected that the results of this research will be of interest to State DOT officials in Massachusetts and other states.

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## **CHAPTER 1**

### **INTRODUCTION**

The current condition of the nation's transportation system is of great concern to State Departments of Transportation (DOT). Currently, funds in many state transportation budgets are depleting. At the present time, State DOT officials together with researchers are exploring various transportation financing approaches and they are considering the utility, merits, challenges, and impacts of these approaches.

A major financing approach being considered relies on the collection of tolls on existing toll roads and on roads on which tolls are not presently collected. Recent technology advancements in Open Road Tolling and All-Electronic Tolling have provided State DOTs with the opportunity to consider expanding the use of toll revenue to finance transportation investments. These two types of tolling technologies appeal to motorists by allowing them to maintain their current highway speed while going through a toll plaza. In addition, many State DOT officials now view toll based approaches as viable "user fee" based strategies together with other alternative approaches such as the fuel tax and sales tax.

## CHAPTER 2

### OBJECTIVES OF THE RESEARCH

The objectives of this research are as follows:

- **Review the experiences and lessons learned** with toll based financing approaches to provide revenue to finance toll road improvements and other transportation investments.
- **Identify the financing questions** of interest to State Departments of Transportation with an emphasis on the questions, issues, challenges, merits, and impacts associated with the evaluation and implementation toll based financing approaches as they compare to other alternative approaches. Examples of such questions are:
  - What are the major financing approaches available to State DOTs to support surface transportation investments?
  - Should tolls be considered as a major approach along with other approaches such as the fuel tax and/or a sales tax?
  - Should current toll levels be increased and should innovative pricing strategies be employed?
  - Should tolls be charged on existing roads where tolls are not currently collected such as state borders and at other locations?
  - What level of revenue can be expected from such toll based approaches and strategies as compared to other approaches and what analytical methods might be used to make these revenue estimates?

- What innovative technologies might be used to facilitate the collection of tolls and what are the expected capital and operating costs?
- **Contribute to the state of practice** by improving our understanding of the alternative financing approaches being considered by State DOTs and the relative levels of revenue that might be generated with such financing approaches. More specifically, the results of this research are expected to shed light on the contribution toll based approaches are able to make relative to the fuel tax and a sales tax. Finally, the results of the research are intended to illustrate the application of simplified analytical methods to estimate the level of revenues expected from toll based approaches.

## **CHAPTER 3**

### **BACKGROUND AND RELATED WORK**

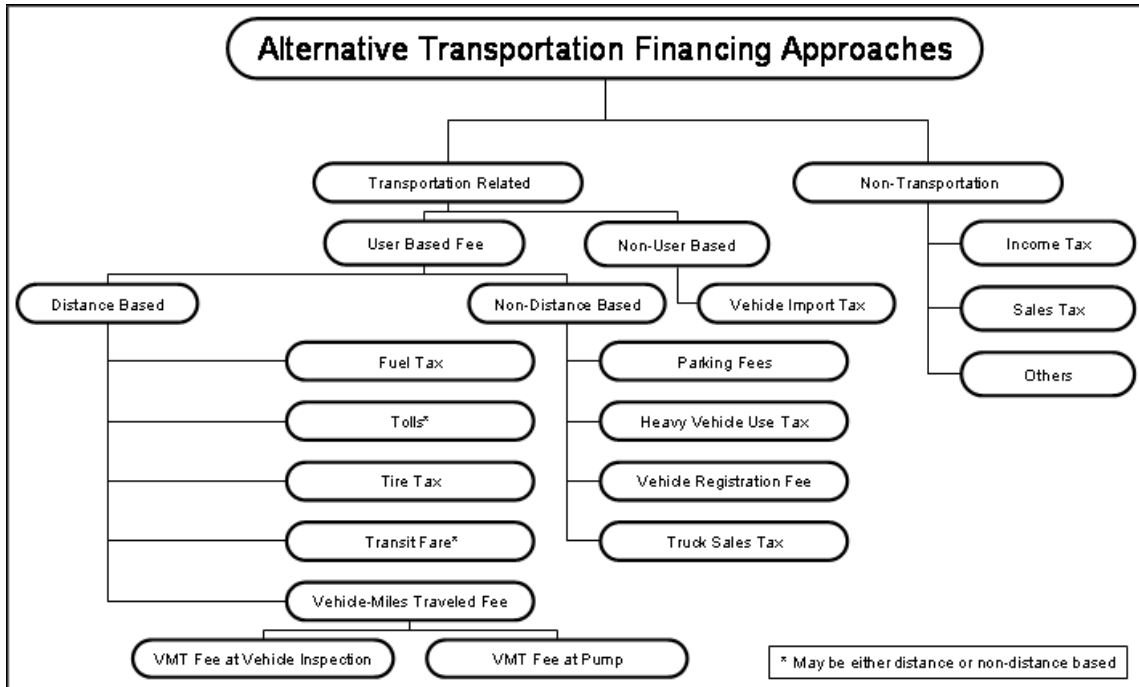
As we dive deeper into the economic recession, our nation's roadways continue to deteriorate and transportation funds need to be replenished. In order to restore our nation's roadways to acceptable physical and operating conditions and allow for new transportation projects, various states have invested in researching and developing alternative finance approaches. Oregon, Iowa, Minnesota, New York, along with other states have focused on developing better toll payment systems and other user fee based approaches.

To date, tolls have been considered as appropriate sources of revenue. Initiatives in various forms of tolling have been explored nationally and internationally to fully reap their benefits. A number of states have been at the forefront when it comes to employing innovative toll policies and collection strategies including open-road tolling, cashless tolling, border privatization of toll roads, border tolling and other toll revenue and collection innovations.

What follows is an overview of common financing approaches being used by State DOTs; a more detail description of the innovative toll based approaches being implemented in the U.S.; and a discussion of the issues considered in the design of appropriate financing approaches; and a brief review of the capital and operating costs to implement these toll based approaches.

### 3.1 Alternative Financing Approaches

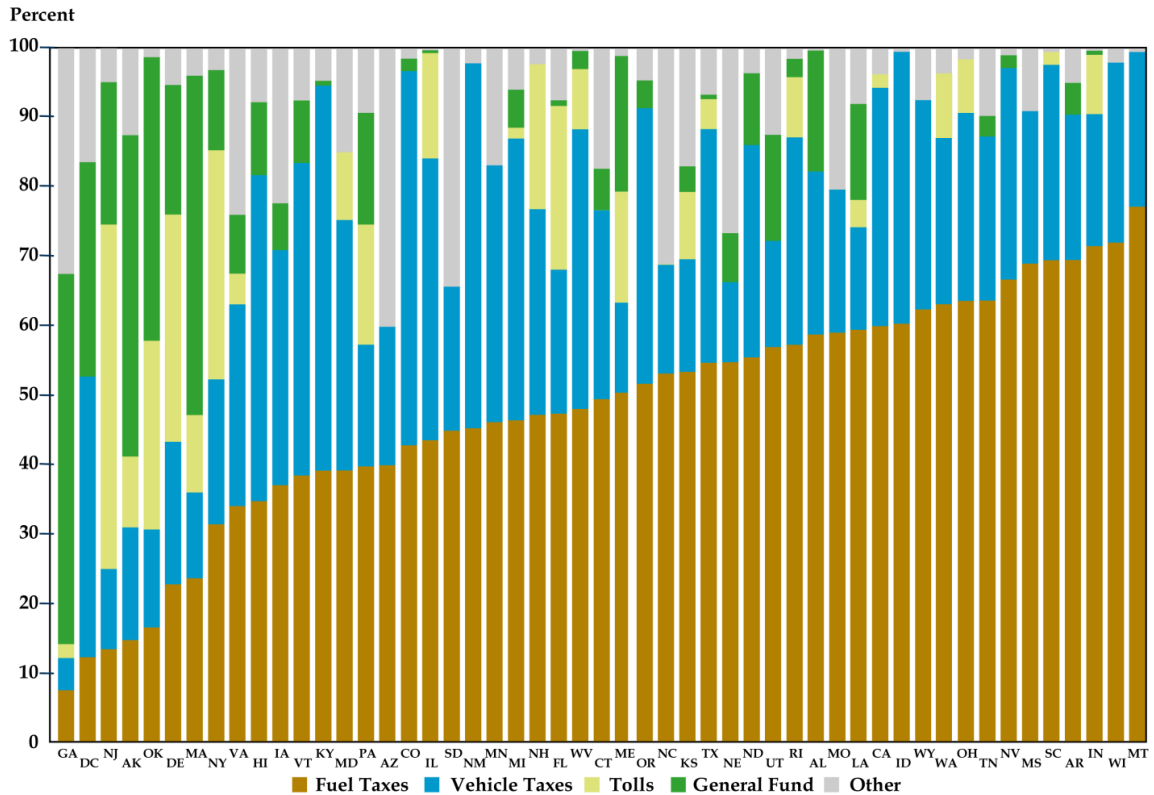
As shown in Figure 1, alternative financing approaches for transportation can be broken down into two groups: transportation and non-transportation related. (16)



**Figure 1. Alternative Transportation Financing Approaches**

In the non-transportation group, states have the ability to use the income and sales taxes as a means to finance transportation. It is not uncommon for some states to use a portion of their sales tax to fund public transit. Within the transportation group, state officials will rely on fees including the fuel tax, tolls, tire tax, and in some cases a vehicle-miles traveled fee. Figure 2 shows by state the different financing approaches used in 2004. (15)





Source: 2004 Highway Statistics, Table SF-1

**Figure 2. Transportation Revenue Sources, State by State, 2004.**

Another financing approach being considered by State DOTs is the so-called vehicle-miles traveled (VMT) fee which could be paid at the pump or at an inspection station. The Oregon Department of Transportation ran a pilot program in 2006 showcasing the possibility of paying a VMT at the pump. (16)

More recently, initiatives in alternative financing approaches undergone by Texas DOT, the New York State Thruway Authority and the New York MTA indicate promise for technological advancement in toll collection throughout the country. These initiatives are reviewed below.

## **3.2 Toll Based Financing Approaches**

### **3.2.1. ORT**

At approximately 5am, Friday, May 14, 2010, the Highway Speed E-ZPass toll lanes at the Woodbury Toll Plaza opened on the New York State Thruway (NY Thruway). It is the first location on the Thruway that bolsters open-road tolling (ORT) for both passenger and commercial vehicles. (1) These lanes allow vehicles to pass through the intersection at the highway speed of 65mph. A similar initiative was undergone in 2007 at the Spring Valley Toll Plaza; however, the toll plaza only serves commercial vehicles. Four highway speed lanes have been added to the toll plaza two in each direction. (2) The \$85 million project is envisioned to be successful. Although the Highway Speed E-ZPass lanes have been opened construction was scheduled to be completed in September 2010. (3) More than 42,000 vehicles pass through the toll plaza on an average day and that number rises to 62,000 per day during the summer and holiday weekends. (1, 5, 6) The NY Thruway Authority decided to proceed with the project in this location because of the heavy congestion seen daily at the toll plaza. (2) The new high speed lanes will reduce congestion in the entire toll plaza, increase capacity, and reduce the adverse effects on the environment. New York officials have been very excited about the project stating that it will help in New York's dedication to creating a greener State. (1)

### 3.2.2 AET

Announced in the Making Every Dollar Count report released by the Metropolitan transportation Authority (MTA) in January 2010, the Henry Hudson Bridge is the MTA's first test location for a non-stop all electronic toll collection site. (7) This is a two phase project. Phase 1 which introduces a gateless tolling scheme, where gates will be removed and cameras will be installed for enforcement barriers will remain intact is scheduled to be completed in mid-January 2011. Phase 2, which will eliminate cash collection completely and the entire toll plaza will turn to all-electronic toll collection, is scheduled to be completed by January 2012. (8) The project is expected to cost about \$10 million with phase 1 costing about \$4.6 million and phase 2 costing about \$5.4 million. (8) The Henry Hudson Bridge toll plaza will be the first AET collection plaza in an urban and densely populated area. (9)

The Henry Hudson Bridge was chosen for the following reasons: there are no nearby entries and exits and thus there are potential savings from not proceeding with an otherwise necessary rebuild of the toll plaza; there is a high out-of-state component to the traffic (NJ, CT, PA drivers) so interstate collection can be tested; the Parkway serves cars-only so there are no vehicle classification complications; and the Parkway is a medium sized facility with 60,000 to 70,000 transactions/day. (8)

During Phase 1 they plan to remove the gate and install cameras. Initially, the cameras will be used to identify violators and later (more likely in Phase 2) to do toll-by-plate of vehicles without a transponder. There is a proposed violation fee of \$50 for those who do not have a transponder during Phase 1; however, the fee is anticipated to be revenue neutral the income from the fees are designed to offset the cost of collection and

inescapable toll revenues. (8) Phase 2 will begin around January 2012 when the plaza will go cashless. From this point on and conditions permitting, all traffic will go through the plaza and toll at highway speed. Payment will be accepted through various means: on-line, phone, mail, or payment agencies. (8) MTA Bridges and Tunnels President Jim Ferrara says the new traffic pattern leading into Manhattan will result in a smoother transition for drivers coming onto the Bridge from the two-lane Henry Hudson Parkway. (9)

### **3.2.3 Texas Tolling**

The Central Texas Turnpike System (CTTS), in Texas, opened three turnpikes, SH130 tolls 1-4, SH45 North, and Loop 1 in 1998. Each roadway is equipped with Open Road Tolling (ORT), video tolling, and traditional cash tolling that are used concurrently as means of toll payment. In center lanes, highways are ORT is used in conjunction with video tolling. In order to use the system developed in Texas, users either sign up for a TxTag, a transponder placed inside the vehicle. The TxTag uses a system similar to that of the Fast Lane and EZ-Pass passes in which users create an account from which funds are drawn or to which charges are billed. If the user does not sign up for the TxTag, they are still able to use the highway speed toll lanes and are tolled by video tolling. In CTTS' case, video tolling has progressed beyond violation detection to general toll payment. Any vehicle that passes through the ORT facility that does not have a transponder has their license plate captured on video. This picture is then processed and the registered owner of the vehicle receives a bill in the mail, dubbed "Pay by Mail." Processing and late fees are applied if the bill is not paid on time. Additionally, CTTS has cash toll lanes

on these roadways to allow the user to pay in cash if they so choose. Since its inception, more turnpike sections have been developed. The North Texas Tollway Authority (NTTA) currently operates two toll roads with AET. These roads either use ORT and video tolling or just ORT. In instances where the roadway is only ORT, users have to have a transponder.

Over the two year period, from 2007 to 2008, the CTTS processed about 99 million toll transactions. More than half of these transactions used the ORT/video tolling. In 2009, CTTS had 73 million transactions, generating about \$59 million from tolls. The total revenue for 2009 was \$61,674,500. About 74% of vehicles used a transponder on the turnpikes. About 17% of the toll transactions used the video tolling system and 9.3% of the transactions used the old cash system. (12)

Since, video tolling costs more than using transponders due to image processing, CTTS charges 25% more for “Pay by Mail” than by transponder, plus a \$1.00 processing fee. To encourage users to sign up for a transponder, each “Pay by Mail” bill comes with literature and an application for a transponder. There has been about 20% non-payment of video tolls. Texas does not use refusal of renewal of registration for unpaid tolls so they have to take violators to Justice of the Peace courts—this has made it difficult for the state to collect toll payments. Unbillable tolls, from poor license plate reads are about 2% of total transactions, 11% of total plate reads. TxDot/CTTS outsources plate readings to a company that uses optical character recognition (OCR). Unbillable tolls were due to poor image quality, obscured plates, US Government plate, non-US plate or no license plate because no address could be found in the DMV vehicle registration database. (13)

Factors that affect license plate identification/recognition (LPI/R) readings include, poor

image resolution, blurry images, poor lighting and contrast, obscured plates, out of state or vanity plates, and circumvention techniques.

### 3.2.4 NCHRP

In 2006, the National Cooperative Highway Research Program (NCHRP) released Synthesis 364: Estimating Toll Road Demand and Revenue. This synthesis gives a detailed analysis of toll road forecasting in terms of demand changes and revenue changes. Through the use of the four-step process NCHRP contributors affirm that changes in demand can be modeled and estimated.

“The demand for travel is a derived demand.” (14) There are several factors that need to be considered when deriving demand: human activities, demographic location, socioeconomic issues, as well as land-use. In order to create a successful model, the four-step model is created using a three step process: input, process, and output. The “inputs” are defined to be factors such as zone definition, land-use inputs, transportation network, and observed travel characteristics. Secondly, the process is where the “four-step” process earns its name. The process is comprised of four steps which are trip generation, trip distribution, modal split, and trip assignment. The final part of the four-step process composition is the outputs. The outputs are “volumes by link and ridership numbers.” (14) These numbers can be used to identify costs and revenues of a tolled facility.

As previously implied, there is a relationship between demand and revenue forecasts in that “revenue forecasts are **dependent** on travel demand forecasts and the assumptions on which the travel forecasts were based.” It is not surprising that there is a proportional relationship between the uncertainty in revenue forecasts and the uncertainty

in travel demand forecasts. Moreover, revenue forecasts are dependent on the tolling technology, fare, and structure (schedule). Tolling schemes sometimes include discounts for electronic tolling, such as the FastLane pass, or multipass users, heavy vehicle fares, and variable tolling practices. “Increases in toll rates can also affect the demand, especially as some authorities have elected to increase toll rates more sharply than projected to quickly generate revenues in the short term.” (14)

Calculating estimated toll revenues is similar to peeling an onion: as the tolling scheme becomes more complex, more layers of considerations are made. In general, travel demand forecasts are developed for a weekday peak hour or peak period. In order to apply generalized daily and yearly traffic volumes, conversion factors are used. Furthermore, revenue is then estimated by multiplying the forecast volume by the toll amount taking into account different toll rates, toll evasion, and discounts.

### **3.2.5 Implementation Costs**

Within the context of this research, there are two sets of capital and operating costs that need to be considered: costs for the Massachusetts’ Turnpike (an existing toll road) and costs for Interstate 93 (a road on which tolls are not currently collected). Since no construction or structural changes will be made to the Massachusetts’ Turnpike estimating those capital and operating costs are relatively simple to determine; whereas with Interstate 93, the literature on Open-Road and video tolling needed to be reviewed to shed light on this project.

Capital cost estimates include items such as transponder costs, processing center, and telecommunication systems. Furthermore the cost of minor items is included in the

contingency component, which is usually about 10% of the total itemized capital costs. Operational cost estimates consider major items: maintenance and salary and benefits associated with toll road personnel.

In 2009, the operating expenses for the western portion of the Massachusetts' Turnpike were \$66,696,000 for the fiscal year. (17) Repair and reconstruction costs for the western portion of the Massachusetts' Turnpike in 2007 were \$8,000,000. Moreover, for the 2007 fiscal year the operations and policing costs for the Boston Extension was approximately \$52,000,000. The repair and reconstruction costs for the Boston Extension were about \$12,000,000 for the year 2007. (18) Since there would be no "new" construction for this project, the capital cost to increase the existing tolls on the Massachusetts' Turnpike portions is assumed to be \$0.00.

In 2004, the New York State Thruway Authority estimated that they would spend between \$30 and \$50 million for each highway speed toll plaza installed on the Thruway – 6 years later the actual cost for the new toll plaza that opened in May 2010 was about \$75 million. (2, 19) On the other hand, the All-Electronic Tolling project being done on the Henry Hudson toll plaza is contracted for about \$10 million. The magnitude of the proposed project for Interstate 93 better aligns with the Henry Hudson toll plaza because each on ramp can be considered a "medium-sized" facility. Since the ownership of transponders for the Boston metropolitan area is unknown, it is assumed that the Commonwealth will spend approximately 10% of the capital costs on this equipment, about \$1 million. Therefore, a preliminary order of magnitude estimate of the capital costs for the implementation of tolls on Interstate 93 is \$111 million. The capital costs are projected to be \$111 million because there are 11 exits that are being considered and it is



estimated that each exit will cost approximately \$10 million. Since the Henry Hudson toll plaza is a two level plaza, it is not unreasonable to group the north and southbound exits in to one estimate.

In a side by side comparison of Interstate 93 and the Henry Hudson, it is shown that the average annual daily traffic (AADT) at each exit on Interstate 93 is lower than the Henry Hudson toll plaza. Furthermore, the \$75 million used for the Woodbury toll plaza in Upstate New York was used for the construction of the toll plaza as well as additional repairs to the current toll booths and roadway.

The anticipated operating costs on I-93 would include personnel and repairs and maintenance. It was assumed that there would be about 30 personnel hired by MassDOT to manage the AET I-93 project. The average salary of personnel for the Massachusetts Turnpike was assumed to be \$70,000 a year. Additionally, it is assumed that the maintenance cost of the Interstate 93 facilities will be about \$200,000 annually or 15% of the equipment capital costs and 5% of the processing center costs.

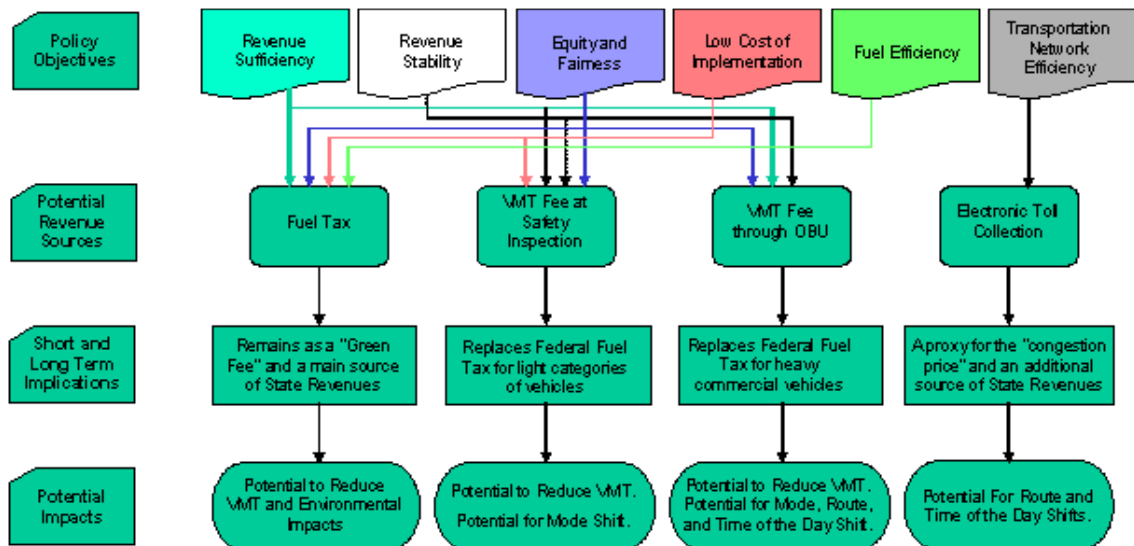
### **3.3 Designing Appropriate Transportation Financing Approaches**

The design of an appropriate financing approach is not a trivial task. As part of the design process, State DOT officials consider a number of questions including:

- What are the major financing approaches available to State DOTs to support surface transportation investments?
- Should tolls be considered as a major approach along with other approaches such as the fuel tax and/or a sales tax?

- Should current toll levels be increased and should innovative pricing strategies be employed?
- Should tolls be charged on existing roads where tolls are not currently collected such as state borders and at other locations?
- What level of revenue can be expected from such toll based approaches and strategies as compared to other approaches and what analytical methods might be used to make these revenue estimates?
- What innovative technologies might be used to facilitate the collection of tolls and what are the expected capital and operating costs?

Figure 3 presents a framework that suggests that there are four major elements that need to be considered in the design and evaluation of a transportation financing approach including establishing policy objectives; determining revenue sources; identifying short and long term implications; and assessing impacts. (16)



**Figure 3. Alternative Finance Approaches Framework.**

As depicted in Figure 3, the Fuel Tax, VMT Fee at Safety Inspection, and VMT through OBU (On-Board Unit), all have implications within revenue sufficiency, revenue

stability, equity, and low cost implications. It is important to note in light of the objectives of this research that all electronic toll (AET) collection has proven in certain cases to be successful in the collection of an adequate, stable, equitable, and fuel efficient source of revenue. Furthermore, in cases where the route is heavily traveled (such as Interstates 90 and 93) there is an expectation of revenue stability, because the demand for toll road service has been shown historically on existing toll roads to be inelastic with respect to changes in toll levels. Moreover, implementing tolls on roadways that are not currently tolled, as is the case with North South Interstate 93, has the potential to satisfy equity concerns vis a vis those who pay tolls on the East West Mass Turnpike. In addition, implementing a congestion pricing scheme on Interstate 93 may reduce travel time for those traveling during the peak hours.

**CHAPTER IV**  
**RESEARCH METHODOLOGY**

**4.1 Research Objectives**

As presented in section 2, the research objectives are as follows:

- **Review the experiences and lessons learned** with toll based financing approaches to provide revenue to finance toll road improvements and other transportation investments.
- **Identify the financing questions** of interest to State Departments of Transportation with an emphasis on the questions, issues, challenges, merits, and impacts associated with the evaluation and implementation toll based financing approaches as compared to other alternative approaches. Examples of such questions are:
  - What are the major financing approaches available to State DOTs to support surface transportation investments?
  - Should tolls be considered as a major approach along with other approaches such as the fuel tax and/or a sales tax?
  - Should current toll levels be increased and should innovative pricing strategies be employed?
  - Should tolls be charged on existing roads where tolls are not currently collected such as state borders and at other locations?
  - What level of revenue can be expected from such toll based approaches and strategies as compared to other approaches and what analytical methods might be used to make these revenue estimates?

- What innovative technologies might be used to facilitate the collection of tolls and what are the expected capital and operating costs?
- **Contribute to the state of practice** by improving our understanding of the alternative financing approaches being considered by State DOTs and the relative levels of revenue that might be generated with such financing approaches. More specifically, the results of this research are expected to shed light on the contribution toll based approaches are able to make relative to the fuel tax and a sales tax. Finally, the results of the research will illustrate the application of simplified analytical methods to estimate the level of revenues expected from toll based approaches.

## **4.2 Tasks**

In order to achieve the research objectives, the following tasks should be accomplished:

Task 1: Review literature signifying the importance of alternative finance approaches in transportation.

Task 2: Describe the toll approaches to be evaluated and their intended policy objectives.

Task 3: Conduct a case study by formulating toll based approaches and estimating changes in demand and expected revenues using elasticity methods.

A description of each task is provided below.

### **4.2.1 Task 1: Carry out Literature Review**

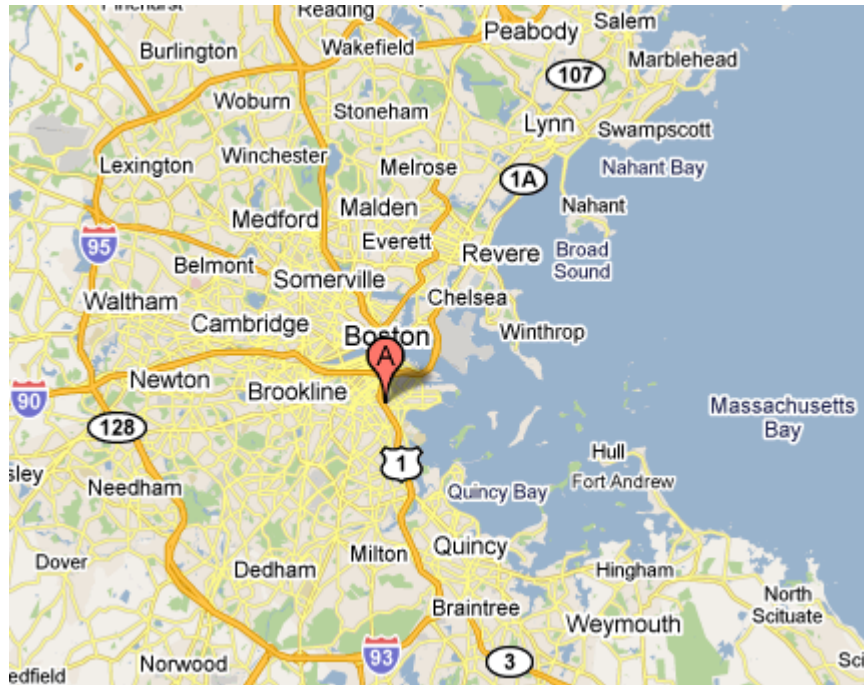
Task 1 will consist of a literature review on the subject of transportation financing. Literature will be drawn from government reports, scholarly journal articles, university research reports, and other sources. An emphasis will be placed on reviewing

ongoing toll road projects in Texas, New York, and other states in which innovative toll strategies and technologies are being considered. In addition, widely used analytical methods for estimating toll revenues will be described. Finally, the issues, questions, and concerns of interest to State DOT officials as they consider alternative financing approaches regarding will also be discussed. These questions will be used as a basis in the in the formulation of the alternative financing approaches formulated in Task 2 and in conduct of the case study in Task 3.

#### **4.2.2 Task 2: Formulate Alternative Financing Approaches**

There are three toll based financing approaches that will be evaluated as part of this research. These three approaches are:

1. Increase tolls on Interstate 90 by 10% each year and impose no tolls on Interstate 93
2. Increase tolls on Interstate 90 for one year and impose a flat rate toll of \$1.00 on Interstate 93
3. Increase tolls on Interstate 90 for one year and impose a \$1.00 toll on Interstate-93 as well as a congestion toll of an additional \$0.50 during the peak travel periods.



**Figure 4. Boston Metropolitan Area Map**

Figure 4 depicts the Boston metropolitan area. To the left of the “A” marker, lies Interstate 90 (also known as the Massachusetts Turnpike). North and south of the marker from Braintree to Woburn lies Interstate 93– the highway on which toll implementation is being considered.

The expectation is that raising tolls (including congestion pricing strategies) on the currently tolled Interstate 90 and imposing similar toll strategies on Interstate 93 will generate additional revenue for future transportation investments and possibly reduce peak period congestion.

### **4.2.3 Task 3**

Based on current revenue and demand data and other information compiled by the Central Transportation Planning Staff (CTPS) and others on the East-West Interstate 90 (also referred to as the MassPike) and the North-South Interstate 93, changes in demand and expected revenue along both roadways will be examined for three proposed toll

based approaches using empirically derived toll elasticity values in conjunction with sensitivity analyses.

As stated in Task 2, there are three toll based financing approaches that will be evaluated. These three approaches are:

1. Increase tolls on Interstate-90 by 10% each year and impose no tolls on Interstate-93
2. Increase tolls on Interstate-90 for one year and impose a flat rate toll of \$1.00 on Interstate-93
3. Increase tolls on Interstate-90 for one year, impose a \$1.00 toll on Interstate-93 as well as a congestion toll of an additional \$0.50 during the peak travel periods.

The data supplied by CTPS will allow for the generation of a model for the North-South roadways surrounding the Boston metropolitan area that are not tolled. Using the data, estimates will be developed that map the change in demand experienced when tolls are installed on these roadways on which tolls are not presently collected. This change in demand will then be used to estimate revenue for the new tolls. On Interstate 93 changes in demand and revenue for a \$1 and \$1.50 toll as well as a incorporating a congestion pricing scheme will be evaluated. For Interstate 93, open-road tolling technology as well as all-electronic payment technology would be the only toll collection option considered, in order to maintain the current flow of traffic.

CTPS data also will be used to further analyze changes in demand and revenue when the toll fares on Interstate 90 are increased. Using this data, changes in demand based on increased toll fares are estimated. Furthermore, after having calculated the demand change, the change in revenue can also be calculated.



## CHAPTER V

### RESEARCH ANALYSIS AND RESULTS

#### 5.1 Demand and Revenues

Demand and revenue forecasting is never a simple task. Multiple variables need to be considered when approximating changes in demand. The sections below thoroughly outline and describe analytical methods used to estimate changes in demand on roadways when; a) tolls are increased on roadways that currently have tolls; b. tolls are implemented on roadways that are not currently tolled. Two methods of analysis were used: point elasticity and iterative arc elasticity.

##### 5.1.1 Mass Turnpike: The Boston Extension

In January 2010, Cambridge Systematics (CS) prepared a report for the Massachusetts' Department of Transportation that focused on traffic and revenue in the Commonwealth of Massachusetts. This report details the toll transactions, toll revenues, and average toll on the Boston Extension of the Massachusetts' Turnpike. The Boston Extension includes exits 15 to 26 on the Massachusetts' Turnpike. Geographically users who travel on the Boston Extension can travel between Newton, Massachusetts and Logan International Airport. Using this data, an approximated yearly revenue was generated using an elasticity based method for a proposed 10% increase on all tolls on the Turnpike Extension. Furthermore, a sensitivity analysis was conducted to show the impacts of a various elasticity assumptions on revenues.

First and foremost, the data extracted from Table 1 supplied the "original" demand, revenue, and toll prices.

Table 2.8 2009 versus 2008 Toll Transactions and Toll Revenue by Month

Month	Toll Transactions			Toll Revenue			Average Toll		
	2008	2009	Percent Change	2008 (Dollars)	2009 (Dollars)	Percent Change	2008 (Dollars)	2009 (Dollars)	Percent Change
<b>Boston Extension</b>									
January	5,519,797	5,012,039	-9.2%	6,333,613	5,701,418	-10.0%	1.15	1.14	-0.9%
February	5,268,526	4,904,223	-6.9%	6,040,721	5,557,837	-8.0%	1.15	1.13	-1.2%
March	5,830,713	5,512,302	-5.5%	6,674,466	6,230,412	-6.7%	1.14	1.13	-1.3%
April	5,903,935	5,650,435	-4.3%	6,779,977	6,395,176	-5.7%	1.15	1.13	-1.4%
May	6,044,486	5,804,814	-4.0%	6,960,449	6,574,404	-5.5%	1.15	1.13	-1.6%
June	5,798,167	5,738,387	-1.0%	6,680,633	6,496,568	-2.8%	1.15	1.13	-1.7%
July	5,634,641	5,655,532	0.4%	6,512,707	6,417,071	-1.5%	1.16	1.13	-1.8%
August	5,550,527	5,553,963	0.1%	6,425,689	6,313,145	-1.8%	1.16	1.14	-1.8%
September	5,689,641	5,628,847	-1.1%	6,545,288	6,361,542	-2.8%	1.15	1.13	-1.8%
October	6,018,436	5,948,223	-1.2%	6,910,569	6,707,969	-2.9%	1.15	1.13	-1.8%
November	5,344,727	5,443,998	1.9%	6,100,426	6,120,794	0.3%	1.14	1.12	-1.5%
December	5,157,398	5,373,289	4.2%	5,875,509	6,042,163	2.8%	1.14	1.12	-1.3%
<b>Total</b>	<b>67,760,994</b>	<b>66,226,052</b>	<b>-2.3%</b>	<b>77,840,046</b>	<b>74,918,499</b>	<b>-3.8%</b>	<b>1.15</b>	<b>1.13</b>	<b>-1.5%</b>
<b>Tunnels</b>									
January	1,571,531	1,437,340	-8.5%	5,552,556	4,978,964	-10.3%	3.53	3.46	-2.0%
February	1,522,647	1,389,852	-8.7%	5,406,472	4,800,820	-11.2%	3.55	3.45	-2.7%
March	1,721,301	1,613,355	-6.3%	6,133,669	5,603,123	-8.6%	3.56	3.47	-2.5%
April	1,723,964	1,620,336	-6.0%	6,151,708	5,607,243	-8.9%	3.57	3.46	-3.0%
May	1,799,635	1,721,400	-4.3%	6,420,781	5,962,077	-7.1%	3.57	3.46	-2.9%
June	1,784,140	1,724,016	-3.4%	6,384,447	5,973,071	-6.4%	3.58	3.46	-3.2%
July	1,759,165	1,774,237	0.9%	6,233,407	6,129,171	-1.7%	3.54	3.45	-2.5%
August	1,757,576	1,775,579	1.0%	6,221,428	6,138,253	-1.3%	3.54	3.46	-2.3%
September	1,648,027	1,685,177	2.3%	5,857,393	5,861,652	0.1%	3.55	3.48	-2.1%
October	1,739,321	1,785,208	2.6%	6,177,475	6,245,454	1.1%	3.55	3.50	-1.5%
November	1,543,909	1,626,422	5.3%	5,401,681	5,630,699	4.2%	3.50	3.46	-1.0%
December	1,531,920	1,620,728	5.8%	5,324,455	5,543,142	4.1%	3.48	3.42	-1.6%
<b>Total</b>	<b>20,103,136</b>	<b>19,773,650</b>	<b>-1.6%</b>	<b>71,265,471</b>	<b>68,473,669</b>	<b>-3.9%</b>	<b>3.54</b>	<b>3.46</b>	<b>-2.3%</b>

Source: MassDOT.

Table 1. Toll Transactions and Toll Revenue by Month

More specifically, the 2008 data provided an original demand of 67,760,994 toll transactions, a base revenue of \$77,840,046 for the year 2008, and an average toll of \$1.15. Moreover, the new toll was set to be \$1.27 or 10% higher than the 2008 average toll. It should be further noted that although the 2009 data was available, the data used for the I-93 analysis was from 2007 and it was used to maintain consistency.

Mathematically, the equation is:  $\epsilon = \frac{\text{Old Demand} - \text{New Demand}}{\frac{\text{Old Demand}}{\text{Old Price} - \text{New Price}}}$ . Substituting constant

numbers, the equation is:  $\epsilon = \frac{67,760,994 - \text{New Demand}}{\frac{67,760,994}{1.15 - 1.27}}$ . In order to demonstrate the impact of

a varying elasticity, new demands were calculated for each elasticity value of -0.05 to -0.2 with increments of 0.05. Below are the calculated demands with the appropriate  $\epsilon$ .

$\epsilon = -0.05$

$$-0.05 = \frac{\frac{67,760,994 - \text{New Demand}}{67,760,994}}{\frac{1.15 - 1.27}{1.15}}$$

*New Demand = 67,407,458 toll transactions*

*New Revenue = \$1.27 \* 67407458 = \$85,607,471/year*

$$\varepsilon = -0.10$$

$$-0.10 = \frac{\frac{67,760,994 - \text{New Demand}}{67,760,994}}{\frac{1.15 - 1.27}{1.15}}$$

*New Demand = 67,053,900 toll transactions*

*New Revenue = \$1.27 \* 67053900 = \$85,158,453/year*

$$\varepsilon = -0.15$$

$$-0.15 = \frac{\frac{67,760,994 - \text{New Demand}}{67,760,994}}{\frac{1.15 - 1.27}{1.15}}$$

*New Demand = 66,700,387 toll transactions*

*New Revenue = \$1.27 \* 66700387 = \$84,709,491/year*

$$\varepsilon = -0.20$$

$$-0.20 = \frac{\frac{67,760,994 - \text{New Demand}}{67,760,994}}{\frac{1.15 - 1.27}{1.15}}$$

*New Demand = 66,346,851 toll transactions*

*New Revenue = \$1.27 \* 66346851 = \$84,260,500/year*

Given a varying elasticity from -0.05 to -0.2, the revenue fluctuates from approximately \$85.6 million to \$84.2 million. Since Cambridge Systematics calculated an elasticity of -0.06, it would be appropriate to consider the second elasticity of -0.1 in order to conservatively estimate revenue.

Elasticity	$\epsilon = -0.05$		$\epsilon = -0.10$	
	Base	Forecasted	Base	Forecasted
Demand	67,760,994	67,407,458	67,760,994	67,053,900
Revenue	\$77,925,143	\$85,607,471	\$77,925,143	\$85,158,453
Elasticity	$\epsilon = -0.15$		$\epsilon = -0.20$	
	Base	Forecasted	Base	Forecasted
Demand	67,760,994	66,700,387	67,760,994	66,346,851
Revenue	\$77,925,143	\$84,709,491	\$77,925,143	\$84,260,500

**Table 2. Demand and Revenue for the Boston Extension**

### 5.1.2 Mass Turnpike: Western Portion

The Central Transportation Planning Staff provided corridor counts for all major highways surrounding the Boston metropolitan area. These corridor counts include a portion of the tolled Massachusetts’ Turnpike (Interstate 90 or I90) as well the untolled Interstate 93 (or I93). Since all the toll based approach alternatives examined include I90, our primary focus was to create an appropriate method to estimate revenues based on the data provided. Since I90’s tolling scheme is based primarily on distance, Origin-Destination (O-D) tables were needed to generate accurate estimates of revenue; however, CTPS provided volume counts rather than the coveted O-D tables. In order to circumvent the lack of O-D tables, the toll level from exits 11 to 14 was used as an “average” toll. Therefore, the revenues estimated below for the Massachusetts’ Turnpike (Eastbound), should be considered to be *very* conservative values.

In order to more accurately approximate revenues, the analysis of the Turnpike was split into the eastbound and westbound directions.

### 5.1.2.1 Eastbound Direction

First, the eastbound direction was considered. Since the volume on the Turnpike increased as motorists traveled towards Boston, the only exit volume data considered was at exit 14 (the last exit before the start of the Boston Extension, which was analyzed separately above). In this instance, it was assumed that the old price of the exit toll was \$1.10 and that a 10% increase in that price would be \$1.21. Furthermore, in order to showcase the impacts of a varying elasticity, several elasticity values were used in order to generate new demands as well as revenues. The average volume (per day) on I90 eastbound at exit 14 was 46,233 vehicles. The demand calculations for different elasticities are shown below.

In this analysis, epsilon,  $\varepsilon = \frac{\frac{46233-x}{1.10-1.21}}{1.10}$ , where  $x$  represents the New Demand. Elasticity values of -0.05, -0.10, -0.15, and -0.20 were used to calculate different  $x$ 's.

$$\varepsilon = -0.05$$

$$-0.05 = \frac{\frac{46233 - x}{1.10 - 1.21}}{1.10}$$

$$\text{New Demand} = 46002$$

$$\text{Average Daily Revenue} = \$55,662/\text{day}$$

$$\varepsilon = -0.10$$

$$-0.10 = \frac{\frac{46233 - x}{46233}}{\frac{1.10 - 1.21}{1.10}}$$

$$\text{New Demand} = 45771$$

$$\text{Average Daily Revenue} = \$55,383/\text{day}$$

$$\varepsilon = -0.15$$

$$-0.15 = \frac{\frac{46233 - x}{46233}}{\frac{1.10 - 1.21}{1.10}}$$

$$\text{New Demand} = 45540$$

$$\text{Average Daily Revenue} = \$55,103/\text{day}$$

$$\varepsilon = -0.20$$

$$-0.20 = \frac{\frac{46233 - x}{46233}}{\frac{1.10 - 1.21}{1.10}}$$

$$\text{New Demand} = 45308$$

$$\text{Average Daily Revenue} = \$54,823/\text{day}$$

To show that the above values were considered liberal, a link-by-link analysis of the eastbound segment was done. In a link-by-link analysis, it was considered that each segment of roadway has a toll level – in this case the toll is the original toll that is charged if a motorist were to enter and exit the turnpike at each entry and exit point (respectively). Tables 3 through 6 summarize this analysis.

Exit 11 to Exit 11a:

Original Demand: 33219

Original Price: \$0.45

New Price: \$0.50

Elasticity Value	$\epsilon = -0.05$	$\epsilon = -0.10$	$\epsilon = -0.15$	$\epsilon = -0.20$
New Demand	33035	32850	32665	32481
Estimated Revenue/ day	\$16352	\$16261	\$16169	\$16078

**Table 3. Demand and Revenue Values for I-90E Exit 11 to 11a**

Exit 11a to Exit 12:

Original Demand: 36027  
Original Price: \$0.25  
New Price: \$0.28

Elasticity Value	$\epsilon = -0.05$	$\epsilon = -0.10$	$\epsilon = -0.15$	$\epsilon = -0.20$
New Demand	35811	35595	35379	35162
Estimated Revenue/ day	\$9848	\$9789	\$9729	\$9670

**Table 4. Demand and Revenue Values for I-90E Exit 11a to 12**

Exit 12 to Exit 13:

Original Demand: 40000  
Original Price: \$0.30  
New Price: \$0.33

Elasticity Value	$\epsilon = -0.05$	$\epsilon = -0.10$	$\epsilon = -0.15$	$\epsilon = -0.20$
New Demand	39800	39600	39400	39200
Estimated Revenue/ day	\$13134	\$13068	\$13002	\$12936

**Table 5. Demand and Revenue Values for I-90E Exit 12 to 13**

Exit 13 to Exit 14:

Original Demand: 46233  
Original Price: \$0.30  
New Price: \$0.33

Elasticity Value	$\epsilon = -0.05$	$\epsilon = -0.10$	$\epsilon = -0.15$	$\epsilon = -0.20$
New Demand	46002	45771	45540	45308
Estimated Revenue/ day	\$15181	\$15104	\$15028	\$14952

**Table 6. Demand and Revenue Values for I-90E Exit 13 to 14**

It can then be assumed that the average daily revenue for this portion of the Massachusetts' Turnpike using a link-by-link analysis would be \$54,515 for an elasticity value of -0.05, \$54,222 for an elasticity value of -0.1, \$53,929 for an elasticity value of -

0.15, and \$53,635 for an elasticity value of -0.2. In the link-by-link analysis, the average daily revenue was smaller than the aggregate data used above. Table 7 summarizes this analysis.

Elasticity Value	$\epsilon = -0.05$	$\epsilon = -0.10$	$\epsilon = -0.15$	$\epsilon = -0.20$
Aggregate Revenue	\$55,662	\$55,383	\$55,103	\$54,823
Link-by-link Revenue	\$54,515	\$54,222	\$53,929	\$53,635

**Table 7. Side by Side Revenue Analysis**

In order to make a comparison between the current toll prices and the proposed toll prices, current revenues for Exit 11 to Exit 14 were approximated. In order to estimate these toll revenues, the link volume was multiplied by the toll price. Table 8 gives a summary of the original revenue values.

Original Values - I90E			
Eastbound	Volume	Toll Price	Revenue
Exit 11 to 11a	33219	\$0.45	14949
Exit 11a to 12	36027	\$0.25	9007
Exit 12 to 13	40000	\$0.30	12000
Exit 13 to 14	46233	\$0.30	13870
Total Revenue			\$49,825

**Table 8. Original Revenue I-90E**

As shown in the analysis, the proposed increase in tolls would result in an increase of \$4,000 per day or approximately \$1 million per year for eastbound weekday toll transactions.

### 5.1.2.2 Westbound Direction



On the Massachusetts' Turnpike Westbound, the similar calculations were done. In this case, as motorists headed west towards the New York state border, they exited the turnpike, which allowed for a higher understanding of the data. Below is the general formula of the calculations done for a portion of the Massachusetts' Turnpike westbound.

Like the analysis done for the eastbound direction of the turnpike and the Boston Extension, several elasticity values were used to calculate approximates for the New Demand. As before, epsilon,  $\epsilon$ , was set equal to the percent change in demand over the percent change in price. The equation was written as  $\epsilon = \frac{\frac{Old\ Demand - New\ Demand}{Old\ Demand}}{\frac{Old\ Price - New\ Price}{Old\ Price}}$ . From there, constant values were substituted which yielded a more condensed equation. The revenues calculated below provide a conservative estimate of potential revenue if the toll price along the turnpike were to increase by 10%.

Below, Tables 9 through 12 summarize the estimated revenues and new demand for each exit.

Exit 14 to Exit 13:

Original Demand: 48356  
 Original Price: \$0.30  
 New Price: \$0.33

Elasticity Value	$\epsilon = -0.05$	$\epsilon = -0.10$	$\epsilon = -0.15$	$\epsilon = -0.20$
New Demand	48114	47872	47631	47389
Estimated Revenue/ day	\$15878	\$15798	\$15718	\$15638

**Table 9. Demand and Revenue Values for I-90W Exit 14 to 13**

Exit 13 to Exit 12:

Original Demand: 41027  
 Original Price: \$0.30  
 New Price: \$0.33

Elasticity Value	$\epsilon = -0.05$	$\epsilon = -0.10$	$\epsilon = -0.15$	$\epsilon = -0.20$
New Demand	40822	40617	40412	40207

Estimated Revenue/ day	\$13471	\$13404	\$13336	\$13268
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**Table 10. Demand and Revenue Values for I-90W Exit 13 to 12**

Exit 12 to Exit 11:

Original Demand: 35822  
Original Price: \$0.25  
New Price: \$0.28

Elasticity Value	$\epsilon = -0.05$	$\epsilon = -0.10$	$\epsilon = -0.15$	$\epsilon = -0.20$
New Demand	35607	35392	35177	34962
Estimated Revenue/ day	\$9792	\$9733	\$9674	\$9615

**Table 11. Demand and Revenue Values for I-90W Exit 12 to 11**

Exit 11 to Exit 11A:

Original Demand: 33219  
Original Price: \$0.45  
New Price: \$0.50

Elasticity Value	$\epsilon = -0.05$	$\epsilon = -0.10$	$\epsilon = -0.15$	$\epsilon = -0.20$
New Demand	33035	32850	32665	32481
Estimated Revenue/ day	\$16352	\$16261	\$16169	\$16078

**Table 12. Demand and Revenue Values for I-90W Exit 11 to 11a**

It can then be assumed that the average daily revenue for this portion of the Massachusetts' Turnpike would be \$55,493 for an elasticity value of -0.05, \$55,195 for an elasticity value of -0.1, \$54,897 for an elasticity value of -0.15, and \$54,599 for an elasticity value of -0.2. Table 13 summarizes these findings.

Elasticity Value	$\epsilon = -0.05$	$\epsilon = -0.10$	$\epsilon = -0.15$	$\epsilon = -0.20$
Estimated Revenue/ day	\$55,493	\$55,195	\$54,897	\$54,599

**Table 13. Total (Western Portion) Estimated Revenue for I-90W**

As before, in order to effectively analyze the positive outcome of increasing the tolls on the Massachusetts' Turnpike by 10%, the original revenue needed to be

calculated. Table 14 provides a summary of the link revenues as well as the total estimated revenue for Exit 11 through Exit 14.

Original Values – I90W			
Westbound	Volume	Toll Price	Revenue
Exit 11 to 11a	33219	\$0.45	14949
Exit 11a to 12	35822	\$0.25	8956
Exit 12 to 13	41027	\$0.30	12308
Exit 13 to 14	48356	\$0.30	14507
Total Revenue			\$50,719

**Table 14. Current Volume and Revenues for I-90W**

As shown in the analysis, the proposed increase in tolls would result in an increase of \$4,000 per day or approximately \$1 million per year for westbound weekday toll transactions.

### **5.1.2.3 Comparison**

The revenues and volumes presented above can be converted into daily averages or yearly averages, without becoming too uncertain. The yearly estimates are more accurate because they were converted by Cambridge Systematics, a company which has access to better and more accurate data. Converting daily averages to yearly averages would be a little more complex because it cannot be assumed that the roadway volume on a weekday is comparable to the roadway volume on a weekend or holiday.

The Westbound and Eastbound average revenues appear to be comparable. The average daily revenue for each direction falls between \$54,000 and \$56,000 per day. On March 29, 2010, the Massachusetts’ Turnpike Authority released, “Western Turnpike

Revenue Bonds” which is a document that reported the annual revenue generated by the Massachusetts’ Turnpike for the fiscal year that ended on June 30, 2009. The report stated that for Exit 1 to Exit 15 on the Turnpike about \$110,773,000 was generated in 2008-2009. The gap between the revenues estimated in this research and the revenues reported by the Turnpike cannot be directly compared because the revenues reported by the Turnpike account for Exit 1 through Exit 15, whereas this research only considers Exit 11 through Exit 14.

### **5.1.3 Interstate 93**

In order to estimate the anticipated revenues on Interstate 93, a freeway that runs North/South through the Boston Metropolitan area, the adjusted 2007 corridor counts provided by the Central Transportation Planning Staff (CTPS) were used. Since the data from CTPS was based on a 250 day year (including only “work” days), the data needed to be adjusted to include 365 days (a full non-leap year). In order to appropriately adjust the data, the individual corridor count sections were multiplied (i.e. North of route 129, North of Exit 16, etc.) by 250 and then divided that number by 365. More explicitly, the equation below was used:

$$\frac{y_i \times 250}{365}$$

Where  $y_i$  is the corridor count on section of road under consideration. Moreover, due to the fact that it is being suggested that collection ramps be installed at each exit north of Route 3 and south of Route 28, the exit ramp demand was calculated using the adjusted CTPS data. More specifically, if traffic was moving Northbound towards Route 28, the calculations started with the corridor count from the Braintree Split and subtracted

the following exit from the previous exit (i.e. The corridor count of exit 15 was subtracted from exit 14), in most cases this yielded a positive number. A positive number indicated an increase in volume; a negative number indicated a decrease in volume. It should be noted that negative numbers were discarded and not used in any revenue summations.

Using the adjusted corridor counts provided by CTPS and approximated elasticities, the demand changes on Interstate 93 were estimated for when a toll is collected. Since Interstate 93 is not currently tolled, an arc elasticity was used rather than a standard elasticity calculation. In using an arc elasticity, the nontrivial issue of dividing by 0 was circumvented. The equations for a standard elasticity (the one used for the Massachusetts' Turnpike analysis) and an arc elasticity are shown below:

$$\varepsilon_{standard} = \frac{\frac{Old\ Demand - New\ Demand}{Old\ Demand}}{\frac{Old\ Price - New\ Price}{Old\ Price}}$$

$$\varepsilon_{arc_{i+1}} = \frac{\frac{(New\ Demand)_{i+1} - (Old\ Demand)_i}{(New\ Demand)_{i+1}}}{\frac{(New\ Price)_{i+1} - (Old\ Price)_i}{(New\ Price)_{i+1}}}$$

As you can see from  $\varepsilon_{standard}$  the “Old Price” divides the difference of the “New Price” but in this situation the “Old Price” is zero. In order to best approximate the change in demand an iterative method was needed.

Statement of Method:

*Step 1:* Let  $i = 0$

Step 2: Find  $ND_i = f(OP_i, NP_i, OD_i)$

Step 3:  $OD_{i+1} = ND_i$

Step 4:  $i = i + 1$

Step 5 (if necessary): Go to Step 1

To better illustrate this approach, an epsilon,  $\varepsilon = -0.05$  and the values in Table 15 were considered.

$i$	$OP_i$ Old Price	$NP_i$ New Price	$OD_i$ Old Demand	$ND_i$ New Demand
0	\$0.00	\$0.01	10000	$ND_0 (= OD_1)$
1	\$0.01	\$0.02	$OD_1$	$ND_1$

**Table 15. Calculation Analysis, Step 1**

Solve for  $ND_0$ :

$$-0.05 = \frac{\frac{ND_0 - 10000}{ND_0}}{\frac{\$0.01 - \$0.00}{\$0.01}}$$

Therefore:

$$ND_0 \approx 9524$$

It then follows that Table 15 (now Table 16) can be filled in as such:

$i$	Old Price	New Price	Old Demand	New Demand
0	\$0.00	\$0.01	10000	9524
1	\$0.01	\$0.02	9524	$ND_1$

**Table 16. Calculation Analysis, Step 2**

Solve for

$$-0.05 = \frac{\frac{ND_1 - 9524}{ND_1}}{\frac{\$0.02 - \$0.01}{\$0.02}}$$

Like before, it can be seen:

$$ND_1 \approx 9292$$

From there the calculations are completed and compiled into Table 17:

<i>i</i>	Old Price	New Price	Old Demand	New Demand
0	\$0.00	\$0.01	10000	9524
1	\$0.01	\$0.02	9524	9292

**Table 17. Calculation Analysis, Final**

Prior to the research, it was expected that implementing tolls on Interstate 93 would significantly reduce demand – the analysis supports our original hypothesis. The manner in which the data was originally presented was disjoint. CTPS looked at link volumes for Interstate 93 (in the north and south direction) north and south of Boston. Since it was proposed that users entering or leaving Boston would have to pay a \$1.00 toll, which means that for each Table 18 through 25 a user is expected to pay the toll, regardless if they were already counted in a previous table in which the roadway was going the same direction. Additionally, unlike the analysis done for the Massachusetts’ Turnpike, after the first link, the difference in volume (among the following) was only considered, to avoid double counting.

The same method of analysis (as shown above) was applied to the Interstate 93 data for multiple elasticity values and exits. The appendix includes a detailed summary of the iterative analysis done for Interstate 93. Additionally in Tables 21 through 25, the effects of congestion pricing during the AM Peak hour was analyzed. A summary of all the data analysis for I-93 is presented in Tables 18 through 25. It should be noted that all values are considered to be daily estimates.

First, Interstate 93 Northbound, both north and south of Boston were analyzed. Then, Interstate 93 Southbound, both north and south of Boston were analyzed. After that analysis was done, the morning peak volumes were analyzed to measure the effects of congestion pricing during that peak period. The original demand for each link is in parenthesis next to the link location. It was found that there was a huge reduction in

demand as the absolute value of the elasticity increased. In the calculations, to avoid double and triple counting vehicles, it was necessary to use the link volume from the first link and subtracted it from the total volume on the second link – this method was continued until the last link in the chain was reached. Therefore, in the revenue analysis negative demand values were not considered because it meant that more vehicles were exiting the facility than entering them and unfortunately there was no way to extract that information from the data provided.

<b>I93N (South of Boston)</b>				
<b>Location</b>	<b>Elasticity value</b>			
	<b>-0.05</b>	<b>-0.1</b>	<b>-0.15</b>	<b>-0.2</b>
SE Expwy @ Braintree Split (67041)	51854	40260	31370	24525
north of Route 28 (4158)	3216	2497	1946	1521
SE Expwy n. of Exit 14 (719)	556	432	336	263
SE Expwy n. of Exit 15 (6603)	5107	3965	3090	2416
SE Expwy n. of Exit 16 (-5233)	-4048	-3143	-2449	-1914
Total	\$60733	\$47154	\$36742	\$28725

**Table 18. New Demand for I-93N (South of Boston)**

<b>I93N (North of Boston)</b>				
<b>Location</b>	<b>Elasticity value</b>			
	<b>-0.05</b>	<b>-0.1</b>	<b>-0.15</b>	<b>-0.2</b>
South of Exit 30 (53236)	41176	31970	24911	19475
South of Exit 32 (11428)	8839	6863	5347	4181
South of Exit 33 (979)	757	588	458	358
Stoneham TL (1295)	1002	778	606	474
South of Exit 36 (3134)	2424	1882	1466	1146
South of Rt 129 (-10284)	-7954	-6176	-4812	-3762
Total	\$54198	\$42081	\$32788	\$25634

**Table 19. New Demand for I-93N (North of Boston)**



<b>I93S (South of Boston)</b>				
<b>Location</b>	<b>Elasticity value</b>			
	<b>-0.05</b>	<b>-0.1</b>	<b>-0.15</b>	<b>-0.2</b>
SE Expwy n. of Exit 16 (63014)	48739	37842	29486	23052
SE Expwy n. of Exit 15 (15315)	11846	9197	7166	5603
SE Expwy n. of Exit 14 (-2291)	-1772	-1376	-1072	-838
north of Route 28 (-4435)	-3430	-2663	-2075	-1622
SE Expwy @ Braintree Split (-740)	-572	-444	-346	-271
<b>Total</b>	<b>\$60585</b>	<b>\$47039</b>	<b>\$36652</b>	<b>\$28655</b>

**Table 20. New Demand for I-93S (South of Boston)**

<b>I93S (North of Boston)</b>				
<b>Location</b>	<b>elasticity value</b>			
	<b>-0.05</b>	<b>-0.1</b>	<b>-0.15</b>	<b>-0.2</b>
South of Rt 129 (60801)	47027	36513	28450	22242
South of Exit 36 (9312)	7203	5592	4357	3407
Stoneham TL (-3216)	-2487	-1931	-1505	-1176
South of Exit 33 (-1476)	-1142	-886	-691	-540
South of Exit 32 (-3366)	-2603	-2021	-1575	-1231
South of Exit 30 (-9353)	-7234	-5617	-4377	-3422
<b>Total</b>	<b>\$54230</b>	<b>\$42105</b>	<b>\$32807</b>	<b>\$25649</b>

**Table 21. New Demand for I-93S (North of Boston)**

<b>I93S (North of Boston) – Congestion</b>				
<b>Location</b>	<b>Elasticity value</b>			
	<b>-0.05</b>	<b>-0.1</b>	<b>-0.15</b>	<b>-0.2</b>
South of Rt 129 (15305)	11599	8825	6738	5161
South of Exit 36 (-1747)	-1324	-1007	-769	-589
Stoneham TL (-935)	-709	-539	-412	-315
South of Exit 33 (226)	171	130	99	76
South of Exit 32 (-630)	-477	-363	-277	-212
South of Exit 30	-1171	-891	-680	-521

(-1545)				
<b>I93S (North of Boston) – Congestion</b>				
<b>Location</b>	<b>Revenues (in dollars)</b>			
	<b>-0.05</b>	<b>-0.1</b>	<b>-0.15</b>	<b>-0.2</b>
South of Rt 129	17399	13237	10106	7742
South of Exit 36	-1986	-1511	-1154	-884
Stoneham TL	-1063	-809	-617	-473
South of Exit 33	257	195	149	114
South of Exit 32	-716	-545	-416	-319
South of Exit 30	-1756	-1336	-1020	-782
Total	17656	13432	10256	7856

**Table 22. New Demand and Revenue during the AM Peak for I-93S (North of Boston)**

<b>I93N (North of Boston) -- Congestion</b>				
<b>Location</b>	<b>Elasticity value</b>			
	<b>-0.05</b>	<b>-0.1</b>	<b>-0.15</b>	<b>-0.2</b>
South of Rt 129 (7171)	-1988	-1512	-1155	-885
South of Exit 36 (2507)	1168	889	678	520
Stoneham TL (247)	1015	772	589	452
South of Exit 33 (1339)	187	142	109	83
South of Exit 32 (1541)	1900	1445	1104	845
South of Exit 30 (-2623)	5435	4135	3157	2418
<b>I93N (North of Boston) -- Congestion</b>				
<b>Location</b>	<b>Revenues (in dollars)</b>			
	<b>-0.05</b>	<b>-0.1</b>	<b>-0.15</b>	<b>-0.2</b>
South of Rt 129	-2982	-2269	-1732	-1327
South of Exit 36	1752	1333	1018	780
Stoneham TL	1522	1158	884	677
South of Exit 33	281	214	163	125
South of Exit 32	2850	2168	1655	1268
South of Exit 30	8152	6202	4735	3627
Total	14557	11075	8456	6477

**Table 23. New Demand and Revenue during the AM Peak for I-93N (North of Boston)**

<b>I93S (South of Boston) -- Congestion</b>				
<b>Location</b>	<b>Elasticity value</b>			
	<b>-0.05</b>	<b>-0.1</b>	<b>-0.15</b>	<b>-0.2</b>
SE Expwy @ Braintree Split (9589)	7267	5529	4221	3234

north of Route 28 (1969)	1492	1135	867	664
SE Expwy n. of Exit 14 (-1120)	-849	-646	-493	-378
SE Expwy n. of Exit 15 (2853)	2162	1645	1256	962
SE Expwy n. of Exit 16 (-3103)	-2352	-1789	-1366	-1046
<b>I93S (South of Boston) -- Congestion</b>				
<b>Location</b>	<b>Revenues (in dollars)</b>			
	<b>-0.05</b>	<b>-0.1</b>	<b>-0.15</b>	<b>-0.2</b>
SE Expwy @ Braintree Split	10901	8293	6332	4851
north of Route 28	2238	1703	1300	996
SE Expwy n. of Exit 14	-1273	-969	-740	-567
SE Expwy n. of Exit 15	3243	2467	1884	1443
SE Expwy n. of Exit 16	-3528	-2684	2049	1570
Total	16383	12464	9516	7290

**Table 24. New Demand and Revenue during the AM Peak for I-93S (South of Boston)**

<b>I93N (South of Boston) -- Congestion</b>				
<b>Location</b>	<b>Elasticity value</b>			
	<b>-0.05</b>	<b>-0.1</b>	<b>0.15</b>	<b>-0.2</b>
SE Expwy @ Braintree Split (13483)	10219	7774	5936	4547
north of Route 28 (634)	480	366	279	214
SE Expwy n. of Exit 14 (589)	446	340	259	199
SE Expwy n. of Exit 15 (1373)	1041	792	604	463
SE Expwy n. of Exit 16 (-17)	-13	-10	-7	-6
<b>I93N (South of Boston) -- Congestion</b>				
<b>Location</b>	<b>Revenues (in dollars)</b>			
	<b>-0.05</b>	<b>-0.1</b>	<b>0.15</b>	<b>-0.2</b>
SE Expwy @ Braintree Split	15328	548	419	321
north of Route 28	721	548	419	321
SE Expwy n. of Exit 14	670	509	389	298
SE Expwy n. of Exit 15	1561	1187	907	695
SE Expwy n. of Exit 16	-19	-15	-11	-9
Total	18279	2794	2133	1634

**Table 25. New Demand and Revenue during the AM Peak for I-93N (South of Boston)**

#### **5.1.4 Turnpike Application**

In order to test the veracity of the method proposed above, the same iterative method was applied to an exit on the Massachusetts' Turnpike. For the analysis, Exit 11

to 11a on the Massachusetts’ Turnpike (in the eastbound direction) was used. All parameters and base numbers used previously were once again used.

As depicted in Table 26, below, the new and original methods were compared. The new method yielded a higher value for new demand for all values of  $\epsilon$ ; however, the percent difference between the two methods at its highest is only 1.5% — relatively small when other factors are taken into consideration. This comparison supports the notion that the iterative calculations using the arc elasticity and the corresponding results may be considered to be reasonable.

It should be noted that one of the main differences between the analysis for this exit on the Massachusetts’ Turnpike and the analysis done for Interstate 93 is that the first “Old Price” in the iterative method was \$0.45, rather than \$0.00 (the value that had been used for Interstate 93). If the “Old Price” had been set to \$0.00, as it was in previous calculations, the demand decrease would have been significant. Furthermore, since the original and new methods yield almost the same demand values, using \$0.45 as the original “Old Price” it can be concluded that the calculations in both cases for Interstate 90 and 93 were done in a reasonable manner and that the higher decrease in demand estimated for Interstate 93 may be reasonable.

Exit 11 to Exit 11a:

Original Demand: 33219

Original Price: \$0.45

New Price: \$0.50

	<b>Elasticity Value</b>			
	$\epsilon = -0.05$	$\epsilon = -0.10$	$\epsilon = -0.15$	$\epsilon = -0.20$
<b>Original Method</b>	33035	32850	32665	32481
<b>New Method</b>	33079	33046	33012	32979

<b>Difference</b>	44	196	347	498
<b>Percent Diff.</b>	0.13%	0.59%	1.07%	1.53%

**Table 26. Side by Side Comparison of the Two Methods**

## **5.2 Contributions of the Research**

The results of the research will better serve state DOT officials in understanding how tolls can be used as a tool in transportation finance. Toll roads have been used as a source of transportation finance for more than 50 years, but still there are states in the continental U.S. that do not have any tolled roadways. Literature shows that in locations where tolls are currently used, users are looking for better technology and faster collection. In locations where toll roads are non-existent, high speed toll roads and all electronic toll payment systems are being considered as an alternative transportation finance approach.

It should be noted that installing toll roads on roadways that are not currently tolled can have mixed effects. For example, in some instances the roadway users will accept that they need to pay the toll and demand will not change. On the other hand, many roadways users may switch to other roadways where tolls are not charged and demand on these other roads may decrease significantly. Furthermore, as roadway users switch to an alternate route, the roadways in which they choose to relocate are usually not designed to handle increased demand. What may happen is that users would initially switch routes, but the increase in travel time as well as inconvenience would direct them back to the newly tolled highway. As such, demand on the newly tolled highway may not significantly decrease as time went on. It goes without saying that revenue will increase because there was no generated revenue in the first place.

More specifically, on Interstate 93, it was believed that users will use alternative routes to reach their destination. As such, their new route choice could be examined to see if: a) they are in fact switching routes; b) choosing to commute at off-peak times (in the case where congestion pricing is implemented); and finally c) carpooling with co-workers and acquaintances to reduce traveling expenses. Gathering political support and public acceptance to implement tolls on a roadway such as Interstate 93 is expected to be a challenge for State DOT officials because the notion of installing tolls on roads that are not currently tolled may raise a lot of questions.

In raising toll prices on Interstate 90, revenue would also be expected to increase. As shown in the literature, the roads that typically demonstrate a severe decrease in demand when tolls are raised are roads that were not previously tolled. Although demand may fluctuate on Interstate 90, revenue on the roadway is expected to increase which is supported with CTPS data for the MassPike. Moreover, many users who choose to utilize a different facility in response to the toll increase on the MassPike may revert back to the MassPike due to convenience and faster travel times.

## CHAPTER VI

### CONCLUSIONS AND RECOMMENDATIONS

The current economic climate serves as an open forum to consider alternative financing approaches for surface transportation. As discussed in the literature, tolling is a major finance approach available to State DOTs to support surface transportation investments. Present trends indicate that toll roads are sustainable financing approaches. Although not referenced in this paper, a vehicle-miles traveled fee or a VMT fee has been suggested as a viable substitute to the gas tax. The current gas tax has been recognized by many researchers and economists as a financing method that is losing its purchasing power -- as the number of hybrid cars increases, the gas tax becomes more ineffective. Another alternative used to support surface transportation investments has been the sales tax (in some states). Using the sales tax to fund surface transportation investments is a complicated issue because people want their taxes to be used in investments that relate to them – not everyone drives. Additionally, other sources imply that a financing approach including many different innovative financing schemes should be considered.

Not only should current toll levels be increased, to remain on par with inflation, but innovative pricing strategies should be employed to reduce congestion during peak hours as well as create a greener transportation system. In employing effective and innovative pricing strategies, congestion on roadways such as Interstate 93, previously discussed, would create a more enjoyable travel experience for the user, generate revenue for the state, and reduce idle time for users (i.e. reducing CO2 emissions).

In employing innovative technologies, toll collection strategies needed to be considered. In this day and age, the literature suggests and later proves that all-electronic

tolling and “cashless” tolling are strategies being considered by many toll road agencies. Roadway users have two goals: they want to get to their destination without incident and they want to do that quickly -- all-electronic tolling better allows users to achieve their goals.

Massachusetts, like most states, is in the middle of an economic decline – especially when it comes to financing transportation while at the same time the State DOT is looking for ways to generate additional revenue for transportation investments. Increasing the tolls on the Massachusetts’ Turnpike and implementing tolls on Interstate 93 are viable alternatives to pave way for improvements and new development to transportation infrastructure in the commonwealth. In a place where snow falls can accumulate to more than 40 inches in one month, there needs to money to offset the damaging effects of the weather – implementing the alternatives proposed above can help remedy these hardships. The analysis done on Interstate 93 will allow state department of transportation officials a foundation in which they can use to seek clarity when deciding to implement tolls on a roadway that is not currently tolled. Using an iterative arc elasticity, rather than the standard arc elasticity is believed to yield a more accurate approximation when it comes to forecasting new demand on roadways that were not previously tolled. Furthermore, state officials should know that using the point elasticity method (such as the one used for the Massachusetts’ Turnpike) is not a viable option because it leaves the researcher to divide by zero – undefined in mathematics. Furthermore, reflecting on the project demand decrease on Interstate 93, it is expected that a route shift will occur; however, due to the limitations of the data, the alternative routes chosen could not be determined.



Since, the Massachusetts' Turnpike already has tolls and transportation demand is relatively inelastic, increasing the tolls on this roadway, as shown above, would minimally reduce demand while at the same time increase revenue. Most users expect that as inflation increases the cost of living increases as well – they see it everywhere. With the rising cost of oil, produce, taxes, and rent, it is only natural to expect a rise in transportation costs. Looking at the analysis of the Boston Extension, just by increasing the average toll price by 10%, revenues are projected to increase by at least \$6 million for the year AND there will be a reduction in congestion on the heavily traveled Boston Extension. Furthermore, looking at the western/central portion of the Turnpike, revenues are projected to increase as well.

Unlike the Boston Extension, current revenue data for the western portion of Turnpike was not made available so it had to be estimated in a manner similar to that of the analysis. For both the eastbound and westbound directions of the Massachusetts' Turnpike, increasing tolls by 10% could yield at least an increase of approximately \$8,000 per weekday in revenues or approximately \$2,000,000 annually for weekday traffic. If Origin-Destination (OD) tables were available for the entire Western portion of the Turnpike, a more accurate analysis could have been performed. With OD tables, the exact toll price for users would be known and as such be able to better calculate projected revenues.

## APPENDIX

### 93 DATA ANALYSIS

		I93S (south of boston)																			
OP	NP	ND (1)				ND (2)				ND (3)				ND (4)				ND (5)			
		-0.05	-0.1	-0.15	-0.2	-0.05	-0.1	-0.15	-0.2	-0.05	-0.1	-0.15	-0.2	-0.05	-0.1	-0.15	-0.2	-	-0.1	0.15	-0.2
0.0	0.0	6301	6301	6301	6301	1531	1531	1531	1531	-	-	-	-	-	-	-	-	0.05	-0.1	0.15	-0.2
0	1	4	4	4	4	5	5	5	5	2291	2291	2291	2291	4435	4435	4435	4435	-740	740	-740	740
<b>0.0</b>	<b>0.0</b>	6001	5728	5479	5251	1458	1392	1331	1276	-	-	-	-	-	-	-	-	-	-	-	-
<b>1</b>	<b>2</b>	3	5	5	2	6	3	7	3	2182	2083	1992	1909	4224	4032	3857	3696	-705	673	-643	617
0.0	0.0	5855	5455	5097	4773	1423	1326	1238	1160	-	-	-	-	-	-	-	-	-	-	-	-
2	3	0	8	2	8	0	0	8	2	2129	1984	1853	1736	4121	3840	3587	3360	-688	641	-599	561
0.0	0.0	5759	5279	4854	4475	1399	1283	1179	1087	-	-	-	-	-	-	-	-	-	-	-	-
3	4	0	8	5	4	7	2	8	7	2094	1920	1765	1627	4053	3716	3417	3150	-676	620	-570	526
<b>0.0</b>	<b>0.0</b>	5687	5151	4679	4262	1382	1251	1137	1035	-	-	-	-	-	-	-	-	-	-	-	-
<b>4</b>	<b>5</b>	9	0	0	3	4	9	2	9	2068	1873	1701	1550	4003	3625	3293	3000	-668	605	-549	501
0.0	0.0	5631	5050	4542	4098	1368	1227	1104	-	-	-	-	-	-	-	-	-	-	-	-	-
5	6	6	0	7	4	7	4	1	9961	2047	1836	1652	1490	3964	3554	3197	2884	-661	593	-533	481
0.0	0.0	5585	4967	4431	3966	1357	1207	1077	-	-	-	-	-	-	-	-	-	-	-	-	-
6	7	0	2	9	2	4	2	1	9639	2031	1806	1611	1442	3931	3496	3119	2791	-656	583	-520	466
<b>0.0</b>	<b>0.0</b>	5545	4897	4338	3856	1347	1190	1054	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>7</b>	<b>8</b>	4	2	9	0	8	2	5	9372	2016	1780	1578	1402	3903	3447	3054	2714	-651	575	-510	453
0.0	0.0	5511	4836	4259	3761	1339	1175	1035	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9	0	8	1	9	4	5	1	9143	2004	1759	1548	1368	3879	3404	2998	2648	-647	568	-500	442
0.0	0.1	5480	4783	4189	3680	1332	1162	1018	-	-	-	-	-	-	-	-	-	-	-	-	-
9	0	5	6	3	2	0	6	2	8944	1993	1739	1523	1338	3857	3367	2948	2590	-644	562	-492	432
<b>0.1</b>	<b>0.1</b>	5453	4736	4127	3608	1325	1151	1003	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>0</b>	<b>1</b>	3	3	4	0	4	1	1	8769	1983	1722	1501	1312	3838	3333	2905	2539	-640	556	-485	424
0.1	0.1	5428	4693	4071	3543	1319	1140	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	2	6	6	8	6	4	7	9896	8612	1974	1706	1480	1288	3821	3303	2866	2494	-638	551	-478	416
0.1	0.1	5406	4654	4021	3485	1313	1131	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	3	1	8	6	5	9	3	9774	8471	1965	1692	1462	1267	3805	3276	2830	2453	-635	547	-472	409
<b>0.1</b>	<b>0.1</b>	5385	4619	3975	3432	1308	1122	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>3</b>	<b>4</b>	3	3	7	7	9	7	9663	8343	1958	1679	1445	1248	3790	3251	2798	2416	-632	542	-467	403
0.1	0.1	5366	4586	3933	3384	1304	1114	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	5	2	5	5	3	2	7	9560	8225	1951	1668	1430	1230	3777	3228	2768	2382	-630	539	-462	397
0.1	0.1	5348	4556	3894	3339	1299	1107	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	6	3	1	6	8	9	3	9465	8117	1944	1656	1416	1214	3764	3207	2741	2351	-628	535	-457	392
<b>0.1</b>	<b>0.1</b>	5331	4527	3858	3298	1295	1100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>6</b>	<b>7</b>	7	8	4	6	8	5	9378	8017	1938	1646	1403	1199	3753	3187	2716	2322	-626	532	-453	387
0.1	0.1	5316	4501	3824	3260	1292	1094	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	8	1	4	7	2	0	0	9296	7924	1933	1637	1391	1185	3741	3168	2692	2295	-624	529	-449	383
0.1	0.1	5301	4476	3793	3224	1288	1088	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	9	3	5	1	4	4	0	9219	7837	1927	1628	1379	1172	3731	3151	2670	2269	-623	526	-445	379
<b>0.1</b>	<b>0.2</b>	5287	4453	3763	3190	1285	1082	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>9</b>	<b>0</b>	4	1	4	8	1	3	9147	7755	1922	1619	1368	1160	3721	3134	2649	2246	-621	523	-442	375

	0.2	5274	4430	3735	3159	1281	1076			-	-	-	-	-	-	-	-	-	-	-	-	-
0.2	1	2	9	3	2	9	9	9078	7678	1918	1611	1358	1149	3712	3119	2629	2223	-619	520	-439	371	-
0.2	0.2	5261	4409	3708	3129	1278	1071			-	-	-	-	-	-	-	-	-	-	-	-	-
1	2	7	9	9	4	8	8	9014	7606	1913	1603	1348	1138	3703	3104	2610	2203	-618	518	-436	367	-
<b>0.2</b>	<b>0.2</b>	5249	4389	3683	3101	1275	1066			-	-	-	-	-	-	-	-	-	-	-	-	-
<b>2</b>	<b>3</b>	8	9	7	2	9	9	8953	7537	1909	1596	1339	1128	3695	3090	2593	2183	-617	516	-433	364	-
0.2	0.2	5238	4370	3659	3074	1273	1062			-	-	-	-	-	-	-	-	-	-	-	-	-
3	4	4	9	9	5	1	3	8895	7472	1905	1589	1331	1118	3687	3076	2576	2164	-615	513	-430	361	-
0.2	0.2	5227	4352	3637	3049	1270	1057			-	-	-	-	-	-	-	-	-	-	-	-	-
4	5	5	8	1	1	5	9	8840	7410	1901	1583	1322	1109	3679	3064	2560	2146	-614	511	-427	358	-
<b>0.2</b>	<b>0.2</b>	5217	4335	3615	3024	1268	1053			-	-	-	-	-	-	-	-	-	-	-	-	-
<b>5</b>	<b>6</b>	1	5	4	9	0	7	8787	7352	1897	1576	1314	1100	3672	3051	2545	2129	-613	509	-425	355	-
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<b>4</b>	<b>5</b>	5	7	5	1	6	9245	7222	5661	1777	1383	1080	-847	3439	2677	2091	1639	-574	447	-349	274

0.9	0.9	4883	3799	2966	2324	1187															
5	6	9	7	8	2	0	9235	7211	5649	1776	1381	1079	-845	3437	2674	2088	1636	-574	446	-348	273
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6	7	4	8	2	3	4	9225	7199	5637	1775	1380	1077	-843	3436	2672	2085	1632	-573	446	-348	272
<b>0.9</b>	<b>0.9</b>	4878	3791	2957	2314	1185															
<b>7</b>	<b>8</b>	9	9	6	6	8	9216	7188	5625	1774	1379	1075	-842	3434	2669	2082	1629	-573	445	-347	272
0.9	0.9	4876	3788	2953	2309	1185															
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<b>9</b>	<b>0</b>	<b>9</b>	<b>2</b>	<b>6</b>	<b>2</b>	<b>6</b>	<b>9197</b>	<b>7166</b>	<b>5603</b>	<b>1772</b>	<b>1376</b>	<b>1072</b>	<b>-838</b>	<b>3430</b>	<b>2663</b>	<b>2075</b>	<b>1622</b>	<b>-572</b>	<b>444</b>	<b>-346</b>	<b>271</b>

I93N (south of Boston)

OP	NP	ND (1)				ND (2)				ND (3)				ND (4)				ND (5)			
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<b>0.01</b>	<b>0.02</b>	63849	60946	58297	55868	3960	3780	3616	3465	685	654	625	599	6289	6003	5742	5503	-4984	-4757	-4550	-4361
0.02	0.03	62291	58044	54229	50789	3863	3600	3363	3150	668	623	582	545	6135	5717	5341	5002	-4862	-4531	-4233	-3964
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<b>0.04</b>	<b>0.05</b>	60514	54802	49780	45347	3753	3399	3087	2813	649	588	534	486	5960	5398	4903	4466	-4724	-4278	-3886	-3540
0.05	0.06	59915	53727	48330	43603	3716	3332	2998	2704	643	576	518	468	5901	5292	4760	4295	-4677	-4194	-3773	-3403
0.06	0.07	59419	52846	47152	42196	3685	3278	2924	2617	637	567	506	453	5852	5205	4644	4156	-4638	-4125	-3680	-3294
<b>0.07</b>	<b>0.08</b>	58998	52102	46162	41024	3659	3231	2863	2544	633	559	495	440	5811	5132	4547	4041	-4605	-4067	-3603	-3202
0.08	0.09	58632	51459	45313	40024	3636	3192	2810	2482	629	552	486	429	5775	5068	4463	3942	-4577	-4017	-3537	-3124
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<b>0.10</b>	<b>0.11</b>	58018	50389	43911	38386	3598	3125	2723	2381	622	540	471	412	5714	4963	4325	3781	-4529	-3933	-3428	-2996
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<b>0.13</b>	<b>0.14</b>	57295	49145	42298	36520	3554	3048	2623	2265	614	527	454	392	5643	4840	4166	3597	-4472	-3836	-3302	-2851
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<b>0.16</b>	<b>0.17</b>	56724	48172	41050	35094	3518	2988	2546	2177	608	517	440	376	5587	4745	4043	3456	-4428	-3760	-3204	-2739
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<b>0.19</b>	<b>0.20</b>	56253	47376	40039	33947	3489	2938	2483	2105	603	508	429	364	5540	4666	3943	3344	-4391	-3698	-3125	-2650
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<b>0.22</b>	<b>0.23</b>	55853	46705	39191	32994	3464	2897	2431	2046	599	501	420	354	5501	4600	3860	3250	-4360	-3646	-3059	-2575

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<b>0.25</b>	<b>0.26</b>	55505	46125	38465	32182	3442	2861	2386	1996	595	495	413	345	5467	4543	3788	3170	-4333	-3600	-3002	-2512
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<b>0.28</b>	<b>0.29</b>	55197	45616	37830	31476	3423	2829	2346	1952	592	489	406	338	5436	4493	3726	3100	-4309	-3561	-2953	-2457
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<b>0.31</b>	<b>0.32</b>	54922	45163	37268	30855	3406	2801	2311	1914	589	484	400	331	5409	4448	3671	3039	-4287	-3525	-2909	-2408
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<b>0.40</b>	<b>0.41</b>	54236	44043	35892	29346	3364	2732	2226	1820	582	472	385	315	5342	4338	3535	2890	-4234	-3438	-2802	-2291
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<b>0.43</b>	<b>0.44</b>	54043	43730	35510	28931	3352	2712	2202	1794	580	469	381	310	5323	4307	3497	2849	-4218	-3413	-2772	-2258
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<b>0.46</b>	<b>0.47</b>	53863	43440	35157	28549	3341	2694	2181	1771	578	466	377	306	5305	4278	3463	2812	-4204	-3391	-2744	-2228
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<b>0.49</b>	<b>0.50</b>	53695	43169	34830	28195	3330	2677	2160	1749	576	463	374	302	5289	4252	3430	2777	-4191	-3370	-2719	-2201
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<b>0.55</b>	<b>0.56</b>	53389	42679	34238	27558	3311	2647	2124	1709	573	458	367	296	5258	4204	3372	2714	-4167	-3331	-2673	-2151
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<b>0.61</b>	<b>0.62</b>	53116	42243	33716	26999	3294	2620	2091	1675	570	453	362	290	5232	4161	3321	2659	-4146	-3297	-2632	-2107
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<b>0.70</b>	<b>0.71</b>	52755	41671	33033	26272	3272	2584	2049	1629	566	447	354	282	5196	4104	3253	2588	-4118	-3253	-2578	-2051
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<b>0.76</b>	<b>0.77</b>	52540	41332	32631	25847	3259	2563	2024	1603	563	443	350	277	5175	4071	3214	2546	-4101	-3226	-2547	-2018
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<b>0.82</b>	<b>0.83</b>	52342	41021	32264	25460	3246	2544	2001	1579	561	440	346	273	5155	4040	3178	2508	-4086	-3202	-2518	-1987
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<b>0.85</b>	<b>0.86</b>	52248	40875	32091	25279	3241	2535	1990	1568	560	438	344	271	5146	4026	3161	2490	-4078	-3191	-2505	-1973
0.86	0.87	52218	40828	32036	25221	3239	2532	1987	1564	560	438	344	270	5143	4021	3155	2484	-4076	-3187	-2501	-1969
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<b>0.88</b>	<b>0.89</b>	52158	40734	31926	25106	3235	2526	1980	1557	559	437	342	269	5137	4012	3144	2473	-4071	-3180	-2492	-1960
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<b>0.91</b>	<b>0.92</b>	52072	40599	31767	24939	3230	2518	1970	1547	558	435	341	267	5129	3999	3129	2456	-4065	-3169	-2480	-1947
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0.93	0.94	52015	40511	31664	24832	3226	2513	1964	1540	558	434	340	266	5123	3990	3119	2446	-4060	-3162	-2472	-1938
<b>0.94</b>	<b>0.95</b>	51988	40468	31614	24779	3224	2510	1961	1537	558	434	339	266	5120	3986	3114	2441	-4058	-3159	-2468	-1934



0.95	0.96	51960	40426	31564	24727	3223	2507	1958	1534	557	434	339	265	5118	3982	3109	2435	-4056	-3155	-2464	-1930
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<b>0.97</b>	<b>0.98</b>	51907	40342	31466	24625	3219	2502	1952	1527	557	433	337	264	5112	3973	3099	2425	-4052	-3149	-2456	-1922
0.98	0.99	51880	40301	31418	24575	3218	2500	1949	1524	556	432	337	264	5110	3969	3094	2420	-4050	-3146	-2452	-1918
<b>0.99</b>	<b>1.00</b>	<b>51854</b>	<b>40260</b>	<b>31370</b>	<b>24525</b>	<b>3216</b>	<b>2497</b>	<b>1946</b>	<b>1521</b>	<b>556</b>	<b>432</b>	<b>336</b>	<b>263</b>	<b>5107</b>	<b>3965</b>	<b>3090</b>	<b>2416</b>	<b>-4048</b>	<b>-3143</b>	<b>-2449</b>	<b>-1914</b>

I93N (north of  
Boston)

O	N	ND (1)				ND (2)				ND (3)				ND (4)				ND (5)				ND (6)							
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P	P	0.05	-0.1	0.15	-0.2	0.05	-0.1	0.15	-0.2	0.0	0.	0.1	0.	0.0	-	0.1	-	0.0	-	0.1	-	0.0	-	0.1	-	0.05	-0.1	0.15	-0.2
0.0	0.0	532	532	532	532	114	114	114	114		97		97	129	12	129	12	313	31	313	31	1028	1028	1028	1028	-	-	-	-
0	1	36	36	36	36	28	28	28	28	979	9	979	9	5	95	5	95	4	34	4	34	4	4	4	4	4	4	4	4
<b>0.0</b>	<b>0.0</b>	507	483	462	443	108	103	993	952		89		81	123	11	112	10	298	28	272	26	-	-	-	-	-	-	-	-
<b>1</b>	<b>2</b>	01	96	92	63	84	89	7	3	932	0	851	6	3	77	6	79	5	49	5	12	9794	9349	8943	8570	-	-	-	-
0.0	0.0	494	460	430	403	106	989	924	865		84		74	120	11	104	98	291	27	253	23	-	-	-	-	-	-	-	-
2	3	64	92	62	30	18	4	4	8	910	8	792	2	3	21	8	1	2	13	5	74	9555	8904	8319	7791	-	-	-	-
0.0	0.0	486	446	410	378	104	957	880	811		82		69	118	10		92	286	26	241	22	-	-	-	-	-	-	-	-
3	4	53	05	12	10	44	5	4	6	895	0	754	5	4	85	998	0	4	26	4	26	9399	8617	7923	7304	-	-	-	-
<b>0.0</b>	<b>0.0</b>	480	435	395	360	103	934	848	773		80		66	116	10		87	282	25	232	21	-	-	-	-	-	-	-	-
<b>4</b>	<b>5</b>	53	17	30	09	15	2	6	0	884	0	727	2	9	59	962	6	9	62	7	20	9283	8407	7636	6956	-	-	-	-
0.0	0.0	475	426	383	346	102	915	823	743		78		63	115	10		84	280	25	225	20	-	-	-	-	-	-	-	-
5	6	77	64	78	24	13	8	9	3	875	5	706	7	7	38	934	2	1	12	9	38	9191	8242	7414	6689	-	-	-	-
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6	7	84	64	42	07	29	8	8	3	868	2	689	6	8	21	911	5	8	70	4	73	9115	8107	7233	6473	-	-	-	-
<b>0.0</b>	<b>0.0</b>	468	413	366	325	100	888	786	699		76		59	114	10		79	275	24	215	19	-	-	-	-	-	-	-	-
<b>7</b>	<b>8</b>	49	73	57	77	57	1	9	3	862	1	674	9	0	06	892	2	8	36	8	18	9050	7992	7081	6293	-	-	-	-
0.0	0.0	465	408	359	317	999	877	772	682		75		58	113	99		77	274	24	211	18	-	-	-	-	-	-	-	-
8	9	58	63	82	82	4	2	4	3	856	1	662	4	3	4	875	3	1	06	8	71	8994	7894	6951	6140	-	-	-	-
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<b>0.1</b>	<b>0.1</b>	460	400	348	304	989	859	748	654		73		56	112	97		74	271	23	205	17	-	-	-	-	-	-	-	-
<b>0</b>	<b>1</b>	71	13	69	81	0	0	5	3	847	6	641	1	1	3	848	1	2	56	3	94	8900	7730	6736	5888	-	-	-	-
0.1	0.1	458	396	344	299	984	851	738	642		72		55	111	96		72	270	23	202	17	-	-	-	-	-	-	-	-
1	2	62	53	00	37	5	2	5	7	843	9	633	1	6	5	837	8	0	34	5	62	8860	7660	6645	5783	-	-	-	-
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2	3	72	25	75	46	4	2	3	1	840	3	625	2	1	7	826	6	9	15	0	34	8823	7597	6563	5688	-	-	-	-
<b>0.1</b>	<b>0.1</b>	454	390	335	290	976	837	721	622		71		53	110	94		70	267	22	197	17	-	-	-	-	-	-	-	-
<b>3</b>	<b>4</b>	97	25	88	00	7	7	0	5	837	8	618	3	7	9	817	5	8	97	7	07	8789	7539	6488	5602	-	-	-	-
0.1	0.1	453	387	332	285	973	831	713	613		71		52	110	94		69	266	22	195	16	-	-	-	-	-	-	-	-
4	5	35	48	32	92	2	8	4	8	834	3	611	6	3	3	808	6	9	81	6	83	8758	7485	6420	5523	-	-	-	-
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	<b>6</b>	<b>7</b>	44	52	97	67	9	2	8	2	3	2	6	1	8	2	52	9	41	8701	7390	6297	5383			
0.1	0.1		449	380	323	275	964	816	693	591	69	50	109	92	67	264	22	190	16	-	-	-	-			
7	8		11	29	12	43	1	4	6	3	826	9	594	7	3	5	786	0	4	39	2	21	8676	7346	6242	5321
0.1	0.1		447	378	320	272	961	811	687	584	69	50	108	92	66	263	22	188	16	-	-	-	-			
8	9		87	19	45	41	4	8	9	8	824	5	589	1	9	0	780	3	7	26	6	04	8652	7306	6190	5262
<b>0.1</b>	<b>0.2</b>		446	376	317	269	958	807	682	578	69	49	108	91	65	263	22	187	15	-	-	-	-			
<b>9</b>	<b>0</b>		70	21	94	57	9	6	5	7	821	2	585	6	7	5	773	6	0	15	2	87	8629	7267	6142	5207
	0.2		445	374	315	266	956	803	677	572	68	49	108	91	64	262	22	185	15	-	-	-	-			
0.2	1		58	34	57	90	5	6	4	9	819	8	580	1	4	1	768	9	3	04	8	71	8608	7231	6096	5156
0.2	0.2		444	372	313	264	954	799	672	567	68	48	108	90	64	261	21	184	15	-	-	-	-			
1	2		52	56	33	38	2	8	6	5	817	5	576	6	1	6	762	3	7	93	5	56	8587	7197	6053	5107
<b>0.2</b>	<b>0.2</b>		443	370	311	262	952	796	668	562	68	48	107	90	63	261	21	183	15	-	-	-	-			
<b>2</b>	<b>3</b>		51	88	21	00	1	1	1	4	816	2	572	2	9	2	757	7	1	83	2	42	8568	7164	6012	5061
0.2	0.2		442	369	309	259	950	792	663	557	67	47	107	89	63	260	21	182	15	-	-	-	-			
3	4		55	27	20	74	0	7	7	6	814	9	569	8	7	8	752	2	5	74	0	29	8549	7133	5973	5018
0.2	0.2		441	367	307	257	948	789	659	553	67	47	107	89	62	260	21	180	15	-	-	-	-			
4	5		63	74	28	59	0	4	6	0	812	6	565	4	4	5	747	7	0	65	9	16	8531	7104	5936	4976
<b>0.2</b>	<b>0.2</b>		440	366	305	255	946	786	655	548	67	47	107	89	62	259	21	179	15	-	-	-	-			
<b>5</b>	<b>6</b>		75	27	44	55	1	3	7	6	811	4	562	0	2	1	743	2	5	56	8	04	8514	7076	5900	4937
0.2	0.2		439	364	303	253	944	783	651	544	67	46	107	88	61	259	21	178	14	-	-	-	-			
6	7		91	87	69	60	3	3	9	4	809	1	558	6	0	8	739	7	0	48	8	93	8498	7048	5867	4899
0.2	0.2		439	363	302	251	942	780	648	540	66	46	106	88	61	258	21	177	14	-	-	-	-			
7	8		09	52	01	73	6	4	3	4	807	9	555	3	8	4	735	2	5	40	8	82	8482	7022	5834	4863
<b>0.2</b>	<b>0.2</b>		438	362	300	249	940	777	644	536	66	46	106	88	60	258	21	176	14	-	-	-	-			
<b>8</b>	<b>9</b>		31	23	40	95	9	6	9	6	806	6	552	0	6	1	731	8	0	32	8	71	8467	6997	5803	4828
0.2			437	360	298	248	939	774	641	532	66	45	106	87	60	257	21	175	14	-	-	-	-			
9	0.3		56	98	86	24	3	9	5	9	805	4	550	7	4	8	727	4	6	25	9	61	8453	6973	5773	4795
0.3	0.3		436	359	297	246	937	772	638	529	66	45	106	87	60	257	21	175	14	-	-	-	-			
0	1		83	78	37	59	7	3	4	4	803	2	547	3	3	5	723	0	2	18	1	52	8439	6950	5745	4764
<b>0.3</b>	<b>0.3</b>		436	358	295	245	936	769	635	526	66	45	106	87	59	256	21	174	14	-	-	-	-			
<b>1</b>	<b>2</b>		12	63	94	01	2	9	3	0	802	0	544	1	1	2	720	6	7	11	2	42	8425	6928	5717	4733
0.3	0.3		435	357	294	243	934	767	632	522	65	44	105	87	59	256	21	173	14	-	-	-	-			
2	3		44	51	56	49	8	5	3	7	801	7	542	8	9	0	717	2	3	05	4	33	8412	6906	5690	4704
0.3	0.3		434	356	293	242	933	765	629	519	65	44	105	86	58	256	20	172	14	-	-	-	-			
3	4		78	43	23	02	3	1	5	5	800	5	539	5	8	7	713	9	0	98	6	25	8399	6885	5664	4675
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<b>4</b>	<b>5</b>		15	39	94	61	0	9	7	5	798	4	537	2	6	4	710	5	6	92	9	16	8387	6865	5640	4648
0.3	0.3		433	354	290	239	930	760	624	513	65	44	105	86	58	255	20	171	14	-	-	-	-			
5	6		53	37	69	24	6	7	0	6	797	2	535	0	5	2	707	2	2	86	1	08	8375	6846	5616	4622
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<b>0.3</b>	<b>0.3</b>		432	352	288	236	928	756	618	508	64	43	105	85	57	254	20	169	13	-	-	-	-			
<b>7</b>	<b>8</b>		34	44	32	64	1	6	9	0	795	8	530	5	2	7	701	6	5	75	7	93	8352	6808	5570	4571
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9	0		22	61	08	20	7	7	1	7	793	5	526	1	9	3	696	0	9	64	4	79	8330	6773	5526	4524
<b>0.4</b>	<b>0.4</b>		430	349	285	233	924	750	611	500	64	42	104	85	56	253	20	167	13	-	-	-	-			
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1	2	16	89	97	90	4	9	6	8	2	6	6	9	4	2	54	2	65	8310	6740	5486	4480			
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<b>6</b>	<b>7</b>	72	95	18	70	2	5	3	6	787	4	513	7	0	9	679	1	8	31	4	35	8263	6664	5393	4379
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<b>0.4</b>	<b>0.5</b>	426	342	276	223	915	735	593	480	63	41	103	83	54	251	20	162	13	-	-	-	-			
<b>9</b>	<b>0</b>	38	80	58	89	3	9	7	6	784	0	509	2	7	4	673	5	0	18	8	18	8237	6622	5343	4325
	0.5	425	342	275	223	914	734	591	478	62	41	103	83	54	250	20	162	13	-	-	-	-			
0.5	1	96	12	75	00	4	4	9	7	783	9	507	0	6	2	671	2	8	14	3	13	8229	6609	5327	4308
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<b>2</b>	<b>3</b>	13	79	15	27	6	6	5	0	782	7	504	7	4	9	667	8	3	06	4	03	8213	6583	5296	4275
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<b>5</b>	<b>6</b>	95	90	88	83	1	5	6	8	780	3	500	2	1	4	661	2	6	95	1	88	8190	6547	5252	4227
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<b>8</b>	<b>9</b>	84	13	74	54	7	7	0	8	778	0	496	8	9	0	656	7	9	85	8	75	8168	6513	5211	4183
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9	0.6	48	56	06	81	9	5	6	3	777	9	495	7	8	9	655	5	7	81	4	70	8161	6502	5198	4169
0.6	0.6	422	336	268	215	906	721	576	461	61	39	102	81	52	248	19	158	12	-	-	-	-			
0	1	13	00	39	10	2	3	1	7	776	8	494	6	7	7	653	3	5	78	0	66	8155	6491	5185	4155
<b>0.6</b>	<b>0.6</b>	421	335	267	214	905	720	574	460	61	39	102	81	52	248	19	157	12	-	-	-	-			
<b>1</b>	<b>2</b>	78	45	73	39	4	1	7	2	776	7	492	4	6	6	651	2	3	75	6	62	8148	6480	5172	4142
0.6	0.6	421	334	267	213	904	718	573	458	61	39	102	81	52	248	19	157	12	-	-	-	-			
2	3	44	91	08	70	7	9	3	8	775	6	491	3	5	5	650	0	1	72	2	58	8141	6470	5159	4128
0.6	0.6	421	334	266	213	904	717	572	457	61	39	102	81	51	247	19	156	12	-	-	-	-			
3	4	11	38	45	03	0	8	0	3	774	5	490	2	4	3	648	8	9	68	9	54	8135	6459	5147	4115
<b>0.6</b>	<b>0.6</b>	420	333	265	212	903	716	570	455	61	39	102	81	51	247	19	156	12	-	-	-	-			
<b>4</b>	<b>5</b>	78	85	82	36	3	7	6	9	774	4	489	1	4	2	647	7	7	65	5	50	8129	6449	5135	4102
0.6	0.6	420	333	265	211	902	715	569	454	61	38	102	81	51	247	19	156	12	-	-	-	-			
5	6	46	34	21	71	6	6	3	5	773	3	488	9	3	1	645	5	5	62	1	46	8122	6439	5123	4090
0.6	0.6	420	332	264	211	901	714	568	453	773	61	487	38	102	81	644	51	247	19	155	12	-	-	-	-

6	7	14	84	61	07	9	5	0	1	2	8	2	0	3	3	59	8	43	8116	6430	5112	4077			
<b>0.6</b>	<b>0.6</b>	419	332	264	210	901	713	566	451	61	38	102	80	51	247	19	155	12	-	-	-	-			
<b>7</b>	<b>8</b>	83	34	02	44	2	4	8	8	772	1	486	7	1	8	642	2	2	56	4	39	8110	6420	5100	4065
0.6	0.6	419	331	263	209	900	712	565	450	61	38	102	80	51	247	19	155	12	-	-	-	-			
8	9	52	85	44	83	6	4	5	4	771	0	484	6	1	7	641	0	0	54	1	35	8104	6411	5089	4053
0.6	0.7	419	331	262	209	899	711	564	449	60	38	102	80	50	246	19	154	12	-	-	-	-			
9	0	21	37	87	22	9	3	3	1	771	9	483	5	0	6	639	9	8	51	8	32	8098	6401	5078	4042
<b>0.7</b>	<b>0.7</b>	418	330	262	208	899	710	563	447	60	38	101	80	50	246	19	154	12	-	-	-	-			
<b>0</b>	<b>1</b>	92	90	31	62	3	3	1	8	770	9	482	4	9	5	638	7	6	48	4	28	8092	6392	5067	4030
0.7	0.7	418	330	261	208	898	709	561	446	60	38	101	80	50	246	19	154	12	-	-	-	-			
1	2	62	43	75	04	6	3	9	6	770	8	481	3	8	4	637	6	4	45	1	25	8087	6383	5056	4019
0.7	0.7	418	329	261	207	898	708	560	445	60	38	101	80	50	246	19	153	12	-	-	-	-			
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<b>0.7</b>	<b>0.7</b>	418	329	260	206	897	707	559	444	60	38	101	80	50	246	19	153	12	-	-	-	-			
<b>3</b>	<b>4</b>	04	52	67	90	4	4	6	1	769	6	479	0	7	2	634	3	1	40	5	18	8076	6366	5036	3997
0.7	0.7	417	329	260	206	896	706	558	442	60	37	101	80	50	245	19	153	12	-	-	-	-			
4	5	76	08	15	34	8	4	4	9	768	5	478	9	6	1	633	2	9	37	1	15	8070	6357	5025	3986
0.7	0.7	417	328	259	205	896	705	557	441	60	37	101	79	50	245	19	152	12	-	-	-	-			
5	6	48	64	63	79	2	5	3	8	768	4	477	8	6	9	632	1	8	35	8	11	8065	6349	5015	3975
<b>0.7</b>	<b>0.7</b>	417	328	259	205	895	704	556	440	60	37	101	79	49	245	19	152	12	-	-	-	-			
<b>6</b>	<b>7</b>	21	21	12	25	6	6	2	6	767	4	477	7	5	8	630	9	6	32	5	08	8060	6340	5006	3965
0.7	0.7	416	327	258	204	895	703	555	439	60	37	101	79	49	245	19	152	12	-	-	-	-			
7	8	94	78	61	72	0	6	2	5	767	3	476	6	4	7	629	8	5	30	2	05	8054	6332	4996	3955
0.7	0.7	416	327	258	204	894	702	554	438	60	37	101	79	49	245	19	152	12	-	-	-	-			
8	9	67	36	11	19	5	7	1	3	766	2	475	6	4	6	628	7	3	27	0	02	8049	6324	4986	3945
<b>0.7</b>	<b>0.8</b>	416	326	257	203	893	701	553	437	60	37	101	79	49	245	19	151	11	-	-	-	-			
<b>9</b>	<b>0</b>	41	95	63	68	9	9	0	2	766	1	474	5	3	5	627	5	1	25	7	99	8044	6316	4977	3935
0.8		416	326	257	203	893	701	552	436	60	37	101	79	49	245	19	151	11	-	-	-	-			
0.8	1	15	54	14	17	3	0	0	1	765	1	473	4	2	4	626	4	0	22	4	96	8039	6308	4967	3925
0.8	0.8	415	326	256	202	892	700	551	435	60	37	101	79	49	244	19	151	11	-	-	-	-			
1	2	89	14	67	67	8	1	0	1	765	0	472	3	2	3	624	3	8	20	1	93	8034	6300	4958	3915
<b>0.8</b>	<b>0.8</b>	415	325	256	202	892	699	550	434	59	37	101	79	49	244	19	150	11	-	-	-	-			
<b>2</b>	<b>3</b>	64	74	20	18	2	3	0	0	764	9	471	2	1	2	623	2	7	18	8	90	8029	6293	4949	3906
0.8	0.8	415	325	255	201	891	698	549	433	59	37	101	79	49	244	19	150	11	-	-	-	-			
3	4	39	35	74	69	7	4	0	0	764	8	470	1	0	1	622	1	5	15	6	87	8024	6285	4940	3896
0.8	0.8	415	324	255	201	891	697	548	431	59	37	101	79	48	244	19	150	11	-	-	-	-			
4	5	14	96	28	21	2	6	0	9	763	8	469	0	0	0	621	9	4	13	3	85	8020	6278	4931	3887
<b>0.8</b>	<b>0.8</b>	414	324	254	200	890	696	547	430	59	36	100	79	48	244	19	150	11	-	-	-	-			
<b>5</b>	<b>6</b>	90	58	83	74	6	8	0	9	763	7	469	9	9	0	620	8	2	11	0	82	8015	6270	4923	3878
0.8	0.8	414	324	254	200	890	696	546	429	59	36	100	78	48	244	19	149	11	-	-	-	-			
6	7	65	20	39	27	1	0	1	9	763	6	468	8	9	9	619	7	1	09	8	79	8010	6263	4914	3869
0.8	0.8	414	323	253	199	889	695	545	428	59	36	100	78	48	244	19	149	11	-	-	-	-			
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<b>0.8</b>	<b>0.8</b>	414	323	253	199	889	694	544	428	59	36	100	78	48	243	19	149	11	-	-	-	-			
<b>8</b>	<b>9</b>	18	46	52	36	1	4	2	0	762	5	466	7	8	7	617	5	8	04	2	74	8001	6249	4897	3851
0.8		413	323	253	198	888	693	543	427	59	36	100	78	48	243	19	149	11	-	-	-	-			
9	0.9	95	10	09	91	6	6	3	0	761	4	465	6	7	6	616	4	7	02	0	71	7997	6242	4889	3843
0.9	0.9	413	322	252	198	888	692	542	426	59	36	100	78	48	243	19	148	11	-	-	-	-			
0	1	72	74	67	47	1	8	4	1	761	4	465	5	6	5	615	3	6	00	7	68	7992	6235	4881	3834
<b>0.9</b>	<b>0.9</b>	413	322	252	198	887	692	541	425	760	59	464	36	100	78	614	48	243	18	148	11	-	-	-	-

<b>1</b>	<b>2</b>	49	39	25	04	6	1	5	1	3	4	6	4	2	4	98	5	66	7988	6228	4873	3826			
0.9	0.9	413	322	251	197	887	691	540	424	59	36	100	78	48	243	18	148	11	-	-	-	-			
2	3	27	04	84	61	1	3	6	2	760	2	463	3	5	3	613	1	3	96	3	63	7983	6221	4865	3817
0.9	0.9	413	321	251	197	886	690	539	423	59	36	100	78	48	243	18	148	11	-	-	-	-			
3	4	04	69	44	18	7	6	8	3	760	2	462	3	5	3	612	0	2	94	0	61	7979	6214	4857	3809
<b>0.9</b>	<b>0.9</b>	412	321	251	196	886	689	538	422	59	36	100	78	47	243	18	147	11	-	-	-	-			
<b>4</b>	<b>5</b>	82	35	04	77	2	8	9	4	759	1	462	2	4	2	611	9	0	92	8	58	7975	6208	4849	3801
0.9	0.9	412	321	250	196	885	689	538	421	59	36	100	78	47	242	18	147	11	-	-	-	-			
5	6	61	01	64	35	7	1	0	5	759	0	461	1	4	1	610	8	9	90	6	56	7971	6201	4842	3793
0.9	0.9	412	320	250	195	885	688	537	420	59	36	100	78	47	242	18	147	11	-	-	-	-			
6	7	39	68	25	94	3	4	2	6	758	0	460	0	3	0	609	7	8	88	3	54	7967	6195	4834	3785
<b>0.9</b>	<b>0.9</b>	412	320	249	195	884	687	536	419	58	36	100	77	47	242	18	147	11	-	-	-	-			
<b>7</b>	<b>8</b>	18	35	86	54	8	7	4	8	758	9	459	0	3	9	608	6	7	86	1	51	7962	6188	4827	3777
0.9	0.9	411	320	249	195	884	687	535	418	58	35	100	77	47	242	18	146	11	-	-	-	-			
8	9	97	02	48	14	4	0	6	9	758	9	459	9	2	8	607	5	5	84	9	49	7958	6182	4819	3770
0.9	1.0	<b>411</b>	<b>319</b>	<b>249</b>	<b>194</b>	<b>883</b>	<b>686</b>	<b>534</b>	<b>418</b>	<b>58</b>	<b>35</b>	<b>100</b>	<b>77</b>	<b>47</b>	<b>242</b>	<b>18</b>	<b>146</b>	<b>11</b>	-	-	-	-			
9	0	<b>76</b>	<b>70</b>	<b>11</b>	<b>75</b>	<b>9</b>	<b>3</b>	<b>7</b>	<b>1</b>	<b>757</b>	<b>8</b>	<b>458</b>	<b>8</b>	<b>2</b>	<b>8</b>	<b>606</b>	<b>4</b>	<b>4</b>	<b>82</b>	<b>6</b>	<b>46</b>	<b>7954</b>	<b>6176</b>	<b>4812</b>	<b>3762</b>

I93S (north of Boston)

O	N	ND (1)				ND (2)				ND (3)				ND (4)				ND (5)				ND (6)							
		-	-	-	-	0.0	-	0.1	-	0.0	0.1	-	-	0.0	0.1	-	-	0.0	0.1	-	-	0.0	-0.1	0.1	-0.2	0.0	-0.1	0.1	-0.2
P	P	0.05	-0.1	0.15	-0.2	5	0.1	5	0.2	5	-0.1	5	-0.2	5	-0.1	5	-0.2	5	-0.1	5	-0.2	5	-0.1	5	-0.2	5	-0.1	5	-0.2
0.	0.0	608	608	608	608	93	93	93	93	321	321	321	321	147	147	147	147	336	336	336	336	935	935	935	935				
00	1	01	01	01	01	12	12	12	12	6	6	6	6	6	6	6	6	6	6	6	6	3	3	3	3				
<b>0.</b>	<b>0.0</b>	579	552	528	506	88	84	80	77	306	292	279	268	140	134	128	123	320	306	292	280	890	850	813	779				
<b>01</b>	<b>2</b>	06	74	70	68	69	65	97	60	3	4	7	0	6	2	3	0	6	0	7	5	8	3	3	4				
0.	0.0	564	526	491	460	86	80	75	70	298	278	260	243	137	127	119	111	312	291	272	255	869	809	756	708				
02	3	93	42	82	61	52	62	32	55	8	4	1	6	1	8	4	8	8	4	3	0	0	8	6	6				
0.	0.0	555	509	468	431	85	78	71	66	293	269	247	228	134	123	113	104	307	282	259	239	854	783	720	664				
03	4	67	43	40	83	10	02	74	14	9	5	8	4	9	7	7	8	6	0	3	1	8	7	5	3				
<b>0.</b>	<b>0.0</b>	548	497	451	411	84	76	69	62	290	262	238	217	133	120	109	-	303	275	249	227	844	764	694	632				
<b>04</b>	<b>5</b>	81	01	47	26	05	12	14	99	3	9	8	5	2	7	6	998	8	1	9	7	2	5	5	6				
0.	0.0	543	487	438	395	83	74	67	60	287	257	231	209	131	118	106	-	300	269	242	218	835	749	674	608				
05	6	38	26	32	44	22	63	13	56	4	7	8	2	9	3	4	960	8	8	7	9	9	6	3	3				
0.	0.0	538	479	427	382	82	73	65	58	285	253	226	202	130	116	103	-	298	265	236	211	829	737	657	588				
06	7	89	28	63	69	53	40	49	61	0	5	2	4	8	3	8	929	3	3	7	9	0	3	8	7				
<b>0.</b>	<b>0.0</b>	535	472	418	372	81	72	64	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
<b>07</b>	<b>8</b>	07	53	66	06	95	37	12	98	283	249	221	196	129	114	101	903	296	261	231	206	823	726	644	572				

										0	9	4	8	9	7	6	2	6	8	0	1	9	0	3	
										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
0.08	0.09	531	466	410	362	81	71	62	55	281	246	217	192	129	113	-	294	258	227	201	818	717	632	558	
		74	69	95	98	44	48	94	59	3	9	4	0	1	3	998	881	4	4	5	0	0	9	2	4
										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
0.09	0.10	528	461	404	355	80	70	61	54	279	244	213	187	128	112	-	292	255	223	196	813	710	621	546	
		80	56	21	09	99	69	91	38	7	1	8	8	4	0	981	862	8	5	8	6	5	0	8	2
										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>0.10</b>	<b>0.11</b>	526	456	398	348	80	69	60	53	278	241	210	184	127	110	-	291	253	220	192	809	703	612	535	
<b>10</b>	<b>1</b>	17	99	24	13	59	99	99	32	3	7	6	1	7	9	967	845	3	0	5	7	4	0	6	5
										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
0.11	0.12	523	452	392	341	80	69	60	52	277	239	207	180	127	109	-	290	250	217	189	805	696	604	526	
		79	88	88	91	22	36	17	37	1	5	8	9	2	9	954	830	0	7	5	3	7	7	4	0
										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.12	0.13	521	449	388	336	79	68	59	51	275	237	205	177	126	109	-	288	248	214	186	802	690	596	517	
		62	13	03	31	89	79	43	51	9	6	2	9	6	0	942	816	8	6	8	2	4	9	9	3
										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>0.13</b>	<b>0.14</b>	519	445	383	331	79	68	58	50	274	235	202	175	126	108	-	287	246	212	183	799	685	590	509	
<b>13</b>	<b>4</b>	62	71	61	21	58	26	75	73	8	8	9	2	1	2	931	804	7	7	4	4	3	6	1	5
										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.14	0.15	517	442	379	326	79	67	58	50	273	234	200	172	125	107	-	286	245	210	180	796	680	583	502	
		77	54	54	55	30	78	13	01	9	1	8	7	7	4	921	793	6	0	1	8	5	8	8	3
										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.15	0.16	516	439	375	322	79	67	57	49	273	232	198	170	125	106	-	285	243	208	178	793	676	578	495	
		05	61	78	25	04	33	55	35	0	5	8	5	3	7	912	782	7	4	0	4	8	3	1	7
										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>0.16</b>	<b>0.17</b>	514	436	372	318	78	66	57	48	272	231	196	168	124	106	-	284	241	206	176	791	672	572	489	
<b>16</b>	<b>7</b>	44	88	29	27	79	91	02	75	1	1	9	3	9	1	904	773	8	9	1	2	4	1	7	6
										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.17	0.18	512	434	369	314	78	66	56	48	271	229	195	166	124	105	-	284	240	204	174	789	668	567	483	
		94	33	04	57	56	52	52	18	3	7	2	4	5	4	896	764	0	4	3	1	0	1	7	9
										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.18	0.19	511	431	365	311	78	66	56	47	270	228	193	164	124	104	-	283	239	202	172	786	664	563	478	
		51	93	99	11	34	15	05	65	6	5	6	6	2	9	888	755	2	1	6	2	9	4	0	6
										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>0.19</b>	<b>0.20</b>	510	429	363	307	78	65	55	47	269	227	192	162	123	104	-	282	237	201	170	784	661	558	473	
<b>19</b>	<b>0</b>	17	67	12	87	14	81	61	15	8	3	1	8	8	3	882	747	4	9	0	4	8	0	6	6
										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.20	0.21	508	427	360	304	77	65	55	46	269	226	190	161	123	103	-	281	236	199	168	782	657	554	468	
		90	53	42	83	94	48	20	69	2	1	6	2	5	8	875	740	7	7	5	8	8	7	4	9
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24	5	39	99	94	20	25	32	75	06	266	222	185	155	122	102	852	714	279	232	194	162	775	646	539	452
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<b>37</b>	<b>8</b>	78	52	29	27	62	65	43	39	2	9	2	0	9	977	799	656	4	8	3	6	6	2	5	8
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<b>67</b>	<b>8</b>	49	57	54	35	44	13	18	81	6	8	5	1	4	921	732	583	-	-	4	1	9	1	6	9	9	7
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<b>0.</b>	<b>0.8</b>	473	370	291	229	72	56	44	35	250	196	153	121	115	-	-	-	262	205	161	126	728	570	447	352
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87	8	31	85	04	21	49	64	42	95	3	6	4	7	9	898	704	554	0	8	6	3	1	9	2	1
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<b>0.</b>	<b>0.8</b>	473	369	289	227	72	56	44	34	250	195	153	120	114	-	-	-	261	204	160	126	727	568	445	350
<b>88</b>	<b>9</b>	04	43	54	69	45	58	35	87	2	4	2	4	8	897	703	553	9	5	3	1	7	3	4	3
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90	1	51	61	58	68	37	45	20	72	9	0	6	9	7	895	701	550	6	1	8	5	9	0	9	7

<b>0. 0. 91</b>	<b>0. 0. 91</b>	472 25	368 20	288 10	226 18	72 33	56 39	44 12	34 64	- 8	- 8	- 4	- 6	- 6	- 894	- 699	- 549	261 4	203 8	159 5	125 2	726 5	566 4	443 2	347 9
0. 92	0. 93	471 99	367 80	287 63	225 69	72 29	56 33	44 05	34 57	249 7	194 5	152 1	119 4	114 6	- 893	- 698	- 548	261 3	203 6	159 2	124 9	726 1	565 8	442 5	347 2
0. 93	0. 94	471 74	367 41	287 17	225 20	72 25	56 27	43 98	34 49	249 5	194 3	151 9	119 1	114 5	- 892	- 697	- 547	261 2	203 4	159 0	124 7	725 7	565 2	441 8	346 4
<b>0. 0. 94</b>	<b>0. 0. 94</b>	471 49	367 02	286 71	224 73	72 21	56 21	43 91	34 42	249 4	194 1	151 7	118 9	114 5	- 891	- 696	- 546	261 0	203 2	158 7	124 4	725 3	564 6	441 0	345 7
0. 95	0. 96	471 24	366 63	286 26	224 25	72 17	56 15	43 84	34 35	249 3	193 9	151 4	118 6	114 4	- 890	- 695	- 544	260 9	203 0	158 5	124 1	724 9	564 0	440 4	345 0
0. 96	0. 97	471 00	366 25	285 81	223 79	72 14	56 09	43 77	34 27	249 1	193 7	151 2	118 4	114 3	- 889	- 694	- 543	260 7	202 8	158 2	123 9	724 5	563 4	439 7	344 3
<b>0. 0. 97</b>	<b>0. 0. 97</b>	470 75	365 87	285 37	223 33	72 10	56 04	43 71	34 20	249 0	193 5	150 9	118 1	114 3	- 888	- 693	- 542	260 6	202 5	158 0	123 6	724 2	562 8	439 0	343 5
0. 98	0. 99	470 51	365 50	284 94	222 87	72 06	55 98	43 64	34 13	248 9	193 3	150 7	117 9	114 2	- 887	- 692	- 541	260 5	202 3	157 7	123 4	723 8	562 2	438 3	342 8
<b>0. 0. 99</b>	<b>0. 0. 99</b>	<b>470</b> <b>27</b>	<b>365</b> <b>13</b>	<b>284</b> <b>50</b>	<b>222</b> <b>42</b>	<b>72</b> <b>03</b>	<b>55</b> <b>92</b>	<b>43</b> <b>57</b>	<b>34</b> <b>07</b>	<b>248</b> <b>7</b>	<b>193</b> <b>1</b>	<b>150</b> <b>5</b>	<b>117</b> <b>6</b>	<b>114</b> <b>2</b>	<b>-</b> <b>886</b>	<b>-</b> <b>691</b>	<b>-</b> <b>540</b>	<b>260</b> <b>3</b>	<b>202</b> <b>1</b>	<b>157</b> <b>5</b>	<b>123</b> <b>1</b>	<b>723</b> <b>4</b>	<b>561</b> <b>7</b>	<b>437</b> <b>7</b>	<b>342</b> <b>2</b>

		<b>193S (North of Boston) -- Congestion</b>																									
		<b>ND (1)</b>				<b>ND (2)</b>				<b>ND (3)</b>				<b>ND (4)</b>				<b>ND (5)</b>				<b>ND (6)</b>					
		-	-	-	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OP	NP	0.05	-0.1	-0.15	-0.2	0.05	-0.1	5	-0.2	5	0.1	5	0.2	5	0	0.1	5	2	5	0.1	5	0.2	5	-0.1	5	-0.2	
0.0	0.0	153	1530	1530	1530	-	174	174	174	-	93	-	93	22	22	-	63	-	63	-	63	-	63	154	154	154	154
0	1	05	5	5	5	1747	7	7	7	935	5	935	5	226	6	226	6	630	0	630	0	630	0	5	5	5	5
<b>0.0</b>	<b>0.0</b>	145	1391	1330	1275	-	158	151	145	-	85	-	77	20	18	-	57	-	52	-	52	-	52	147	140	134	128
<b>1</b>	<b>2</b>	76	4	9	4	1664	8	9	6	890	0	813	9	215	5	197	8	600	3	548	5	600	3	1	5	3	8
0.0	0.0	142	1325	1238	1159	-	151	141	132	-	81	-	70	19	17	-	54	-	47	-	47	-	47	143	133	125	117
2	3	21	1	0	5	1623	3	3	3	869	0	756	8	210	6	183	1	585	5	510	7	585	5	6	8	0	0
0.0	0.0	139	1282	1179	1087	-	146	134	124	-	78	-	66	18	16	-	52	-	44	-	44	-	44	141	129	119	109
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<b>0.0</b>	<b>0.0</b>	138	1251	1136	1035	-	142	129	118	-	76	-	63	18	15	-	51	-	42	-	42	-	42	139	126	114	104
<b>4</b>	<b>5</b>	15	1	4	2	1577	8	7	2	844	4	694	2	204	5	168	3	569	5	468	6	569	5	5	3	7	5

0.0	0.0	136	1226	1103		-	-	-	-	-	-	-	18	14	-	-	-	-	-	-	-	-	-	-	-
5	6	78	6	3	9954	1561	0	9	6	836	9	674	8	202	1	163	7	563	5	454	0	138	123	111	100
0.0	0.0	135	1206	1076		-	137	122	110	-	73	-	58		17		14	-	49	-	39	136	121	108	-
6	7	65	4	4	9633	1548	7	9	0	829	7	658	8	200	8	159	2	558	7	443	7	9	8	7	972
0.0	0.0	134	1189	1053		-	135	120	106	-	72	-	57		17		13	-	49	-	38	136	120	106	-
7	8	69	5	9	9366	1537	8	3	9	823	7	644	2	199	6	156	8	554	0	434	6	0	1	4	945
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0.1	0.1	130	1121			-	128	110	-	-	68	-	50		16		12	-	46	-	34	132	113	-	-
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0.1	0.1	129	1106			-	126	108	-	-	67	-	49		16		12	-	45	-	33	131	111	-	-
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8	9	13	6			1417	115	942	772	758	61	504	41		9	0	511	41	340	27	125	102	833	683	
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<b>0.3</b>	<b>0.4</b>	123	1008			-	115	-	-	-	61	-	41		14		-	41	-	27	125	101	-	-	
<b>9</b>	<b>0</b>	97	0	8225	6733	1415	1	939	769	757	6	502	1	183	9	121	99	510	5	339	7	1	8	830	680
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<b>0.4</b>	<b>0.4</b>	123	1003			-	114	-	-	-	61	-	40		14		-	41	-	27	124	101	-	-	
<b>1</b>	<b>2</b>	67	0	8164	6667	1412	5	932	761	755	3	499	7	183	8	121	98	509	3	336	4	8	3	824	673
							-				-		-					-		-					
<b>0.4</b>	<b>0.4</b>	123	1000			-	114	-	-	-	61	-	40		14		-	41	-	27	124	101	-	-	
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1.0	1.0	118				-	104	-	-	-	55	-	33		13		-	37	-	22	119	-	-	-	
4	5	09	9146	7109	5544	1348	4	811	633	721	9	434	9	174	5	105	82	486	6	293	8	2	923	718	560



							8				0		9				1	1		3						
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1.2	1.2	117					-	102	-	-	-	55	-	32	13			37	-	22	118	-	-	-		
	2	3	15	9002	6942	5371	1337	8	792	613	716	0	424	8	173	3	103	79	482	1	286	1	3	909	701	542
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1.2	1.2	117					-	102	-	-	-	55	-	32	13			37	-	22	118	-	-	-		
	3	4	11	8995	6933	5362	1337	7	791	612	715	0	424	8	173	3	102	79	482	0	285	1	2	908	700	541
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<b>1.2</b>	<b>1.2</b>	117					-	102	-	-	-	54	-	32	13			37	-	22	118	-	-	-		
<b>4</b>	<b>5</b>	06	8988	6925	5354	1336	6	790	611	715	9	423	7	173	3	102	79	482	0	285	0	2	907	699	540	
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1.2	1.2	117					-	102	-	-	-	54	-	32	13			37	-	22	118	-	-	-		
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	6	7	97	8973	6908	5337	1335	4	789	609	715	8	422	6	173	3	102	79	481	9	284	0	1	906	697	539
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<b>1.2</b>	<b>1.2</b>	116					-	102	-	-	-	54	-	32	13			36	-	21	118	-	-	-		
<b>7</b>	<b>8</b>	92	8966	6900	5328	1335	3	788	608	714	8	422	6	173	2	102	79	481	9	284	9	0	905	697	538	
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	8	9	88	8959	6892	5320	1334	3	787	607	714	7	421	5	173	2	102	79	481	9	284	9	0	904	696	537
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1.2	1.3	116					-	102	-	-	-	54	-	32	13			36	-	21	117	-	-	-		
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<b>1.3</b>	<b>1.3</b>	116					-	102	-	-	-	54	-	32	13			36	-	21	117	-	-	-		
<b>0</b>	<b>1</b>	78	8945	6876	5304	1333	1	785	605	713	6	420	4	172	2	102	78	481	8	283	8	9	903	694	535	
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	2	3	70	8932	6861	5287	1332	0	783	604	713	6	419	3	172	2	101	78	480	8	282	8	8	902	693	534
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<b>1.3</b>	<b>1.3</b>	116					-	101	-	-	-	54	-	32	13			36	-	21	117	-	-	-		
<b>3</b>	<b>4</b>	65	8925	6853	5280	1332	9	782	603	713	5	419	3	172	2	101	78	480	7	282	7	8	901	692	533	
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1.3	1.3	116					-	101	-	-	-	54	-	32	13			36	-	21	117	-	-	-		
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1.3	1.3	116					-	101	-	-	-	54	-	32	13			36	-	21	117	-	-	-		
	5	6	57	8912	6838	5264	1331	7	780	601	712	4	418	2	172	2	101	78	480	7	281	7	7	900	690	531
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<b>1.3</b>	<b>1.3</b>	116					-	101	-	-	-	54	-	32	13			36	-	21	117	-	-	-		
<b>6</b>	<b>7</b>	52	8905	6830	5256	1330	6	780	600	712	4	417	1	172	1	101	78	480	7	281	6	6	899	689	531	
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8	9	44				1329	101	778	598	711	54	416	32		1				479	36	281	21	117	898	688	529
							5				3		0							6		6	5			
1.3	<b>1.4</b>	116				-	101	-	-	-	54	-	32		13				-	36	-	21	117	-	-	-
9	<b>0</b>	40	8886	6808	5233	1329	4	777	597	711	3	416	0	172	1	101	77	479	6	280	5	5	897	687	528	
<b>1.4</b>	1.4	116				-	101	-	-	-	54	-	31		13				-	36	-	21	117	-	-	-
<b>0</b>	1	35	8880	6801	5226	1328	4	776	597	711	2	415	9	172	1	100	77	479	6	280	5	5	896	687	528	
1.4	1.4	116				-	101	-	-	-	54	-	31		13				-	36	-	21	117	-	-	-
1	2	31	8873	6793	5218	1328	3	775	596	711	2	415	9	172	1	100	77	479	5	280	5	4	896	686	527	
1.4	<b>1.4</b>	116				-	101	-	-	-	54	-	31		13				-	36	-	21	117	-	-	-
2	<b>3</b>	27	8867	6786	5211	1327	2	775	595	710	2	415	8	172	1	100	77	479	5	279	5	4	895	685	526	
<b>1.4</b>	1.4	116				-	101	-	-	-	54	-	31		13				-	36	-	21	117	-	-	-
<b>3</b>	4	23	8861	6779	5204	1327	1	774	594	710	1	414	8	172	1	100	77	478	5	279	4	3	894	684	525	
1.4	1.4	116				-	101	-	-	-	54	-	31		13				-	36	-	21	117	-	-	-
4	5	19	8855	6772	5197	1326	1	773	593	710	1	414	7	172	1	100	77	478	4	279	4	3	894	684	525	
1.4	<b>1.4</b>	116				-	101	-	-	-	54	-	31		13				-	36	-	21	117	-	-	-
5	<b>6</b>	15	8849	6765	5189	1326	0	772	592	710	1	413	7	172	1	100	77	478	4	278	4	3	893	683	524	
<b>1.4</b>	1.4	116				-	100	-	-	-	54	-	31		13				-	36	-	21	117	-	-	-
<b>6</b>	7	11	8843	6758	5182	1325	9	771	592	709	0	413	7	171	1	100	77	478	4	278	3	2	893	682	523	
1.4	1.4	116				-	100	-	-	-	54	-	31		13				-	36	-	21	117	-	-	-
7	8	07	8836	6751	5175	1325	9	771	591	709	0	412	6	171	0	100	76	478	4	278	3	2	892	682	522	
1.4	<b>1.4</b>	116				-	100	-	-	-	53	-	31		13				-	36	-	21	117	-	-	-
8	<b>9</b>	03	8831	6744	5168	1324	8	770	590	709	9	412	6	171	0	100	76	478	3	278	3	1	891	681	522	
<b>1.4</b>		<b>115</b>				-	<b>100</b>	-	-	-	<b>53</b>	-	<b>31</b>		<b>13</b>				-	<b>36</b>	-	<b>21</b>	<b>117</b>	-	-	-
<b>9</b>	<b>1.5</b>	<b>99</b>	<b>8825</b>	<b>6738</b>	<b>5161</b>	<b>1324</b>	<b>7</b>	<b>769</b>	<b>589</b>	<b>709</b>	<b>9</b>	<b>412</b>	<b>5</b>	<b>171</b>	<b>0</b>	<b>99</b>	<b>76</b>	<b>477</b>	<b>3</b>	<b>277</b>	<b>2</b>	<b>1</b>	<b>891</b>	<b>680</b>	<b>521</b>	

		<b>I93N (North of Boston) -- Congestion</b>											
		<b>ND (1)</b>		<b>ND (2)</b>		<b>ND (3)</b>		<b>ND (4)</b>		<b>ND (5)</b>		<b>ND (6)</b>	
		<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
OP	NP	<b>0.05</b>	<b>-0.1</b>	<b>-0.15</b>	<b>-0.2</b>	<b>-0.05</b>	<b>0.1</b>	<b>0.15</b>	<b>0.2</b>	<b>0.05</b>	<b>0.1</b>	<b>0.15</b>	<b>0.2</b>
0.0	0.0	717				25	250	25		24			24
0	1	1	7171	7171	7171	2507	07	7	07	247	7	247	7
<b>0.0</b>	<b>0.0</b>	683				22	218	20		22			20
<b>1</b>	<b>2</b>	0	6519	6236	5976	2388	79	0	89	235	5	215	6
0.0	0.0	666	6209	5801	5433	2329	21	202	18	230	21	200	18

2	3	3				71	8	99		4	7	4	59	3	14	2	34	7	67	243	227	212	198		
																				7	1	2	7		
<b>0.0</b>	<b>0.0</b>	655				21	193	17	20	17	122	11	103	95	140	12	118	10	239	219	202	186			
<b>3</b>	<b>4</b>	4	6008	5524	5093	2291	01	1	81	226	7	190	5	4	22	2	1	8	91	7	94	7	8	1	3
0.0	0.0	647				20	186	16	20	16	120	10		90	139	12	114	10	236	214	194	177			
4	5	3	5862	5325	4851	2263	49	2	96	223	2	183	7	9	95	994	6	1	60	4	42	8	4	8	4
<b>0.0</b>	<b>0.0</b>	640				20	180	16	19	16	119	10		87	137	12	111	10	234	210	189	170			
<b>5</b>	<b>6</b>	9	5747	5170	4664	2241	09	7	31	221	8	178	1	7	73	965	1	7	35	1	02	4	2	1	6
0.0	0.0	635				19	176	15	19	15	118	10		84	136	12	108	97	232	206	184	165			
6	7	6	5653	5044	4514	2222	76	3	78	219	5	174	5	7	55	942	3	6	15	4	0	5	8	5	1
<b>0.0</b>	<b>0.0</b>	631				19	172	15	19	15	117	10		81	135	11	106	94	230	203	180	160			
<b>7</b>	<b>8</b>	1	5573	4938	4388	2206	48	6	34	217	2	170	1	8	41	922	9	6	98	1	3	8	9	6	5
0.0	0.0	627				19	169	14	19	14	117	10		79	134	11	104	92	229	201	177	156			
8	9	1	5504	4847	4281	2193	24	4	97	216	0	167	7	1	28	905	9	8	83	2	0	4	3	3	6
<b>0.0</b>	<b>0.1</b>	623				19	166	14	18	14	116	10		78	134	11	102	90	228	199	174	153			
<b>9</b>	<b>0</b>	7	5444	4767	4188	2180	03	7	64	215	8	164	4	5	16	890	2	0	70	4	0	1	1	4	2
0.1	0.1	620				18	164	14	18	14	115	10		76	133	11	100	88	227	197	171	150			
0	1	6	5390	4697	4106	2170	84	2	35	214	6	162	1	9	06	877	7	4	58	9	2	0	2	8	2
<b>0.1</b>	<b>0.1</b>	617				18	162	14	18	13	115	99		75	132	11		86	226	195	169	147			
<b>1</b>	<b>2</b>	8	5341	4634	4033	2160	67	0	10	213	4	160	9	4	7	865	3	8	48	996	7	0	4	5	5
0.1	0.1	615				18	160	13	18	13	114	98		74	132	11		85	225	193	167	145			
2	3	2	5297	4577	3966	2151	52	0	87	212	2	158	7	9	9	855	1	2	38	983	2	0	8	4	1
<b>0.1</b>	<b>0.1</b>	612				18	158	13	18	13	114	98		72	131	11		83	224	192	165	142			
<b>3</b>	<b>4</b>	9	5257	4524	3906	2143	38	2	66	211	1	156	5	4	2	845	9	7	30	972	9	2	3	5	9
0.1	0.1	610				18	156	13	18	13	114	97		71	131	11		82	223	190	163	140			
4	5	7	5219	4476	3851	2135	25	5	46	210	0	154	3	0	5	836	9	2	22	962	8	4	9	7	9
<b>0.1</b>	<b>0.1</b>	608				18	154	13	17	13	113	96		71	130	11		81	222	189	162	139			
<b>5</b>	<b>6</b>	6	5185	4432	3801	2128	13	9	29	210	9	153	1	6	8	828	0	8	14	952	7	6	7	1	0
0.1	0.1	606				18	153	13	17	12	113	96		70	130	11		80	221	188	160	137			
6	7	7	5153	4391	3754	2121	01	5	12	209	7	151	9	3	2	820	1	4	07	944	7	9	5	6	3
<b>0.1</b>	<b>0.1</b>	605				17	152	12	17	12	113	95		69	130	11		79	221	187	159	135			
<b>7</b>	<b>8</b>	0	5123	4352	3710	2115	91	2	97	208	6	150	8	0	7	813	3	0	01	935	7	3	4	2	7
0.1	0.1	603				17	150	12	17	12	112	95		68	129	10		78	220	186	157	134			
8	9	3	5094	4317	3669	2109	81	9	83	208	5	149	6	6	1	806	5	6	95	928	9	7	3	9	2

<b>0.1</b>	<b>0.2</b>	601					17	149	12		17		12	112	94		67	129	10		78	-	-	-	-
<b>9</b>	<b>0</b>	7	5068	4283	3631	2104	72	7	69	207	5	148	5	4	6	800	8	3	89	920	0	220	185	156	132
																						-	-	-	-
0.2	0.2	600					17	148	12		17		12	112	94		67	129	10		77	219	184	155	131
0	1	2	5042	4251	3595	2098	63	6	57	207	4	146	4	1	2	794	1	0	84	913	3	5	4	5	5
																						-	-	-	-
<b>0.2</b>	<b>0.2</b>	598					17	147	12		17		12	111	93		66	128	10		76	219	183	154	130
<b>1</b>	<b>2</b>	8	5018	4221	3561	2093	54	6	45	206	3	145	3	8	7	788	5	7	78	907	5	0	6	4	3
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0.2	0.2	597					17	146	12		17		12	111	93		65	128	10		75	218	182	153	129
2	3	4	4996	4192	3529	2089	47	6	34	206	2	144	2	6	3	783	9	4	74	901	8	5	7	3	1
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<b>0.2</b>	<b>0.2</b>	596					17	145	12		17		12	111	92		65	128	10		75	218	181	152	128
<b>3</b>	<b>4</b>	1	4974	4165	3499	2084	39	6	23	205	1	143	1	3	9	778	3	1	69	895	2	1	9	3	0
																						-	-	-	-
0.2	0.2	594					17	144	12		17		12	111	92		64	127	10		74	217	181	151	126
4	5	9	4954	4139	3470	2080	32	7	13	205	1	143	0	1	5	773	8	8	64	889	6	6	2	4	9
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0.2	<b>0.2</b>	593					17	143	12		17		11	110	92		64	127	10		74	217	180	150	125
5	<b>6</b>	7	4934	4114	3442	2076	25	8	03	204	0	142	9	9	1	768	3	6	60	884	0	2	5	5	9
																						-	-	-	-
<b>0.2</b>	0.2	592					17	143	11		16		11	110	91		63	127	10		73	216	179	149	125
<b>6</b>	7	6	4915	4091	3416	2072	18	0	94	204	9	141	8	6	8	764	8	3	56	879	4	7	8	6	0
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0.2	<b>0.2</b>	591					17	142	11		16		11	110	91		63	127	10		72	216	179	148	124
7	<b>8</b>	5	4897	4068	3391	2068	12	2	85	204	9	140	7	4	4	760	3	1	52	874	9	3	1	8	0
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<b>0.2</b>	0.2	590					17	141	11		16		11	110	91		62	126	10		72	216	178	148	123
<b>8</b>	9	4	4879	4046	3367	2064	06	5	77	203	8	139	6	2	1	756	9	9	49	870	4	0	5	0	2
																						-	-	-	-
0.2	<b>0.3</b>	589					17	140	11		16		11	110	90		62	126	10		71	215	177	147	122
9	<b>0</b>	4	4863	4026	3344	2061	00	7	69	203	7	139	5	1	8	752	4	7	45	865	9	6	9	3	3
																						-	-	-	-
<b>0.3</b>	0.3	588					16	140	11		16		11	109	90		62	126	10		71	215	177	146	121
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0.7	<b>0.7</b>	561				1963	15	121	96	15		104	82		51	120	94	59	205	161	127	100			
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																						-	-	-	-
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																						-	-	-	-
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0.7	<b>0.8</b>	560				1961	15	121	95	15		104	82		51	120	94	59	205	161	126	100			
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<b>6</b>	<b>7</b>	5	4320	3371	2639	1942	10	8	3	191	9	116	91	7	7	629	3	4	8	724	7	2	0	3	7	2	0	3	965		
<b>0.9</b>	<b>0.9</b>	555								15	117	92		14						103	80		49	119	92	56	203	157	123	-	
<b>7</b>	<b>8</b>	2	4315	3366	2634	1941	09	7	1	191	9	116	91	7	6	628	2	3	7	723	6	1	8	1	6	1	8	1	963		
<b>0.9</b>	<b>0.9</b>	554								15	117	91		14						103	80		49	119	92	56	203	157	122	-	
<b>8</b>	<b>9</b>	9	4311	3361	2629	1940	07	5	9	191	8	116	91	6	5	628	1	3	6	722	5	0	7	9	5	0	7	9	961		
<b>0.9</b>	<b>1.0</b>	554								15	117	91		14						103	80		49	119	92	56	202	157	122	-	
<b>9</b>	<b>0</b>	7	4306	3356	2623	1939	06	3	7	191	8	116	90	6	4	627	0	2	5	721	4	9	5	7	4	9	5	7	960		
<b>1.0</b>	<b>1.0</b>	554								15	117	91		14						103	80		48	119	92	56	202	157	122	-	
<b>0</b>	<b>1</b>	4	4302	3350	2618	1938	04	1	5	191	8	115	90	5	3	626	9	1	4	720	3	8	4	6	3	8	4	6	958		
<b>1.0</b>	<b>1.0</b>	554								15	117	91		14						103	80		48	119	92	56	202	157	122	-	
<b>1</b>	<b>2</b>	1	4298	3346	2613	1937	03	0	3	191	8	115	90	5	3	625	8	1	4	719	1	7	2	4	1	7	2	4	956		
<b>1.0</b>	<b>1.0</b>	553								15	116	91		14						103	80		48	119	92	56	-	-	-	-	

2	3	8				01	8	2	8	4	2	7	0	3	0	202	157	122	954						
																6	1	2							
<b>1.0</b>	<b>1.0</b>	553				15	116	91	14	103	80	48	119	92	55	202	156	122	-						
<b>3</b>	<b>4</b>	6	4289	3336	2603	1935	00	6	0	191	8	115	90	4	1	623	6	0	2	717	9	5	9	0	952
1.0	1.0	553				14	116	90	14	103	80	48	118	92	55	202	156	121	-						
4	5	3	4285	3331	2598	1934	98	5	8	191	8	115	89	3	0	622	5	9	1	716	8	4	7	8	950
<b>1.0</b>	<b>1.0</b>	553				14	116	90	14	103	79	48	118	92	55	202	156	121	-						
<b>5</b>	<b>6</b>	0	4281	3326	2593	1933	97	3	6	190	7	115	89	3	9	621	4	8	0	715	7	3	6	7	948
1.0	1.0	552				14	116	90	14	103	79	48	118	91	55	202	156	121	-						
6	7	8	4277	3321	2588	1933	95	1	5	190	7	114	89	2	9	620	3	8	9	714	6	2	5	5	947
<b>1.0</b>	<b>1.0</b>	552				14	116	90	14	103	79	48	118	91	55	202	156	121	-						
<b>7</b>	<b>8</b>	5	4273	3317	2583	1932	94	0	3	190	7	114	89	2	8	619	2	7	8	713	5	1	3	3	945
1.0	1.0	552				14	115	90	14	103	79	48	118	91	55	202	156	121	-						
8	9	3	4269	3312	2578	1931	93	8	1	190	7	114	89	1	7	618	1	7	7	712	4	0	2	2	943
<b>1.0</b>	<b>1.1</b>	552				14	115	90	14	103	79	48	118	91	55	201	156	121	-						
<b>9</b>	<b>0</b>	0	4265	3308	2574	1930	91	6	0	190	7	114	89	1	6	618	1	6	7	711	3	9	0	0	941
1.1	1.1	551				14	115	89	14	103	79	48	118	91	55	201	155	120	-						
0	1	8	4262	3303	2569	1929	90	5	8	190	7	114	88	0	6	617	0	6	6	710	2	8	9	8	940
<b>1.1</b>	<b>1.1</b>	551				14	115	89	14	103	79	47	118	91	55	201	155	120	-						
<b>1</b>	<b>2</b>	5	4258	3299	2564	1928	88	3	6	190	7	114	88	0	5	616	9	5	5	709	1	7	7	7	938
1.1	1.1	551				14	115	89	14	102	79	47	118	91	55	201	155	120	-						
2	3	3	4254	3294	2560	1927	87	2	5	190	7	113	88	9	4	615	8	5	4	708	0	6	6	5	936
<b>1.1</b>	<b>1.1</b>	551				14	115	89	14	102	79	47	118	91	54	201	155	120	-						
<b>3</b>	<b>4</b>	0	4250	3290	2555	1926	86	0	3	190	6	113	88	9	4	614	7	4	3	707	9	5	5	3	935
1.1	1.1	550				14	114	89	14	102	79	47	118	91	54	201	155	120	-						
4	5	8	4246	3286	2551	1926	85	9	2	190	6	113	88	8	3	614	6	4	3	706	8	5	3	2	933
<b>1.1</b>	<b>1.1</b>	550				14	114	89	14	102	79	47	118	91	54	201	155	120	-						
<b>5</b>	<b>6</b>	5	4243	3281	2546	1925	83	7	0	190	6	113	88	8	2	613	5	3	2	705	7	4	2	0	931
1.1	1.1	550				14	114	88	14	102	79	47	118	91	54	201	155	119	-						
6	7	3	4239	3277	2542	1924	82	6	9	190	6	113	88	8	2	612	5	3	1	704	6	3	1	9	930
<b>1.1</b>	<b>1.1</b>	550				14	114	88	14	102	79	47	118	91	54	201	154	119	-						
<b>7</b>	<b>8</b>	1	4235	3273	2538	1923	81	4	7	189	6	113	87	7	1	611	4	2	0	703	5	2	9	7	928
1.1	1.1	549				14	114	88	14	102	79	47	118	90	54	201	154	119	-						
8	9	8	4232	3269	2533	1922	79	3	6	189	6	113	87	7	0	610	3	2	9	702	4	1	8	6	927

<b>1.1</b>	<b>1.2</b>	549					14	114	88		14		102	79		47	118	90		54	-	-	-		
<b>9</b>	<b>0</b>	6	4228	3265	2529	1921	78	1	4	189	6	112	87	6	0	610	2	1	9	702	3	201	154	119	-
																						0	7	4	925
1.2	1.2	549					14	114	88		14			102	78		47	118	90		54	200	154	119	-
0	1	4	4225	3261	2525	1921	77	0	3	189	6	112	87	6	9	609	1	1	8	701	3	9	5	3	924
																						-	-	-	-
<b>1.2</b>	<b>1.2</b>	549					14	113	88		14			102	78		47	118	90		54	200	154	119	-
<b>1</b>	<b>2</b>	1	4221	3257	2521	1920	76	8	1	189	5	112	87	5	8	608	1	0	7	700	2	9	4	1	922
																						-	-	-	-
1.2	1.2	548					14	113	88		14			102	78		47	118	90		54	200	154	119	-
2	3	9	4218	3253	2517	1919	75	7	0	189	5	112	87	5	8	607	0	0	6	699	1	8	3	0	920
																						-	-	-	-
<b>1.2</b>	<b>1.2</b>	548					14	113	87		14			102	78		46	117	90		54	200	154	118	-
<b>3</b>	<b>4</b>	7	4214	3249	2512	1918	73	6	8	189	5	112	87	5	7	607	9	9	6	698	0	7	2	8	919
																						-	-	-	-
1.2	1.2	548					14	113	87		14			102	78		46	117	90		53	200	154	118	-
4	5	5	4211	3245	2508	1917	72	4	7	189	5	112	86	4	6	606	8	9	5	697	9	6	0	7	918
																						-	-	-	-
1.2	<b>1.2</b>	548					14	113	87		14			102	78		46	117	90		53	200	153	118	-
5	<b>6</b>	3	4208	3241	2504	1917	71	3	6	189	5	112	86	4	6	605	8	8	4	696	8	5	9	5	916
																						-	-	-	-
<b>1.2</b>	1.2	548					14	113	87		14			102	78		46	117	90		53	200	153	118	-
<b>6</b>	7	0	4204	3237	2500	1916	70	2	4	189	5	111	86	3	5	604	7	8	3	696	7	5	8	4	915
																						-	-	-	-
1.2	<b>1.2</b>	547					14	113	87		14			102	78		46	117	90		53	200	153	118	-
7	<b>8</b>	8	4201	3233	2497	1915	69	0	3	189	5	111	86	3	4	604	6	7	3	695	6	4	7	3	913
																						-	-	-	-
<b>1.2</b>	1.2	547					14	112	87		14			102	78		46	117	90		53	200	153	118	-
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																						-	-	-	-
1.2	<b>1.3</b>	547					14	112	87		14			102	78		46	117	90		53	200	153	118	-
9	<b>0</b>	4	4194	3226	2489	1914	66	8	0	189	4	111	86	2	3	602	5	6	1	693	5	2	4	0	910
																						-	-	-	-
<b>1.3</b>	1.3	547					14	112	86		14			102	78		46	117	90		53	200	153	117	-
<b>0</b>	1	2	4191	3222	2485	1913	65	6	9	188	4	111	86	2	3	602	4	6	1	692	4	1	3	8	909
																						-	-	-	-
1.3	<b>1.3</b>	547					14	112	86		14			102	78		46	117	90		53	200	153	117	-
1	<b>2</b>	0	4188	3218	2481	1912	64	5	7	188	4	111	85	1	2	601	3	5	0	692	3	1	2	7	908
																						-	-	-	-
<b>1.3</b>	1.3	546					14	112	86		14			102	78		46	117	89		53	200	153	117	-
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																						-	-	-	-
1.3	<b>1.3</b>	546					14	112	86		14			102	78		46	117	89		53	199	153	117	-
3	<b>4</b>	6	4182	3211	2474	1911	62	3	5	188	4	111	85	1	1	600	2	5	9	690	2	9	0	4	905
																						-	-	-	-
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																						-	-	-	-
1.3	<b>1.3</b>	546					14	112	86		14			102	78		46	117	89		53	-	-	-	-
5	<b>6</b>	2	4176	3204	2466	1909	60	0	2	188	4	110	85	0	0	598	1	4	7	688	0	199	152	117	902

																				8	7	2			
1.3	1.3	546					14	111	86		14		101	77		46	117	89		52	199	152	117	-	
6	7	0	4172	3200	2463	1909	59	9	1	188	4	110	85	9	9	598	0	3	7	688	9	7	6	1	901
1.3	1.3	545					14	111	86		14		101	77		45	117	89		52	199	152	116	-	
7	8	8	4169	3197	2459	1908	58	8	0	188	4	110	85	9	9	597	9	3	6	687	8	6	5	9	899
1.3	1.3	545					14	111	85		14		101	77		45	117	89		52	199	152	116	-	
8	9	6	4166	3193	2456	1907	57	6	8	188	4	110	85	9	8	596	9	2	5	686	8	6	4	8	898
1.3	1.4	545					14	111	85		14		101	77		45	117	89		52	199	152	116	-	
9	0	4	4163	3190	2452	1907	56	5	7	188	3	110	84	8	7	596	8	2	5	685	7	5	3	7	897
1.4	1.4	545					14	111	85		14		101	77		45	117	89		52	199	152	116	-	
0	1	2	4160	3186	2449	1906	54	4	6	188	3	110	84	8	7	595	7	2	4	685	6	4	2	6	896
1.4	1.4	545					14	111	85		14		101	77		45	117	89		52	199	152	116	-	
1	2	0	4157	3183	2445	1905	53	3	5	188	3	110	84	8	6	594	7	1	3	684	5	3	1	4	894
1.4	1.4	544					14	111	85		14		101	77		45	117	89		52	199	152	116	-	
2	3	8	4155	3180	2442	1905	52	2	4	188	3	110	84	7	6	594	6	1	3	683	5	3	0	3	893
1.4	1.4	544					14	111	85		14		101	77		45	117	89		52	199	151	116	-	
3	4	6	4152	3176	2438	1904	51	0	2	188	3	109	84	7	5	593	5	0	2	683	4	2	9	2	892
1.4	1.4	544					14	110	85		14		101	77		45	117	89		52	199	151	116	-	
4	5	4	4149	3173	2435	1903	50	9	1	188	3	109	84	7	5	592	5	0	2	682	3	1	8	1	891
1.4	1.4	544					14	110	85		14		101	77		45	116	89		52	199	151	115	-	
5	6	2	4146	3170	2431	1903	49	8	0	187	3	109	84	6	4	592	4	9	1	681	3	1	6	9	889
1.4	1.4	544					14	110	84		14		101	77		45	116	89		52	199	151	115	-	
6	7	0	4143	3166	2428	1902	48	7	9	187	3	109	84	6	4	591	3	9	0	680	2	0	5	8	888
1.4	1.4	543					14	110	84		14		101	77		45	116	89		52	198	151	115	-	
7	8	8	4140	3163	2425	1901	47	6	8	187	3	109	84	5	3	591	3	9	0	680	1	9	4	7	887
1.4	1.4	543					14	110	84		14		101	77		45	116	88		52	198	151	115	-	
8	9	7	4137	3160	2422	1901	46	5	7	187	3	109	83	5	3	590	2	8	9	679	0	9	3	6	886
1.4	1.5	543					14	110	84		14		101	77		45	116	88		52	198	151	115	-	
9	0	5	4135	3157	2418	1900	45	4	5	187	2	109	83	5	2	589	2	8	9	678	0	8	2	5	885

**193N (South of Boston) --  
Congestion**

		ND (1)				ND (2)				ND (3)				ND (4)				ND (5)							
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
OP	NP	0.05	-0.1	-0.15	-0.2	-0.05	-0.1	0.15	-0.2	-0.05	-0.1	-0.15	-0.2	0.05	-0.1	0.15	-0.2	-0.05	-0.1	-0.15	-0.2	-0.05	-0.1	-0.15	-0.2

0.0	0.0	958	958					196	196	-	-	-	-	285	285	285	285	-	-	-	-
0	1	9	9	9589	9589	1969	1969	9	9	1120	1120	1120	1120	3	3	3	3	3103	3103	3103	3103
<b>0.0</b>	<b>0.0</b>	913	871					171	164	-	-	-	-	271	259	248	237	-	-	-	-
<b>1</b>	<b>2</b>	2	7	8338	7991	1875	1790	2	1	1067	1018	-974	-933	7	4	1	8	2955	2821	2698	2586
0.0	0.0	891	830					159	149	-	-	-	-	265	247	230	216	-	-	-	-
2	3	0	2	7757	7264	1830	1705	3	2	1041	-970	-906	-848	1	0	8	1	2883	2687	2510	2351
<b>0.0</b>	<b>0.0</b>	876	803					151	139	-	-	-	-	260	239	219	202	-	-	-	-
<b>3</b>	<b>4</b>	4	4	7387	6810	1800	1650	7	8	1024	-938	-863	-795	7	0	8	6	2836	2600	2390	2204
0.0	0.0	865	783					146	133	-	-	-	-	257	233	211	193	-	-	-	-
4	5	5	8	7120	6486	1777	1610	2	2	1011	-916	-832	-758	5	2	8	0	2801	2537	2304	2099
<b>0.0</b>	<b>0.0</b>	857	768					141	128	-	-	-	-	255	228	205	185	-	-	-	-
<b>5</b>	<b>6</b>	0	5	6913	6237	1760	1578	9	1	1001	-898	-807	-728	0	6	7	6	2773	2487	2237	2018
0.0	0.0	849	755					138	123	-	-	-	-	252	224	200	179	-	-	-	-
6	7	9	9	6744	6035	1745	1552	5	9	-993	-883	-788	-705	9	9	7	6	2750	2446	2182	1953
0.0	0.0	843	745					135	120	-	-	-	-	251	221	196	174	-	-	-	-
7	8	9	2	6603	5868	1733	1530	6	5	-986	-870	-771	-685	1	7	4	6	2731	2412	2137	1899
<b>0.0</b>	<b>0.0</b>	838	736					133	117	-	-	-	-	249	219	192	170	-	-	-	-
<b>8</b>	<b>9</b>	6	0	6481	5725	1722	1511	1	5	-980	-860	-757	-669	5	0	8	3	2714	2382	2097	1852
0.0	0.1	834	727					130	115	-	-	-	-	248	216	189	166	-	-	-	-
9	0	0	9	6375	5600	1712	1495	9	0	-974	-850	-745	-654	1	6	7	6	2699	2356	2063	1812
<b>0.1</b>	<b>0.1</b>	829	720					129	112	-	-	-	-	246	214	186	163	-	-	-	-
<b>0</b>	<b>1</b>	8	7	6281	5490	1704	1480	0	7	-969	-842	-734	-641	9	4	9	4	2685	2332	2032	1777
0.1	0.1	826	714					127	110	-	-	-	-	245	212	184	160	-	-	-	-
1	2	1	2	6196	5392	1696	1467	2	7	-965	-834	-724	-630	8	5	4	4	2673	2311	2005	1745
<b>0.1</b>	<b>0.1</b>	822	708					125	108	-	-	-	-	244	210	182	157	-	-	-	-
<b>2</b>	<b>3</b>	7	3	6120	5304	1689	1454	7	9	-961	-827	-715	-620	8	7	1	8	2662	2292	1980	1716
0.1	0.1	819	702					124	107	-	-	-	-	243	209	180	155	-	-	-	-
3	4	5	9	6050	5224	1683	1443	2	3	-957	-821	-707	-610	8	1	0	4	2652	2275	1958	1690
0.1	0.1	816	697					122	105	-	-	-	-	243	207	178	153	-	-	-	-
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1.0	1.0	740	574										220	171	133	104	-	-	-	-	
1	2	9	7	4474	3494	1521	1180	919	717	-865	-671	-523	-408	5	0	1	0	2398	1860	1448	1131
1.0	1.0	740	574										220	170	132	103	-	-	-	-	
2	3	6	1	4467	3487	1521	1179	917	716	-865	-671	-522	-407	3	8	9	8	2397	1858	1446	1128
1.0	1.0	740	573										220	170	132	103	-	-	-	-	
3	4	2	6	4461	3480	1520	1178	916	715	-865	-670	-521	-407	2	7	7	6	2395	1856	1443	1126
1.0	1.0	739	573										220	170	132	103	-	-	-	-	
4	5	9	0	4454	3474	1519	1177	915	713	-864	-669	-520	-406	1	5	5	4	2394	1854	1441	1124
1.0	1.0	739	572										220	170	132	103	-	-	-	-	
5	6	5	5	4448	3467	1519	1176	913	712	-864	-669	-519	-405	0	3	3	2	2393	1853	1439	1122
1.0	1.0	739	572										219	170	132	103	-	-	-	-	
6	7	2	0	4441	3461	1518	1174	912	711	-863	-668	-519	-404	9	2	1	0	2392	1851	1437	1120
1.0	1.0	738	571										219	170	132	102	-	-	-	-	
7	8	8	4	4435	3454	1517	1173	911	709	-863	-667	-518	-403	8	0	0	8	2391	1849	1435	1118
1.0	1.0	738	570										219	169	131	102	-	-	-	-	
8	9	5	9	4429	3448	1516	1172	909	708	-863	-667	-517	-403	7	9	8	6	2390	1847	1433	1116
1.0	1.1	738	570										219	169	131	102	-	-	-	-	
9	0	1	4	4423	3441	1516	1171	908	707	-862	-666	-517	-402	6	7	6	4	2389	1846	1431	1114
1.1	1.1	737	569										219	169	131	102	-	-	-	-	
0	1	8	8	4417	3435	1515	1170	907	705	-862	-666	-516	-401	5	5	4	2	2388	1844	1429	1112
1.1	1.1	737	569										219	169	131	102	-	-	-	-	
1	2	5	3	4411	3429	1514	1169	906	704	-861	-665	-515	-401	4	4	2	0	2386	1842	1427	1110
1.1	1.1	737	568										219	169	131	101	-	-	-	-	
2	3	1	8	4405	3423	1514	1168	905	703	-861	-664	-515	-400	3	2	1	8	2385	1841	1425	1108
1.1	1.1	736	568										219	169	130	101	-	-	-	-	
3	4	8	3	4399	3417	1513	1167	903	702	-861	-664	-514	-399	2	1	9	7	2384	1839	1424	1106
1.1	1.1	736	567										219	168	130	101	-	-	-	-	
4	5	5	8	4393	3411	1512	1166	902	700	-860	-663	-513	-398	1	9	7	5	2383	1837	1422	1104
1.1	1.1	736	567										219	168	130	101	-	-	-	-	
5	6	2	3	4388	3405	1512	1165	901	699	-860	-663	-512	-398	0	8	5	3	2382	1836	1420	1102
1.1	1.1	735	566										218	168	130	101	-	-	-	-	
6	7	9	8	4382	3399	1511	1164	900	698	-859	-662	-512	-397	9	7	4	1	2381	1834	1418	1100
1.1	1.1	735	566										218	168	130	101	-	-	-	-	
7	8	5	4	4376	3393	1510	1163	899	697	-859	-662	-511	-396	8	5	2	0	2380	1833	1416	1098
1.1	1.1	735	565										218	168	130	100	-	-	-	-	
8	9	2	9	4371	3387	1510	1162	898	696	-859	-661	-511	-396	8	4	0	8	2379	1831	1414	1096
1.1	1.2	734	565										218	168	129	100	-	-	-	-	
9	0	9	4	4365	3382	1509	1161	896	694	-858	-660	-510	-395	7	2	9	6	2378	1830	1413	1094
1.2	1.2	734	564										218	168	129	100	-	-	-	-	
0	1	6	9	4360	3376	1508	1160	895	693	-858	-660	-509	-394	6	1	7	5	2377	1828	1411	1093
1.2	1.2	734	564										218	167	129	100	-	-	-	-	
1	2	3	5	4355	3371	1508	1159	894	692	-858	-659	-509	-394	5	9	6	3	2376	1827	1409	1091
1.2	1.2	734	564										218	167	129	100	-	-	-	-	
2	3	0	0	4349	3365	1507	1158	893	691	-857	-659	-508	-393	4	8	4	1	2375	1825	1407	1089
1.2	1.2	733	563										218	167	129	100	-	-	-	-	
3	4	7	5	4344	3360	1507	1157	892	690	-857	-658	-507	-392	3	7	2	0	2374	1824	1406	1087
1.2	1.2	733	563										218	167	129	100	-	-	-	-	
4	5	4	1	4339	3354	1506	1156	891	689	-857	-658	-507	-392	2	5	1	998	2373	1822	1404	1085

1.2	1.2	733	562											218	167	128					
5	6	1	6	4333	3349	1505	1155	890	688	-856	-657	-506	-391	1	4	9	996	2372	1821	1402	1084
1.2	1.2	732	562											218	167	128					
6	7	8	2	4328	3344	1505	1154	889	687	-856	-657	-506	-391	0	3	8	995	2371	1819	1401	1082
<b>1.2</b>	<b>1.2</b>	732	561											218	167	128					
<b>7</b>	<b>8</b>	5	8	4323	3338	1504	1154	888	685	-856	-656	-505	-390	0	1	6	993	2370	1818	1399	1080
1.2	1.2	732	561											217	167	128					
8	9	3	3	4318	3333	1504	1153	887	684	-855	-656	-504	-389	9	0	5	992	2370	1816	1397	1079
<b>1.2</b>	<b>1.3</b>	732	560											217	166	128					
<b>9</b>	<b>0</b>	0	9	4313	3328	1503	1152	886	683	-855	-655	-504	-389	8	9	3	990	2369	1815	1396	1077
1.3	1.3	731	560											217	166	128					
0	1	7	4	4308	3323	1502	1151	885	682	-855	-655	-503	-388	7	7	2	989	2368	1814	1394	1075
<b>1.3</b>	<b>1.3</b>	731	560											217	166	128					
<b>1</b>	<b>2</b>	4	0	4303	3318	1502	1150	884	681	-854	-654	-503	-388	6	6	0	987	2367	1812	1393	1074
1.3	1.3	731	559											217	166	127					
2	3	1	6	4298	3313	1501	1149	883	680	-854	-654	-502	-387	5	5	9	986	2366	1811	1391	1072
1.3	1.3	730	559											217	166	127					
3	4	9	2	4294	3308	1501	1148	882	679	-854	-653	-501	-386	5	4	7	984	2365	1809	1389	1070
<b>1.3</b>	<b>1.3</b>	730	558											217	166	127					
<b>4</b>	<b>5</b>	6	8	4289	3303	1500	1147	881	678	-853	-653	-501	-386	4	2	6	983	2364	1808	1388	1069
1.3	1.3	730	558											217	166	127					
5	6	3	3	4284	3298	1500	1147	880	677	-853	-652	-500	-385	3	1	5	981	2363	1807	1386	1067
<b>1.3</b>	<b>1.3</b>	730	557											217	166	127					
<b>6</b>	<b>7</b>	0	9	4279	3293	1499	1146	879	676	-853	-652	-500	-385	2	0	3	980	2362	1805	1385	1066
1.3	1.3	729	557											217	165	127					
7	8	8	5	4275	3288	1499	1145	878	675	-852	-651	-499	-384	1	9	2	978	2362	1804	1383	1064
<b>1.3</b>	<b>1.3</b>	729	557											217	165	127					
<b>8</b>	<b>9</b>	5	1	4270	3284	1498	1144	877	674	-852	-651	-499	-384	1	8	0	977	2361	1803	1382	1063
1.3	1.4	729	556											217	165	126					
9	0	3	7	4265	3279	1497	1143	876	673	-852	-650	-498	-383	0	6	9	976	2360	1802	1380	1061
1.4	1.4	729	556											216	165	126					
0	1	0	3	4261	3274	1497	1142	875	672	-851	-650	-498	-382	9	5	8	974	2359	1800	1379	1060
<b>1.4</b>	<b>1.4</b>	728	555											216	165	126					
<b>1</b>	<b>2</b>	7	9	4256	3270	1496	1142	874	671	-851	-649	-497	-382	8	4	6	973	2358	1799	1377	1058
1.4	1.4	728	555											216	165	126					
2	3	5	5	4252	3265	1496	1141	873	670	-851	-649	-497	-381	7	3	5	971	2357	1798	1376	1057
<b>1.4</b>	<b>1.4</b>	728	555											216	165	126					
<b>3</b>	<b>4</b>	2	2	4247	3260	1495	1140	872	669	-851	-648	-496	-381	7	2	4	970	2357	1796	1374	1055
1.4	1.4	728	554											216	165	126					
4	5	0	8	4243	3256	1495	1139	871	669	-850	-648	-496	-380	6	1	2	969	2356	1795	1373	1054
<b>1.4</b>	<b>1.4</b>	727	554											216	164	126					
<b>5</b>	<b>6</b>	7	4	4238	3251	1494	1138	870	668	-850	-648	-495	-380	5	9	1	967	2355	1794	1372	1052
1.4	1.4	727	554											216	164	126					
6	7	5	0	4234	3247	1494	1138	869	667	-850	-647	-495	-379	4	8	0	966	2354	1793	1370	1051
1.4	1.4	727	553											216	164	125					
7	8	2	6	4230	3242	1493	1137	869	666	-849	-647	-494	-379	4	7	8	965	2353	1792	1369	1049
<b>1.4</b>	<b>1.4</b>	727	553											216	164	125					
<b>8</b>	<b>9</b>	0	3	4226	3238	1493	1136	868	665	-849	-646	-494	-378	3	6	7	963	2352	1790	1367	1048
<b>1.4</b>	<b>1.5</b>	<b>726</b>	<b>552</b>											<b>216</b>	<b>164</b>	<b>125</b>					
<b>9</b>	<b>0</b>	<b>7</b>	<b>9</b>	<b>4221</b>	<b>3234</b>	<b>1492</b>	<b>1135</b>	<b>867</b>	<b>664</b>	<b>-849</b>	<b>-646</b>	<b>-493</b>	<b>-378</b>	<b>2</b>	<b>5</b>	<b>6</b>	<b>962</b>	<b>2352</b>	<b>1789</b>	<b>1366</b>	<b>1046</b>

**193N (South of Boston) -- Congestion**

OP	NP	ND (1)				ND (2)				ND (3)				ND (4)				ND (5)			
		-0.05	-0.1	-0.15	-0.2	-0.05	-0.1	-0.15	-0.2	-0.05	-0.1	-0.15	-0.2	-0.05	-0.1	-0.15	-0.2	-0.05	-0.1	-0.15	-0.2
0.00	0.01	13483	13483	13483	13483	634	634	634	634	589	589	589	589	1373	1373	1373	1373	-17	-17	-17	-17
<b>0.01</b>	<b>0.02</b>	12841	12257	11724	11236	604	576	551	528	561	535	512	491	1308	1248	1194	1144	-16	-15	-15	-14
0.02	0.03	12528	11674	10906	10214	589	549	513	480	547	510	476	446	1276	1189	1111	1040	-16	-15	-14	-13
<b>0.03</b>	<b>0.04</b>	12322	11297	10387	9576	579	531	488	450	538	494	454	418	1255	1150	1058	975	-16	-14	-13	-12
0.04	0.05	12170	11021	10012	9120	572	518	471	429	532	481	437	398	1239	1122	1019	929	-15	-14	-13	-11
<b>0.05</b>	<b>0.06</b>	12050	10805	9720	8769	567	508	457	412	526	472	425	383	1227	1100	990	893	-15	-14	-12	-11
0.06	0.07	11950	10628	9483	8486	562	500	446	399	522	464	414	371	1217	1082	966	864	-15	-13	-12	-11
<b>0.07</b>	<b>0.08</b>	11865	10479	9284	8251	558	493	437	388	518	458	406	360	1208	1067	945	840	-15	-13	-12	-10
0.08	0.09	11792	10349	9113	8049	554	487	429	378	515	452	398	352	1201	1054	928	820	-15	-13	-11	-10
<b>0.09</b>	<b>0.10</b>	11727	10235	8964	7874	551	481	421	370	512	447	392	344	1194	1042	913	802	-15	-13	-11	-10
0.10	0.11	11668	10134	8831	7720	549	477	415	363	510	443	386	337	1188	1032	899	786	-15	-13	-11	-10
<b>0.11</b>	<b>0.12</b>	11615	10043	8712	7582	546	472	410	357	507	439	381	331	1183	1023	887	772	-15	-13	-11	-10
0.12	0.13	11567	9960	8605	7458	544	468	405	351	505	435	376	326	1178	1014	876	759	-15	-13	-11	-9
<b>0.13</b>	<b>0.14</b>	11523	9884	8507	7345	542	465	400	345	503	432	372	321	1173	1006	866	748	-15	-12	-11	-9
0.14	0.15	11482	9814	8417	7241	540	461	396	341	502	429	368	316	1169	999	857	737	-14	-12	-11	-9
<b>0.15</b>	<b>0.16</b>	11444	9749	8333	7146	538	458	392	336	500	426	364	312	1165	993	849	728	-14	-12	-11	-9
0.16	0.17	11408	9688	8256	7058	536	456	388	332	498	423	361	308	1162	987	841	719	-14	-12	-10	-9
<b>0.17</b>	<b>0.18</b>	11375	9631	8184	6976	535	453	385	328	497	421	357	305	1158	981	833	710	-14	-12	-10	-9
0.18	0.19	11343	9578	8116	6899	533	450	382	324	496	418	355	301	1155	975	826	703	-14	-12	-10	-9
<b>0.19</b>	<b>0.20</b>	11313	9528	8052	6827	532	448	379	321	494	416	352	298	1152	970	820	695	-14	-12	-10	-9
0.20	0.21	11285	9481	7992	6760	531	446	376	318	493	414	349	295	1149	965	814	688	-14	-12	-10	-9
<b>0.21</b>	<b>0.22</b>	11258	9436	7936	6696	529	444	373	315	492	412	347	293	1146	961	808	682	-14	-12	-10	-8
0.22	0.23	11233	9393	7882	6636	528	442	371	312	491	410	344	290	1144	957	803	676	-14	-12	-10	-8
<b>0.23</b>	<b>0.24</b>	11208	9352	7831	6578	527	440	368	309	490	409	342	287	1141	952	797	670	-14	-12	-10	-8
0.24	0.25	11185	9314	7782	6524	526	438	366	307	489	407	340	285	1139	948	792	664	-14	-12	-10	-8
<b>0.25</b>	<b>0.26</b>	11163	9277	7736	6472	525	436	364	304	488	405	338	283	1137	945	788	659	-14	-12	-10	-8
0.26	0.27	11141	9241	7692	6423	524	435	362	302	487	404	336	281	1135	941	783	654	-14	-12	-10	-8
<b>0.27</b>	<b>0.28</b>	11121	9207	7649	6376	523	433	360	300	486	402	334	279	1132	938	779	649	-14	-12	-10	-8
0.28	0.29	11101	9174	7608	6330	522	431	358	298	485	401	332	277	1130	934	775	645	-14	-12	-10	-8
<b>0.29</b>	<b>0.30</b>	11082	9143	7569	6287	521	430	356	296	484	399	331	275	1128	931	771	640	-14	-12	-10	-8
0.30	0.31	11063	9112	7531	6245	520	428	354	294	483	398	329	273	1127	928	767	636	-14	-11	-9	-8
<b>0.31</b>	<b>0.32</b>	11046	9083	7495	6205	519	427	352	292	483	397	327	271	1125	925	763	632	-14	-11	-9	-8

0.32	0.33	11028	9055	7460	6167	519	426	351	290	482	396	326	269	1123	922	760	628	-14	-11	-9	-8
<b>0.33</b>	<b>0.34</b>	11012	9027	7426	6130	518	424	349	288	481	394	324	268	1121	919	756	624	-14	-11	-9	-8
0.34	0.35	10996	9001	7394	6094	517	423	348	287	480	393	323	266	1120	917	753	621	-14	-11	-9	-8
<b>0.35</b>	<b>0.36</b>	10980	8975	7362	6059	516	422	346	285	480	392	322	265	1118	914	750	617	-14	-11	-9	-8
0.36	0.37	10965	8950	7332	6026	516	421	345	283	479	391	320	263	1117	911	747	614	-14	-11	-9	-8
<b>0.37</b>	<b>0.38</b>	10950	8926	7302	5993	515	420	343	282	478	390	319	262	1115	909	744	610	-14	-11	-9	-8
0.38	0.39	10935	8903	7273	5962	514	419	342	280	478	389	318	260	1114	907	741	607	-14	-11	-9	-8
<b>0.39</b>	<b>0.40</b>	10921	8880	7246	5932	514	418	341	279	477	388	317	259	1112	904	738	604	-14	-11	-9	-7
0.40	0.41	10908	8858	7218	5902	513	417	339	278	477	387	315	258	1111	902	735	601	-14	-11	-9	-7
<b>0.41</b>	<b>0.42</b>	10895	8836	7192	5873	512	416	338	276	476	386	314	257	1109	900	732	598	-14	-11	-9	-7
0.42	0.43	10882	8815	7167	5846	512	415	337	275	475	385	313	255	1108	898	730	595	-14	-11	-9	-7
<b>0.43</b>	<b>0.44</b>	10869	8795	7142	5818	511	414	336	274	475	384	312	254	1107	896	727	593	-14	-11	-9	-7
0.44	0.45	10857	8775	7117	5792	511	413	335	272	474	383	311	253	1106	894	725	590	-14	-11	-9	-7
<b>0.45</b>	<b>0.46</b>	10845	8755	7094	5767	510	412	334	271	474	382	310	252	1104	892	722	587	-14	-11	-9	-7
0.46	0.47	10833	8736	7071	5742	509	411	332	270	473	382	309	251	1103	890	720	585	-14	-11	-9	-7
<b>0.47</b>	<b>0.48</b>	10821	8718	7048	5717	509	410	331	269	473	381	308	250	1102	888	718	582	-14	-11	-9	-7
0.48	0.49	10810	8700	7026	5694	508	409	330	268	472	380	307	249	1101	886	715	580	-14	-11	-9	-7
<b>0.49</b>	<b>0.50</b>	10799	8682	7005	5670	508	408	329	267	472	379	306	248	1100	884	713	577	-14	-11	-9	-7
0.50	0.51	10788	8665	6984	5648	507	407	328	266	471	379	305	247	1099	882	711	575	-14	-11	-9	-7
<b>0.51</b>	<b>0.52</b>	10778	8648	6963	5626	507	407	327	265	471	378	304	246	1098	881	709	573	-14	-11	-9	-7
0.52	0.53	10767	8631	6943	5604	506	406	326	264	470	377	303	245	1096	879	707	571	-14	-11	-9	-7
<b>0.53</b>	<b>0.54</b>	10757	8615	6924	5583	506	405	326	263	470	376	302	244	1095	877	705	569	-14	-11	-9	-7
0.54	0.55	10747	8599	6905	5562	505	404	325	262	469	376	302	243	1094	876	703	566	-14	-11	-9	-7
<b>0.55</b>	<b>0.56</b>	10737	8583	6886	5542	505	404	324	261	469	375	301	242	1093	874	701	564	-14	-11	-9	-7
0.56	0.57	10728	8568	6867	5523	504	403	323	260	469	374	300	241	1092	873	699	562	-14	-11	-9	-7
<b>0.57</b>	<b>0.58</b>	10718	8553	6849	5503	504	402	322	259	468	374	299	240	1091	871	697	560	-14	-11	-9	-7
0.58	0.59	10709	8538	6832	5484	504	401	321	258	468	373	298	240	1091	869	696	558	-14	-11	-9	-7
<b>0.59</b>	<b>0.60</b>	10700	8524	6814	5466	503	401	320	257	467	372	298	239	1090	868	694	557	-13	-11	-9	-7
0.60	0.61	10691	8510	6797	5448	503	400	320	256	467	372	297	238	1089	867	692	555	-13	-11	-9	-7
<b>0.61</b>	<b>0.62</b>	10682	8496	6781	5430	502	399	319	255	467	371	296	237	1088	865	690	553	-13	-11	-9	-7
0.62	0.63	10674	8482	6764	5412	502	399	318	255	466	371	295	236	1087	864	689	551	-13	-11	-9	-7
<b>0.63</b>	<b>0.64</b>	10665	8469	6748	5395	502	398	317	254	466	370	295	236	1086	862	687	549	-13	-11	-9	-7
0.64	0.65	10657	8455	6733	5379	501	398	317	253	466	369	294	235	1085	861	686	548	-13	-11	-8	-7
<b>0.65</b>	<b>0.66</b>	10649	8442	6717	5362	501	397	316	252	465	369	293	234	1084	860	684	546	-13	-11	-8	-7
0.66	0.67	10641	8430	6702	5346	500	396	315	251	465	368	293	234	1084	858	682	544	-13	-11	-8	-7
<b>0.67</b>	<b>0.68</b>	10633	8417	6687	5330	500	396	314	251	464	368	292	233	1083	857	681	543	-13	-11	-8	-7

0.68	0.69	10625	8405	6672	5314	500	395	314	250	464	367	291	232	1082	856	679	541	-13	-11	-8	-7
<b>0.69</b>	<b>0.70</b>	10617	8393	6658	5299	499	395	313	249	464	367	291	231	1081	855	678	540	-13	-11	-8	-7
0.70	0.71	10610	8381	6643	5284	499	394	312	248	463	366	290	231	1080	853	677	538	-13	-11	-8	-7
<b>0.71</b>	<b>0.72</b>	10602	8369	6629	5269	499	394	312	248	463	366	290	230	1080	852	675	537	-13	-11	-8	-7
0.72	0.73	10595	8357	6616	5254	498	393	311	247	463	365	289	230	1079	851	674	535	-13	-11	-8	-7
<b>0.73</b>	<b>0.74</b>	10588	8346	6602	5240	498	392	310	246	463	365	288	229	1078	850	672	534	-13	-11	-8	-7
0.74	0.75	10581	8335	6589	5226	498	392	310	246	462	364	288	228	1077	849	671	532	-13	-11	-8	-7
<b>0.75</b>	<b>0.76</b>	10574	8323	6576	5212	497	391	309	245	462	364	287	228	1077	848	670	531	-13	-10	-8	-7
0.76	0.77	10567	8313	6563	5198	497	391	309	244	462	363	287	227	1076	846	668	529	-13	-10	-8	-7
<b>0.77</b>	<b>0.78</b>	10560	8302	6550	5185	497	390	308	244	461	363	286	226	1075	845	667	528	-13	-10	-8	-7
0.78	0.79	10553	8291	6537	5172	496	390	307	243	461	362	286	226	1075	844	666	527	-13	-10	-8	-7
<b>0.79</b>	<b>0.80</b>	10546	8281	6525	5159	496	389	307	243	461	362	285	225	1074	843	664	525	-13	-10	-8	-7
0.80	0.81	10540	8270	6513	5146	496	389	306	242	460	361	285	225	1073	842	663	524	-13	-10	-8	-6
<b>0.81</b>	<b>0.82</b>	10533	8260	6501	5133	495	388	306	241	460	361	284	224	1073	841	662	523	-13	-10	-8	-6
0.82	0.83	10527	8250	6489	5121	495	388	305	241	460	360	283	224	1072	840	661	521	-13	-10	-8	-6
<b>0.83</b>	<b>0.84</b>	10520	8240	6477	5108	495	387	305	240	460	360	283	223	1071	839	660	520	-13	-10	-8	-6
0.84	0.85	10514	8230	6465	5096	494	387	304	240	459	360	282	223	1071	838	658	519	-13	-10	-8	-6
<b>0.85</b>	<b>0.86</b>	10508	8221	6454	5084	494	387	303	239	459	359	282	222	1070	837	657	518	-13	-10	-8	-6
0.86	0.87	10502	8211	6443	5072	494	386	303	239	459	359	281	222	1069	836	656	517	-13	-10	-8	-6
<b>0.87</b>	<b>0.88</b>	10496	8202	6432	5061	494	386	302	238	459	358	281	221	1069	835	655	515	-13	-10	-8	-6
0.88	0.89	10490	8192	6421	5049	493	385	302	237	458	358	280	221	1068	834	654	514	-13	-10	-8	-6
<b>0.89</b>	<b>0.90</b>	10484	8183	6410	5038	493	385	301	237	458	357	280	220	1068	833	653	513	-13	-10	-8	-6
0.90	0.91	10478	8174	6399	5027	493	384	301	236	458	357	280	220	1067	832	652	512	-13	-10	-8	-6
<b>0.91</b>	<b>0.92</b>	10472	8165	6389	5016	492	384	300	236	457	357	279	219	1066	831	651	511	-13	-10	-8	-6
0.92	0.93	10467	8156	6378	5005	492	384	300	235	457	356	279	219	1066	831	650	510	-13	-10	-8	-6
<b>0.93</b>	<b>0.94</b>	10461	8147	6368	4994	492	383	299	235	457	356	278	218	1065	830	648	509	-13	-10	-8	-6
0.94	0.95	10456	8139	6358	4983	492	383	299	234	457	356	278	218	1065	829	647	507	-13	-10	-8	-6
<b>0.95</b>	<b>0.96</b>	10450	8130	6348	4973	491	382	298	234	457	355	277	217	1064	828	646	506	-13	-10	-8	-6
0.96	0.97	10445	8122	6338	4963	491	382	298	233	456	355	277	217	1064	827	645	505	-13	-10	-8	-6
<b>0.97</b>	<b>0.98</b>	10439	8113	6328	4952	491	382	298	233	456	354	276	216	1063	826	644	504	-13	-10	-8	-6
0.98	0.99	10434	8105	6319	4942	491	381	297	232	456	354	276	216	1063	825	643	503	-13	-10	-8	-6
<b>0.99</b>	<b>1.00</b>	10429	8097	6309	4932	490	381	297	232	456	354	276	215	1062	825	642	502	-13	-10	-8	-6
1.00	1.01	10423	8089	6300	4923	490	380	296	231	455	353	275	215	1061	824	642	501	-13	-10	-8	-6
<b>1.01</b>	<b>1.02</b>	10418	8081	6290	4913	490	380	296	231	455	353	275	215	1061	823	641	500	-13	-10	-8	-6
1.02	1.03	10413	8073	6281	4903	490	380	295	231	455	353	274	214	1060	822	640	499	-13	-10	-8	-6
<b>1.03</b>	<b>1.04</b>	10408	8065	6272	4894	489	379	295	230	455	352	274	214	1060	821	639	498	-13	-10	-8	-6

1.04	1.05	10403	8057	6263	4884	489	379	294	230	454	352	274	213	1059	821	638	497	-13	-10	-8	-6
<b>1.05</b>	<b>1.06</b>	10398	8050	6254	4875	489	379	294	229	454	352	273	213	1059	820	637	496	-13	-10	-8	-6
1.06	1.07	10393	8042	6245	4866	489	378	294	229	454	351	273	213	1058	819	636	495	-13	-10	-8	-6
<b>1.07</b>	<b>1.08</b>	10388	8035	6236	4857	488	378	293	228	454	351	272	212	1058	818	635	495	-13	-10	-8	-6
1.08	1.09	10384	8027	6228	4848	488	377	293	228	454	351	272	212	1057	817	634	494	-13	-10	-8	-6
<b>1.09</b>	<b>1.10</b>	10379	8020	6219	4839	488	377	292	228	453	350	272	211	1057	817	633	493	-13	-10	-8	-6
1.10	1.11	10374	8013	6211	4830	488	377	292	227	453	350	271	211	1056	816	632	492	-13	-10	-8	-6
<b>1.11</b>	<b>1.12</b>	10369	8005	6202	4821	488	376	292	227	453	350	271	211	1056	815	632	491	-13	-10	-8	-6
1.12	1.13	10365	7998	6194	4813	487	376	291	226	453	349	271	210	1055	814	631	490	-13	-10	-8	-6
<b>1.13</b>	<b>1.14</b>	10360	7991	6186	4804	487	376	291	226	453	349	270	210	1055	814	630	489	-13	-10	-8	-6
1.14	1.15	10356	7984	6178	4796	487	375	290	226	452	349	270	210	1055	813	629	488	-13	-10	-8	-6
<b>1.15</b>	<b>1.16</b>	10351	7977	6170	4788	487	375	290	225	452	348	270	209	1054	812	628	488	-13	-10	-8	-6
1.16	1.17	10347	7970	6162	4779	487	375	290	225	452	348	269	209	1054	812	627	487	-13	-10	-8	-6
<b>1.17</b>	<b>1.18</b>	10342	7964	6154	4771	486	374	289	224	452	348	269	208	1053	811	627	486	-13	-10	-8	-6
1.18	1.19	10338	7957	6146	4763	486	374	289	224	452	348	268	208	1053	810	626	485	-13	-10	-8	-6
<b>1.19</b>	<b>1.20</b>	10334	7950	6138	4755	486	374	289	224	451	347	268	208	1052	810	625	484	-13	-10	-8	-6
1.20	1.21	10329	7943	6131	4747	486	374	288	223	451	347	268	207	1052	809	624	483	-13	-10	-8	-6
<b>1.21</b>	<b>1.22</b>	10325	7937	6123	4739	486	373	288	223	451	347	267	207	1051	808	624	483	-13	-10	-8	-6
1.22	1.23	10321	7930	6115	4732	485	373	288	222	451	346	267	207	1051	808	623	482	-13	-10	-8	-6
<b>1.23</b>	<b>1.24</b>	10317	7924	6108	4724	485	373	287	222	451	346	267	206	1051	807	622	481	-13	-10	-8	-6
1.24	1.25	10312	7918	6101	4716	485	372	287	222	450	346	267	206	1050	806	621	480	-13	-10	-8	-6
<b>1.25</b>	<b>1.26</b>	10308	7911	6093	4709	485	372	287	221	450	346	266	206	1050	806	620	480	-13	-10	-8	-6
1.26	1.27	10304	7905	6086	4701	485	372	286	221	450	345	266	205	1049	805	620	479	-13	-10	-8	-6
<b>1.27</b>	<b>1.28</b>	10300	7899	6079	4694	484	371	286	221	450	345	266	205	1049	804	619	478	-13	-10	-8	-6
1.28	1.29	10296	7893	6072	4687	484	371	286	220	450	345	265	205	1048	804	618	477	-13	-10	-8	-6
<b>1.29</b>	<b>1.30</b>	10292	7886	6065	4679	484	371	285	220	450	345	265	204	1048	803	618	477	-13	-10	-8	-6
1.30	1.31	10288	7880	6058	4672	484	371	285	220	449	344	265	204	1048	802	617	476	-13	-10	-8	-6
<b>1.31</b>	<b>1.32</b>	10284	7874	6051	4665	484	370	285	219	449	344	264	204	1047	802	616	475	-13	-10	-8	-6
1.32	1.33	10280	7868	6044	4658	483	370	284	219	449	344	264	203	1047	801	615	474	-13	-10	-8	-6
<b>1.33</b>	<b>1.34</b>	10277	7863	6037	4651	483	370	284	219	449	343	264	203	1046	801	615	474	-13	-10	-8	-6
1.34	1.35	10273	7857	6030	4644	483	369	284	218	449	343	263	203	1046	800	614	473	-13	-10	-8	-6
<b>1.35</b>	<b>1.36</b>	10269	7851	6024	4637	483	369	283	218	449	343	263	203	1046	799	613	472	-13	-10	-8	-6
1.36	1.37	10265	7845	6017	4630	483	369	283	218	448	343	263	202	1045	799	613	472	-13	-10	-8	-6
<b>1.37</b>	<b>1.38</b>	10261	7839	6010	4624	483	369	283	217	448	342	263	202	1045	798	612	471	-13	-10	-8	-6
1.38	1.39	10258	7834	6004	4617	482	368	282	217	448	342	262	202	1045	798	611	470	-13	-10	-8	-6
<b>1.39</b>	<b>1.40</b>	10254	7828	5997	4610	482	368	282	217	448	342	262	201	1044	797	611	469	-13	-10	-8	-6

1.40	1.41	10250	7822	5991	4604	482	368	282	216	448	342	262	201	1044	797	610	469	-13	-10	-8	-6
<b>1.41</b>	<b>1.42</b>	10247	7817	5985	4597	482	368	281	216	448	341	261	201	1043	796	609	468	-13	-10	-8	-6
1.42	1.43	10243	7811	5978	4591	482	367	281	216	447	341	261	201	1043	795	609	467	-13	-10	-8	-6
<b>1.43</b>	<b>1.44</b>	10239	7806	5972	4584	481	367	281	216	447	341	261	200	1043	795	608	467	-13	-10	-8	-6
1.44	1.45	10236	7801	5966	4578	481	367	281	215	447	341	261	200	1042	794	608	466	-13	-10	-8	-6
<b>1.45</b>	<b>1.46</b>	10232	7795	5960	4572	481	367	280	215	447	341	260	200	1042	794	607	466	-13	-10	-8	-6
1.46	1.47	10229	7790	5954	4565	481	366	280	215	447	340	260	199	1042	793	606	465	-13	-10	-8	-6
<b>1.47</b>	<b>1.48</b>	10225	7785	5948	4559	481	366	280	214	447	340	260	199	1041	793	606	464	-13	-10	-7	-6
1.48	1.49	10222	7779	5941	4553	481	366	279	214	447	340	260	199	1041	792	605	464	-13	-10	-7	-6
<b>1.49</b>	<b>1.50</b>	<b>10219</b>	<b>7774</b>	<b>5936</b>	<b>4547</b>	<b>480</b>	<b>366</b>	<b>279</b>	<b>214</b>	<b>446</b>	<b>340</b>	<b>259</b>	<b>199</b>	<b>1041</b>	<b>792</b>	<b>604</b>	<b>463</b>	<b>-13</b>	<b>-10</b>	<b>-7</b>	<b>-6</b>



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