## Intercity Passenger Rail Productivity in the Northeast Corridor: Implications for the Future of High-Speed Rail

by

Andrés Felipe Archila Téllez

B. S. Mechanical Engineering, Universidad de los Andes, Colombia (2009)

Submitted to the Department of Civil and Environmental Engineering in partial fulfillment of the requirements for the degree of

## MASTER OF SCIENCE IN TRANSPORTATION

at the

## MASSACHUSETTS INSTITUTE OF TECHNOLOGY

June 2013

© Massachusetts Institute of Technology 2013. All rights reserved.

Chair, Departmental Committee for Graduate Students

ARCHIVES MASSACHUSETTS INSTITUTE OF TECHNOLOGY JUL 0 8 2013 LIBRARIES

# Intercity Passenger Rail Productivity in the Northeast Corridor: Implications for the Future of High-Speed Rail

by

Andrés Felipe Archila Téllez

Submitted to the Department of Civil and Environmental Engineering on May 24, 2013, in

partial fulfillment of the requirements for the degree of Master of Science in Transportation

## Abstract

The ongoing discussion about the future implementation of high-speed rail (HSR) in the Northeast Corridor (NEC) is full of questions on the feasibility of HSR and the ability of Amtrak to implement it. Indeed, the introduction of the Acela Express in the past decade was not free from operating problems, but even with trains running below their full potential, the Amtrak NEC had substantial market growth. Thus, it is not clear if a true HSR service is feasible in the NEC, and if the current prospects are potentially effective.

To evaluate the performance of the NEC and its main services in FY 2002-2012, and make inferences about HSR in the NEC for the next 30 years, we use productivity analysis. We employ a non-parametric single factor productivity (SFP) Törnqvist trans-log index approach with several metrics. We set ridership, revenue, revenue passenger-miles (RPM), and available seat-miles (ASM) as outputs, and operating costs as input. In this way, we provided guidelines and a robust structure of analysis that can be useful for subsequent passenger rail productivity studies.

We find that the NEC experienced highly volatile, but considerable productivity growth in FY 2002-2012 (in the range of  $\sim$ 1-3% per year). Amtrak increased its ability to fill up and economically exploit the available capacity, but did not perform equally well on the supply side. Service changes, technical problems with train sets, targeted capital investments, and economic recession and recovery were the main drivers of productivity change. The Acela Express and Northeast Regional were very sensitive to external events, had large economies of scale, and implemented slow adjustment of capacity via rolling stock and infrastructure improvements, which varied depending on the service.

The characteristics of the NEC reveal a potential for a successful introduction of HSR, but although Amtrak's Vision for HSR in the NEC is realistic (in terms of productivity), it is risky and perhaps the time scale is not ambitious enough. We recommend revising the current projections, incorporate additional planning approaches, accelerate key stages of the Vision and include the FAA in the planning process.

Thesis Supervisor: Joseph M. Sussman

Title: JR East Professor of Civil and Environmental Engineering and Engineering Systems

## Acknowledgments

I would like to thank as briefly as I can those who made this thesis possible and also those who made my stay at MIT for the past two years a life-changing experience. I hope I didn't miss anyone, and if I did, I hope you forgive me. I'm sure I will thank you personally when the opportunity comes.

## Thank you, above all, Joe Sussman!

I like happy stories. On August 31, 2011, the day before Orientation Day, I got my first email from Professor Sussman with the subject "Possible position" and the message "There is a possibility for research support in my group. When can you come to see me to discuss this?" Suffice to say that we scheduled a meeting on very short notice, and I came running down the hall of Building 1 just a minute before the scheduled meeting time. His assistant pointed at him behind me, and the first thing he told me was "I saw somebody running down the hall just now and I thought 'Gee, that must be him!'... I admire your speed." After writing a statement from our meeting notes on that evening, Professor Sussman wrote to me next morning: "Nice paper with some good ideas. I invite you to join my HSR/ Regions group as a research assistant and hope you will accept". These words will be engraved in my mind forever.

Professor Sussman, you not only gave me the chance of a lifetime with my RA and TA appointments –for which I am immensely and eternally grateful—but, most importantly, your generosity, kindness, humility, intelligence, guidance, open-minded vision, and, yes, patience made this a life-changing experience for me in many dimensions.

I learned so much from Joe as an academic as well as from Joe as a person. He showed me many times the importance of values, which I never expected to learn when I daydreamt of coming to MIT. I am profoundly happy and honored to consider myself his friend and to have him as a mentor. Joe, you are a role model for me and one of my personal heroes. *Gracias*.

In addition, thank you, Becky Fearing, for your guidance in the productivity project; the sponsors of our research, the Speedwell Foundation and Shelter Hill Foundation; Amtrak officials Petra Todorovich Messick and Stephen Gardner for providing data for this research; and MIT freshman Zhengli Wang for his research support.

Thank you, members of our research group, especially our "darling", Naomi Stein; my "twin", Joel Carlson; and our tireless Maite Peña-Alcaraz, with whom I had the honor of sharing most of the past 21 months. Thank you as well, Ryan Westrom (another mentor), Ryusuke Sakamoto, Regina Clewlow, Soshi Kawakami, Iori Mori, Guineng Chen, Heather Jones, Luis Caetano, Taede Tillema, and José Linares.

Special thanks to my favorite lecturers, George Kocur, Richard de Neufville, Fred Salvucci, and again Joe Sussman, for inspiring talks that made my eyes shine, my brain work, and my creativity exploit.

Thank you, Carl Martland, Rebecca Heywood, and my 16 brilliant students of 1.011, spring 2012.

Thank you, 1-151, a communicative, entertaining, and multicultural office on MIT campus: Carlos Herrera, Serdar Colak, Jameson Toole, Kanchana Nanduri, Laura Viña, Carter Wang, and other guests I have mentioned before or accidentally forgot to mention now. (Figure 0.1 shows what I mean).



## Figure 0.1 – The Community of 1-151 in Academic Year 2012-2013

Thank you, CEE staff, for the wonderful work you do: Kris Kipp, Nancy Cook, Christine Blackett, Jeanette Marchocki, Mira Parsons, Denise Brehm, Patricia Glidden, Kiley Clapper, Ginny Siggia, and many more. The department could not be run without you.

Thank you, members of the Colombian Association of MIT, for allowing me to be your President. To some extent you are a micro cosmos of Colombia.

Thank you, Carolina Osorio and Édgar Blanco, superb Colombian ambassadors to MIT, and Ralph Gakenheimer, honorary *colombianista*.

Thank you, TSG, T-club, other classmates, and friends, in particular, Diego Vargas, old highschool classmate who became my roommate, best friend, and confident in Cambridge. You are a role model.

Thank you, MIT.

Last, but certainly not least, thank you to my dear loving family and close friends. To my parents, César and Clemencia, for always allowing me to be what I wanted to be; and to my siblings, Francisco, Mónica and Santiago, for always believing in me with open criticism. You are my cornerstone.

This work is in memory of Alejandro Llano and Andrés Corredor, two beloved high-school friends who passed away in Bogotá, Colombia, during my time here at MIT.

## **Table of Contents**

Abst	tract		.3
Ack	nowled	gments	.5
List	of Figu	Ires	11
List	of Tab	les, Equations, and Boxes	13
List	of Acr	onyms and Abbreviations	15
Intr	oductio	)n	17
Cha	pter 1.	Productivity Review	19
1.1.	Intro	oduction	19
1.2.	Basi	c Concept	19
1.3.	Proc	luctivity Metrics	20
1.	3.1.	Single Factor Productivity (SFP)	20
1.	3.2.	Multi Factor Productivity (MFP) and Total Factor Productivity (TFP)	21
1.	3.3.	Partial Productivity	22
1.4.	Met	hods for MFP/TFP	22
1.	4.1.	Non-parametric Approaches	23
1.	4.2.	Parametric Approaches	25
1.5.	Data	a Requirements	25
1.6.	Proc	luctivity in Passenger Rail Transportation	26
1.	6.1.	Review of Studies of Productivity in Passenger Rail Transportation	27
1.	6.2.	Outputs	28
1.	6.3.	Inputs	28
1.	6.4.	Partial Productivity in Rail Transportation	28
1.	6.5.	Factors that Influence Productivity in Passenger Rail Transportation	29
1.	6.6.	Limitations of Past Studies on Rail Transportation	29
1.	6.7.	Implications for the Study of HSR	30

1.7. Chapter Conclusion	
1.8. Chapter References	
Chapter 2. The Amtrak NEC Review	
2.1. Introduction	
2.2. The Northeast Megaregion	
2.3. Amtrak	35
2.3.1. Outputs: Ridership, Revenue, Profit	
2.3.1.1. Ridership	
2.3.1.2. Revenue	
2.3.1.3. Profit	
2.4. The Amtrak Northeast Corridor (NEC)	
2.4.1. NEC Infrastructure and Ownership	
2.4.2. NEC Operations and Services	
2.4.3. NEC Performance	44
2.5. High-Speed Rail Experience in the NEC	
2.5.1. A Note on the Definition of HSR	
2.5.2. Prospects for HSR in the NEC	
2.5.2.1. The NEC Master Plan	
2.5.2.2. Amtrak's Vision for HSR in the Northeast Corridor	
2.5.2.3. NEC FUTURE	
2.5.2.4. Alternative Approach to HSR in the US	
2.6. Chapter Conclusion	
2.7. Chapter References	
Chapter 3. Past Productivity in the NEC	
3.1. Introduction	
3.2. Data, Scope, and Method of Analysis	
3.2.1. Sources of Data	

3.2.2.	Output and Input Data	;
3.2.3.	Route Definitions	)
3.2.4.	Method of Analysis	
3.3. Past	Productivity in the NEC	ł
3.3.1.	Context of the Past Decade in the NEC 2002-2012	ł
3.3.2.	SFP Analysis	5
3.3.2.1	. Usage and Capacity	5
3.3.2.2	Route Comparisons	)
3.3.3.	Sensitivity Analysis	)
3.4. Cha	pter Conclusion70	)
3.5. Cha	pter References	3
Chapter 4.	Future Productivity in the NEC75	5
4.1. Intro	oduction75	5
4.2. Case	es of Analyses7	5
4.3. Firs	t Case: EXTRAPOLATION 2012-203070	5
4.4. Sec	ond Case: NECMP 2010-203079	)
4.5. Thin	d Case: NEC VISION 2013-2040	1
4.5.1.	Data for the NEC VISION 2013-2040	l
4.5.1.1	. Output and Input Data	1
4.5.1.2	2. Scope and Limitations	2
4.5.1.3	3. Characterization of the NEC VISION	3
4.5.2.	SFP Analysis of the NEC VISION	5
4.5.2.1	Projected SFP	5
4.5.2.2	2. Drivers of Future Productivity	7
4.5.3.	Comments on Amtrak's Projections	8
4.5.3.1	L. Competition	8
4.5.3.2	2. Underestimation of Projections	9

	4.5.3.3.	HSR International Comparisons	
	4.5.3.4.	Risks and Opportunities	91
4	.5.4. Sen	sitivity Analyses of the NEC VISION	92
	4.5.4.1.	Sensitivity to Assumptions Regarding Data Generation	92
	4.5.4.2.	Sensitivity to Uncertainty of Forecasts	96
4.6.	Chapter	Conclusion	
4.7.	Chapter	References	
Cha	pter 5. Sum	mary and Conclusion	
5.1.	Summar	y	
5.2.	Findings		
5.3.	Recomm	endations for the Prospects of HSR in the NEC	
5.4.	Contribu	tions	
5.5.	Future R	esearch	
5.6.	Chapter ]	References	
Арр	endix A: N	EC Data FY 2002-2012	
Арр	endix B: A	dditional NEC SFP Figures and Tables FY 2002-2012	
Арр	endix C: Fu	uture Data NEC VISION 2013-2040	
Арр	endix D: Ba	aseline Figures NEC VISION	

# **List of Figures**

Figure 1.1 - Categories of Productivity Metrics	21
Figure 2.1- Ridership FY 2000- 2012 (Adapted from Amtrak 2011a, 2011b, 2009-2012)	.37
Figure 2.2- Ticket Revenue FY 2000- 2012 (2012 USD) (Adapted from Amtrak 2011a, 2011b, 2009-	
2012)	38
Figure 2.3- NEC Ownership and Operations (NEC MPWG 2010)	.42
Figure 2.4- Projected Ridership NECMP and Vision 2010 (Amtrak 2010)	.49
Figure 2.5- NEC Capital Investment Program (Amtrak 2012)	. 50
Figure 2.6- Initial Alternatives Networks for NEC Spine and Connecting Corridors (NEC FUTURE	
2013b)	. 52
Figure 3.1- NEC Ridership Breakdown FY 2002-2012 (Adapted from Amtrak 2003-2012)	. 64
Figure 3.2- NEC Ticket Revenue Breakdown FY 2002-2012 (Adapted from Amtrak 2003-2012)	. 65
Figure 3.3- NEC, Cumulative SFP Growth FY 2002-2012	, 68
Figure 3.4- a) Express and b) Cumulative SFP Growth FY 2002-2012	. 69
Figure 4.1- EXTRAPOLATION, Year-to-Year SFP Growth FY 2005-2012 and 2013-2030	.77
Figure 4.2- EXTRAPOLATION, Cumulative SFP Growth FY 2005-2012 and 2013-2030	. 78
Figure 4.3- Characterization of the NEC VISION 2013-2040	. 84
Figure 4.4- NEC VISION, Year-to-Year SFP Growth FY 2002-2012 and 2013-2040	. 85
Figure 4.5- NEC VISION, Cumulative SFP Growth FY 2002-2012 and 2013-2040	. 86
Figure 4.6- a) Alternative Characterization of the NEC VISION 2013-2040 b) Base Case Characterization	ion
	. 94
Figure 4.7- a) Alternative NEC VISION, Year-to-Year SFP Growth FY 2002-2012 and 2013-2040 b)	
Base Case	. 95
Figure 4.8- Alternative NEC VISION, Cumulative SFP Growth FY 2002-2012 and 2013-2040	. 96

# List of Tables, Equations, and Boxes

Table 2.1- Amtrak and NEC Timeline
Table 2.2- FY 2002- 2012 Financial Performance, (\$ millions, nominal) (Adapted from Amtrak 2003-
2012)
Table 2.3- NEC-Spine Trains (Adapted from NEC MPWG 2010, Amtrak NEC Schedule Jan 2013) 43
Table 2.4- Performance of Acela Express and Northeast Regional (NR) FY 2003-2012 (Adapted from
Amtrak 2003-2013)
Table 3.1- Outputs and Inputs
Table 3.2- NEC Route Definition    59
Table 3.3- Timeline of Routes in the NEC Spine    61
Table 3.4- NEC, Express, and Regional Year-To-Year SFP Growth, FY 2002-2012
Table 4.1- International Comparisons of HSR Lines (Adapted from Sakamoto 2012, Thompson and
Tanaka 2011 Cheng 2010, and Vickerman 1997)90
Table 4.2- Assumptions for Sensitivity Test
Table 4.3- Sensitivity Analysis of Ridership and Revenue Forecasts for the NEC VISION
Table 5.1- Summary of NEC SFP Growth in FY 2002-2012 107

Equation 1.1- MFP, Growth Accounting Method	24
Equation 1.2- TFP, Törnqvist Translog Index	24
Equation 3.1- Year-To-Year SFP Formulation	62

Box 1.1- Productivity: Basic Concept	19
Box 1.2- SFP Definition	20
Box 1.3- MFP and TFP Definition	21
Box 1.4- Disadvantages of Partial Productivity Metrics	22
Box 1.5- Common Parametric Approaches	25

•

·

# List of Acronyms and Abbreviations

In alphabetical order:

4R	Railroad Revitalization and Regulatory Reform Act		
AADA	Amtrak Authorization and Development Act		
ALF	Average Load Factor		
ARRA	American Recovery and Reinvestment Act		
ASM	Available Seat-Miles		
ATM	Available Train-Miles		
CLIOS	Complex, Large-Scale, Inter-Connected, Open,		
	Sociotechnical (system or process)		
CFS	Commercial Feasibility Study		
СРІ	Consumer Price Index		
EIS	Environmental Impact Statement		
FAA	U.S. Federal Aviation Administration		
FRA	U.S. Federal Railroad Administration		
GAO	U.S. Government Accountability Office, previously		
	known as U.S. General Accounting Office		
GDP	Gross Domestic Product		
HSGT	High-Speed Ground Transportation		
HSR	High-Speed Rail		
ISTEA	Intermodal Surface Transportation Efficiency Act		
LD	Long-Distance (Trains)		
LOS	Level of Service		
MBTA	Massachusetts Bay Transportation Authority		
MFP	Multi Factor Productivity		
NEC	Northeast Corridor		
NECIP	NEC Improvement Program		
NECMP	NEC Master Plan		
NEC-UP	NEC Upgrade Program		
NEC NextGen HSR	NEC Next Generation High-Speed Rail		
NR	Northeast Regional (Service)		
O-D	Origin-Destination		
OLS	Ordinary Least Squares		
OPEB	Other Post-Employment Benefits		
PRIIA	Passenger Rail Investment and Improvements Act		
RPM	Revenue Passenger-Miles		
RPSA	Rail Passenger Service Act		
RT	Route		

RTM	Revenue Train-Miles	
SD	Short-Distance (Trains)	
SDP	Service Development Plan	
SFP	Single Factor Productivity	
TFP	Total Factor Productivity	

#### Introduction

The Northeast Corridor (NEC) of the United States is the most densely settled region and the economic engine of the country. It has been plagued for decades with congestion on its intercity transportation system, and the expected population growth will most likely make worse this situation. Within this context, enhanced high-speed rail (HSR) service seems like a promising solution for improving mobility in the future, since it is suitable for the physical and economic characteristic of the NEC. Thus, the Obama administration's effort to prioritize HSR nationally was recently echoed by new plans and studies that look for ways to implement HSR in the NEC. But, multiple stakeholders and uses, aging infrastructure, the need for substantial capital expenditures, and the lack of trust in Amtrak's ability to manage the corridor pose complex upgrading challenges.

In informing if and how HSR could be implemented in the NEC, it is key to review the recent performance of the corridor and the implications for the future. This thesis uses productivity, a concept widely used in economic studies but not so much in passenger rail transportation, to assess the past performance of the NEC and make inferences on future HSR developments. The goal is to highlight characteristics of the corridor, identify drivers of productivity growth, and make recommendations for the ongoing planning processes.

This thesis is organized as follows:

- **Chapter 1** discusses the concept, the metrics, and the methods of productivity measurement, followed by a review of previous productivity studies in rail transportation, and a discussion of the implications for the research on productivity of intercity passenger rail transportation.
- Chapter 2 reviews the history and performance of Amtrak, the passenger rail transportation system of the Northeast Corridor (NEC) of the U.S., and its high-speed rail (HSR) prospects for the next decades.
- Chapter 3 lays out a structure to study productivity of passenger rail in the NEC, followed by an analysis of the productivity of the NEC-spine trains from FY 2002 to 2012

- Chapter 4 uses the structure of analysis and findings of Chapter 3 to make inferences on the productivity of future HSR developments in the NEC as described in Chapter 2.
- **Chapter 5** summarizes key research findings and contributions, reflects on the recommended ways to move forward for HSR implementation in the NEC, and suggests potential areas of future research.

#### 1. Productivity Review

#### **1.1. Introduction**

This chapter discusses the concept, metrics, and methods of productivity measurement drawing on the extensive subject literature. Then it reviews previous productivity studies in rail transportation. Finally it discusses the implications for the research on productivity of intercity passenger rail transportation.

#### 1.2. Basic Concept

Productivity is a way of evaluating the performance of a country, industry, firm, system or process. At the most fundamental level, it is simply the relationship between outputs and inputs (Coelli et al 2005, Solow 1957).

Box 1.1- Productivity: Basic Concept

Productivity =	Outputs		
	Inputs		

Because productivity is a derived metric instead of a direct measured quantity, there are three basic ways of improving productivity:

- By producing the same outputs with fewer inputs
- By producing *more* outputs with the *same* inputs
- A combination of the two approaches

Increments in productivity are caused by *drivers* of productivity growth, which may be multiple and seldom self-evident. On one hand, there might be 'true' *shifts* of the production function caused by technological change (new technology), organizational change (changes in the process or managerial skills), or externalities (economic conditions, industry conditions). But on the other hand there might be effects due to non-technological progress like adjustment costs, economies of scale, cyclical effects, or pure changes in efficiency and measurement errors (OECD 2001, Coelli et al 2005, Oum et al 1992, Solow 1957). Productivity is used to compare performance of processes, systems, firms, industries, regions or countries with respect to each other and over time. Applications include, for example, the comparison of the productivity of two railroads in one year, or the assessment of the productivity of the US railroad industry over time.

Productivity improvements are of importance to the economy. Economic growth, interpreted as the output of the economy, can be increased by either increasing input quantities or by improving productivity. Given that input quantities have well-known physical limits but innovation does not, long-term economic growth is achieved by productivity improvements rather than by surges in input quantities. Thus, productivity may be used to trace technological change or to assess the standard of living (OECD 2001, Solow 1957).

## **1.3. Productivity Metrics**

Depending on the number of inputs and outputs, productivity metrics can be categorized as Single Factor Productivity (SFP), *Partial* Productivity, Multi Factor Productivity (MFP) and Total Factor Productivity (TFP). As will be shown later in Section 1.4 (Methods for MFP/TFP), the conceptual differences between these metrics are clear, but their empirical application is heavily dependent on the method of analysis.

### **1.3.1.** Single Factor Productivity (SFP)

The concept of single Factor Productivity (SFP) is intuitive for a single-input single-output process:

#### **Box 1.2- SFP Definition**

Single Factor Productivity (SFP): A one-to-one relationship defined as the ratio of the single output to the single input of a process.

The treatment of this metric is mostly unrestricted. It ranges from plots and tables of SFP, adjusted for inflation, that analyze the evolution of a process over time, to comparisons of different firms with the same kinds of output and input at one point in time.

The normalization of SFP with respect to the productivity on a base year, or the calculation of the changes in productivity from year to year, allows the comparison of productivity gains of single-input single-output firms producing a different output.

The general methods to be described in section 1.4: Methods for MFP/TFP can be simplified and extended to SFP in the case of single-output single-input processes.

## **1.3.2.** Multi Factor Productivity (MFP) and Total Factor Productivity (TFP)

In multi-output multi-input processes, two aggregate measures of productivity are preferred over SFP:

**Box 1.3- MFP and TFP Definition** 

- Multi-Factor Productivity (MFP): A relationship of a single output to a function that relates multiple inputs. A one-to-many relationship can involve <u>all</u> factors of production.
- Total Factor Productivity (TFP): A relationship of a function that relates multiple outputs to another function that relates multiple inputs. A many-to-many relationship that involves <u>all</u> factors of production.

It is a common mistake to use the terms MFP and TFP interchangeably. One could argue that MFP is a kind of TFP, but not vice versa. In a similar fashion, SFP could be a type of MFP, but not vice versa. This distinction is illustrated on Figure 1.1.





### **1.3.3.** Partial Productivity

As implied above, a multi-output multi-input process *could* use SFP metrics. In this case, such measures are known as "*partial*" productivity metrics, because they take into account only one factor of production at a time (OECD 2001, Oum et al. 1992). This is why the terms *SFP* and *Partial Productivity* are commonly used interchangeably (and confusingly) in the literature. The author strongly recommends making the distinction between SFP (for a single-output single-input process) and partial productivity (for a combination of an output and an input of a multi-output multi-input process). That distinction is manifest in the rest of this document.

Although partial measures give an idea of productivity by relating a given output to a given input, they are inappropriate to determine the productivity of a multi-output multi-input process for the following reasons:

**Box 1.4- Disadvantages of Partial Productivity Metrics** 

- They ignore deviations that are not explainable by the selected input.
- They ignore the interdependency of multiple inputs and outputs. For example, an increase in one input may be cancelled out by a decrease in other input.
- They can explain the correlation between a single input and a single output, but that does not imply nor demonstrate causality.

## 1.4. Methods for MFP/TFP

As mentioned earlier, MFP/TFP metrics need a method that relates multiple inputs and/or multiple outputs. Different methods can give MFP/TFP a different meaning, and decompose the productivity changes into one or more sources of growth.

Two main categories of methods are available: parametric and non-parametric methods.

*Non-parametric* methods combine the inputs (or outputs) into a single index before computing the productivity, or use a transformation for computing productivity gains without aggregating the inputs (or outputs) into a single index. These methods can be computed directly from data, without the need for any kind of statistical regression. They are more sensitive to year-to-year variations than parametric methods. They return *gross* measures of productivity; residuals that do not distinguish whether the changes are due to shifts of the production curve or to movements

along the existing production curve. Furthermore, they cannot determine the specific sources or drivers of productivity growth. (Oum et al. 1992, Coelli et al. 2005).

*Parametric* methods estimate a production or cost function through regression analyses (least-squares econometric production models, stochastic frontiers). They are less sensitive to year-to-year variations than non-parametric methods. These methods can distinguish between true "technical" shifts in productivity and economies of scale or other phenomena related to the production process (i.e. movements along the production curve) (Oum et al 1992, Coelli et al. 2005).

Careful consideration must be given to the selection of the method. Methodological differences can cause substantially different results for MFP/TFP metrics<sup>1</sup> (Oum et al 1992). Analyses performed with different methods, outputs, or inputs may not be comparable, even if they study the same entity.

Before continuing, it is important to note that sometimes productivity is analyzed by manipulating incremental gains of inputs (or outputs) rather than their absolute value. An incremental gain is defined as the relative growth of an output (or input) during a given time period. It is a dimensionless unit.

#### 1.4.1. Non-parametric Approaches

The *growth-accounting* approach, inspired by Solow (1957), is the most relevant non-parametric approach. It computes MFP/TFP productivity growth as the sum of incremental gains in output (or the sum of a linear combination of incremental gains of outputs) less a linear combination of incremental gains in inputs. The residual, i.e., MFP/TFP growth, represents the rate of change in output that cannot be explained by the rate of change in inputs. This is the combined effect of technological and non-technological progress, labeled as a *gross* productivity measure that cannot distinguish between those two categories of drivers of productivity change (Oum et al. 1992). For this reason, the index approach should be complemented by a review of historical events in order to conjecture about the causes of productivity change (OECD 2001).

A linear combination of incremental gains requires weights for the relative importance of input (or output) variables. The input weights are calculated as the share of each input on total input,

<sup>&</sup>lt;sup>1</sup> Much confusion would be spared if researchers stop reporting SFP, MFP or TFP alone without specification, and rather report the metric put together with the method of application

and the output weights are calculated as the share of each output on total output, and both can be either fixed (constant weights) or variable (moving weights).

The various ways of defining incremental gains and determining the weighting coefficients required by the growth accounting method define the different available methods within this approach:

- In the *basic growth accounting method*, an incremental gain is simply expressed as the percentage growth of input in a time period. Input weights are calculated as the share of each input on operational expenses at a given year. Output weights depend on the share of operational revenues. For the case of MFP, this is written as:

Equation 1.1- MFP, Growth Accounting Method

$$\frac{\Delta T}{T} = \frac{\Delta Q}{Q} - \left(\alpha_1 \frac{\Delta input_1}{input_1} + \alpha_2 \frac{\Delta input_2}{input_2} + \alpha_3 \frac{\Delta input_3}{input_3}\right)$$

$$Where: \frac{\Delta T}{T} = growth of MFP,$$

$$\frac{\Delta Q}{Q} = growth of output,$$

$$\frac{\Delta input_i}{input_i} = growth of input i$$

$$\alpha_i = Share of cost of input i in total cost of inputs$$

The *Törnqvist or translog index formula* is similar to the previous method, but it uses the natural logarithms of inputs and outputs to calculate the incremental gains. It uses average shares over the period of comparison as input/output weights. In this TFP example, taken from Cowie (2010), M = outputs, N = inputs, R<sub>i</sub> (or S<sub>i</sub>) = average revenue (cost) share of output (input) *i* between years k and l.

Equation 1.2- TFP, Törnqvist Translog Index

$$\ln\left(\frac{TFP_k}{TFP_l}\right) = \sum_{i=l}^M \bar{R}_i \ln\left(\frac{y_{ik}}{y_{il}}\right) - \sum_{j=l}^N \bar{S}_j \ln\left(\frac{x_{jk}}{x_{jl}}\right)$$

- Other index number methods include variations of these two methods, but with similar concepts.

As implied by the above equations, the growth accounting method can be applied for different periods of time, for example, on a year-to-year basis (with respect to the prior year) or on a cumulative basis (with respect to the initial year).

## 1.4.2. Parametric Approaches

Parametric approaches use statistical methods to estimate cost or production functions from statistical regressions on available data. They require assumptions on model specification, functional form, and estimation method. The following are two common examples of parametric approaches:

#### **Box 1.5- Common Parametric Approaches**

- Ordinary least squares (OLS) estimation is a popular regression technique to estimate a cost or production function. It fits an average function to a set of data points.
- *Stochastic frontier* functions use the fact that some technological frontiers might be above the average line that is estimated by an average function, and estimate a production/cost function that is more efficient than what is implied by the average of the data set.

Unlike non-parametric approaches, the parametric approaches can distinguish between true shifts in the productivity function and effects related to scale or other non-technological progress. However, they are more data-intensive and computationally complex than the parametric methods.

#### 1.5. Data Requirements

Disparities in measured productivity in empirical studies are not explained only by pure methodological differences. Another difference lies in the required data. Thus, a most important distinction is the measurement of input and output variables in physical quantities or in monetary terms.

Given that inflation plays a major role in productivity over extended periods of time, it must be considered in the calculations. If the data are in monetary terms, it becomes especially imperative to deflate the quantities accordingly. This calculation is also critical to non-parametric approaches that do not estimate a function, but rather make calculations directly from the available data (Coelli et al. 2005).

All in all, while physical quantities are preferred over monetary quantities, the ultimate choice depends on the confidence and availability of price and quantity data (Oum et. al. 1992).

#### 1.6. Productivity in Passenger Rail Transportation

Economic studies of productivity outside the domain of transportation usually focus on partial productivity (labeled in most of those studies as SFP) and MFP metrics with monetary outputs and inputs. Economic studies at a firm or industry level usually use operational revenue as output and multiple inputs in the categories of labor, capital, and other intermediate inputs (e.g. energy, materials, or services). Parametric approaches are more common than non-parametric approaches.

Transportation productivity studies also use partial productivity (labeled in most of these as SFP), and MFP/TFP. MFP/TFP include additional outputs that account for the capacity produced and utilized, and additional inputs that are more specific to the particular transportation context. Both parametric and non-parametric approaches are used, and due to the several different methods available, a comparison of findings between studies is a difficult, if not unfeasible, task. The studies usually use partial productivity measures to specify particular factors of interest to operators and analysts, but not to economists.

The specific rail transportation productivity literature leans towards freight (MFP), or combined freight-passenger transportation (TFP). Few studies address the rail passenger transportation problem in isolation. Lamentably, there are few published studies of productivity for the U.S. passenger railroads.

Past productivity analyses in transportation can and have been used for many purposes: to evaluate the performance of a firm/industry over time, to compare firms within an industry, to compare firms/industries in different countries, or to compare different policy regimes.

#### 1.6.1. Review of Studies of Productivity in Passenger Rail Transportation

In the most relevant study of US railroads, Caves et al. (1980) compared the TFP, for passenger and freight rail transportation, computed with different parametric and non-parametric methods. When using the growth accounting approach, they highlighted the importance of using adequate moving input and output weights from operational data, and not taken from national income data that understated the use of capital and overstated the use of labor in railroads. They concluded that the U.S. railroads TFP productivity increased 1.5% per year on average for the period 1951-1974.

Caves et al. (1981) further compared the US and Canadian railroads with a parametric TFP in the period 1955-1974. They concluded that the less regulated Canadian railroads achieved higher productivity gains than the more regulated US railroads. This research gave birth to a myriad of studies that used MFP/TFP with a non-parametric approach to analyze (rail) transportation performance.

Tretheway et al. (1997) used partial productivity measures (labeled by them as SFP), a revenueweighted (non-parametric) index of TFP, and a parametric TFP to analyze the productivity of two Canadian railways, CN and CP, from 1956 to 1991. Their analysis includes a comparison of various factors like ownership, technological changes, deregulation, and is benchmarked with US railroads.

Cantos el al. (1999) used a non-parametric TFP Malmquist index to analyze the productivity of European railways from 1970 to 1995. The analysis distinguished between changes in efficiency and technical change. They concluded reforms that provided greater degrees of autonomy and financial independence in the sub-period 1985-1985 contributed greatly to increases in productivity.

Unlike previous studies, Cowie (2010) used a non-parametric MFP translog index approach to analyze the effect of privatization in the British passenger railway industry. He found that ownership structure and not ownership *per se* was relevant as a determinant of productivity gains. The nationalized British Rail experienced productivity gains comparable to those of railways in early stages of privatization, after the former adopted a more market-oriented structure. Labor reductions increased productivity for privatized railroads in the short-term, but infrastructure and rolling stock investment improved productivity for British Rail in the long run.

27

Most recently, Sakamoto (2012) used partial productivity measures (labeled by him as SFP) and the same approach as Cowie (2010) to determine the MFP productivity of the Tokaido Shinkansen line in Japan in the period 1964-2010. He concluded that MFP increased significantly after the privatization process of JR Central in 1987.

The existence of a study of Amtrak's productivity under any approach (SFP, partial, MFP or TFP) is unknown to the author to this date.

## 1.6.2. Outputs

In most transportation productivity analyses, the outputs are revenue and volume. The specific output metrics vary depending on the mode.

For rail transportation, available seat-miles (ASM) or available train-miles (ATM) are a proxy for transportation capacity, whereas revenue passenger-miles (RPM) or revenue train-miles (RTM) measure the ability to use the available capacity. Several authors use additional outputs, including average length of passenger trip (Caves et al. 1980), operating revenue, net income, gross ton-miles, locomotive miles, car-miles, train-hours, locomotive hours, or trailers loaded (Kriem 2011). These multiple outputs are interesting from an operational point of view, but impede comparisons among studies.

## 1.6.3. Inputs

In most transportation productivity analyses, the inputs are generally labor and capital. The specific input metrics also vary depending on the transportation mode.

In rail transportation, the inputs are generally labor, capital and fuel. Some studies include more detailed inputs such as infrastructure, equipment, cars, or stations (Kriem 2011, Martland 2011, Caves et al. 1981). Other studies discriminate inputs in a different way, for example, in personnel, non-personnel and capital expenditures (Sakamoto 2012). The data availability determines to some extent the breakdown of inputs.

## **1.6.4.** Partial Productivity in Rail Transportation

As mentioned earlier (see section 1.6.1 Review of Studies), several studies used partial productivity metrics to identify firm/industry trends, or to get a sense of operational details that may be of interest to analysts. Such partial measures enable multiple permutations of outputs and inputs. For example, Martland (2011) and Kriem (2011) used several partial productivity

metrics: labor, fuel, infrastructure, equipment, operations, capital or safety, with various combinations for each one.

A failing of productivity studies is that they often omit level of service (LOS). There are only tangential approaches to measuring LOS as an output of transportation. This is mostly done on partial productivity analyses that use performance indicators as productivity measures, (e.g. operational safety defined as injuries divided by number of employees).

As noted earlier (section 1.3.3 Partial Productivity), partial productivity is inappropriate for analyzing multi-output multi-input processes.

#### 1.6.5. Factors that Influence Productivity in Passenger Rail Transportation

There are many factors that can change productivity in passenger rail transportation. Some of them can be related to technology change (use of improved equipment, improved maintenance techniques, use of IT to monitor and control trains, use of online ticket sales), others are related to organizational change (improved manager practices, mergers/acquisitions, changing legislation), and others are due to external events (industry and market behavior, single events).

Previous studies have shown the effects of some of this factor on productivity (see section 1.6.1 Review of Studies)

#### 1.6.6. Limitations of Past Studies on Rail Transportation

The scope of analysis in past productivity studies on rail transportation was limited by the inherent tradeoff between parametric and non-parametric approaches. The former are harder to calculate and more data-intensive, but can distinguish between sources of productivity growth. The latter are easier to compute and less data-intensive, but cannot separate the causes of productivity gains (see section 1.4: Methods for MFP/TFP). Given that non-parametric approaches are more popular, the literature still relies on historical reviews that make inferences on the specific sources of productivity change.

Previous studies also failed to make conclusions on performance of railroads due to lack of reliable data. Sometimes researchers had problems obtaining disaggregate data from carriers, which they viewed as competitive information.

The great range of available methods and their incompatibility prevented researchers from building on previous studies. This resulted in a lack of continuity in the literature.

Finally, the selected inputs of previous studies in transportation did not account for the LOS, an important concept in transportation and one of the strongest arguments in favor of newer transportation technologies. In addition, the metrics generally measured the quantity but not the quality of inputs. However, the theory on productivity does allow the free selection of input and output variables, which may have the potential for evaluating the productivity from a level-of-service perspective.

#### 1.6.7. Implications for the Study of HSR

Higher productivity could translate into more utilization of HSR assets, lower fares to customers, higher employee compensation, potentially more profits for HSR owners, and perhaps even lower need for public funding.

Even though productivity is a poor proxy for profitability – given that financial performance depends on other factors, such as fares or competition— good productivity is in fact a precondition for profitability. Thus, a mode's productivity could give a boundary for profitability and perhaps even explain long-term profitability.

Calculations of productivity in the NEC could be done at the route (sub-firm) level (e.g. the Acela Express). However, the same data categories, metrics, and methods should be used to accurately compare distinct studies, regardless of whether the analysis is done for different routes, in different locations, or in different periods of time.

#### **1.7. Chapter Conclusion**

Productivity analyses are useful to study intercity passenger rail transportation because they can assess performance and provide insights into the sources of performance change, i.e., into the so-called drivers of productivity change. In intercity passenger transportation, productivity improvements may explain long-term improvements and translate into many benefits to users and producers of those services. Several studies have revealed that various factors related to technological change, organizational change, and external events affected productivity in intercity passenger rail transportation, mostly outside of the U.S. Thus, a successful productivity analysis of the Northeast Corridor may allow managers and decision-makers to understand the system's behavior, and to better prepare or respond to potential realizations of the future.

The basic definition of productivity and clarification of the intricate metrics and methods of productivity measurement presented in this chapter have provided an understanding of the concept of productivity and of the somewhat disorganized productivity literature, where no widely dominant approach is to be found, and only scarce, discontinuous, and incompatible studies of rail transportation are available. As a recommendation to prevent major future confusion, the data categories, the productivity metrics, and the method of analysis should be explicitly and jointly referenced in a productivity study.

The advantages, disadvantages, and tradeoffs of the wide range of available methods for productivity analysis make this a non-straightforward decision. Parametric methods can provide detailed information on the drivers of productivity change, but are data-intensive and computationally complex. Non-parametric methods may sacrifice the amount of information they return, but are less data-intensive and computationally friendlier than parametric methods. Complementary analysis, like reviewing historical events or using alternative metrics, may compensate for the disadvantages of a particular method. Ultimately, the selection of a method depends on the question of interest, the type of data, the data availability, the computational resources, and other context-specific constraints. Robustness, however, is a desired attribute of any method, given that distinct approaches may return great discrepancies in the estimation of productivity, even when applied to the same dataset.

The selection of productivity metrics is more direct than and usually precedes the selection of the method of analysis. SFP, partial productivity, MFP, and TFP metrics are used for a variety of

analysis, ranging from single-output single-input to multi-output multi-input processes. In singleoutput single-input processes, or in processes where multiple inputs can unmistakably be combined into a single input, SFP is the preferred choice. In multi-output multi-input processes, MFP and TFP are definitively preferred over the (inappropriate) partial measures of productivity.

Although the selection of outputs and inputs in transportation productivity analyses is mostly constrained by data availability and reliability, this does not necessarily mean that alternative outputs and inputs cannot be selected or derived. Given that operators usually report financial data, several transportation productivity studies used monetary terms instead of physical input quantities. Moreover, physical outputs that can measure capacity and usage (ASM and RPM) are commonly reported by firms. However, these data respond to incumbent managerial reporting schemes that rarely account for LOS. In addition, the metrics generally measure the quantity but not the quality of inputs. Thus, there is a need for developing alternative outputs and/or inputs in productivity analysis in order to measure the quality of the service provided and to account for the quality of the inputs.

The next chapter discusses the passenger rail transportation system of the Northeast Corridor and the high-speed rail prospects for the next few decades.

#### **1.8.** Chapter References

Cantos, P., Pastor, J. M., & Serrano, L. (1999). Productivity, Efficiency and Technical Change in the European Railways: A Non-Parametric Approach. Transportation, 26(4), 337-357.

Caves, D. W., Christensen, L. R., & Swanson, J. A. (1980). Productivity in US Railroads, 1951-1974. The Bell Journal of Economics, 166-181.

Caves, D. W., Christensen, L. R., & Swanson, J. A. (1981). Economic Performance in Regulated and Unregulated Environments: A Comparison of US and Canadian Railroads. The Quarterly Journal of Economics, 96(4), 559-581.

Coelli, T. J., Rao, D. S. P., O'Donnell, C. J., & Battese, G. E. (2005). An Introduction to Efficiency and Productivity Analysis. Springer.

Cowie, J. (2010). Subsidy and Productivity in the Privatised British Passenger Railway.

Kriem, Y., & Massachusetts Institute of Technology. Dept. of Civil and Environmental Engineering. (2011). *Productivity of the U.S. Freight Rail Industry: A Review of the Past and Prospects for the Future*. (M. Eng., Massachusetts Institute of Technology, Dept. of Civil and Environmental Engineering).

Martland, C. D. (2011). Productivity Improvements in the US Rail Freight Industry, 1980-2010. MIT paper October 2011

Measuring Productivity, OECD (2001). Manual: Measurement of Aggregate and Industry-Level Productivity Growth.

Oum, T. H., Tretheway, M. W., & Waters, W. (1992). Concepts, Methods and Purposes of Productivity Measurement in Transportation. Transportation Research Part A: Policy and Practice, 26(6), 493-505.

Sakamoto, R., & Massachusetts Institute of Technology. Dept. of Civil and Environmental Engineering. (2012). *High Speed Railway Productivity: How Does Organizational Restructuring Contribute to HSR Productivity Growth?* (S.M. in Transportation, Massachusetts Institute of Technology, Dept. of Civil and Environmental Engineering).

Solow, R. M. (1957). *Technical Change and the Aggregate Production Function*. The Review of Economics and Statistics, 39(3), 312-320.

Tretheway, M. W., Waters, W., & Fok, A. K. (1997). *The Total Factor Productivity of the Canadian Railways*, 1956-91. Journal of Transport Economics and Policy, 93-113.

#### 2. The Amtrak NEC Review

#### 2.1. Introduction

This chapter reviews the passenger rail transportation system of the Northeast Corridor (NEC) in the U.S. and its high-speed rail (HSR) prospects for the next decades, providing the context for an assessment of its productivity in later chapters.

#### 2.2. The Northeast Megaregion

The Northeast Corridor of the United States, by convention, stretches from Washington, D.C., to Boston, MA, lying in an essentially contiguous megaregion, which is the United States' largest. With over 55 million people and a \$2.6 trillion economy one-fifth of the U.S. GDP, it is the most densely settled region and the economic engine of the country. However, it has been plagued for decades with congestion on its intercity transportation system, especially at airports and on highways, a condition that might worsen due to expected population growth, travel frequency increases, constraints on investment, and likely increasingly frequent large weather events (hurricanes, snowstorms). This poses challenges in upgrading a multi-state, multi-use and multioperator corridor that is vital to the economy of the U.S. and even the world.

#### 2.3. Amtrak

Amtrak, a portmanteau of "American" and "Track", is the accepted name of the National Railroad Passenger Corporation; a publicly-owned company operated and managed as a forprofit, private corporation, and currently the only intercity rail passenger operator in the NEC. The Rail Passenger Service Act (RPSA) of 1970 gave birth to Amtrak, which began operations on May 1, 1971, after the consolidation of several private passenger railroads of the time. Amtrak currently operates a 22,000-mile passenger rail nationwide system.

Table 2.1 displays a timeline with major events regarding the evolution of Amtrak and the NEC.

YEAR	EVENT	
1830-1917	NEC is built	
1965	High Speed Ground Transportation (HSGT) Act	
1968	Establishment of Penn Central Transportation Co.	
1969	Introduction of Metroliner and Turbotrain services	
1970	Rail Passenger Service Act (RPSA)	
1971	Amtrak starts operations	
1976	Railroad Revitalization and Regulatory Reform Act (4R)	
1976-1982	NEC Improvement Program (NECIP)	
1991	Intermodal Surface Transportation Efficiency Act (ISTEA)	
1992 Amtrak Authorization and Development Act (AADA)		
1995 Northeast Regional starts operations		
1997	HSGT Commercial Feasibility Study (CFS) Report	
2000	Acela Express stars operations	
2001	Terrorist attacks of 9/11	
2008	PRIIA, economic recession	
2009	ARRA, "Vision for HSR in America"	
2010	NEC MP, Amtrak's "Vision for HSR in the NEC"	
2012 - Present	NEC FUTURE, NEC Capital Investment Program	
2015-2025	NEC-UP (proposed)	
2030-2040	NEC NextGen HSR (proposed)	

#### Table 2.1- Amtrak and NEC Timeline

#### 2.3.1. Outputs: Ridership, Revenue, Profit

Even though Amtrak's ridership was relatively flat for about twenty years, the last decade has brought an upsurge in riders. In 1972, after the first year of operations, Amtrak's carried 16.6 million passengers system-wide; that doubled by 2012, forty years later. In the first decade of operations, a period known as the *Rainbow Era*, system-wide ridership reached 21 million annual passengers, a figure that stagnated for nearly twenty years, until 2000. In the past ten years, however, Amtrak has broken its ridership records nine times, the only significant downturn coming during the economic recession in fiscal year (FY) 2009, October 2008-September 2009.

In the new millennium, Amtrak's ridership, revenue, and profitability has exhibited mixed and contrasting experiences in different routes and regions. Short and special routes became more profitable and utilized than longer routes, while the latter continued to be heavily subsidized. Two thirds of Amtrak's ridership in FY 2012 originated in the ten largest metropolitan areas
(Puentes et al. 2013). The Northeast Megaregion contributed nearly half of Amtrak's ridership and represented the most important passenger rail transportation sub-network in the nation.

### 2.3.1.1. Ridership

The breakdown of Amtrak's ridership for FY 2000-2012 is shown in Figure 2.1 and includes NEC-spine trains (to be defined and discussed in Section 2.4.2: NEC Operations and Services), state-supported and other short-distance corridor trains (SD) (~<400 mi), and long-distance trains (LD) (~>400 mi).



Figure 2.1- Ridership FY 2000- 2012 (Adapted from Amtrak 2011a, 2011b, 2009-2012)

Amtrak's system-wide ridership grew 55%, from 21 million riders in FY 2000 to an all-time high of 31.2 million in FY 2012. This percentage increase was higher than that of other major travel modes in the U.S. (Puentes et al. 2013), and greatly exceeds the 11% increase in U.S. population since the beginning of the millennium (U.S. Census Bureau). The greatest ridership growth occurred in SD trains, from 8.6 to 15.1 million annual riders (+76%). NEC-spine ridership notably grew from 8.4 to 11.4 million riders (+36%), while LD ridership slightly increased from 4.0 to 4.7 million (+18%).

There are a number of reasons that explain this growth, including but not limited to the availability of government funding for capital improvements; the introduction of the Acela Express in FY 2001; external factors and events like 9/11, climate change awareness, airport

congestion, and the surge in fuel prices, which shifted drivers from other transportation modes. In contrast, the economic recession of 2008-2009 reduced ridership growth, which had been increasingly ramping up in the three years before. The end-result of the recession was a 2-3-year setback in ridership.

### 2.3.1.2. Revenue

Figure 2.2 shows Amtrak's ticket revenue in 2012 dollars, corrected for inflation with the transportation Consumer Price Index (CPI) series CUUR0000SAT 2002-2007 and CUUR0000SS53022 2007-2012 (USBLS 2013).



Figure 2.2- Ticket Revenue FY 2000- 2012 (2012 USD) (Adapted from Amtrak 2011a, 2011b, 2009-2012)

Amtrak's system-wide real ticket revenue increased 38% in the past 12 years. Revenue growth was nonetheless unsteady, especially affected by the 2008 dip. Real ticket revenue decreased at 4% per year in FY 2002-2005, recovered at 8% per year in FY 2005-2008, dropped 8% in FY 2008, and grew anew at 6% yearly since then.

Again, NEC-spine and SD trains grew in importance, while LD trains diminished their share of Amtrak's ticket revenue. NEC-spine trains contributed 52%, SD trains 23%, and LD trains 25% of Amtrak's \$2 billion ticket revenue in FY 2012, whereas respective shares were 44%, 21%, and 35% of Amtrak's \$1.1 billion (nominal) ticket revenue in FY 2000. Overall, the new

millennium brought 63% more real revenue in the NEC-spine, 51% in SD, and a 1% in LD. The LD revenue remained essentially flat.

The NEC-spine showed large returns to scale. While the NEC-spine trains' incremental ridership was less than half of the SD trains' (3 v. 6.5 million riders), the associated incremental revenue was 2.5 times that of SD trains (\$565 v. \$230 million (nominal USD)).

### 2.3.1.3. Profit

Table 2.2 shows the financial performance of Amtrak in nominal dollars.

Table 2.2- FY 2002-	- 2012 Financial Performance	, (\$ millions, nominal)	(Adapted from Amtrak	2003-2012)

Year-End	Total	Total	Net Loss from	Net Loss	Adjustment	
	Revenues Expenses		Operations			
2002	\$2,212	\$3,224	(\$1,012)	(\$1,148)	(\$631)	
2003	\$2,057	\$3,178	(\$1,121)	(\$1,264)	(\$678)	
2004	\$1,631	\$2,917	(\$1,286)	(\$1,286)	(\$635)	
2005	\$1,855	\$2,962	(\$1,107)	(\$1,107)	(\$606)	
2006	\$2,502	\$2,450	\$52	(\$1,127)		
2007	\$2,151	\$2,581	(\$429)	(\$1,052)		
2008	\$2,454	\$3,389	(\$934)	(\$1,024)		
2009	\$2,353	\$3,507	(\$1,155)	(\$1,264)	(\$788)	
2010	\$2,513	\$3,747	(\$1,233)	(\$1,335)	(\$898)	
2011	\$2,714	\$3,966	(\$1,251)	(\$1,345)	(\$887)	
2012	\$2,876	\$4,063	(\$1,186)	(\$1,267)	(\$878)	

Amtrak has shown persistent unprofitability. The net losses were \$1.27 billion from \$2.88 billion total revenue in FY 2012 (44%). Certainly, the boost in ridership and revenue stabilized and even reduced net losses in recent years, both in absolute and percentage terms. This trend was also to be seen in the years before the 2008 economic recession. Nevertheless, subsidies are familiar to Amtrak, which continuously received governmental support for operations since its inception back in 1971. For this reason, Amtrak's operational capabilities have been a matter of harsh criticism and public debate throughout decades. Amtrak counters that other modes have been

more heavily subsidized; in forty years Amtrak received \$36 billion from federal funding, whereas aviation received \$421 billion and highways received at least a trillion (Amtrak 2011c).

Operational losses were, nonetheless, not ubiquitous. The NEC-spine trains were operationally profitable in FY 2012, with \$289 million surplus (excluding capital charge, depreciation and interest), as well as a few short-distance routes, with \$10 million surplus. This contrasted severely with the \$760 million combined loss of the remaining routes (excluding capital charge, depreciation and interest) (Amtrak Monthly Performance Report, September 2012). The corresponding figures in FY 2010 showed a \$61 million contribution for NEC-spine trains and \$795 million loss for the rest of the system, and a year before, in the midst of the most serious economic recession since the Great Depression of the 1930s, a \$25 million contribution and \$766 million loss, respectively.

A factor that accentuated such contrasts is that most infrastructure costs were included in the performance of the LD and SD trains—as Amtrak paid usage fees to the infrastructure owners—but not in the almost entirely Amtrak-owned NEC—where Amtrak did not pay internal usage fees (i.e. there is vertical integration). In the first case, most infrastructure owners are freight railways. In the past, railroads had mixed traffic of freight and passengers. The latter were transferred to Amtrak upon its establishment in 1971, but not the infrastructure. This condition has made cooperative relationships difficult between Amtrak and the freight railways, which now have no incentives to carry passenger traffic on their tracks.

Hence, the NEC revealed a different story than the rest of Amtrak. NEC-spine outputs greatly improved in the past three years: 24% in ticket revenue, 14% in ridership, and tenfold in operational surplus (excluding capital charge, depreciation and interest). Outside of the NEC, Amtrak showed fluctuating losses, despite noticeable increases in ridership and revenue. It is important to note, though, that financial performance of routes is reported before capital charges, depreciation and interest, which would lower the above-reported figures once taken into account. The allocation of those costs, however, is problematic and sensitive to the selected method of charging users of shared infrastructure and services.

#### 2.4. The Amtrak Northeast Corridor (NEC)

The Amtrak Northeast Corridor, hereon referred to as the NEC, is the railroad artery that spans the Northeast Megaregion. The NEC is a multi-state corridor that runs through twelve States and the District of Columbia. It is a multi-owner asset comprising 870 route miles and 2,340 track miles, a multi-operator network involving eight commuter operators with one intercity-travel operator (Amtrak), and a multi-use track alignment on which both freight and passenger trains run every day. The Federal Railroad Administration (FRA) oversees this orchestration.

All these reasons make the NEC an intricate system that carries over 750,000 commuters and daily intercity travelers, with 2,272 daily train movements (154 from Amtrak), and increasing congestion and infrastructure maintenance requirements.

### 2.4.1. NEC Infrastructure and Ownership

The NEC rail infrastructure includes multi-track rail lines, bridges, stations, and signaling systems between Washington, D.C., and Boston, MA, with branches to Springfield, MA, Albany, NY, Harrisburg, PA, and Richmond, VA. Originally built between 1830 and 1917, and upgraded by the Northeast Corridor Improvement Program (NECIP) from 1976 to 1982, the NEC faces today aging infrastructure and maintenance backlogs.

Figure 2.3 shows the NEC infrastructure ownership and operations. Although the Railroad Revitalization and Regulatory Reform Act (4R) of 1976 allowed Amtrak to acquire much of the NEC infrastructure from Conrail, it remains a shared asset with multiple owners. Amtrak owns and maintains 363 of the 457 route miles of what is termed the "NEC spine", the track alignment linking Washington's Union Station to Boston's South Station, roughly parallel to Interstate 95. This includes 17 tunnels, 1,186 bridges, and the entire track from Washington to New York. The Massachusetts Bay Transportation Authority (MBTA) owns the 38-mile segment in Massachusetts, and the States of New York and Connecticut own the segment linking New Rochelle, NY, and New Haven, CT, comprising 46 route miles (NEC MPWG 2010, Amtrak 2011a).





# 2.4.2. NEC Operations and Services

The NEC is the most heavily utilized railway corridor in the U.S. Every weekday, Amtrak operates 154 intercity trains, and eight commuter agencies run over 2,000 trains with more than 750,000 commuters on the shared infrastructure. Boston South Station (6<sup>th</sup>), New York Penn Station (1<sup>st</sup>), Philadelphia 30<sup>th</sup> Street Station (3<sup>rd</sup>), and Washington Union Station (2<sup>nd</sup>) rank among the top ten busiest rail stations in the U.S. (Amtrak National Fact Sheet 2011, NEC MPWG 2010, Amtrak 2011b)

In addition to passenger services, 70 daily freight trains from seven different companies run along the NEC spine at speeds of 30-50 mph (Amtrak 2011a). The difference in operating speeds and services on the shared tracks contributes to the reduced available capacity of the corridor. Moreover, infrastructure bottlenecks limit operational speeds in critical parts of the corridor, especially on the Boston-New York alignment and in the New York metropolitan area.

Amtrak offers multiple services along the NEC, two of which are of main importance:

The *Acela Express* runs from Boston to Washington via New York, Philadelphia, and Baltimore. It is the fastest rail service in the U.S., capable of achieving top speeds of 150 mph in short sections of the trip. Its average speed, though, is only on the order of 70-80 mph, which results in a scheduled travel time of approximately 6:30 h from Boston to Washington. The Acela Express, introduced in December 2000, currently offers various amenities such as first class (business class is the lowest option), on-board Wi-Fi access, and food services.

The *Northeast Regional* runs from Boston/Springfield to Washington and then to other cities in the State of Virginia (Richmond, Lynchburg, Newport News or Norfolk), via New York, Philadelphia, and Baltimore. While the top speed is 125 mph, the average speed remains at 60-65 mph. This results in a scheduled travel time of approximately 8 h from Boston to Washington. The Northeast Regional was introduced in 1995, and offers coach class and business class.

Table 2.3 shows certain trip characteristics of the Acela and Northeast Regional services.

Service	Route	Distance (miles)	Weekday Round Trips	Scheduled Travel Time (hr:min)
Acala	Boston – New York	232	10	From 3:25 to 3:35
Fynress	New York – Washington	225	15	2:44 to 2:50
Express	Boston – Washington	457	10	6:30 to 6:40
Northeast	Boston – New York	232	9	4:00 to 4:20
Regional	New York - Washington	225	14	3:12 to 3:39
	Boston – Washington	457	9	7:40 to 8:05

Table 2.3- NEC-Spine Trains (Adapted from NEC MPWG 2010, Amtrak NEC Schedule Jan 2013)

Service on the southern leg of the NEC (New York-Washington) is 50% more frequent and 25% faster than service in the northern leg (New York-Boston). Infrastructure constraints (old bridges, short radii of curvature, etc.), along the northern leg of the NEC in particular, limit the capacity of the rolling stock for achieving and maintaining high speeds. For this reason, the Acela Express is just 18% faster than the Northeast Regional, saving, for instance, just 28 minutes in the 2-hour-45-minute-long New York-Washington trip.

In addition to the Acela Express and the Northeast Regional, there are a number of Amtrak services that operate partly on the NEC spine. The *Keystone* travels from New York to Philadelphia, and then branches out to Harrisburg. The *Pennsylvanian* travels the route New York—Harrisburg—Pittsburg. Amtrak also operates some NEC special trains for exceptional occasions. Other services originate in cities on the NEC, but do not travel along the NEC spine (e.g. the *Empire* service which covers the route New York—Albany—Toronto).

The Acela Express, Northeast Regional and NEC Special Trains, hereon referred to as the NECspine trains, will be the focus of the subsequent review.

### 2.4.3. NEC Performance

In FY 2011, Amtrak's services captured 77% of the air/rail market from Washington to New York, and 54% of the New York – Boston market (Amtrak 2012). The NEC-spine trains carried 11.4 million passengers in FY 2012, a 36% growth since FY 2003, representing 36% of Amtrak's overall riders. NEC-spine trains generated \$1.05 billion (52%) of Amtrak's \$2 billion ticket revenue in FY 2012, a cumulative farebox increment of 45% in a decade. In contrast, the level of service has only marginally improved. Amtrak and the FRA have made incremental HSR improvements to the NEC, like electrification and procurement of HSR trains, but the 3-hour travel-time goal between Boston and New York required by the Amtrak Authorization and Development Act of 1992 is yet to be achieved (USGAO 2004). Surprisingly, Amtrak has achieved such impressive market share in the NEC without having a true HSR service by many definitions (see Section 2.5.1: A Note on the Definition of HSR)

Table 2.4 shows some performance metrics for the Acela Express and Northeast Regional in 2003-2012, a full decade. Despite a drawback in FY 2009, there were 1.0 (+44%) and 2.1 million (+37%) additional riders on the Acela and Northeast Regional, which increased ticket revenue by 47% and 36%, respectively. In FY 2011, for the first time, ticket revenue from the Acela Express was greater than the Northeast Regional's, despite having less than half the ridership.

The congestion in the corridor contrasts with the still low, relative to air travel, though increasing average load factor (ALF) of the trains: 63% on the Acela, up from 55% in 2009 and back to 2008 levels, and 48% on the Northeast Regional, up from 44% in 2009. With capacity constraints on the corridor, partly evidenced by the modest growth of ASM, most of the new riders are accommodated on the available capacity.

	Rider	ship	Ticket F	Revenue	RF	PM	AS	SM			
	(milli	ons)	(2012 \$ millions)		(mill	ions)	(mill	ions)	ALF		
Year	Acela	NR	Acela	NR	Acela	NR	Acela	NR	Acela	NR	
2003	2.4	5.9	\$346	\$393							
2004	2.6	6.4	\$351	\$407							
2005	1.8	7.1	\$244	\$439		1,041		2,410		43%	
2006	2.7	6.8	\$376	\$454	473	961	923	2,307	51%	42%	
2007	3.2	6.8	\$453	\$476	577	974	980	2,272	59%	43%	
2008	3.4	7.5	\$497	\$511	631	1,100	1,006	2,200	63%	50%	
2009	3.0	6.9	\$436	\$460	570	1,047	1,033	2,393	55%	44%	
2010	3.2	7.1	\$443	\$461	611	1,105	1,015	2,394	60%	46%	
2011	3.4	7.5	\$494	\$494	650	1,167	1,028	2,545	63%	46%	
2012	3.4	8.0	\$508	\$536	647	1,234	1,034	2,550	63%	48%	

 Table 2.4- Performance of Acela Express and Northeast Regional (NR) FY 2003-2012 (Adapted from Amtrak 2003-2013)

Contrary to the overall financial performance of Amtrak, the NEC reported a \$289 million operational contribution (excluding depreciation, capital charge and interest) in FY 2012: \$209 million (72%) from the Acela Express, and \$72 million (25%) from the Northeast Regional. While the Acela Express has been proven increasingly profitable since its inception, the Northeast Regional recovered from two years of losses after the economic recession, with a \$28-million operational surplus (excluding depreciation, capital charge and interest) in FY 2011, a comeback from a \$43-million loss the year immediately before (nominal USD).

Increased transportation demand, airport congestion, targeted investments from Amtrak, and availability of funding for capital investments have driven the recent boost in performance in the NEC. However, an infrastructure maintenance backlog of \$8 billion is yet to be addressed. In 2010 Amtrak estimated the required investment to bring the Amtrak-owned NEC infrastructure to a state of good repair and to cope with the expected growth between 2010-2030, at \$52 billion, including the replacement of several bridges over a century old (NEC MPWG 2010).

### **2.5. High-Speed Rail Experience in the NEC**

Although the conversation about HSR in the U.S. is hardly new, it was recently reinvigorated by the Obama administration via launching of the "*Vision for HSR in America*", a HSR strategic plan, as part of the American Recovery and Reinvestment Act (ARRA) of 2009 (see Table 2.1). This was the first U.S. presidential administration to make HSR a nationwide initiative. ARRA authorized \$8 billion to develop a national HSR system, and the NEC was selected as a strategic corridor for targeted HSR funding (FRA 2009).

Before ARRA, the Passenger Rail Investment and Improvements Act of 2008 (PRIIA) established the framework for development of HSR corridors, allocating \$1.5 billion for capital improvements in the NEC for FY 2009-2013 (FRA 2013). Years before, the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA) authorized the NEC as a HSR corridor.

Governmental appropriations in the past two decades allowed track improvements and procurement of HSR train sets, which resulted in the inauguration of the Acela Express in December 2000.

### **2.5.1.** A Note on the Definition of HSR

Before discussing the HSR experience in the NEC, it is important to review some definitions of HSR and understand differences in the meaning of the terms.

There is not an absolute, consensus definition, but multiple differing denotations of HSR. For example:

- The Council of the European Union Directive 96/48 provides a range of capital-oriented definitions of HSR. In terms of infrastructure, HSR means "specially built high-speed lines equipped for speeds generally equal to or greater than 250 km/h [156 mph], specially upgraded high-speed lines equipped for speeds of the order of 200 km/h [125 mph], and specially upgraded high-speed lines which have special features as a result of topographical, relief or town-planning constraints, on which the speed must be adapted to each case." The directive also has a complementary definition of the required rolling stock and some compatibility requirements. (UIC 2013)

- FRA's 2009 "Vision for HSR in America" provides an infrastructure- and serviceoriented definition of HSR, accompanied by an aspiration to relieve other transportation modes. The definition included multiple categories:
  - "HSR Express. Frequent, express service between major population centers 200–600 miles apart, with few intermediate stops. Top speeds of at least 150 mph on completely grade-separated, dedicated rights-of-way (with the possible exception of some shared track in terminal areas). Intended to relieve air and highway capacity constraints."
  - "HSR Regional. Relatively frequent service between major and moderate population centers 100–500 miles apart, with some intermediate stops. Top speeds of 110–150 mph, grade-separated, with some dedicated and some shared track (using positive train control technology). Intended to relieve highway and, to some extent, air capacity constraints."
  - "Emerging HSR. Developing corridors of 100–500 miles, with strong potential for future HSR Regional and/or Express service. Top speeds of up to 90–110 mph on primarily shared track (eventually using positive train control technology), with advanced grade crossing protection or separation. Intended to develop the passenger rail market, and provide some relief to other modes."
- The previous definition contrasts with FRA's 1997 technology-based, competition-driven definition of high-speed ground transportation (HSGT): "HSGT is self-guided intercity passenger ground transportation—by steel-wheel railroad or magnetic levitation (Maglev)—that is time-competitive with air and/or auto for travel markets in the approximate range of 100 to 500 miles."
- Sakamoto (2012) identified an informal, operational, but popular definition of HSR, widely spread in the media and among rail advocacy groups, as: trains with maximum speed of at least 150 mph and running almost always at more than 120 mph. One could expand on this definition, noting that true international-quality high-speed rail is often meant to include trains with a maximum speed of at least 220 mph. This brings strong competitiveness in the range up to 500 miles.

What most definitions have in common is a mix of distances, infrastructure, rolling stock, and operational speeds. Some of them exhibit a range of HSR categories with terms that are not mutually agreed upon. Different agents may use the term HSR indiscriminately. This leads to confusion and debate. For example, someone might deem the Acela Express as HSR-Regional, according to FRA's 2009 definition, because it reaches top speeds of 110-150 mph. Nevertheless, these speeds are achieved only in short segments of the track between Boston and New York, and travel time is much longer than that in countries with full-fledged HSR lines and similar network structure. This diminishes the time-competitiveness with air travel of the Acela Express, particularly in the Boston-Washington market, and it fails the necessary condition be considered HSGT, according to FRA's 1997 definition. The Acela Express would most certainly fail Sakamoto's definition of HSR.

#### **2.5.2.** Prospects for HSR in the NEC

The NEC network structure–a main line with some branches–with high population density, intercity distances on the 100-500 mile range, economic power, and transit connections make it a natural fit for world-class HSR. For this reasons, there are a number of recent and ongoing efforts and studies for improving HSR service in the NEC.

Amtrak and the FRA launched the most relevant initiatives for HSR development in the NEC for the next 30 years: The NEC Master Plan, the Vision for High-Speed Rail in the Northeast Corridor, and the NEC FUTURE – Passenger Rail Corridor Investment Plan.

### 2.5.2.1. The NEC Master Plan

The "NEC Master Plan" (NECMP) of 2010 was an Amtrak-led initiative coordinated with representatives from the FRA, 12 states, and the District of Columbia, commuter and freight operators, and other stakeholders in the Northeast Corridor. As a joint effort for a shared corridor, this plan estimated \$52 billion expenditures from 2010 to 2030 to first bring existing infrastructure to a state of good repair, subsequently increase current capacity to accommodate expected growth of commuters, intercity travelers, and freight trains, and finally improve trip time between city pairs (NEC MPWG 2010).

The NECMP anticipated 23 million annual intercity riders by 2030, a 76% cumulative increase (2.9% per year), and \$1.84 billion revenue. However, this master plan did not consider an international-quality HSR deployment such as that developed in Japan or Europe. Projected trip-

time reductions would not be significant. The Boston-New York trip would have been merely reduced from 3:31 to 3:08 h (23 min), and the New York-Washington from 2:45 to 2:15 h (30 min) (NEC MPWG 2010).

### 2.5.2.2. Amtrak's Vision for HSR in the Northeast Corridor

After the 2010 NECMP was released, Amtrak thought more ambitiously and on a longer timeframe about an international-quality HSR system. Its "*Vision for High-Speed Rail in the Northeast Corridor*" depicted a Next-Generation HSR system (NextGen) on a new, fully dedicated track alignment from Boston to Washington, to be completed by 2040. The \$117-billion estimated investment was to provide a range of frequent HSR services, reducing trip times down to 1:23 h from Boston to New York, and 1:36 h from Washington to New York. Traveling at top speeds of 220 mph with the NextGen HSR, the Washington-Boston trip would take 3:23 h, cutting current travel time in half. Annual ridership would be as high as 17.7 million on the NextGen HSR, and 16.1 million on regional services, five and two times the current ridership levels on the Acela and Northeast Regional, respectively. NEC revenue would rise threefold, yielding an annual operating surplus of \$900 million (Amtrak 2010).

Figure 2.4 shows a comparison of the projected ridership under both plans.





Two years later, in 2012, Amtrak updated the Vision with the development of the "*NEC Capital Investment Program*", reexamining capital investments and possible track alignments on the NEC. The result was a \$150 billion stair-step phasing investment strategy, consisting of two sequenced programs: the NEC Upgrade Program (NEC-UP) and a revised NEC Next Generation

HSR (NextGen HSR). These two programs sought to reconcile the short-term needs of the NECMP with the previously proposed long-term vision for the corridor.

The NEC-UP, active from 2015 to 2025, encompasses a sequence of incremental improvements that would bring infrastructure to a state of good repair, enhance capacity of the NEC through procurement of additional Acela train sets, and reduce travel time through track improvements. It also includes the special Gateway Program in New York City, which would increase the tunnel and terminal capacity from New York to Newark. The top speed of the trains would be 160 mph and even though travel time would improve only slightly, reliability, capacity and frequency of the NEC services would be considerably enhanced.

The NEC NextGen HSR, to be achieved from 2025 to 2040, consists of new, fully dedicated HSR tracks to be implemented in two phases. The Washington-New York track would be completed by 2030, at a cost of \$52 billion, followed by the New York-Boston link by 2040, at a cost of \$58 billion. Still, funding for these projects is yet to be located. Traveling at top speeds of 220 mph, trip time between New York to either Boston or Washington would be 1:34 h each way.

Figure 2.5 shows the six steps that comprise the NEC stair-step capital investment program.





As a complement to the NEC Capital Investment Program, Amtrak produced the "*NEC Business and Financial Plan*" with revised projections of travel demand and revenue, estimating 43.5 million annual riders and \$4.86 billion revenue by 2040.

### **2.5.2.3. NEC FUTURE**

The "*NEC FUTURE – Passenger Rail Corridor Investment Plan*" is an ongoing planning effort launched by the FRA to determine, assess and prioritize future investments on the NEC. The overarching goal is to develop a rail network as part of an integrated, multi-modal transportation solution in the NEC through 2040 (NEC FUTURE 2013a). The NEC FUTURE is a three-phase planning process to be completed by 2015.

As a formal decision making process of a full range of service and alignment alternatives, the NEC FUTURE encompasses a service development plan (SDP) and a programmatic environmental impact statement (EIS), engaging multiple stakeholders, and developing a passenger rail corridor investment plan. Interestingly, the NEC FUTURE is an overall rail transportation planning process and not an exclusive HSR planning process, unlike Amtrak's current vision.

After an initial scoping process with several public meetings and comments, a preliminary report with fifteen possible alternatives was issued in April 2012. Notably, the alternatives do not consider institutional changes, focusing solely on different levels of investment, alignments, and services. The term "institutional-neutral" is used widely in this planning process as an opportunity to provide new services that are not provided today, for example: a new direct service between two cities, but not in the sense of not favoring an institutional structure over another (or a given stakeholder over another), if considering new institutional arrangements.

Although some alternatives are suitable for top speeds of 220 mph, alternatives that limit top speeds to 160 mph, including the do-nothing alternative, are also under consideration (NEC FUTURE 2013b). The study's end result could incorporate for prioritization many of Amtrak's prior recommendations or go another direction.

Figure 2.6 shows a summary of the networks of preliminary alternatives for the NEC in this study. The northern leg of the corridor is visibly more open to alternative alignments, including the developing of connecting corridor linkages. The southern part of the corridor has far fewer variations, thus resembling what Amtrak presented in its vision for the NEC.



#### Figure 2.6- Initial Alternatives Networks for NEC Spine and Connecting Corridors (NEC FUTURE 2013b)

### 2.5.2.4. Alternative Approach to HSR in the US

In addition to these three planning efforts, there have been studies that looked at the NEC with innovative methods and provided alternative ways to develop.

Sussman et al. (2012a, 2012b) use the CLIOS Process–an engineering systems framework for analyzing Complex, Large-Scale, Inter-Connected, Open, Sociotechnical systems—, scenario planning, and flexibility analysis to study the implementation of HSR in the NEC. The analysis recognizes interactions between institutions and physical entities. In contrast with the NEC FUTURE, four strategic decisions comprise the bundles of strategic alternatives in HSR development, which, in fact, consider institutional decisions in the NEC: technology, ownership, vertical structuring, and competition.

The analysis notes a great deal of uncertainty in such a long-term planning process. To account for the tremendous political and economic uncertainty, the alternatives are analyzed under different scenarios (i.e. stories about the way the world might turn out but not predictions of the future or extrapolations of the past) that provide a wider range of possible futures. The result was a clear prevalence of uncertainty and a broad range of performance of the alternatives.

That motivates the incorporation of institutional and technological flexibility into the alternatives. Flexibility is the right but not the obligation to change a decision in order to respond dynamically to different realizations of the future (i.e. an option). In this sense, institutional flexibility was the option to change the institutional structure of Amtrak, and the technological flexibility was the option to change from implementing a fully dedicated HSR to making incremental upgrades on the existing network. The end-result of this qualitative analysis was that flexibilities, like insurance, may have a cost, but they improve the expected outcome of the system when uncertainty dominates. Furthermore, the flexibility may facilitate the implementation of HSR by enabling adaptation of the alternatives to uncertain futures.

#### 2.6. Chapter Conclusion

Amtrak, the National Railroad Passenger Corporation established in 1971, has been harshly criticized over forty years of operations for its level of service, managerial practices, and continuous unprofitability, to the extent that critics call for an end of subsidies or alternative institutional arrangements. Amtrak responds that it has recently improved performance and that the stream of subsidies is much lower than that of other transportation modes. Indeed, in 2000-2012, there was substantial ridership and revenue growth at all levels, but the performance of the 22,000-mile nationwide system greatly contrasted with the performance of the 450-mile NEC sub-network. Today, nationwide unprofitability and capacity constraints in the NEC remain as two of the most pressing challenges that Amtrak faces. A productivity analysis could help settle the dispute between Amtrak and its critics by determining if productivity changes in the past may inform further improvements in the future. Furthermore, it could help identify routes or sub-networks of Amtrak with great potential for improvement that could be prioritized under a funding-constrained scenario.

The NEC, an intricate corridor stretching from Boston to Washington, and the preeminent face of Amtrak, is at a potential renaissance point. Thus far, the introduction of the Acela Express in 2000–perhaps not a true HSR service but an improved service—benefited Amtrak and mobility within the megaregion. Even with HSR trains running below their full potential, Amtrak showed increasing operating profits, ridership, and air/rail market shares in the NEC. Furthermore, the incremental ridership of the Acela Express was very profitable. These two reasons lead one to believe in the potential of future HSR developments.

However, the implementation of future HSR in the NEC is nonexempt from complex upgrading challenges. The characteristics of the corridor and the political support from the Obama administration to HSR across the country motivated enhancements to the NEC. However, a main challenge in upgrading this multi-stakeholder, multi-state, multi-purpose corridor under a funding-constrained scenario and a polarized debate is in managing the pressing issues and determining a consensual strategy for moving forward effectively. Some initiatives and studies attempt to do so: the NECMP (2010), the Amtrak vision for HSR in the NEC (2010, 2012), the multi-stakeholder effort NEC FUTURE (2012-present), and Sussman et al. (2012a, 2012b).

There are still alternatives to be scoped and significant choices to be made: investment levels, alignments, services, perhaps even institutional arrangements. Uncertainty dominates in such a long-term planning and implementing process. For some critics, substantial trip time reductions are scheduled to be realized too far in the future. To make things more complicated, but perhaps even more comprehensive, the NEC FUTURE seeks an integrated, multi-modal transportation solution in the NEC through 2040, potentially not even considering further HSR development. This planning process will not be completed until 2015. Again, a productivity analysis could help evaluate and shape such implementation strategy by determining if productivity changes in the past suggest future improvements in the NEC, or by prioritizing areas with great potential for improvement.

Finally, while recently improved performance may be attributed to a number of factors, at this moment it is difficult to point to specific drivers of performance and assess their impacts.

The next chapter lays out a structure to study productivity of passenger rail in the NEC and addresses the productivity of the NEC-spine trains from FY 2002 to 2012.

54

#### 2.7. Chapter References

Amtrak (2003-2012). Amtrak Year-End Monthly Performance Reports.

Amtrak (2010). A Vision for High-Speed Rail in the Northeast Corridor.

Amtrak (2011a). Amtrak's Northeast Corridor: FY 2011.

Amtrak (2011b). News Release ATK 133, October 13, 2011.

Amtrak (2011c). News Release ATK 11-020, February 14, 2011.

Amtrak (2012). The Amtrak Vision for the Northeast Corridor: 2012 Update Report.

UIC (2013). Council of the European Union Directive 96/48. Accessed on March 2013 www.uic.org/spip.php?article971

Gardner, S. (2013). Creating Capacity for Growth–New Approaches for Managing the Future of the NEC. TRB 2013 Annual Meeting: Socioeconomic and Financial Aspects of Intercity Passenger Rail Subcommittee.

NEC Future (2013a). NEC FUTURE – Passenger Rail Corridor Investment Plan. Accessed on March 2013. <u>www.necfuture.com</u>

NEC Future (2013b). NEC FUTURE – Passenger Rail Corridor Investment Plan. Preliminary Alternatives Report.

Puentes, R., Tomer A., Kane, J. (2013). *A New Alignment: Strengthening America's Commitment to Passenger Rail*. Metropolitan Policy Program at Brookings.

Sakamoto, R., & Massachusetts Institute of Technology. Dept. of Civil and Environmental Engineering. (2012). *High Speed Railway Productivity: How Does Organizational Restructuring Contribute to HSR Productivity Growth?* (S.M. in Transportation, Massachusetts Institute of Technology, Dept. of Civil and Environmental Engineering).

Sussman, J., Archila, A.F., Carlson S.J., Peña-Alcaraz, M., Stein N. (2012a). *Transportation* in the Northeast Corridor of the U.S.: A Multimodal and Intermodal Conceptual Framework. web.mit.edu/hsr-group/documents/jiti.pdf

Sussman, J., Pena-Alcaraz, M., Carlson, S. J., Archila, A. F., Stein, N. (2012b) Analysis of High-Speed Rail Implementation Alternatives in the Northeast Corridor: the Role of Institutional and Technological Flexibility.

The NEC Master Plan Working Group (MPWG) (2010). The Northeast Corridor Infrastructure Master Plan.

U.S. Bureau of Labor Statistics (USBLS) (2013). Consumer Price Index. http://www.bls.gov/cpi/data.htm

U.S. Government Accountability Office (USGAO) (2004). Intercity Passenger Rail: Amtrak's Management of Northeast Corridor Improvements Demonstrates Need for Applying Best Practices. GAO---04---94, U.S. Government Accountability Office, Washington, D.C.

U.S. Census Bureau (2013). Census Data. Accessed on March 2013. www.uscensus.gov

U.S. Department of Transportation Federal Railroad Administration (FRA). (1997). *High-Speed Ground Transportation for America*. U.S. Department of Transportation: Washington, D.C.

U.S. Department of Transportation Federal Railroad Administration (FRA). (2009). Vision for High-Speed Rail in America. High-Speed Rail Strategic Plan. U.S. Department of Transportation, Washington, D.C.

U.S. Department of Transportation Federal Railroad Administration (FRA). (2013) HSR overview. Accessed on February 2013. www.fra.dot.gov/Page/P0140

### 3. Past Productivity in the NEC

### 3.1. Introduction

This chapter lays out a structure to study the productivity of passenger rail in the NEC. Then it addresses the productivity of the NEC-spine trains (as defined in Chapter 2) from FY 2002-2012.

#### 3.2. Data, Scope, and Method of Analysis

The data and method of analysis are critical in a productivity study, and therefore must be carefully chosen (see Chapter 1). This analysis focuses on the evolution of four Single Factor Productivity (SFP) metrics, on the *Express, Regional*, and *Combined NEC-level* services. While three SFP metrics give insights into the productivity on the demand side (ridership, revenue, and RPM SFP with respect to operating costs), only one (ASM SFP with respect to operating costs) refers to the productivity on the supply side.

### 3.2.1. Sources of Data

Data were compiled for FY 2002-2012 from Amtrak's year-end monthly performance reports. The Route Performance section (section C) of those reports included operational data at the individual route level, while the Financial Results section (section A) included data on ridership and revenue (see Appendix A: NEC Data FY 2002-2012). Most data were monetized (revenue, cost breakdown, and contribution/profit) except for ridership data. Auxiliary metrics such as Revenue Passenger-Miles (RPM), Available Seat-Miles (ASM) and Average Load Factor (ALF) were derived from reported, monetized data, where possible.

Amtrak changed the format of the monthly performance reports four times during the period of study: in FY 2005, 2006, 2009, and 2010. These format changes comprised different, sometimes incompatible cost breakdowns, allocation methods, or route definitions. Fortunately, data were reported for the current and past fiscal year in each document. This enabled valid year-to-year comparisons and calculations. In years with a format change, this also allowed us to check that data under different formats were comparable. In the face of conflicted data for a given fiscal year, after consideration of format changes, priority was given to audited over preliminary reports and to newer over older reports.

Accordingly, the analysis was divided into different time periods depending on the route definition and the productivity metric, as will be shown in Section 3.3.2: SFP Analysis.

## 3.2.2. Output and Input Data

Table 3.1 displays the output and input data categories retrieved from Amtrak's reports since FY 2002. White cells indicate data that were directly retrieved from Amtrak's reports; light-blue cells show indirectly calculated data; and gray cells point to data that were either not reported or that could not be computed at all.

Reports	2003, 2004 2005		2006, 2007, 2008	2009	2010, 2011,
FY	2002-2004	2004-2005	2005-2008	2008-2009	2009-2012
			Ridership		
	Revenue		Total R	Revenue	
Outputs			Ticket Revenue		
	-		Revenu	e Passenger-Miles	(RPM)
	-		Avai	lable Seat-Miles (A	ASM)
	Cost	Cost	Total Attributed Costs	Total Costs (Excl. Dep & Int)	Total Costs
	-	FRA Defined Costs	Direct Labor	FRA Defined Costs	Total Costs excl. OPEB's, Capital Charge and Other Costs
Inputs	-	Remaining Direct Costs	Other Direct Costs	Total Remaining Direct Costs	OPEB's – Other Post- Employment Benefits
		Total Non- Direct Costs (Exclude Dep, Int & Discont Ops)	Total Shared Costs	Total Non- Direct Costs	Capital Charge*

### Table 3.1- Outputs and Inputs

Categories of data varied according to the reporting format, and, in some fortunate cases, were comparable despite such format changes. As shown by the thick borders in Table 3.1, outputs were consistently reported with only minor name changes, while inputs were rarely so. "Revenue" and "Total Revenue" referred to the same output data.

On the inputs side, total costs were reported before depreciation, interest, capital charges, and discontinuous operations, despite showing different labels. However, the cost breakdown did present incompatible categories after each format change. For this reason, total costs were considered when calculating productivity metrics instead of the specific cost categories.

No input "quantity" data were reported; rather, all inputs were "monetized", a condition that allowed their aggregation into a single-input metric: *costs*. Thus, the production process of Amtrak could be considered as single-output single-input, with varying output categories but with costs as single input. Hence, the productivity metrics used are labeled *single factor productivity* (SFP) instead of *partial productivity* (see Figure 1.1).

### 3.2.3. Route Definitions

In addition to data categories, Amtrak also modified the route definitions of the NEC in the monthly performance reports, even within different sections of a single document. Furthermore, various Amtrak services ended operations in the past decade. This translated into data that were sometimes reported for combined routes, or that were untraceable to the present day due to discontinuity in the service offered.

For these reasons, the analyzed routes were scoped down to *Express*, *Regional*, and an overall *NEC* level. Table 3.2 shows the distinct route definitions in the NEC for FY 2002-2012, and a description of the routes follows.

Reports	2003, 2004 2005		2006, 2007, 2008	2009	2010, 2011, 2012			
FY	2002-2004	2004-2005	2005-2008	2008-2009	2009-2012			
Express	01-4	Acela Express	01-Acela and 01/02- Acela/Metroliner	-Acela				
	02	-Metroliner						
Destand	05-Regional	05A-Regional/Federal	05-Regional(s)	east Regional				
Regional	06-Federal							
Clocker	13-C	locker Service						
Crew			91-NEC Unknown					
Labor			(Crew Lab					
Special			99 and	99-(NEC)				
Trains			06/98/99-NEC Spe	Special Trains				
Bus Route			70-NEC Bus					

Table 3.	<b>2- NEC</b>	Route	Definitio

**EXPRESS:** *Express* is comprised of two routes: the Acela Express and the Metroliner. The Acela (Route 01 – RT01) was described in Section 2.4.2: NEC Operations and Services. The Metroliner (RT02) was an express service that ran between New York and Washington, in the southern leg of the NEC, from January 1969 to October 2006, and is regarded as an important precursor of HSR (Goldberg 2006). Originally, the Metroliner was scheduled to be retired in the early 2000's, but extended its lifetime due to recurrent technical problems of the Acela train sets.

Upon the Metroliner's retirement, the Acela remained the only express service in the NEC, and its data were reported individually. While these two services were accounted separately in the FY 2003-2005 reports, they were jointly reported in the FY 2006 report, partly because the Metroliner replaced most of the Acela services in that year, due to technical problems of the latter.

**REGIONAL:** *Regional* is comprised of the (Northeast) Regional and the Federal. The (Northeast) Regional (RT05) was described in Section 2.4.2: NEC Operations and Services. The Federal (RT06) was a service that replaced a dedicated sleeper train on the NEC, and gradually merged operations with regional services until its retirement in 2006. The Federal was of little relative importance; for instance, it carried 3.7% of the passengers and collected 4.5% of the ticket revenue of RT05 in FY 2002.

In the FY 2003-2004 monthly performance reports, data for the (Northeast) Regional and Federal were reported separately. In FY 2005, both services were jointly reported as Regional/Federal (RT05A). By FY 2006, the Federal was completely out of service, a point from which the Northeast Regional (RT05) performance data were reported individually.

**CLOCKER:** The Clocker Service (RT13) ran between Philadelphia and New York, mostly serving commuters and day-travelers, from May 1971 until October 2005. In its last years of service, the Clocker carried close to 2 million passengers per year. Upon termination of the service those riders shifted mainly to regular commuter services not offered by Amtrak. Not until FY 2012 did Amtrak break the NEC ridership record that had been previously established in times of the Clocker (11.3 million annual passengers in FY 2004). Because the Clocker service is no longer available, it was removed from the scope of analysis but considered when assessing the overall NEC productivity.

**MISCELLANEOUS ROUTES**: In addition to the abovementioned services, there were miscellaneous routes running on the NEC: the NEC Crew Labor, NEC Special Trains, and NEC Bus Route. Some did not transport revenue passengers, and their incidence on costs and revenues was insignificant or non-existent at all. For this reason they were not analyzed individually. However, they were in fact considered in the calculations at the overall NEC level.

Table 3.3 shows a timeline of the main route changes in the NEC-Spine, which were just discussed.

YEAR	EVENT
1969	January, Metroliner (RT02) starts operations
1971	May, Clocker Service (RT13) starts operations
1995	Northeast Regional (RT05) starts operations
2000	December, Acela Express (RT01) starts operations
2002	August, Acela Express braking system problems
2005	April-September Acela Express stoppage
2005	October, Clocker Service (RT13) ends operations
2006	October, Metroliner (RT02) ends operations
2006	Federal (RT06) ends operations

Table 3.3- Timeline of Routes in the NEC Spine

Appendix A: NEC Data FY 2002-2012 includes tables with data for the NEC and exhibits of original data.

#### 3.2.4. Method of Analysis

The choice of a method for calculating productivity depends on factors like purpose of analysis, type of data, data availability, computational resources and context-specific constraints. Robustness is a most desired attribute that a productivity analysis should have (see Section 1.7: Chapter Conclusion).

Price effects were removed by inflating monetized quantities by an appropriate consumer price index (CPI) to 2012 USD. This guaranteed that productivity changes could be attributed to changes in technical/managerial change, economies of scale, or external factors, and not to price effects plus some of these factors (see Section 1.5: Data Requirements).

Costs were inflated by the general CPI (series CUUR0000SA0), while revenues were inflated by the transportation CPI (series CUUR0000SAT 2002-2007 and CUUR0000SS53022 2007-2012) (USBLS 2013). Using the transportation CPI for expenditures would have ignored that Amtrak paid for goods and services that are not exclusively related to transportation, e.g., utilities. On the other hand, it was preferable to manipulate revenues with the transportation CPI over the general CPI, as Amtrak's output was indeed a transportation service. A specific CPI series for intercity train fare was available since 2007 (CUUR0000SS53022). For preceding years, the transportation CPI was used instead. This returns more reliable results for recent years, and, as a side note, results are robust enough relative to the use of one series or the other.

This productivity analysis selected a popular non-parametric (index number) approach (see Section 1.4: Methods for MFP/TFP). Although a non-parametric of approach cannot distinguish between the specific sources of productivity change, thus sacrificing the amount of information it returns, the alternative, a parametric approach, is more data-intensive and computationally complex. Moreover, it would have required the estimation of production functions that cannot be estimated with currently available data.

In order to strengthen the selected non-parametric approach, four distinct SFP metrics were analyzed: ridership, revenue, RPM, and ASM productivity with respect to operating costs. Each SFP metric had a different meaning that gave different insights into what the specific productivity changes were. Thus, using several metrics allowed making an inference on the drivers of productivity change without the need for a parametric approach.

Next, the year-to-year SFP was calculated by considering the total costs as the single input, and a varying output category as the single output. As mentioned earlier (see Section 3.2.2: Output and Input Data), the Amtrak's routes could be reduced to a single-output single-input process, thus labeling productivity metrics as SFP instead of partial productivity. This general formulation is shown in Equation 3.1.

**Equation 3.1- Year-To-Year SFP Formulation** 

$$\ln\left(\frac{SFP_1}{SFP_0}\right) = \ln\left(\frac{y_1}{y_0}\right) - \ln\left(\frac{x_1}{x_0}\right);$$
  
Where y = output, x = input, 1 = current year, 0 = previous year

This particular type of transformation is a non-parametric Törnqvist trans-log index. Several authors have praised it as a robust and convenient to compute method, preferable over other main index number methods like Laspeyres, Paasche or Fisher (OECD 2001, Coelli et al. 2005, Caves et al. 1981). Apostolides (2008) also stated that there was very little empirical difference between the Törnqvist trans-log index and the growth accounting method, the two most robust methods widely used in the literature. The Törnqvist formula is easier to compute.

As per recommendation of OECD (2001), the cumulative SFP was obtained by compounding the year-to-year variations instead of by directly computing an inter-year SFP. This has two advantages. First, year-to-year measures guarantee comparability of data, since these were retrieved from the same report. As mentioned earlier, there were changes in the cost-allocation method in some reports, which complicated valid multi-year comparisons. Second, for the (not-analyzed) case of multiple inputs, i.e., MFP or TFP, the year-to-year changes would handle changes in input/output weights more gradually than cumulative calculations with respect to a fixed base year (see Section 1.4: Methods for MFP/TFP).

Finally, FY 2005 was selected as the base year for compounding the cumulative SFP for two reasons. First, there was certainty of the route definitions from that year on. Second, it was the earliest that all productivity metrics were defined.

### **3.3. Past Productivity in the NEC**

### 3.3.1. Context of the Past Decade in the NEC 2002-2012

Four notable episodes marked the past decade in Amtrak's NEC. First, two important route changes took place: the removal of the Clocker Service in October 2005 (beginning of FY 2006) and the last run of the Metroliner in October 2006 (beginning of FY 2007) (see Table 3.3). Second, the Acela train sets experienced recurrent technical problems with its braking system in 2002 and 2005. The latter removed the entire fleet from April to July 2005, and reestablished full Acela service by September 2005. Third, a salient, external event occurred: the economic recession of 2008-2009, the most serious economic recession since the Great Depression of 1930. And fourth, the Obama administration allocated funding for targeted capital investments on the NEC starting in 2009.

Figure 3.1 shows the ridership breakdown of the NEC. Ridership on express services has been flat since FY 2002, at 3.0—3.4 million annual passengers, with a downturn in FY 2005 due to technical problems of the Acela train sets, and another in FY 2009 due to the economic recession. The former, a problem on Amtrak's side, coincided with a temporary surge in ridership on regional services, as those trains accommodated some of the spilled demand from express services.



Figure 3.1- NEC Ridership Breakdown FY 2002-2012 (Adapted from Amtrak 2003-2012)

On the other hand, ridership on regional services has gone up almost steadily at about 200,000 riders per year, with some fluctuations along the way: the aforementioned surge in FY 2005, for better, and the economic downturn of FY 2009, for worse. Without considering the Clocker Service, ridership on the NEC has also increased at 200,000 riders per year, with some fluctuations, and most recently at 500,000 riders per year. While traffic growth is gratifying, it is a worrisome situation for an already constrained corridor.

Figure 3.2 shows the revenue breakdown of the NEC. Technical problems with the Acela Express resulted in lost revenue for the NEC, particularly in FY 2005. After that, express services repositioned in the market and continuously increased its revenue, with the exception of the FY 2009 setback.

Regional services, in contrast, grew steadily and were less sensitive to economic conditions than express services. Thus, the volatility of the NEC ticket revenue was explained mostly by the sensitiveness of express services, while the majority of the net revenue growth was explained by growth in regional services.



Figure 3.2- NEC Ticket Revenue Breakdown FY 2002-2012 (Adapted from Amtrak 2003-2012)

As implied by Figure 3.1 and Figure 3.2, the effect of the economic recession of 2009 was a regrettable 2-3-year setback in ridership and revenue, for all routes in the NEC. Overall, the

effects of lost or gained ridership on ticket revenue were more pronounced for express services than for regional services, revealing that the former are more sensitive than the latter.

### 3.3.2. SFP Analysis

As mentioned earlier (see Section 3.2.4: Method of Analysis), four distinct SFP metrics were analyzed: ridership, revenue, RPM, and ASM SFP with respect to operating costs. For simplicity, the words "operating costs" will be removed from the productivity label, as it is the sole input of each metric. Only the most relevant SFP figures appear in this section but additional items are contained in Appendix B: Additional NEC SFP Figures and Tables FY 2002-2012.

Each SFP metric has a particular meaning. ASM SFP is a proxy for the effectiveness at generating transportation capacity, whereas revenue, ridership, and RPM SFP are measures of the effectiveness at exploiting the available capacity. Given that *ticket* revenue SFP and *total* revenue SFP had a facsimile behavior for all routes and years, they were named simply as *Revenue SFP*, and data from ticket revenue SFP were reported in its place. Revenue SFP reflects how effective Amtrak was at economically exploiting the available capacity.

### 3.3.2.1. Usage and Capacity

Table 3.4 displays the year-to-year ridership SFP, revenue SFP, RPM SFP, and ASM SFP for the NEC, express, and regional routes in FY 2002-2012.

	NEC SFP					Express SFP					Regional SFP							
FY	Ride	ership	Rev	enue	RPM	ASM	Rie	dership	Revenue	R	PM	ASM	Rid	ership	Rev	enue	RPM	ASM
2011-2012		10%		11%	8%	5%	6	9%	11%		8%	9%		9%		11%	8%	2%
2010-2011		15%		20%	16%	15%	6	13%	20%		14%	9%		17%		19%	17%	18%
2009-2010		3%		0%	5%	-2%	ó	12%	7%		13%	3%		-2%		-5%	0%	-5%
2008-2009		-11%		-13%	-8%	3%	ó	-12%	-13%		-10%	1%		-11%		-14%	-8%	4%
2007-2008		11%		10%	17%	7%	6	3%	7%		6%	1%		16%		13%	24%	11%
2006-2007		2%		7%	4%	-3%	6	5%	6%		7%	-7%		2%		6%	2%	-1%
2005-2006		-18%		-10%	-19%	-19%	ó	-17%	-13%	1000	-15%	-20%		-18%		-10%	-20%	-17%
2004-2005		9%		2%				5%	-2%					12%		9%		
2003-2004		9%		3%				6%	2%					10%		4%		
2002-2003		1%		-4%				0%	-3%					1%		-4%		
Yearly Av	Yearly Average Growth																	
2005-2012		0.9%		2.8%	2.5%	0.4%	ó	1.3%	2.9%		2.8%	-1.1%		1.0%		2.1%	2.4%	1.3%
2002-2012		2.4%		2.0%				2.0%	1.7%					3.0%		2.4%		

Table 3.4- NEC, Express, and Regional Year-To-Year SFP Growth, FY 2002-2012

In general terms, there were productivity improvements in the past decade at all route levels – NEC, express, and regional— and in all metrics. Since 2005, the yearly average growth in ridership, revenue, RPM, and ASM SFP at the NEC level was 0.9%, 2.8%, 2.5%, and 0.4%

respectively. This means the NEC became cumulatively 20% more productive on the demand side (as measured by revenue SFP and RPM SFP) and 3% more productive on the supply side (ASM SFP) in the past seven years.

However, this was not a stable, upward trend, but rather a volatile one, boosted and overcompensated by notable productivity improvements in the past three years. Recent, favorable years resulted in yearly increments as high as 20% for some SFP metrics in the NEC, while unfavorable shocks in FY 2006 and 2009 resulted in yearly dips as low as -19%. Such dips setback what might otherwise have been an ever-increasing evolution of SFP. The end result from FY 2005 to 2010 was a flat or even negative SFP growth, which contrasted with previous, though modest, improvements in ridership and revenue SFP in the NEC.

The major episodes previously listed (see Section 3.3.1: Context of the Past Decade in the NEC 2002-2012) provided a number of reasons for this varying productivity. Remarkably, the economic downturn of 2009 was less impactful on the NEC productivity than the problems associated with the stoppage of the Acela services in some months of 2005. The economic recession was mostly troublesome on the demand side, whereas the train stoppage affected the supply, hence increasing costs and underserving demand. As evidence, the NEC ASM SFP dropped -19% in FY 2005-2006, but increased 3% during the economic recession, whereas the RPM productivity decreased -19% and -8% in the two situations, respectively.

Counterintuitively, the reestablishment of the Acela Express in FY 2006 largely reduced the productivity for all metrics, given that Acela train sets greatly increased the costs of producing transportation services. Unfortunately, data on RPM and ASM before 2005 were not available, which would have allowed assessment of the full effect of the stoppage and reestablishment of the Acela Express.

Figure 3.3 shows the cumulative SFP metrics in the NEC for FY 2002-2012, with FY 2005 as base year for all calculations.

67





The NEC was less productive in FY 2010 than in FY 2005 for all SFP metrics. However, by FY 2012, Amtrak was far more effective at using the available capacity in the NEC (by filling up trains with more passengers over longer distances) than at generating it (running trains cheaper) with respect to FY 2005. As evidence, cumulative ASM SFP has been lower than cumulative RPM SFP since FY 2006.

The increased demand combined with a low marginal cost per RPM evidences economies of scale that boosted productivity on the demand side in recent years. Most of the new ridership was accommodated on existing capacity, at low extra costs.

Naturally, these economies of scale have had little effect on the supply side. ASM productivity was improved, instead, by recent appropriations of funding that addressed critical infrastructure bottlenecks on the NEC. This allowed the NEC to become in FY 2012 just as ASM productive as it was in FY 2005. The difference now is that the increased costs of running HSR rolling stock are compensated for by a more efficient use of infrastructure.

Also, cumulative RPM SFP exceeded ridership SFP, implying that people were traveling longer distances on the NEC. This was also evidenced by the increased market share between the three major cities of the NEC over the last decade, with essentially the same number of passengers.

Finally, the usage of the capacity was more volatile with respect to external factors than the generation of capacity in the NEC. For instance, the economic dip of 2009 greatly affected the demand side of the NEC (RPM, ridership and revenue SFP) but had little influence on the productivity of the supply side (ASM SFP). Ridership, revenue, and RPM SFP also increased at higher rates than ASM SFP in favorable years.

Thus, such sensitive behaviors suggest a few critical characteristics of the NEC: volatility to external events, large economies of scale, and slow capacity adjustments, which varied depending on the route.

### **3.3.2.2.** Route Comparisons

Figure 3.4 shows the cumulative SFP metrics of the express and regional services for FY 2002-2012, with FY 2005 as base year for all calculations.





There are two important observations. First, after FY 2006, the ASM productivity of express services kept going down while the regional recovered more rapidly. The introduction of more Acela services (newer rolling stock) and the removal of older trains (Metroliner) increased operating cost per train-mile. Such costs remained high for the express routes, i.e., low ASM productivity, until the recent capital investments on the NEC.

Second, the productivity of express services was more volatile than that of regional services, providing thus a greater range of performance, for better or worse.

### 3.3.3. Sensitivity Analysis

At this point, it is important to note that the results presented so far are robust to changes in key assumptions.

The route selection has little influence on productivity metrics. See Appendix B: Additional NEC SFP Figures and Tables FY 2002-2012 for tables that show that year-to-year productivity before 2005 was fundamentally similar, even after inclusion or exclusion of some routes.

Different calculations with alternative CPI for transportation return similar results. For instance, using the entire series CUUR0000SAT to deflate revenues for FY 2002-2012 would return comparable results to the calculations shown in this analysis.

### 3.4. Chapter Conclusion

After a process of data rationalization and scoping of the analysis at the route levels, this chapter demonstrated that a non-parametric SFP Törnqvist trans-log index with varying metrics was useful to assess the productivity of the NEC-spine trains from FY 2002 to 2012. This structure of analysis is first of its kind for intercity passenger rail transportation productivity in the U.S., which has never been studied in isolation before, or for the selected time period (to the best of the author's knowledge). Despite data constraints and inconsistencies, the analysis provided robust results that could be associated to notable episodes of the past decade. It went on to evaluate specific sets of routes and it overcame various limitations of parametric methods through the use of multiple SFP metrics and year-to-year calculations. Within the limited productivity literature for rail transportation in general, the analysis has provided a robust platform for future productivity studies of passenger services. An immediate extension of this method could be the analysis of other routes or sub-networks of Amtrak in the same time period.

The productivity analysis was useful to understand the system's behavior. In general, the NEC experienced volatile productivity changes in FY 2002-2012; by FY 2010 it was less productive than in FY 2005, but in the last three years its productivity boosted. Several events provided reasons for that varying productivity: route changes, technical problems with train sets, capital investments in the NEC, and economic recession and recovery. The results suggested critical characteristics of the NEC: volatility to external events, large economies of scale, and slow adjustment of capacity. Such characteristics, however, were not homogenous and rather

depended on specific routes. For instance, the productivity of express services was more volatile than that of regional services, thus showing a greater range of performance. In addition, increasing ALF suggest that the productivity increments achieved through economies of scale might be limited in the future unless the capacity of the corridor is enhanced. This is a worrisome situation for a corridor that exhibits slow capacity adjustments and that not until 2015 will define a clear capital investment strategy.

These results are useful in thinking about if and how to move forward with HSR in the NEC. Express services proved to have a wide range of performance, thus revealing risks and opportunities for an uncertain future. The fact that NEC users are traveling longer distances is promising for HSR, as it shows that trains are now more competitive in short-haul (<500 miles) air markets. When contrasted with previous studies of rail transportation in the U.S., Amtrak's results are impressive. Although results are not directly comparable, Amtrak experienced higher average productivity improvements in FY 2002-2012 than the U.S. railroads (freight and passenger) in 1951-1974 (2.5% RPM SFP v. 1.5% [RPM & RTM] TFP) (Caves et al. 1980). These are reasons to be optimistic with the potential for enhanced HSR service.

However, the ability to implement and operate HSR is similar as the state of the regional economy so far as productivity concerns go. For example, the reestablishment of the Acela Express in FY 2006 reduced productivity more than the economic recession of 2009, and ASM SFP only recovered after infrastructure investments in recent years. Although the introduction of 40 additional Acela-Express coach cars to lengthen the train sets in FY 2014 is promising (Amtrak 2011c), it might not increase ASM productivity if not coordinated with infrastructure enhancements and modifications to maintenance facilities.

Furthermore, productivity benefits may take years to realize. Perhaps productivity is expected to go down after the initial years of the establishment of a new HSR. If the financial leverage is not there to temporarily support adverse events, or if the market and managers take too much time to adapt to changing conditions, there may be reasons to doubt future HSR development in the NEC.

When designing a strategy for targeted investments in the NEC, it would be useful to analyze the northern and southern leg of the NEC spine independently. An analysis at a more disaggregate

level would allow flagging potential areas for improvement, and could determine where enhancements would be the most effective.

The next chapter will use the structure developed in this chapter to analyze the prospects of future HSR in the NEC.
### 3.5. Chapter References

Amtrak (2003-2012). Amtrak Year-End Monthly Performance Reports.

Amtrak (2011c). News Release ATK 11-020. February 14, 2011.

Apostolides, A. (2008). *A Primer on Multifactor Productivity: Description, Benefits, and Uses.* US Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, Office of Advanced Studies, Washington, DC.

Caves, D. W., Christensen, L. R., & Swanson, J. A. (1980). Productivity in US Railroads, 1951-1974. The Bell Journal of Economics, 166-181.

Caves, D. W., Christensen, L. R., & Swanson, J. A. (1981). Economic Performance in Regulated and Unregulated Environments: A Comparison of US and Canadian Railroads. The Quarterly Journal of Economics, 96(4), 559-581.

Coelli, T. J., Rao, D. S. P., O'Donnell, C. J., & Battese, G. E. (2005). An Introduction to Efficiency and Productivity Analysis. Springer.

Goldberg B. (2006). *Metroliner's Amazing Career*. TRAINS Magazine, June 2006. Retrieved on April 2013, from:

http://trn.trains.com/en/sitecore/content/Home/Railroad%20Reference/Passenger%20Trains/200 6/06/Metroliners%20amazing%20career.aspx

Measuring Productivity, OECD (2001). Manual: Measurement of Aggregate and Industry-Level Productivity Growth.

The New York Times (2005). *Amtrak Suspends Acela Trains After Finding Brake Problems*. Retrieved on April 20, 2013 from <u>http://www.nytimes.com/2005/04/15/national/15cnd-amtr.html?\_r=0</u>

U. S. Bureau of Labor Statistics (USBLS) 2013. Consumer Price Index. Retrieved from http://www.bls.gov/cpi/data.htm

## 4. Future Productivity in the NEC

### 4.1. Introduction

This chapter uses the structure of analysis and findings of Chapter 3 to make inferences on the productivity of future HSR developments in the NEC.

#### 4.2. Cases of Analyses

Three cases of analyses for the future productivity of the NEC were developed.

The first case of analysis is obtained by extrapolating the recent trends identified in Chapter 3. This case is referred to as **EXTRAPOLATION**.

The additional cases of analyses are based on Amtrak's and FRA's perspectives on HSR development in the NEC for the next 30 years, which represent the most well-documented initiatives for development of the corridor: the NEC Master Plan (NECMP) in 2010, the Vision for HSR in the Northeast Corridor in 2010 and updated in 2012, and the NEC FUTURE – Passenger Rail Corridor Investment Plan in 2012-2015 (see Section 2.5.2: Prospects for HSR in the NEC). The first two of those initiatives represent the two additional cases of analyses for this chapter: **NECMP**, and **NEC VISION**. The third initiative, the NEC FUTURE, was not considered as a case for analysis because it is at the early stages of development, where only preliminary alternatives without detailed information are available (see Section 2.5.2.3: NEC FUTURE).

The following is a brief description of the three cases of analyses to be discussed in this chapter.

1. EXTRAPOLATION: our 20-year projection of the trends for the four distinct SFP metrics analyzed in Chapter 3, i.e., ridership SFP, revenue SFP, revenue passenger-miles SFP, and available seat-miles SFP. This is a hypothetical example created by the author. Neither Amtrak nor the FRA claim to sustain such productivity growth rates. In addition, the EXTRAPOLATION does not specify what would be the interventions on the NEC that would allow it to sustain such productivity growth rates, but speculates on possible factors that might do so.

- 2. NECMP: The NECMP is an Amtrak-led multi-stakeholder initiative, a \$52-billion expenditure plan from 2010 to 2030 to bring existing infrastructure to a state of good repair, increase capacity to accommodate expected growth of commuters, intercity travelers, and freight trains, and modestly improve trip time between cities along the corridor (see Section 2.5.2.1: The NEC Master Plan). Our analysis of the NECMP is predominantly qualitative due to lack of operating cost, ridership, and revenue data.
- 3. NEC VISION: The NEC VISION is *Amtrak's Vision for HSR in the NEC*, a \$150-billion stair-step phasing investment strategy with two sequenced programs: the NEC Upgrade Program (NEC-UP) and the NEC Next Generation HSR (NextGen HSR) (See Section 2.5.2.2: Amtrak's Vision for HSR in the Northeast Corridor). Our analysis of the NEC VISION is quantitative.

It is worth noting that the NEC VISION is not only more ambitious than the NECMP in terms of the time frame (extending beyond 2030 to 2040) and total investments, but also different in its path towards 2030. The central difference is that the NECMP mainly focuses on bringing the NEC to a state of good repair, while the NEC VISION does seek to significantly improve HSR services.

### 4.3. First Case: EXTRAPOLATION 2012-2030

The first case of analysis is our 20-year projection of the trends for the four distinct SFP metrics analyzed in Chapter 3: ridership SFP, revenue SFP, revenue passenger-miles SFP, and available seat-miles SFP—as explained earlier (see Section 3.2: Data, Scope, and Method of Analysis), productivity on the demand side is measured by the first three metrics, whereas productivity on the supply side is only measured by available seat-miles SFP.

Chapter 3 concluded that after some oscillating productivity changes in FY 2002-2010, the productivity of the NEC was boosted in the last three years (FY 2010-2012). A simple extrapolation of these findings combined with the recent market success of the NEC would imply that productivity, and perhaps profitability, could keep growing in the next two decades.

Just to illustrate, ridership SFP, revenue SFP, revenue passenger-miles (RPM) SFP, and available seat-miles (ASM) SFP grew at 12%, 15%, 12% and 10% per year, respectively, in the past three years; and at a yearly average of 0.9%, 2.8%, 2.5%, and 0.4%, respectively, in the past seven

years (see Section 3.3.2.1: Usage and Capacity). Taking the latter values as a reasonable estimate of long-term productivity growth—given that the former values would be very hard to sustain for long periods of time and would ignore possible oscillations in productivity growth— then, projected demand-side productivity would increase ~50% by 2030 (as measured by revenue SFP and revenue passenger-miles SFP) and supply-side productivity would increase 10% by 2030 (as measured by available seat-miles SFP). Ridership SFP, another metric of demand-side productivity, would not greatly increase (~20% by 2030), implying that the NEC would not simply accommodate new riders but also many new riders on longer-distance trips.

Figure 4.1 shows the extrapolated year-to-year productivity growth for 2013-2030, and Figure 4.2 shows the corresponding cumulative SFP growth (taking 2013 as the base year). The past (actual) values of productivity growth (FY 2005-2012) are shown for reference in both figures.



Figure 4.1- EXTRAPOLATION, Year-to-Year SFP Growth FY 2005-2012 and 2013-2030



Figure 4.2- EXTRAPOLATION, Cumulative SFP Growth FY 2005-2012 and 2013-2030

While we ignore which specific drivers would sustain such productivity growth rates, we can certainly speculate on possible factors that could do so without exceeding physical limits of inputs (e.g. load factors cannot be more than 100%, train arrivals/departures must have a reasonable headway, there are capacity constraints in the corridor). For example, exploiting the economies of scale in the corridor (see Section 3.3.2: SFP Analysis) or having rising travel demand due to population growth and airport and highway congestion might help increase productivity in the NEC (see Section 2.2: The Northeast Megaregion). Additional factors and interactions which may drive productivity change in the NEC are Transport Funding and Investment, Federal and State Fiscal Policies, Taxes, Private and Foreign Investment, and Environmental Policies (see Sussman et al. 2012a, Chapter 1: CLIOS Representation of the NEC, and Chapter 5: Discussion of high-impact paths and their implications on the bundles of strategic alternatives).

Finally, we emphasize that Amtrak or the FRA does not claim to sustain these productivity growth rates, and that the analysis presented thus far serves only as a hypothetical case of analysis developed by the author.

#### 4.4. Second Case: NECMP 2010-2030

The second case of analysis corresponds to an examination of the prospects described in the NECMP of 2010. This case of analysis is more valuable than the previous one (EXTRAPOLATION), since it analyzes the prospective plans for the future rather than simply an extrapolation of the past. However, the analysis is restricted to a qualitative assessment of productivity, due to lack of operating cost, ridership, and revenue data that would have permitted the calculation of productivity metrics.

If the recent trends found in Chapter 3 continue and the NECMP (as described by Amtrak in 2010) is indeed implemented, then the following is plausible:

On the supply side, available seat-miles productivity is likely to increase for two reasons. First, the introduction of additional Acela coach cars to lengthen the existing train sets by FY 2014 will exploit the large economies of scale of the corridor. Second, the NECMP contemplates a number of capital expenditures to increase railroad capacity (i.e., the numerator of the productivity metric) and reduce operating costs (i.e., the denominator of the productivity metric): upgrades to tunnels, bridges, tracks, terminals, signals, catenaries, and other facilities.

On the demand side, we speculate that revenue passenger-miles productivity would increase if the current trend of more riders on longer and longer train trips on the NEC persists (see Section 3.3.2: SFP Analysis).

The NECMP assumed 76% growth in NEC ridership and revenue (to 23 million annual riders and \$1.84 billion revenue) and 36% growth in daily trains (to 210 trains) by 2030. This might increase the gap between revenue productivity and available seat-miles productivity—as utilization increases much more than capacity—, potentially leading to higher profitability given the profitable incremental ridership of the NEC (see Section 2.3.1.2: Revenue).

In the past, express services (Acela and Metroliner before 2006, Acela alone after 2006) showed productivity growth that was volatile. Thus, the anticipated good economic conditions and population growth in the NECMP would be promising for realization of corridor opportunities for HSR. However, the NECMP does not expand express services as much as regional services, which have less volatile productivity growth (see Section

3.3.2: SFP Analysis). This might be so because an expansion of express services would require large capital investments that the NECMP did not contemplate, although the market potential could be there. This investment decision would limit the potential for profitability in the NEC.

The recent reorganization of Amtrak's business lines and the additional improvements in management practices might increase the ability to effectively implement and operate enhanced HSR services. For example, the new six business lines are focused around key market segments, giving special attention to two critical aspects of the NEC, operations and infrastructure (Gardner 2013):

- 1) NEC Operations
- 2) NEC Infrastructure and Investment Development
- 3) Long-Distance Services
- 4) State-Supported Services
- 5) Commuter Services
- 6) Commercial Asset Development

Given that the ability to operate HSR is as important to productivity growth as the state of the regional economy (see Section 3.4: Chapter Conclusion), a successful management reorganization within Amtrak and other stakeholders of the NEC might lead to improved productivity, reduced risk, and, possibly, profitability.

All this is *ceteris paribus*, i.e., no major interventions beyond the incremental upgrades that would bring the NEC to a state of good repair and accommodate some capacity growth (as planned by the NECMP). The few anticipated targeted capital investments of the NECMP would not achieve substantial trip time reductions or an international-quality HSR service.

The NECMP is, in brief, a conservative case, not overly ambitious, but one that suggests future productivity increments that unfortunately could not be quantified due to lack of data. Those increments, however, ignore the uncertainty related to political support, external events, additional investments or management changes that might affect the NEC performance over the next two decades.

### 4.5. Third Case: NEC VISION 2013-2040

The third case of analysis corresponds to an examination of the NEC VISION developed by Amtrak in 2010 and 2012, with the structure of productivity analysis developed by the author in Chapter 3. This structure is applicable to many routes or sub-networks of Amtrak, and even to the future performance of the NEC. However, the (by definition) absence of real future data obliges us instead to study a projection of a possible future of the NEC, which requires credible data that will enable a quantitative analysis of productivity.

So, in short, this section uses the structure of analysis developed in Chapter 3 to analyze projected future data generated through examination of the vision for HSR in the NEC laid out by Amtrak. Then, it uses international comparisons and a sensitivity analysis to gain more confidence on the results.

### 4.5.1. Data for the NEC VISION 2013-2040

The foundation for data generation for the prospective future is "*The Amtrak Vision for the Northeast Corridor: 2012 Update Report*" (Amtrak 2012). Unfortunately, this documentation has only partial data presented in graphs and figures, not in tables, and the process by which Amtrak made its forecasts is not public. Instead, the data and assumptions of the forecasts are contained in the "NEC Business and Financial Plan", a confidential document that has not been disclosed at this time, but which we hope to have access to in the future; it can then be used to improve this analysis.

### 4.5.1.1. Output and Input Data

Ideally, the same outputs and inputs used in Chapter 3—which were taken from historical disaggregate data—should be used in this analysis. However, data constraints only permitted the treatment of a reduced number of projected outputs and inputs. Still, the fact that similar outputs and inputs are used throughout this document permits a comparison of future productivity levels with those of the past.

**OUTPUTS:** The two outputs are *revenue* and *ridership*. Here, *revenue passenger-miles* and *available seat-miles* were excluded, so there are only outputs related to the demand side, and not to the supply side, in this analysis.

**INPUTS:** Exactly as in Chapter 3, the sole input is *total operating costs* (operation and maintenance), excluding capital expenditures, depreciation, and interest.

The output and input data were digitized from figures presented in Amtrak (2012). In the case of operating cost data, values for Total Net Operating Revenue were directly digitized from the graphs and used in the calculation of Total Operating Costs as:

[Total Operating Costs] = [Total Revenue] – [Total Net Operating Revenue]<sup>2</sup>

Our analysis also required ridership and revenue data on 1-year intervals, which were not directly available from Amtrak and had to be reconstructed. The 1-year-interval estimates were linearly interpolated from the forecasted values given at each of the milestone years of the NEC VISION: 2015, 2020, 2025, 2030, and 2040 (see Appendix D: Baseline Figures NEC VISION).

# 4.5.1.2. Scope and Limitations

Beyond the data constraints that limited the number of inputs and outputs, there are other aspects that influence the analysis and are worth pointing out explicitly.

Data constraints require scoping the analysis to an overall NEC level. The NEC VISION includes substantial route changes for which disaggregate data are not available. For example, under the NEC VISION, the Acela Express is to expire and to be replaced by a range of HSR services by 2030. Fortunately, the only routes considered in the NEC VISION are future regional and HSR services, which would correspond to the evolution of the regional and express routes analyzed earlier (see Section 3.2.3: Route Definitions). In addition, the operating and maintenance costs are available at the NEC level, not at the route level, and at this point there is not a way to reasonably allocate them. This does allows contrasting past productivity with future productivity, but only at the NEC level.

Revenue, ridership, and operating cost forecasts from Amtrak (2012) are assumed to be accurate (while, of course, recognizing that "the forecast is always wrong", be it by Amtrak or by anyone else). Also, the stair-step milestones are assumed to be implemented at the specified times. Thus, the uncertainty of the forecasts is ignored. Given the inherent inaccuracy of travel demand

 $<sup>^{2}</sup>$  Amtrak did not report its projected operating costs directly. Instead, total revenue and total net operating revenue were reported. Total net operating revenue equals total revenue less operating costs. Thus, the author rearranged the equation to calculate the total operating costs.

projections and that large infrastructure projects usually have cost and schedule overruns, ignoring uncertainty is unrealistic, but unavoidable.

To the best of the author's knowledge, current forecasts omit technological or managerial improvements that might change productivity (see Section 1.6.5: Factors that Influence Productivity in Passenger Rail Transportation). It is possible, though, that such improvements were considered in Amtrak's forecasts, but, since their assumptions are not public, it is impossible to tell one way or the other.

Large, unexpected regional events that might change productivity are not explicitly considered in Amtrak's forecasts. As shown in the past, performance on the NEC is quite sensitive to external events, so these are important (see Section 3.3.2: SFP Analysis). The only major single events included in Amtrak's projections are the capacity enhancements currently planned.

Thus, eventual access to the confidential information contained in Amtrak's NEC Business and Financial Plan would allow us to retrieve the projected data directly, instead of having to digitize it, and even to include projected outputs that at this point are excluded: available seat-miles and revenue passenger-miles. In addition, disaggregate data at the specific route- or O-D-level, or further information on the way in which Amtrak made the forecasts, would allow us to expand the analysis of the future productivity of the NEC, and to compare more directly future and past productivity. We hope to do this work in the future, once data become available to us.

### 4.5.1.3. Characterization of the NEC VISION

Figure 4.3 shows the characterization of the outputs and inputs of the NEC VISION for the period 2013-2040, after following the procedure just described. The evolution of the outputs (ridership and revenue) and the input (operating cost) is overlapped with the two programs and six milestone stages of the NEC VISION. The figure has two vertical axes: the left axis shows revenue and operating costs in \$ billions and the right axis shows ridership (dashed line) in million passengers. Appendix C: Future Data NEC VISION 2013-2040 includes the data tables that correspond to this case of analysis. Appendix D: Baseline Figures NEC VISION shows the original figures from which these data were retrieved and reconstructed.





As described earlier (see Section 2.5.2.2: Amtrak's Vision for HSR in the Northeast Corridor), the two programs and six milestone stages of the NEC VISION encompass:

#### NEC Upgrade Program (NEC-UP), 2015-2025:

Stage 1) 40% additional capacity of the Acela Express achieved through additional passenger cars on existing train sets by 2015

Stage 2) Doubling of the HSR frequencies from New York to Washington by 2020

Stages 3) & 4) Improved and expanded service on the entire alignment, thanks to the Gateway program, track improvements, and additional HSR trains by 2025

### NEC Next Generation HSR (NextGen), 2030-2040:

Stage 5) Completion of the New York-Washington NextGen HSR segment by 2030

Stage 6) Full establishment of the Boston-Washington NextGen HSR service by 2040

At this final stage, the trip time from New York to either Boston or Washington will be reduced to 94 min (Amtrak 2012). (Perhaps this was designed this way for marketing purposes, or just because the length of the alignments and the average operating speeds are projected to be the same.)

### 4.5.2. SFP Analysis of the NEC VISION

The previous section carefully scanned the data that allow an original productivity analysis of the prospects described by Amtrak. Similarly as before (see Section 3.2.4: Method of Analysis), a SFP Törnqvist trans-log index formula for a single-output single-input process is used in this analysis. Again, year-to-year variations are compounded to obtain cumulative results, in this case, though, taking 2013 as the base year. Here, however, there is no need to deflate monetized outputs and inputs, since forecasts are in 2012 dollars.

Two distinct SFP metrics are analyzed: ridership SFP and revenue SFP, both with respect to operating costs. These relate to the demand side of rail transportation, not to the supply side, thus constraining the analysis. For simplicity, the words "operating costs" are removed from the productivity label, as those are the sole input of every productivity metric. Again, revenue passenger-miles SFP and available seat-miles SFP, a supply-side metric, could not be computed due to lack of data.

### 4.5.2.1. Projected SFP

Figure 4.4 shows the predicted year-to-year ridership SFP and revenue SFP growth for the NEC in 2013-2040, and Figure 4.5 shows the corresponding cumulative productivity growth. For the sake of comparison, both figures are shown overlapped with the actual evolution of productivity in FY 2002-2012 (see Chapter 3) and the programs and milestones stages of the NEC VISION.



Figure 4.4- NEC VISION, Year-to-Year SFP Growth FY 2002-2012 and 2013-2040



Figure 4.5- NEC VISION, Cumulative SFP Growth FY 2002-2012 and 2013-2040

In general terms, the NEC would become 20–40% more productive (on the demand side) by 2040 with respect to 2013. The expected yearly average growth in ridership and revenue SFP (0.7% and 1.3%, respectively) would be within the ranges of what the NEC achieved in the past (~0.5%–3.0%), though perhaps on the low side (see Section 3.3.2: SFP Analysis). But, again, the productivity increments would be highly variable and most likely occur in stages.

Perhaps counterintuitively, not every stage of the NEC VISION would increase ridership and revenue SFP. Productivity would go down after stage 1, with the additional capacity of the Acela, slightly increase after stage 2, with the higher frequency of HSR service between New York and Washington, boost after stages 3 and 4, with completion of the Gateway project and several capital upgrades, and will improve anew in the final stages, with the introduction of the NEC Next Generation (NextGen) HSR in the entire alignment.

The most significant productivity changes are the drop after 2015 and a substantial leap after 2024 (with a slight recovery from 2020-2024), which would cancel out to a zero net SFP growth in that decade. These peak changes, however, are within the ranges of productivity gains or losses that the NEC showed in the past:  $\pm 13-18\%$  on peak years (compares with Table 3.4).

### 4.5.2.2. Drivers of Future Productivity

We suggest the reasons for the fluctuations in productivity growth are pure operational and market effects, excluding major (unknown) external events or managerial changes.

For example, the increased HSR capacity in 2015–2020 would decrease ridership SFP and revenue SFP, as the new trains are immediately more expensive to operate per rider, while the market would take some time to respond to the stimulus of new services (we assume that Amtrak accounted for this in the forecasts).

The ever-increasing gap between revenue SFP and ridership SFP with respect to operating costs after 2020 may imply that Amtrak assumed that travelers pay higher fares, possibly due to a combination of effects. On one hand, we speculate that new HSR services are accompanied by a new fare structure and mix of business and leisure travelers embedded in Amtrak's projections. Again, it is currently unknown by the author if Amtrak used a selective or an across-the-board fare increase for the services in the revenue forecasts, or a fare increase at all. On the other hand, the trend of people traveling longer distances on the NEC could continue, thus increasing the average revenue per rider (see Section 3.3.2: SFP Analysis). At this point, the author cannot think of an alternative explanation of why this could have happened, but as pointed earlier (see Section 4.5.1.2: Scope and Limitations), more disaggregate data (O-D level or fare structure) could help explain these forecasted results.

A key stage in productivity growth is the Gateway Program to be completed in 2025, which would make it much easier for travelers to go through New York (see Section 2.5.2.2: Amtrak's Vision for HSR in the Northeast Corridor). Efforts to accelerate this project should be included in any reasonable strategy. We note that this stage would bring similar productivity increments as the surge in ridership of the past three years. So, from a productivity perspective, market behavior must be considered in addition to capital investments.

## 4.5.3. Comments on Amtrak's Projections

#### 4.5.3.1. Competition

Naturally, it is unknown what the competition (mainly the airline industry) will do, or if Amtrak anticipated the reaction of the competition in making its forecasts.

For example, there could be (fierce) competition. Air lobbyists could push Congress to block rail investments or lobby for airport expansions. Airlines could also improve their services or lower their fares in the NEC. On the other hand, the large air/rail market share of Amtrak in the NEC may have reduced the leverage the airline industry can exert on the NEC (see Section 2.4.3: NEC Performance). Governmental funding of HSR could be favored over air infrastructure funding, as energy and  $CO_2$  emission savings of HSR could increase substantially if combined with more stringent environmental dictates or cleaner energy policies (Clewlow 2012).

There is also the possibility of cooperation between airlines and HSR, but the success of such an alliance depends on unique challenges to be addressed on the NEC, e.g., complex network economics and financing/funding for air/rail intermodal connections (Clewlow 2012).

Whether competition or cooperation would dominate the relationship between airlines and HSR is unknown. At this point, the NEC VISION opens the possibility for air/HSR intermodal connections, but do not provide details on how these will be developed (if at all). For example, the NEC VISION does consider intermodal stops at the Baltimore, Philadelphia, and Newark airports, but not on JFK, LaGuardia, Logan, Reagan or Dulles airports (Amtrak 2012). Likewise, the NEC FUTURE (which was not a case of analysis in this chapter) states that "these elements [airport access solutions] will be analyzed as overlays on the alternatives [of rail investment in the NEC]", but no specific information is currently provided (NEC FUTURE 2013b).

From the author's perspective, the relationship between air and rail is vital, not only to the success of HSR but to the mobility within the NEC as a whole. However, the current planning process of the NEC VISION and the NEC FUTURE lacks involvement of the FAA and other stakeholders of the airline industry.

# 4.5.3.2. Underestimation of Projections

Once the NextGen HSR is introduced in 2030 (and thus the substantial trip time reductions begin to be realized) productivity of the NEC would not go up by a significant amount. When contrasted with the recent market success of the NEC (see Section 2.4.3: NEC Performance) and the fact that the introduction of HSR in some nations has "resulted in substantial decline in air traffic on short-haul routes" (Clewlow 2012), there is a possibility that current projections of ridership and revenue are underestimated. For instance, HSR amenities and add-ons (e.g., food services, baggage fees, Wi-Fi charges, or preferred seat assignments) could further increase revenue. Also, an improved level of service might be accompanied by a substantial increase in travel demand. Thus, given the characteristics of the NEC and the introductory effect of HSR, travel demand and revenue could be even higher than anticipated.

### 4.5.3.3. HSR International Comparisons

Thus far, we have counted on Amtrak's projections to make our productivity estimates in the NEC. But, often, projections of ridership are overestimated while projections of costs are underestimated when compared with reality (Flyvbjerg et al. 2002). Thus, a benchmark of international experiences may suggest what could actually happen in the first years of operation of a new HSR in the NEC.

Table 4.1 summarizes the introduction of new HSR in corridors with similar physical characteristics to the NEC in Japan, France, South Korea, and Taiwan, and compares them with the projected introduction of the NextGen HSR in the Washington-New York segment by 2030. The international experiences are the first HSR implementation in such corridors, which have now been followed by (in some cases, substantial) extensions of the lines. For this reason as well, the comparison of the NEC is done in the Washington-New York alignment, which is the first segment planned to operate from 2030-2040, until the New York-Boston NextGen HSR alignment is finally introduced in 2040.

In all four international cases, the entrance of HSR significantly affected air traffic and other transportation modes. In three out of four cases, HSR presented considerable ridership increments above the forecasts made before the services were implemented. In fact, HSR services usually enjoy spectacular growth in the initial years, which later declines as the market becomes more mature (De Rus and Campos 2009). For example, revenue passenger-miles

89

increased sevenfold in the first decade of HSR operations in Japan (Sakamoto 2012); ridership doubled in a decade in France (Vickerman 1997). However, in the case of Taiwan, HSR ridership was less than half of the forecasted, attributed to poor inter-modal connections, international economic conditions, and marketing (Cheng 2010).

Table 4.1- Internatio	nal Comparisons of HSR Lines (Ac	lapted from Sakamoto 2	2012, Thompson and Ta	anaka 2011 Cheng
2010, and Vickerma	n 1997)	fanne 🖷 - Hall an Frink fan de Stal fan de Frink fan Stal fan de Frink fan de Stal fan de Frink fan	u de la fini d'en u de celation de 🔎 de record de finite en la finite de la	

HSR Line	Construct ion Time (years)	Start of Ops.	Initial Length (mi)	Actual Impacts on Traffic	Actual v. Forecast
Japan (Tokyo- Osaka)	5	1964	320	Traffic was diverted 23% from air, 16% from cars and buses and 6% induced demand (Cheng 2010)	Demand was higher than forecasted. In the first decade, RPM increased sevenfold, but then flattened (Sakamoto 2012)
France (Lyon-Paris)	7	1981	260	Most of the diverted passengers shifted from air. 49% induced demand (Cheng 2010, Vickerman 1997)	Demand was higher than forecasted. Total rail passengers in the corridor doubled in a decade (Vickerman 1997)
South Korea (Seoul- Pusan)	12	2004	206	Air traffic dropped 20- 30%. Traffic on short distances (<100 km) increased ~20% (Cheng 2010)	Demand was higher than forecasted (Thompson and Tanaka 2011)
Taiwan (Taipei- Kaohsiung)	9	2007	215	Air transportation almost exited the market. Passengers were diverted from conventional rail and buses. 8% induced demand, but still low ridership (Cheng 2010)	Demand was 50% of forecast (Cheng 2010)
US	15	2030	225	N/A	Additional 6 million
(Washington	(projected	(projec			annual riders
-NYC)		ted)			(+30%) (projected)

Currently, the NEC VISION forecasts 30% more ridership on the NEC after the first NextGen HSR segment is implemented in 2030 (with respect to 2025), and 66% more ridership once the full alignment is operating in 2040 (with respect to 2030). For the sake of comparison, ridership

on the NEC-Spine trains grew 36% from FY 2003-2012, with only limited capacity enhancements (see Section 2.4.3: NEC Performance).

Thus, the international comparisons make two points. First, Amtrak's projections are within the range of what the international benchmark of *actual* performance suggests (and within what Amtrak has achieved in the past decade). Second, Amtrak's projections may be a bit low because the actual HSR ridership was higher than forecasted in three out of four international cases; and, in the case where it did poorly, it was largely due to poor planning and management. Therefore, even though the SFP analysis of the future of the NEC is done with projections, those are consistent with what international railroads experienced in the past, a fact that raises our confidence that Amtrak's projections are realistic. Moreover, our confidence is bolstered further because not only do the projections seem to be on the low side, but also the fact that in three out of four cases the projections were low with respect to reality suggests that the ridership in the NEC might be higher than forecasted. This international benchmark also reveals that HSR construction times were faster than those proposed in the NEC VISION. This could possibly motivate Amtrak to revise current projections of ridership and revenue, and perhaps even to accelerate or modify the vision, or, on the other hand, to warn them that a careful implementation of HSR infrastructure and service is necessary to secure ridership.

### 4.5.3.4. **Risks and Opportunities**

In short, the lumpy productivity changes that we estimated from the NEC VISION would be due to stages of the implementation strategy and to market response, just as expected. However, the international benchmark and the past decade of the NEC suggest the possibility that Amtrak's projections of ridership and revenue are underestimated.

From a productivity perspective, we think there are some risks with going forward in this way with the NEC VISION. As the analysis revealed, productivity would go down initially. Since the NEC is volatile with respect to external events, an unexpected adverse major event could endanger the future development of HSR. Amtrak's critics might use this fact to question its ability to implement the strategy. The current optimism might fade out and jeopardize the long-term plans.

Also, productivity, especially on the supply side, is sensitive to management practices. (Naturally, availability of data on available seat-miles would permit the calculation of a supply-

side productivity metric –available seat-miles SFP— which, lacking the data, we excluded from our analysis). The plan to improve management is not explicitly mentioned in the NEC VISION. Improved management practices within Amtrak and coordination with other major travel modes may reveal a greater potential for productivity improvements.

### 4.5.4. Sensitivity Analyses of the NEC VISION

The previous productivity analysis of the NEC VISION assumed, on one hand, that Amtrak's forecasts were accurate and, on the other hand, that we had a reasonable process for reconstructing missing data. Thus, the following sensitivity analyses test these two aspects: data generation and uncertainty of forecasts.

## 4.5.4.1. Sensitivity to Assumptions Regarding Data Generation

The missing data for the base case of analysis (NEC VISION) were generated based on some key assumptions. A sensitivity analysis is now performed to test if the results (or at least the general behavior) persist after a change of assumptions.

Table 4.2 lists the assumptions regarding the generation of missing data points in both the base case and an alternative case of analysis of the NEC VISION.

Category	Base Case (NEC VISION)	Alternative Case	
Ridership forecast on 1-year intervals	Linear interpolation from ridership estimates given at each milestone year of the NEC VISION (2015, 2020, 2025, 2030 and 2040)	Linear growth of ridership as that experienced in the past five years in the NEC (about 500,000 passengers/year)	
<b>Revenue forecast on</b>	Linear interpolation from	Linear correlation with ridership, as	
1-year intervals	revenue estimates given at each	determined by a regression of past	
	milestone year of the NEC	ridership and revenue data on the	
	VISION (2015, 2020, 2025,	NEC	
	2030 and 2040)		
Operating costs	[Total Operating Costs] =		
	[Total Revenue] – [Total Net Operating Revenue]		

#### Table 4.2- Assumptions for Sensitivity Test

To generate missing ridership and revenue data in 1-year intervals (as required by the analysis), estimates were now not linearly interpolated by joining the data points of the milestone years of the NEC VISION as before (see Section 4.5.1: Data for the NEC VISION 2013-2040). Instead, given the lumpy upgrades of the six stair-stage milestones, we assume sudden jumps in ridership,

corresponding to the increase in train capacity in years 2015, 2020, 2025, 2030, and 2040, followed by a linear growth of ridership, similar to that observed in the past five years in the NEC (about half a million passengers per year in FY 2008-2012, in the absence of major external events).

To estimate revenue at 1-year intervals, a correlation with ridership is assumed. This was reasonable, as the author's analysis of the base case projections from Amtrak discovered a good linear correlation between the two variables.

Finally, Total Operating Costs are calculated exactly as before, as:

[Total Operating Costs] = [Total Revenue] – [Total Net Operating Revenue].

Accordingly, Figure 4.6 shows an alternative characterization of the NEC VISION. Again, revenue and operating cost are plotted against the left vertical axis, and ridership is plotted against the right vertical axis. In contrast to Figure 4.3, the alternative representation displays surges in ridership and revenue after the completion of a new stage of the NEC VISION.



Figure 4.6- a) Alternative Characterization of the NEC VISION 2013-2040 b) Base Case Characterization



Similarly, Figure 4.7 shows a) the predicted year-to-year SFP growth for the alternative characterization of the NEC VISION in 2013-2040, and b) the results from the base case characterization (Figure 4.4). Again, the (identical) productivity changes calculated for FY 2002-2012 are shown for reference in both graphs (see Chapter 3: Past Productivity in the NEC).





b)



Finally, Figure 4.8 shows the predicted cumulative SFP growth for the alternative characterization of the NEC VISION in 2013-2040, with the values from the base case characterization presented in dotted lines (compare with Figure 4.5). Again, the productivity changes calculated for FY 2002-2012 are shown for reference (see Chapter 3: Past Productivity in the NEC).





When compared to the base case of analysis, perhaps there are more dramatic changes in productivity, but the overall behavior described earlier prevails. In this case, however, the gap between revenue SFP with respect to operating costs and ridership SFP with respect to operating costs is even greater than before; this is evidence that indeed Amtrak is assuming a change in fares (details of which remain unknown to the author, but that will be revealed once we gain access to the NEC Business and Financial Plan).

Thus, we gain confidence that results are robust to changes in key assumptions, and the base case analysis is valid (see Section 4.5.2: SFP Analysis of the NEC VISION).

# 4.5.4.2. Sensitivity to Uncertainty of Forecasts

As shown earlier, Amtrak's projections of ridership and revenue might be overestimated or underestimated (see Section 4.5.3.2: Underestimation of Projections; and Section 4.5.3.3: HSR

International Comparisons). Thus, without giving explicit reasons why the forecasts may be inaccurate, we test the robustness of the results by permitting the revenue and ridership estimates to go up down by certain amounts.

Table 4.3 shows the yearly average and the cumulative (with 2013 as the base case) ridership and revenue SFP growth for different time periods in the past, and under some variations of ridership and revenue estimates for the future of the NEC. In the past decade, ridership SFP and revenue SFP grew between ~1–3% per year (see Section 3.3.2.1: Usage and Capacity). The analysis of the base case of the NEC VISION predicted a yearly average ridership and revenue growth in 2013-2040 of 0.7% and 1.3%, respectively. If ridership and revenue estimates are 80% more than what is currently forecasted by Amtrak, then yearly average ridership SFP growth may attain levels that are comparable to what the NEC experienced in the past decade. Similarly, a 25% increase in estimates will achieve the yearly average revenue SFP growth rate that the NEC experienced in the last ten years. In turn, a 20% fall below the currently projected ridership and revenue will return a net zero ridership SFP growth, and a 34% fall will achieve the net zero in terms of revenue SFP.

	Yearly Average Ridership SFP Growth	Cumulative Ridership SFP (2013 index = 100)	Yearly Average Revenue SFP Growth	Cumulative Revenue SFP (2013 index = 100)
FY 2002 (to 2012)	2.4%	78	2.0%	82
FY 2005 (to 2012)	0.9%	94	2.8%	82
	n	201.	3-2040	
NEC VISION	0.7%	120	1.3%	142
+80%	2.4%	190	3.0%	224
+25%	1.4%	144	2.0%	170
-20%	0.0%	100	0.6%	118
-34%	-0.7%	85	0.0%	100

Table 4.3- Sensitivity Analysis of Ridership and Revenue Forecasts for the NEC VISION

Of course, these calculations omit fluctuations in operating costs, which will vary depending on the ridership. However, since marginal costs are low, this is an assumption that would not affect the analysis for small variations of the ridership estimates. In the case of large increments, however, operating costs would go up significantly, which might in turn decrease the productivity estimates, bringing them back to levels previously attained.

Thus, the productivity results are somewhat robust to variations of the forecasts. Significant variations would not bring the SFP estimates out of the range of what the NEC has achieved in the past. If Amtrak's projections of ridership and revenue are indeed on the low side, then productivity rates could surge to high levels, which are still credible. In turn, lower demand, even by 20%, would bring the productivity of the corridor to levels that are not likely (and desirable). This raises our confidence in the analysis of the projections and also supports our belief that Amtrak's projections are on the low side.

#### 4.6. Chapter Conclusion

This chapter used three cases of analyses to infer the future productivity of the NEC based on best publicly available data, which we plan to update.

The first case of analysis, our simple EXTRAPOLATION of recent market and productivity trends in the NEC, would optimistically (and perhaps naively) anticipate high productivity growth rates. However, this ignores future interventions that might take place on the corridor, and neither Amtrak nor the author claims that these performance rates are to be obtained. So, the value of the EXTRAPOLATION was in determining a ballpark estimate of what the productivity of in the future could be, and in suggesting drivers of productivity change that could help sustain such growth rates.

The second case of analysis, the qualitative analysis of the NECMP of 2010, revealed that while higher productivity levels could be expected, they are limited by the conservative interventions presented by the NECMP. Although the author is optimistic about the potential achievement of the prospects described in the NECMP, such interventions will also prevent the NEC from truly deploying an international-quality HSR service. As implied by the analysis, there might be a greater potential for increased productivity and services in the NEC that the NECMP is not exploiting.

Greater expectations for the corridor were in fact considered in the quantitative analysis of the NEC VISION of 2012. The analysis showed that the performance on the NEC is still sensitive to many factors, and that perhaps Amtrak's vision is both risky and in some ways a bit unambitious. On one hand, the projected productivity levels are volatile and especially low at the beginning of the interventions. On the other hand, the projected cumulative productivity growth is low in comparison to the growth in the past decade.

This reveals the need for an improved vision that both reduces risk and takes advantage of the opportunities of the NEC. In fact, international comparisons of HSR in corridors similar to the NEC suggest that Amtrak's projections of ridership and revenue are reasonable, but might be on the low side. An improved level of service in the NEC could attract more riders and bring additional revenue. Air/rail cooperation and competition could be key in shaping a more comprehensive vision for HSR in the NEC.

99

The results of the analysis in this chapter raised our confidence in the structure of analysis developed in Chapter 3. On one hand, the expected SFP growth was within the ranges of what the NEC has shown in the past, both in the cumulative and year-to-year values. The sensitivity analysis also revealed that results are robust to changes in key assumptions regarding data generation and uncertainty of forecasts. On the other hand, the interventions and market effects embedded in Amtrak's forecasts could reasonably explain future productivity growth. However, we think they ignored external factors, managerial changes, and unplanned interventions that might affect productivity in the future. Finally, comparisons of results across the cases of analyses were difficult, and there were tradeoffs between qualitative and quantitative analyses: The qualitative analysis allowed us to infer the behavior of several SFP metrics, but did not provide specific values. In contrast, the quantitative analysis gave specific results, but restricted the analysis due to lack of data to just two SFP metrics on the demand side of rail transportation: revenue SFP and ridership SFP, both with respect to operating cost.

Naturally, there is room for major improvements in the analysis. The introduction of available seat-miles SFP or any other metric on the supply side will allow us not only to understand the supply side of the services, but also to understand the implications for profitability and further growth when compared to the demand side. Additional cases of analysis could be included, e.g., cases with substantial ridership changes, or cases based upon the preliminary alternatives report of the NEC FUTURE. Another improvement would be the development of a way to allocate operating costs at the route level, which would permit a comparison of performance between regional and express services, and perhaps the refinement of a strategy to mix those services. Finally, more disaggregate data at the specific route-level or O-D-level, or additional information on the way in which Amtrak made the forecasts (which might be available in the "NEC Business and Financial Plan"), would allow a direct comparison between future and past productivity, and expand the analysis of the future productivity of the NEC.

The next chapter summarizes key research findings and contributions, and reflects on the recommended ways to move forward for HSR implementation on the NEC.

#### 4.7. Chapter References

Amtrak (2010). A Vision for High-Speed Rail in the Northeast Corridor.

Amtrak (2012). The Amtrak Vision for the Northeast Corridor: 2012 Update Report.

Cheng, Y. (2010). *High-Speed Rail in Taiwan: New Experience and Issues for Future Development*. Transport Policy, Vol. 17, No. 2, pp. 51-63.

Clewlow, R. R. L. (2012). *The Climate Impacts of High-Speed Rail and Air Transportation:* A Global Comparative Analysis (Ph.D., Massachusetts Institute of Technology, Engineering Systems Division).

De Rus, G., Campos, J. (2009). Some Stylized Facts about High-Speed Rail: A Review of HSR Experiences around the World. Transport Policy 16, 2009

Flyvbjerg, B., Holm, M. S., & Buhl, S. (2002). Underestimating Costs in Public Works Projects: Error or Lie? Journal of the American Planning Association, 68(3), 279-295.

Gardner, S. (2013). Creating Capacity for Growth–New Approaches for Managing the Future of the NEC. TRB 2013 Annual Meeting: Socioeconomic and Financial Aspects of Intercity Passenger Rail Subcommittee.

NEC Future (2013a). *NEC FUTURE – Passenger Rail Corridor Investment Plan*. Accessed on March 2013 <u>www.necfuture.com</u>

NEC Future (2013b). NEC FUTURE – Passenger Rail Corridor Investment Plan. Preliminary Alternatives Report.

Sakamoto, R., & Massachusetts Institute of Technology. Dept. of Civil and Environmental Engineering. (2012). *High Speed Railway Productivity: How Does Organizational Restructuring Contribute to HSR Productivity Growth?* (S.M. in Transportation, Massachusetts Institute of Technology, Dept. of Civil and Environmental Engineering).

Sussman, J., Archila, A.F., Carlson S.J., Peña-Alcaraz, M., Stein N. (2012a). *Transportation in the Northeast Corridor of the U.S.: A Multimodal and Intermodal Conceptual Framework*. web.mit.edu/hsr-group/documents/jiti.pdf

The NEC Master Plan Working Group (MPWG) (2010). The Northeast Corridor Infrastructure Master Plan.

Thompson, L., Tanaka, Y. (2011). *High Speed Rail Passenger Service: World Experience and U.S. Applications*. TGA Transportation Concepts

Vickerman, R. (1997). High-Speed Rail in Europe: Experience and Issues for Future Development. The Annals of Regional Science No. 2, 1997

.

## 5. Summary and Conclusion

This chapter summarizes key research findings and contributions, reflects on the recommended ways to move forward for HSR implementation on the NEC, and suggests potential areas of future research.

#### 5.1. Summary

This thesis used productivity analysis to evaluate the past performance of the NEC in FY 2002-2012 with historical disaggregate data. Then, it made inferences about the future performance of the prospects of HSR in the NEC by 2040. Since the NEC network structure and socioeconomic characteristics make it a natural fit for world-class HSR, our goal was to know if the prospective HSR implementation would be potentially effective given the behavior of the past decade and current plans.

Now, this allows us now to make some recommendations for the future of HSR in the NEC, but first we will review the work done so far.

First, we discussed the concept, the metrics, and the methods of productivity measurement, reviewed previous productivity studies in rail transportation, and discussed the implications for the research on productivity of intercity passenger rail transportation in Chapter 1.

Then, we reviewed the history and performance of Amtrak at the national level, contrasted it with the passenger rail transportation system of the NEC, and explored the HSR prospects in the NEC for the next decades in Chapter 2.

In Chapter 3, we laid out a specific structure to study the productivity of passenger rail in the NEC. We used a non-parametric SFP Törnqvist trans-log index approach, with several SFP metrics, to analyze the performance and understand the behavior of the NEC in FY 2002-2012, with data from Amtrak's year-end monthly performance reports.

Finally, in Chapter 4, we used the structure of analysis and findings of Chapter 3 to make inferences on the productivity of future HSR developments in the NEC, as described in Chapter 2. Most importantly for the goals of this research, we estimated the productivity trends of the Amtrak's vision for HSR in the NEC for 2013-2040.

# 5.2. Findings

In this process, we have grouped the following overarching findings:

• Productivity analyses are useful for assessing performance and determining the drivers of performance in intercity passenger rail transportation, but the literature is sparse.

Productivity analyses allow managers and decision-makers to understand the behavior and the drivers of productivity change in the NEC, and to better prepare or respond to potential realizations of the future. In general, productivity improvements explain long-term improvements in intercity passenger transportation. In the past, they have translated into benefits to operators and users. For the future, they can reveal if a strategy is realistic or not, and even if a strategy is preferred over another. However, the literature on passenger rail transportation productivity is not extensive, is sparse, and the myriad of approaches to productivity analyses, selected by various researchers, make it hard not only to comprehend, but also to compare results across studies.

• Not only is the productivity literature sparse, but also has guidelines that are confusing, sometimes contradictory, and rarely specific for transportation studies. Thus the following (not exhaustive) guidelines for analyzing productivity and communicating results in intercity passenger transportation may be useful for subsequent studies.

Reference explicitly and (where possible) jointly the output and input data categories, the productivity metrics, and the method of a productivity analysis, in order to prevent confusion and to understand if results are comparable across studies.

Select the output and input data categories, then the productivity metric(s), and finally the method of productivity analysis.

**DATA:** Keep in mind that it is unclear exactly which are the outputs and inputs of a transportation process (unlike in economic studies, where at least there is a consensus on GDP, labor, and capital). For intercity passenger transportation, different outputs (not to be mistaken for multiple outputs) coexist and have different meanings: Available Seat-Miles are a proxy for transportation capacity, Revenue Passenger-Miles measure the ability to use the available capacity, and Revenue measures the ability to economically exploit the capacity.

The inputs are even more ambiguous than the outputs. There are many possible input (or cost) breakdowns, which, as with outputs, will give different meanings to the productivity metrics derived. Previous analyses have used the economic approach to inputs (labor, capital) with an additional category for fuel. The input breakdown is relevant when working with MFP and TFP, but not when using SFP.

We encourage developing alternative outputs and/or inputs in order to measure the quality of the service provided (LOS) and to account for the quality of the inputs. However, we recognize that the data might not be readily available, as they do not correspond to incumbent managerial reporting schemes.

Select physical outputs and inputs over monetary quantities where possible, but keep in mind that they are harder to get. Deflate monetary quantities as detailed as possible.

**METRICS:** Do not use partial productivity interchangeably with SFP, and MFP with TFP. Partial productivity is an arbitrary metric in multi-output multi-input or multi-output single-input processes that necessarily excludes some outputs or inputs. SFP, instead, is a metric of a singleoutput single-input process; MFP is used in single-output multi-input processes; and TFP is used in multi-output multi-input processes. SFP, MFP, and TFP do not exclude (at least intentionally) factors of production. Partial productivity does.

SFP is the preferred choice in single-output single-input processes and in multi-output multiinput processes that can be unmistakably reduced to a single output single-input process. MFP and TFP are definitively preferred over the (inappropriate) partial measures of productivity in multi-output multi-input processes that cannot be unmistakably reduced to a single output singleinput process.

**METHOD:** Select the method to analyze productivity depending on the question of interest, the type of data, the data availability, the computational resources, and additional context-specific constraints. Robustness and computational easiness are desired attributes of a method of analysis. Parametric methods are very powerful; they can provide detailed information on the drivers of productivity change, but are data-intensive and computationally complex. Non-parametric methods may sacrifice the amount of information they return, but are less data-intensive and computationally friendlier than parametric methods.

Use complementary analysis, like reviewing historical events or using various productivity metrics, to compensate for the disadvantages of a particular method.

Obtain the cumulative SFP by compounding year-to-year SFP instead of by directly computing an inter-year SFP.

• In FY 2000-2012, there was substantial but not uniformly distributed ridership and revenue growth for Amtrak. Currently, system-wide unprofitability and capacity constraints in the NEC remain as two of the most pressing challenges that Amtrak faces.

Amtrak's system-wide ridership and real ticket revenue grew 55% and 38%, respectively, in FY 2000-2012. Short and special routes became more profitable and utilized than longer routes. The NEC contributed nearly half of Amtrak's ridership. Even with HSR trains running below their full potential, the NEC showed increasing revenue, ridership, operating profits, and air/rail market shares. Similarly, the incremental ridership of the Acela Express proved to be highly profitable, much more than that of the Northeast Regional and other services.

However, Amtrak still requires about \$1.2 billion annually in governmental subsidies (to which they respond that other modes are heavily subsidized as well). The NEC, the most heavily utilized railway corridor of the U.S., is still facing capacity constraints, aging infrastructure, and maintenance backlogs. Frequently, the political issues of the entire Amtrak system transfer to the NEC and make it difficult for the NEC to be discussed independently.

• Route changes, technical problems with train sets, targeted capital investments, and economic recession and recovery in the NEC translated into volatile, but considerable productivity growth in FY 2002-2012.

The analysis of four distinct SFP metrics (i.e., ridership, revenue, revenue passenger-miles, and available seat-miles SFP with respect to operating costs) through a non-parametric Törnqvist trans-log index showed that the NEC had very volatile, but upward productivity growth in FY 2002-2012. Overall, the NEC was less productive by FY 2010 than in FY 2005, had substantial productivity dips in FY 2006 and FY 2009 (-10% to -20%), but boosted its productivity in the last three years (as high as 20% in one year). As shown in Table 5.1, the yearly average SFP growth of the NEC was in the range of ~1-3%. Although results are not directly comparable with previous studies of rail transportation in the U.S., the NEC experienced higher average

productivity improvements in FY 2002-2012 than the U.S. railroads (combined freight and passenger outputs) in 1951-1974 (2.5% RPM SFP v. 1.5% [RPM & RTM] TFP) (Caves et al. 1980).

Yearly Average SFP	Ridership SFP	Revenue SFP	RPM SFP	ASM SFP	
Growth	2005-2012				
NEC	0.9%	2.8%	2.5%	0.4%	
Express	1.3%	2.9%	2.8%	-1.1%	
Regional	1.0%	2.1%	2.4%	1.3%	
		2002-	2012		
NEC	2.4%	2.0%			
Express	2.0%	1.7%			
Regional	3.0%	2.4%			

 Table 5.1- Summary of NEC SFP Growth in FY 2002-2012

• In the past decade, Amtrak increased its ability to fill up and economically exploit the available capacity in the NEC. On the other hand, supply-side productivity did not follow it.

The NEC became cumulatively  $\sim 20\%$  more productive on RPM SFP (demand side) and only  $\sim 3\%$  more productive on ASM SFP (supply side) in the past seven years. In fact, the ASM SFP of the express services actually decreased. Amtrak was far more effective at using the available capacity in the NEC (by filling up trains with more passengers over longer distances) than at generating it (running trains cheaper).

• The NEC-spine trains were volatile to external events, had large economies of scale, and presented slow adjustment of capacity that were not homogenous, but rather depended on specific routes.

Even though the effect of the economic recession of 2009 was a regrettable 2-3-year setback in ridership and revenue for all routes in the NEC, the effects of lost or gained ridership on ticket revenue were more pronounced for express services than for regional services. Also, the SFP of express services was more volatile than that of regional services. This shows that the Acela Express is more sensitive than the Northeast Regional to external factors, thus revealing risks but also opportunities for improved performance of future HSR.

The increased demand combined with a low marginal cost per RPM was evidence of economies of scale that boosted productivity on the demand side in recent years. Most of the new ridership was accommodated on existing capacity, at low extra costs. However, increasing load factors suggest that the productivity increments achieved through economies of scale might be limited in the future unless the capacity of the corridor is enhanced. Such capacity enhancements remain an unmet challenge for the NEC.

• NEC users are traveling longer distances by rail, and trains are becoming more competitive in traditional short-haul air markets.

This is evidenced by the fact that cumulative RPM SFP exceeded ridership SFP over the last decade, and also by the increased air/rail market share of Amtrak in the New York-Washington and New York-Boston routes. In the Boston-Washington market, Amtrak is still not too competitive with air travel.

• The ability to implement and operate HSR in the NEC is similar as the state of the regional economy so far as productivity concerns go; however, the demand side productivity of the NEC was more volatile with respect to external factors than the supply side.

The reestablishment of the Acela Express in FY 2006 reduced productivity more than the economic recession of 2009, and ASM SFP only recovered after infrastructure investments in recent years.

The economic dip of 2009 greatly affected the demand side of the NEC (RPM, ridership, and revenue SFP) but had little influence on the productivity of the supply side (ASM SFP). Ridership, revenue, and RPM SFP also increased at higher rates than ASM SFP in favorable years.

Although the introduction of 40 additional Acela-Express coach cars to lengthen the train sets in FY 2014 is promising (Amtrak 2011c), it might not increase ASM productivity if not coordinated with infrastructure enhancements and modifications to maintenance facilities.

• The characteristics of the NEC reveal a potential for the successful introduction of a true HSR service; however, determining a consensual implementation strategy is challenging but mandatory to move forward effectively.
The extrapolation of the past productivity determined a ballpark estimate of what the productivity in the future could be, and suggested drivers of productivity change that could help sustain such productivity growth rates. Thus, productivity changes in the past suggested future improvements in the NEC, potentially driven by well-known internal and external factors.

Now, although the geographic and socioeconomic characteristics of the NEC make it an ideal candidate for HSR, it is a multi-stakeholder, multi-state, multi-purpose corridor under a funding-constrained scenario and a polarized debate. So, current initiatives and studies attempt to find a way to enhance the NEC, e.g., the NECMP (2010), the Amtrak Vision for HSR in the NEC (2010, 2012), the multi-stakeholder effort NEC FUTURE (2012-present), and Sussman et al. (2012a, 2012b).

However, most of the planning efforts are at the early stages of development. Alternatives are still to be scoped, consensus to be reached, and significant choices made. For some critics, substantial trip time reductions are scheduled to be realized too far in the future. Current estimates of investments are highly variable. Alignments, services, and institutional arrangements have not yet been determined. So, there is uncertainty in this long-term planning and implementing process, but a common strategy among stakeholders is still needed to advance HSR in the NEC effectively.

• Amtrak's prospects for HSR in the NEC are realistic but perhaps not too ambitious. The NEC VISION may be risky.

Our analysis of the NECMP of 2010 revealed that higher productivity levels could be expected, and that the prospects for bringing the corridor to a state of good repair and accommodate some capacity growth were feasible. However, such interventions will prevent the NEC from truly deploying an international-quality HSR service, and there might be a greater potential for increased productivity and services, which the NECMP did not consider.

Our analysis of the NEC VISION of 2012 showed that the performance on the NEC is still sensitive to many factors, and the projected productivity levels are volatile and especially low at the beginning of the proposed interventions. Thus, productivity benefits may take years to realize. If the financial leverage is not there to temporarily support adverse events, or if the market and managers take too much time to adapt to changing conditions, there might be reasons to doubt on a successful implementation of HSR.

Also the NEC VISION is in some ways a bit unambitious, since the projected cumulative productivity growth is low in comparison to the growth in the past decade (20--40% in the next 30 years v. 20% in the past 10 years). In addition, international comparisons of HSR in corridors similar to the NEC suggest that Amtrak's projections of ridership and revenue are reasonable, but might be on the low side.

## 5.3. Recommendations for the Prospects of HSR in the NEC

Amtrak set forth a myriad of short-, medium-, and long-term goals and objectives to advance its vision for HSR in the NEC. In addition, the ongoing NEC FUTURE planning process frequently receives public input. Thus, there are some ways in which the current prospects for HSR in the NEC could be enriched by the findings of this thesis, in order to reduce risk and to take advantage of the opportunities of the corridor:

- The projections of ridership and revenue should be revised, given that they might be underestimated. This is in line with Amtrak's short-term (6-12 months) goal to "Further refine and develop program alternatives as part of the capital expenditure re-profiling efforts..." (Amtrak 2012).
- Air/rail cooperation and competition should be explicitly considered in shaping a more comprehensive vision for HSR in the NEC. The FAA should be involved in the planning process. This builds on Amtrak's short-term goal to "Devise future market strategies and coordinate with rail industry experts..." (Amtrak 2012).
- The effect of improved management practices within Amtrak and other stakeholders of the NEC should be considered in the projections (in case it has not been considered already). This is aligned with the medium-term (1-3 years) goal to: "Develop appropriate program management capabilities and undertake staffing and resource assessments" (Amtrak 2012).
- From a productivity perspective, priority should be given to stages of the implementation that promise the highest productivity improvements. More concretely, efforts to accelerate the Gateway Program or to develop an alternative project that achieves such benefits should be included. This is in line with Amtrak's medium-term goal to: "Define and advance "pathway" projects to gain early support and momentum" (Amtrak 2012).

• The productivity of the NEC is quite sensitive to multiple factors, including large, unexpected regional events that were not explicitly considered in Amtrak's forecasts. Also, there is uncertainty related to political support, external events, or funding for HSR. These are strong arguments for a scenario-planning approach (see Schwartz 1996) and the design of flexibility in the proposed investment alternatives, which might be useful to be better prepared to unexpected (good or bad) circumstances (see Sussman et al. 2012a). For example, new policies could favor governmental funding of HSR over air infrastructure funding. Under appropriate economic conditions, express services should be expanded much more than regional services. This is in line with Amtrak's long-term (3-10 years) goal to "Review ongoing changes that may be needed in the structure of Amtrak and the current phased implementation strategy to effectively deliver the program" (Amtrak 2012).

## 5.4. Contributions

The main contributions of this thesis can be summarized as follows:

- **Results:** To the best of the author's knowledge, these are the first results of a productivity analysis (as defined here) of intercity passenger rail transportation in the U.S., which has never been studied in isolation before, for the selected time period, or in the specific NEC context. Moreover, it contributed to general rail transportation productivity literature, by analyzing not just the NEC as a whole, but also specific services on the corridor: Acela Express and Northeast Regional.
- **Guidelines:** The thesis did a thorough literature review and provided practical guidelines in this chapter for future transportation productivity research, which hopefully will clarify the intricate productivity literature and spare some efforts for future researchers.
- Structure of Analysis: The thesis laid out a robust structure of analysis that can be subsequently (and perhaps easily) applied to other routes or sub-networks of Amtrak for the given time period, and to the future performance of the NEC and its routes. This structure overcame some limitations of parametric methods through the use of multiple SFP metrics. The sensitivity analyses also revealed that results were robust to changes in key assumptions regarding deflation of monetized data, route scoping, data reconstruction, and uncertainty of forecasts.
- Inferences on Future Productivity: To the best of the author's knowledge, this is the first time a productivity analysis of rail passenger transportation is performed for a future implementation. However, data limitations made difficult comparisons of results across the cases of analyses, and there were tradeoffs between qualitative and quantitative analyses: The qualitative analysis had a broader scope, but did not provide specific values. In contrast, the quantitative analysis gave specific results, but restricted the analysis to outputs and inputs for which data were available.

## 5.5. Future Research

**Past Productivity:** The most immediate extension of this structure of analysis is to other services or sub-networks of Amtrak (perhaps even outside of the NEC) in the same time period (FY 2002-2012), for which data are already available.

The analysis can also be updated with data from Amtrak's FY 2013 year-end monthly performance report, expected by September-October 2013.

More disaggregate past data at the NEC level would allow us to flag potential areas for improvement, and could determine where enhancements would be the most effective. For example, it would be useful to analyze the past performance of the northern and southern leg of the NEC spine separately when designing a strategy for future targeted investments. However, getting these data might not be easy.

**Future Productivity:** Without relying on Amtrak data, additional cases of analyses could be generated, for example, cases based upon subsequent reports of the NEC FUTURE, which should be increasingly detailed in the next two years.

Another improvement would be the development of a way to allocate operating costs at the route level, which would permit a comparison of performance between regional and express services, and perhaps the refinement of a strategy to mix those services.

The sensitivity analysis of Chapter 4 was a previous step to full-fledged scenario analysis. In the former, we did not suggested causes for the change in the estimates of ridership, revenue, and operating costs, and we were limited to outputs and inputs for which we had available data. In scenario analysis, we will develop one or more narratives of the future and assess their impacts on productivity. Then, we will suggest potential courses of action for the decision-makers, given the events and risks described in the narrative.

Once we get access to the "NEC Business and Financial Plan", we could update the analysis with the specific projected data from Amtrak. Hopefully, this document includes disaggregate data at the specific route-level or O-D-level, which would expand the analysis of the future productivity of the NEC. The introduction of available seat-miles or any other output on the supply side will allow us not only to understand the supply side of the services, but also to understand the implications for profitability and further growth when compared to the demand side. Additional information on the assumptions embedded in Amtrak's forecasts would allow us to analyze the projections and retrofit the strategy of investment in a less speculative fashion.

We thank the reader for taking interest in this thesis, and hope that it is of value for researchers in the railway industry and for the future development of HSR in the NEC. *¡Mil gracias!* 

## 5.6. Chapter References

Amtrak (2010). A Vision for High-Speed Rail in the Northeast Corridor.

Amtrak (2012). The Amtrak Vision for the Northeast Corridor: 2012 Update Report.

Caves, D. W., Christensen, L. R., & Swanson, J. A. (1980). *Productivity in US Railroads,* 1951-1974. The Bell Journal of Economics, 166-181.

NEC Future (2013a). *NEC FUTURE – Passenger Rail Corridor Investment Plan*. Accessed on March 2013 <u>www.necfuture.com</u>

NEC Future (2013b). NEC FUTURE – Passenger Rail Corridor Investment Plan. Preliminary Alternatives Report.

Schwartz, P. (1996). The Art of the Long View: Planning for the Future in an Uncertain World. Doubleday: New York, NY.

Sussman, J., Archila, A.F., Carlson S.J., Peña-Alcaraz, M., Stein N. (2012a). *Transportation* in the Northeast Corridor of the U.S.: A Multimodal and Intermodal Conceptual Framework. web.mit.edu/hsr-group/documents/jiti.pdf

Sussman, J., Pena-Alcaraz, M., Carlson, S. J., Archila, A. F., Stein, N. (2012b) Analysis of High-Speed Rail Implementation Alternatives in the Northeast Corridor: the Role of Institutional and Technological Flexibility.

The NEC Master Plan Working Group (MPWG) (2010). The Northeast Corridor Infrastructure Master Plan.

## Appendix A: NEC Data FY 2002-2012

This appendix displays data retrieved from Amtrak's reports. White cells indicate data that were directly retrieved from the reports, and light-blue cells show indirectly calculated data.

## NEC Data 2009-2012

Year	Route Number	Train Name	Ridership (passengers)	Total Revenue (\$ millions)	Ticket Revenue (\$)	RPM (millions)	ASM (millions)	ALF	Total Costs excl. OPEB's, Capital Charge and Other Costs	OPEB's	Capital Charge*	Total Costs	Fully Allocated Contribution / (Loss)	Fully Allocated Contribution / (Loss) per Pass Mile (cents)	Fully Allocated Contribution / (Loss) per Seat Mile (cents)
2012	RT01	Acela	3,395,354	\$521.1	\$508,080,295	646.7	1,034.2	63%	\$305.3	\$6.9	n/a	\$312.2	\$208.9	32.3	20.2
2012	RT05	Northeast Regional	8,014,175	\$552.8	\$535,700,003	1,233.9	2,550.0	48%	\$467.6	\$8.8	n/a	\$476.4	\$76.5	6.2	3.0
2012	RT99	Special Trains	13,372	\$5.3	\$2,131,944	1.8	12.4	15%	\$2.1	\$0.0	n/a	\$2.1	\$3.1	177.7	25.8
2012		TOTAL NEC	11,422,901	\$1,079.2	\$1,045,912,242	1,882.4	3,596.2	52%	\$775.1	\$15.7	n/a	\$790.8	\$288.5	15.3	8.0
2011	RT01	Acela	3,379,126	\$510.3	\$491,654,117	650.2	1,027.6	63%	\$323.4	\$8.2	n/a	\$331.6	\$178.8	27.5	17.4
2011	RT05	Northeast Regional	7,514,741	\$505.3	\$490,857,865	1,166.7	2,545.5	46%	\$467.2	\$10.1	n/a	\$477.3	\$28.0	2.4	1.1
2011	RT99	Special Trains	6,022	\$0.9	\$940,573	1.0	5.8	18%	\$2.2	\$0.0	n/a	\$2.2	(\$1.4)	-135.6	-24.0
2011		TOTAL NEC	10,899,889	\$1,016.4	\$983,452,555	1,817.9	3,578.9	51%	\$792.8	\$18.3	n/a	\$811.1	\$205.4	11.3	5.8
2010	RT01	Acela	3,218,718	\$449.8	\$440,119,294	611.1	1,014.6	60%	\$316.4	\$28.9	n/a	\$345.3	\$104.5	17.1	10.3
2010	RT05	Northeast Regional	7,148,998	\$469.7	\$458,105,798	1,105.1	2,394.4	46%	\$466.3	\$46.6	n/a	\$512.9	(\$43.1)	-3.9	-1.8
2010	RT99	Special Trains	7,493	\$0.9	\$908,307	1.2	6.0	19%	\$1.0	\$0.2	n/a	\$1.2	(\$0.3)	-25.9	-5.0
2010		TOTAL NEC	10,375,209	\$920.4	\$899,133,399	1,717.4	3,415.0	50%	\$783.6	\$75.7	n/a	\$859.3	\$61.1	3.6	1.8
2009	RT01	Acela	3,019,627	\$416.8	\$409,251,483	570.5	1,032.8	55%	\$334.3	\$22.6	n/a	\$356.9	\$59.9	10.5	5.8
2009	RT05	Northeast Regional	6,920,610	\$443.4	\$431,430,679	1,046.9	2,392.9	44%	\$451.1	\$25.8	n/a	\$476.9	(\$33.5)	-3.2	-1.4
2009	RT99	Special Trains	5,790	\$1.3	\$1,000,499	2.2	6.0	38%	\$2.6	\$0.3	n/a	\$2.9	(\$1.5)	-67.2	-25.2
2009		TOTAL NEC	9,946,027	\$861.6	\$841,682,662	1,619.6	3,431.6	47%	\$788.0	\$48.7	n/a	\$836.7	\$24.8	1.5	0.7

## NEC Data 2008-2009

Year	Route Number	Train Name	Ridership (passengers)	Total Revenue (\$ millions)	Ticket Revenue (\$)	RPM (millions)	ASM (millions)	ALF	FRA Defined Costs	Total Remaining Direct Costs	Total Non- Direct Costs	Total Costs (Excl. Dep & Int)	Contribution / (Loss) (Exclude Dep & Int)	Contribution / (Loss) per Pass Mile (cents)	Contribution / (Loss) per Seat Mile (cents)
2009	RT01	Acela	3,019,627	\$414.5	\$409,251,483	571.2	1,021.2	56%	\$135.9	\$116.3	\$94.9	\$347.1	\$67.4	11.8	6.6
2009	RT05	Northeast Regional	6,920,610	\$440.1	\$431,430,679	1,057.1	2,378.6	44%	\$186.5	\$163.0	\$157.2	\$506.7	(\$66.6)	-6.3	-2.8
2009	RT91	NEC Unknown (Crew Labor)		\$0.0				_	\$0.1	\$0.0	\$0.0	\$0.1	(\$0.1)		
2009	RT06/98/99	NEC Special Trains	5,790	\$1.3	\$1,000,499	2.1	3.0	70%	\$0.9	\$0.2	\$1.0	\$2.1	(\$0.8)	-37.5	-26.4
2009	RT70	NEC Bus Route		\$0.0					\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
2009		TOTAL NEC	9,946,027	\$855.9	\$841,682,662	1,630.5	3,402.8	48%	\$323.5	\$279.6	\$253.1	\$856.1	(\$0.2)	0.0	0.0
2008	RT01	Acela	3,398,759	\$474.1	\$467,782,708	631.4	1,006.3	63%	\$145.1	\$113.4	\$86.8	\$345.3	\$128.8	20.4	12.8
2008	RT05	Northeast Regional	7,489,426	\$490.5	\$481,606,621	1,100.0	2,200.0	50%	\$185.4	\$165.4	\$137.5	\$488.3	\$2.2	0.2	0.1
2008	RT91	NEC Unknown (Crew Labor)		\$0.0					\$1.3	\$0.0	\$0.0	\$1.3	(\$1.3)		
2008	RT06/98/99	NEC Special Trains	9,667	\$1.6	\$1,249,590				\$1.1	\$0.3	\$0.1	\$1.4	\$0.2		
2008	RT70	NEC Bus Route		\$0.0					\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
2008		TOTAL NEC	10,897,852	\$966.2	\$950,638,920	1,731.4	3,206.3	54%	\$332.9	\$279.0	\$224.3	\$836.2	\$129.9	7.3	3.8

## NEC Data 2005-2008

Year	Route	Train Name	Ridership	Total Revenue	Ticket	RPM (millions)	ASM (millions)	ALF	Direct	Other Direct	Total Shared	Total Attributed	Contribution / (Loss) (Exclude Dep	Contribution / (Loss) per Pass Mile	Contribution /(Loss) per Seat Mile
	Number		(passengers)	(\$ minons)	Kevenue (9)	(minions)	(manions)		Labor	Costs	Costs	Costs	& Int)	(cents)	(cents)
2008	RT01	Acela	3,398,759	\$486.3	\$467,782,708	630.9	1,019.4	62%	\$27.2	\$110.5	\$128.4	\$266.1	\$220.2	34.9	21.6
2008	RT05	Northeast Regional	7,489,426	\$518.4	\$481,606,621	1,144.5	2,401.6	48%	\$53.7	\$129.3	\$188.9	\$371.9	\$146.5	12.8	6.1
2008	RT91	NEC Unknown (Crew Labor)		\$0.0					\$1.1	\$0.2	\$0.0	\$1.3	(\$1.3)		
2008	RT06/98/99	Special Trains	9,667	\$4.6	\$1,249,590				\$0.3	\$0.5	\$0.2	\$1.1	\$3.6		
2008	RT70	NEC Bus Route		\$0.0					\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
2008		TOTAL NEC	10,897,852	\$1,009.4	\$950,638,920	1,775.5	3,421.1	52%	\$82.2	\$240.6	\$317.6	\$640.4	\$369.0	20.7	10.7
2007	RT01	Acela	3,191,321	\$421.4	\$403,571,410	576.9	980.1	59%	\$23.7	\$105.5	\$119.6	\$248.8	\$172.5	29.9	17.6
2007	RT05	Northeast Regional	6,836,646	\$459.5	\$424,721,134	973.8	2,272.2	43%	\$46.7	\$129.5	\$201.4	\$377.7	\$81.8	8.4	3.6
2007	RT91	NEC Unknown (Crew Labor)		\$0.0					\$0.7	\$0.0	\$0.0	\$0.7	(\$0.7)		
2007	RT06/98/99	Special Trains	7,045	\$4.3	\$1,011,903				\$0.2	\$0.3	\$0.1	\$0.6	\$3.7		
2007	RT70	NEC Bus Route		\$0.0					\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
2007		TOTAL NEC	10,035,012	\$885.2	\$829,304,447	1,550.7	3,252.3	48%	\$71.3	\$235.3	\$321.2	\$627.8	\$257.4	16.6	8.0
2006	RT01	Acela/Metroliner	2,668,174	\$347.5	\$328,215,839	472.6	922.6	51%	\$23.2	\$90.3	\$99.4	\$212.8	\$134.7	28.5	14.6
2006	RT05	Regionals*	6,755,085	\$439.9	\$396,149,944	961.1	2,306.7	42%	\$49.8	\$135.6	\$185.4	\$370.7	\$69.2	7.2	3.0
2006	RT91	NEC Unknown (Crew Labor)		\$0.0					\$0.2	\$0.0	\$0.0	\$0.2	(\$0.2)		
2006	RT06/98/99	Special Trains	8,020	\$7.3	\$1,067,843				\$0.3	\$0.6	\$0.2	\$1.1	\$6.1		
2006	RT70	NEC Bus Route		\$0.0					\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
2006		TOTAL NEC	9,431,279	\$794.7	\$725,433,626	1,433.7	3,229.3	44%	\$73.4	\$226.5	\$284.9	\$584.9	\$209.8	14.7	6.6
2005	RT01	Acela/Metroliner	2,452,902	\$290.2	\$276,211,184	421.5	882.1	48%	\$23.5	\$56.1	\$77.4	\$157.0	\$133.2	31.6	15.1
2005	RT05	Regionals*	7,115,698	\$403.4	\$368,675,501	1,040.9	2,410.5	43%	\$50.1	\$100.7	\$161.1	\$311.8	\$91.6	8.8	3.8
2005	RT91	NEC Unknown (Crew Labor)		(\$0.1)				-	\$0.4	\$0.0	\$0.0	\$0.4	(\$0.5)		
2005	RT06/98/99	Special Trains	17,580	\$3.3	\$1,219,518				\$0.2	\$0.5	\$0.1	\$0.9	\$2.4		
2005	RT70	NEC Bus Route		\$0.4					\$0.0	\$0.0	\$0.0	\$0.0	\$0.4		
2005		TOTAL NEC	9,586,180	\$697.2	\$646,106,203	1,462.4	3,292.6	44%	\$74.3	\$157.2	\$238.6	\$470.1	\$227.1	15.5	6.9

## NEC Data 2004-2005

Year	Route Number	Train Name	Ridership (passengers)	Total Revenue (\$ millions)	Ticket Revenue (\$)	FRA Defined Costs	Remaining Direct Costs	Total Non-Direct Costs (Exclude Dep, Int & Discont Ops	Cost	Contribution / (Loss) (Exclude Dep, Int & Discont Ops)
2005	RT01/02	Acela/Metroliner	2,452,902	\$281.1	\$276,211,184	\$87.5	\$74.5	\$53.9	\$215.9	\$65.4
2005	RT01	Acela Express	1,772,868	\$206.8	\$204,494,310	\$63.1	\$53.5	\$39.3	\$155.9	\$51.0
2005	RT02	Metroliner	680,034	\$74.3	\$71,716,874	\$24.4	\$21.0	\$14.6	\$60.0	\$14.4
2005	RT05A	Regional/Federal	7,024,021	\$371.5	\$362,944,581	\$162.6	\$133.5	\$102.1	\$398.2	(\$26.7)
2005	RT13	<b>Clocker Service</b>	1,560,856	\$15.5	\$15,501,566	\$6.8	\$7.7	\$5.8	\$20.3	(\$4.8)
2005		TOTAL NEC	11,037,779	\$668.1	\$654,657,331	\$256.9	\$215.7	\$161.7	\$634.3	\$33.8
2004	RT01/02	Acela/Metroliner	2,966,543	\$334.7	\$335,778,337	\$91.4	\$98.7	\$76.3	\$266.4	\$68.5
2004	RT01	Acela Express	2,568,935	\$287.3	\$294,654,392	\$76.9	\$85.1	\$64.3	\$226.3	\$61.1
2004	RT02	Metroliner	397,608	\$47.4	\$41,123,945	\$14.5	\$13.6	\$12.0	\$40.1	\$7.4
2004	RT05A	Regional/Federal	6,405,087	\$338.2	\$320,244,267	\$147.2	\$131.5	\$116.4	\$395.1	(\$56.9)
2004	RT13	Clocker Service	1,945,553	\$17.9	\$17,943,641	\$6.9	\$8.5	\$7.4	\$22.8	(\$5.0)
2004		TOTAL NEC	11,317,183	\$690.9	\$673,966,245	\$245.4	\$238.7	\$200.1	\$684.2	\$6.6

## NEC Data 2002-2003

							Profit / (Loss)
	Route		Ridership	Revenue	Ticket		(Exclude Dep
Year	Number	Train Name	(passengers)	(\$ millions)	Revenue (\$)	Cost	& Int)
2003	RT01/02	Acela/Metroliner	2,936,885	\$337.9	\$332,487,808	\$271.9	\$66.0
2003	RT01	Acela Express	2,363,454	\$276.8	\$272,647,303	\$218.9	\$57.9
2003	RT02	Metroliner	573,431	\$61.1	\$59,840,505	\$53.0	\$8.1
2003	RT05A	Regional/Federal	5,850,975	\$309.7	\$299,148,786	\$387.9	(\$77.1)
2003	RT05	Regional		\$298.3		\$361.3	(\$62.9)
2003	RT06	Federal	8	\$11.4		\$26.6	(\$14.2)
2003	RT13	Clocker Service	1,957,903	\$18.9	\$18,817,113	\$28.8	(\$9.9)
2003		TOTAL NEC	10,745,763	\$666.5	\$650,453,707	\$688.6	(\$21.0)
2002	RT01/02	Acela/Metroliner	3,213,981	\$370.1	\$364,149,582	\$290.2	\$79.9
2002	RT01	Acela Express		\$300.4		\$235.3	\$65.1
2002	RT02	Metroliner		\$69.7		\$54.9	\$14.8
2002	RT05A	Regional/Federal	5,975,640	\$311.2	\$312,078,313	\$392.6	(\$81.4)
2002	RT05	Regional	5,760,499	\$296.6	\$298,787,635	\$362.9	(\$66.4)
2002	RT06	Federal	215,141	\$14.6	\$13,290,678	\$29.7	(\$15.0)
2002	RT13	Clocker Service	1,978,533	\$18.9	\$18,867,001	\$25.7	(\$6.8)
2002		TOTAL NEC	11,168,154	\$700.2	\$695,094,896	\$708.5	(\$8.3)

The following are the original sections of Amtrak's FY 2003-2012 Year-End Monthly Performance Reports, from which the data for this thesis were taken.

### Confidential/Proprietary/Deliberative Process Materials

			F	Y12						
1		Ri	dership	1			Ticket	Revenue	0/ -h	
	5140	EV/44	0.1.1	% char	nge vs.	5/12	EVAA	Budget	% char	nge vs. Budget
NEC Spine	FY12	2 270 126	2.615.005	+0.5	Budget	FT12	FTTT \$491 654 117	\$520 199 206	+3.3	-23
5 - Northeast Regional	8 014 175	7 514 741	7 693 814	+6.6	+4.7	\$535 700 003	\$490,857,865	\$516,948,583	+9.1	+3.6
99 - Special Trains	13,372	6.022	7,400	+122.1	+80.7	\$2,131,944	\$940.573	\$1,099,540	+126.7	+93.9
Subtotal	11,422,901	10,899,889	11,216,309	+4.8	+1.8	\$1,045,912,242	\$983,452,555	\$1,038,247,329	+6.4	+0.7
State Supported and Other Short Distance	Corridors									
3 - Ethan Allen	54.376	49,448	49,105	+10.0	+10.7	\$2,829,307	\$2,504,308	\$2,555,998	+13.0	+10.7
4 - Vermonter	82,086	77,783	96,585	+5.5	-15.0	\$4,761,018	\$3,961,115	\$5,568,788	+20.2	-14.5
7 - Albany-Niagara Falls-Toronto	407,729	406,286	442,586	+0.4	-7.9	\$24,600.726	\$23,406,596	\$24,926,187	+5.1	-1.3
9 - Downeaster	541,757	519,668	555,089	+4.3	-2.4	\$7,741,844	\$7,149,257	\$7,796,049	+8.3	-0.7
12 - New Haven-Springfield	384,834	380,896	387,776	+1.0	-0.8	\$11,723,569	\$11,204,575	\$11,417,988	+4.6	+2.7
14 - Keystone	1,420,392	1,342,507	1,397,172	+5.8	+1.7	\$32,970,951	\$29,366,992	\$31,877,481	+12.3	+3.4
15 - Empire (NYP-ALB)	1,062,715	1,023,698	1,092,547	+3.8	-2.7	\$43,877,344	\$40,077,158	\$42,019,935	+9.5	+4.4
20 - Chicago-St. Louis (Lincoln Service)	597,519	549,465	640,039	+8.7	-6.6	\$13,353,833	\$12,262,325	\$15,182,530	+8.9	-12.0
21 - Hiawatha	838,355	819,493	859,460	+2.3	-2.5	\$15,963,261	\$14,953,873	\$15,937,371	+6.8	+0.2
22 - Wolverine	484,138	503,290	544,487	-3.8	-11.1	\$17,704,897	\$18,769,770	\$20,706,383	-5.7	-14.5
23 - Chicago-Carbondale (Illini/Saluki)	325,255	313,027	311,681	+3.9	+4.4	\$9,258,647	\$8,802,288	\$9,084,085	+5.2	+1.9
24 - Chicago-Quincy (IL Zephyr/Carl Sandburg)	232,592	223,936	233,796	+3.9	-0.5	\$5,687,467	\$5,580,227	\$5,955,475	+1.9	-4.5
29 - Heartland Flyer	87,873	84,039	90,591	+4.6	-3.0	\$2,086,587	\$1,911,994	\$2,161.314	+9.1	-3.5
35 - Pacific Surfliner	2,640,342	2,786,972	2,883,636	-5.3	-8.4	\$58,595,820	\$55,317,127	\$57,787,136	+5.9	+1.4
36 - Cascades	845,099	852,269	854,792	-0.8	-1.1	\$30,886,455	\$30,025,126	\$31,945,022	+2.9	-3.3
37 - Capitol Corridor	1,746,397	1,708,618	1,783,560	+2.2	-2.1	\$27,927,540	\$25.720,252	\$27,856,562	+8.6	+0.3
39 - San Joaquin	1,144,616	1,067,441	1,069,467	+7.2	+7.0	\$38,661,536	\$35,704,109	\$37,281,133	+8.3	+3.7
40 - Adirondack	131,869	125,239	129,194	+5.3	+2.1	\$6,748,333	\$6,301,649	\$6,736,625	+7.1	+0.2
41 - Blue Water	189,193	187,065	203,235	+1.1	-6.9	\$6,094,659	\$5,797,878	\$6,362,023	+5.1	-4.2
46 - Washington-Lynchburg	184,907	162,051	158,067	+14.1	+17.0	\$11,411,821	\$9,820,802	\$9,790,805	+10.1	+10.5
47 - Washington-Newport News	623,864	557,528	549,060	+11.9	+13.6	\$34,280,847	\$29,082,574	\$29,830,738	+15.5	+20
54 - Hoosier State	105,009	106 077	107 200	-1.0	-1.4	55 120 060	\$4 763 442	\$5 109 422	+7.0	+0.6
56 - Kansas City-St. Louis (MO River Runner)	195,005	207 422	207 604	+3.3	-0.8	\$9,759,003	\$8,856,539	\$9 189 976	+4.8	+1.0
66 Pere Marquette	100 321	106 662	110 865	+2.5	-14	\$3,276,210	\$3 197 106	\$3 424 242	+2.5	-4.3
66 - Cardinian	306 419	307 213	340 264	-0.3	-9.9	\$18 652 552	\$17,720,525	\$19,537,252	+5.3	-4.5
67 - Diedmont	162 657	140.016	148,511	+16.2	+9.5	\$3.077.031	\$2,498,540	\$2,523,761	+23.2	+21.9
74-81 85 - Buses	-	-				\$7,858,849	\$7,993,876	\$6,991,982	-1.7	+12.4
96 - Special Trains	32.612	39,653	43,602	-17.8	-25.2	\$2,747,535	\$2,772,993	\$2,533,350	-0.9	+8.5
Subtotal	15,081,477	14,765,011	15,417,371	+2.1	-2.2	\$458,062,196	\$426,965,070	\$452,940,239	+7.3	+1.1
Long Distance										
16 - Silver Star	425,794	424,394	433,277	+0.3	-1.7	\$35,080,321	\$32,963,894	\$33,850,409	+6.4	+3.6
18 - Cardinal	116.373	110,923	117,664	+4.9	-1.1	\$7,536,903	\$7.097.809	\$7,709,981	+6.2	-2.2
19 - Silver Meteor	375,164	373.576	379,580	+0.4	-1.2	\$39,773,225	\$39.041.195	\$39,602,263	+1.9	+0.4
25 - Empire Builder	543,072	469,167	534,593	+15.8	+1.6	\$66,655.153	\$53,773,711	\$66.637.131	+24.0	+0.0
26 - Capitol Ltd.	226.884	226,597	237,120	+0.1	-4.3	\$20,480,182	\$20,312,544	\$21,344,948	+0.8	-4.1
27 - California Zephyr	376.459	355.324	393,425	+5.9	-4.3	\$47,605,728	\$44,751,539	\$50,537,584	+6.4	-5.8
28 - Southwest Chief	355,316	354,912	375,631	+0.1	-5.4	\$44,183,540	\$44,184,060	\$47,151,590	-0.0	-6.3
30 - City of New Orleans	253,170	233,318	255,247	+8.5	-0.8	\$20,768.426	\$17,743,443	\$20,374,397	+17.0	+1.9
32 - Texas Eagle	337,973	299,508	311,308	+12.8	+8.6	\$26,304,505	\$24,475,309	\$26,523,151	+7.5	-0.8
33 - Sunset Ltd.	101.217	99,714	103,796	+1.5	-2.5	\$11,584,844	\$11,138,286	\$12,235,114	+4.0	-5.3
34 - Coast Starlight	454,443	426,584	420,432	+6.5	+8.1	\$40,826,562	\$39,997,952	\$39,256,529	+2.1	+4.0
45 - Lake Shore Ltd.	403,700	387,043	404,134	+4.3	-0.1	\$32,785,725	\$30,701,576	\$33,050.270	+6.8	-0.8
48 - Palmetto	198,260	196,743	205,714	+0.8	-3.6	\$17,342,317	\$16,438,480	\$17,577.321	+5.5	-1.3
52 - Crescent	304,266	304,086	325,182	+0.1	-6.4	\$32,584,682	\$30,023,636	\$32,646,228	+8.5	-0.2
63 - Auto Train	264,096	259,944	254,554	+1.6	+3.7	\$72,518,200	\$68,618,768	\$69,448,919	+5.7	+4.4
Subtotal	4,736,187	4,521,833	4,751,657	+4.7	-0.3	\$516,030,313	\$481,262,202	\$517,945,835	+7.2	-0.4

A - 3.5

-0.5 \$2,020,004,751 \$1,891,679,827 \$2,009,133,403 +6.8

+0.5

31,240,565 30,186,733 31,385,337 +3.5

Amtrak Total

119

National Railroad Passenger Corporation (Amtrak) Financial Performance of Routes - Fully allocated overhead, excluding Depreciation and Interest (see notes below) September 2012 YTD

Route Performance Results Exclude Depreciation and Interest. All numbers are in \$ millions except Passenger Mile and Seat Mile Calculations.

Northeast	Corridor Trains		Total Costs excl. OPEB's, Capital	Core Contribution /		Contribution /		Fully Allocated	Fully Allocated Contribution /	Fully Allocated Contribution /
Route Number	Train Name	Total Revenue	Charge and Other Costs	(Loss) excl. OPEB's	OPEB's	(Loss) before Capital Charge	Capital Charge*	Contribution / (Loss)	(Loss) per Pass Mile (cents)	(Loss) per Seat Mile (cents)
RT01	Acela	\$521.0	\$305.3	\$215.7	\$6.9	\$208.9	n/a	\$208.9	32.3	20.2
RT05	Northeast Regional	\$552.8	\$467.6	\$85.2	\$8.8	\$76.5	n/a	\$76.5	6.2	3.0
RT99	NEC Special Trains	\$5.3	\$2.1	\$3.2	\$0.0	\$3.1	n/a	\$3.1	177.7	25.8
	Total	\$1.079.2	\$775.1	\$304.1	\$15.7	\$288.5	n/a	\$288.5	15.3	8.0

State Supp	orted and Other		Total Costs excl.	Core		Contribution		Fully	Fully Allocated	Fully Allocated
Route	Train Name	Total	Charge and Other	(Loss) excl.	OPER's	(Loss) before	Capital	Contribution /	(Loss) per Pass	(Loss) per Seat Mile
PT02	Ethan Allon Exprose	tevenue \$5.2	COSIS	40.1	SO 1	so o	n/a	\$0.0	nile (cerics)	0.1
DT04	Vermonter	\$7 B	\$10.5	(\$2.7)	\$0.2	(\$2.0)	n/a	(\$2.9)	(12.2)	(5.2)
DTOT	MonioLoof	C 26 2	\$27.9	(\$1.5)	\$0.6	(\$2.1)	nla	(\$2.1)	(1.7)	(0.0)
PTOP	The Downeaster	\$11.0	\$14.6	(\$2.8)	\$0.3	(\$3.1)	0/0	(42.1)	17 11	(2.7)
DT10	New House Severalist	010.0	\$14.0	1611 01	\$0.5	1010 11	nla	1012 11	124 01	117 41
RT12	New Haven - Springheid	3122	\$23.8	(\$11.0)	\$0.5	(\$12.1)	nza	(5121)	(34.3)	(1/ 4)
8114	Keystone Service	342.2	. \$40.8	(24.7)	508	(0.04)	ina	(6.64)	(4.5)	(1.0)
R115	Empire Service	\$44.8	364.0	(\$19.8)	\$1.3	(\$21.1)	nza	(\$211)	(10.3)	(5.5)
R120	Chicago-St Louis	\$24.0	\$38.7	(\$147)	\$0.9	(\$15.5)	n/a	(\$15.5)	(15.2)	(1.3)
RT21	Hawathas	\$23.7	\$26.3	(\$2.6)	\$0.6	(\$3.2)	n/a	(\$3.2)	(4.7)	(18)
RT22	Wolverines	\$19.1	\$37.7	(\$18.6)	\$0 S	(\$19.4)	n/a	(\$194)	(19.2)	(9.7)
RT23	Iltera	\$16.0	\$20.9	(\$5.0)	\$0.5	(\$5.4)	n/a	(\$5.4)	(9.0)	(38)
RT24	Illinois Zephyr	\$14.9	\$17.1	(\$2.1)	\$0.4	(\$2.5)	n/a	(\$2.5)	(6.4)	(2.6)
RT29	Heartland Flyer	\$5.4	\$9.0	(\$3.6)	\$0.2	(\$3.8)	n/a	(\$3.8)	(24.8)	(11.1)
RT35	Pacific Surfliner	\$91.1	\$115.2	(\$24.1)	\$2.5	(\$26.6)	n/a	(\$26.6)	(11.9)	(3.7)
RT36	Cascades	\$54.0	\$67.2	(\$13.2)	\$1.4	(\$14.6)	n/a	(\$14.6)	(11.1)	(5.9)
RT37	Capitols	\$60.3	\$73.9	(\$13.6)	\$1.6	(\$15.1)	n/a	(\$15.1)	(13.6)	(3.9)
RT39	San Joaquins	\$69.9	\$85.0	(\$15.1)	\$15	(\$16.6)	n/a	(\$16.6)	(10.0)	(3.9)
RT40	Adrondack	\$10.0	\$12.6	(\$2.6)	\$0.3	(\$2.9)	n/a	(\$2.9)	(7 1)	(5.7)
RT41	Blue Water	\$12.1	\$15.0	(\$2.9)	\$0.3	(\$3.2)	n/a	(\$3.2)	(8.2)	(3.8)
RT46	Weshington-Lynchburg	\$11.8	\$7.9	\$3.9	\$0.2	\$3.7	n/a	\$3.7	8.6	58
RT47	Washington-Newport News	\$35.8	\$31.0	\$4.7	\$0.7	\$4.0	n/a	\$4.0	3.1	1.9
RT54	Hoosier State	\$0.9	\$4.6	(\$3.7)	\$0.1	(\$3.8)	n/a	(\$3.8)	(67.9)	(31.9)
RT56	Kansas City-St Louis	\$14.0	\$15.4	(\$1.5)	\$0.4	(\$1.8)	n/a	(\$1.8)	(4.8)	(2.4)
RT57	PennsyManian	\$9.9	\$15.3	(\$5.4)	\$0.3	(\$5.8)	n/a	(\$5.8)	(11.9)	(7.2)
RT65	Pere Marguette	\$5.9	\$5.9	(\$0.1)	\$0.1	(\$0.2)	n/a	(\$0.2)	(1.2)	(0.7)
RT66	Carolinian	\$21.5	\$20.0	\$1.5	\$0.5	\$10	n/a	\$1.0	11	0.9
RT67	Piedmont	\$6.6	\$7.0	(\$0.3)	\$0.2	(\$0.5)	n/a	(\$0.5)	(2.9)	(14)
RT96	Non NEC Special Trans	\$3.2	\$2.0	\$1.1	\$0.0	\$1.1	n/a	\$11	13.8	12.9
	Total	\$660.7	\$820.7	(\$160.5)	\$17.3	(\$177.9)	n/a	(\$177.9)	(9.0)	(3.9)

Poulse         Total         Charge and Other Revenue         (Loss) excl. OPEB's         (Loss) before Capital Charge         Capital Charge         Charge Pass (Loss)         (Loss) er Pass (Loss)         (Loss)         (Loss)<	Long Distance	Trains		Total Costs excl. OPEB's, Capital	Core Contribution /		Contribution /		Fully Allocated	Fully Allocated Contribution /	Fully Allocated Contribution /
RT16         Shor Star         \$387         \$82.1         (\$43.4)         \$1 & \$1 & \$43.45         (\$45.1)         n/a         (\$45.1)         (\$46.5)         (\$13.6           RT16         Cardnal         \$84.4         \$\$25.1         (\$16.6)         \$0.5         \$(\$17.2)         n/a         (\$17.7)         \$(\$17.2) </th <th>Route Number</th> <th>Train Name</th> <th>Total Revenue</th> <th>Charge and Other Costs</th> <th>(Loss) excl. OPEB's</th> <th>OPEB's</th> <th>(Loss) before Capital Charge</th> <th>Capital Charge*</th> <th>Contribution / (Loss)</th> <th>(Loss) per Pass Mile (cents)</th> <th>(Loss) per Seat Mile (cents)</th>	Route Number	Train Name	Total Revenue	Charge and Other Costs	(Loss) excl. OPEB's	OPEB's	(Loss) before Capital Charge	Capital Charge*	Contribution / (Loss)	(Loss) per Pass Mile (cents)	(Loss) per Seat Mile (cents)
RT16         Cardnal         \$8.4         \$25.1         (\$16.6)         90.5         (\$17.2)         n/a         (\$17.2)	RT16	Silver Star	\$38 7	\$82.1	(\$43.4)	\$1.8	(\$45.1)	n/a	(\$45.1)	(20.6)	(13.6)
RT19         Silver Method         542 6         \$78.8         (\$36 2)         \$1.7         (\$37 9)         n/a         (\$37 9)         (\$64 7)         (\$10 6)           RT25         Engree Builder         \$72 2         \$10 80         (\$54 7)         \$1.7         (\$37 9)         n/a         (\$37 9)         (\$64 7)         \$10 0           RT25         Engree Builder         \$22 6         \$45 6         (\$23 0)         \$10         (\$24 0)         (\$21 1)         (\$14 5)         \$69 0           RT25         Calformiz Zaphyr         \$53 2         \$120 7         (\$67 6)         \$2 8         (\$70 3)         \$67 0 3)         \$(\$2 8)         \$(\$13 0)         n/a         (\$70 0)         \$(\$2 2 8)         \$(11 3)           RT28         Southwet Chief         \$48 2         \$12 3         (\$84 2)         \$2 8         \$(\$70 3)         \$(\$2 1 2)         \$(71 8)         \$(12 1)         \$(14 5)         \$(13 0)         \$(13 0)         \$(12 1)         \$(14 5)         \$(13 0)         \$(13 0)         \$(12 1)         \$(14 5)         \$(13 0)         \$(13 0)         \$(12 1)         \$(14 5)         \$(13 1)         \$(13 0)         \$(12 1)         \$(13 1)         \$(12 1)         \$(13 1)         \$(12 1)         \$(13 1)         \$(12 1)         \$(12 1)	RT 18	Cardinal	\$8.4	\$25.1	(\$16.6)	\$0.5	(\$17.2)	n/a	(\$17.2)	(35.6)	(20.7)
PT25         Empre Builder         \$72.2         \$12.8.9         (\$54.7)         \$2.9         (\$57.6)         nfm         (\$57.6)         (\$4.5)         (\$9.9           PT25         Captol Limeted         \$22.6         \$45.6         (\$23.0)         \$1.0         nfm         (\$57.6)         (\$4.5)         (\$4.7)           PT25         Captol Limeted         \$22.6         \$45.6         (\$23.0)         \$1.0         (\$54.70)         nfm         (\$57.6)         (\$21.1)         (\$4.4           PT25         Califormiz Zephyn         \$53.2         \$12.3         (\$64.2)         \$2.6         (\$58.7)         nfm         (\$56.7)         (\$1.3)         \$1.1         \$1.4         \$1.6         \$2.6.5         \$1.1         \$1.4         \$1.4         \$1.6         \$1.2         \$1.6         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.4         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3         \$1.3 <td< td=""><td>RT 19</td><td>Silver Meteor</td><td>\$42.6</td><td>\$78.8</td><td>(\$36.2)</td><td>\$1.7</td><td>(\$37.9)</td><td>n/a</td><td>(\$37.9)</td><td>(16.4)</td><td>(10.6)</td></td<>	RT 19	Silver Meteor	\$42.6	\$78.8	(\$36.2)	\$1.7	(\$37.9)	n/a	(\$37.9)	(16.4)	(10.6)
PT26         Capitot Lumed         \$22 6         \$46 5 6         \$10         \$23 0 0         nfs         \$24 0 0         (21 1)         (14 5 1 0)           PT27         California Zaphyr         \$53 2         \$100 7         \$66 6 0         \$10 0         \$10 0         \$10 0         \$124 0 0         \$11 0         \$14 2 0           PT27         California Zaphyr         \$53 2         \$100 7         \$66 6 0         \$10 0         \$17 0         \$12 0         \$13 0           PT28         Southwest Chair         \$48 2         \$112 3         \$168 2 0         \$2 6         \$166 7 1         \$16 0         \$13 0         \$13 0         \$10 0         \$13 0         \$10 0         \$13 0         \$10 0         \$13 0         \$10 0         \$13 0         \$10 0	RT25	Empire Builder	\$72.2	\$126.9	(\$54.7)	\$2.9	(\$57.6)	n/a	(\$57.6)	(14 5)	(8.9)
RT27         California Zaphyr         S53.2         S120.7         (\$67.6)         S2.8         (\$70.3)         (\$2.6)         (\$13.3           PT26         Southwest Chueir         548.2         S12.3         (\$64.2)         S2.6         (\$70.3)         (\$2.6)         (\$13.3           RT30         Chyrd New Orleans         522.0         \$42.4         (\$20.3)         50.9         (\$21.2)         (\$14.3         (\$12.3)         (\$17.3)         (\$12.1)         (\$17.3)         (\$12.1)         (\$13.3)         \$12.2         (\$18.4)         \$12.5         \$14.6         (\$58.1)         (\$12.2)         (\$17.3)         (\$12.2)         (\$17.3)         (\$12.2)         (\$17.3)         (\$12.2)         (\$18.5)         \$13.3         \$12.5         \$14.1         (\$12.3)         \$16.3         \$13.3         \$13.3         \$13.3         \$12.2         \$14.1         \$13.5         \$13.4         \$13.5         \$13.4         \$22.2         \$13.4         \$13.5         \$13.4         \$13.5         \$13.4         \$22.2         \$13.4         \$13.5         \$13.4         \$13.5         \$13.4         \$13.5         \$13.4         \$13.5         \$13.4         \$13.5         \$13.4         \$13.5         \$13.1         \$15.4         \$13.5         \$13.1         \$15.5	RT26	Capitol Limited	\$22.6	\$45.6	(\$23.0)	\$1.0	(\$24.0)	n/a	(\$24.0)	(21.1)	(14.5)
FT28         Southwest Chuér         S48.2         \$\$112.3         (\$64.2)         \$\$2.6         (\$66.7)         (\$21.2)         (\$13.5           RT30         City of New Orleans         \$\$22.0         \$\$42.4         (\$20.3)         \$\$0.9         (\$\$21.2)         n/a         (\$\$21.2)         (\$\$1.3           RT30         City of New Orleans         \$\$22.0         \$\$42.4         (\$\$20.3)         \$\$0.9         (\$\$21.2)         n/a         (\$\$21.2)         (\$\$1.7         (\$\$1.2)         (\$\$1.2)         (\$\$1.2)         (\$\$1.2)         (\$\$1.2)         (\$\$1.2)         (\$\$1.2)         (\$\$1.3)         (\$\$1.2)         (\$\$1.3)         (\$\$2.6)         (\$\$1.4         (\$\$2.6)         (\$\$1.4         (\$\$2.6)         (\$\$1.4         (\$\$2.6)         (\$\$1.2)<	RT27	California Zephyr	\$53.2	\$120 7	(\$67.6)	\$2.8	(\$70.3)	n/a	(\$70.3)	(22.6)	(13.3)
RT30         City of New Orteans         \$22.0         \$42.4         (\$20.3)         \$0.9         (\$21.2)         n/n         (\$21.2)         (17.8)         (12.1)           RT32         Tevas Eagle         \$28.5         \$61.1         (\$32.6)         \$14.4         (\$34.0)         n/n         (\$54.0)         \$18.5         \$13.1         \$13.0         \$13.0         \$13.0         \$12.2         (\$54.0)         \$12.4         \$(\$34.17)         (\$49.4)         \$(\$25.17)         \$(\$4.17)         \$(\$49.4)         \$(\$55.17)         \$(\$55.2)         \$(\$6.17)         \$(\$49.4)         \$(\$55.7)         \$(\$55.2)         \$(\$6.2)         \$(\$55.2)         \$(\$6.2)         \$(\$55.2)         \$(\$6.2)         \$(\$55.2)         \$(\$6.2)	PT28	Southwest Chief	\$48.2	\$112.3	(\$64.2)	\$2.6	(\$66.7)	n/a	(\$66.7)	(21.2)	(13.9)
RT32         Terxes Engle         \$28.5         \$911 1         (\$22.9)         \$1.4         (\$34.0)         n/a         (\$34.0)         (\$1.5         (\$1.3)           RT33         Sunset Limited         \$13.0         \$53.6         \$40.51         \$1.2         \$(\$41.7)         n/a         \$(\$41.7)         (\$49.0)         (\$1.6         \$2.5           RT34         Coast Stanght         \$45.5         \$98.3         \$(\$53.0)         \$2.2         \$(\$55.2)         n/a         \$(\$52.5)         (\$41.7)         (\$41.7)         (\$41.7)         (\$41.7)         (\$41.7)         (\$41.7)         (\$41.7)         (\$52.5)         \$(\$7.7)         \$(\$5.2)         \$(\$7.7)         \$(\$5.2)         \$(\$7.7)         \$(\$5.2)         \$(\$7.7)         \$(\$5.2)         \$(\$7.7)         \$(\$5.2)         \$(\$7.7)         \$(\$5.2)         \$(\$7.7)         \$(\$5.2)         \$(\$7.7)         \$(\$5.2)         \$(\$7.7)         \$(\$5.2)         \$(\$7.7)         \$(\$5.2)         \$(\$7.7)         \$(\$5.2)         \$(\$7.7)         \$(\$5.2)         \$(\$7.7)         \$(\$5.2)         \$(\$7.7)         \$(\$5.2)         \$(\$7.7)         \$(\$7.1)         \$(\$7.1)         \$(\$7.1)         \$(\$7.1)         \$(\$7.1)         \$(\$7.1)         \$(\$7.1)         \$(\$7.1)         \$(\$7.1)         \$(\$7.1)         \$(\$7.1)         \$(\$7.1)	RT30	City of New Orleans	\$22.0	\$42.4	(\$20.3)	\$0.9	(\$21.2)	n/a	(\$212)	(17.8)	(12.1)
RT33         Sunset Limited         \$13.0         \$53.6         \$14.2         \$14.17         \$17.4         \$14.17         \$14.4         \$15.2         \$14.2         \$14.17         \$14.4         \$15.2         \$14.2	RT32	Texas Eagle	\$28.5	\$61.1	(\$32.6)	\$1.4	(\$34.0)	n/a	(\$34.0)	(18.5)	(13.2)
RT34         Coast Stranght         \$45.3         \$98.3         (\$53.0)         \$2.2         (\$55.2)         n/a         (\$55.2)         (24.7)         (15.2)           RT45         Lake Shore Limited         \$35.0         \$96.1         (\$11.1)         \$1.5         (\$32.6)         in/a         (\$32.6)         (\$1.2)         in/a         (\$1.2)         (\$1.2)         (\$2.2)         (\$1.2)         in/a         (\$1.2)	RT33	Sunset Limited	\$13.0	\$53.6	(\$40.5)	\$1.2	(\$41.7)	n/a	(\$417)	(49.4)	(25.2)
RT45         Lake Shore Limited         335.0         \$66.1         (\$11)         \$15.5         (\$32.6)         inf.a         (\$32.6)         (15.9)         (10.1)           RT48         Pametto         \$18.4         \$29.0         (\$10.6)         \$0.6         (\$11.2)         inf.a         (\$12.1)         (\$1.2)         inf.a         (\$1.2)         (\$1.2)	RT34	Coast Starlight	\$45.3	\$98.3	(\$53.0)	\$2.2	(\$55.2)	n/a	(\$55.2)	(24.7)	(15.2)
Prites         Patmetto         \$18.4         \$29.0         (\$10.6)         \$0.6         (\$11.2)         Infa         (\$11.2)         (12.9)         (6.2           Prits2         Crescent         \$334.9         \$74.9         \$440.0)         \$16         \$164.6)         n/a         \$441.6)         (25.7)         (14.4)           R163         Auto Train         \$74.1         \$105.1         \$\$32.0)         \$2.4         \$\$455)         (15.2)         (10.5)           Total         \$557.1         \$1,12.2.9         \$\$565.71         \$\$25.2         \$\$590.0)         n/a         \$\$590.0)         (20.2)         (12.5)	RT45	Lake Shore Limited	\$35.0	\$66.1	(\$31.1)	\$15	(\$32.6)	n/a	(\$32.6)	(15.9)	(10.1)
PT52         Crescent         \$34.9         \$74.9         (\$40.0)         \$1.6         (\$41.6)         r/a         (\$41.6)         (\$5.7)         (\$4.           RT63         Auto Train         \$77.1         \$106.1         \$\$32.0)         \$2.4         (\$34.5)         r/a         (\$34.5)         (\$5.7)         (\$1.6)           Total         \$57.7         \$1.12.2         \$(\$565.7)         \$2.2         \$(\$501.0)         n/a         (\$591.0)         (\$20.2)         (\$22.2)	RT48	Paimetto	\$18.4	\$29.0	(\$10.6)	\$0.6	(\$11.2)	n/a	(\$112)	(12.9)	(6.2)
RT63         Auto Train         \$74_1         \$106_1         (\$32_0)         \$2_4         (\$34_5)         infa         (\$34_5)         (15_2)         (10.5)           Total         \$557.1         \$1,122.9         (\$565.7)         \$25.2         (\$591.0)         infa         (\$591.0)         (20.2)         (12.6)	RT52	Crescent	\$34.9	\$74.9	(\$40.0)	\$1.6	(\$41.6)	n/a	(\$41.6)	(25 7)	(14 1)
Total \$557.1 \$1,122.9 (\$565.7) \$25.2 (\$591.0) n/a (\$591.0) (20.2) (12.6	RT63	Auto Train	\$74.1	\$106.1	(\$32.0)	\$2.4	(\$34.5)	n/a	(\$34.5)	(15.2)	(10.5)
		Total	\$557 1	\$1,122.9	(\$565.7)	\$25.2	(\$591.0)	n/a	(\$5910)	(20.2)	(12.6)

\* Under Development - will be included once it is completed

Reconciling Items between National Trai	n System and Consoli	idated Statement of C	perations
	Revenue	Expense	Net
Total National Train System	\$2,296.5	\$2,776.8	(\$480.3)
Ancillary Customers Freight and Other Customers Depreciation, net	\$450 4 \$97 1 \$0 0	\$282.6 \$312.5 \$663.7	\$167.8 (\$215.4) (\$663.7)
Operating Results	\$2,844.1	\$4,035.8	(\$1,191.7)
Interest Expense, net State Capital Payments	\$0 0 \$32.7	\$80.4 \$0.0	(\$80.4) \$32.7
Net Results	\$2,876.8	\$4,116.2	(\$1,239.4)

Notes - This report is being produced using the Antrak Performance Tracking (SAM\_APT) system, which drives costs to all customers, including freight and commuter raticads. This report reflects the information as 4 existed in SAP at the time it was produced. Future changes to SAP data may affect the placement of data within this report. Project (PR) related costs are excluded from this fully allocated report because they are paid for with Capital funding. - Antrak does not report deprecision on a route level due to the distortion caused by the sale and leaseback transactions of the late 1900's and early 2000's. Allocating depreciation and interest would unlarity burder routes whose equipment was sold and then leased back. Those transactions caused the value of those assets to increase and therefore their depreciation to increase, which is unrelated to the actual capit cost of the equipment. A synthetic capital charge is under development and will be allocated to routes and included in this report when available.

APP - 15

### National Railroad Passenger Corporation (Amtrak)

Financial Performance of Routes - Fully allocated overhead, excluding Depreciation and Interest (see notes below)

#### September 2011 YTD

Route Performance Results Exclude Depreciation and Interest. All numbers are in \$ millions except Passenger Mile and Seat Mile Calculation

Willing and an 4 millions	over the L	assenger mile end over mile our autons.	

Northeast	Corridor Trains		Total Costs excl. OPEB's, Capital	Core Contribution /		Contribution /		Fully Allocated	Fully Allocated Contribution /	Fully Allocated Contribution /
Route Number	Train Name	Total Revenue	Charge and Other Costs	(Loss) excl. OPEB's	OPEB's	(Loss) before Capital Charge	Capital Charge*	Contribution / (Loss)	(Loss) per Pass Mile (cents)	(Loss) per Seat Mile (cents)
RT01	Acela	\$510.3	\$323.4	\$186.9	\$8.2	\$178.8	n/a	\$178.8	27.5	17.4
RT05	Northeast Regional	\$505.3	\$467.2	\$38.1	\$10.1	\$28.0	n/a	\$28.0	24	11
RT99	NEC Special Trains	\$0.9	\$2.2	(\$1.3)	\$0.0	(\$1.4)	n/a	(\$1.4)	(135.6)	(24.0)
	Total	\$1.016.4	\$792.8	\$223 7	\$18.3	\$205.4	n/a	\$205.4	11.3	5.8

State Supp	orted and Other		Total Costs excl.	Core Contribution (		Contribution		Fully	Fully Allocated	Fully Allocated
Route	Train Mana	Total	Charge and Other	(Loss) excl.	OPERIA	(Loss) before	Capital	Contribution /	(Loss) per Pass	(Loss) per Seat Mile
PT03	Ethan Allen Evoress	FLEVerice S4 1	COSIS	(\$2.4)	SO 1	(\$2.5)	n/a	(\$2.5)	(26.8)	(11.0)
DT04	Varmanter	\$7.4	40.0	(\$1.7)	\$0.2	(\$1.0)	n/a	(\$1.9)	(9.0)	(4.6)
DT07	Maple Loaf	\$25.0	\$20.2	(\$5.3)	£0.7	(\$5.0)	ofa	(15. 0)	(4.7)	(2.7)
PT00	The Downeaster	\$12.5	\$13.2	(\$0.7)	\$0.3	(\$1.0)	n/a	(\$1.0)	(2.3)	(0.8)
0142	New Haves Correcticid	012.0 011.0	\$22.0	(\$12.2)	\$0.5	/\$12.01	nla	1\$12.01	(36.2)	(18.6)
DT 14	Karatana Sanisa	\$39.0	\$25 9 \$46 1	(\$12.3)	50.0	(\$12.3)	n/a	(\$9.3)	17.05	(2.8)
RT 14	Reystone Service	\$30.9	\$40 T	(\$7.2)	\$0 S	(\$21.0)	100	(\$0.2)	124.41	12 (1)
0720	Chicogo St Lows	\$40.9	\$704	(\$2.9.3)	\$0.7	154 1)	nia	164 11	14 3)	(2.0)
RT20	Chicago-Si Louis	\$20.5	5017	(\$3.4)	50 6	(00 1)	100	(\$2.3)	(2.3)	(1 2)
R121	mawatnas	923 /	\$200	(\$1.0)	\$0.0	1517 01	n/d	(52 2)	(5.5)	(7.0)
R122	vvolverines	\$20.2	\$30.4	(\$10.2)	50.0	184.41	n/a	(\$1.0)	17.45	(2.9)
R123	illini i	310 1	320 1	(\$4.0)	50.5	(54.4)	nra	(34 4)	16.25	(2.6)
R124	Illinois Zepnyr	5144	\$10.4	(\$2.0)	50 4	(\$2.4)	nza	(224)	(10 2)	12 21
R129	Heartland Hiyer	35.9	C 8¢	(\$2.5)	\$0.2	(\$27)	n/a	(327)	(18.4)	(0 2)
RT35	Pacific Surfliner	\$85.3	\$1129	(32/ 0)	\$2.5	(3.30 1)	nra	(\$30.1)	(12.0)	(4.5)
RT36	Cascades	\$50.4	\$64.5	(\$14.0)	\$1.6	(\$15.6)	n/a	(\$15.6)	(114)	(0 0)
RT37	Capitols	\$55.5	\$68.1	(\$12.6)	\$1.5	(\$14.1)	n/a	(\$14.1)	(12.8)	(37)
RT39	San Joaquins	\$71.1	\$76.4	(\$5.3)	\$1.5	(\$6.8)	n/a	(\$6.8)	(4 3)	(17)
RT40	Adrondack	\$14.6	\$13.0	\$16	\$0.3	\$1.3	n/a	\$13	3.3	27
RT41	Blue Water	\$11.7	\$13.7	(\$2.0)	\$0.3	.(\$2.3)	n/a	(\$2.3)	(6 0)	(2.7)
RT46	Washington-Lynchburg	\$10.1	\$6.7	\$3.5	\$0.2	\$3.3	n/a	\$3.3	8.4	5.5
RT47	Washington-Newport News	\$30.8	\$30.6	\$0.2	\$0.7	(\$0.5)	n/a	(\$0.5)	(0.4)	(0.2)
RT54	Hoosier State	\$0.9	\$4.8	(\$3.9)	\$0.1	(\$4.0)	nfa	(\$4.0)	(68.7)	(32-3)
RT56	Kansas City-St Louis	\$13.9	\$13.8	\$0.1	\$0.3	(\$0.3)	n/a	(\$0.3)	(0.7)	(0.3)
RT57	Pennsylvanian	\$9.4	\$16.5	(\$7.1)	\$0.3	(\$7.4)	n/a	(\$7.4)	(15.1)	(9.4)
RT65	Pere Marquette	\$6.0	\$6.6	(\$0.7)	\$0.2	(\$0.8)	n/a	(\$0.8)	(5.0)	(3.1)
RT66	Carolinian	\$20.8	\$21.4	(\$0.6)	\$0.5	(\$1.1)	n/a	(\$1.1)	(1 2)	(1.0)
RT67	Piedmont	\$5.2	\$6.9	(\$1.7)	\$0.2	(\$1.9)	n/a	(\$1.9)	(119)	(5 5)
RT96	Non NEC Special Trans	\$2.7	\$2.0	\$0.7	\$0.0	\$0.6	n/a	\$0.6	61	9.5
	Total	\$637.6	\$796.0	(\$158.4)	\$17.6	(\$176.0)	n/a	(\$176.0)	(8.9)	(3.9)

Long Dist	ance Trains		Total Costs excl. OPEB's, Capital	Core Contribution /		Contribution /		Fully Allocated	Fully Allocated Contribution /	Fully Allocated Contribution /
Route	Train Name	Total Revenue	Charge and Other Costs	(Loss) excl. OPEB's	OPEB's	(Loss) before Capital Charge	Capital Charge*	Contribution / (Loss)	(Loss) per Pass Mile (cents)	(Loss) per Seat Mile (cents)
RT16	Silver Star	\$36.3	\$85.0	(\$48.8)	\$1.9	(\$50.7)	n/a	(\$50.7)	(23.2)	(15.2)
RT18	Cardinal	\$7.8	\$25.8	(\$18.0)	\$0.6	(\$18.6)	n/a	(\$18.6)	(40.7)	(23.2)
RT19	Silver Meteor	\$41.6	\$837	(\$42.0)	\$1.9	(\$44.0)	n/a	(\$44.0)	(18.7)	(12.5)
RT25	Empire Builder	\$57.7	\$109.6	(\$51.9)	\$2.7	(\$54.6)	n/a	(\$54.6)	(16.7)	(9.5)
RT26	Capitol Limited	\$22.4	\$45.9	(\$23.5)	\$1.1	(\$24.5)	n/a	(\$24.5)	(213)	(14-6)
RT27	California Zephyr	\$49.8	\$1097	(\$59.9)	\$2.8	(\$62.6)	n/a	(\$62.6)	(21.8)	(12 7)
RT28	Southwest Chief	\$48.0	\$111.8	(\$63.8)	\$2.7	(\$66.5)	n/a	(\$66.5)	(20.5)	(13.9)
RT30	City of New Orleans	\$18.8	\$407	(\$21.9)	\$0.9	(\$22.8)	n/a	(\$22.8)	(21.0)	(13.5)
RT32	Texas Eagle	\$26.6	\$55.4	(\$28.8)	\$1.3	(\$30.1)	n/a	(\$30.1)	(16.9)	(12.0)
RT33	Sunset Limited	\$12.6	\$50.5	(\$37.9)	\$1.2	(\$39.1)	n/a	(\$39.1)	(46.1)	(23 6)
RT34	Coast Starlight	\$44.3	\$95.9	(\$51.6)	\$2.2	(\$53.8)	n/a	(\$53.8)	(24.5)	(15.1)
RT45	Lake Shore Limited	\$32.9	\$68.9	(\$36.0)	\$1.5	(\$37.5)	n/a	(\$37.5)	(18.5)	(11.9)
RT48	Palmetto	\$17.4	\$33.2	(\$15.7)	\$0.8	(\$16.5)	nfa	(\$16.5)	(193)	(9.2)
RT52	Crescent	\$32.3	\$75.4	(\$43.1)	\$17	(\$44.3)	n/a	(\$44.8)	(26.6)	(15.4)
RT63	Auto Train	\$69.9	\$99.2	(\$29.2)	\$2.3	(\$31.5)	n/a	(\$31.5)	(14.1)	(97)
	Total	\$518.5	\$1,090.7	(\$57.2.1)	\$25.6	(\$597.7)	n/a	(\$597.7)	(21.2)	(13.2)
	Total National Train System	\$2 172 6	\$2.679.4	(\$506.8)	\$61.5	(\$568.3)	n/a	(\$568.3)	(8.6)	(4.5)

\* Under Development - will be included once it is completed

Reconciling items between National	Train System and Consolidated Statement of Operations	
		_

	Revenue	Expense	Net
Total National Train System	\$2,172.6	\$2,740.9	(\$568.3)
Ancillary Customers Freight and Other Customers Depreciation, net	\$315.5 \$187.8 \$0.0	\$258.5 \$357.6 \$598.5	\$57 0 (\$169.7) (\$598 5)
Operating Results	\$2,675.9	\$3,955.5	(\$1,279.6)
Interest Expense, net State Capital Payments	\$0.0 \$30.9	\$93.3 \$0.0	(\$93.3) \$30.9
Net Results	\$2,706.8	\$4 048 8	(\$1.342.0)

Notes - This report is being produced using the Amitak Performance Tracking (SAM, APT) system, which drives costs to all customers, including freight and commuter railroads. This report reflects the information as t existed in SAP at the time it was produced. Future changes to SAP data may affect the placement of data with intersport. Project (PR) related costs are excluded from this fully allocated report because they are pad for with Capital funding. - Amitak does not report deprecision on a route level due to the discrition caused by the sale and leaded the value of the late 1990's and early 2000's. Allocating deprecision, and interest would infortly burden costs white equipment was split and there leaded back. Those transactions caused the value of those assets to increase and therefore their deprecision for some services, which is unrelated to the actual costal cost of the late rupment. A synthetic capital charge is under development and will be allocated to routes and included in this report when available.

APP - 16

#### Confidential/Proprietary/Deliberative Process Materials

FY11

.

MEC Spine         FY1         FY10         Budget		Ridership			Ticket Revenue						
MEC Spine         FY10         Budget         FY10         FY10         FY10         FY10         Budget         FY10         FY10 <td></td> <td></td> <td></td> <td>doranip</td> <td>% char</td> <td>nge vs.</td> <td>1</td> <td></td> <td></td> <td>% char</td> <td>nge vs.</td>				doranip	% char	nge vs.	1			% char	nge vs.
1-Acis         3.371123         3.371167         3.371167         3.371167         4.20         9491.054.117         540.01120         640.0002.02         41.7         4.90           99: Special Trans         0.027         7.480         7.280         198         450.0578         \$500.303         \$305.303         43.7         2.2           Subtorial         10.890.808         10.375.000         10.404.014         4.1         2.2         \$90.500         \$500.303         \$230.8040         4.4         4.4           3: Ebna Allan         44.0401         55.007         4.0         52.905.005         \$230.8060         \$22.070057         4.4         4.7           3: Ebna Allan         44.001         55.007         4.0         4.5         \$230.8060         \$22.070057         4.4         4.7           3: Donnation         10.0268         364.42         4.5         4.5         \$230.8060         \$27.0771.82         \$230.8060         \$27.0771.82         \$230.8060         \$27.0771.82         \$230.8060         \$27.0771.82         \$230.8060         \$27.0771.82         \$230.8060         \$27.0771.82         \$230.8060         \$27.0771.82         \$230.8060         \$27.0771.82         \$230.2000         \$27.0771.82         \$230.2000         \$27.0771.82         \$2	NEC Spine	FY11	FY10	Budget	FY10	Budget	FY11	FY10	Budget	FY10	Budget
S. Northeast Regional         7,14,74         7,146,000         7,200,277         4:51         4:27         9400,257         5940,275         5940,275         5940,275         5940,275         5940,275         5940,275         5940,275         5940,275         5940,275         5940,275         5950,300         5950,300         5950,300         5950,300         5950,300         5950,300         5950,300         450.4         44.4         44.3           State Supported and Other Short Distance         642,46         45,300         50,007         4.50         52,300,800         52,370,007         42,4         4.2           State Supported and Other Short Distance         7728         66,24         4.2         6.6         53,320,111         54,773,712         65,80         7,4         4.5           0 Donneaster         77,78         66,24         48,40         46,45         7,4         4.5         1.1         1.20,765         61,60         7,4         4.5           0 Donneaster         13,6260         1,22,680         33,841,40         30,433         33,24         4.0         1.1         1.1           1 - 6,5000         22,600,420         4.5         4.5         4.2         1.20,260         1.20,260         1.20,260         1.20,260         <	1 - Acela	3,379,126	3,218,718	3,311,947	+5.0	+2.0	\$491,654,117	\$440,119,294	\$460,082,028	+11.7	+6.9
99: 9: Sechal Trans         0.02         7.400         7.800         19: 0         9:23         9:00:307         9:00:307         9:00:307         9:00:303         9:90:53:00         12:2           State Supported and Other Short Distance Cortelors         - </td <td>5 - Northeast Regional</td> <td>7,514,741</td> <td>7,148,998</td> <td>7,320,277</td> <td>+5.1</td> <td>+2.7</td> <td>\$490,857,865</td> <td>\$458,105,798</td> <td>\$477,291,158</td> <td>+7.1</td> <td>+2.8</td>	5 - Northeast Regional	7,514,741	7,148,998	7,320,277	+5.1	+2.7	\$490,857,865	\$458,105,798	\$477,291,158	+7.1	+2.8
Subtorial         0.0.89, 89         0.0.37, 200         0.0.40, 00         4.1         4.2         9838.342.55         9938.33,84         9.44         4.3           State Supported and Other ShortD Distance Correctors         -	99 - Special Trains	6,022	7,493	7,880	-19.6	-23.6	\$940,573	\$908,307	\$965,300	+3.6	-2.6
State Supported and Other Short Distance Contiders         53.067         +3.0         6.9         52.2504.308         52.2504.308         52.2700.057         +4.4         4.2           3: Elban Allen         40.448         48.031         53.067         +3.0         4.9         53.067         52.2504.308         52.2702.057         42.2488.106         +7.4         4.2         53.067         +7.4         4.2         53.067         +7.4         4.2         53.027         52.2707.012         522.3708.007         +4.4         4.2         53.027         50.711.038         57.0267.016         65.0         9.8         51.027.112         522.371.122         523.371.122         523.371.122         523.371.122         523.371.122         523.371.122         523.371.122         523.371.122         523.371.122         523.371.122         523.371.122         523.371.122	Subtotal	10,899,889	10,375,209	10,640,104	+5.1	+2.4	\$983,452,555	\$899,133,399	\$938,338,486	+9.4	+4.8
Start Advance         49.446         48.031         53.021         43.0         45.0         45.044.303         53.064.303         53.07.047         54.07.047         54.07.047         54.07.047         54.07.047         54.07.047         54.07.047         54.07.047         54.07.047         54.07.047         54.07.049         77.7.04         54.07.04         77.7.4         45.0         53.07.11.03         57.27.07.047         54.07.049         77.7.4         45.0         53.07.11.03         57.27.07.04         55.07.04         65.0         60.0         57.07.010         57.27.07.04         51.07.17.03         57.27.01.04         51.07.03.04         61.07.04         77.7.4         45.0         53.07.17.01         55.07.01         65.0         60.0         61.07.07.03         61.00.0         61.07.01         63.07.01	State Supported and Other Short Distance	e Corridors									
4-versiter         77.75         60.24         63.342         68.340         65.1         53.90.1115         54.77747         54.068         -17.7747         54.067         -17.7747         54.067         -17.7747         54.067         -17.7747         54.067         -17.7747         54.067         -17.7747         54.067         -17.7747         54.067         -17.7747         54.067         -17.7747         54.067         -17.7747         54.067         -17.7747         54.067         -17.7747         54.067         -17.7747         54.067         57.203.100         -0.5         -0.0           12. New Haven-Springfield         13.02507         12.066.381         340.432         +3.8         +2.9         52.30.06.022         52.73.737.201         \$40.240.007         +0.0         -0.4           0.10. Change-Schuldsatent-Bernen         0.03.367         77.16.066         +4.7         +3.5         11.063.077         \$1.00.01103         \$1.177.772         +4.00.07         +1.0         +1.1           2.1. Change-Cubindsatent         0.03.367         72.16.066         +4.7         +3.5         19.11.094         51.00.01103         \$1.777.724         +5.4         >1.76.747         +1.10         +1.1           2.2. Wolverne         2.03.05.12.12.01710         33.027.334	3 - Ethan Allen	49,448	48.031	53,087	+3.0	-6.9	\$2,504,308	\$2,398,998	\$2,670,057	+4.4	-6.2
7. Asg. while parts Fails - Toronto         90.58         338.430         334.454         61         6.57         523.406.500         522.448.100         67.4         4.4           9 - Donnester         130.686         330.686         340.211         +4.8         9.1         511.204.575         510.700.06         522.448.100         +0.0         +0.0           14 - Keystone         1.322.607         1.202.686         1.30.436         +3.5         +2.9         520.306.302         527.731.20         510.770.86         +0.0         +0.0           10 - Change-SL LouisLacate Served         944.46         572.424         650.425         +0.0         +1.8         510.771.61         510.400.771.81         537.072.20         530.802         +1.7         +0.0         +1.1           21 - Hiwardta         130.307         479.773         510.605         +1.2         -0.6         58.00.228         57.074.43         510.803.84         +1.1 <td>4 - Vermonter</td> <td>77,783</td> <td>86,245</td> <td>83,429</td> <td>-9.8</td> <td>-6.8</td> <td>\$3,961,115</td> <td>\$4,778,747</td> <td>\$4,687,094</td> <td>-17.1</td> <td>-15.5</td>	4 - Vermonter	77,783	86,245	83,429	-9.8	-6.8	\$3,961,115	\$4,778,747	\$4,687,094	-17.1	-15.5
9- Downesser         59:000         479:493         488,469         66         6.4         97.14027         87.20.100         72.00         65         0.0           12: New Haven-Springfield         383,463         343,453         343,453         343,453         344         91         512.00         10.1077.868         57.001.00         +6.0         +10.1           14: Keystone         1.024,668         697.141         10.05,669         +4.3         +1.8         94.0077.184         53.002.02         \$14.73.003         \$14.73.003         \$14.73.007.42         +0.0         +9.9           21: Histantha         819.402         703.060         701.666         +47         +3.5         \$14.953.977         \$16.0001.03         \$16.601.42         +1.1         +1.1           22: Orksterme         63.03.02         294.480         71.666         +4.7         >5.5         \$5.504.225         \$5.01.63.66         +1.7         +5.2         \$5.054.577         \$5.100.200.571         \$5.177.752         +5.8         >5.7         >5.177.752         +5.8         >7.7         \$5.01.600         \$5.074.57         \$1.000.701         +7.3         >5.005.721         \$5.77.767         \$1.777.751         +5.3         >5.30.025.126         \$5.07.44.00         \$5.07.771         +5.3 </td <td>7 - Albany-Niagara Falls-Toronto</td> <td>406,286</td> <td>386,430</td> <td>384,543</td> <td>+5.1</td> <td>+5.7</td> <td>\$23,406,596</td> <td>\$21,797,094</td> <td>\$22,468,109</td> <td>+7.4</td> <td>+4.2</td>	7 - Albany-Niagara Falls-Toronto	406,286	386,430	384,543	+5.1	+5.7	\$23,406,596	\$21,797,094	\$22,468,109	+7.4	+4.2
12. new Haven-Springfield         300.060         302.364         3.49.213         4.48         0.91         511.204.575         510.271.405         510.179.268         40.5         437           16. Empre (VFALD)         1.023.668         001.124         1.005.568         4.43         1.16         540.007.156         537.0201         540.240.007         60.         0.40           20. Chalogo-St. LouisEucots Serveri         564.465         572.424         656.428         -0         1.85         512.025.235         513.324.032         518.661.447         +0.0         -9.9           21. Hiawatta         181.406         773.080         773.080         761.066         +4.4         -2.0         518.070.776         516.061.847         +1.0         +1.1         <	9 - Downeaster	519,668	478,463	488,466	+8.6	+6.4	\$7,149,257	\$6,711,893	\$7,205,160	+6.5	-0.8
in         in<	12 - New Haven-Springfield	380,896	363,458	349,213	+4.8	+9.1	\$11,204,575	\$10,277,140	\$10,179,888	+9.0	+10.1
15. Empire PUPAL(2)       1.022.686       196.1241       1.005.580       4.43       14.8       \$40.077.158       \$50.270.7261       \$40.240.007       4.00       -0.4         20. Chicago-Chi. Culls Laucin Samoni       5114.443       783.00       779.165       4.47       -3.5       \$14.035.073       \$14.032.003       \$14.731.051       +6.1       +1.5         22. Chicago-Cultory (IZ. SerVical Samonic)       313.007.421       \$16.067       +1.9       >1.10.07.472       \$16.067       +1.9       >1.10.07.472       \$16.067       +1.9       >1.10.07.473       \$16.067.18       \$10.007.183       \$10.800.113       \$10.07.18       \$10.800.113       \$10.807.18       \$10.80	14 - Keystone	1.342.507	1,296,838	1.304.353	+3.5	+2.9	\$29,366,992	\$27,731,221	\$28,331,522	+5.9	+3.7
Con-ChargerSt:         Cubic Buschel Servect)         E949.465         S72, 424         S690.47         -1.6         S12.202.305         S13.302.4032         S13.007.462         -0.9.9           21 - Hiawatha         B10.400         783.006         791.555         +4.7         -3.5         S14.93.073         S14.020.015         S14.731.016         +1.1         +1.1           22 - Notwerte         S00.00         P31.027         P34.034         S15.057         S16.0760.770         S16.009.193         S16.851.842         +11.0         +1.1           22 - Chicago-Cubring T. Zrepsyl-Cate Simulary         P34.003         B21.467         P32.8         S50.027.150         S1.774.754         +5.8         F37.451         F40         -52         S50.027.150         S1.774.75         +5.8         F47.4         57.357.567         F10.8         F37.451         F40         -62         S30.027.127         F34.952.575.575.675         F11.7         F30.057.20         S2.277.041.7         F49.823.437.431.91         F40.745.575.7567         F10.851.717.7         F49.823.437.431.91         F40.072.7         F11.26         F33.577.178         F44.92.577.777.777.757.24         F30.078.93         F30.777.777.777.757.24         F30.777.777.757.24         F30.777.777.777.757.24         F30.777.777.777.777.777.777.777.777.777.7	15 - Empire (NYP-ALB)	1.023.698	981,241	1,005,599	+4.3	+1.8	\$40,077,158	\$37,807,261	\$40,240,007	+6.0	-0.4
1 + Hawatha       819,462       793,060       791,65       4.7       1.5       514,952,073       514,052,003       \$14,731,051       4.61       1.1         22 'Vickwrine       503,280       479,720       518,056       4.9       -2.9       \$18,780,770       \$16,050,013       \$16,654,42       +11.1       +1.1         22 'Ohcago-Curbon dale jitserfasike)       313,027       284,634       315,027       +182       -0.6       \$5,500,223       \$5,044,676       \$5,277,664       +0.0       +0.1         24 - Ohcago-Curbon dale jitserfasike)       223,306       208,466       212,627       +0.9       +5.2       \$5,500,227       \$5,044,676       \$5,377,2164       +11.3       +3.0         35 - Pacido Carridor       1.708,618       1.806,719       1.601,637       +6.1       +6.7       \$25,702,623       \$22,477,7610       +12.5       +13.3         30 - Cancadex       1.067,441       97,783,41       100,868       +0.3       \$50,701,473       \$51,474,146       \$32,522,572       +13.9       +10.8       +11.3       +11.4       \$32,527,573       +3.9       +9.8       +4.0       -3.9       \$4,777,101       +12.5       +3.1       +13.8       +13.9       +13.9       +13.9       +14.9       +14.9       +3.0	20 - Chicago-St. Louis (Lincoln Service)	549,465	572.424	559,425	-4.0	-1.8	\$12,262,325	\$13,324,632	\$13,607,462	-8.0	-9.9
22         Vedvering         503.220         479.722         616.006         44.9         -2.9         918.787.72         918.007.193         918.207.194         911.0         911.1	21 - Hiawatha	819,493	783,060	791,655	+4.7	+3.5	\$14,953,873	\$14,092,803	\$14,731,051	+6.1	+1.5
23 - Chicago-Carbon dale (Han-Glaubi)       313.027       284.034       315.027       184.034       315.027       184.034       187.74.34       S0.108.326       147       4.0         24 - Chicago-Cuiney (IL Zeny/Karl Smdbrrg)       223.035       209.468       212.957       +5.9       55.50.227       55.045.876       55.257.568       +10.6       +61         35 - Pacida Surfiner       2.708.572       231.804       2.708.474       47.54       50.025.172       29.952.433       553.77.27       +5.8       +7.4         35 - Cascades       882.202       838.409       90.82.86       +1.0       +6.2       550.71.27       27.78.572       +13.8       +11.3         37 - Capuid Cerridor       1.708.618       1.806.019       1.001.637       +8.1       +6.7       525.702.702.52       52.47.77.61       +12.6       +3.0         40 - Adirondack       125.238       118.673       124.616       +5.5       +0.3       36.301.649       50.686.86       50.557.76       +4.0       -3.9         41 - Blue Water       187.055       118.077       114.657       +5.6       +4.30       38.28.302       57.77.63       57.144       52.149.349       42.494.74       4.0       4.8       4.77       4.30.90       4.77.741       +7.5 </td <td>22 - Wolverine</td> <td>503,290</td> <td>479,782</td> <td>518,059</td> <td>+4.9</td> <td>-2.9</td> <td>\$18,769,770</td> <td>\$16,909,193</td> <td>\$18,561,842</td> <td>+11.0</td> <td>+1.1</td>	22 - Wolverine	503,290	479,782	518,059	+4.9	-2.9	\$18,769,770	\$16,909,193	\$18,561,842	+11.0	+1.1
24 - Chicago Quincy (LizzeryntCarl Sandourg)       223 303       209 496       212 927       46.9       45.2       \$56.9327       \$50.46.877       \$52.275.890       \$1749       78.168       +2.8       +7.5       \$1.911.694       \$1.809.780       \$1.779.752       +5.8       +7.4         35 - Pacitic Surffire       2.708.872       2.81.3004       2.708.451       \$1.800.780       \$1.712       \$44.523.433       \$53.723.184       +11.7       +3.0         37 - Capitod Corridor       1.706.816       1.800.618       +1.9       +6.2       \$30.025.126       \$27.640.666       \$26.981.277       +6.9       +5.8       +3.0         37 - Capitod Corridor       1.067.441       977.834       103.6588       +9.2       +3.5       \$3.63.01.049       \$50.808.846       \$60.557.84       +4.0       -3.8         41 - Blue Water       187.065       157.709       154.675       +18.6       +20.9       \$5.797.876       \$4.71.800       \$4.90.84.2       +22.22       +17.1         42 - Washington-Lymchung       102.051       126.077       17.26.47       +7.8       +7.4       \$4.74.37.447       +7.8       \$4.76.37.447       \$4.76.37.447       +7.8       \$7.47.4       \$7.47.8       \$7.47.4       \$7.47.4       \$7.47.4       \$7.47.4       \$7.48.	23 - Chicago-Carbondale (Illini/Saluki)	313,027	264,934	315,057	+18.2	-0.6	\$8,802,288	\$7,674,434	\$9,168,356	+14.7	-4.0
20. + Hastigned Flyer         84.033         817.49         72.186         42.8         +7.5         S1.91.10.94         S1.009.720         51.770.75.3         4-5.8         47.7         S1.91.10.94         S1.009.720         51.770.75.3         4-5.8         4-7.8         S1.91.10.94         S1.009.720         51.770.75.3         10.70         4-30         30.3           36 - Cascades         852.752         2.91.300         100.637         4-81         4-67         522.752.25         52.27.52.55         51.91.31         4-53         4-9.9         4-30         4-9.9         4-30         4-9.9         4-30         4-9.9         4-30         4-9.9         4-30         4-9.9         4-30         4-9.2         4-30         53.704.100         53.174.1166         55.65.764         4-40         -3.8           30 - Sanzadouthor-Lynchburg         102.051         120.072         114.660         4-55         4-0.3         53.00.57         57.09.043         57.134.169         4-22.8         +7.7         53.93.05.07         57.09.043         57.134.169         4-22.8         +7.7         53.03.057         57.09.043         57.10.416         4-22.8         +7.7         53.03.057         57.09.043         57.10.040         57.10.040         51.11.25         4-1.9.9         4-1.9.9	24 - Chicago-Quincy (IL Zephyr/Carl Sandburg)	223,936	209,466	212,957	+6.9	+5.2	\$5,580,227	\$5,045,876	\$5,257,596	+10.6	+6.1
36. Paudic Surfiner       2,769,6972       2,913,600       276,451       6.6       0.90       553,7127       549,6723,439       537,723,169       511,77       450,723,169       526,981,271       48,9       411,3         37. Capitol Corridor       1,706,618       1,580,619       1,601,637,73       140,85,868       9.2       430       533,704,109       531,341,146       522,527,563,459       41.9       49,8         30. San, Joaquin       1,067,441       977,333       124,816       455       40,3       53,704,109       531,341,146       52,527,563       41.9       49,8         40. Advondack       125,221       118,673       126,617       114,650       425       41,3       530,201,619       557,707,878       54,711,860       42,623       47,77       47,87         47. VWashington-Newpoth News       557,528       468,142       519,724       118,637       47,83       52,898,274       552,558,58       50,103,44       41.8       41,92       47,97       47,44       47,47       47,323       54,470,303       54,427,227       41,68       47,97       47,47       47,47       47,47       47,323       54,410,339       56,414,48       41,9       44,84       44,44       41,233,41,447       517,42,946       511,53,537,53	29 - Heartland Flyer	84,039	81,749	78,168	+2.8	+7.5	\$1,911,994	\$1,806,780	\$1,779,752	+5.8	+7.4
3a - Cazadades       852/268       836,400       902/268       +1.0       -6.2       \$520/561/26       \$277,640,005       \$247,777,610       +1.25       +3.8         37 - Capitol Corridor       1,076,411       977,334       1,035,668       +0.2       +3.0       335,704,103       \$31,341,146       \$32,525,753       \$32,525,753       \$145,005       \$37,701,01       \$41,02       >3.9         40 - Adrondack       122,239       118,073       124,616       +5.5       +0.3       \$36,004,019       \$31,341,146       \$52,525,555       \$445,034       >242,23       +17.1         41 - Blue Water       162,007       114,650       +26.6       +14.1       \$59,802,802       \$57,979,878       \$71,31,469       +22.8       +97.7         40 - Hosting Table       57,728       468,142       151,722       +10.1       +7.3       \$52,825,755       \$52,525,555       \$52,915,933       +18.3       +18.3         50 - Forensyman       186,077       172,544       173,244       +7.8       +7.4       \$47,843,42       \$41,073,033       \$42,527,724       +18.9       +12.0         50 - Parendymain       106,662       101,007       121,571       +4.7       +22       \$38,365,593       \$84,302,412       +21.1       +3.6	35 - Pacific Surfliner	2,786,972	2,613,604	2,763,451	+6.6	+0.9	\$55,317,127	\$49,523,433	\$53,723,199	+11.7	+3.0
37 - Capitol Corridor       1,08,019       1,601,037       +6.1       +7.7       252,770,222       322,227,005       324,777,810       +12.5       +3.8         39 - San, Joaquin       1,067,441       977,834       1,038,568       +0.2       +3.0       535,704,100       531,341,146       532,525,75.5       +13.9       +9.8         40 - Adrondack       125,209       116,7709       154,677       +13.6       +20.9       55,770,787.8       S4,741,600       S4,450,842       +22.8       +17.1         40 - Washington-Lynchburg       192,0051       126,072       114,680       +22.6       +13.0       529,862,574       S25,525,568       S20,150,334       +18.3       +18.3         54 - Hooder State       57,529       480,142       519,782       +10.9       +5.0       S36,8007       S790,904       S41,4002       +5.0       +11.2         54 - Kanse Cir/St. Louis Hold New Paumer       106,662       101,907       122,1571       +7.8       +7.4       S4,763,442       \$40,73,33       S4,252,724       H4.8       -1.9         56 - Pere Marquette       106,662       101,907       122,1571       +4.7       +2.1       S3,498,400       S1,568,873       S2,116,466       +0.5       +18.1         7-Heilmont       <	36 - Cascades	852,269	836,499	908,296	+1.9	-6.2	\$30,025,126	\$27,564,069	\$26,981,271	+8.9	+11.3
39: San Joaquin       1,087,441       977,834       1,036,668       +9.2       +3.0       \$35,704,100       \$31,341,146       \$32,525,753       +1.30       +9.8         40: Adrondack       125,739       118,073       124,816       +5.5       +0.3       \$30,01,494       \$0,058,894       \$36,555,764       +1.0       -3.9         41: Blue Water       182,056       126,072       114,650       +2.6       +41.3       \$98,26,802       \$7,570,943       \$7,134,164       +2.23       +17.1         40: Water       182,051       126,072       114,650       +2.6       +41.3       \$98,26,802       \$7,570,943       \$7,134,164       +2.23       +18.3       +18.3       +18.3       +18.3       +18.3       +18.4       +18.3       +18.4       +18.3       +18.4       +18.3       +18.4       +18.3       +18.4       +18.3       +18.4       +18.3       +18.4       +18.4       +19.4       +10.4       +10.4       +10.4       +22.3       \$17,70,52.5       \$17,332,706       \$3,529,364       +8.8       +19.4       +10.4       +10.4       +13.5       +10.4       +19.4       +10.4       +11.4       +13.5       +14.4       +19.4       +14.4       +19.4       +10.4       +10.4       +11.3       +	37 - Capitol Corridor	1,708,618	1,580,619	1,601,637	+8.1	+6.7	\$25,720,252	\$22,872,085	\$24,777,610	+12.5	+3.8
40 - Adrondack       125,239       118,673       124,818       +5.5       +0.3       \$6,301,6449       \$6,058,864       \$6,655,764       +4.0       -3.3         41 - Blue Watter       187,065       154,675       +18.8       +20.9       \$5,779,77,87       \$4,741,560       \$4,660,42       +22.3       +17.1         40 - Washington-Lynchurg       162,051       120,072       114,660       +28.6       +13.3       \$9,828,267       \$52,525,588       \$20,150,334       +16.3       +18.3         54 - Hoosier State       37,249       33,000       39,828       +10.9       -6.5       \$830,057       \$79,00,94       \$941,062       +50       -11.2         56 - Ranse C/rySL Lui (MC River Runner)       180,077       17,2564       17,21,417       +7.8       +7.4       \$4,763,442       \$4,073,303       \$4,352,720       \$11,955,172       +12.2       1.3       -1.6       -1.7       53,693,663       \$8,433,93       \$8,029,871       +4.8       -1.9       -1.6       -1.6       \$17,700,52       \$17,322,706       \$11,955,172       +2.2       -1.3       -1.6       -1.7       57,990,876       \$6,947,135       \$5,79,867,97       \$6,947,135       \$5,79,87,87       +1.6       +3.0       -1.6       -1.7       -2.6       \$7,903,970 </td <td>39 - San Joaquin</td> <td>1,067,441</td> <td>977,834</td> <td>1,036,568</td> <td>+9.2</td> <td>+3.0</td> <td>\$35,704,109</td> <td>\$31,341,146</td> <td>\$32,525,753</td> <td>+13.9</td> <td>+9.8</td>	39 - San Joaquin	1,067,441	977,834	1,036,568	+9.2	+3.0	\$35,704,109	\$31,341,146	\$32,525,753	+13.9	+9.8
41 - Blue Water       187,065       157,709       154,675       +18.6       +209       \$5,707,878       \$4,741,680       \$4,960,442       +22.3       +17.7         40 - Washington-Lymohuwon       557,528       468,142       517,272       +10.1       7.3       \$29,828,074       \$25,5285       \$20,003,344       +16.8       +18.8         54 - Hoosier State       37,244       33,600       33,828       +10.9       -6.5       \$53,60,57       \$796,004       \$941,002       +5.0       -11.2         50 - Pennsyvanian       207,422       203,32       214,64       +2.0       -6.1       \$84,663,39       \$4,303,303       \$4,252,729       +16.9       +12.0         65 - Pere Marquette       106,662       101,907       121,571       +4.7       -12.3       \$3,197.108       \$2,912,070       \$3,529,346       +9.8       -9.4         67 - Pendmont       307,213       306,197       323,708       -0.3       -6.1       \$17,720,525       \$17,332,708       \$17,956,172       +2.2       -1.3         74-B1 - Buses       -       -       -       7,993,876       \$69,471,158       \$52,906,070       \$390,017,548       \$410,494,885       +8.5       +4.0          30,653       36,0033	40 - Adirondack	125,239	118,673	124,816	+5.5	+0.3	\$6,301,649	\$6,058,894	\$6,555,784	+4.0	-3.9
46 - Washington-Lynchburg       162.051       126.072       114.860       +28.6       +41.3       \$9,826,802       \$7,70,943       \$7,134,168       +22.8       +37.7         47 - Washington-Newpont News       557,552       466,142       517,722       +10.1       +7.3       \$25,252,568       \$29,150,334       +10.3       +10.3         56 - Hoosise State       37.240       33.000       39,226       +10.9       +5.6       \$58,365,536       \$84,032,84       \$9,028,071       +4.8       +1.9         57 - Fennsylvanian       207,422       203,382       218,465       +2.0       -5.1       \$83,865,538       \$84,633,84       \$9,028,071       +4.8       -1.9         66 - Carolinian       307,213       306,197       323,708       -0.3       -6.1       \$17,720,525       \$17,332,708       \$17,956,971       \$2,116,495       460.5       +18.1         7-8-1 -       -       -       79,093,307       \$9,947,135       \$57,960,4967       +10.7       +7.8       +4.02       +12.7       \$2,498,540       \$1,556,873       \$2,116,495       40.52       +1.8       +7.8       +4.02       +12.7       \$2,498,540       \$1,556,873       \$2,116,495       40.52       +1.8       +1.8       +1.8       +1.8       +1.8 <td>41 - Blue Water</td> <td>187,065</td> <td>157,709</td> <td>154,675</td> <td>+18.6</td> <td>+20.9</td> <td>\$5,797,878</td> <td>\$4,741,560</td> <td>\$4,950,842</td> <td>+22.3</td> <td>+17.1</td>	41 - Blue Water	187,065	157,709	154,675	+18.6	+20.9	\$5,797,878	\$4,741,560	\$4,950,842	+22.3	+17.1
47 - Washington-Newpot News       557,528       468,142       519,722       +10.1       +7.3       \$20,692,574       \$25,525,688       \$20,150,334       +16.3       +1.8         64 - Hoosier State       37,249       33,600       39,876       +10.9       -6.5       \$533,057       \$796,094       \$34,100       +5.0       +11.2         57 - Pennsylvanian       207,422       203,392       218,485       +2.0       -5.1       \$8,656,539       \$8,453,3934       \$9,029,871       +4.8       -1.9         65 - Pere Marquette       106,662       101,907       121,571       +4.7       -12.3       \$3,197,106       \$2,912,070       \$3,529,364       +9.8       -9.4         67 - Pendmont       140,016       99,873       124,193       +40.2       +12.7       \$2,498,540       \$1,558,873       \$2,116,498       +60.5       +18.1         67 - Pendmont       140,016       98,873       124,193       +40.2       +12.7       \$2,498,540       \$1,558,873       \$2,116,498       +60.5       +18.1         67 - Special Trains       39,653       36,008       34,882       +10.1       +13.6       \$2,772,093       \$2,301,643       \$2,184,668       +15.9       +26.9          100,0753       <	46 - Washington-Lynchburg	162,051	126,072	114,650	+28.5	+41.3	\$9,826,802	\$7,570,943	\$7,134,169	+29.8	+37.7
94 Hoosier State       37,249       33,600       39,828       +10.9       -6.5       \$\$830,057       \$796,044       \$\$44,102,045       +5.0       -11.2         56 - Kanase City-St. Louis MC Runner)       106,077       172,554       173,241       +7.8       +7.4       +7.4       \$4,763,442       \$4,073,303       \$4,252,722       +16.9       +12.0         57 - Pennsywanian       207,422       203,322       211,845       +2.0       -5.1       \$8,656,539       \$8,43,394       \$9,028,77       +4.8       -1.9         66 - Carolinian       307,213       308,197       323,706       -0.3       -6.1       \$17,720,525       \$17,332,706       \$17,956,673       \$5,578,667       +15.1       +37.9         96 - Special Trains       39,653       36,008       34,882       +10.1       +13.6       \$2,772,903       \$2,301,644       \$2,184,648       +15.9       +26.9         Subtotal       14,765,01       13,866,804       14,403,803       +6.5       +2.5       \$426,965,070       \$390,017,549       \$410,494,885       +0.6       +4.0         Long Distance         6.0424,394       393,586       404,932       +7.8       +4.8       \$37,979,809       \$6,375,560       \$7,440,402	47 - Washington-Newport News	557,528	468,142	519,782	+19.1	+7.3	\$29,682,574	\$25,525,588	\$29,150,334	+16.3	+1.8
S6       Kansas City-S1: Louis IMO River Runner)       198,077       172,564       173,241       +7.8       +7.4       \$4,763,442       \$4,073,303       \$4,252,722       +16.9       +12.0         57       Pennsylvanian       207,422       203,392       218,456       +2.0       -5.1       \$6,865,636       \$8,463,934       \$5,029,871       +4.48       -1.9         66       Carolinan       307,213       308,197       323,709       -0.3       -5.1       \$17,720,525       \$17,352,726       \$17,955,172       +2.2       -1.3         67       Piedmont       140,016       99,873       124,193       +40.2       +12.7       \$2,498,640       \$15,556,873       \$2,114,456       +60.5       +16.1       +37.9         68       Special Trains       39,653       36,008       34,822       +7.8       +4.5       \$22,906,540       \$30,273,978       +10.6       +5.9       +26.9         Subtotal       14,765,01       13,865,804       404,932       +7.8       +4.8       \$32,963,894       \$29,805,402       \$30,273,978       +10.6       +5.9         Subtotal       107,053       122,419       +36       -9.4       \$709,807       \$33,0271,821       \$37,222,827       +10.7	54 - Hoosier State	37,249	33,600	39,826	+10.9	-6.5	\$836,057	\$796,094	\$941,062	+5.0	-11.2
57 - Pennsylvanian       207,422       203,392       218,485       +2.0       -5.1       \$8,856,539       \$8,453,834       \$9,029,871       +4.8       -1.9         65 - Pere Marquette       106,662       101,907       121,571       +4.7       -1.23       \$3,197,106       \$2,291,2070       \$3,529,364       +9.8       -9.4         66 - Carolinian       307,213       306,197       323,709       -0.3       -5.1       \$17,720,525       \$17,323,529       \$17,535,712       +2.2       -1.3         74-B1 - Buses       -       -       -       -       -       7.993,876       \$6,947,135       \$5,798,667       +15.1       +37.9         84-5 Special Trains       39,653       36,008       34,892       +10.1       +13.6       \$22,772,993       \$2,391,643       \$2,184,668       +15.9       +26.9         Subtotal       14,765,011       13,866,804       14,403,803       +6.5       +2.5       \$426,965,070       \$390,017,549       \$410,494,885       +8.5       +26.9         Cardinal       110,923       107,053       122,419       +3.6       -9.4       \$7,097,809       \$63,375,560       \$7,464,062       +11.3       -4.9          49,167	56 - Kansas City-St. Louis (MO River Runner)	186.077	172,554	173,241	+7.8	+7.4	\$4,763,442	\$4,073,303	\$4,252,729	+16.9	+12.0
66 - Pare Marquette       106,662       101,907       121,571       +4.7       -12.3       \$3,17,106       \$2,912,070       \$3,529,364       +9.8       -9.4         66 - Carolinian       307,213       308,197       233,708       -0.3       -5.1       \$17,700,525       \$17,332,708       \$17,955,172       +2.2       -1.3         67 - Piedmont       140,016       99,873       124,103       +40.2       +12.7       \$2,408,540       \$1,556,873       \$2,116,465       +16.1       +37,993,876       \$6,947,135       \$5,798,667       +15.1       +37,993       \$2,301,643       \$2,184,668       +15.5       +26.9         Subtotal       14,765,011       13,866,804       14,403,803       +6.5       +2.5       \$426,965,070       \$390,017,549       \$410,494,808       +9.5       +4.0         Long Distance         Long Distance         10 - Silver Meteor       373,576       352,286       364,303       +0.0       +2.5       \$39,041,195       \$35,271,821       \$37,228,267       +10.7       +4.9 26 - Capital Ltd.       226,567       \$30,273,771       \$56,497,143       \$61,361,260       +8.9       +8.9       +8.9       +8.9       +8.9       +4.0       \$32,298,3602	57 - Pennsylvanian	207,422	203,392	218,485	+2.0	-5.1	\$8,856,539	\$8,453,934	\$9,029,871	+4.8	-1.9
66 - Carolinian       307,213       308,197       323,708       -0.3       -5.1       \$17,720,525       \$17,332,708       \$17,955,172       +2.2       -1.3         67 - Piedmont       140,016       99,873       124,193       +40.2       +12.7       \$2,498,540       \$1,556,873       \$2,118,496       +60.5       +18.1       +37.99         68 - Special Trains       39,653       36,003       34,862       +10.1       +13.6       \$2,777,993       \$2,391,643       \$2,184,668       +15.9       +26.9         69 - Special Trains       39,653       36,003       4.6.5       +2.5       \$426,965,070       \$390,017,549       \$410,494,885       +9.5       +4.0         Long Distance         16 - Silver Star       424,394       393,586       404,052       +7.8       +4.8       \$32,963,894       \$29,805,402       \$30,273,978       +10.6       +8.9         Silver Mateor         12 - Silver Metor       373,676       352,286       364,303       +6.0       +2.5       \$30,011,95       \$35,271,821       \$37,282,677       +10.7       +4.9       +4.9         2 - Enpire Builder       499,171       533,493       540,124       +13.5       53,171,135       58,471,43 <td< td=""><td>65 - Pere Marquette</td><td>106,662</td><td>101,907</td><td>121,571</td><td>+4.7</td><td>-12.3</td><td>\$3,197,106</td><td>\$2,912,070</td><td>\$3,529,364</td><td>+9.8</td><td>-9.4</td></td<>	65 - Pere Marquette	106,662	101,907	121,571	+4.7	-12.3	\$3,197,106	\$2,912,070	\$3,529,364	+9.8	-9.4
67 - Piedmont       140,016       99,873       124,193       +40.2       +12.7       \$2,498,540       \$1,556,873       \$2,116,495       +60.5       +18.1         74-81 - Buses       -       -       -       57,993,876       \$5,994,7135       \$5,798,607       \$15,978,8067       +15.9       +26.9         Subtotal       14,765,011       13,866,804       14,403,803       +6.5       +2.5       \$426,985,070       \$390,017,549       \$410,494,885       +9.5       +40.6         Long Distance       -       -       -       \$1,78       +4.8       \$32,963,894       \$29,805,402       \$30,273,978       +10.6       +8.9         18 - Cardinal       110,023       107,053       122,419       +3.6       -9.4       \$7,097,809       \$63,375,660       \$7,464,062       +11.3       -4.9         19 - Silver Meteor       373,576       352,286       304,303       +0.2       \$53,9041,195       \$35,271,821       \$37,220,267       +10.7       +4.9         26 - Empire Builder       460,175       34,394       40,403       +5.5       -1.1       \$20,312,544       \$18,578,926       \$19,163,002       +9.3       +60.0         27 - California Zephyr       355,312       222,020       223,720       +18.8 <td>66 - Carolinian</td> <td>307,213</td> <td>308,197</td> <td>323,709</td> <td>-0.3</td> <td>-5.1</td> <td>\$17,720,525</td> <td>\$17,332,708</td> <td>\$17,955,172</td> <td>+2.2</td> <td>-1.3</td>	66 - Carolinian	307,213	308,197	323,709	-0.3	-5.1	\$17,720,525	\$17,332,708	\$17,955,172	+2.2	-1.3
74-81 - Buses       -       -       -       S7,993,876       \$6,947,135       \$5,796,667       +15.1       +37.9         96 - Special Trains       39,653       36,008       34,802       +10.1       +13.6       \$2,772,993       \$2,301,643       \$2,184,668       +15.9       +26.9         Subtotal       14,765,01       13,866,804       14,403,803       +6.5       +2.5       \$426,966,070       \$390,017,549       \$410,494,885       +0.5       +4.0         Long Distance       -       -       -       -       -       \$42,994       393,586       40,4932       +7.8       +4.8       \$32,963,894       \$29,805,402       \$30,273,975       +10.6       +8.9         18       Cardinal       110.923       107.053       122,419       +3.6       -9.4       \$7,997,809       \$63,375,600       \$53,271,821       \$37,228,257       +10.7       +4.9         25 - Empire Builder       460,167       533,493       540,334       +12.1       -13.2       \$53,773,711       \$56,847,143       \$61,361,260       8.1       -12.4         26 - Sapid Ltd.       226,697       218,956       229,189       +3.5       -1.1       \$20,312,544       \$18,579,926       \$11,01,000       \$21,233       \$44,751,539	67 - Piedmont	140,016	99,873	124,193	+40.2	+12.7	\$2,498,540	\$1,556,873	\$2,116,495	+60.5	+18.1
96 - Special Trains       39,653       38,008       34,892       +10.1       +13.6       \$2,772,993       \$2,391,643       \$2,184,668       +15.9       +26.9         Subtotal       14,765,011       13,866,804       14,403,803       +6.5       +2.5       \$426,965,070       \$390,017,549       \$410,494,885       +9.5       +4.0         Long Distance	74-81 - Buses	-					\$7,993,876	\$6,947,135	\$5,798,667	+15.1	+37.9
Subtotal         14,765,011         13,866,804         14,403,803         +6.5         +2.5         \$426,965,070         \$390,017,549         \$410,494,885         +9.5         +4.0           Long Distance         16 - Silver Star         424,394         393,586         404,932         +7.8         +4.8         \$32,963,894         \$29,805,402         \$30,273,978         +10.6         +8.9           18 - Cardinal         110,923         107,053         122,419         +3.6         -9.4         \$7,097,809         \$63,375,600         \$7,484,062         +11.3         -4.9           19 - Silver Meteor         373,676         352,286         364,034         +12.1         -13.2         \$53,773,711         \$58,497,143         \$61,312,260         +0.3         +0.0           26 - Capitol Ltd.         226,567         218,956         229,189         +3.5         -1.1         \$20,312,544         \$18,578,926         \$19,163,002         +9.3         +6.0           26 - Capitol Ltd.         226,567         218,956         229,189         +3.5         -1.1         \$20,312,544         \$18,578,926         \$19,163,002         +9.3         +6.0           27 - California Zephyr         356,324         377,876         379,167         -6.0         -6.3         \$44,751,	96 - Special Trains	39,653	36,008	34,892	+10.1	+13.6	\$2,772,993	\$2,391,643	\$2,184,668	+15.9	+26.9
Long Distance           16 - Silver Star         424,394         393,586         404,932         +7.8         +4.8         \$32,963,894         \$29,805,402         \$30,273,978         +10.6         +8.9           18 - Cardinal         110,923         107,053         122,419         +3.6         -9.4         \$7,097,809         \$6,375,560         \$7,464,062         +11.3         -4.9           19 - Silver Meteor         373,576         352,286         364,033         +12.1         -13.2         \$53,271,821         \$37,228,257         +10.7         +4.9           26 - Empire Builder         469,167         533,493         640,334         -12.1         \$20,312,544         \$18,578,926         \$19,163,002         +9.3         +6.0           27 - California Zephyr         356,324         377,876         379,167         -6.0         -6.3         \$44,751,539         \$43,754,763         \$45,709,800         +2.3         -2.1           28 - Southwest Chief         354,912         342,403         329,962         +3.7         +7.6         \$44,184,060         \$41,84,063         \$51,73,871         \$22,820,916         \$22,830,94         +2.9         +2.9         +2.5         53         30         -211         \$36,351,616         +2.2         +2.5 <t< th=""><th>Subtotal</th><th>14,765,011</th><th>13,866,804</th><th>14,403,803</th><th>+6.5</th><th>+2.5</th><th>\$426,965,070</th><th>\$390,017,549</th><th>\$410,494,885</th><th>+9.5</th><th>+4.0</th></t<>	Subtotal	14,765,011	13,866,804	14,403,803	+6.5	+2.5	\$426,965,070	\$390,017,549	\$410,494,885	+9.5	+4.0
16 - Silver Star       424,394       393,586       404,932       +7.8       +4.8       \$32,963,894       \$29,805,402       \$30,273,978       +10.6       +8.9         18 - Cardinal       110,923       107,053       122,419       +3.6       -9.4       \$7,097,809       \$6,375,650       \$7,404,062       +11.3       -4.9         19 - Silver Meteor       373,576       352,286       364,033       +12.1       13.2       \$53,271,821       \$37,228,257       +10.7       +4.9         26 - Empire Builder       469,167       533,493       640,334       +12.1       13.2       \$53,773,711       \$58,497,143       \$61,361,260       +8.1       +4.9         26 - Capitol Ltd.       226,597       218,956       229,189       +3.5       -1.1       \$20,312,544       \$18,578,926       \$19,163,002       +9.3       +6.0         27 - California Zephyr       356,324       377,876       379,167       -6.0       -6.3       \$44,751,539       \$43,754,763       \$45,709,800       +2.3       -2.1         28 - Southwest Chief       354,912       342,403       329,962       +3.7       +7.6       \$44,184,060       \$41,84,080       \$41,84,080       \$41,84,080       \$41,84,080       \$17,306,150       +2.2       +2.5       53	Long Distance										
18 - Cardinal       110.923       107.053       122.419       +3.6       -9.4       \$7,097.809       \$6.375.560       \$7.494.062       +11.3       -4.9         19 - Silver Meteor       373.576       352.286       364,303       +0.       +2.5       \$39,041.195       \$35.271.621       \$37.228.257       +10.7       +4.9         26 - Expire Builder       469,167       533.493       640,334       -12.1       -13.2       \$53,773.711       \$58.497.143       \$61.361.260       -8.1       -12.4         26 - Capitel Ltd.       226.6697       216.866       229.189       +3.5       -1.1       \$20.312.544       \$18.578.926       \$19.163.002       +9.3       +6.0         27 - California Zephyr       355.324       377.876       379.167       -6.0       -6.3       \$44,751.539       \$43.754.763       \$45.709.800       +2.3       -2.1         28 - Southwest Chief       354.912       342.403       329.962       +3.7       +7.6       \$44,184,060       \$41.604.705       \$41.84.638       +6.2       +5.6         30 - City of New Orleans       233.318       229.270       223.720       +1.8       +4.3       \$17.743,433       \$17.248.582       \$17.308.160       +2.9       +2.5         33 - Sunset Ltd.	16 - Silver Star	424,394	393,586	404,932	+7.8	+4.8	\$32,963,894	\$29,805,402	\$30,273,978	+10.6	+8.9
19 - Silver Meteor       373,676       352,286       364,303       +6.0       +2.5       \$39,041,195       \$35,271,821       \$37,228,257       +10.7       +4.9         25 - Empire Builder       469,167       533,493       640,334       -12.1       -13.2       \$53,77,11       \$58,497,143       \$61,361,260       -8.1       -12.4         26 - Capitol Ltd.       226,597       218,956       229,189       43.5       -1.1       \$20,312,544       \$18,678,926       \$19,163,002       +9.3       +6.0         27 - California Zephyr       356,324       377,876       379,167       -6.0       -6.3       \$44,751,539       \$43,754,763       \$45,709,800       +2.2       +2.5         38 - Southwest Chief       364,912       342,403       329,962       +3.7       +7.6       \$44,184,060       \$41,604,705       \$41,844,858       +2.9       +2.5         30 - City of New Orleans       233,318       229,270       223,720       +1.8       +4.3       \$17,743,443       \$17,248,582       \$17,306,150       +2.9       +2.5         32 - Texas Eagle       299,508       287,164       282,124       +4.3       +6.2       \$24,475,309       \$22,728,016       \$32,635,034       +7.7       +8.1         33 - Sunset Ltd.	18 - Cardinal	110.923	107,053	122,419	+3.6	-9.4	\$7,097,809	\$6,375,560	\$7,464,062	+11.3	-4.9
26 - Empire Builder       469,167       533,493       640,334       -12.1       -13.2       \$53,773,711       \$58,497,143       \$\$1,361,260       -8.1       -12.4         26 - Capitol Ltd.       226,697       218,956       229,189       +5.5       -1.1       \$20,312,544       \$18,578,926       \$19,163,002       +9.3       +6.0         27 - California Zephyr       355,324       377,876       379,167       -6.0       -6.3       \$44,751,539       \$43,754,763       \$45,709,800       +2.3       -2.1         28 - Southwest Chief       356,912       342,403       329,962       +3.7       7.6       \$44,144,060       \$41,604,705       \$44,144,638       +6.2       +5.6         30 - City of New Orleans       233,318       229,270       223,720       +1.8       +4.3       \$17,743,443       \$17,248,652       \$17,306,150       +2.9       +2.5         32 - Texas Eagle       299,508       287,164       282,124       +4.3       +6.2       \$24,475,309       \$22,283,016       \$32,285,034       +7.7       +8.1         33 - Sunset Ltd.       99,714       91,884       87,865       +8.8       +13.5       \$11,138,286       \$9,902,415       \$9,302,805       +11.8       +18.6         34 - Coast Starlight	19 - Silver Meteor	373,576	352,286	364,303	+6.0	+2.5	\$39,041,195	\$35,271,821	\$37,228,257	+10.7	+4.9
26 - Capitol Ltd.       226,697       218,956       229,189       +3.5       -1.1       \$20,312,544       \$18,578,926       \$19,183,002       +9.3       +6.0         27 - California Zephyr       355,324       377,876       379,167       -6.0       -6.3       \$44,751,539       \$43,754,763       \$45,709,800       +2.3       -2.1         28 - Southwest Chief       354,912       342,403       329,962       +3.7       +7.6       \$44,184,060       \$41,604,705       \$41,844,638       +6.2       +2.5         30 - City of New Orleans       223,318       229,270       223,720       +1.8       +4.3       \$17,748,433       \$17,248,582       \$17,306,150       +2.2       +2.5         32 - Texas Eagle       299,508       287,164       282,124       +4.3       +6.2       \$24,475,309       \$22,728,016       \$22,635,034       +7.7       +8.1         33 - Sunset Ltd.       99,714       91,684       87,865       +8.8       +13.5       \$11,138,286       \$9,902,415       \$9,392,805       +11.8       +18.6         34 - Coast Startight       426,584       444,205       456,584       -4.0       -6.6       \$30,701,576       \$27,529,698       \$27,080,799       +11.5       +13.5         445 - Lake Shore Ltd. <td>25 - Empire Builder</td> <td>469,167</td> <td>533,493</td> <td>540,334</td> <td>-12.1</td> <td>-13.2</td> <td>\$53,773,711</td> <td>\$58,497,143</td> <td>\$61,361,250</td> <td>-8.1</td> <td>-12.4</td>	25 - Empire Builder	469,167	533,493	540,334	-12.1	-13.2	\$53,773,711	\$58,497,143	\$61,361,250	-8.1	-12.4
27 - California Zephyr       355.324       377.876       379.167       -6.0       -6.3       \$44,751,539       \$43,754,763       \$45,709.800       +2.3       -2.1         28 - Southwest Chief       354,912       342,403       329,962       +3.7       +7.6       \$44,184,060       \$41,1604,705       \$41,84,638       +6.2       +5.6         30 - City of New Orleans       233.318       229,270       223,720       +1.8       +4.3       \$17,743,443       \$17,248,582       \$17,306,150       +2.9       +2.5         32 - Texas Eagle       299,608       227,7164       228,124       +4.3       \$17,743,443       \$17,248,582       \$17,306,150       +2.9       +2.5         33 - Sunset Ltd.       99,714       91,684       87,865       +8.8       +13.5       \$11,138,286       \$9,962,415       \$9,392,805       +11.8       +18.6         34 - Coast Starlight       426,584       444,205       456,584       -4.0       -6.6       \$30,701,76       \$27,529,698       \$27,007,99       +11.5       +13.5         34 - Paimetto       196,743       189,468       178,121       +3.8       +10.5       \$16,438,480       \$15,356,992       \$14,142,967       +7.0       +16.2         22 - Crescent       30,406       <	26 - Capitol Ltd.	226,597	218,956	229,189	+3.5	-1.1	\$20,312,544	\$18,578,926	\$19,163,002	+9.3	+6.0
28 - Southwest Chief         354,912         342,403         329,962         +3.7         +7.6         \$44,144,060         \$41,604,705         \$41,844,638         +6.2         +5.6           30 - City of New Orleans         233,318         229,270         223,720         +1.8         +4.3         \$17,743,443         \$17,248,582         \$17,306,150         +2.9         +2.5           32 - Texas Eagle         299,508         287,164         282,124         +4.3         \$17,743,443         \$17,248,582         \$17,306,150         +2.9         +2.5           33 - Sunset Ltd.         99,714         91,884         87,885         +8.8         +13.5         \$11,138,286         \$9.962,415         \$9.932,415         \$9.932,405         +11.8         +18.6           34 - Coast Starlight         426,584         444,205         456,584         -4.0         -6.6         \$39,907,952         \$37,404,114         \$37,258,792         +6.9         +7.4           45 - Lake Shore Ltd.         387,043         364,460         363,017         +6.2         +6.6         \$30,701,576         \$27,529,688         \$27,060,799         +11.5         +13.5           52 - Crescent         304,066         288,688         310,1066         +18         +10.5         \$16,438,480 <td< td=""><td>27 - California Zephyr</td><td>355.324</td><td>377.876</td><td>379,167</td><td>-6.0</td><td>-6.3</td><td>\$44,751,539</td><td>\$43,754,763</td><td>\$45,709,800</td><td>+2.3</td><td>-2.1</td></td<>	27 - California Zephyr	355.324	377.876	379,167	-6.0	-6.3	\$44,751,539	\$43,754,763	\$45,709,800	+2.3	-2.1
30 - City of New Orleans       233,318       229,270       223,720       +1.8       +4.3       \$17,743,443       \$17,248,682       \$17,306,150       +2.9       +2.5         32 - Texas Eagle       299,508       287,164       282,124       +4.3       +6.2       \$24,475,309       \$22,780,016       \$22,650,304       +7.7       +8.1         33 - Sunset Ltd.       99,714       91,684       87,865       +8.8       +13.5       \$11,138,286       \$9,902,415       \$9,392,805       +11.8       +18.6         34 - Coast Starlight       426,584       444,205       456,584       -4.0       -6.6       \$39,907,952       \$37,404,114       \$37,258,792       +6.9       +7.4         45 - Lake Shore Ltd.       387,043       384,460       363,017       +6.2       +6.6       \$30,701,576       \$27,529,698       \$27,500,799       +11.5       +13.5         46 - Palmetio       196,743       189,468       178,121       +3.8       +10.5       \$16,438,480       \$15,365,992       \$14,142,967       +7.0       +16.2         52 - Crescent       304,086       298,688       301,086       +1.8       +1.0       \$30,023,636       \$28,700,727       \$28,909,284       +4.6       +3.9         63 - Auto Train       259,9	28 - Southwest Chief	354,912	342,403	329,962	+3.7	+7.6	\$44,184,060	\$41,604,705	\$41,844,638	+6.2	+5.6
32 - Texas Eagle       299,508       287,164       282,124       +4.3       +6.2       \$24,47,509       \$22,728,016       \$22,635,034       +7.7       +8.1         33 - Sunset Ltd.       99,714       91,884       87,865       +8.8       +13.5       \$11,138,286       \$9,962,415       \$9,392,805       +11.8       +18.6         34 - Coast Starlight       426,584       444,205       456,584       -4.0       -6.6       \$39,997,952       \$37,404,114       \$37,258,792       +6.9       +7.4         45 - Lake Shore Ltd.       387,043       364,460       363,017       +6.2       +6.6       \$30,701,576       \$27,529,698       \$27,000,799       +11.5       +13.5         48 - Palmetio       196,743       189,468       178,121       +3.8       +10.5       \$16,438,440       \$15,365,992       \$14,142,967       +7.0       +16.2         52 - Crescent       304,086       298,688       301,086       +1.8       +1.0       \$30,023,636       \$28,700,727       \$28,909,284       +4.6       +3.9         63 - Auto Train       259,944       244,252       243,869       +6.4       +6.6       \$68,618,768       \$61,012,324       \$61,064,145       +12.5       +12.4         Subtotal       4,521,833	30 - City of New Orleans	233,318	229,270	223,720	+1.8	+4.3	\$17,743,443	\$17,248,582	\$17,306,150	+2.9	+2.5
33 - Sunset Ltd.       99,714       91,884       87,865       +8.8       +13.5       \$11,138,286       \$9,902,415       \$9,302,805       +11.8       +18.6         34 - Coast Starlight       426,584       444,205       456,584       -4.0       -6.6       \$39,997,952       \$37,404,114       \$37,258,792       +6.9       +7.4         45 - Lake Shore Ltd.       387,043       364,460       363,017       +6.2       +6.6       \$30,907,952       \$37,404,114       \$37,258,792       +6.9       +7.4         45 - Lake Shore Ltd.       387,043       364,460       363,017       +6.2       +6.6       \$30,701,576       \$27,529,698       \$27,060,799       +11.5       +13.5         48 - Palmetto       196,743       189,468       17,121       +3.8       +10.5       \$16,336,400       \$15,365,992       \$14,142,967       +7.0       +16.2         52 - Crescent       304,086       298,688       301,086       +1.8       +1.0       \$30,023,636       \$28,700,727       \$28,909,284       +4.6       +3.9         63 - Auto Train       259,944       244,252       243,859       +6.4       +6.6       \$68,618,768       \$61,012,324       \$61,064,145       +12.5       +12.4         Subtotal       4,521,833	32 - Texas Eagle	299,508	287,164	282, 124	+4.3	+6.2	\$24,475,309	\$22,728,016	\$22,635,034	+7.7	+8.1
34 - Coast Starlight       426,584       444,205       456,584       -4.0       -6.6       \$39,997,952       \$37,404,114       \$37,258,792       +6.9       +7.4         45 - Lake Shore Ltd.       387,043       364,460       363,017       +6.6       \$30,701,576       \$27,529,698       \$27,060,799       +11.5       +13.5         48 - Palmetto       196,743       189,468       178,121       +3.8       +10.5       \$16,438,480       \$15,365,992       \$14,142,967       +7.0       +16.2         25 - Crescent       304,086       298,688       301,086       +1.8       +1.0       \$30,023,635       \$28,700,727       \$28,909,284       +4.6       +3.9         63 - Auto Train       259,944       244,252       243,859       +6.4       +6.6       \$68,618,768       \$61,012,324       \$61,064,145       +12.5       +12.4         Subtotal       4,521,833       4,474,844       4,506,682       +1.1       +0.3       \$481,262,202       \$453,840,185       \$460,814,965       +6.0       +4.4	33 - Sunset Ltd.	99,714	91,684	87,865	+8.8	+13.5	\$11,138,286	\$9,962,415	\$9,392,805	+11.8	+18.6
46 - Lake Shore Ltd.       387,043       364,460       363,017       +6.2       +6.6       \$30,701,576       \$27,529,698       \$27,060,799       +11.5       +13.5         48 - Palmetto       196,743       189,468       178,121       +3.8       +10.5       \$16,438,480       \$15,365,992       \$14,142,967       +7.0       +16.2         52 - Crescent       304,086       298,688       301,086       +1.8       +1.0       \$30,023,636       \$28,700,727       \$28,909,284       +4.6       +3.9         63 - Auto Train       259,944       244,252       243,859       +6.4       +6.6       \$68,618,768       \$61,012,324       \$61,064,145       +12.5       +12.4         Subtotal       4,521,833       4,474,844       4,506,682       +1.1       +0.3       \$481,262,202       \$453,840,185       \$460,814,965       +6.0       +4.4         Herris       30,186,733       28,716,857       29,550,589       +5.1       +2.2       \$1,891,679,827       \$1,742,991,134       \$1,809,648,336       +8.5       +4.5	34 - Coast Starlight	426,584	444,205	456,584	-4.0	-6.6	\$39,997,952	\$37,404,114	\$37,258,792	+6.9	+7.4
48 - Palmetto       196,743       189,468       178,121       +3.8       +10.5       \$16,438,480       \$15,365,992       \$14,142,967       +7.0       +16.2         52 - Crescent       304,086       298,688       301,086       +1.8       +1.0       \$30,023,636       \$28,700,727       \$28,909,284       +4.6       +3.9         63 - Auto Train       259,944       244,252       243,859       +6.4       +6.6       \$68,618,768       \$61,012,324       \$61,064,145       +12.5       +12.4         Subtotal       4,521,833       4,474,844       4,506,682       +1.1       +0.3       \$481,262,202       \$453,840,185       \$460,814,965       +6.0       +4.4	45 - Lake Shore Ltd.	387,043	364,460	363,017	+6.2	+6.6	\$30,701,576	\$27,529,698	\$27,060,799	+11.5	+13.5
52 - Crescent       304,086       298,688       301,086       +1.8       +1.0       \$30,023,636       \$28,700,727       \$28,909,284       +4.6       +3.9         63 - Auto Train       259,944       244,252       243,859       +6.4       +6.6       \$68,618,768       \$61,012,324       \$61,064,145       +12.5       +12.4         Subtotal       4,521,833       4,474,844       4,506,682       +1.1       +0.3       \$481,262,202       \$453,840,185       \$460,814,965       +6.0       +4.4         Armtrak Total       30,186,733       28,716,857       29,550,589       +5.1       +2.2       \$1,891,679,827       \$1,742,991,134       \$1,809,648,336       +8.5       +4.5	48 - Palmetto	196,743	189,468	178,121	+3.8	+10.5	\$16,438,480	\$15,365,992	\$14,142,967	+7.0	+16.2
63 - Auto Train       259,944       244,252       243,859       +6.4       +6.6       \$68,618,768       \$61,012,324       \$61,064,145       +12.5       +12.4         Subtotal       4,521,833       4,474,844       4,506,682       +1.1       +0.3       \$481,262,202       \$453,840,185       \$460,814,965       +6.0       +4.4         Armtrak Total       30,186,733       28,716,857       29,550,589       +5.1       +2.2       \$1,891,679,827       \$1,742,991,134       \$1,809,648,336       +8.5       +4.5	52 - Crescent	304,086	298,688	301,086	+1.8	+1.0	\$30,023,636	\$28,700,727	\$28,909,284	+4.6	+3.9
Subtotal         4,521,833         4,474,844         4,506,682         +1.1         +0.3         \$481,262,202         \$453,840,185         \$460,814,965         +6.0         +4.4           Amtrak Total         30,186,733         28,716,857         29,550,589         +5.1         +2.2         \$1,891,679,827         \$1,742,991,134         \$1,809,648,336         +8.5         +4.5	63 - Auto Train	259,944	244,252	243,859	+6.4	+6.6	\$68,618,768	\$61,012,324	\$61,064,145	+12.5	+12.4
Amtrak Total 30,186,733 28,716,857 29,550,589 +5.1 +2.2 \$1,891,679,827 \$1,742,991,134 \$1,809,648,336 +8.5 +4.5	Subtotal	4,521,833	4,474,844	4,506,682	+1.1	+0.3	\$481,262,202	\$453,840,185	\$460,814,965	+6.0	+4.4
Amtrak Total 30,186,733 28,716,857 29,550,589 +5.1 +2.2 \$1,891,679,827 \$1,742,991,134 \$1,809,648,336 +8.5 +4.5											
	Amtrak Total	30, 186, 733	28,716,857	29,550,589	+5.1	+2.2	\$1,891,679,827	\$1,742,991,134	\$1,809,648,336	+8.5	+4.5

A - 3.5

#### National Railroad Passenger Corporation (Amtrak)

Financial Performance of Routes - Fully allocated overhead, excluding Depreciation and Interest (see notes below)

September 2010 YTD Route Performance Results Exclude Depreciation and Interest. All numbers are in \$ millions except Passenger Mile and Seat Mile Calculations

Northeast Corridor Trains			Total Costs excl. OPEB's, Capital	Core Contribution /	OPEB's	Contribution /		Fully Allocated	Fully Allocated Contribution /	Fully Allocated Contribution /
Route		Total	Charge and Other	(Loss) excl.	and Other	(Loss) before	Capital	Contribution /	(Loss) per Pass	(Loss) per Seat Mi
Number	Train Name	Revenue	Costs	OPEB's	Costs	Capital Charge	Charge*	(Loss)	Mile (cents)	(cents)
RT01	Acela	\$449.8	\$316.4	\$133.4	\$28.9	\$104.5	n/a	\$104.5	17.1	10.3
RT05	Northeast Regional	\$469.7	\$466.3	\$3.4	\$46.6	(\$43.1)	n/a	(\$43.1)	(3.9)	(18)
RT99	NEC Special Trains	\$0.9	\$1.0	(\$0.1)	\$0.2	(\$0.3)	n/a	(\$0.3)	(25.9)	(5.0)
	Total	\$920.4	\$783.6	\$136.8	\$75.7	\$61.1	n/a	\$61.1	3.6	18

State Supp	oorted and Other		Total Costs excl.	Core Contribution (	OPER's	Contribution (		Fully Allocated	Fully Allocated	Fully Allocated
Route	Train Name	Total Revenue	Charge and Other Costs	(Loss) excl. OPEB's	and Other Costs	(Loss) before Capital Charge	Capital Charge*	Contribution / (Loss)	(Loss) per Pass Mile (cents)	(Loss) per Seat Mile (cents)
RT03	Ethan Allen Express	\$3.5	\$4.8	(\$1.3)	\$0.2	(\$1.5)	n/a	(\$1.5)	(17.2)	(66)
RT04	Vermonter	\$7.8	\$9.4	(\$1.6)	\$0.5	(\$2.0)	n/a	(\$2.0)	(8.0)	(37)
RT07	Maple Leaf	\$23.0	\$28.3	(\$5.3)	\$1.2	(\$6.6)	n/a	(\$6.6)	(5.6)	(29)
RT09	The Downeaster	\$11.1	\$12.1	(\$1.1)	\$0.8	(\$18)	n/a	(\$1.8)	(47)	(16)
RT12	New Haven - Springfield	\$10.6	\$21.0	(\$10.4)	\$2.8	(\$13.2)	n/a	(\$13.2)	(41 1)	(19.2)
RT14	Keystone Service	\$37.0	\$57.9	(\$20.9)	\$5.5	(\$26.4)	n/a	(\$26.4)	(23 1)	(9.0)
RT15	Empire Service	\$38.5	\$60.6	(\$22.0)	\$3.2	(\$25.2)	n/a	(\$25.2)	(20.9)	(6.8)
RT20	Chicago-St Louis	\$26.9	\$35.5	(\$8.6)	\$3.3	(\$11.8)	n/a	(\$11.8)	(11.5)	(5.2)
RT21	Hiawathas	\$20.6	\$28.5	(\$7.9)	\$5.3	(\$13.1)	n/a	(\$13.1)	(20.9)	(7.5)
RT22	Wolverines	\$18.1	\$33.8	(\$15.7)	\$3.0	(\$18.6)	n/a	(\$18.6)	(18 3)	(9.0)
RT23	Hini	\$13.7	\$17.2	(\$3.6)	\$2.0	(\$5.6)	n/a	(\$5.6)	(110)	(47)
RT24	Illinois Zephyr	\$117	\$17.5	(\$5.8)	\$16	(\$7.3)	n/a	(\$7.3)	(21.0)	(7.7)
RT29	Heartland Fiver	\$5.3	\$7.5	(\$2.2)	\$0.3	(\$2.5)	n/a	(\$2.5)	(17.9)	(78)
RT35	Pacific Surfliner	\$80.8	\$106.5	(\$25.8)	\$4.5	(\$30.3)	n/a	(\$30.3)	(14.1)	(43)
RT36	Cascades	\$44.5	\$56.2	(\$11.7)	\$2.3	(\$14.0)	n/a	(\$14.0)	(10.5)	(5.6)
RT37	Capitols	\$52.7	\$65.7	(\$12.9)	\$2.9	(\$15.8)	n/a	(\$15.8)	(15.6)	(43)
RT39	San Joaquins	\$64.7	\$73.2	(\$8.5)	\$2.4	(\$110)	n/a	(\$110)	(7.9)	(3.1)
RT40	Adirondack	\$9.8	\$12.1	(\$2.3)	\$0.5	(\$2.8)	n/a	(\$2.8)	(7.7)	(5.7)
RT41	Blue Water	\$8.9	\$11.7	(\$2.8)	\$1.0	(\$3.8)	n/a	(\$3.8)	(12.1)	(5.2)
RT46	Washington-Lynchburg	\$7.8	\$5.4	\$2.4	\$0.3	\$2 1	n/a	\$2.1	72	37
RT47	Washington-Newport News	\$26.5	\$25.6	\$0.9	\$13	(\$0.3)	n/a	(\$0.3)	(0.4)	(0.2)
RT54	Hoosier State	\$0.8	\$5.3	(\$4.5)	\$0.4	(\$4.9)	nfa	(\$4.9)	(95.2)	(43.2)
RT56	Kansas City-St Louis	\$13.0	\$13.0	\$0.0	\$0.6	(\$0.6)	n/a	(\$0.6)	(18)	(07)
RT57	Pennsylvanian	\$8.9	\$14.4	(\$5.5)	\$0.9	(\$6.3)	n/a	(\$6.3)	(13.1)	(9.1)
RT65	Pere Marquette	\$6.9	\$6.1	\$0.7	\$0.7	\$0.0	n/a	\$0.0	0.3	0.1
RT66	Carolinian	\$21.0	\$20.4	\$0.5	\$0.9	(\$0.3)	n/a	(\$10.3)	(0.4)	(0.3)
RT67	Piedmont	\$4.2	\$4.5	(\$0.3)	\$0.2	(\$0.6)	n/a	(\$0.6)	(4.9)	(2.2)
RT96	Non NEC Special Trains	\$1.3	\$1.8	(\$0.5)	\$0.4	(\$0.9)	n/a	(\$0.9)	(91)	(27 1)
	Total	\$579.7	\$756.1	(\$176.4)	\$48.8	(\$225.2)	n/a	(\$225.2)	(12.3)	(52)

Long Dis	tance Trains		Total Costs excl. OPEB's, Capital	Core Contribution /	OPEB's	Contribution /		Fully Allocated	Fully Allocated Contribution /	Fully Allocated Contribution /
Route Number	Train Name	Total Revenue	Charge and Other Costs	(Loss) excl. OPEB's	and Other Costs	(Loss) before Capital Charge	Capital Charge	Contribution / (Loss)	(Loss) per Pass Mile (cents)	(Loss) per Seat Mile (cents)
RT16	Silver Star	\$32 7	\$78.3	(\$45.6)	\$3.8	(\$49.3)	n/a	(\$49.3)	(23.9)	(15.0)
RT18	Cardinal	\$7.0	\$22.0	(\$15.0)	\$15	(\$16.5)	n/a	(\$16.5)	(38.2)	(21.1)
RT19	Silver Meteor	\$37.6	\$76.6	(\$39.1)	\$3.7	(\$42.8)	n/a	(\$42.8)	(197)	(12.6)
RT25	Empire Builder	\$62.4	\$117.7	(\$55.3)	\$5.6	(\$60.9)	n/a	(\$60.9)	(15.8)	(94)
RT26	Capitol Limited	\$20.2	\$40.3	(\$20.1)	\$2.2	(\$22.3)	n/a	(\$22.3)	(20.6)	(13.9)
RT27	California Zephyr	\$48.3	\$99.7	(\$51.4)	\$4.4	(\$55.8)	n/a	(\$55.8)	(18.4)	(11.1)
RT28	Southwest Chief	\$44.8	\$101.8	(\$57.0)	\$47	(\$617)	n/a	(\$617)	(19.7)	(13 1)
RT30	City of New Orleans	\$18.3	\$39.4	(\$21.1)	\$2.2	(\$23.3)	n/a	(\$23.3)	(21.9)	(13.5)
RT32	Texas Eagle	\$24.4	\$51.0	(\$26.5)	\$2.6	(\$29.1)	n/a	(\$29.1)	(17.5)	(12.2)
RT33	Sunset Limited	\$11.1	\$48.5	(\$37.4)	\$18	(\$39.2)	n/a	(\$39.2)	(50 1)	(23.6)
RT34	Coast Starlight	\$41.2	\$88.3	(\$47.1)	\$3.3	(\$50.4)	n/a	(\$50.4)	(22.4)	(14.0)
RT45	Lake Shore Limited	\$29.3	\$63.6	(\$34.3)	\$3.3	(\$37.6)	n/a	(\$37.6)	(20.2)	(12.2)
RT48	Palmetto	\$16.2	\$30.0	(\$13.8)	\$2.0	(\$15.8)	n/a	(\$15.8)	(18.6)	(97)
RT52	Crescent	\$30.6	\$70.8	(\$40.2)	\$3.5	(\$43.7)	n/a	(\$43.7)	(26.5)	(14.8)
RT63	Auto Train	\$61.7	\$80.2	(\$18.5)	\$2.8	(\$21.2)	n/a	(\$21.2)	(10.1)	(6.6)
	Total	\$485.8	\$1,008.2	(\$522.3)	\$47.3	(\$569.6)	n/a	(\$569.6)	(20.3)	(12.5)
	Total National Train System	£1.096.0	\$2547.0	(\$582.0)	\$171.0	(\$733.7)	0/2	/\$793.71	(11.6)	(5.0)

\* Under Development - will be included once it is completed

Reconciling Items between National Train System	and Consolidated Statement of Operations
Reconcining items between Hatronal Hatroyaten	and consolidated statement of operations

	Revenue	Expense	Net
Total National Train System	\$1,986.0	\$2,719.7	(\$733.7)
Ancillary Customers Freight and Other Customers Depreciation, net	\$330 2 \$168 2 \$0.0	\$280.1 \$128.8 \$593.1	\$50.1 \$39.4 (\$593.1)
Operating Results	\$2,484.4	\$3,721.8	(\$1,237.4)
Interest Expense, net	\$0.0	\$100.9	(\$100.9)
State Capital Payments	\$29.0	\$0.0	\$29.0
Net Results	\$2513.4	\$3,822.7	(\$1,309.3)

Notes: - This report is being produced using the Amtrak Performance Tracking (SAM\_APT) system, which drives costs to all customers, including theight and commuter railroads. This report reflects the information as it existed in SAP at the time is ways produced. Future changes to SAP data may affect the placement of data within this report. - Amtrak does not report depreciation on a route level due to the distortion caused by the sale and leaseback transactions of the late 1990's and early 2000's. Allocating depreciation and interest would unfairly burden routes whose equipment was sold and then leased back. Those transactions caused the value of those assets to increase and therefore their depreciation to increase, which is unrelated to the actual capital cost of that equipment. A synthetic capital charge is under development and will be allocated to routes and included in this report when available.

APP - 5

_	1/4	^
-	Ϋ́	U
		•

Form         Summery         Summery         Form         Proto         Budget         Proto         Proto         Budget         Proto         Bud			Ric	tership			Ticket Revenue					
Mete Synthe         PY00         Budget         PY00         PY00 </th <th></th> <th></th> <th>1</th> <th>1</th> <th>% char</th> <th>ige vs.</th> <th></th> <th></th> <th></th> <th>% char</th> <th>nge vs.</th>			1	1	% char	ige vs.				% char	nge vs.	
1-Aceia         3.21(27)         3.01827         3.021(8)         4.95.         5440 (13.22)         50.0021(4.8)         64.18.24         4.75.         50.021(4.8)         54.02.24(8.8)         54.02         4.82         4.22         4.83           B9. Special Trains         7.463         6.700         7.800         420         4.52         50.08.0307         51.002.000         6.22         4.83         4.81         4.83 <th>NEC Spine</th> <th>FY10</th> <th>FY09</th> <th>Budget</th> <th>FY09</th> <th>Budget</th> <th>FY10</th> <th>FY09</th> <th>Budget</th> <th>FY09</th> <th>Budget</th>	NEC Spine	FY10	FY09	Budget	FY09	Budget	FY10	FY09	Budget	FY09	Budget	
S-Normat Regional         7,1488         6,940,210         4-34         544         5458,107,89         50,47,288,68         4-42         4-38           Boototal         10,375,288         9,440,27         9,909,327         44.3         44.7         5890,307         50,000,408         51,072,000         42,0         52,378,898         55,247,382         52,338,494         42.2         42.8           State Supported and Other Short Distance Control         44,01         47,741         64,013         44,74         45,6         44,01         53,000,408         52,338,494         42.2         42.8           State Supported and Other Short Distance Control         44,04         47,77,77         64,011,800,201         65,004,76         43.3         22.8           Downstar         7,480,71,800,800         12,252,82         47,251         13,02,110         53,002,012         55,000,76         53,002,012         55,002,018         110,01 </td <td>1 - Acela</td> <td>3,218,718</td> <td>3,019,627</td> <td>3,052,167</td> <td>+6.6</td> <td>+5.5</td> <td>\$440,119,294</td> <td>\$409,251,483</td> <td>\$418,947,478</td> <td>+7.5</td> <td>+5.1</td>	1 - Acela	3,218,718	3,019,627	3,052,167	+6.6	+5.5	\$440,119,294	\$409,251,483	\$418,947,478	+7.5	+5.1	
ge.         ge. <td>5 - Northeast Regional</td> <td>7,148,998</td> <td>6,920,610</td> <td>6,846,260</td> <td>+3.3</td> <td>+4.4</td> <td>\$458,105,798</td> <td>\$431,430,679</td> <td>\$437,298,854</td> <td>+6.2</td> <td>+4.8</td>	5 - Northeast Regional	7,148,998	6,920,610	6,846,260	+3.3	+4.4	\$458,105,798	\$431,430,679	\$437,298,854	+6.2	+4.8	
Sub clocal         10,375,289         9,44,027         9,909,527         44.0         44.7         9898,133,389         9841,882,482         9837,316,323         44.9           State Supported and Other Short Distance Control         44,031         44,749         44,774         427         428         52,398,096         52,347,382         52,338,440         422         428           A Vermoniter         60,045         7,4016         76,254         435         413         52,177,074         54,011,000         51,007,416         51,007,416         51,007,416         55,007,416         429         40.6           2 Newsham         729,007,22         723,227,227         55,207,206         55,007,500         55,007,500         55,007,500         55,007,500         55,007,500         55,007,500         55	99 - Special Trains	7,493	5,790	7,900	+29.4	-5.2	\$908,307	\$1,000,499	\$1,072,000	-9.2	-15.3	
State Supported and Other Short Distance Contidues         92.8         <	Subtotal	10,375,209	9,946,027	9,906,327	+4.3	+4.7	\$899,133,399	\$841,682,662	\$857,318,332	+6.8	+4.9	
3. Ehnan Alam         44.031         46.724         42.7         +2.8         52.398.989         52.347.82         52.338.449         +22.         +2.8           Yemonthe         B6.245         74.016         75.424         +15.5         +4.011.139         51.177.97.094         51.02.99.169         51.02.99.169         51.02.99.169         51.02.99.169         51.02.99.169         51.02.99.178         51.02.99.179.118         51.02.99.178         51.02.99.1	State Supported and Other Short Distance	Corridors										
4. Vermoniter         69,246         74,016         75,242         4165         41.46         54.778.747         54.011.93         54.15.043         1911         1911           7. Allamy, Nagar Fails-Toronio         398.43         37.241         32.177.018         58.49.04         58.04.78         43.3         29.2           0. Downsteir         476.453         400.44         472.451         43.9         41.3         58.711.893         58.02.71.418         58.02.77.41         52.167.07.01         52.02.77.31.221         52.15.05.07         52.5.67.93         4.016         +7.2         4.06         53.02.75.13.221         53.17.05.09         53.7.67.63.00 </td <td>3 - Ethan Allen</td> <td>48,031</td> <td>46,748</td> <td>46,724</td> <td>+2.7</td> <td>+2.8</td> <td>\$2,398,998</td> <td>\$2,347,362</td> <td>\$2,338,494</td> <td>+2.2</td> <td>+2.6</td>	3 - Ethan Allen	48,031	46,748	46,724	+2.7	+2.8	\$2,398,998	\$2,347,362	\$2,338,494	+2.2	+2.6	
7. Albeny/Nagare Falls-Toronio         338,430         337,701         +13.8         \$11.3         \$21,197.048         \$19,897,832         +13.1         \$92,197.048         \$19,897,832         +13.3         \$27,197.048         \$19,897,832         +13.3         \$27,197.048         \$19,897,832         +13.4         \$22,197.140         \$80,408,44         >3.28           12. New threen-Springfield         333,446         336,456         326,576         \$11.147         +11.4         \$13,127,212         \$25,100,976         \$25,287,788         +10.6         +13.2         \$25,87,881         +10.6         \$13,127,321         \$25,100,976         \$37,687,481         +11.6         +13.2         \$37,687,481         +10.4         \$33,146,723         \$37,687,481         +10.6         +13.2         \$37,687,481         +10.4         \$33,146,772         \$37,887,481         +11.8         \$31,402,803         \$13,308,703         +16.4         +13.2         \$12,200,806         \$12,204,870         +10.4         \$33,1402,803         \$13,897,703         \$13,897,703         \$13,897,703         \$13,897,703         \$13,897,703         \$13,897,703         \$13,247,616         +10.7         +10.4         +10.5         \$10,000         \$13,897,703         \$13,247,616         +11.1         \$13,897,703         \$13,248,71         +4.5         +10.5	4 - Vermonter	86,245	74,016	75,243	+16.5	+14.6	\$4,778,747	\$4,011,930	\$4,153,043	+19.1	+15.1	
0-Downstar         478.453         440.474         472.451         439         413         90.711805         58.90.478         45.90         58.90.478         45.90         45.	7 - Albany-Niagara Falls-Toronto	386,430	339,434	347,081	+13.8	+11.3	\$21,797,094	\$19,269,166	\$19,967,832	+13.1	+9.2	
12         New New C-Bringfield         333, 469         336, 469         336, 469         336, 469         336, 469         336, 469         336, 469         336, 469         336, 469         336, 469         337, 673, 149         240         742         5         Empression (Pr. A.B)         991, 341         926, 748         941, 887         400         442         337, 673, 580         337, 673, 580         537, 673, 580         537, 673, 580         537, 673, 580         537, 673, 580         537, 673, 580         537, 673, 580         537, 673, 580         537, 674, 542         511, 327, 382         511, 887, 680         411, 81, 897, 680         413, 414         444, 127         444, 127         444, 127         444, 100         550, 646, 654         546, 673, 727         513, 887, 680         515, 624, 661         515, 624, 661         515, 624, 661         513, 624, 661         436, 330           23 - Chicago-Curindy (12, Argnifical Standow)         200, 846         202, 558         205, 646         436	9 - Downeaster	478,463	460,474	472,451	+3.9	+1.3	\$6,711,893	\$6,496,040	\$6,904,794	+3.3	-2.8	
14.         Keyyotone         12.96,838         12.16,788         12.22.282         64.7         64.0         327,731.221         S25,100,786         S25,875,830         11.00         53,755,736         53,755,736         53,755,736         53,755,736         64.1         64.2         53,755,736         53,755,736         53,755,736         64.1         14.4         23,755,736         53,128,773,322         51,181,816,703         64.21         14.3         14.00,830         51,330,613         51,524,660         42.0         42.1           21.         HisepbCarbondlet [1m/564,47]         244,472         444,783         40.0         55,046,976         54,667,77         54,868,471         44.4         45.3         14.00,876         54,667,767         54,667,77         44,77         44.7           23.         Chango-Cambrand         26,468         74,0154         83,6706         0.03         53,027,744         57,130,274         74,7         45,7         45,7         45,7         45,7         45,891,11         45,4         46,4         0.9         53,027,702         52,146,803         52,146,803         52,146,803         52,146,803         52,146,803         52,146,803         52,146,803         52,146,803         52,146,803         52,146,803         52,146,803         53,147,723	12 - New Haven-Springfield	363,458	325,518	311,727	+11.7	+16.6	\$10,277,140	\$9,208,912	\$9,165,372	+11.6	+12.1	
15. Empire (MIRALB)       091, 241       025, 746       941,882       40.0       42.0       537,673,360       537,653,360       537,653,361       42.0         20. Chicago SCL Louis 8, accos haves       782,060       738,231       751,07       44.1<17	14 - Keystone	1,296,838	1,215,785	1,222,962	+6.7	+6.0	\$27,731,221	\$25,105,076	\$25,857,891	+10.5	+7.2	
20: - Cincage_BCL: Louis B. accos Serve;         572, 424         600, 236         518, 377, 352         511, 1327, 352         511, 351, 351, 351, 351, 450         640, 737, 731         611, 732           22.1 Order of controp         104, 468         202, 563, 104, 202, 403         512, 102, 403         512, 102, 403         512, 102, 403         522, 102, 403         522, 112, 412, 7         452           37.1 Candradic         118, 673         118, 673         104, 691         106, 104         113, 227, 252, 127, 703         522, 112, 412, 7         452, 414, 412         441, 412         441, 412         441, 412         441, 412         441, 412         441, 412, 412, 414, 412, 414, 412, 414, 412, 414, 412, 414,	15 - Empire (NYP-ALB)	981,241	925,746	941,883	+6.0	+4.2	\$37,807,261	\$36,755,360	\$37,567,316	+2.9	+0.6	
21: Hawatha         780,060         782,37         751,07         46.1         44.3         514,092,903         513,300,161         513,300,161         513,300,161         513,300,161         513,300,161         513,300,161         513,300,161         513,300,161         513,300,161         513,300,161         513,300,161         513,300,161         513,200,161         513,200,161         513,200,161         513,200,161         513,200,161         513,200,161         513,200,161         513,200,161         513,200,171         44,74         44,70         44,00         55,04,68,27         51,500,41,60         513,200,411         45,8         51,500,41,60         513,200,411         45,8         51,500,41,60         513,200,411         45,8         51,500,41,60         548,971,142         46,4         40,8         53,94,51,06         548,971,142         46,4         40,8         53,94,31,06         43,16         41,51         41,31         <	20 - Chicago-St. Louis (Lincoln Service)	572,424	506.235	518,397	+13.1	+10.4	\$13,324,632	\$11,327,352	\$11,919,520	+17.6	+11.8	
22. Voke wrine         479, 782         444, 127         444, 123         444, 123         444, 123         444, 123         444, 124         444, 124         444, 124         444, 124         444, 124         444, 124         444, 124         444, 124         516, 041, 019         515, 044, 005         515, 044, 005         515, 044, 005         515, 041, 019         515, 044, 005         515, 044, 005         516, 041, 019         515, 044, 005         516, 044, 005         544, 0657, 372         577, 324         77, 220         77, 220         71, 11         156         51         515, 045, 005         544, 057, 323         516, 044, 005         524, 048, 014         165, 016         549, 057, 114         464, 039         53, 045, 070         64, 039         53, 044, 006         523, 044, 106         431, 64         416, 104         416, 104         416, 104         416, 104         416, 104         416, 104         416, 104         416, 104         416, 104         416, 104         416, 104         417, 104         527, 654, 608         523, 044, 007         533, 041, 104         444, 104         444, 104         444, 112         444, 112         444, 112         444, 112         444, 112         444, 112         444, 112         444, 112         444, 112         444, 112         444, 112         444, 112         444, 112         4	21 - Hiawatha	783,060	738,231	751,075	+6.1	+4.3	\$14,092,803	\$13,300,511	\$13,807,603	+6.0	+2.1	
23: OhiogapCarbondHe (ImV/SBUH)         264,934         259.630         255.00         +20         -0.3         57.674.49         57.127.22         57.322.47         +7.7         +4.7           24: OhiogapCuity(12, 2rpn/ICAR Smdburg)         209.646         202.558         209.644         +00         55.045.67         54.657.32         54.989.11         +8.3         +3.0           25: OhioGamCarbonde         2.913.094         2.592.980         2.637.080         +0.9         548.523.433         54.651.08         549.971.142         +6.4         -0.9           36: Caxcades         836.496         140.164         839.896         +13.0         -0.3         527.164.068         522.049.08         523.440.164         83.106         +15.1         -1.3         522.075.04         523.440.85.16         43.2         -5.0           37: San Jangin         97.77.4         4.7         147.16         57.716.447         57.71.64.47         54.71.75         54.70.08         +14.0         +16.7         51.570.943         -         53.336.175         -         +14.94           40: Water         157.708         132.026         +48.12         +44.604         47.207         +48.17         -4.7         54.77.5         57.40.464         +48.12         54.07.77.5         57.40.4	22 - Wolverine	479,782	444,127	444,793	+8.0	+7.9	\$16,909,193	\$15,041,919	\$15,246,605	+12.4	+10.9	
24:       Chenge-Culmery(II: ZeepwirCan Sendary)       209.4e6       202.556       209.444       +3.4       +00       55,045,07       54,057,372       54,073,372       54,073,372       54,073,372       54,073,372       54,073,372       54,073,372       54,073,372       54,073,372       54,073,372       54,073,372       54,073,372       54,073,372       54,073,372       54,073,372       54,073,372       54,074,372       54,074,372       54,074,372       54,074,372       54,074,372       54,074,372       54,074,474       54,074,474       54,074,474       54,074,474       54,074,474       54,074,474       54,074,474       54,074,474       54,074,474       54,074,474       54,074,474       54,074,474       54,074,474       54,074,474	23 - Chicago-Carbondale (Illini/Saluki)	264,934	259,630	265,800	+2.0	-0.3	\$7,674,434	\$7,126,732	\$7,332,247	+7.7	+4.7	
29. Heattind Fyer         81,440         72,664         77,220         411.1         45.8         \$1,000,000         \$1,592,435         \$1,718,659         \$1,522,435         \$1,718,659         \$1,522,435         \$1,652,435         \$1,616,410         \$1,53         \$1,51         \$1,52         \$1,52         \$2,47         \$1,52	24 - Chicago-Quincy (IL Zephyr/Carl Sandburg)	209,466	202,558	209,464	+3.4	+0.0	\$5,045,876	\$4,657,372	\$4,899,117	+8.3	+3.0	
35. Pertific Surfiner       2.61.0, 604       2.592,986       2.807,088       4.08       -0.9       54.68,2333       54.65,1008       54.997,142       4.64       -0.9         36. Cascades       396,049       740,164       898,986       4130       -0.3       527,564,068       520,044,809       524,043,516       +15.1         37. Captol Corridor       1,580,618       158,986       1.602,265       1.2       -1.3       522,872,085       522,190,800       524,093,516       +3.2       -5.0         39. San Joaquin       197,784       929,172       960,239       +5.2       +2.8       533,141.61       527,786,408       521,277       554,77,789       +14.0       +16.8       +11.8       +11.8       98,71,143       54,416,514       +15.5       +15.8       +16.8       +15.8       +16.8       +15.8       +16.8       +16.8       +15.8       +16.8       +15.8       +15.8       +16.8       +15.8       +16.8       +15.8       +16.8       +15.8       +16.8       +16.8       +15.8       +16.8       +17.8       57.650.64       52.04,04.997       52.05,014.897       +6.8       +1.9       +14.2       +14.8       +14.8       +12.8       +12.8       +12.8       +12.8       +12.8       +16.8       +15.9 <td>29 - Heartland Flyer</td> <td>81,749</td> <td>73,564</td> <td>77,220</td> <td>+11.1</td> <td>+5.9</td> <td>\$1,806,780</td> <td>\$1,592,435</td> <td>\$1,718,567</td> <td>+13.5</td> <td>+5.1</td>	29 - Heartland Flyer	81,749	73,564	77,220	+11.1	+5.9	\$1,806,780	\$1,592,435	\$1,718,567	+13.5	+5.1	
38: Caxaces       898,666       740,154       898,966       +150       -0.3       S27,064,060       S20,944,000       S23,943,106       431.6       415.1         37: Capitol Corridor       1,560,619       1,560,619       1,560,619       1,560,619       1,560,619       1,520,621       22,2120,800       S24,040,816       52,940,02,728       +12.7       45.2         40: Adrondack       118,673       104,661       106,164       +13.4       +11.8       S6,068,894       S5,312,772       S5,477,069       +14.0       +14.8         41: Blue Vahar       126,072       -48,162       +161.7       S7,570,043       -       S3,004,097       S24,014,697       +6.8       -1.9         S4: Hoosing Table       30,000       31,384       34,413       7.1       -2.4       S780,048       S7,819,409       S24,014,697       +6.8       -1.9         S4: Hoosing Table       100,870       153,283       +14.4       +12.6       S4,077,755       S3,474,644       +17.8       +13.2         S4: Hoosing Table       203,392       199,444       +2.0       +2.0       +2.6       S4,733,30       S3,274,897       S3,44,738       +24.4       +12.6       S4,070,330,332,716       S14,707,244       S15,178,066       +17.8       +1	35 - Pacific Surfliner	2,613,604	2,592,996	2,637,088	+0.8	-0.9	\$49,523,433	\$46,551,006	\$49,971,142	+6.4	-0.9	
37 - Captiol Corridor       1,589,625       1,692,625       -1.3       32.27,2065       S32,108,09       S24,093,516       +3.2       -5.0         39 - San Joaquin       977,854       929,172       960,239       +5.2       +2.2       S31,341,146       S22,100,809       S24,093,516       +3.2       7.50         39 - San Joaquin       116,673       104,681       106,104       +13.4       +11.8       S6,058,094       S5,312,772       S5,477,096       +14.0       +10.6         41 - Blue Water       157,706       132,851       134,367       +17.7       7,570,943       -       S3,038,176       +14.4         41. Washington-Lynchburg       122,654       150,070       153,328       +14.4       +12.6       54,073,303       S3,274,997       S3,447,554       +24.4       +18.2         56 - Kansa Chy-SL Louis (MO Deve Planner)       172,554       150,070       153,328       +14.4       +12.6       54,073,303       S3,274,997       S3,447,554       +24.4       +18.2         57 - Pennsylvanian       306,107       277,740       202,494       +2.0       +0.5       S4,470,734       S1,198,075       S1,447,154       +4.2       +16.2         57 - Pennsylvanian       306,177       277,740       200,030       <	36 - Cascades	836,499	740,154	838,966	+13.0	-0.3	\$27,564,069	\$20,944,809	\$23,943,106	+31.6	+15.1	
3a - San Joaquin       977,854       928,172       990,239       +5.2       +2.9       S31,41,46       S27,818,823       S29,80,2728       +12.7       +5.2         40 - Adrondack       118,673       104,681       106,104       +13.4       +11.8       \$56,058,094       \$5,312,772       \$5,477,099       +14.0       +16.8         41 - Blue Vater       157,768       132,457       +18.7       +17.7       \$57,0943       -       \$3,080,176       -       +149.4         45 - Washington-Lynchburg       126,072       -       48,192       -4       10       \$25,525,688       \$57,7755       \$742,045       +17.5       -7.3         56 - Kanase Chy-SL Louis (MO Braw Flumer)       177,654       150,070       153,283       +14.4       +12.6       \$4,073,303       \$3,27,4897       \$3,447,536       +24.4       +18.2         57 - Pennsylonian       306,197       277,740       290,303       +11.0       +10.0       \$17,332,708       \$14,707,244       \$15,178,056       +17.4       +4.2       +20.6       \$2,282,147       +3.3       +0.6         61 - Diedmont       306,017       277,740       290,303       +11.0       11.56,873       \$11,80,57       \$14,707,244       \$15,178,0564       +17.9       +14.2	37 - Capitol Corridor	1,580,619	1,599,625	1,602,205	-1.2	-1.3	\$22,872,085	\$22,160,890	\$24,083,516	+3.2	-5.0	
40. Advordack       118,673       104,681       106,104       +13.4       +11.8       56,050,984       \$5,512,722       \$5,477,089       +1.0       +10.8         41 - Blue Water       157,708       132,851       134,367       +17.4       \$4,741,560       \$4,111,375       \$4,165,14       +15.3       \$3,030,176       -       +148.4         42 - Washington-Newport News       468,142       446,604       472,202       +4.8       +10.5       \$5,255,568       \$52,004,907       \$52,014,607       +57.75       \$774,204       +17.5       +73.55         54 - Hoosier State       33,600       31,384       34,113       +7,1       -24       \$56,048,938       \$5,719,045       +17.5       +73.55         55 - Pare Marquette       101,077       103,226       104,893       -1.3       -2.9       \$2,912,077       \$2,812,072       43.8       +17.8       +14.2         65 - Carolinia       308,197       277,740       290,303       +11.0       +10.0       \$17,332,708       \$14,707,244       \$15,178,056       +17.9       +14.2         66 - Carolinia       59,871,803       \$5,178,056       +17.8       +14.2       52,042,047       \$5,264,843       55,766,11       +16.8       +16.9       +17.8       +16.9	39 - San Joaquin	977,834	929,172	950,239	+5.2	+2.9	\$31,341,146	\$27,816,923	\$29,802,728	+12.7	+5.2	
41 - Bue Water       157,708       132,857       134,507       147,4       8,47,41,560       54,111,375       54,4165,141       415.3       415.3       415.3       415.3       416.141       415.3       415.3       415.4       416.17       57,570,943       53,36,175       -       41484         46. Washington-Newport News       468,142       446,60       47,220       4.8       1.0       525,525,588       523,904,997       522,014,897       4.6       1.7       54,700,735       5742,046       417.5       4.75         56. Kansas Chy-St.Louis (MO Rver Runner)       102,392       199,494       202,449       +2.0       40.5       584,453,934       57,919,404       58,095,656       4.11       4.4         65. Deren Marquette       101,907       103,246       104,893       -1.1       71,32,270       52,814,53,34       55,948,843       55,768,117       +14.2         67. Pledmont       59,691       32,937       41,203       +6.5       +3.4       5399,017,545       53,476,45       55,768,117       +16.8       +40.5         69. Spacial Trains       36,068       32,2937       41,203       +6.5       +3.4       5399,017,545       53,476,51       +10.2       +10.2       +10.2       +10.5	40 - Adirondack	118,673	104,681	106,104	+13.4	+11.8	\$6,058,894	\$5,312,772	\$5,477,089	+14.0	+10.6	
46: Washington-Vynchurg       128.072       -       448.142       -       448.142       -       448.142       446.604       472.920       +4.8       -1.0       57.570.943       -       53.036.176       -       44.8         47: Washington-Newport News       33.600       31.384       34.413       +7.1       -2.4       5796.084       S67.775       S74.2045       +17.5       +7.3         56: Kanass Chy-St. Louis (MO Rew Funner)       172.544       150.927       163.283       +14.4       +12.6       S4.63.934       S7.819.404       S2.094.202       +3.3       +0.6         66: Pere Marguette       101.907       103.246       104.989       -1.3       -2.9       S2.912.070       S2.818.294       S2.82.94.22       +3.3       +0.6         67: Piedmont       99.673       68.427       113.071       +46.0       11.7       S1.56.873       S1.178.056       \$56.766.117       +168       +20.5       S9.99.017.548       S3.474.997       S2.026.152       -1.5       +44.4         18: Subtotal       13.86.644       13.022.237       13.404.833       +6.5       +3.4       S9.90.017.548       S345.230.94       S3.17.78       S7.270.843       \$57.950.843       \$57.950.857.950.856       +10.2       +10.0 <tr< td=""><td>41 - Blue Water</td><td>157,709</td><td>132,851</td><td>134,367</td><td>+18.7</td><td>+17.4</td><td>\$4,741,560</td><td>\$4,111,375</td><td>\$4,165,141</td><td>+15.3</td><td>+13.8</td></tr<>	41 - Blue Water	157,709	132,851	134,367	+18.7	+17.4	\$4,741,560	\$4,111,375	\$4,165,141	+15.3	+13.8	
47 - Washington-Newport News       468, 142       446, 640       472, 202       +4.8       1.0       522, 522, 526, 568       523, 904, 997       524, 14, 667       +6.8       +1.7         54 - Hoosier State       33, 600       31, 384       34, 413       +7.1       -2.4       \$796, 098       \$677, 755       \$742, 045       +17.5       +7.3         56 - Manas C, No. State       101, 807       105, 207       152, 204       +4.4       +12.6       \$4,033       \$32, 74.97       \$3,447, 556       +2.4       +18.2         67 - Pennytyanian       203, 92       199, 494       202, 448       +2.0       +0.5       \$8,453, 934       \$7,181, 407       \$8,095, 666       +6.1       +4.4         68 - Carolinia       306, 107       77,740       203, 003       +11.0       \$11, 556, 873       \$1,119, 573       \$18,192, 308       +39.4       -1.0       - </td <td>46 - Washington-Lynchburg</td> <td>126,072</td> <td></td> <td>48,182</td> <td>1.2</td> <td>+161.7</td> <td>\$7,570,943</td> <td>-</td> <td>\$3,036,175</td> <td>•</td> <td>+149.4</td>	46 - Washington-Lynchburg	126,072		48,182	1.2	+161.7	\$7,570,943	-	\$3,036,175	•	+149.4	
SA - HOOSIER State       33,600       31,384       34,413       +7,1       -2,4       5796,094       5577,255       5742,045       +17,5       +7,3         SG - Kanss CRy-S. Louis (MO River Runner)       172,554       150,870       153,283       +14.4       +12.5       54,073,303       53,274,897       53,447,536       +24.4       +18.2         S7 - Pennsylvanian       203,392       199,444       203,392       110.907       102,246       +20.9       50,584,673,035       53,274,897       53,447,536       +24.4       +18.2         GP - Pledmont       306,197       277,740       280,303       +11.0       +10.7       51,566,70       51,178,056       +17.7       +14.2         GP - Pledmont       306,00       32,937       41,230       +93       -12.7       52,381,643       55,766,117       +16.8       +20.5         GP - Start       13,866,804       13,022,237       14,446,33       +93       -12.7       52,381,643       55,764,000       +12.6       +61.         Long Distance       -       -       -       -       -       -       -       -       -       52,282,047       52,206,152       +15.3       +94.         Long Distance       -       -       -	47 - Washington-Newport News	468, 142	446,604	472,920	+4.8	-1.0	\$25, 525, 588	\$23,904,997	\$26,014,687	+6.8	-1.9	
S6       Kansas Cky-S: Louis (MO Rever Runner)       172,654       160,870       153,283       14.4       +12.5       54,073,303       53,274,997       53,447,536       +24.4       +18.2         57       Pennny/vanian       203,392       199,494       202,449       +2.0       +0.5       58,453,934       57,819,404       38,095,656       +0.4       +4.4         68       Carolinian       308,197       277,740       280,303       +11.0       +10.0       \$17,352,708       \$14,707,244       \$15,178,056       +17.9       +14.2         67       Piedmont       99,873       68,427       113,071       +46.0       +11.7       \$1,566,873       \$1,119,673       \$1,892,306       +39.1       +17.7       55,648,443       \$5,948,457       \$5	54 - Hoosier State	33,600	31,384	34,413	+7.1	-2.4	\$796,094	\$677,755	\$742,045	+17.5	+7.3	
57 - Pennsylvanian       203,392       199,494       202,449       +2.0       +0.5       58,453,394       57,619,404       50,095,656       +1.4       +4.4         65 - Pere Marquette       101,907       103,246       104,993       -1.3       -2.9       52,912,070       52,818,294       52,884,202       +3.3       +0.6         66 - Carolinian       306,197       277,740       280,303       +11.0       +10.0       +10.7       51,556,873       \$1,119,673       \$1,992,308       +3.1       -1.7.7         74-B1 - Buses       -       -       -       -       56,947,135       \$54,948,943       \$57,66,117       +16.8       +20.5         96 - Special Trains       36,008       32,937       41,230       +9.3       -12.7       \$23,91,643       \$2,202,704       \$22,021,052       -15.3       +0.4         Subtotal       13,866,804       13,022,237       13,404,633       +6.5       +3.4       \$309,017,549       \$346,230,909       \$367,594,006       +12.2       +10.0         Subtotal       13,866,804       13,022,237       13,404,633       +6.5       +8.7       \$52,91,92.01       \$52,91,92.01       \$52,91,92.01       \$52,91,92.01       \$52,91,92.01       \$52,91,92.01       \$52,91,92.01<	56 - Kansas City-St. Louis (MO River Runner)	172,554	150,870	153,283	+14.4	+12.6	\$4,073,303	\$3,274,897	\$3,447,536	+24.4	+18.2	
66. Pere Marquette         101,807         103,246         104,893         -1.3         -2.9         52,912,070         52,818,294         52,842,202         +3.3         +0.6           68. Carolinian         306,197         277,740         280,303         +11.0         +10.0         \$17,332,708         \$14,707,244         \$15,178,056         +17.9         +14.2           67. Pledmont         98.673         68.427         -         -         -         \$56,947,135         \$56,948,943         \$5,766,117         +16.8         +20.5           96. Special Trains         360,006         32,937         41,230         +9.3         +12.7         \$23,91,643         \$2,202,047         \$2,206,152         -15.3         +44.4           Subtotal         13,866,804         13,022,237         13,404,633         +6.5         +3.4         \$390,017,549         \$346,230,996         \$367,594,060         +12.6         +10.0           10. Cardinal         107.053         108,614         108,372         -1.4         -1.2         \$63,376,560         \$63,64,295         \$66,512,600         +0.2         -2.1           19. Silver Meteor         352,286         330,734         322,441         +6.5         +8.9         \$352,718,21         \$33,82640,978	57 - Pennsylvanian	203, 392	199,484	202,449	+2.0	+0.5	\$8,453,934	\$7,819,404	\$8,095,656	+8.1	+4.4	
66. Carolinian       306,197       277,740       280,303       +11.0       +10.0       \$17,352,706       \$14,707,244       \$15,178,056       +17.9       +14.2         67. Piedmont       99,873       68,427       113,071       +46.0       -1.7       \$1,566,873       \$1,119,573       \$1,992,306       +39.1       -17.7         7.481- Buses       -       -       -       -       56,947,135       \$2,920,47       \$2,206,152       -15.3       +84.4         Subtotal       13,866,804       13,022,237       13,404,633       +6.5       +3.4       \$390,017,548       \$346,230,996       \$367,594,000       +12.6       +6.1         Long Distance       -       -       1.0       \$63,075,560       \$63,64,295       \$66,512,00       +0.2       +2.1       +10.0         19. Skiver Star       392,666       371,235       362,166       +6.0       +87       \$529,056,402       \$527,103,492       \$527,103,206       +10.2       +10.0         19. Skiver Meteor       353,493       515,444       522,467       +3.5       +2.1       \$56,490,978       \$33,312,724       +8.1       +59       56       +57,740,77       48.4       +59       535,271,827       538,493,550,56,490       +0.2       -2.4	65 - Pere Marquette	101,907	103,246	104,993	-1.3	-2.9	\$2,912,070	\$2,818,294	\$2,894,202	+3.3	+0.6	
67 - Piedmont       99,873       68,427       113,071       +46.0       -1.7       \$1,566,873       \$1,119,573       \$1,692,308       +39.1       -1.7.7         74.B1 Buses       -       -       -       \$6,947,135       \$5,948,843       \$5,766,117       +16.8       +20.5         96 - Special Trains       36,008       32,937       13,404,633       +6.5       +3.4       \$390,017,549       \$346,230,996       \$367,594,000       +12.6       +6.1         Long Distance       -       -       363,766,603       \$2,937,41,230       96.2       -1.4       -1.2       \$2,905,402       \$27,034,942       \$27,103,296       +10.2       +10.0         18 - Cardinal       107,053       108,614       108,372       -1.4       -1.2       \$6,376,560       \$6,364,295       \$6,512,600       +0.2       -2.1         19 - Silver Meteor       352,266       330,734       323,441       +6.5       +8.9       \$35,271,821       \$32,640,978       \$33,312,724       +8.1       +5.9         26 - Capitol Ltd.       218,956       119,861       121,946       +1.7       +3.3       \$54,064,861       \$59,956,490       +0.2       -2.4         27 - California Zephyr       377,876       345,558       354,413	66 - Carolinian	308,197	277,740	280,303	+11.0	+10.0	\$17,332,708	\$14,707,244	\$15,178,055	+17.9	+14.2	
74-81 - Buses            S6, 947, 135       \$5, 948, 843       \$5, 766, 117       +16.8       +20.5         96 - Special Trains       36,006       32,937       41,230       +9.3       .12.7       \$2, 381,643       \$2, 282,047       \$2, 206,152       -15.3       +84.4         Subtotal       13,866,80       13,022,237       13,404,633       46.5       +3.4       \$390,017,549       \$346,230,996       \$367,594,000       +12.6       +10.0         Long Distance           \$29,905,402       \$27,034,942       \$27,103,266       +10.2       +10.0         16 - Silver Star       393,586       371,235       362,156       +6.0       +8.7       \$29,905,402       \$27,034,942       \$27,103,266       +10.2       -2.1         19 - Silver Meteor       352,286       330,734       323,41       +6.5       +8.9       \$35,271,821       \$32,640,978       \$33,312,724       +8.1       +5.9         26 - Capitol Ltd.       218,956       515,444       522,467       +3.5       +2.1       \$58,47,763       \$38,078,674       \$540,930,723       +13.1       +6.9         27 - Califonin Zephyr       37,7767       345,556 <th< td=""><td>67 - Piedmont</td><td>99,873</td><td>68,427</td><td>113,071</td><td>+46.0</td><td>-11.7</td><td>\$1,556,873</td><td>\$1,119,573</td><td>\$1,892,308</td><td>+39.1</td><td>-17.7</td></th<>	67 - Piedmont	99,873	68,427	113,071	+46.0	-11.7	\$1,556,873	\$1,119,573	\$1,892,308	+39.1	-17.7	
96 - Special Trains       36,008       32,937       41,230       +9.3       -12.7       \$2,391,643       \$2,622,047       \$2,220,152       -15.3       +9.4         Subtotal       13,866,804       13,022,237       13,404,633       +6.5       +3.4       \$390,017,549       \$346,230,996       \$3367,594,060       +12.6       +6.1         Long Distance	74-81 - Buses			-	•	-	\$6,947,135	\$5,948,843	\$5,766,117	+16.8	+20.5	
Subtotal         13,866,804         13,022,237         13,404,833         +6.5         +3.4         \$390,017,549         \$346,230,996         \$367,594,060         +1.2.6         +4.6.1           Long Distance	96 - Special Trains	36,008	32,937	41,230	+9.3	-12.7	\$2,391,643	\$2,822,047	\$2,206,152	-15.3	+8.4	
Long Distance           16 - Silver Star         393,586         371,235         362,156         +6.0         +8.7         \$29,805,402         \$27,034,942         \$27,103,266         +10.2         +10.0           18 - Cardinal         107,053         108,614         108,372         -1.4         -1.2         \$6,375,560         \$6,512,600         +0.2         -2.1           19 - Silver Meteor         352,286         330,734         323,441         +6.5         +8.9         \$35,271,821         \$32,640,978         \$33,312,724         +8.1         +5.9           25 - Emptire Builder         533,483         515,444         522,467         +3.5         +2.1         \$58,497,143         \$54,064,861         \$59,956,400         +8.2         -2.4           26 - Capitol Ltd.         218,956         215,371         211,946         +1.7         +3.3         \$18,578,926         \$17,581,767         \$18,043,926         +5.7         +3.0           27 - California Zephyr         377,676         346,568         354,413         +9.4         +6.6         \$43,764,763         \$38,078,674         \$40,930,723         +13.1         +5.9           28 - Southwest Chief         342,403         318,025         317,042         +7.7         +8.0         \$41,604,705	Subtotal	13,866,804	13,022,237	13,404,633	+6.5	+3.4	\$390,017,549	\$346,230,996	\$367,594,060	+12.6	+6.1	
16 - Silver Star       393,586       371,235       362,166       +6.0       +8.7       \$29,905,402       \$27,703,424       \$27,703,266       +10.0       ±10.0         18 - Cardinal       107,055       108,614       108,372       -1.4       -1.2       \$6,375,560       \$6,364,295       \$6,512,600       +0.2       -2.1         19 - Silver Meteor       533,493       515,444       522,467       +3.5       +2.1       \$56,464,1821       \$53,2640,978       \$33,312,72       +8.9       \$35,271,821       \$32,640,978       \$33,312,724       +8.1       +5.9         26 - Capitol Ltd.       218,956       215,371       211,946       +1.7       +3.3       \$18,678,926       \$17,581,767       \$18,043,926       +5.7       +3.0         27 - California Zephyr       377,676       345,556       354,413       +9.4       +6.6       \$43,764,763       \$38,033,503       \$39,737,942       +9.4       +4.7         20 - Chip of New Orleans       229,270       196,656       194,344       +16.6       +17.9       \$17,246,552       \$14,976,461       \$15,083,315       +15.2       +11.4         21 - Texas Eagle       287,164       260,467       256,603       +10.2       +11.9       \$22,72,084       \$8,517,522       +20.4	Long Distance											
18 - Cardinal       107,053       108,614       108,372       -1.4       -1.2       \$63,75,660       \$6,364,285       \$6,51,2600       +0.2       -2.1         19 - Silver Meteor       352,286       330,734       323,441       +6.5       +8.9       \$35,271,821       \$32,640,979       \$33,312,724       +8.1       +5.9         25 - Empire Builder       533,483       515,444       52,2467       +3.5       +2.1       \$56,477,143       \$56,406,861       \$59,956,400       +8.2       -2.4         26 - Captol Ltd.       218,956       216,371       211,946       +1.7       +3.3       \$18,578,926       \$17,581,767       \$18,043,926       +5.7       +3.0         27 - California Zephyr       377,876       346,558       354,413       +9.4       +6.6       \$43,754,763       \$38,679,674       \$40,930,723       +13.1       +6.9         28 - Southwest Chief       342,403       318,025       317,042       +7.7       +6.0       \$41,647,705       \$39,679,641       \$15,083,315       +15.2       +14.4       52       211,277       \$20,336,044       +15.2       +14.4       53       531,976,413       \$54,093,03       \$39,737,942       +9.4       +17.9       \$32,520,16       \$18,721,777       \$20,336,044       +15.2 </td <td>16 - Silver Star</td> <td>393,586</td> <td>371,235</td> <td>362,156</td> <td>+6.0</td> <td>+8.7</td> <td>\$29,805,402</td> <td>\$27,034,942</td> <td>\$27,103,266</td> <td>+10.2</td> <td>+10.0</td>	16 - Silver Star	393,586	371,235	362,156	+6.0	+8.7	\$29,805,402	\$27,034,942	\$27,103,266	+10.2	+10.0	
19 - Silver Meteor       352,286       330,734       323,441       46.5       +8.9       S35,271,821       S32,240,978       S33,312,724       48.1       45.9         25 - Empire Builder       533,493       516,444       524,667       +3.5       +2.1       \$56,407,143       \$54,064,861       \$59,956,490       +2.2       24         26 - Capitol Ltd.       218,956       215,371       211,946       +1.7       +3.3       \$18,578,926       \$17,581,767       \$18,043,326       +5.7       +3.0         27 - California Zephyr       377,876       345,558       354,413       +9.4       +6.6       \$43,754,763       \$38,679,574       \$40,930,723       +13.1       +6.9         28 - Southwest Chief       342,403       318,025       317,042       +7.7       +8.0       \$41,604,705       \$38,033,503       \$39,737,942       +9.4       +4.7         30 - City of New Orleans       229,270       196,659       194,334       +16.6       +17.9       \$17,246,582       \$14,976,461       \$15,083,315       +15.2       +11.4         33 - Sunset Ltd.       91,654       787,75       78,064       +10.2       +11.9       \$22,72,016       \$19,727,773       \$33,346,462       +14.6       +11.5         33 - Sunset Ltd.	18 - Cardinal	107,053	108,614	108,372	-1.4	-1.2	\$6,375,560	\$6,364,295	\$6,512,600	+0.2	-2.1	
25. Empire Builder       533,493       515,444       522,467       +3.5       +2.1       \$58,497,143       \$54,064,681       \$59,956,490       +8.2       -2.4         26. Capitol Ltd.       218,956       215,371       211,946       +1.7       +3.3       \$18,578,926       \$17,581,767       \$18,043,926       +5.7       +3.0         27. Californin Zephyr       377,876       345,556       354,413       +9.4       +6.6       \$43,764,763       \$38,073,6926       \$54,094,681       \$54,976,474       \$54,0930,723       +13.1       +6.9         29. Southwest Chief       342,403       318,025       317,042       +7.7       +9.0       \$41,604,705       \$38,033,503       \$39,737,942       +9.4       +4.7         30. City of New Orleans       229,270       196,655       194,394       +16.6       +17.9       \$17,246,582       \$14,976,481       \$15,063,315       +15.2       +14.4         32. Taxas Eagle       297,164       260,467       256,603       +10.2       +11.9       \$22,72,084       \$8,517,522       +20.4       +11.9         33. Sunset Ltd.       91,894       442,05       432,565       429,456       +2.7       +3.4       \$37,404,114       \$32,2637,793       \$33,544,620       +14.6       +11.5	19 - Silver Meteor	352,286	330,734	323,441	+6.5	+8.9	\$35,271,821	\$32,640,978	\$33,312,724	+8.1	+5.9	
26 - Capital Ltd.       218,956       215,371       211,946       +1.7       +3.3       \$18,578,926       \$17,581,677       \$18,043,926       +5.7       +3.0         27 - California Zephyr       377,876       345,558       354,413       +9.4       +6.6       \$43,754,763       \$38,679,674       \$40,930,723       +13.1       +6.9         28 - Southwest Chief       342,403       318,025       317,042       +7.7       +8.0       \$41,604,705       \$38,033,503       \$39,737,942       +9.4       +4.7         30 - City of New Orleans       229,701       196,655       194,384       +16.6       +17.9       \$17,248,582       \$14,976,461       \$15,083,315       +15.2       +14.4         32 - Texas Eagle       297,164       260,467       256,603       +10.2       +11.9       \$22,728,016       \$19,721,777       \$20,336,044       +15.2       +11.8         33 - Sunset Ltd.       91,884       78,775       78,054       +16.4       +17.5       \$89,82,415       \$8,617,522       +20.4       +17.0         34 - Coast Starlight       444,205       432,566       429,456       +2.7       +3.4       \$37,404,114       \$32,697,605       \$22,978,605       \$22,978,605       \$22,978,605       \$22,978,605       \$22,987,606	25 - Empire Builder	533,493	515,444	522,467	+3.5	+2.1	\$58,497,143	\$54,064,861	\$59,956,490	+8.2	-2.4	
27 - California Zephyr       377,676       346,568       354,413       49.4       +6.6       \$43,754,763       \$58,679,674       \$40,930,723       \$113,1       \$45,9         28 - Southwest Chief       342,403       318,025       317,042       +7,7       +8.0       \$41,604,705       \$338,033,503       \$39,737,942       \$49.4       +4.7         30 - City of New Orleans       229,701       196,6651       194,348       +16.6       +17.9       \$17,246,552       \$14,976,461       \$15,093,3153       \$15,093,315       +15.2       +14.4         32 - Texas Eagle       287,164       260,467       256,603       +10.2       +11.9       \$22,728,016       \$19,721,777       \$20,336,044       +15.2       +11.8         33 - Sunset Ltd.       91,684       78,775       76,054       +16.4       +17.5       \$89,62,415       \$8,276,298       \$89,517,522       +20.4       +17.0         34 - Coast Starlight       444,205       432,666       429,455       +2.7       +3.4       \$37,404,114       \$32,697,793       \$33,544,620       +14.6       +17.0         34 - Stab       364,460       344,656       351,116       +9.0       +3.8       \$27,529,698       \$23,978,505       \$25,994,764       +14.8       +5.9	26 - Capitol Ltd.	218,956	215,371	211,946	+1.7	+3.3	\$18,578,926	\$17,581,767	\$18,043,926	+5.7	+3.0	
28 - Southwest Chief       342,403       318,025       317,042       +7.7       +8.0       \$41,604,705       \$38,033,603       \$59,73,7942       +4.4       +4.7         30 - City of New Orleans       229,270       196,659       194,384       +16.6       +17.9       \$17,248,582       \$14,976,461       \$15,083,315       +15.2       +14.4         32 - Texas Eagle       287,164       260,667       256,603       +10.2       +11.9       \$527,220,016       \$19,721,777       \$20,336,044       +15.2       +11.8         33 - Sunse Ltd.       91,684       78,775       78,054       +16.4       +17.5       \$89,802,415       \$88,272,084       \$88,517,522       +20.4       +17.0         34 - Coast Starlight       444,205       432,665       429,456       +2.7       +3.4       \$37,404,114       \$32,637,793       \$33,544,620       +14.6       +11.5         45 - Lake Shore Ltd.       364,460       334,456       551,115       +9.0       +3.8       \$27,529,698       \$23,978,505       \$25,994,764       +14.8       +5.2         25 - Crescent       298,898       286,576       280,941       +4.2       +6.3       \$28,700,727       \$26,498,509       \$25,364,652       +9.3       +8.9         63 - Auto Train <td>27 - California Zephyr</td> <td>377,876</td> <td>345,558</td> <td>354,413</td> <td>+9.4</td> <td>+6.6</td> <td>\$43,754,763</td> <td>\$38,679,674</td> <td>\$40,930,723</td> <td>+13.1</td> <td>+6.9</td>	27 - California Zephyr	377,876	345,558	354,413	+9.4	+6.6	\$43,754,763	\$38,679,674	\$40,930,723	+13.1	+6.9	
30 - City of New Orleans       229,270       196,659       194,384       +16.5       +17.9       \$17,246,582       \$14,976,481       \$15,083,315       +15.2       +14.4         32 - Texas Eagle       297,164       260,467       256,603       +10.2       +11.9       \$22,720,016       \$19,724,777       \$20,336,044       +15.2       +11.8         33 - Sunset Ltd.       91,884       78,75       78,064       +16.4       +17.5       \$59,962,415       \$8,272,084       \$8,517,522       +20.4       +11.9         34 - Coast Starlight       444,205       432,565       429,456       +2.7       +3.4       \$37,404,114       \$32,637,793       \$33,544,620       +14.6       +11.5         45 - Lake Shore Ltd.       364,460       334,466       351,116       +9.0       +3.8       \$27,629,688       \$23,978,505       \$25,984,764       +14.6       +15.9         48 - Palmetto       198,468       171,316       167,606       +10.6       +13.0       \$15,365,992       \$12,479,621       \$12,681,727       +23.1       +21.2         63 - Auto Train       244,252       232,955       231,892       +4.8       +5.3       \$61,012,324       \$56,569,807       \$56,084,904       +4.1       +16.6         Subtotal       <	28 - Southwest Chief	342,403	318,025	317,042	+7.7	+8.0	\$41,604,705	\$38,033,503	\$39,737,942	+9.4	+4.7	
32 - Texas Eagle       287,164       260,667       256,603       +10.2       +11.9       \$522,728,016       \$19,721,777       \$520,336,044       +15.2       +11.8         33 - Sunset Ltd.       91,684       78,775       78,054       +16.4       +17.5       \$9,962,415       \$8,277,98       \$89,517,552       +20.4       +11.9         34 - Coast Starlight       444,205       432,566       429,456       +27.7       +3.4       \$37,404,114       \$32,697,793       \$33,544,260       +14.6       +11.5         45 - Lake Shore Ltd.       364,460       334,456       351,116       +9.0       +3.8       \$27,752,9688       \$22,97,9050       \$25,994,764       +14.8       +5.9         48 - Palmetto       189,468       171,316       167,606       +10.6       +13.0       \$15,365,992       \$12,479,621       \$12,681,727       +23.1       +21.2         52 - Crescent       298,688       286,576       280,941       +4.2       +6.3       \$26,700,727       \$26,498,609       \$26,384,652       +8.3       +8.9         63 - Auto Train       244,252       232,955       231,892       +4.8       +5.3       \$61,012,324       \$58,589,8972       \$80,063,935       +4.1       +1.6         Subtotal       4,474,844	30 - City of New Orleans	229,270	196,659	194,384	+16.6	+17.9	\$17,248,582	\$14,976,461	\$15,083,315	+15.2	+14.4	
33 - Sunset Ltd.       91,684       78,75       78,054       416.       +17.5       \$9,692,415       \$8,272,084       \$9,75,722       +20.4       +17.0         34 - Coast Starlight       444,205       432,565       429,456       +2.7       +3.4       \$37,404,114       \$32,697,793       \$33,544,620       +14.6       +11.6         45 - Lake Shore Ltd.       364,460       334,466       361,116       +9.0       +3.8       \$27,629,688       \$229,978,505       \$25,994,744       +14.8       +15.9         48 - Palmetto       189,468       171,316       167,606       +10.6       +13.0       \$15,365,982       \$12,479,621       \$12,681,727       +23.1       +21.2         52 - Crescent       298,688       286,576       280,941       +4.2       +6.3       \$28,700,727       \$26,498,509       \$26,384,652       +8.9       +8.9         63 - Auto Train       244,252       232,955       23,1892       +4.8       +5.3       \$61,012,324       \$56,589,872       \$\$60,063,935       +4.1       +1.6         Subtotal       4,474,844       4,198,750       4,189,887       +6.5       +6.8       \$453,840,185       \$411,554,642       \$428,184,250       +10.3       +6.0         Amtrak Total	32 - Texas Eagle	287,164	260,467	256,603	+10.2	+11.9	\$22,728,016	\$19,721,777	\$20,336,044	+15.2	+11.8	
34 - Coast Starlight       444.206       432.666       429.456       +2.7       +3.4       \$37.404.114       \$32.637.793       \$33.544.620       +14.6       +11.5         45 - Lake Shore Ltd.       364.460       334.466       351.116       +9.0       +3.8       \$27.529.698       \$23.978.505       \$25.994.764       +14.8       +5.9         48 - Palmetto       189.468       171.316       167.606       +10.6       +13.0       \$15.696.992       \$12.479.621       \$12.881.727       +23.1       +21.2         52 - Crescent       299.689       286.576       280.941       +4.2       +6.3       \$28.700.727       \$26.499.509       \$25.364.652       +4.1       +1.6         Subtotal       244.252       232.955       231.982       +4.8       +5.3       \$61.012.324       \$58.509.972       \$80.063.935       +4.1       +1.6         Subtotal       4,474.844       4,198.750       4,189.887       +6.6       +6.8       \$453.840.185       \$411.55.4642       \$428.842.50       +10.3       +6.0         Amtrak Total       28.716.857       27.167.014       27.500.847       +5.7       +4.4       \$1,742.991.134       \$1,599.468.300       \$1,653.096.642       +9.0       +5.4	33 - Sunset Ltd.	91,684	78,775	78,054	+16.4	+17.5	\$9,962,415	\$8,272,084	\$8,517,522	+20.4	+17.0	
46 - Lake Shore Ltd.       364,460       334,466       351,116       +90,       +3.8       \$27,529,698       \$22,978,605       \$25,994,764       +14.8       +5.9         48 - Palmetto       189,468       171,316       167,606       +10.6       +13.0       \$15,365,992       \$12,479,621       \$12,681,727       +23.1       +21.2         52 - Crescent       298,688       298,676       280,941       +4.2       +6.3       \$28,700,727       \$254,584,652       +8.9       +8.9         63 - Auto Train       244,252       232,955       231,892       +4.8       +5.3       \$61,012,324       \$56,569,072       \$60,063,935       +4.1       +1.6         Subtotal       4,474,844       4,198,750       4,189,887       +6.6       +6.8       \$453,840,185       \$411,554,642       \$428,184,250       +10.3       +6.0         Amtrak Total       28,716,857       27,167,014       27,500,847       +5.7       +4.4       \$1,742,991,134       \$1,699,468,300       \$1,663,096,642       +9.0       +5.4	34 - Coast Starlight	444,205	432,565	429,455	+2.7	+3.4	\$37,404,114	\$32,637,793	\$33,544,620	+14.6	+11.5	
48 - Palmetto       189,468       171,316       167,606       +10.6       +13.0       \$15,365,992       \$12,479,621       \$12,479,621       \$12,479,621       \$12,471,421       +21.2         52 - Crescent       298,689       286,576       280,941       +4.2       +6.3       \$28,700,727       \$26,498,509       \$26,364,652       +9.3       +8.9         63 - Auto Train       244,252       232,955       231,892       +4.8       +5.3       \$61,012,324       \$56,569,872       \$60,063,936       +4.1       +1.6         Subtotal       4,474,844       4,198,750       4,189,887       +6.6       +6.8       \$453,840,185       \$411,554,642       \$428,184,250       +10.3       +6.0         Mmtrak Total       28,716,857       27,167,014       27,500,847       +5.7       +4.4       \$1,742,991,134       \$1,599,468,300       \$1,653,096,642       +9.0       +5.4	45 - Lake Shore Ltd.	364,460	334,456	351,115	+9.0	+3.8	\$27,529,698	\$23,978,505	\$25,994,764	+14.8	+5.9	
52 - Crescent       298,688       286,576       280,941       +4.2       +6.3       \$28,700,727       \$28,498,509       \$26,384,652       +8.3       +8.9         63 - Auto Train       244,252       232,955       231,892       +4.8       +5.3       \$61,012,324       \$56,589,872       \$60,063,935       +4.1       +1.6         Subtotal       4,474,844       4,198,750       4,189,887       +6.6       +6.8       \$453,840,185       \$411,554,642       \$428,184,250       +10.3       +6.0         Horizon       4,1474,844       4,198,750       4,189,887       +6.6       +6.8       \$453,840,185       \$411,554,642       \$428,184,250       +10.3       +6.0         Horizon       4,1474,844       4,198,750       4,189,887       +6.6       +6.8       \$453,840,185       \$411,554,642       \$428,184,250       +10.3       +6.0         Horizon       Horizon       4,198,750       4,189,887       +6.6       +6.8       \$453,840,185       \$411,554,642       \$428,184,250       +10.3       +6.0         Horizon       Horizo	48 - Palmetto	189,468	171,316	167,606	+10.6	+13.0	\$15,365,992	\$12,479,621	\$12,681,727	+23.1	+21.2	
63 - Auto Train         244,252         232,955         231,892         +4.8         +5.3         \$61,012,324         \$55,569,672         \$60,063,935         +4.1         +1.6           Subtotal         4,474,844         4,198,750         4,189,887         +6.6         +6.8         \$453,840,185         \$411,554,642         \$428,184,250         +10.3         +6.0           Amtrak Total         28,716,857         27,167,014         27,500,847         +5.7         +4.4         \$1,742,991,134         \$1,599,468,300         \$1,653,096,642         +9.0         +5.4	52 - Crescent	298,688	286,576	280,941	+4.2	+6.3	\$28,700,727	\$26,498,509	\$26,364,652	+8.3	+8.9	
Subtotal         4,474,844         4,198,750         4,189,887         +6.6         +6.8         \$453,840,185         \$411,554,642         \$428,184,250         +10.3         +6.0           Amtrak Total         28,716,857         27,167,014         27,500,847         +5.7         +4.4         \$1,742,991,134         \$1,599,468,300         \$1,653,096,642         +9.0         +5.4	63 - Auto Train	244,252	232,955	231,892	+4.8	+5.3	\$61,012,324	\$58,589,872	\$60,063,935	+4.1	+1.6	
Amtrak Total 28,716,857 27,167,014 27,500,847 +5.7 +4.4 \$1,742,991,134 \$1,599,468,300 \$1,653,096,642 +9.0 +5.4	Subtotal	4,474,844	4,198,750	4,189,887	+6.6	+6.8	\$453,840,185	\$411,554,642	\$428,184,250	+10.3	+6.0	
Amtrak Total 28,716,857 27,167,014 27,500,847 +5.7 +4.4 \$1,742,991,134 \$1,599,468,300 \$1,653,096,642 +9.0 +5.4		1										
	Amtrak Total	28,716,857	27,167,014	27,500,847	+5.7	+4.4	\$1,742,991,134	\$1,599,468,300	\$1,653,096,642	+9.0	+5.4	

A - 3.5

#### National Railroad Passenger Corporation (Amtrak)

Financial Performance of Routes - Fully allocated overhead, excluding Depreciation and Interest (see notes below)

September 2009 YTD - Final Audited Route Performance Results Exclude Depreciation and Interest. All numbers are in \$ millions except Passenger Mile and Seat Mile Calculations.

Northeast C	orridor Trains		Total Costs excl. OPEB's, Capital	Core Contribution /	OPEB's	Contribution /		Fully Allocated	Fully Allocated Contribution /	Fully Allocated Contribution /
Route	0. 1900	Total	Charge and Other	(Loss) excl.	and Other	(Loss) before	Capital	Contribution /	(Loss) per Pass	(Loss) per Seat Mile
Number	Train Name	Revenue	Costs	OPEB's	Costs	Capital Charge	Charge*	(Loss)	Mile (cents)	(cents)
RT01	Acela	\$416.8	\$334.3	\$82.5	\$22.6	\$59.9	n/a	\$59.9	10.5	58
RT05	Northeast Regional	\$443.4	\$461.1	(\$7.7)	\$25.8	(\$33.5)	n/a	(\$33.5)	(3.2)	(14)
RT99	NEC Special Trains	\$1.3	\$2.6	(\$1.2)	\$0.3	(\$1.5)	n/a	(\$1.5)	(67.2)	(25.2)
	Total	\$861.6	\$788.0	\$73.6	\$48.7	\$24.8	nía	\$24.8	1.5	07

State Supp	orted and Other		Total Costs excl.	Core		0		Fully	Fully Allocated	Fully Allocated
Route	ance Corridor Trains	Total	Charge and Other	(Loss) excl.	and Other	(Loss) before	Capital	Contribution /	(Loss) per Pass	(Loss) per Seat Mile
Number	Train Name	Revenue	Costs	UPEB S	Costs	Capital Charge	Charge	(LOSS)	Mile (cents)	(Cents)
RTUS	Einan Allen Exploss	\$3.0	34 5	(\$1.0)	50.2	(012)	nu d	(01 L) (01 E)	(7.0)	12.01
R104	vermonter	\$6.9	201	191.2	50.5	(\$1.5)	nia	120 11	10.01	(30)
RTU/	Maple Lear	\$20.3	\$284	(58 1)	510	(39 1)	nea	(59.1)	13.01	(42)
RTU9	The Downeaster	310.0	\$110	(\$1.2	50.5	(217)	n/a	(\$177)	1401	(20.0)
RI12	New Haven - Springheid	\$9.5	\$215	(\$12.1	10	(\$13.7)	ni a	(\$137)	(40.0)	(20 3)
RT14	Keystone Service	\$33.5	\$60.3	(\$26.9)	\$3.0	(\$29.8)	n/a	(8 674)	(27.8)	(10.0)
RT15	Empire Service	\$37.6	\$53.8	(\$22.3)	52.1	(\$24.4)	nra	(\$24.4)	(21.3)	(0.7)
RT20	Chicago-St Louis	\$21.4	\$37.0	(\$157	\$1.2	(\$16.9)	nra	(\$16.9)	(18.5)	(8.3)
RT21	Hiawathas	\$19.9	\$33.9	(\$14.0	\$13	(\$15.3)	nra	(\$15.3)	(25.9)	(10.0)
RT22	Wolvennes	\$16.2	\$32.9	(\$167	\$1.3	(\$18.0)	n/a	(\$18.0)	(19.1)	(10.0)
RT23	Illini	\$10.4	\$18.4	(\$7.9)	\$0.7	(\$8.6)	n/a	(\$8.6)	(17.5)	(8.4)
RT24	Illinois Zephyr	\$8.3	\$16.2	(\$7.9)	\$0.6	(\$8.5)	nía	(\$8.5)	(24.7)	(9.9)
RT29	Heartland Flyer	\$4.7	\$6.5	(\$1.8)	\$0.2	(\$2.0)	n/a	(\$2.0)	(15.9)	(6.4)
RT35	Pacific Surfliner	\$76.2	\$104.0	(\$27.8)	\$3.5	(\$31.3)	n/a	(\$31.3)	(14.6)	(4.6)
RT36	Cascades	\$41.5	\$48.9	(\$7.4	\$1.5	(\$8.9)	n/a	(\$8.9)	(78)	(4.0)
RT37	Capitols	\$47.0	\$71.9	(\$24.9)	\$2.4	(\$27.3)	n/a	(\$27.3)	(26.7)	(7.1)
RT39	San Joaquins	\$59.8	\$64.1	(\$4.3)	\$1.8	(\$6 1)	n/a	(\$6 1)	(4.6)	(16)
RT40	Adirondack	\$9.9	\$10.8	(\$1.0)	\$0.3	(\$1.3)	n/a	(\$13)	(42)	(2.7)
RT41	Blue Water	\$9.1	\$119	(\$2.8)	\$0.5	(\$3.3)	n/a	(\$3.3)	(12.2)	(6.1)
RT46	Washington-Lynchburg	\$0.0	\$0.0	(\$0.0)	\$0.0	(\$0.0)	n/a	(\$0.0)		
RT47	Washington-Newport News	\$24.8	\$23.9	\$0.9	\$0.9	\$0.0	n/a	\$0.0	0.0	0.0
RT54	Hoosier State	\$0.7	\$3.9	(\$3.2)	\$0.2	(\$3.3)	n/a	(\$3.3)	(68.6)	(31.4)
RT56	Kansas City-St Louis	\$11.5	\$11.7	(\$0.2)	\$0.4	(\$0.6)	n/a	(\$0.6)	(2.3)	(0.9)
RT57	Pennsylvanian	\$8.3	\$13.2	(\$4.9)	\$0.5	(\$5.5)	n/a	(\$5.5)	(11.6)	(8.5)
RT65	Pere Marguette	\$5.3	\$6.4	(\$1.1	\$0.3	(\$1.4)	n/a	(\$1.4)	(8.6)	(4.9)
RT66	Carolinian	\$16.7	\$17.4	(\$0.7	\$0.6	(\$1.3)	n/a	(\$1.3)	(16)	(1.1)
RT67	Piedmont	\$2.7	\$3.3	(\$0.6)	\$0.1	(\$0.7)	n/a	(\$0.7)	(8.8)	(3.5)
RT96	Non NEC Special Trains	\$2.5	\$3.5	(\$1.0)	\$0.4	(\$1.4)	n/a	(\$1.4)	(14.5)	(24.6)
	Total	\$518.9	\$734.6	(\$215.7)	\$27.3	(\$243.0)	n/a	(\$243.0)	(14.5)	(5.9)

Long Dis	tance Trains		Total Costs excl. OPEB's, Capital	Core Contribution /	OPEB's	Contribution /		Fully Allocated	Fully Allocated Contribution /	Fully Allocated Contribution /
Route	Train Name	Total	Charge and Other Costs	(Loss) excl. OPEB's	and Other Costs	(Loss) before Capital Charge	Capital Charge*	Contribution / (Loss)	(Loss) per Pass Mile (cents)	(Loss) per Seat Mile (cents)
RT16	Silver Star	\$29.9	\$727	(\$42.8)	\$2.5	(\$45.4)	n/a	(\$45.4)	(23.4)	(14.0)
RT18	Cardinal	\$7.0	\$215	(\$14.6)	80.9	(\$15.4)	n/a	(\$15.4)	(35.7)	(19.1)
RT 19	Silver Meteor	\$34.8	\$73.0	(\$38 1)	\$2.5	(\$40.6)	n/a	(\$40.6)	(20.1)	(12.0)
RT25	Empire Builder	\$58.1	\$107.7	(\$49.6)	\$3.5	(\$53.2)	n/a	(\$53.2)	(14.1)	(8.5)
RT26	Captol Limited	\$19.1	\$37.9	(\$18.8)	\$1.3	(\$20.1)	n/a	(\$20.1)	(18.8)	(12.1)
RT27	California Zephyr	\$43 1	\$95.9	(\$52.9)	\$3.0	(\$55.9)	nfa	(\$55.9)	(20.4)	(11.0)
RT28	Southwest Chief	\$41.2	\$93.3	(\$52.1)	\$3.0	(\$55.1)	n/a	(\$55.1)	(19.0)	(11.9)
RT30	City of New Orleans	\$15.9	\$34.8	(\$19.0)	\$1.2	(\$20.2)	n/a	(\$20.2)	(21.5)	(12.4)
RT32	Texas Eagle	\$21.4	\$46.8	(\$25.4)	\$1.6	(\$27.0)	n/a	(\$27.0)	(17.6)	(10.6)
RT33	Sunset Limited	\$9.5	\$45.2	(\$35.8)	\$1.5	(\$37.3)	n/a	(\$37.3)	(55.2)	(23.1)
RT34	Coast Starlight	\$36.9	\$77.4	(\$40.6)	\$2.4	(\$42.9)	n/a	(\$42.9)	(19.7)	(12.2)
RT45	Lake Shore Limited	\$25.5	\$56.3	(\$30.8)	\$1.8	(\$32.6)	n/a	(\$32.6)	(20.0)	(12.0)
RT48	Palmetto	\$13.2	\$25.9	(\$12.7)	\$1.1	(\$13.8)	n/a	(\$13.8)	(19.1)	(9.5)
RT52	Crescent	\$28.3	\$67.6	(\$39.3)	\$2.4	(\$416)	n/a	(\$41.6)	(28.8)	(14 5)
RT63	Auto Train	\$59.2	\$78.0	(\$18.8)	\$3.2	(\$22.0)	n/a	(\$22.0)	(11.0)	(6.9)
	Total	\$443.0	\$934.2	(\$491.2)	\$31.9	(\$523.1)	n/a	(\$523.1)	(20.1)	(11.7)
	Total National Train System	\$1 823 5	\$2.456.7	(\$633.3)	\$107.9	(\$741.2)	n/a	(\$741.2)	(12.6)	(6.1)

ciling Items between National Train System and Consolidated Statement of Operations

	Revenue	Expense	Net
Total National Train System	\$1,823.5	\$2,564.6	(\$741.2
Ancillary Customers Freight and Other Customers Depreciation, net	\$326 8 \$175 4 \$0.0	\$286.9 \$93.1 \$562.6	\$39.9 \$82.2 (\$562.6
Operating Results	\$2,325.6	\$3,507.2	(\$1,181.6
Interest Expense, net	\$0.0	\$109.9	(\$109.9
State Capital Payments	\$27.2	\$0.0	\$27.2
Net Results	\$2,352.8	\$3,617.1	(\$1,264.4

Notes: - The role performance data contained in this raport no longer follows the Strategic Reform Initiative. (SRI) or Route Profitability System (RPS) formati used in proviveral's reports. Beginning in FV 10 this report is produced using the Amtral-Performance Tracking (APT) system, which drives costs to all customers, including freque and commer railcoads: - As such, this report is <u>not</u> comparable to previously published data - Arrital-does not report depreciation on a route level due to the distortion caused by the sale and leastback transactions of the 1930's and early 2000s. Allocating depreciation and interest would unfairly burden routes whose equipment the value of those assists to increase and therefore their depreciation for the related to the the value of those assists to increase and therefore their depreciation to the related within Other CFV09 results in APT reflect than added rasits. Audit adjustments are currently reflected within Other Customers for the reconciliation to the audited income statement results.



		RI	dersnip				IICKEL	Revenue		
				% cha	nge vs.				% char	nge vs.
NEC Spine	FY09	FY08	Budget	FY08	Budget	FY09	FY08	Budget	FY08	Budget
1 - Ácela	3,019,627	3,398,759	3, 525, 789	-11.2	-14.4	\$409,251,483	\$467,782,708	\$503,164,404	-12.5	-18.7
5 - Northeast Regional	6,920,610	7,489,426	7,670,569	-7.6	-9.8	\$431,430,679	\$481,606,621	\$506,917,742	-10.4	-14.9
99 - Special Trains	5,790	9,667	12,500	-40.1	-53.7	\$1,000,499	\$1,249,590	\$1,565,000	-19.9	-36.1
Subtotal	9,946,027	10,897,852	11,208,858	-8.7	-11.3	\$841,682,662	\$950,638,920	\$1,011,647,146	-11.5	-16.8
State Supported and Other Short Distant	e Corridors									
3 - Ethan Allen	46,748	46,881	47,609	-0.3	-1.8	\$2,347,362	\$2,407,851	\$2,556,365	-2.5	-8.2
4 - Vermonter	74,016	72,655	74,027	+1.9	-0.0	\$4,011,930	\$3,942,778	\$4,108,676	+1.8	-2.4
7 - Albany-Niagara Falls-Toronto	339,434	354,492	366,588	-4.2	-7.4	\$19,269,166	\$21,759,315	\$23,505,189	-11.4	-18.0
9 - Downeaster	460,474	474,492	486,899	-3.0	-5.4	\$6,496,040	\$6,560,768	\$6,795,241	-1.0	-4.4
12 - New Haven-Springfield	325,518	349,928	366,479	-7.0	-11.2	\$9,208,912	\$10,063,889	\$10,872,484	-8.5	-15.3
14 - Keystone	1,215,785	1,183,821	1,231,687	+2.7	-1.3	\$25,105,076	\$24,747,102	\$26,843,091	+1.4	-6.5
15 - Empire (NYP-ALB)	925,746	994,293	1,037,048	-6.9	-10.7	\$36,755,360	\$41,114,816	\$44,954,007	-10.6	-18.2
20 - Chicago-St. Louis (Lincoln Service)	506,235	476,427	517,054	+6.3	-2.1	\$11,327,352	\$11,288,034	\$11,886,294	+0.3	-4.7
21 - Hiawatha	738,231	749,659	775,029	-1.5	-4.7	\$13,300,511	\$13,138,765	\$13,652,670	+1.2	-2.6
22 - Wolverine	444,127	472,393	502,292	-6.0	-11.6	\$15,041,919	\$16,243,510	\$17,343,657	-7.4	-13.3
23 - Chicago-Carbondale (Illini/Saluki)	259,630	271,082	290,804	-4.2	-10.7	\$7,126,732	\$7,732,413	\$8,093,765	-7.8	11.9
24 - Chicago-Quincy (IL Zephyr/Carl Sandburg)	202,558	202,814	216,209	-0.1	-6.3	\$4,657,372	\$4,979,726	\$5,245,832	-6.5	-11.2
29 - Heartland Flyer	73,564	80,892	84,034	-9.1	-12.5	\$1,592,435	\$1,682,088	\$1,716,555	-5.3	-7.2
35 - Pacific Surfliner	2,592,996	2,898,859	3,094,911	-10.6	-16.2	\$46,551,006	\$51,010,624	\$55,698,863	-8.7	-16.4
36 - Cascades	740, 154	760,323	809,500	-2.7	-8.6	\$20,944,809	\$20,999,003	\$22,959,905	-0.3	-8.8
37 - Capitol Corridor	1,599,625	1,693,580	1,765,792	-5.5	-9.4	\$22,160,890	\$22,306,774	\$24,301,031	-0.7	-8.8
39 - San Joaquin	929,172	949,611	1,024,511	-2.2	-9.3	\$27,816,923	\$29,847,468	\$31,498,701	-6.8	-11.7
40 - Adiron dack	104,681	112,047	116,109	-6.6	-9.8	\$5,312,772	\$5,581,639	\$6,008,724	-4.8	-11.6
41 - Blue Water	132,851	136,538	143,480	-2.7	-7.4	\$4,111,375	\$4,158,742	\$4,359,725	-1.1	-5.7
47 - Washington-Newport News	446,604	459,236	480,990	-2.8	-7.1	\$23,904,997	\$26,276,227	\$28,276,582	-9.0	-15.5
54 - Hoosier State	31,384	31,774	33,489	-1.2	-6.3	\$677,755	\$681,685	\$712,035	-0.6	-4.8
56 - Kansas City-St. Louis (MO River Runner)	150,870	151,690	156,911	-0.5	-3.8	\$3,274,897	\$3,311,182	\$3,458,193	-1.1	-5.3
57 - Pennsylvanian	199,484	200,999	208,099	-0.8	-4.1	\$7,819,404	\$7,914,009	\$8,385,623	-1.2	-6.8
65 - Pere Marquette	103,246	111,716	118,628	-7.6	-13.0	\$2,818,294	\$2,975,391	\$3,150,759	-5.3	-10.6
66 - Carolinian	277,740	295,427	315,361	-6.0	-11.9	\$14,707,244	\$16,026,148	\$18,151,702	-8.2	-19.0
67 - Piedmont	68,427	65,941	68,351	+3.8	+0.1	\$1,119,573	\$1,079,184	\$1,128,622	+3.7	-0.8
74-81 - Buses						\$5,948,843	\$5,796,194	\$6,064,565	+2.6	-1.9
96 - Special Trains	32,937	50,626	53,400	-34.9	-38.3	\$2,822,047	\$5,201,520	\$5,285,000	-45.7	-46.6
Subtotal	13,022,237	13,648,196	14,385,291	-4.6	-9.5	\$346,230,996	\$368,826,847	\$397,013,853	-6.1	•12.8
Long Distance										
16 - Silver Star	371,235	367,139	371,770	+1.1	-0.1	\$27,034,942	\$27,699,306	\$28,875,866	-2.4	-6.4
18 - Cardinal	108,614	109,195	112,551	-0.5	-3.5	\$6,364,295	\$6,490,845	\$6,736,158	-1.9	-5.5
19 - Silver Meteor	330,734	319,773	326,428	+3.4	+1.3	\$32,640,978	\$30,568,604	\$31,539,056	+6.8	+3.5
25 - Empire Builder	515,444	554,266	572,577	-7.0	-10.0	\$54,064,861	\$59,461,168	\$62,457,654	-9.1	-13.4
26 - Capitol Ltd.	215,371	216,350	220,941	-0.5	-2.5	\$17,581,767	\$17,431,949	\$18,071,480	+0.9	-2.7
27 - California Zephyr	345,558	352,563	376,098	-2.0	-8.1	\$38,679,674	\$39,001,032	\$42,115,966	-0.8	-8.2
28 - Southwest Chief	318,025	331,143	341,028	-4.0	-6.7	\$38,033,503	\$41,079,865	\$42,828,980	-7.4	-11.2
30 - City of New Orleans	196,659	197,394	210,361	-0.4	-6.5	\$14,976,461	\$14,875,928	\$16,037,054	+0.7	-6.6
32 - Texas Eagle	260,467	251,518	250,012	+3.6	+4.2	\$19,721,777	\$19,514,531	\$19,761,610	+1.1	-0.2
33 - Sunset Ltd.	79 775	71,719	72,749	+9.8	+8.3	\$8,272,084	\$8,052,515	\$8,342,709	+2.7	-0.8
	10,775				164	\$32 627 703	\$28 117 404	\$35,381,968	+16.1	-7.8
34 - Coast Starlight	432,565	353,657	406,398	+22.3	+0.4	332,037,783	420, 111, 101	+	110000000000000000000000000000000000000	100000
34 - Coast Starlight 45 - Lake Shore Ltd.	432,565	353,657 345,632	406,398 356,823	+22.3	-6.3	\$23,978,505	\$24,238,394	\$25,094,946	-1.1	-4.4
34 - Coast Starlight 45 - Lake Shore Ltd. 48 - Palmetto	432,565 334,456 171,316	353,657 345,632 173,949	406,398 356,823 182,149	+22.3 -3.2 -1.5	-6.3 -5.9	\$23,978,505 \$12,479,621	\$24,238,394 \$12,901,668	\$25,094,946 \$13,577,890	-1.1 -3.3	-4.4 -8.1
34 - Coast Starlight 45 - Lake Shore Ltd. 48 - Palmetto 52 - Crescent	432,565 334,456 171,316 286,576	353,657 345,632 173,949 291,222	406,398 356,823 182,149 300,215	+22.3 -3.2 -1.5 -1.6	-6.3 -5.9 -4.5	\$23,978,505 \$12,479,621 \$26,498,509	\$24,238,394 \$12,901,668 \$27,095,838	\$25,094,946 \$13,577,890 \$28,386,245	-1.1 -3.3 -2.2	-4.4 -8.1 -6.7
34 - Coast Starlight 45 - Lake Shore Ltd. 48 - Palmetto 52 - Crescent 63 - Auto Train	432,565 334,456 171,316 286,576 232,955	353,657 345,632 173,949 291,222 234,839	406,398 356,823 182,149 300,215 242,620	+22.3 -3.2 -1.5 -1.6 -0.8	-6.3 -5.9 -4.5 -4.0	\$23,978,505 \$12,479,621 \$26,498,509 \$58,589,872	\$24,238,394 \$12,901,668 \$27,095,838 \$58,154,402	\$25,094,946 \$13,577,890 \$28,386,245 \$60,739,925	-1.1 -3.3 -2.2 +0.7	-4.4 -8.1 -6.7 -3.5

FY09

**Ticket Revenue** 

Ridership

A - 3.6

Amtrak Total

27,167,014 28,716,407 29,936,869 -5.4 -9.3 \$1,599,468,300 \$1,734,149,216 \$1,848,608,508 -7.8 -13.5

#### National Railroad Passenger Corporation (Amtrak)

Financial Performance of Routes - Fully allocated overhead, excluding Depreciation and Interest (see notes below) September 2009 YTD

Route Performance Results Exclude Federal Support for Operations, Depreciation, Interest and Capital Charges All numbers are in \$ millions except Passenger Mile and Seat Mile Calculations.

12.12		1 1								Contribution /	
Northeast Co	orridor Trains		FRA	Total	100 - 112 C	Contribution /	order to a	Total Costs	Contribution /	(Loss) per	Contribution /
Route		Total	Defined	Remaining	Total Direct	(Loss) after Direct	Total Non-	(Excl. Dep &	(Loss) (Exclude	Pass Mile	(Loss) per Seat
Number	Train Name	Revenue	Costs	Direct Costs	Costs	Costs	Direct Costs	int.)	Dep & Int)	(cents)	Mile (cents)
RT01	Acela	\$414.5	\$135.9	\$116.3	\$252.2	\$162.3	\$94.9	\$347.1	\$67.4	11.8	6.6
RT05	Northeast Regional	\$440.1	\$186.5	\$163.0	\$349.5	\$90.6	\$157.2	\$506.7	(\$66.6)	(6.3)	(2.8)
RT91	NEC Unknown (Crew Labor)	\$0.0	\$0.1	(\$0.0)	\$0.1	(\$0.1)	\$0.0	\$0.1	(\$0.1)	2.42	
RT06/98/99	NEC Special Trains	\$1.3	\$0.9	\$0.2	\$1.1	\$0.1	\$1.0	\$2.1	(\$0.8)	(37 5)	(26.4)
RT70	NEC Bus Route	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
	Total	\$855.9	\$323.5	\$279.6	\$603.0	\$252.9	\$253.1	\$856.1	(\$0.2)	(0.0)	(0.0)

State Supp	orted and Other		504	Tetal		Contribution		Tatal Casta	Contribution	Contribution	Cambridge
Route		Total	Defined	Remaining	Total Direct	(Loss) after Direct	Total Non-	(Excl. Dep &	(Loss) (Exclude	Pass Mile	(Loss) per Sea
Number DT02	Citian Mane	Revenue	Costs	Direct Costs	COSIS	COSIS	Direct Costs	111.)	Deparity	(cents)	Mile (cents)
DT04	Ethan Allen Express	80.0	\$24	\$1.0	\$37	(\$0.3)	50.6	34 0	(\$1.1)	(12.5)	(4 3)
DT07	Vermonter	\$0.5	10.2	\$10	\$1 G	(210)	51.3	1991	(52.2)	(10.5)	(4 6)
RT07	Maple Lea	\$20.1	\$10.0	59.5	\$20.2	(\$0.1)	547	300.9	(\$107)	(10.0)	(5.4)
RT09	The Downeaster	\$10.6	11.5	\$3.3	\$10.7	(\$0.1)	122	112.8	(32.2)	(6.2)	(2.0)
RT12	New Haven - Springtield	\$9.4	\$9.2	89.0	518.1	(587)	\$7.0	325.1	(\$ 15.7)	(53.2)	(24.4)
R114	Keystone Service	\$33.2	\$20.9	\$17.9	\$38.8	(\$5.6)	\$15.5	\$54.3	(\$21.1)	(197)	(7-1)
RT 15	Empire Service	\$37.2	\$28.7	\$26.5	\$55.3	(\$18.0)	\$13.0	\$68.3	(\$31.1)	(27.3)	(8.9)
R120	Chicago-St Louis	\$21.4	\$15.4	\$10.2	\$25.5	(\$4.2)	\$5.8	1313	(19.9)	(10.9)	(4.3)
RT21	Hiawathas	\$19.6	\$9.7	\$9.7	\$19.5	\$0.1	\$5.7	\$25.1	(\$5.6)	(9.5)	(3.7)
RT22	Wolvennes	\$16.3	\$17.5	\$8.6	\$26.0	(\$9.7)	\$8.7	\$34.7	(\$18.5)	(19.6)	(10.3)
RT23	Illini	\$10.5	\$7.5	\$4.5	\$12.1	(\$1.6)	\$2.8	\$14.8	(\$4.3)	(8.8)	(4.4)
RT24	Illinois Zephyr	\$8.3	\$8.4	\$4.1	\$12.5	(\$4.2)	\$2.7	\$15.2	(\$6.9)	(20-1)	(8.8)
RT29	Heartland Flyer	\$4.7	\$4.1	\$12	\$5.3	(\$0.6)	8.03	\$6-1	(\$1.4)	(11 1)	(5.0)
RT35	Pacific Suffiner	\$76.5	\$55.0	\$30.1	\$85.1	(\$8.6)	\$14.3	\$99.5	(\$22.9)	(10.7)	(3.4)
RT36	Cascades	\$397	\$29.2	\$12.8	\$41.9	(\$2.2)	\$8.0	\$49.9	(\$10.2)	(9.0)	(5.0)
RT37	Capitols	\$46.8	\$374	\$16.0	\$53.4	(\$6.6)	\$8.4	\$61.8	(\$15.0)	(14.7)	(4 0)
RT39	San Joaquins	\$59.7	\$519	\$10.8	\$62.7	(\$3.0)	\$110	\$73.7	(\$ 14 0)	(10.4)	(3.9)
RT40	Adirondack	\$9.8	\$7.1	\$3.2	\$10.4	(\$0.5)	\$2.8	\$13.1	(\$3.3)	(10.3)	(7.0)
RT41	Blue Water	\$9.0	\$6.2	\$3.0	\$9.2	(\$0.2)	\$2.6	\$11.8	(\$2.8)	(10.4)	(7.1)
RT47	Washington-Newport News	\$247	\$13.1	\$8.3	\$21.5	\$3.2	\$37	\$25.1	(\$0.5)	(0.5)	(0.3)
RT54	Hoosier State	\$0.7	\$2.2	\$1.1	\$3.3	(\$2.6)	\$0.6	\$3.9	(\$3.2)	(66-1)	(23.4)
RT56	Kansas City-St. Louis	\$11.5	\$6.5	\$3.8	\$10.3	\$1.2	\$1.9	\$12.2	(\$0.7)	(2.7)	(1.0)
RT57	Pennsylvanian	\$8.2	\$6.9	\$5.4	\$12.3	(\$4.0)	\$2.9	\$15.2	(\$6.9)	(14.6)	(10.6)
RT65	Pere Marguette	\$5.3	\$3.5	\$17	\$5.3	\$0.0	\$1.1	\$6.4	(\$1.1)	(7.1)	(5.0)
RT66	Carolinian	\$17.2	\$10.0	\$7.2	\$17.2	\$0.0	\$3.7	\$20.8	(\$3.6)	(4.3)	(3.2)
RT67	Piedmont	\$2.7	\$1.8	\$17	\$3.5	(\$0.7)	\$0.6	\$4.1	(\$1.4)	(17.2)	(6.9)
RT92	Central Linknown (Crew Labor)	\$0.0	\$0.2	\$0.0	\$0.2	(\$0.2)	\$0.0	\$0.2	(\$0.2)		
RT93	CrewLabor	\$0.0	\$0.2	\$0.0	\$0.3	(\$0.3)	\$0.0	\$0.3	(\$0.3)		
RT96	Non NEC Special Trains	\$26	\$0.7	\$0.3	\$1.0	\$1.6	\$2.0	\$3.0	(\$0.4)	(4.2)	(4.0)
	State Supported Rt Buses	\$0.0	\$0.0	\$0.0	\$0.0	(\$0.0)	(\$0.0)	\$9.0	(\$0.0)	(69.8)	(102.6)
	Total	\$516.2	\$386.1	\$212.8	\$598.9	(\$82.7)	\$134.6	\$733.4	(\$217.3)	(13.0)	(5.4)

	nas Taolas		504	Tabal		Contribution (		Tatal Casta	Contribution	Contribution /	Contribution
Route Number	Train Name	Total Revenue	Defined Costs	Remaining Direct Costs	Total Direct Costs	(Loss) after Direct Costs	Total Non- Direct Costs	(Excl. Dep & Int.)	(Loss) (Exclude Dep & Int)	Pass Mile (cents)	(Loss) per Seat Mile (cents)
RT 16	Silver Star	\$29.3	\$42.1	\$24.4	\$66.6	(\$37.3)	\$16.2	\$82.8	(\$53.4)	(27.6)	(16.5)
RT 18	Cardinal	\$6.9	\$132	\$6.7	\$20.0	(\$13.0)	\$4.9	\$24.9	(\$18.0)	(41.5)	(23.2)
RT 19	Silver Meteor	\$34.8	\$417	\$24.2	\$66.0	(\$31.2)	\$16.5	\$82.5	(\$47.7)	(23.6)	(14.4)
RT25	Empire Builder	\$597	\$688	\$22.6	\$91.4	(\$31.7)	\$17.5	\$108.9	(\$49.1)	(13.1)	(7.7)
RT26	Capitol Limited	\$19.1	\$24.3	\$12.5	\$36.8	(\$17.7)	\$7.2	\$44.0	(\$24.9)	(23.3)	(16.1)
RT 27	California Zephyr	\$431	\$65.6	\$20 1	\$85.7	(\$42.6)	\$16.2	\$101.9	(\$58.9)	(215)	(11.3)
RT28	Southwest Chief	\$418	\$59.4	\$21.1	\$80.4	(\$38.6)	\$15.5	\$96.0	(\$54.1)	(187)	(11.2)
RT30	City of New Orleans	\$15.9	\$210	\$6.2	\$27.2	(\$11.3)	\$5.6	\$32.8	(\$16.9)	(180)	(11.1)
RT32	Texas Eagle	\$21.3	\$32.1	\$10.7	\$42.8	(\$21.5)	\$8.3	\$51.1	(\$29.7)	(195)	(10.4)
RT33	Sunset Limited	\$98	\$26.2	\$10.6	\$36.8	(\$27.0)	\$6.9	\$437	(\$33.9)	(50.3)	(28.6)
RT34	Coast Starlight	\$38.0	\$54.4	\$19.6	\$74.0	(\$36.1)	\$12.2	\$86.3	(\$48.3)	(22.2)	(13.4)
RT45	Lake Shore Limited	\$25.4	\$33.8	\$23.2	\$57.0	(\$31.7)	\$119	\$63.9	(\$43.6)	(267)	(16.1)
RT48	Palmetto	\$13.2	\$13.3	\$9.0	\$22.3	(\$9.1)	\$6.6	\$28.9	(\$15.7)	(218)	(10.5)
RT52	Crescent	\$28.1	\$40.0	\$18.9	\$58.9	(\$30.8)	\$15.3	\$74.2	(\$46 1)	(31.9)	(16.1)
RT63	Auto Train	\$58.9	\$48.6	\$16.8	\$65.5	(\$6.6)	\$117	\$77.2	(\$18.3)	(9.1)	(5.9)
	Total	\$445.3	\$584.6	\$246.8	\$831.4	(\$386.1)	\$172.6	\$1,004.0	(\$558.8)	(21.5)	(12.5)
	Total All Trains	\$1.817.3	\$1 794 1	\$739.2	\$2.033.3	(\$215.9)	\$560.3	\$2593.6	(\$776.3)	(13.2)	(6.5)

Reconciling Items between RPS and Conso	lidated Statement	of Operation	s
	Revenue	Expense	Net
Total National Train System	\$1,817.3	\$2,593.6	(\$776.3)
Ancillary Businesses Freight Access Fees and Other	\$320 3 \$183.8	\$215.2 \$33.4	\$105 1 \$150 4
Operating Results	\$2,321.4	\$2,842.2	(\$520.8)
Interest Expense, net	\$0.0	\$108.8	(\$108.8
Depreciation, net	\$0.0	\$5623	(\$5623)
Project Costs covered by Capital Funds	\$0.0	\$827	(\$827
State Capital Payments	\$27.2	0.0	\$27.2
Nat Recults	\$7.348.6	\$3,506.0	151 247 4

5

Notes
The route performance data contained in section C no longer fotiows the Strategic Reform Instative (SRI) format used in provi year's nonets. Under the SRI format, Instastructure and Unallocated System costs were not allocated to Antrak notes. The report in section C, utilizing the Route Profitability System (RPS), now reports Portice results after infrastructure and System costs have been tuby allocated to Antrak notes. The report in section C, utilizing the Route Profitability System (RPS), now reports Portice results after infrastructure and System costs have been tuby allocated to Antrak notes. The report in the controls. Free and Power 126: Crew, CBS and Commissian roads, call and Partomance the controls. Free and Power 126: Crew, CBS and Commissian roads. Call and Locendities maint and Turnaround Costs, Commission, Real events, SCII Carter, Figs Inconvenience, and Route Stations Total PRenaming Direct Costs include Shared Stations. McE Supervision and Training. Mantenance of Vilay, road Cost, Marketing and Distructioni, Itsurance. Terminal Payments. ProcurementProcession, Science/Exercision and Tax Coverte and Total Non-Direct Costs includes Antrak Infrastructure Mantenance and System rosts.

C - 1

#### National Railroad Passenger Corporation (Amtrak)

Financial Performance of Routes - Fully allocated overhead, excluding Depreciation and Interest (see notes below)

#### September 2008 YTD

Route Performance Results Exclude Federal Support for Operations, Depreciation, Interest and Capital Charges All numbers are in \$ millions except Passenger Mile and Seat Mile Calculations.

Northeast Co	orridor Trains		FRA	Total		Contribution /		Total Costs	Contribution /	(Loss) per	(Loss) per
Route Number	Train Name	Total Revenue	Defined Costs	Remaining Direct Costs	Total Direct Costs	(Loss) after Direct Costs	Total Non- Direct Costs	(Excl. Dep & Int.)	(Loss) (Exclude Dep & Int)	Pass Mile (cents)	Seat Mile (cents)
RT01	Acela	\$474 1	\$145 1	\$113.4	\$258.5	\$215.6	\$86.8	\$345.3	\$128.8	20.4	12.8
RT05	Northeast Regional	\$490.5	\$185.4	\$165.4	\$350.8	\$139.7	\$137 5	\$468.3	\$2.2	02	0.1
RT91	NEC Unknown (Crew Labor)	\$0.0	\$1.3	\$0.0	\$1.3	(\$1.3)	\$0.0	\$1.3	(\$1.3)		
RT06/98/99	NEC Special Trains	\$16	\$1.1	\$0.3	\$13	\$0.3	\$0.1	\$1.4	\$0.2	1.000	
RT70	NEC Bus Route	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
	Total	\$966.2	\$332.9	\$279.0	\$611.9	\$354.3	\$224.3	\$836.2	\$129,9	7.3	3.8

State Supp	orted and Other			-		Contribution (		Tabel Casta	Contribution	Contribution /	Contribution /
Short Dista	ince Corridor Trains		FRA	Total	Tatal Direct	Contribution /	Total Man	Frei Dan &	(Lose) (Exclude	Pass Mile	Seat Mile
Number	Train Name	Revenue	Costs	Direct Costs	Costs	Costs	Direct Costs	Int.)	Dep & Int)	(cents)	(cents)
RT03	Ethan Allen Exoress	\$3.7	\$2.6	\$1.2	\$3.8	(\$0.1)	\$0.7	\$4.4	(\$0.8)	(8.5)	(3.5)
RT04	Vermonter	\$6.9	\$6.5	\$1.6	\$8.0	(\$1.2)	\$1.2	\$9.2	(\$2.3)	(10.8)	(4.9)
RT07	Maple Leaf	\$22.7	\$18.6	\$9.4	\$27.9	(\$5.2)	\$4.2	\$32.1	(\$9.4)	(8.7)	(47)
RT09	The Downeaster	\$11.5	\$8.7	\$3.1	\$11.8	(\$0.3)	\$2.3	\$14.0	(\$2.6)	(6.8)	(2.2)
RT12	New Haven - Springfield	\$10.3	\$9.9	\$8.5	\$18.4	(\$8.1)	\$7.2	\$25.6	(\$15.3)	(49.0)	(23.1)
RT14	Keystone Service	\$32.0	\$21.3	\$18.0	\$39.3	(\$7.3)	\$15.2	\$54.5	(\$22.5)	(213)	(7.6)
RT15	Empire Service	\$41.6	\$32.2	\$25.6	\$57.8	(\$163)	\$13.1	\$70.9	(\$29.4)	(23.8)	(8.3)
RT20	Chicago-St Louis	\$31.8	\$17 1	\$8.5	\$25.6	\$6.2	\$5.1	\$30.6	\$1.1	1.3	0.6
RT21	Hiewathas	\$22.0	\$10.5	\$8.7	\$19.2	\$2.8	\$6.0	\$25.2	(\$3.2)	(5.3)	(2.2)
RT22	Wolverines	\$17.7	\$20.2	\$8.3	\$28.5	(\$10.8)	\$8.2	\$36.7	(\$19.0)	(18.9)	(10.4)
RT23	Him	\$13.1	\$7.5	\$4.3	\$11.9	\$1.2	\$2.5	\$14.4	(\$1.3)	(2.5)	(1 3)
RT24	Illinois Zephyr	\$10.7	\$8.7	\$3.9	\$12.6	(\$1.9)	\$2.6	\$15.2	(\$4.5)	(13.0)	(5.6)
RT29	Heartland Flver	\$5.7	\$4.3	\$1.2	\$5.6	\$0.1	\$0.8	\$6.4	(\$0.7)	(47)	(2.0)
RT35	Pacific Surfliner	\$78.6	\$59.2	\$28.6	\$87.8	(\$9.2)	\$13.8	\$101.6	(\$23.0)	(9.5)	(3.5)
RT36	Cascades	\$38.5	\$31.1	\$13.2	\$44.3	(\$5.8)	\$7.3	\$51.6	(\$13.1)	(11.2)	(6.3)
RT37	Capitols	\$43.5	\$39.5	\$15.8	\$55.3	(\$11.6)	\$8.7	\$63.9	(\$20.5)	(186)	(5.4)
RT39	San Joaquins	\$61.9	\$56.4	\$11.1	\$67.5	(\$5.6)	\$10.0	\$77.5	(\$15.6)	(11.2)	(4.4)
RT40	Adirondack	\$10.9	\$7.6	\$3.1	\$10.7	\$0.2	\$1.7	\$12.4	(\$1.5)	(4.5)	(3.1)
RT41	Bue Water	\$8.7	\$7.1	\$2.9	\$10.0	(\$1.2)	\$2.2	\$12.2	(\$3.4)	(12.6)	(10.0)
RT47	Washington-Newport News	\$27.0	\$15.8	\$8.1	\$23.9	\$3.1	\$3.5	\$27.3	(\$0.3)	(0.3)	(0.2)
RT54	Hoosier State	\$0.7	\$2.3	\$1.0	\$3.3	(\$2.6)	\$0.6	\$3.8	(\$3.1)	(63.2)	(22.4)
RT56	Kenses City-St Louis	\$7.1	\$7.0	\$3.2	\$10.2	(\$3.1)	\$1.8	\$12.0	(\$4.9)	(17.2)	(6.4)
RT57	Pennsylvanian	\$8.4	\$7.1	\$5.4	\$125	(\$4.1)	\$2.7	\$15.2	(\$6.9)	(14 1)	(10.5)
RT65	Pere Marquette	\$5.2	\$3.8	\$1.7	\$5.4	(\$0.2)	\$1.1	\$6.5	(\$1.3)	(7.4)	(5.0)
RT66	Carolinian	\$20.1	\$11.2	\$7.0	\$18.2	\$1.9	\$3.2	\$21.4	(\$1.3)	(1.4)	(1 1)
RT67	Fiedmont	\$2.6	\$17	\$1.6	\$3.2	(\$0.6)	\$0.6	\$3.8	(\$1.2)	(14.9)	(6 7)
R192	Central Unknown (Crew Labor)	\$0.0	\$0.9	\$0.0	\$0.9	(\$0.9)	\$0.0	\$0.9	(\$0.9)		
RT93	Crew Labor	\$0.0	\$0.8	\$0.0	\$0.8	(\$0.8)	\$0.0	\$0.8	(\$0.8)		
RT96	Non NEC Special Trans	\$5.3	\$2.9	\$0.5	\$3.4	\$1.9	\$0.1	\$3.5	\$1.8	10.7	7.0
	State Supported Rt Buses	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	•	
	Total	\$547.9	\$422.2	\$205.3	\$627.6	(\$797)	\$128.0	\$753.6	(\$205.7)	(116)	(5.1)

										Contribution /	Contribution
Long Dista	nce Trains		FRA	Total		Contribution /		Total Costs	Contribution /	(Loss) per	(Loss) per
Route		Total	Defined	Remaining	Total Direct	(Loss) after Direct	Total Non-	(Excl. Dep &	(Loss) (Exclude	Pass Mile	Seat Mile
Number	Train Name	Revenue	Costs	Direct Costs	Costs	Costs	Direct Costs	Int.)	Dep & Int)	(cents)	(cents)
RT16	Silver Star	\$29.9	\$45.6	\$24.6	\$70.2	(\$40.2)	\$14.6	\$84.7	(\$54.8)	(27.8)	(16.4)
RT18	Cardinal	\$7.2	\$14.1	\$6.4	\$20.6	(\$13.4)	\$4.3	\$24.8	(\$17.7)	(40.0)	(22.2)
RT 19	Silver Meteor	\$32.6	\$43.4	\$22.9	\$66.2	(\$33.6)	\$14.1	\$80.3	(\$47.7)	(24.5)	(15.3)
RT25	Empire Builder	\$65.0	\$76.0	\$22.7	\$98.6	(\$33.6)	\$15.1	\$113.8	(\$48.7)	(11.9)	(7.5)
RT26	Capitol Limited	\$19.0	\$27.0	\$12.6	\$39.6	(\$20.6)	\$6.6	\$46.2	(\$27.2)	(25.6)	(17.1)
RT27	California Zephyr	\$43.3	\$76.9	\$19.8	\$96.8	(\$53.4)	\$14.8	\$111.6	(\$68.3)	(24.9)	(13.0)
RT28	Southwest Chief	\$44.7	\$63.0	\$21.4	\$84.4	(\$39.8)	\$13.6	\$98.1	(\$53.4)	(17.4)	(11.1)
RT30	City of New Orleans	\$16.0	\$24.0	\$6.1	\$30.1	(\$14.1)	\$5.2	\$35.3	(\$19.3)	(20 6)	(13.2)
RT32	Texas Eagle	\$21.3	\$36.2	\$10.5	\$46.7	(\$25.3)	\$7.5	\$54.1	(\$32.8)	(21.4)	(11.4)
RT33	Sunset Limited	\$9.4	\$29.1	\$9.5	\$38.6	(\$29.2)	\$6.0	\$44.6	(\$35.2)	(53 2)	(30.2)
RT34	Coast Starlight	\$33.0	\$50.9	\$16.5	\$67.4	(\$34.4)	\$9.2	\$76.6	(\$43.6)	(23.6)	(14.7)
RT45	Lake Shore Limited	\$25.7	\$36.9	\$21.6	\$58.5	(\$32.8)	\$10.5	\$69.0	(\$43.3)	(28.4)	(18.2)
RT48	Paimetto	\$13.7	\$13.6	\$8.8	\$22.3	(\$8.7)	\$5.9	\$28.2	(\$14.5)	(18.9)	(97)
RT52	Crescent	\$28.8	\$43.1	\$19.3	\$62.4	(\$33.6)	\$13.9	\$76.3	(\$47.5)	(32.3)	(167)
RT63	Auto Train	\$58.4	\$50.4	\$16.2	\$66.7	(\$8.3)	\$10.6	\$77.2	(\$18.8)	(9.3)	(5.9)
	Total	\$448.0	\$630.2	\$238.9	\$869 1	(\$421.0)	\$151.8	\$1,020,8	(\$572.8)	(22.0)	(13.1)
	Total All Transa	£1.022.1	\$1 205 2	1 1702.2	\$1 100 6	1\$146.41	1502.1	\$26107	(\$648.6)	(10.5)	(5.5)

	Revenue	Expense	Net
Total National Train System	\$1,962.1	\$2,610.7	(\$648.6
Ancillary Businesses Freight Access Fees and Other	\$298.2 \$165.1	\$205.5 \$71.8	\$92.8 \$93.3
Operating Results	\$2,425.5	\$2,888.0	(\$462.5
Interest Expense, Net	\$0.0	\$175.9	(\$175.9
Depreciation, net	\$0.0	\$498.6	(\$498.6
Project Costs covered by Capital Funds	\$0.0	\$23 1	(\$23.1
State Capital Payments	\$27.3	\$0.0	\$27.3
Net Results	\$2,452.8	\$3,585.6	(\$1,132.8

Notat: - The route performance data contained in section C no longer follows the Strategic Reform Imateve (SRI) format used in prior year's reports. Under the SRI format, Infrastructure and Unallocated System costs were not allocated to Antrark routes. The report in section C, utilizing the Route Profitability System (RPS), now reports Route results after Infrastructure and Gystem costs have been tilly allocated to Antrark routes. - Prior year data may not match previously published reports at the individual route level - Tetal FRA Defined Costs represents host Ratioad MoNV and Performance Incentives, Fuel and Power, T&E Crew, OBS and Commissary costs, Car and Locomotive maint, and Tumaround Costs, Commissions, Rearrowins, Call Centers, Ray Inconvenience, and Route Stations - Total RAD Robs, Marketing and Distribution, Insurance, Terminal Payments, Procurement/Purchasing, Police/Environmental and Safety, and T&E Overhead, - Total Non-Direct Costs includes Antrak Infragitucture Mantenance and System costs

C - 2

E	:v	'n	Q
	. 1	υ	ο

		Ri	dership	-		Ticket Revenue				
	· .			% cha	nge vs.				% cha	nge vs.
NEC Spine	FY08	FY07	Budget	FY07	Budget	FY08	FY07	Budget	FY07	Budget
1 - Acela	3,398,759	3,191,321	3,283,442	+6.5	+3.5	\$467,782,708	\$403,571,410	\$429,977,096	+15.9	+8.8
5 - Northeast Regional	7,489,426	6,836,646	6,834,878	+9.5	+9.6	\$481,606,621	\$424,721,134	\$431,655,514	+13.4	+11.6
99 - Special Trains	9,667	7,045	9,340	+37.2	+3.5	\$1,249,590	\$1,011,903	\$1,815,000	+23.5	-31.2
Subtotal	10,897,852	10,035,012	10,127,660	+8.6	+7.6	\$950,638,920	\$829,304,447	\$863,447,610	+14.6	+10.1
State Supported and Other Short Distanc	e Corridors									
3 - Ethan Allen	46,881	43,942	45,948	+6.7	+2.0	\$2,407,851	\$2,190,959	\$2,352,200	+9.9	+2.4
4 - Vermonter	72,655	63,299	66.277	+14.8	+9.6	\$3,942,778	\$3,357,124	\$3,650,481	+17.4	+8.0
7 - Albany-Niagara Falls-Toronto	354,492	288,365	298,238	+22.9	+18.9	\$21,759,315	\$16,854,750	\$17,520,665	+29.1	+24.2
9 - Downeaster	474,492	361,634	414.441	+31.2	+14.5	\$6,560,768	\$4,800,036	\$5.838.614	+36.7	+12.4
12 - New Haven-Springfield	349,928	320,852	328,583	+9.1	+6.5	\$10,063,889	\$8.840,099	\$9,501,804	+13.8	+5.9
14 - Keystone	1,183,821	988,454	1.041.408	+19.8	+13.7	\$24,747,102	\$20,582,838	\$22.189,037	+20.2	+11.5
15 - Empire (NYP-ALB)	994,293	957,583	1,013,924	+3.8	-1.9	\$41,114,816	\$38,592,354	\$41,749,734	+6.5	-1.5
20 - Chicago-St. Louis (Lincoln Service)	476,427	408,807	427,711	+16.5	+11.4	\$11,288,034	\$8,822,785	\$9,488,613	+27.9	+19.0
21 - Hiawatha	749,659	595,336	625,581	+25.9	+19.8	\$13,138,765	\$10,230,272	\$10,807,024	+28.4	+21.6
22 - Wolverine	472,393	449,107	476,269	+5.2	-0.8	\$16,243,510	\$14,934,656	\$16,237,136	+8.8	+0.0
23 - Chicago-Carbondale (Illini/Salula)	271,082	228,695	243,211	+18.5	+11.5	\$7,732,413	\$6,187,835	\$6,715,875	+25.0	+15.1
24 - Chicago-Quincy (IL Zephyr/Carl Sandburg)	202,814	169,258	186,628	+19.8	+8.7	\$4,979,726	\$3,937,263	\$4,530,016	+26.5	+9.9
29 - Heartland Flyer	80,892	68,246	69,211	+18.5	+16.9	\$1,682,088	\$1,260,579	\$1,310,722	+33.4	+28.3
35 - Pacific Surfliner	2,898,859	2,707,188	2,798,380	+7.1	+3.6	\$51,010,624	\$46,788,081	\$49,556,765	+9.0	+2.9
36 - Cascades	760,323	674,153	680,501	+12.8	+11.7	\$20,999,003	\$18,165,351	\$18,761.864	+15.6	+11.9
37 - Capitol Corridor	1,693,580	1,450,069	1.471.685	+16.8	+15.1	\$22,306,774	\$18,059,715	\$19,195,506	+23.5	+16.2
39 - San Joaquins	949,611	804.785	816,417	+18.0	+16.3	\$29,847,468	\$24,544,160	\$26,533,880	+21.6	+12.5
40 - Adirondack	112,047	101,097	108.351	+10.8	+3.4	\$5,581,639	\$5,065,860	\$5,458,742	+10.2	+2.3
41 - Blue Water	136,538	127,642	136,061	+7.0	+0.4	\$4,158,742	\$3,557,216	\$3,767,921	+16.9	+10.4
47 - Washington-Newport News	459,236	401,510	404,049	+14.4	+13.7	\$26,276,227	\$20,914,840	\$21,373,397	+25.6	+22.9
54 - Hoosier State	31,774	26,347	26,616	+20.6	+19.4	\$681,685	\$529,270	\$553,649	+28.8	+23.1
56 - Kansas City-St. Louis	151,690	116,517	124,622	+30.2	+21.7	\$3,311,182	\$2,508,912	\$2,757,917	+32.0	+20.1
57 - Pennsylvanian	200,999	180,140	181,632	+11.6	+10.7	\$7,914,009	\$6,620,783	\$6,798,515	+19.5	+16.4
65 - Pere Marquette	111,716	104,819	111,973	+6.6	-0.2	\$2,975,391	\$2,666,416	\$2,865,142	+11.6	+3.8
66 - Carolinian	295,427	256,212	259,929	+15.3	+13.7	\$16,026.148	\$13,512,362	\$13,726,170	+18.6	+16.8
67 - Piedmont	65,941	50,551	50,581	+30.4	+30.4	\$1,079,184	\$831,383	\$855,196	+29.8	+26.2
74-81 - Buses			-			\$5,796,194	\$4,878,943	\$4,734,072	+18.8	+22.4
96 - Special Trains	50,626	48,644	50,400	+4.1	+0.4	\$5,201,520	\$4,622,911	\$5,235,000	+12.5	-0.6
Subtotal	13,648,196	11,993,252	12,458,627	+13.8	+9.5	\$368,826,847	\$313,857,753	\$334,065,656	+17.5	+10.4
Long Distance										
16 - Silver Star	367,139	329,132	327,143	+11.5	+12.2	\$27,699,306	\$25,715,553	\$26,916,495	+7.7	+2.9
18 - Cardinal	109,195	96,896	96,444	+12.7	+13.2	\$6,490,845	\$5,453,083	\$5,693,023	+19.0	+14.0
19 - Silver Meteor	319,773	291,735	290,871	+9.6	+9.9	\$30,568,604	\$27.379,452	\$28,699.984	+11.6	+6.5
25 - Empire Builder	554,266	504,977	521,972	+9.8	+6.2	\$59,461,168	\$53,177,760	\$56,375,437	+11.8	+5.5
26 - Capitol Ltd.	216,350	193,748	194,877	+11.7	+11.0	\$17,431,949	\$14,877,428	\$15,433,688	+17.2	+12.9
27 - California Zephyr	352,563	329,840	351,702	+6.9	+0.2	\$39,001,032	\$35,719,619	\$40,009,923	+9.2	-2.5
28 - Southwest Chief	331,143	316,668	327,976	+4.6	+1.0	\$41,079,865	\$37.935,113	\$40,646,351	+8.3	+1.1
30 - City of New Orleans	197,394	180,473	182,826	+9.4	+8.0	\$14,875,928	\$13,311,213	\$14,091,945	+11.8	+5.6
32 - Texas Eagle	251,518	218,321	225,810	+15.2	+11.4	\$19,514,531	\$16,424,146	\$17,199,150	+18.8	+13.5
33 - Sunset Ltd.	71,719	63,336	65,752	+13.2	+9.1	\$8,052,515	\$6,955.881	\$7.605.786	+15.8	+5.9
34 - Coast Starlight	353,657	343,542	362,328	+2.9	-2.4	\$28,117,404	\$29,171,278	\$32,201,080	-3.6	-12.7
45 - Lake Shore Ltd.	345,632	312,643	311,248	+10.6	+11.0	\$24,238,394	\$21,421,657	\$22,407,259	+13.1	+8.2
48 - Palmetto	173,949	156,998	159,420	+10.8	+9.1	\$12,901,668	\$11,280,047	\$11,901,455	+14.4	+8.4
52 - Crescent	291,222	263,136	266,523	+10.7	+9.3	\$27,095,838	\$24,262,171	\$25,590,692	+11.7	+5.9
63 - Auto Train	234,839	217,822	224,759	+7.8	+4.5	\$58,154,402	\$52,883,481	\$55,639,681	+10.0	+4.5
Subtotal	4,170,359	3,819,267	3,909,651	+9.2	+6.7	\$414,683,450	\$375,967,883	\$400,411,949	+10.3	+3.6
Amtrak Total	28,716,407	25,847,531	26,495,938	+11.1	+8.4	\$1,734,149,216	\$1,519,130,083	\$1,597,925,215	+14.2	+8.5

A - 3.5

# National Railroad Passenger Corporation (Amtrak) Financial Performance of Routes - Strategic Business Line (SBL) format

September 2008 YTD - Unaudited Route Performance Results Exclude Federal Support for Operations, Unallocated System costs and Capital Charges At numbers are in \$ mittions except Passenger Nile and Seat Mée Calculations

Northeast Co	arrider Trains				Total	Contribution /	Total	Total	Centribution /	Contribution /	Contribution /
Route	Train Name	Total Revenue	Direct	Other Direct Costs	Avoidable Costs	(Loss) after Avoidable Costs	Shared Costs	Attributed Costs	(Loss) (Exclude Dep & Int)	(Loss) per Pass Mile (cents)	(Loss) per Seat Mile (cents)
RT01	Acela	\$486.3	\$27.2	\$110.5	\$137.7	\$348.6	\$128.4	\$266.1	\$220 2	34.9	21.6
RT05	Northeast Regional	\$518.4	\$53.7	\$129.3	\$183.0	\$335.4	\$198.9	\$371.9	\$146.5	12.8	6.1
RT91	NEC Unknown (Crew Labor)	\$0.0	\$1.1	\$0.2	\$1.3	(313)	\$0.2	\$1.3	\$3.6		
RT70	NEC Bus Route	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		****
	Total	\$1,009.4	\$92.2	\$240 E	\$322.8	\$686.6	\$317.6	\$640.4	\$369.0	20.7	10.7

State Supp	orted and Other				Total	Centribution /	Total	Total	Contribution /	Contribution /	Contribution /
Route	Train Name	Total	Direct	Other Direct	Avoldable	(Loss) after Avoidable Costs	Shared	Attributed Costs	(Loss) (Exclude Dep & Int)	(Loss) per Pass Mile (cents)	(Loss) per Sea Mile (cents)
ET02	Ethan Allen Express	137	\$0.9	\$16	\$2.5	\$1.2	\$1.5	\$4.0	(\$0.3	(34)	(1.4)
DT04	Vermonter	46.0	\$1 B	\$5.0	\$6.8	\$0.2	\$2.2	\$9.9	(\$2.0	(9.2)	(4.2)
10104	Alboou Miscore Follo Toronto	\$72.9	\$5.4	\$13.5	\$18.9	\$3.9	\$10.6	\$29.5	(\$67	(8.1)	(3.3)
ETCO .	The Downe aster	\$11.1	\$2.2	\$5.6	\$7.8	\$3.3	\$4.4	\$12.2	(\$1.1	(30)	(0.9)
DT12	New Haven - Springfield	\$10.2	\$3.4	58.6	\$12.0	(\$1.8)		\$22.0	. (\$11.8	(37.6)	(17.6)
PT14	Kaustone Service	\$33.1	\$6.6	\$10.3	\$16.9	\$16.2	\$20.8	\$37.7	(\$4.6	(4.4)	(1.5)
DT16	Empire Service	\$47.2	. 29.9	\$23.6	\$33.4	1 \$8 8	\$27.9	. \$61.4	(\$19.1	(15.5)	(5.4)
PT20	Chicago, St Louis	\$32.2	\$5.4	\$11.7	\$17.1	\$15.1	\$11.3	\$28.4	\$3.8	4.4	2.0
ET21	Linuation	\$23.5	\$2.8	\$7.7	\$10.5	\$13.0	\$14.4	\$24.8	(\$1.4	(2.3)	(0.9)
ET22	Molverines	\$18.4	\$5.1	\$15.1	\$20.2	(\$1.8)	\$12.9	\$33.2	(\$14.7	(14.6)	(0.0)
OT 22	Illion	\$13.3	\$2.7	\$4.8	\$7.5	\$5.7	\$5.8	\$13.3	(\$0.0	(00)	(0.0)
ET2d	Illinois Zentwr	\$10.9	\$2.8	\$5.8	\$8.6	\$2.3	\$5.4	\$14.0	(\$3.1	(8.9)	(3.8)
ET20	Heartland Elver	\$5.7	\$1.3	\$3.1	\$4.4	\$1.3	\$1.5	\$5.8	(\$0.2	(1.5)	(0.6)
PT25	Pactic Suffinar	\$77.1	\$17.1	\$42.2	\$59.3	\$17.8	\$32.4	\$91.8	(\$14.7	(61)	(2.2)
IDTOE	Cascadas	\$41.3	\$10.6	\$20.2	\$30.7	\$10.5	\$16.5	\$47.2	(\$5.9	(51)	(2.8)
PT37	Canitols	\$43.7	\$12.6	\$27.1	\$39.7	\$3.9	\$18.1	\$57.9	(\$14.2	(12.9)	(3.7)
ET20	San Jasours	\$62.8	\$10.2	\$46 E	\$56.8	\$6.0	\$14.7	\$71.5	(\$8.7	(63)	(2.4)
IDT40	Admodack	\$11.0	\$2.3	\$4.9	\$7.2	\$3.8	\$3.9	\$11.1	(\$0.1	(0.3)	(0.2)
ET41	Blue Mater	\$9.0	\$2.1	\$5.0	\$7.1	\$1.9	\$4.3	\$11.3	(\$2.4	(8.8)	(7.1)
DTA7	Machington Newport News	\$28.1	\$4.7	\$11.4	\$16.1	\$12.0	\$9.3	\$25.4	\$2.7	27	1.6
ET54	Hooser State	\$0.8	\$0.9	\$1.4	\$2.4	(\$1.6)	\$1.3	\$3.7	(\$30	(59.4)	(21.0)
RT56	Kansas City St Louis	\$7.2	\$2.9	\$4.3	\$7.2	(\$0.0)	\$4.0	\$11.1	(\$4.0	(14.0)	(5.2)
ETTE7	Peopsykanian	\$8.5	\$2.3	\$5.2	\$7.5	\$1.0	\$6.2	\$137	(\$5.2	(10.6)	(7.8)
PT65	Pere Marguette	\$5.5	\$1.2	\$2.5	\$3.8	\$1.7	\$2.7	\$8.5	(\$1.0	(5.7)	(3.8)
RT68	Carolinian	\$20.3	\$4.1	\$7.3	\$11.4	\$8.9	\$8.4	\$19.8	\$0.4	0.5	0.3
ET67	Predmont	\$2.8	\$1.1	\$0.6	\$1.7	\$0.9	\$1.B	\$3.5	(\$0.9	(11.1)	(4.8)
RT92	Central Unknown (Crew Labor)	\$0.0	\$0.7	\$0.2	\$0.9	(\$0.9)	\$0.0	\$0.9	(\$0.9		
ET93	Crew Labor	\$0.0	\$0.8	(\$0.0)	\$0.8	(\$0.8)	\$0.0	\$0.8	(\$0.8	)	
ET96	Non NEC Special Trains	\$5.2	\$0.6	\$1.7	\$2.3	\$2.8	\$0.7	\$3.1	\$2.1	12.8	8.6
10000	State Supported Rt Buses	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
	Total	\$558.9	\$124.6	\$296.9	\$421.5	\$135.4	\$253.0	\$674.4	(\$117.5	) (6.8)	(2.9)

					Total	Contribution (	Total	Total	Contribution /	Contribution /	Contribution /
Route Number	Train Name	Total Revenue	Direct Labor	Other Direct Costs	Avoidable Costs	(Loss) after Avoidable Costs	Shared Costs	Attributed Costs	(Loss) (Exclude Dep & Int)	(Loss) per Pass Mile (cents)	(Loss) per Seat Mile (cents)
RT16	Silver Star	\$31.4	\$17.8	\$29.0	\$46.7	(\$ 15 3)	\$29.1	\$75.8	(\$44.4)	(22.8)	(13.1)
RT17	Three Rivers	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
RT18	Cardinal	\$7 7	\$5.7	\$8.9	\$14.6	(\$6.9)	\$8.2	\$22.8	(\$15.1)	(34.2)	(18.9)
RT19	Silver Meteor	\$33.8	\$15.5	\$28.8	\$44.3	(\$10.5)	\$27.3	\$71.6	(\$37.8)	(19 4)	(12.0)
RT25	Empire Builder	\$64.0	\$28.8	\$46.8	\$76.5	(\$11.5)	\$29.0	\$104.5	(\$40.5)	(9.9)	(6.2)
RT2B	Capitol Limited	\$19.5	\$9.0	\$17.9	\$26.9	(\$7.4)	\$16.3	\$43.2	(\$23.7)	(22 3)	(14.7)
PT27	California Zephyr	\$44.0	\$28.9	\$48.1	\$77.0	(\$33.1)	\$28.3	\$103.4	(\$59.4)	(216)	(11.1)
RT29	Southwest Chief	\$44.9	\$22.2	\$40.9	\$63.2	(\$18.3)	\$27.6	\$90.9	(\$45.9)	(14.9)	(9.4)
RT30	City of New Orleans	\$16.4	\$7.5	\$16.8	\$24.3	(\$7.9)	\$9.0	\$33.3	(\$ 16.9)	(18.1)	(11.4)
RT32	Texas Eagle	\$21.6	\$13.8	\$22.8	\$36.6	(\$14.8)	\$14.6	\$51.2	(\$29.4)	(19.1)	(10.1)
ET33	Sunset Limited	\$9.3	\$13.2	\$16.1	\$29.3	(\$20.0)	\$11.4	\$40.7	(\$31.4)	(475)	(26 4)
RT34	Coast Starlight	\$32.0	\$16.9	\$34.6	\$51.5	(\$19.5)	\$20.0	\$71.5	(\$39.5)	(214)	(131)
RT45	Lake Shore Limited	\$26.4	\$13.1	\$24.2	\$37.3	(\$10.9)	\$26.7	\$63.9	(\$37.5)	(24.6)	(15.6)
RT48	Palmetto	\$14.5	\$5.0	\$10.1	\$15.1	(\$0.6)	\$11.1	\$28.2	(\$11.8)	(15.4)	(7.8)
RT52	Crescent	\$30.2	\$15.2	\$29.1	\$44.3	(\$14.0)	\$24.0	\$68.3	(\$38.0)	(25.8)	(13.2)
RT63	Auto Train	\$58.5	\$16.8	\$31.9	\$48,5	\$10.0	\$20.5	\$69.0	(\$10.5)	(5.2)	(3.3)
	Total	\$454.5	\$229,1	\$406.1	\$635.2	(\$ 180,7)	\$301.1	\$936.3	(\$491.8)	(18.5)	(10.9)
	Tetel All Terres	C 020 0	\$496.0	049.6	\$1 370 F	*e41.2	1971 G	¢0.051.1	(\$220.3)	(3.7)	(1.9)
	Fotal All   rains	\$2,020.8	\$439.8	\$343.0	\$1,373.0	5011.3	40/10	92,2011	10200 0	(0,1)	1 1.07
	Top-side adjustments						\$6.3	\$6.3			
	Total National Train System	\$2.020.8	\$435.9	\$943.6	\$1,379.5	\$641.3	\$877.9	\$2,257.4	(\$236.6)	(3.0)	(2.0)

Reconciling Items between SBL and Consolidated Statement of Operations

	Revenue	Expense	Net
Total National Train System	\$2,020.8	\$2,257.4	(\$236.6)
Infrastructure Management	\$ 195.1	\$265.1	(\$70.0)
Ancillary Businesses	\$ 298 2	\$204.5	\$93.7
Unallocated System	\$14.1	\$257.8	(\$243.7)
Eliminations	(\$ 101.2)	(\$101.2)	\$0.0
Operating Results	\$2,427.1	\$2,883 7	(\$456.6)
Interest Expense, Net	\$0.0	\$89.4	(\$89.4)
Depreciation	\$0.0	\$504.9	(\$504.9)
Federal and State Capital Payments	\$27.3	\$0.0	\$27.3
Net (Income) Loss from Discont Ops	\$0.0	\$0.0	\$0.0
Net Results	\$2,454.4	\$3,478.0	(\$1,023.6)

Notes - Proryear data may not match previously published reports at the individual route level. FV08 Poule Structure reflects Strategic Business I. ne format - Direct Labor represents T& Ea and OES vages, benefits and support - Other Direct Costs include Host Railroad MeVV and Performance Incenters, Fuel and Pource, Car and Locornotive maint and Trumrarund Costs, Commissions, Reservations, Call Centers, Psgr Incorrentience, and Route Stations - Total Avoitable Costs equals Direct Labor plus Other Direct Costs - Shared Costs Include Shared Station, MoE Supervision and Truning, Yard Ops, Marketing and Distribution, Insurance, Terman Payments, Procurrence/Pricinating, Policide-Minionmental and Safety, T&E Overhead, NTS Infrastructure, and System Costs - Total Attnibuted Costs equals Total Avoidable Costs plus Shared Costs

# National Rallroad Passenger Corporation (Amtrak) Financial Performance of Routes - Strategic Business Line (SBL) format

September 2007 YTD Route Performance Results Exclude Federal Support for Operations, Unallocated System costs and Capital Charges All numbers are in \$ millions except Passenger Mile and Seat Mile Calculations

Northeast Co	orridor Trains				Total	Contribution /	Total	Total	Contribution /	Contribution /	Contribution /
Route Number	Train Name	Totai Revenue	Direct Labor	Other Direct Costs	Avoidable Costs	(Loss) after Avoidable Costs	Shared Costs	Attributed Costs	(Loss) (Exclude Dep & int)	(Loss) per Pass Mile (cents)	(Loss) per Seat Mile (cents)
RT01	Acela	\$421.4	\$23.7	\$105.5	\$129.2	\$292.2	\$119.6	\$248.8	\$172.5	29.9	17.6
RT05	Regional	\$459.5	\$46.7	\$129.5	\$176.2	\$283.3	\$201.4	\$377 7	\$81.8	84	3.6
RT91	NEC Unknown (Crew Labor)	\$0.0	\$0.7	\$0.0	\$0.7	(\$0.7)	(\$0.0)	\$0.7	(\$0.7)		
RT06/98/99	NEC Special Trains	\$4.3	\$0.2	\$0.3	\$0.5	\$3.8	\$0.1	\$0.6	\$37	1.00	
RT70	NEC Bus Route	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
	Tatal	0.3002	\$71.2	#20E 0	\$200 C	\$4.70 C	02010	2007.0	\$ 2E7.4	10.0	0.0

State Supp	orted and Other				Total	Centribution /	Total	Total	Contribution /	Contribution /	Contribution /
Route		Total	Direct	Other Direct	Avoidable	(Loss) after	Shared	Attributed	(Loss) (Exclude	(Loss) per Pass	(Loss) per Seat
Number	Train Name	Revenue	Labor	Costs	Costs	Avoidable Costs	Costs	Costs	Dep & Int)	Mile (cents)	Mile (cents)
RT03	Ethan Allen Express	\$3.4	\$0.8	\$19	\$27	\$0.7	\$15	\$4.2	(\$0.8)	(9.7)	(38)
RT04	Vermonter	\$6.4	\$1.6	\$3.1	\$4.6	\$18	\$2.1	\$6 7	(\$0.3)	(1.5)	(0.6)
RT07	Albany-Niagara Falls-Toronto	\$17.9	\$5.0	\$10.2	\$15.2	\$2.7	\$10.6	\$25.8	(\$7.9)	(9.0)	(4 1)
RT09	The Downeaster	\$9.8	\$18	\$4.4	\$6.2	\$2.6	\$37	\$9.9	(\$1.1)	(4 13)	(1.4)
RT12	New Haven - Springfield	\$9.0	\$2.9	\$8.0	\$108	(\$2.0)	\$9.0	\$19.9	(\$10.9)	(38.5)	(16.9)
RT14	Keystone Service	\$28.6	\$5.8	\$10.5	\$16.3	\$12.3	\$216	\$37.8	(\$9.3)	(10.6)	(34)
RT15	Empire Service	\$39.5	\$97	\$218	\$310	\$8.5	\$29.5	\$60.5	(\$21.0)	(17 8)	(6.0)
RT20	Chicago-St Louis	\$23.7	\$4.3	\$8.9	\$13.3	\$10.4	\$10.5	\$23.8	(\$0.1)	(0.1)	(0.1)
RT21	Hiswathas	\$21.3	\$2.7	\$5.7	\$83	\$12.9	\$14.2	\$22.5	(\$1.2)	(2.6)	(10)
RT22	Wolverines	\$17.4	\$4.7	\$12.0	\$16.6	8.03	\$13.1	\$29.7	(\$12.3)	(12.8)	(67)
RT23	liko	\$13.9	\$2.2	\$4.1	\$6.4	\$75	\$56	\$12 D	\$1.9	44	20
RT24	Illinois Zephyr	\$11.8	\$2.4	\$4.0	\$6.4	\$5.4	\$4.9	\$11.3	\$0.5	1.7	0.6
RT28	Heard and Flyer	\$5.0	\$12	\$2.1	\$3.2	\$1.8	\$16	\$4.8	\$0.2	21	0.0
RT35	Pacific Suffiner	\$72.1	\$157	\$39 1	\$54.8	\$17.4	\$320	\$86.8	(\$14.7)	(6 6)	(2 3)
RT36	Cascades	\$35.2	\$9.0	\$178	\$26.9	\$8.4	\$16.2	\$43 1	(\$7.9)	(76)	(36)
RT37	Capitols	\$39.2	\$10.6	\$22.6	\$33.2	\$6.0	\$18.7	\$51.9	(\$ 12 6)	(13.1)	(3.5)
RT39	San Joaquins	\$53.4	\$9.0	\$40.0	\$49.0	\$4.4	\$14.5	\$63.5	(\$10.1)	(8.4)	(30)
RT40	Adirondack	\$9.0	\$2.0	\$4.4	\$6.4	\$2.6	\$3.6	\$10.0	(\$1.1)	(3 4)	(22)
RT41	Blue Water	\$7.5	\$1.8	\$3.7	\$5.5	\$19	\$37	\$9.2	(\$1.7)	(6.8)	(4 E)
RT47	Washington-Newport News	\$22.8	\$4 0	\$7.6	\$116	\$112	\$97	\$213	\$15	18	0.9
RT54	Hoosier State	\$0.6	\$0.7	\$1.2	\$1.9	(\$1.2)	\$12	\$3.1	(\$2.5)	(59.8)	(21.1)
RT56	Kansas City-St.Louis	\$7.3	\$2.6	\$4.3	\$6.9	\$0.3	\$3.9	\$10.9	(\$3 6)	(16.0)	(47)
RT57	Pennsylvanian	\$7.2	\$2.0	\$5.0	\$6.9	\$0.2	\$61	\$13.1	(\$5.9)	(14.1)	(8.8)
RT85	Pere Marguette	\$6.4	\$1.1	\$2.0	\$3.1	\$3.2	\$2.6	\$5 7	\$0.8	3 9	24
RT66	Carolinian	\$17.2	\$3.9	\$6.0	\$9.8	\$7.4	\$8.4	\$18.3	(\$1.0)	(13)	(0.9)
RT67	Piedmont	\$2.4	\$0.8	\$0.4	\$1.3	\$1.1	\$17	\$3.1	(\$0.6)	(10.2)	(41)
RT92	Central Unknown (Crew Labor)	\$0.0	\$0.9	\$0.0	\$0.9	(\$0.9)	\$0.0	\$0.9	(\$0.9)		
RT93	Crew Labor	\$0.0	\$0.5	\$0.0	\$0.5	(\$0.5)	\$0.0	\$0.5	(\$0.5)		
RT96	Non NEC Special Trains	\$4.7	\$0.8	\$1.7	\$2.5	\$2.2	\$0.7	\$3 2	\$1.5	8.8	81
	State Supported Rt Buses	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
	Total	\$491.6	\$110.2	\$252.4	\$362.8	\$129.0	\$2510	\$613.6	(\$121.9)	(7.9)	(3.2)

Long Dis Route Number	Train Name	Total Revenue	Direct Labor	Other Direct Costs	Avoidable Costs	(Loss) after Avoidable Costs	Shared Costs	Attributed Costs	(Loss) (Exclude Dep & Int)	(Loss) per Pass Mile (cents)	(Loss) per Seat Mile (cents)
RT16	Silver Star	\$29.3	\$16.6	\$26.1	\$42.7	(\$13.4)	\$26.8	\$69.5	(\$40.2)	(21.2)	(119)
RT17	Three Rivers	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
RT18	Cardinal	\$6.5	\$4 8	\$7.7	\$12.7	(\$6.1)	\$74	\$20 1	(\$13.5)	(35.8)	(18.4)
RT19	Silver Meteor	\$30.6	\$14 6	\$24.5	\$39.0	(\$8.4)	\$251	\$64 1	(\$33.5)	(18 2)	(10.9)
RT25	Empire Builder	\$58.0	\$26.1	\$41.6	\$67.6	(\$9.6)	\$24.6	\$92.3	(\$34.3)	(8.8)	(53)
RT26	Capitol Limited	\$17.3	\$8.5	\$15.1	\$23.6	(\$8.3)	\$15.3	\$38.9	(\$21.6)	(22.5)	(135)
RT27	California Zephyr	\$40.8	\$25.9	\$41.3	\$67.2	(\$28.4)	\$22.8	\$89.8	(\$49.0)	(18.0)	(9.2)
RT28	Southwest Chief	\$42.1	\$20.2	\$42.3	\$62.6	(\$20.5)	\$23.5	\$86.1	(\$44.0)	(14 5)	(94)
RT30	City of New Orleans	\$147	\$7.0	\$132	\$20.2	(\$5.5)	\$8.4	\$28.6	(\$13.9)	(16.5)	(9.5)
RT32	Texas Eagle	\$18.6	\$12.4	\$18.8	\$31.3	(\$12.7)	\$12.5	\$43.8	(\$25.2)	(19.3)	(9.8)
RT33	Sunset Limited	\$8.1	\$12.9	\$14.3	\$27.1	(\$19.0)	\$10.8	\$38.0	(\$29.8)	(48.6)	(25.3)
RT34	Coast Starlight	\$32.9	\$19.2	\$33.0	\$52.2	(\$19.3)	\$216	\$737	(\$40.8)	(19.8)	(116)
RT45	Lake Shore Limited	\$23.9	\$12.6	\$21.5	\$34.1	(\$10.2)	\$26.9	\$61.0	(\$37.2)	(25.9)	(15.6)
RT48	Palmetto	\$12.9	\$5.0	\$9.6	\$14.6	(\$1.7)	\$10.5	\$25 1	(112.2)	(17.5)	(7.9)
RT52	Crescent	\$27.2	\$14.9	\$24.0	\$38.8	(\$11.6)	\$22.8	\$61.6	(\$34.4)	(25.1)	(11.9)
RT63	Auto Train	\$53.5	\$15.8	\$27.2	\$43.1	\$10.5	\$19.5	\$62.6	(\$9.1)	(4.8)	(2.8)
	Total	\$418.5	\$216.6	\$360.1	\$5767	(\$ 160 2)	\$278.6	\$855.2	(\$438.8)	(17.6)	(10.0)
	Total All Trains	\$1,793.3	\$398 1	\$847.8	\$1,245.9	\$547.4	\$850 7	\$2,096.6	(\$303.3)	(5-4)	(2.6)
	Unallocated audit adjustments	\$1.3					(\$32.5)	(\$32.5)	***		
-	Total National Train System	\$1.794.8	\$398.1	\$847.8	\$1,245.9	\$548.7	\$818.2	\$2.064.1	(\$269.5)	(4.8)	(2.3)

Deconciling Item & hetween	SBI	and Consolidated Statement of Operations	

	nevenue	CAPED SE	INCL
Total National Train System	\$1,794.6	\$2,064.1	(\$269.5)
Infrastructure Management	\$ 197.5	\$243.0	(\$45.5)
Ancillary Businesses	\$254.4	\$170 2	\$84.1
Unallocated System	\$2.3	\$327.3	(\$325 0)
Eliminations	(\$98.3)	(\$98.3)	\$0.0
Operating Results	\$2,150.5	\$2,706.4	(\$555.8)
Interest Expense, Net	\$0.0	\$93.9	(\$ 93 9)
Depreciation	\$0.0	\$473.1	(\$473.1)
Federal and State Capital Payments	\$2.0	\$0.0	\$2.0
Net (Income) Lass from Discant Ops	\$0.0	\$0.0	\$0.0
Net Results	\$2,152.6	\$3,273.4	(\$1,120.9)

Notes - Proryear data may not match previously published reports at the individual route level. FY08 Rouse Structure reflects Strategic Business Line format. - Direct Labor represents T&E and OES wages. Lendits and support - Other Direct Costs include Hoat Rairoad MdVV and Performance Incentives, Fuel and Power, Car and Locomotive maint and Tumaround Costs, Commissions, Reservations, Call Centers, Psgr Inconvenience, and Route Stations - Total Avvidable Costs equals Direct Labor plus Other Direct Costs - Shared Costs Indude Shared Stations, MGE Supervision and Training. Yard Ops. Marketing and Distribution, Insurance, Termina Payments. Procuremert/Pricensions, PoliceEnvironmental and Safety. T&E Overhead, NTS Infrastructure, and System Costs - Total Attributed Costs equals Total Avoidable Costs plus Shared Costs.

		Die	archin			Ticket Revenue					
	r		lersnip	% cha	nde vs.	1	IICKEL		% cha	nge vs.	
NEC Spine	FY07	FY06	Budget	FY06	Budget	FY07	FY06	Budget	FY06	Budget	
1 - Acela	3,191,321	2.668.174	2.823,419	+19.6	+13.0	\$403,571,410	\$328,215,839	\$346,862,566	+23.0	+16.3	
5 - Regionals*	6.836.646	6,755,085	6.636.281	+1.2	+3.0	\$424,721,134	\$396,149,944	\$417,010,775	+7.2	+1.8	
99 - Special trains	7.045	8.020	9.050	-12.2	-22.2	\$1,011,903	\$1,067,843	\$1,457,121	-5.2	-30.6	
Subtotal	10,035,012	9,431,279	9,468,750	+6.4	+6.0	\$829,304,447	\$725,433,626	\$765,330,462	+14.3	+8.4	
State Supported and Other Short Distance	e Corridors										
3 - Ethan Allen	43,942	42,763	43,714	+2.8	+0.5	\$2,190,959	\$2,024,865	\$2,234,898	+8.2	-2.0	
4 - Vermonter	63,299	54,273	53,645	+16.6	+18.0	\$3,357,124	\$2,947,174	\$3,178,666	+13.9	+5.6	
7 - Albany-Niagara Falls-Toronto	288,365	298,159	293,614	-3.3	-1.8	\$16,854,750	\$15,943,468	\$16,972,715	+5.7	-0.7	
9 - Downeaster	361,634	337,921	350,373	+7.0	+3.2	\$4,800,036	\$4,559,208	\$4,735,032	+5.3	+1.4	
12 - New Haven-Springfield	320,852	318,066	286,389	+0.9	+12.0	\$8,840,099	\$7,830,307	\$7,753,754	+12.9	+14.0	
14 - Keystone	988,454	823,097	1,070,648	+20.1	-7.7	\$20,582,838	\$15,860,374	\$22,910,433	+29.8	-10.2	
15 - Empire (NYP-A) B)	957,583	918,241	906.491	+4.3	+5.6	\$38,592,354	\$34,683,321	\$37,215,156	+11.3	+3.7	
20 - Chicago-St Louis	408.807	262 320	421,961	+55.8	-3.1	\$8,822,785	\$6,183,734	\$9,999,367	+42.7	-11.8	
21 - Hiswatha	595,336	580,333	595.819	+2.6	-0.1	\$10,230,272	\$9,590,387	\$10,460,185	+6.7	-2.2	
22 - Wolverine	449,107	438,529	438.117	+2.4	+2.5	\$14,934,656	\$14,352,124	\$15,282,293	+4.1	-2.3	
23 - Chicago-Carbondale (Illing/Seluto)	228 695	136 640	243,915	+67.4	-6.2	\$6,187,835	\$4,097,292	\$7,329,538	+51.0	-15.6	
24 - Chicago-Quiney //L. Zashur/Carl Sandhuro)	169 258	119 719	211430	+41.4	-19.9	\$3,937,263	\$3,037,149	\$5,374,277	+29.6	-26.7	
29 Headland Elver	68 246	64 078	64 844	+6.5	+5.2	\$1,260,579	\$1,174,234	\$1,189,940	+7.4	+5.9	
25 - Realitand Tiyer	2 707 188	2 657 773	2 698 186	+1.9	+0.3	\$46 788 081	\$43,068,554	\$47,376,872	+8.6	-1.2	
28 Coordee	674 153	627 664	718921	+7.4	-6.2	\$18 165 351	\$16 524 315	\$20,360,791	+9.9	-10.8	
30 - Cascades	1 450 060	1 263 504	1 407 760	+14.8	.3.2	\$18,059,715	\$14 941 005	\$19.087.051	+20.9	-5.4	
37 - Capitol Comdor	904 795	700 870	810 895	+0.6	-0.8	\$24 544 160	\$24 502 495	\$26,809,616	+0.2	-8.5	
39 - San Joaquins	101.007	199,079	02108	+7.5	+0.0	\$5,065,860	54 443 126	\$4 767 024	+14.0	+6.3	
40 - Adirondack	107,037	122 822	129.234	+3.1	-0.5	\$3,557,216	\$3 356 033	\$3,687,630	+6.0	-3.5	
41 - Blue Water	401 510	401 361	300 401	+0.0	+0.5	\$20 914 840	\$21 145 321	\$22,951,589	-1.1	-8.9	
47 - Washington-Newport News	401,510	20,006	10 794	+31.1	133.2	\$529 270	\$393 595	\$415 547	+34.5	+27.4	
54 - Hoosler State	20,347	110.257	143.067	23	18.6	\$2 508 912	\$2 721 764	\$3 292 283	-7.8	-23.8	
56 - Kansas City-St. Louis	110,517	19,237	170 164	2.5	+0.5	56 620 783	\$7.036.861	\$7 575 842	-5.9	-12.6	
57 - Pennsylvanian	180,140	104,049	104 420	+2.1	+0.5	\$2,666,416	\$2 573 414	\$2,820,461	+3.6	-5.5	
65 - Pere Marquette	104,013	242,434	240 461	+5.2	+2.7	\$13 512 362	\$13,498,981	\$14 853 807	+0.1	-9.0	
oo - Carolinian	250,212	£2,43,434	55 671	61	.0.2	\$831 383	\$804.482	\$877.082	+3.3	-5.2	
67 - Pleamont	50,551	55,640	55,071	-0.1	-0.2	\$4 978 943	\$4 580 194	\$4 905 759	+6.5	-0.5	
74-81 - Buses	19 644	50 652	46 120	18.5	15.5	\$4,672,011	\$5 943 512	\$4 877 083	-22.2	-5.2	
96 - Special Trains	48,044	59,052	40,120	-10.5	+5.5	\$4,022,511	6297 947 209	\$320 204 697	+0.0	-17	
Subtotal	11,993,252	11,144,430	12,124,172	+7.0	1.1	3313,857,753	3287,817,288	\$325,254,087	+9.0	-4.1	
Long Distance	220 122	211 500	207 866	+5.7	+10.5	\$25 715 553	\$25 080 837	\$25 354 689	+2.5	+1.4	
16 - Silver Star	329,132	05.076	297,000	+1.0	+3.8	\$5 453 083	\$5 552 736	\$5 883 768	-1.8	-7.3	
18 - Cardinal	90,890	272 970	260 845	+6.0	+9.0	\$27 379 452	\$25 972 938	\$27,700,028	+5.4	-1.2	
19 - Silver Meteor	291,735	407.020	209,040	+1.6	+3.0	\$53 177 760	\$48 695 783	\$51 521 806	+9.2	+3.2	
25 - Empire Builder	102 749	497,020	109 307	22	23	\$14 877 428	\$14 638 855	\$15 631 808	+1.6	-4.8	
26 - Capitol Ltd.	193,740	225 442	222.212	-2.2	12.3	\$35 710 610	\$35 111 789	\$35 921 025	+17	-0.6	
27 - California Zepnyr	329,840	335,445	205.072	+5.4	+7.3	\$37,035,113	\$35,616,121	\$37,870,066	+6.5	+0.2	
28 - Southwest Chief	310,000	175 227	161 001	+3.4	+11.5	\$12 211 213	\$12 497 624	\$12 384 904	+6.6	+7.5	
30 - City of New Orleans	180,473	175,237	000,001	+3.0	44	\$16,404,146	\$16 930 655	\$17.067.509	-2.5	-3.8	
32 - Texas Eagle	218,321	232,054	228,284	-0.2	-4.4	\$10,424,140	\$10,039,033	\$5 169 442	+31 7	+34.6	
33 - Sunset Ltd.	63,336	008,10	00,825	+22.1	+7.0	\$20,933,081	\$27 740 020	\$26 035 963	+5.2	+12.0	
34 - Coast Starlight	343,542	331,939	318,639	+3.5	1.8	\$23,171,278	\$21 940 125	\$23,258,043	-1 0	-7.9	
45 - Lake Shore Ltd.	312,643	323,480	314,616	-3.4	-0.7	\$21,421,007 \$11,290,047	\$10,905,479	\$11 904 002	+4.4	-5.2	
48 - Paimetto	156,998	146,083	144,689	+7.5	+0.5	\$11,200,047	\$10,005,478	\$22 457 495	+5.5	+8.0	
52 - Crescent	263,136	252,072	234,585	+4.4	+12.2	924,202,1/1	\$40 351 664	\$51 408 674	+7.2	+2.0	
b3 - Auto Train	217,822	207,544	208,675	+5.0	+4,4	952,003,481	\$40,501,004	\$360 569 400	16.0	-1.0	
Subtotal	3,819,267	3,731,256	3,629,593	+2.4	+5.2	\$3/5,967,883	5358,UZU,941	\$309,008,122	+5.0	+1./	

F	Y	n	7	
	•••	~		

\* Regionals excludes NJT reimbursable indership & ticket revenues in FY06

Amtrak Total

25,847,531 24,306,965 25,222,515 +6.3 +2.5 \$1,519,130,083 \$1,371,271,855 \$1,464,193,270 +10.8

+3.8

#### National Railroad Passenger Corporation (Amtrak) Financial Performance of Routes - Strategic Business Line (SBL) format September 2006 YTD

RT70

Total

Route Performance Results Exclude Federal Support for Operations, Unallocated System costs and Capital Charges All numbers are in \$millions except Passenger Wile and Seat Mile Calculations.

\$0.0

\$73.4

\$0.

\$226.5

\$0

\$794.7

Total Shared Costs \$99.4 \$195.4 \$0.0 \$0.2 \$0.2 Contribution / (Loss) per Pass Mile (cents) 28 5 14 6 Total Attributed Costs \$212 Northeast Corridor Trains Route Number Train Name RT0102 Acela/Metroli Contribution / (Loss) after Avoidable Costs \$234.1 Contribution / (Loss) (Exclude Dep & Int) \$134 Direct Labor \$23.2 \$49.8 \$0.2 \$0.3 \$0.5 Total Avoidabl atal A voidabi Costs \$113.4 \$185.4 \$0.2 \$1.0 \$0 Total ther Direc 
 Total

 Revenue

 \$347 5

 \$439 9

 \$0 0

 \$7 3
 Costs \$90.3 \$135.6 \$0.0 \$0.6 \$212 \$370 \$0 2 \$1 1 28 5 \$254.6 (\$0.2) \$6.3 RT05 RT91 RT06/98/99 NCeanner Regional NEC Unknown (Crew Labor) NEC Special Trains NEC Bus Route \$69.2 (\$0.2 \$6.1

\$299.9

State Supp	orted and Other				Total	Contribution (	Total	Total	Contribution (	Contribution (	Contribution (
Route	Train Name	Total Revenue	Direct	Other Direct	Avoidable	(Loss) after Avoidable Costs	Shared	Attributed	(Loss) (Exclude Dep & Int)	(Loss) per Pass Mile (cents)	(Loss) per Seat Mile (cents)
RT03	Ethan Allen Express	\$2.8	\$0.7	\$1.7	\$24	\$0.4	\$12	\$3.6	(\$0.8)	(9.7)	(3.7)
RT04	Vermonter	\$5.4	\$1.7	\$2.8	\$4.4	\$1.0	\$1.5	\$5.9	(\$0.5)	(2.9)	(0.9)
RT07	Albeny-Niagara Falls-Toronto	\$16.9	\$5.6	\$8.2	\$13.8	\$3.1	\$8.9	\$227	(\$5.8)	(6.4)	(2.9)
RT09	The Downeaster	\$9.0	\$1.9	\$4.0	\$5.9	\$3.1	\$2.7	\$8.7	\$0.4	1.4	04
RT12	New Haven - Springfield	\$7.8	\$3.4	\$9.8	\$13.2	(\$5.3)	\$8.6	\$217	(\$13.9)	(55.7)	(18.3)
RT14	Keystone Service	\$23.7	\$5.2	\$12.3	\$17.5	\$6.2	\$18.4	\$35.9	(\$12.2)	(17.3)	(7.0)
RT 15	Empire Service	\$36.9	\$9.1	\$218	\$30.9	\$6.0	\$28.2	\$59.0	(\$22.1)	(19.6)	(6.5)
RT20	Chicago-St Louis	\$11.4	\$2.6	15.9	\$8.5	\$2.9	\$6.3	\$14.8	(\$3.4)	(7.1)	(3.7)
RT21	Hawathas	\$20.2	\$3.0	\$5.7	\$8.8	\$115	\$12.3	\$21.1	(\$0.9)	(19)	(0.7)
RT22	Wolvennes	\$17.0	\$4.9	\$10.6	\$15.5	\$15	\$11.6	\$27.1	(\$10.1)	(10.7)	(6.4)
RT23	Itin	\$8.4	\$1.4	\$3.1	\$44	\$4.0	\$3.9	\$8.3	\$0.1	0.5	0.3
RT24	Illinois Zephyr	\$7.2	\$1.3	\$2.6	\$3.9	\$3.3	\$2.9	\$6.8	\$0.5	2.3	12
RT29	Heartland Elver	\$4.9	\$1.2	\$2.4	\$3.6	\$13	\$1.2	\$4.8	\$0.1	0.9	03
RT35	Pacific Surfliner	\$69.1	\$14.7	\$39.3	\$54.0	\$15.1	\$29.2	\$83.2	(\$14.1)	(6.4)	(2.1)
RT36	Cascades	\$36.4	\$8.5	\$16.8	\$25.2	\$11.2	\$13.1	\$38.3	(\$1.9)	(2.1)	(1.0)
RT37	Capitols	\$35.6	\$9.6	\$20.0	\$29.5	\$6.0	\$14.5	\$44.0	(\$8.4)	(97)	(2.8)
RT39	San Joaquins	\$51.9	\$10.4	\$36.4	\$46.7	\$5.2	\$11.8	\$58.5	(\$6.6)	(5.4)	(1.9)
RT40	Adrondark	\$8.7	\$2.1	\$3.8	\$5.9	\$2.8	\$2.8	\$8 7	(\$0.0)	(0.1)	(0.1)
RT41	Blue Water	\$7.7	\$1.8	\$3.2	\$5.0	\$2.8	\$3.2	\$8.2	(\$0.5)	(1.9)	(0.9)
RT47	Washington-Newport News	\$23.0	\$4.2	\$10.1	\$14.4	\$8.7	\$9.3	\$237	(\$0.6)	(0.8)	(0.4)
RT54	Hoosier State	\$0.5	\$0.5	\$1.2	\$1.7	(\$1.2)	\$1.1	\$2.8	(\$2.3)	(71.0)	(39.8)
RT56	Kansas City-St Louis	\$9.3	\$2.9	\$4.2	\$7.0	\$23	\$3.0	\$10.1	(\$0.7)	(3.2)	(1.1)
RT57	Pennsylvanian	\$7.7	\$2.1	\$3.7	\$5.8	\$1.9	\$5.9	\$117	(\$4.0)	(8.9)	(5.8)
RT65	Pere Marquette	\$6.7	\$1.1	\$1.9	\$3.0	\$3.8	\$2.3	\$5.3	\$1.4	9.2	5.5
RT66	Cerolinian	\$17.2	\$3.9	\$6.4	\$10.3	\$6.9	\$7.0	\$17.3	(\$0.0)	(0.0)	(0.0)
RT67	Piedmont	\$2.3	\$0.8	\$0.3	\$12	\$1.2	\$1.4	\$2.6	(\$0.2)	(3.4)	(17)
RT92	Central Unknown (Crew Labor)	\$0.0	\$0.3	\$0.0	\$0.3	(\$0.3)	\$0.0	\$0.3	(\$0.3)		
RT93	Crew Labor	\$0.0	\$0.1	\$0.0	\$0.1	(\$0.1)	\$0.0	\$0.1	(\$0.1)		
RT96	Non NEC Special Trains	\$5.4	\$0.8	\$2.1	\$2.9	\$2.4	\$0.5	\$3.5	\$1.9	77	79
10000 (C.C.)	State Supported Rt Buses	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		***
	Total	\$453.4	\$105.6	\$240.2	\$345.8	\$107.6	\$212.6	\$558.4	(\$105.0)	(7.3)	(3.0)

\$0.

\$494.8

\$284.9

\$0

\$584.9

\$0.0

14

\$209.8

Long Dista	nce Trains				Total	Contribution /	Total	Total	Contribution (	Contribution /	Contribution /
Route Number	Train Name	Total Revenue	Direct Labor	Other Direct Costs	Avoidable Costs	(Loss) after Avoidable Costs	Shared Costs	Attributed Costs	(Loss) (Exclude Dep & Int)	(Loss) per Pass Mile (cents)	(Loss) per Seat Mile (cents)
RT16	Silver Star	\$29.1	\$18.1	\$27.1	\$45.2	(\$16.1)	\$24.4	\$69.6	(\$40.5)	(217)	(11.9)
RT17	Three Rivers	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		
RT18	Cardinal	\$6.7	\$4.8	\$7.5	\$12.3	(\$5.6)	\$6.8	\$19.1	(\$12.5)	(32 1)	(16.5)
RT 19	Silver Meteor	\$29.4	\$16.3	\$24.6	\$40.9	(\$11.5)	\$22.8	\$63.8	(\$34.3)	(19.4)	(11.2)
RT25	Empire Builder	\$53.9	\$26.8	\$37.3	\$64.1	(\$10.3)	\$25.2	\$89.3	(\$35.5)	(95)	(5.6)
RT26	Capitol Limited	\$17.4	\$9.5	\$14.4	\$23.9	(\$6.5)	\$16.0	\$39.8	(\$22.5)	(22.9)	(14.1)
RT27	California Zephyr	\$40.7	\$27.2	\$40.4	\$67.5	(\$26.8)	\$23.4	\$91.0	(\$50.3)	(16.8)	(9.5)
RT28	Southwest Chief	\$40.2	\$20.7	\$47.0	\$67.7	(\$27.5)	\$25.9	\$93.6	(\$53.3)	(18.3)	(11.5)
RT30	City of New Orleans	\$14.1	\$7.6	\$14.5	\$22.2	(\$8.0)	\$9.1	\$31.3	(\$17.1)	(21.1)	(10.4)
RT32	Texas Eagle	\$19.4	\$14.0	\$21.9	\$35.8	(\$16.5)	\$12.3	\$48.2	(\$28.8)	(20.9)	(10.3)
RT33	Sunset Limited	\$6.4	\$12.1	\$13.4	\$25.6	(\$19.1)	\$8.2	\$33.8	(\$27.3)	(57 2)	(25.6)
RT34	Coast Sterlight	\$31.8	\$23.9	\$32.3	\$56.1	(\$24.3)	\$19.7	\$75.9	(\$44.1)	(22 1)	112 51
RT45	Lake Shore Limited	\$24.6	\$13.5	\$21.5	\$35.0	(\$10.4)	\$25.8	\$61.8	(\$37.2)	(24 7)	(15.7)
RT48	Paimetto	\$12.5	\$5.3	\$9.4	\$14.7	(\$2.2)	\$9.0	\$23.7	(\$11.2)	(17 2)	(7.6)
RT52	Crescent	\$26.5	\$15.3	\$25.6	\$40.8	(\$14.4)	\$22.1	\$62.9	(\$36.4)	(26.9)	(13.2)
RT63	Auto Train	\$50.1	\$16.7	\$28.4	\$45.1	\$5.0	\$17.2	\$62.3	(\$12.2)	(6.8)	(3.6)
	Total	\$402.7	\$231.9	\$365.0	\$596.9	(\$194.2)	\$269.0	\$866.0	(\$463.2)	(19.1)	(10.5)
	Total All Trains	\$1,650.8	\$411.0	\$831.7	\$1,242.6	\$408.2	\$766.6	\$2,009.3	(\$358.4)	(6.8)	(3.2)

Reconciling Items between SBL and Consolidated Statement of Operations

	Kevenne	Cupense	1461
Total National Train System	\$1,650.8	\$2,009.3	(\$358.4)
Infrastructure Management	\$186.4	\$244.5	(\$58.1)
Ancillary Businesses	\$265.9	\$181.4	\$84.5
Unallocated System	\$2.4	\$200.8	(\$198.4)
Eliminations	(\$97.6)	(\$97.6)	\$0.0
Operating Results	\$2,009.5	\$2,538.4	(\$528.9)
Interest Expense, Net	\$0.0	\$105.1	(\$105 1)
Depreciation	\$0.0	\$467 1	(\$467 1)
Federal and State Capital Payments	\$33.0	\$0.0	\$33.0
Net (Income) Loss from Discont Ops	\$0.0	\$0.0	\$0.0
Net Results	\$2,042.6	\$3,110.6	(\$1,068.0)

Notes: - Prior year data may not match previously published reports at the individual route level FY07 Route Structure reflects Strategic Business Line format - Direct Lobir represents T&B and OBS wages, benefits and support - Other Direct Costs include Host Rairoad MoW and Performance Incentives. Fuel and Power, Car and Locomotive maint and Turnaround Costs, Commissions, Reservations, Call Centers, Psgr Inconvenience, and Route Stations - Titel Avoidable Costs equals Direct Labor plus Other Direct Costs - Shared Costs include Shared Stations, MeS Supervision and Training, Yard Ops, Merkebing and Distribution. Insurance, Terminal Payments, Procurement/Purchasing, Poleaburonmental and Safety, T&E Overhead, NTS Infrastructure, and System Costs - Total Attibuted Costs equals Total Avoidable Costs plus Shared Costs

3.0

_	1	~	-
-	Y	u	D
	•	•	-

		Ride	ership			Ticket Revenue						
				% char	nge vs.				% char	nge vs.		
NEC Spine	FY06	FY05	Budget	FY05	Budget	FY06	FY05	Budget	FY05	Budget		
1/2 - Acela/Metroliner	2.668,174	2,452,902	2,623.801	+8.8	+1.7	\$328,215,839	\$276,211,184	\$350,364,221	+18.8	-6.3		
5 - Regionals'	6,755,085	7,115,698	6.591.576	-5.1	+2.5	\$396,149,944	\$368,675,501	\$363,106,766	+7.5	+9.1		
99 - Special trains	8,020	17,580	6,725	-54.4	+19.3	\$1,067,843	\$1,219,518	\$1,055,000	-12.4	+1.2		
Subtotal	9 431 279	9.586.180	9,222,102	-1.6	+2.3	\$725,433,626	\$646,106,203	\$714,525,987	+12.3	+1.5		
			.,,									
State Supported and Other Short Di	stance Corrido	ors										
3 - Ethan Allen	42,763	37,371	38,299	+14.4	+11.7	\$2,024,865	\$1,694,530	\$1,858,757	+19.5	+8.9		
4 - Vermonter	54,273	49,864	50.604	+8.8	+7.3	\$2,947,174	\$2,842,230	\$3,062,612	+3.7	-3.8		
7 - Albany-Niagara Falls-Toronto	298,159	272.665	275,988	+9.3	+8.0	\$15,943,468	\$14.034.392	\$14,759,723	+13.6	+8.0		
9 - Downeaster	337,921	274.966	267.085	+22.9	+26.5	\$4,559,208	\$3,585,128	\$3,761,373	+27.2	+21.2		
12 - New Haven-Springfield	318.066	319.373	300,398	-0.4	+5.9	\$7,830,307	\$6,412,231	\$6,694,441	+22.1	+17.0		
14 - Keystone	823,097	730,360	723,728	+12.7	+13.7	\$15,860,374	\$13,746,943	\$14,344,142	+15.4	+10.6		
15 - Empire (NYP-ALB)	918,241	928,058	865,649	-1.1	+6.1	\$34,683,321	\$32,639,335	\$34,306,053	+6.3	+1.1		
20 - Chicago-St. Louis	262,320	242.144	231,362	+8.3	+13.4	\$6.183,734	\$5,353,840	\$5,474,793	+15.5	+12.9		
21 - Hiawatha	580,333	525,239	512.671	+10.5	+13.2	\$9.590.387	\$8,409,534	\$8,828,466	+14.0	+8.6		
22 - Wolverine	438,529	406.499	398,496	+7.9	+10.0	\$14,352,124	\$11,751,120	\$12,524,971	+22.1	+14.6		
23 - Illini	136,640	127.808	121,371	+6.9	+12.6	\$4.097.292	\$3,422,753	\$3,521,253	+19.7	+16.4		
24 - Illinois Zephyr	119,719	118,493	112,792	+1.0	+6.1	\$3,037,149	\$2,716,432	\$2,797,287	+11.8	+8.6		
29 - Heartland Flyer	64,078	66,968	63,979	-4.3	+0.2	\$1,174,234	\$1,187,567	\$1,214,424	-1.1	-3.3		
35 - Pacific Suffiner	2.657.773	2,520,444	2,591,416	+5.4	+2.6	\$43,068,554	\$37.043,513	\$39,608,787	+16.3	+8.7		
36 - Cascades	627,664	623.255	613.034	+0.7	+2.4	\$16,524,315	\$15,168,349	\$15,462,087	+8.9	+6.9		
37 - Capitols	1,263,504	1,260.249	1,282,158	+0.3	-1.5	\$14,941,005	\$14,122,233	\$14,621,235	+5.8	+2.2		
39 - San Joaquins	799,879	755.851	753.034	+5.8	+6.2	\$24,502,495	\$21,311,205	\$21,973,551	+15.0	+11.5		
40 - Adirondack	94.021	86,744	85.247	+8.4	+10.3	\$4,443,126	\$3,960,271	\$4,189,678	+12.2	+6.0		
41 - Blue Water	123,823	111,630	108,000	+10.9	+14.7	\$3,356,033	\$2,757,061	\$2,869,247	+21.7	+17.0		
47 - Washington-Newport News	401.361	438,115	436,446	-8.4	-8.0	\$21,145,321	\$20,825,464	\$22,585,522	+1.5	-6.4		
54 - Hoosier State	20.096	20,191	19.743	-0.5	+1.8	\$393,595	\$346,255	\$355,154	+13.7	+10.8		
56 - Kansas City-St Louis	119 257	136,701	133.407	-12.8	-10.6	\$2,721,764	\$3,112,244	\$3,243,053	-12.5	-16.1		
57 - Pennsylvanian	184 049	189 345	176 523	-2.8	+4.3	\$7,036,861	\$7,756,672	\$6,826,310	-9.3	+3.1		
65 - Pere Marquette	101 932	96.471	95.518	+5.7	+6.7	\$2,573,414	\$2,144,443	\$2,284,395	+20.0	+12.7		
66 - Camlinian	243 434	219 418	243.764	+10.9	-0.1	\$13,498,981	\$10,630,083	\$12,576,351	+27.0	+7.3		
67 - Piedmont	53,846	45,851	44.749	+17.4	+20.3	\$804,482	\$625,407	\$649.073	+28.6	+23.9		
74-81 - Buses		-	-	-		\$4,580,194	\$4,088,575	\$4,158,202	+12.0	+10.1		
96 - Special Trains	59.652	59,865	16.800	-0.4	+255.1	\$5,943,512	\$5,457,397	\$3,055,000	+8.9	+94.6		
Subtotal	11 144 430	10 663 038	10 562 261	+4.5	+5.5	\$287 817 288	\$257.145.207	\$267,605,940	+11.9	+7.6		
Subtota	11,111,100	10,000,000	10,002,201						1000			
Long Distance												
16 - Silver Star	311.509	295,709	332,357	+5.3	-6.3	\$25.080.837	\$22,410,663	\$28,088,850	+11.9	-10.7		
18 - Cardinal	95.076	90.542	88,311	+5.0	+7.7	\$5,552,736	\$4,788,362	\$4,987,269	+16.0	+11.3		
19 - Silver Meteor	272,879	288,457	285,370	-5.4	-4.4	\$25,972,938	\$25,127,911	\$25,401,714	+3.4	+2.2		
25 - Empire Builder	497.020	476,531	477,652	+4.3	+4.1	\$48,695,783	\$42,131,741	\$46,099,462	+15.6	+5.6		
26 - Capitol Ltd.	198,044	195,051	209,855	+1.5	-5.6	\$14,638,855	\$13.093.077	\$14,373,355	+11.8	+1.8		
27 - California Zephyr	335,443	347.856	363,565	-3.6	-7.7	\$35,111,789	\$33,196,514	\$36,181,090	+5.8	-3.0		
28 - Southwest Chief	300,416	295,515	303,335	+1.7	-1.0	\$35,616,121	\$32,473,686	\$34,879,784	+9.7	+2.1		
30 - City of New Orleans	175,237	183.237	184,446	-4.4	-5.0	\$12,487,624	\$11,869,134	\$12.891,017	+5.2	-3.1		
32 - Texas Eagle	232,654	239,276	232,708	-2.8	-0.0	\$16,839,655	\$15,978,146	\$16,752,514	+5.4	+0.5		
33 - Sunset Ltd.	51.860	81.348	84,238	-36.2	-38.4	\$5,282.241	\$9,375,374	\$9,986,800	-43.7	-47.1		
34 - Coast Starlight	331.939	372.304	372,023	-10.8	-10.8	\$27,740,039	\$27,386,338	\$29.106.861	+1.3	-4.7		
45 - Lake Shore Ltd.	323.480	312.779	296,193	+3.4	+9.2	\$21.840.125	\$20.048.928	\$21,237,170	+8.9	+2.8		
48 - Palmetto	146,083	134,669	120.325	+8.5	+21.4	\$10,805,478	\$8,664,475	\$8,984,036	+24.7	+20.3		
52 - Crescent	252.072	263,080	258,979	4.2	-2.7	\$23,005,056	\$22,355,583	\$23,405,535	+2.9	-1.7		
63 - Auto Train	207,544	204,698	206.390	+1.4	+0.6	\$49,351,664	\$47.045,471	\$49,113,563	+4.9	+0.5		
Subtotal	3,731,256	3,781,052	3,815,747	.1.3	-2.2	\$358,020,941	\$335,945,403	\$361,489,019	+6.6	-1.0		
Amtrak Total	24,306,965	24,031,170	23,600,110	+1.1	+3.0	\$1,371,271,855	\$1,239,196,813	\$1,343,620,946	+10.7	+2.1		

Reconciling items to Operating Income Statement:

Food and Beverage Credit	(30,509,232)	(32,139,709)	(32,886,187)
Other Passenger Revenue	3,224,349	4,110,466	2,700,000
Guest Rewards	(1,945,972)	(6,451,098)	(8,927,510)
Private Car Movements	1,653,940	1,812,112	999,600
Adjustment for Deferred Revenue	2,001,528	0	0
Adjustment for Clockers	605,062	9,554,622	<u>0</u>
Net Ticket Revenue per Operating Statement	\$1,346,301,530	\$1,216,083,206	\$1,305,506,849

Notes: - Data reflects new route definitions for FY06 - FY06 indership and ticket revenues reflect deferred indership of 418,468 and deferred ticket revenues of \$23,500,509 • Regionals excludes NUT reinbursable indership & ticket revenues in both FV05 and FY06.

## National Railroad Passenger Corporation (Amtrak)

Financial Performance of Routes - Strategic Business Line (SBL) format

September 2005 YTD

Route Performance Results Exclude Federal Support for Operations, Unallocated System costs and Capital Charges

All numbers are in	\$ millions	except	Passeng	et wite at	IO Peat Mille	Calchiadou

Northeast Co	orridor Trains				Total	Contribution /	Total	Total	Contribution /	Contribution /	Contribution /
Route Number	Train Name	Total Revenue	Direct Labor	Other Direct Costs	A voidable Costs	(Loss) after Avoidable Costs	Shared Costs	Attributed Costs	(Loss) (Exclude Dep & Int)	(Loss) per Pass Mile (cents)	(Loss) per Seat Mile (cents)
RT01/02	Acela/Metroliner	\$290.2	\$23 5	\$56.1	\$79.6	\$210.6	\$77.4	\$157.0	\$133.2	31.6	15-1
RT05	Regional	\$403.4	\$50 1	\$100.7	\$150.7	\$2527	\$161.1	\$311.8	\$91.6	8.8	3.8
RT91	NEC Unknown (Crew Labor)	(\$0.1)	\$0.4	\$0.0	\$0.4	(\$0.5)	\$0.0	\$0.4	(\$0.5)		
RT06/98/99	NEC Special Trains	\$3.3	\$0.2	\$0.5	\$0.7	\$2.6	\$0.1	\$0.9	\$2.4		
RT70	NEC Bus Route	\$0.4	\$0.0	\$0.0	\$0.0	\$0.4	\$0.0	\$0.0	\$0.4		***
	Total	\$697.2	\$74.3	\$157.2	\$231.5	\$465.7	\$238.6	\$470.1	\$227 1	15.5	6.9

State Supp Short Dista	orted and Other ance Corridor Trains				Total	Contribution /	Total	Total	Contribution /	Contribution /	Contribution /
Route	Train Name	Total	Direct	Other Direct	Avoidable	(Loss) after Avoidable Costs	Shared Costs	Attributed Costs	(Loss) (Exclude Dep & Int)	(Loss) per Pass Mile (cents)	(Loss) per Seat Mile (cents)
RT03	Ethan Allen Express	\$2.5	\$0.7	\$1.4	\$21	\$0.5	\$10	\$3.1	(\$0.5)	(7.0)	(2.2)
RT04	Vermonter	\$5.2	\$15	\$2.4	\$3.9	\$1.3	\$1.4	\$5.3	(\$0.1)	(0.5)	(0.1)
RT07	Albany-Niagara Falls-Toronto	\$14.8	\$5.3	\$3.4	\$13.7	\$12	\$8.6	\$22.3	(\$7.4)	(9.0)	(3.3)
RT09	The Downeaster	\$7.8	\$1.8	\$3.5	\$5.3	\$2.5	\$2.0	\$7.3	\$0.5	2.0	0.6
RT12	New Haven - Sonnofield	\$5.9	\$3.4	\$8.9	\$12.3	(\$6.4)	\$8.7	\$21.1	(\$15.2)	(64.3)	(19.3)
RT14	Keystone Service	\$25.4	\$5.3	\$10.4	\$15.7	\$9.7	\$17.0	\$32.7	(\$7.3)	(111)	(5.1)
RT15	Empire Service	\$34.3	\$9.2	\$19.5	\$28.7	\$5.6	\$18.9	\$47.6	(\$13.3)	(11.7)	(3.6)
RT20	Chicago-St Louis	\$10.1	\$25	\$6.0	\$8.4	\$16	\$8.7	\$15.1	(\$5.0)	(113)	(5.4)
RT21	Hiawathas	\$17.6	\$3.1	\$5.7	\$88	\$8.8	\$13.5	\$22.3	(\$4.7)	(11.0)	(4.0)
RT22	Wolverines	\$14.0	\$4.9	\$10.0	\$15.0	(\$0.9)	\$116	\$26.5	(\$12.5)	(14.2)	(7.2)
RT23	Illini	\$7.7	\$1.3	\$3.2	\$45	\$3.2	\$3.8	\$8.3	(\$0.7)	(2.5)	(1.3)
RT24	Illinois Zephyr	\$6.8	\$13	\$2.4	\$3.7	\$3.1	\$3.0	\$6.7	\$0.1	0.5	0.2
RT29	Heartland Fiver	\$4.9	\$12	\$2.4	\$35	\$13	\$1.1	\$4.6	\$0.3	2.4	0.9
RT35	Pacific Surfliner	\$60.9	\$13.6	\$33.8	\$47.3	\$13.6	\$24.6	\$72.0	(\$11.1)	(5.5)	(18)
RT36	Cascades	\$32.3	\$8.2	\$15.5	\$23.7	\$8.6	\$12.0	\$35.8	(\$3.4)	(38)	(1.7)
RT37	Capitols	\$34.7	\$9.1	\$18.8	\$27.9	\$6.8	\$12.9	\$40.8	(\$6.1)	(71)	(2.0)
RT39	San Joaquins	\$44.6	\$10.5	\$31.6	\$42.1	\$25	\$10.8	\$52.9	(\$8.3)	(72)	(2.4)
RT40	Adrondack	\$8.7	\$1.9	\$4.0	\$58	\$2.9	\$2.1	\$7.9	\$0.8	3.3	20
RT41	Blue Water	\$7.0	\$1.6	\$3.1	\$4.7	\$2.3	\$3.2	\$8.0	(\$0.9)	(4.2)	(1.9)
RT47	Washington-Newport News	\$22.0	\$3.9	\$8.2	\$12.2	\$9.8	\$3.5	\$20.7	\$13	15	0.8
RT54	Hoosier State	\$0.4	\$0.5	\$1.0	\$15	(\$1.0)	\$1.1	\$2.6	(\$2.2)	(66.1)	(37.1)
RT56	Kansas City-St Louis	\$9.6	\$2.8	\$4 5	\$7.3	\$2.2	\$2.9	\$10.2	(\$0.7)	(24)	(0.9)
RT57	Pennsylvanian	\$5.7	\$17	\$2.4	\$4.1	\$16	\$4.5	\$8.7	(\$3.0)	(97)	(5.2)
RT65	Pere Marquette	\$6.2	\$1.2	\$1.7	\$3.0	\$3.3	\$2.4	\$5.4	\$0.8	5.7	34
RT66	Carolinian	\$13.4	\$3.6	\$5.2	\$8.7	\$47	\$5.9	\$14.6	(\$1.2)	(17)	(0.9)
RT67	Predmont	\$2.2	\$0.8	\$0.3	\$1.1	\$1.1	\$1.2	\$2.3	(\$0.1)	(2.0)	(0.8)
RT92	Central Unknown (Crew Labor)	(\$0.1)	\$0.5	\$0.0	\$0.5	(\$0.5)	(\$0.0)	\$0.5	(\$0.5)		1.111
RT93	Crew Labor	\$0.0	\$0.2	\$0.0	\$0.2	(\$0.2)	\$0.0	\$0.2	(\$0.2)		
RT96	Non NEC Special Trains	\$7.7	\$0.9	\$1.8	\$27	\$4.9	\$0.5	\$3.3	\$4.4	16.5	9.3
	State Supported Rt Buses	\$11.5	\$0.0	\$0.0	\$0.0	\$115	\$0.0	\$0.0	\$115		
	Total	\$424.0	\$102.5	\$216.2	\$318.6	\$105.4	\$190.0	\$508.6	1\$34.61	16.21	(2.4)

Long Dista	nce Trains				Total	Contribution /	Total	Total	Contribution /	Contribution /	Contribution /
Route Number	Train Name	Total Revenue	Direct Labor	Other Direct Costs	Avoidable Costs	(Loss) after Avoidable Costs	Shared	Attributed Costs	(Loss) (Exclude Dep & Int)	(Loss) per Pass Mile (cents)	(Loss) per Seat Mile (cents)
RT16	Silver Star	\$25.2	\$17.9	\$25.7	\$43.6	(\$18.5)	\$21.2	\$64.9	(\$39.7)	(216)	(11.9)
RT17	Three Rivers	\$3.9	\$3.0	\$4.0	\$7.0	(\$3.1)	\$5.8	\$12.8	(\$8.8)	(30 1)	(12.9)
RT 18	Cardinal	\$5.8	\$5.0	\$6.9	\$11.9	(\$6.2)	\$2.7	\$14.7	(\$8.9)	(23.7)	(119)
RT 19	Silver Meteor	\$27.8	\$15.8	\$23.8	\$39.6	(\$11.8)	\$20.9	\$60.5	(\$32.7)	(17.6)	(10.7)
RT25	Empire Builder	\$46.3	\$25.3	\$36.6	\$62.0	(\$157)	\$23.2	\$85.1	(\$38.9)	(10.8)	(6.2)
RT26	Capitol Limited	\$14.9	\$9.4	\$13.2	\$22.6	(\$7.7)	\$15.2	\$37.9	(\$22.9)	(23.9)	(15.0)
RT27	California Zephyr	\$37.2	\$26.3	\$36.6	\$62.8	(\$25.7)	\$22.2	\$85.0	(\$47.9)	(17.3)	(9.5)
RT28	Southwest Chief	\$36.3	\$21.5	\$41.2	\$62.7	(\$26.4)	\$25.0	\$87.6	(\$51.4)	(17.4)	(10.9)
RT30	City of New Orleans	\$13.4	\$8.0	\$14.9	\$22.9	(\$9.5)	\$10.1	\$32.9	(\$ 19 5)	(22.8)	(116)
RT32	Texas Eagle	\$18.2	\$13.7	\$19.8	\$33.4	(\$15.2)	\$12.3	\$45.8	(\$27.5)	(18 7)	(9.4)
PT33	Sunset Limited	\$10.8	\$15.9	\$15.0	\$30.9	(\$20.2)	\$10.8	\$417	(\$30.9)	(34.8)	(20.4)
RT34	Coast Starlight	\$30.8	\$22.0	\$27.5	\$49.5	(\$18.8)	\$17 6	\$67 1	(\$36.3)	(17.0)	(10 5)
RT45	Lake Shore Limited	\$22.3	\$12.9	\$19.1	\$32.0	(\$9.7)	\$23.9	\$55.9	(\$33.6)	(216)	(13.9)
RT48	Palmetto	\$10.1	\$5.6	\$8.5	\$14.1	(\$4.0)	\$9.9	\$24.0	(\$14.0)	(24.4)	(9.1)
RT52	Crescent	\$25.1	\$14.5	\$23.0	\$37.5	(\$12.4)	\$20.1	\$57.6	(\$32.5)	(23.0)	(115)
RT63	Auto Train	\$47.2	\$15.0	\$26.8	\$41.8	\$5.4	\$15.1	\$56.9	(\$9.7)	(5.5)	(3.1)
	Total	\$375.1	\$231.8	\$342.6	\$574.4	(\$199.3)	\$255.9	\$830.4	(\$455.3)	(18.0)	(10.2)
	Total All Trains	\$1 496 4	\$408.6	\$716.0	\$1,124.6	\$3718	\$684.5	\$1,809 1	(\$312.7)	(58)	(2.8)

Reconciling Items between SBL and Consolidated Statement of Operations

	Revenue	Expense	Net
Total National Train System	\$1,496.4	\$1,809.1	(\$312.7)
Infrastructure Management	\$123.4	\$237.5	(\$114.2)
Ancillary Businesses	\$263.6	\$177 8	\$85.8
Unallocated System	\$6.7	\$174.6	(\$167.8)
Eliminations	(\$35.1)	(\$35.1)	\$0.0
Operating Results	\$1,857.6	\$2,363 9	(\$506.3)
Interest Expense, Net	\$0.0	\$125.0	(\$124.7)
Depreciation	\$0.0	(\$576.3)	(\$576 3)
Federal and State Capital Payments	\$28 7	\$0.0	\$28.7
Net (Income) Loss from Discont Ops	\$0.0	(\$13.6)	(\$13.6)
Net Results	\$1,886.3	\$1,898.9	(\$1,192.3)

Notes
- Prior year data may not match previously published reports at the individual route level. FYOR Route Structure reflects Strategic Business Line format. -Direct Labor represents TSE and OSB wages, benefits and support -Other Direct Costs incluse Host Railroad MoW and Performance incentives, Fuel and Previc Car and Locomotive maint: and Turnaround Costs, Commissions, Reservations, Call Centers, PsyrInconvenience, and Route Stations - Total Avoidable Costs equals Direct Labor plus Other Direct Costs - -Shared Costs include Shared Stations, MoE Supervision and Training, Yard Ops, Merkeling and Distribution, Insurance, Terminal Payments, ProcurementPlurchasing, PoliceExprosmental and Safey, T&E Overhead, NTS Infrastructure, and System Costs.

## National Railroad Passenger Corporation September YTD FY05 Revenue and Ridership Data

	Teste Manua	Ridership Ticket Revenue						venue			
Route	I rain Name	Т	T		% cha	nge vs.				% char	nge vs.
Nor	theast Corridor Trains	FY05	FY04	Budget	FY04	Budget	FY05	FY04	Budget	FY04	Budget
RT01	Acela Express	1,772,868	2,568,935	2,873,340	(31.0)	(38.3)	\$204,494,310	\$294,654,392	\$330,790,551	(30.6)	(38.2)
RT02	Metroliner	680,034	397,608	284,445	71.0	139.1	71,716.874	41,123,945	28,516,558	74.4	151.5
RT05A	Regional/Federal	7,024,021	6,405,087	6,456,232	9.7	8.8	362,944,581	320,244,267	330,685,007	13.3	9.8
RT13	Clocker Service	1.560,856	1,945,553	1,987,030	(19.8)	(21.4)	15,501,566	17,943,641	18,366,970	(13.6)	(15.6)
	Total	11,037,779	11,317,183	11,601,047	(2.5)	(4.9)	654,657,331	673,966,245	/08,359,087	(2.9)	(7.6)
	ate Supported Trains										
BTOO	Ethan Allen Everage	111 694	108 100	109 999	3.2	1.6	4 520 902	4.355.061	4.424 189	3.8	2.2
PT04	Vermonter	264 082	252 238	255 247	4.7	3.5	14.827.947	13.538.514	13,707,987	9.5	8.2
RT09	The Downeaster	274 966	250.028	249.286	10.0	10.3	3,585,128	3,458,080	3,447,761	3.7	4.0
RT14	Keystone Service	1.068.572	901,170	943.270	18.6	13.3	25,511,255	19,861,096	21,067,693	28.4	21.1
RT20	Chicago-St.Louis	242.144	212,999	215,106	13.7	12.6	5,353,840	4,399,823	4,452,950	21.7	20.2
RT21	Hiawathas	525.239	460,430	490,847	14.1	7.0	8,409,534	7.567.323	8,092,903	11.1	3.9
RT23	Illini	127,808	113,281	113,784	12.8	12.3	3,422,753	2,963,855	2,987.574	15.5	14.6
RT24	Illinois Zephyr	118,493	108,856	110,198	8.9	7.5	2,716,432	2,405,535	2,442,739	12.9	11.2
RT29	Heartland Flyer	66.968	54.403	54,827	23.1	22.1	1,187,567	900,980	905,093	31.8	31.2
RT35	Pacific Surfliner	2.520.444	2,344.665	2,422,573	7.5	4.0	37.043.513	34,597,851	36,643,278	7.1	1.1
RT36	Cascades	623.255	597,161	594,670	4.4	4.8	15,168,349	13,931,592	14.137,635	8.9	7.3
RT37	Capitols	1,260,249	1,165,334	1,214,106	8.1	3.8	14,122,233	12,039,092	12,703,991	17.3	11.2
RT39	San Joaquins	755.851	738.540	733,596	2.3	3.0	21.311.205	20,207,164	20,518,960	5.5	3.9
RT40	Adirondack	125.165	132.700	134,424	(5.7)	(6.9)	5,441,106	5,800,720	5,890,662	(6.2)	(7.6)
RT41	Blue Water / International	111.630	94.378	105,095	18.3	6.2	2,757,061	2,278,929	2,621,735	21.0	5.2
RT56	Kansas City-St Louis	136,701	128,084	128,339	6.7	6.5	3,112,244	2,952,478	2,976,866	5.4	4.5
RT65	Pere Marquette	96.471	87,767	87,899	9.9	9.8	2.144.443	1,935,617	1,937,497	10.8	10.7
RT66	Carolinian	275.057	305,016	324,582	(9.8)	(15.3)	12,921,311	14.951.318	16,169,084	(13.6)	(20.1)
RT67	Piedmont	45,851	44,828	45,837	2.3	0.0	194 192 220	169 727 303	175 716 962	9.2	4.8
L	iotau	0,700,567	0,100,070	0,333,5/4	0.0	5.0	104,102,229	100,121,392	11 3,110,002	7.L	4.0
Othe	r Short Distance Trains										_
RT15A	Empire Service	1,088.052	1.093.965	1,112,262	(0.5)	(2.2)	42,366,520	42,986,927	43,781,245	(1.4)	(3.2)
RT22	Chicago-Detroit/Pntiac/Tol	406,499	366,291	370,045	11.0	9.9	11,751,120	10,123,627	10,262,596	16.1	14.5
RT54	Hoosier State	20,191	17.934	17,745	12.6	13.8	346,255	294,258	287,522	17.7	20.4
RT17/57	Pennsylvania/Three Rivers	213,413	324,325	219,992	(34.2)	(3.0)	8,737,087	15,015,145	8,494,909	(41.8)	2.9
1.1.1.1.1.1.1.1.1.1.1.1	Bus Services	0	0	0	0.0	0.0	4.088,575	4.102.915	6,453,019	(0.3)	(36.6)
RT99A	Special Trains	77,445	92,475	70,630	(16.3)	9.6	6,676,915	7,420,901	5,900,000	(10.0)	13.2
	Total	1,805,600	1,894,990	1,790,674	(4.7)	0.8	73,966,473	/9,943,774	/5,1/9,291	[7.5]	[1.6]
· ·	ong Distance Trains	l.									
RT16A	Silver Service	718.835	738.241	827,501	(2.6)	(13.1)	56,203,048	58,864,380	67,056,762	(4.5)	(16.2)
RT18	Cardinal	90.542	88.930	92,351	1.8	(2.0)	4,788,362	4,410,907	4,560,667	8.6	5.0
RT25	Empire Builder	476.531	437,191	444,263	9.0	7.3	42,131,741	39,130,724	39,902,433	7.7	5.6
RT26	Capitol Limited	195,051	180,810	246,200	7.9	(20.8)	13,093,077	11,854,928	14,172,985	10.4	(7.6)
RT27	California Zephyr	347,856	335,764	345,378	3.6	0.7	33,196,514	31,387,097	32,091,387	5.8	3.4
RT28	Southwest Chief	295,515	290,003	299,975	1.9	(1.5)	32,473,686	31,736,281	32,850,409	2.3	(1.1)
RT30	City of New Orleans	183,237	190,017	196,746	(3.6)	(6.9)	11,869,134	11,990,465	12,329,227	(1.0)	(3.7)
RT32	Texas Eagle	239.276	234.619	243,104	2.0	(1.6)	15,978,146	15,720,151	16,242,541	1.6	(1.6)
RT33	Sunset Limited	81,348	96,426	96.316	(15.6)	(15.5)	9,375,374	11,108,532	11,403,481	(15.6)	(17.8)
RT34	Coast Starlight	372,304	415.598	441,111	(10.4)	(15.6)	27.386,338	28,903,486	30,727,512	(5.2)	(10.9)
RT45	Lake Shore Limited	312.779	279,662	296,048	11.8	5.7	20,048,928	19,587,525	20,931,353	2.4	(4.2)
RT52	Crescent	263.080	256,577	265,214	2.5	(0.8)	22,355,583	22,255,825	23,082,817	0.4	(3.2)
RT63	Auto Train	204,698	197,483	212,935	3.7	(3.9)	47,045,471	46,836,556	50,219,096	0.4	(6.3)
	Total	3,781,052	3,741,321	4,007,142	1.1	(5.6)	335,945,403	333,786,857	355,570,669	0.6	[ [9.5]
Grand T	otal	25.374 998	25,053 564	25,732 437	13	(1.4)	\$1,248,751 435	\$1,256,424 267	\$1,314,825,909	(0.6)	(5.0)
Grand T	otai	23,314,396	23,033,304	LJ,1 JL,4J1	1.3	1 (1.4)		· .,200,424,20/	+ .,0 14,023,303	(0.0)	
		01-1-									

Reconciling items to Operating Income Statement:			
Food and Beverage Credit	(32,139,709)	(33,370,647)	(34,717,690)
Other Passenger Revenue	3,079,945	11,492,400	3,790,420
Guest Rewards	(7,967,108)	(5,172,187)	(7,013,781)
Private Car Movements	1,812,112	1,377,678	500,000
Net Ticket Revenue per Operating Statement	\$1,213,536,675	\$1,230,751,511	\$1,277,384,858

Note: FY05 indership and ticket revenues reflect deferred indership of 478,446 and deferred ticket revenues of \$24,569,122

## Amtrak

Financial Performance of Routes September 2005 YTD - Unaudited Results Route Performance Results Exclude Depreciation, Net Interest Expense and Discontinued Operations All numbers are in \$millions

Northeast	Corridor Trains		FRA			Total Non-Direct	Total Remaining	(Loss) (Exclude
Route	Train Name	Total	Defined	FRA Defined	Remaining	Costs (Exclude Dep,	Direct and Non-	Dep, Int & Discont
Number		Revenue	Costs	Contribution	Direct Costs	Int & Discont Ops)	Direct Costs	Ops)
RT01	Acela Express	\$206 8	\$63 1	\$143.7	\$535	\$39.3	\$92.8	\$51.0
RT02	Metroliner	\$74 3	\$24 4	\$50.0	\$210	\$14.6	\$35.6	\$14.4
RT05A	Regional/Federal	\$3715	\$162.6	\$208 9	\$1335	\$102 1	\$235.6	(\$26 7)
RT13	Clocker Service	\$15.5	\$6.8	\$8.7	\$77	\$5.6	\$13.5	(\$4.8)
	Total	\$668.1	\$256.9	\$411.3	\$2157	\$161.7	\$377.5	\$33.8

State Supp	orted Trains		FRA			Total Non-Direct	Total Remaining	Contribution / (Loss) (Exclude
Route Number	Train Name	Total Revenue	Defined Costs	FRA Defined Contribution	Remaining Direct Costs	Costs (Exclude Dep, Int & Discont Ops)	Direct and Non- Direct Costs	Dep, Int & Discont Ops)
RT03	Ethan Allen Express	\$5.3	\$4.6	\$0.7	\$2.5	\$1.3	\$3.8	(\$3.1)
RT04	Vermonter	\$17.1	\$9.5	\$7.6	\$5.3	\$4.4	\$9.7	(\$2.1)
RT09	The Downeaster	\$7.7	\$5.2	\$2.5	\$2.0	\$11	\$3.1	(\$0.6)
RT 14	Keystone Service	\$31.7	\$21.1	\$10.7	\$20.0	\$16.8	\$36.9	(\$26.2)
RT20	Chicago-St Louis	\$9.4	\$8.5	\$1.0	\$4.5	\$2.2	\$6.7	(357)
RT21	Hawathas	\$15.9	\$8.8	\$7.1	\$7.7	\$4.1	\$11.9	(\$4.8)
RT23	Illini	\$7.3	\$4.4	\$29	\$2.6	\$12	\$3.9	(\$1.0)
RT24	Illinois Zephyr	\$6.5	\$3.7	\$28	\$2.0	\$11	\$3.1	(\$0.2)
RT29	Heartland Flyer	\$4.8	\$35	\$1.3	\$0.9	\$0.7	\$1.6	(\$0.2)
RT35	Pacific Surfliner	\$62.0	\$47.5	\$14.5	\$21.8	\$12.3	\$34.1	(\$19.6)
RT36	Cascades	\$32.7	\$24.1	\$8 7	\$10.4	\$5.8	\$16.1	(\$7.4)
RT37	Capitols	\$35.9	\$27.8	\$8 1	\$11.4	\$6.0	\$17.4	(\$9.2)
RT39	San Joaquins	\$50.0	\$42.1	\$7.9	\$9.0	\$7.5	\$16.5	(\$8.6)
RT40	Adirondack	\$10.2	\$8.3	\$1.9	\$3.2	\$1.9	\$5.1	(\$3.2)
RT41	Blue Water	\$6.7	\$4.7	\$2.0	\$2.2	\$1.9	\$4.1	(\$2.1)
RT56	Kansas City-St Louis	\$9.5	\$7.4	\$2.1	\$2.3	\$15	\$3.9	(\$1.7)
RT65	Pere Marquette	\$5.9	\$3.0	\$3.0	\$1.4	\$0.8	\$2.2	507
RT66	Carolinian	\$15.6	\$11.9	\$3.7	\$7.4	\$4.2	\$11.6	(\$7.9)
RT67	Piedmont	\$2.2	\$1.1	\$1.1	\$11	\$0.3	\$1.5	(\$0.4)
	Total	\$336.7	\$7473	\$89.5	\$117.6	\$75.1	\$192.7	(\$103.2)

Other Shor	t Distance Trains		FRA			Total Non-Direct	Total Remaining	Contribution / (Loss) (Exclude
Route	Train Name	Total Revenue	Defined Costs	FRA Defined Contribution	Remaining Direct Costs	Costs (Exclude Dep. Int & Discont Ops)	Direct and Non- Direct Costs	Dep, Int & Discont Ops)
RT15A	Empire/Maple Leaf	\$44.1	\$37.2	\$6.9	\$24.8	\$12.4	\$37.2	(\$30.3)
RT22	Wolverines	\$12.9	\$15.0	(\$2.1)	\$7.7	\$6.0	\$13.7	(\$15.8)
RT54	Hoosier State	\$0.3	\$1.5	(\$1.1)	\$0.8	\$0.3	\$1.1	(\$2.2)
RT57A	Pennsylvanian/Three Rivers	\$9.6	\$10.6	(\$1.0)	\$7.2	\$5.1	\$12.3	(\$13.3)
RT91A	Other - Crew Labor	(\$0.0)	\$1.2	(\$1.2)	(\$0.0)	\$0.0	(\$0.0)	(\$1.2)
RT99A	Special Trains	\$6.8	\$3.5	\$3.3	\$0.6	\$0.2	\$0.7	\$25
	Tatel	\$72 E	\$60.0	\$4.6	\$41.0	\$24.0	\$64.9	(\$60.3)

Long Dista	ince Trains		FRA			Total Non-Direct	Total Remaining	Contribution / (Loss) (Exclude
Route Number	Train Name	Total Revenue	Defined Costs	FRA Defined Contribution	Remaining Direct Costs	Costs (Exclude Dep. Int & Discont Ops)	Direct and Non- Direct Costs	Dep, Int & Discont Ops)
RT16A	Silver Service	\$60.9	\$97.5	(\$36.5)	\$42.2	\$26.6	\$68.8	(\$105.3)
RT 18	Cardinal	\$5.3	\$11.9	(\$6.5)	\$4.4	\$2.8	\$7.2	(\$13.8)
RT25	Empire Builder	\$46.4	\$62.0	(\$15.6)	\$16.8	\$12.6	\$29.4	(\$45.0)
RT26	Capitol Limited	\$14.3	\$22.6	(\$8.3)	\$115	\$5.3	\$16.8	(\$25.1)
RT27	California Zephyr	\$36 7	\$63.0	(\$26.3)	\$15.9	\$12.4	\$28.3	(\$54.6)
RT 28	Southwest Chief	\$35.6	\$62.7	(\$27.1)	\$18.0	\$13.7	\$31.7	(\$58.8)
RT30	City of New Orleans	\$12.8	\$22.7	(\$9.9)	\$7.1	\$5.0	\$12.1	(\$22.1)
RT32	Texas Eagle	\$17.6	\$33.6	(\$15.9)	\$8.5	\$6.5	\$15.0	(\$30.9)
RT33	Sunset Limited	\$10.8	\$30.9	(\$20.1)	\$9.0	\$6.0	\$15.1	(\$35.2)
RT34	Coast Starlight	\$32.1	\$49 5	(\$17.3)	\$14.8	\$9.8	\$24.6	(\$42.0)
RT45	Lake Shore Limited	\$21.6	\$32 1	(\$10.4)	\$19.0	\$9.0	\$28.0	(\$38.4)
RT52	Crescent	\$24.0	\$37.6	(\$13.6)	\$16.4	\$10.7	\$27.1	(\$40.8)
RT63	Auto Train	\$47.5	\$43.5	\$4.0	\$12.6	\$8.5	\$21.0	(\$17.1)
	Total	\$365.8	\$569.6	(\$203.8)	\$196.2	\$129.0	\$325.2	(\$529.0)
	Total All Trains		61 142 7	\$201.6	\$570.5	£ 1980 S	\$ 0302	(\$658.7)

Reconciling Items between RPS and Consolidated Statement of Operations

	Revenue	Expense	Net
Total All Trains	\$1,444.3	\$2,103.0	(\$658.7)
Depreciation, Net	\$0.0	\$560 2	(\$560.2)
Impairment Adjustments Impacting Prior Year	\$0.0	\$0.0	(\$0.1)
Federal and State Capital Payments	\$28.7	\$0.0	\$28.7
Non-Core Amtrak Businesses	\$263.6	\$177.8	\$85.8
Total Adjustments & Non-Core Businesses	\$439.4	\$859.0	(\$419.6)
Operating Results	\$1,883.7	\$2,962.0	(\$1,078.3)
Interest, Net Net (Income) Loss from Discont Ops	\$0.0 \$0.0	\$125.0 \$3.1	(\$125.0) (\$3.1)
EIS Net Results	\$18837	\$3.090.0	(\$1,206.4)

Notes' - Pennsylvanian truncated in Pittsburgh with changed schedule - Prorywar data may not match previously published reports at the individual route level. This report reflects the FVO 5 assignment of tran segments to routes. - FRA Defined Tran Contribution / (Cost) represents train revenues less FRA allowable expenses. FRA allowable expenses include tran costs; primarily trans rows, food and bevrage, fuel, raincad cost and commissions and certain shared costs, primarily enupment maintenance and roserves: - Route-level data from Amtrak's Financial Information System (RPS) Remaining data is from Amtrak's Financial Information System (RPS)

C - 1

#### Amtrak

Financial Performance of Routes

September 2004 YTD Route Performance Results Exclude Depreciation, Net Interest Expense and Discontinued Operations All numbers are in \$ millions

Northeast Corridor Trains			FRA			Total Non-Direct	Total Remaining	Contribution / (Loss) (Exclude
Route Number	Train Name	Total Revenue	Defined Costs	FRA Defined Contribution	Remaining Direct Costs	Costs (Exclude Dep, Int & Discont Ops)	Direct and Non- Direct Costs	Dep, Int & Discont Ops)
RT01	Acela Express	\$287.3	\$76.9	\$210.5	\$85.1	\$64.3	\$149.4	\$61.1
RT02	Metroliner	\$47.4	\$14.5	\$33.0	\$13.6	\$12.0	\$25.6	\$7.4
RT05A	Regional/Federal	\$338.2	\$147.2	\$191.0	\$131.5	\$116.4	\$247.9	(\$56.9)
RT13	Clocker Service	\$17.9	\$6.9	\$11.0	\$8.5	\$7.4	\$16.0	(\$5.0)
	Total	\$690.9	\$245.4	\$445.5	\$238.7	\$200.1	\$438.8	\$6.6

State Supp	orted Trains		FRA			Total Non-Direct	Total Remaining	Contribution / (Loss) (Exclude
Route Number	Train Name	Total Revenue	Defined Costs	FRA Defined Contribution	Remaining Direct Costs	Costs (Exclude Dep, Int & Discont Ops)	Direct and Non- Direct Costs	Dep, Int & Discont Ops)
RT03	Ethan Allen Express	\$5.0	\$4.3	\$0.8	\$2.5	\$1.3	\$3.8	(\$3.1)
RT04	Vermonter	\$15.6	\$8.3	\$7.4	\$5.8	\$4.8	\$10.5	(\$3.2)
RT09	The Downeaster	\$6.1	\$4.3	\$1.8	\$2.5	\$1.2	\$3.7	(\$1.9)
RT14	Keystone Service	\$26.2	\$15.9	\$10.3	\$15.8	\$13.3	\$29.1	(\$18.8)
RT20	Chicago-St Louis	\$9.0	\$7.8	\$1.2	\$4.8	\$2.4	\$7.2	(\$6.0)
RT21	Hiawathas	\$14.5	\$9.2	\$5.3	\$8.5	\$5.5	\$140	(\$87)
RT23	Illini	\$6.2	\$3.9	\$2.3	\$2.8	\$1.3	\$4.1	(\$1.8)
RT24	tilinois Zephyr	\$5.9	\$3.5	\$2.4	\$2.2	\$1.1	\$3.3	(\$0.9)
RT29	Heartland Fiver	\$4.5	\$3.3	\$1.2	\$1.0	\$0.6	\$1.6	(\$0.3)
RT35	Pacific Surfliner	159.2	\$43.4	\$15.8	\$22.8	\$10.8	\$33.6	(\$17.3)
RT36	Cascades	\$31.8	\$24.1	\$7.7	\$10.0	\$5.3	\$15.3	(\$7.6)
RT37	Capitols	\$34.0	\$25.2	\$8.8	\$10.8	\$5.7	\$16.5	(\$7.7)
RT39	San Joaquins	\$49.4	\$39.2	\$10.2	\$97	\$6.8	\$16.5	(\$6.3)
RT40	Adirondack	\$10.7	\$8.0	\$2.7	\$3.5	\$1.7	\$5.2	(\$2.5)
RT41	Blue Water	\$6.2	\$4.2	\$2.0	\$23	\$1.7	\$4.0	(\$2.0)
RT56	Kansas City-St Louis	\$9.4	\$6.6	\$2.8	\$2.6	\$1.3	\$3.9	(\$1.1)
RT65	Pere Marquette	\$5.7	\$2.4	\$3.3	\$17	\$0.9	\$2.6	\$0.7
RT66	Carolinian	\$18.0	\$11.1	\$6.9	\$8.4	\$5.6	\$14.0	(\$7.1
RT67	Piedmont	\$2.4	\$1.0	\$1.4	\$1.1	\$0.3	\$1.4	(\$0.0)
	Tetal	0.010	2,3000	204.9	\$110 E	\$710	£100.4	1206 1

Other Shor	t Distance Trains		FRA			Total Non-Direct	Total Remaining	Contribution / (Loss) (Exclude
Route Number	Train Name	Total Revenue	Defined Costs	FRA Defined Contribution	Remaining Direct Costs	Costs (Exclude Dep, Int & Discont Ops)	Direct and Non- Direct Costs	Dep, Int & Discont Ops)
RT15A	Empire/Maple Leaf	\$45.1	\$36.3	\$8.8	\$27.1	\$12.1	\$39.2	(\$30.4)
RT22	Wolverines	\$11.0	\$12.5	(\$1.5)	\$8.6	\$6.1	\$14.7	(\$16.2)
RT54	Hoosier State	\$0.3	\$1.2	(\$0.9)	\$0.8	\$0.3	\$1.1	(\$2.0)
RT57A	Pennsylvanian/Three Rivers	\$27.6	\$28.4	(\$0.8)	\$23.7	\$18.4	\$42.1	(\$42.9)
RT91A	Other - Crew Labor	(\$0.0)	\$3.6	(\$3.6)	\$0.0	\$0.0	\$0.0	(\$3.6)
RT99A	Special Trains	\$7.6	\$3.5	\$4.1	\$1.2	\$0.6	\$1.8	\$2.3
	Total	\$91.6	\$25.4	\$6.2	\$61.4	\$37.5	P 802	(\$92.7)

Long Dista	ince Trains		FRA			Total Non-Direct	Total Remaining	Contribution / (Loss) (Exclude
Route Number	Train Name	Total Revenue	Defined Costs	FRA Defined Contribution	Remaining Direct Costs	Costs (Exclude Dep, Int & Discont Ops)	Direct and Non- Direct Costs	Dep, Int & Discont Ops)
RT16A	Silver Service	\$73.5	\$87.6	(\$14.1)	\$43.8	\$30.0	\$73.8	(\$87.9)
RT18	Cardinal	\$4.9	\$10.6	(\$5.7)	\$4.0	\$2.6	\$6.6	(\$12.3)
RT25	Empire Builder	\$46.9	\$59.3	(\$12.4)	\$19.6	\$13.1	\$327	(\$45.1)
RT26	Capitol Limited	\$16.7	\$216	(\$5.0)	\$11.6	\$6 7	\$18.3	(\$23.3)
RT27	California Zephyr	\$40.5	\$577	(\$17.1)	\$19.3	\$137	\$33.0	(\$50.1)
RT28	Southwest Chief	\$51.4	\$64.1	(\$12.7)	\$28.8	\$22.2	\$50.9	(\$63.6)
RT30	City of New Orleans	\$13.2	\$20.9	(\$7.7)	\$7.8	\$4.7	\$12.4	(\$20.1)
RT32	Texas Eagle	\$18.0	\$30.9	(\$12.9)	\$8.6	\$6.4	\$15.0	(\$27.9)
RT33	Sunset Limited	\$12.6	\$27.4	(\$14.8)	\$9.3	\$5.2	\$14.6	(\$29.3)
RT34	Coast Starlight	\$32.5	\$46.8	(\$14.2)	\$16.1	\$8.6	\$24 7	(\$39.0)
RT45	Lake Shore Limited	\$24.2	\$29.2	(\$5.0)	\$19.6	\$10.7	\$30.2	(\$35.2)
RT52	Crescent	\$26.1	\$34.3	(\$8.2)	\$16.1	\$11.3	\$273	(\$35.6)
RT63	Auto Train	\$47.3	\$39 5	\$7.8	\$13.8	\$7.5	\$21.3	(\$13.5)
	Total	\$407.8	\$5297	(\$122.0)	\$218.3	\$142.7	\$361.0	(\$483.0)
	Total All Trains	\$1,510.1	\$1,086.2	\$424.0	\$636.9	\$452.2	\$1,089.1	(\$665.1)

Reconciling Items between RPS and Consolidated Statement of Operations

	Revenue	Expense	Net
Total All Trains	\$1,510.1	\$2,175,3	(\$665.1)
Depreciation, Net	\$0.0	\$551.4	(\$551.4)
Impairment	\$0.0	\$0.0	\$0.0
Adjustments Impacting Prior Year	\$0.0	(\$26.0)	\$26.0
Federal and State Capital Payments	\$21.8	\$0.0	\$21.8
Non-Transportation and Other	\$67.9	\$68.8	(\$0.9)
Non-Core Amtrak Businesses	\$265.5	\$180 5	\$85.0
Total Adjustments & Non-Core Businesses	\$355.3	\$774.7	(\$419.4)
Operating Results	\$1,865.4	\$2,950.0	(\$1,084.6)
Interest, Net	\$0.0	\$129.6	(\$129.6)
Net (Income) Loss from Discont Ops	\$0.0	\$94.7	(\$947)
FIS Net Results	\$1,865.4	\$3,1743	(\$1,308.9)

Notes - Pennsylvanian truncated in Pittsburgh with changed schedule - Prioryvar data may not match previously published reports at the individual route level. This report reflects the PYOS essignment of train segments to routes. - FRA Defined Train Contribution / (Cost) represents train revenues lass FRA allowable expenses. FRA allowable expenses include train costs, primarily train reves, food and beverage, (Leu, rainola costs and commissions and cetter shared costs, primarily equipment maintenonce and reserves. - Route level data from Antrak's Route Profitability System (RPS) Remaining data is from Antrak's Financial information System (FPS)

#### National Railroad Passenger Corporation September YTD FY04 Revenue and Ridership Data

.

		1	Rid	ership			Ticket Revenue					
Route	Train Name		% change vs.									
No	rtheast Corridor Trains	FY04	FY03	Budget '	FY03	Budgel	FY04	FY03	Budgel 1	FY03	Budge	
RT01	Acela Express	2.568.935	2.363,454	2,477,835	8.7	3.7	\$294.654.392	\$272.647.303	\$284,461,875	8.1	3.6	
RT02	Metroliner	397.608	573,431	604.704	(30.7)	(34.2)	41.123.945	59.840.505	64.481.463	(31.3)	136.2	
RT05A	Regional/Federal	6,405.087	5.850.975	6.262.612	9.5	2.3	320.244.267	299.148,786	320.011.878	7.1	0.1	
<b>RT13</b>	Clocker Service	1,945,553	1,957,903	1,988,681	(0.6)	(2.2)	17.943.641	18.817.113	19.204.080	(4.6)	(6.6)	
	Total	11,317,183	10,745,763	11,333,832	5.3	(0.1)	673,966,245	650,453,707	688,159,296	3.6	(2.1)	
SI	tate Supported Trains	1										
8T03	Ethan Allen Express	108 192	109.584	117.231	(1.3)	(7.7)	4,355,061	4,291,998	4,636,639	1.5	(6.1)	
RT04	Vermonter	252 238	260 102	274 169	(3.0)	(8.0)	13 538 514	13 335 582	14 04 1 752	1.5	(3.6)	
RT09	The Downeaster	250.028	254 030	266 769	(1.6)	(6.3)	3 4 5 8 0 8 0	3 745 786	3 910 562	(7.7)	(11.6	
RT14	Keystone Service	901 170	886.003	899.216	17	0.2	19 861 096	20 678 274	21 017 884	(4 0)	(5.5)	
PT20	Chicago St Louis	212 999	195 599	206 292	8.9	3.3	4 399 823	3 867 131	4 034 634	13.8	91	
DT21	Liouathan	460,420	417 366	422.202	10.3	6.3	7 66 7 3 33	6 906 019	7 045 427	11.2	7.4	
DTO	Pilawatrias	460,430	417.500	400.020	10.3	4.0	2.007.025	2569.017	9 54 9 997	16.2	110	
RT23	mini	113.201	102,664	100.110	10.3	4.0	2,363,655	2.009.917	2.040.007	14.0	10.0	
R124	himois Zepnyr	108.856	103.924	108,843	4./	0.0	2.405.535	2.109.391	2,166,971	10.1	10.0	
R129	Heanland Fiyer	54,403	46.092	48,153	16.8	13.0	900.980	156.212	792.379	7.4	15.7	
R135	Pacific Suffliner	2,344,665	2,1/9,427	2,293,728	1.6	2.2	34,597,851	32,300,086	34,101,994	11	1.5	
RT36	Cascades	597,161	589,947	616.827	1.2	(3.2)	13,931.592	13.028.721	13,725,082	6.9	1.5	
RT37	Capitols	1,165,334	1,139,136	1,176,768	2.3	(1.0)	12,039,092	11,548,364	12,196,961	4.2	(1.3)	
RT39	San Joaquins	738,540	782,778	806,086	(5.7)	(8.4)	20,207,164	18,965,042	19,866,544	6.5	1.7	
RT40	Adirondack	132,700	131.366	141,225	1.0	(6.0)	5,800.720	5.514.485	5,922,261	5.2	(2.1)	
RT41	Blue Water	94.378	80,890	85.517	16.7	10.4	2.278.929	2.068.453	2.143.984	10.2	6.3	
RT56	Kansas City-St.Louis	128,084	139,823	145,408	(8.4)	(11.9)	2.952.478	2.826,603	2.889,721	4.5	2.2	
RT65	Pere Marquette	87.767	73.392	77.089	19.6	13.9	1.935.617	1.677.636	1,767,580	15.4	9.5	
RT66	Carolinian	305.016	321.581	333,996	(5.2)	(8.7)	14.951.318	16.361,973	17.239.636	(8.6)	(13.3)	
RT67	Piedmont	44.828	39,159	40.730	14.5	10.1	582.364	500.688	526.376	16.3	10.6	
	Total	8,100,070	7,853,383	8,179,480	3.1	(1.0)	168,727,392	162,952,419	170,695,274	3.5	(1.2)	
Othe	er Short Distance Trains	1					5					
RT15A	Empire Service	1.093.965	1,081,997	1,153.651	1.1	(5.2)	42.986.927	42.123.847	44.897.857	2.0	(4.3)	
RT22	Chicago-Detroit/Pntiac/Tol	366.291	326,367	375,170	12.2	(2.4)	10.123.627	9.121.421	10,270,021	11.0	(1.4)	
RT54	Hoosier State	17,934	19.179	14,545	(6.5)	23.3	294,258	364,505	173,809	(19.3)	69.3	
RT57	Pennsylvanian	171.483	124.372	146,199	37.9	17.3	5,903,816	4.374.263	5.070.659	35.0	16.4	
	Bus Services	0	0	0	0.0	0.0	4.102.915	2.297.153	1.922.228	78.6	113.4	
R T99A	Special Trains	92,475	108.118	80,650	(14.5)	14.7	7,420,901	7.032.625	7.220.556	5.5	2.8	
	Total	1,742,148	1,660,033	1,770,215	4.9	(1.6)	70,832,445	65,313,815	69,555,130	8.4	1.8	
	ana Distance Trains	1										
DTICA	ong Distance Trains	720 014	705 450	700.242	4.0		50.004.300	C4 000 477	CE 077 0CC	(4.0)	(10.6)	
RIIGA	Silver Service	738.241	/26.460	129,313	1.5	1.2	58.864,380	61.690,477	0.071,966	(4.9)	(10.6)	
RT17	Three Rivers	152.842	137,234	136.724	11.4	11.8	9,111,329	8.969.507	9,251,695	1.6	05.4	
RT18	Cardinal	88.930	72.230	/4,641	23.1	19.1	4,410,907	3.269,666	3.516.340	34.9	25.4	
R125	Empire Builder	437,191	415.722	436.138	5.2	0.2	39,130,724	36,125,335	37.768.449	8.5	3.0	
RT26	Capitol Limited	180,810	153,969	163,241	17.4	10.8	11,854,928	11.010.362	11,722,984	1.1	1.1	
RT27	California Zephyr	335,764	323,389	335,415	3.8	0.1	31,387,097	31,808,774	31.601,605	(1.3)	(0.7)	
RT28	Southwest Chief	290,003	273,271	283,384	6.1	2.3	31,736,281	31,369,915	33,062,296	1.2	(4.0)	
RT30	City of New Orleans	190.017	181.802	176.923	4.5	7.4	11.990.465	10.883.980	11,713,574	10.2	2.4	
RT32	Texas Eagle	234.619	214.350	223.060	9.5	5.2	15.720.151	14.922.402	15,799,402	5.3	(0.5)	
RT33	Sunset Limited	96.426	105.033	108.794	(8.2)	(11.4)	11.108.532	11,932,883	12,916.794	(6.9)	(14.0)	
RT34	Coast Starlight	415.598	444.430	464.522	(6.5)	(10.5)	28.903.486	28,749,287	30.342.103	0.5	(4.7)	
RT45	Lake Shore Limited	279.662	265.715	280.780	5.2	(0.4)	19.587.525	19,296,335	21.090.524	1.5	(7.1)	
RT52	Crescent	256.577	255.531	253,652	0.4	1.2	22.255.825	21.916,204	23.558,727	15	(5.5)	
RT63	Auto Train	197,483	199.804	210,127	(1.2)	(6.0)	46.836.556	45.395.171	48.077.011	3.2	(2.6)	
	Total	3,894,163	3,768,940	3,876,714	3.3	0.5	342,898,186	337,540,317	356,319,470	1.6	(3.8)	
Frand T	atal	25 053 564	24 028 110	25 160 241	43	(0.4)	\$1 256 424 267	\$1 216 260 257	\$1 284 729 170	33	12 21	
		1 201000,004	24,020,119	20,100,241	4.0	1 (0.4)	3 11200,424,201	51,210,200,201			1. 12.27	
Reconcili	ng items to Operating Income	Statement:						-02 720 010	(22.000.000)			
	Food and Beverage Credit						(33.370.647)	(33.738,246)	(33,899,206)			
	Other Passenger Revenue						3.892.400	1.792.163	2,259,212			
	Guest Rewards						(5,172,187)	0	0			
	Private Car Movements						1.377,678	1.218,621	<u>0</u>			
Vet Ticke	Revenue per Operating State	ement					\$1,223,151,511	\$1,185,532,795	\$1.253.089.176			

Net Tickel Revenue per Operating Statement

Notes

FY04 ndership and ticket revenues reflect deterred indership of 357,426 and deterred ticket revenues of \$18,766,729
 The data reflects new route definitions for FY04
 The data reflects new route definitions for FY04
 the Advandack, Ethan Allen, Vermonter, Carolinian, & Texas Eagle include trips on the entire train, with subsequent adjustments to Empire. Regional and Chinago-S4 Louis
 the Reflect & Maple Leat are included in Regional & Empire respectively.

\* Reflects revised August/September FY04 indexship and boket revenue Budget at the route level. No Budget change was made at the overall Amtrok level

139

Corridor Tra	Constraints of the second s	FY03 YTD September 2003			FY02 YTD :	September	2002	Variance Year over Year			
Corridor Tra				Profit /			Profit /			Profit /	
Corridor Tra	Description	Revenue	Cost	(Loss)	Revenue	Cost	(Loss)	Revenue	Cost	(Loss)	
	ins										
Route 01 A	celá Expréas	\$276.8	\$218.9	\$57.9	\$300.4	\$235.3	\$65.1	(\$23.7)	\$16.4	(\$7.2)	
Route 02 N	fetroliner	\$61.1	\$53.0	\$8.1	\$69.7	\$54.9	\$14.8	(\$8.6)	\$1.8	(\$6.7)	
Route 03 E	than Allen Express	\$5.7	\$9.0	(\$3.3)	\$5.0	\$10.2	(\$5.1)	\$0.6	\$1.1	\$1.8	
Route 04 V	fermonter	\$15.0	\$20.4	(\$4.4)	\$15.7	\$23.2	(\$7.5)	\$0.3	\$2.8	\$3.1	
Route 05 R	Regional	\$298.3	\$351.3	(\$62.9)	\$296.6	\$362.9	(\$88.4)	\$1.8	\$1.7	\$3.4	
Route 06 F	ederal	\$11.4	\$25.6	(\$14.2)	\$14.6	\$29.7	(\$15.0)	(\$3.2)	\$4.1	\$0.8	
Route 07 N	Aaple Leaf	\$9.2	\$14.3	(\$5.1)	\$10.1	\$14.7	(\$4.6)	(\$0.9)	\$0.3	(\$0.5)	
Route 09 T	he Downeaster	\$6.2	\$8.3	(\$2.1)	\$4.7	\$10.7	(\$6.0)	\$1.4	\$2.4	\$3,9	
Route 13 C	Clocker Service	\$18.9	\$28.8	(\$9.9)	\$18.9	\$25.7	(\$6.8)	(\$0.0)	(\$3.1)	(\$3.1)	
Route 14 K	leystone Service	\$27.3	\$44.2	(\$18.9)	\$26.5	\$44.8	(\$18.1)	\$0.8	\$0.4	\$1.2	
Route 15 E	Empire Service	\$34.9	\$64.4	(\$29.5)	\$35.9	\$86.2	(\$30.3)	(\$1.0)	\$1.8	\$0.8	
Route 20 S	State House	\$8.4	\$14.6	(\$6.2)	\$8.8	\$18.1	(\$7.3)	(\$0.4)	\$1.5	\$1.1	
Route 21 H	liawathas	\$12.6	\$23.5	(\$10.9)	\$12.1	\$22.5	(\$10.5)	\$0.5	(\$1.0)	(\$0.5)	
Route 22 V	Volverine	\$8.8	\$26.1	(\$16.2)	\$10.5	\$27.5	(\$17.0)	(\$0.6)	\$1.4	\$0.8	
Route 23 II	llini	\$5.5	\$7.2	(\$1.7)	\$5,7	\$7.3	(\$1.6)	(\$0.2)	\$D.1	(\$0,1)	
Route 24 II	llinois Zephyr	\$5.2	\$7.1	(\$1.9)	\$5.3	\$7.5	(\$2.3)	(\$0.1)	\$0.5	\$0.4	
Route 29 H	leartiand Flyer	\$5.5	\$4.5	\$1.0	\$5.9	\$4.7	\$1.3	(\$0.4)	\$0.1	(\$0.3)	
Route 35 P	Pacific Surfliner	\$56.0	\$70.4	(\$14.4)	\$55.4	\$75.1	(\$19.7)	\$0,6	\$4.7	\$5.3	
Route 36 C	Cascades	\$30.8	\$38.2	(\$7.4)	\$24.7	\$32.9	(\$8.1)	\$6.1	(\$5.3)	\$0.8	
Route 37 C	Capitols	\$33.6	\$40.2	(\$6.6)	\$36.1	\$43.0	(\$6.9)	(\$2.5)	\$2.7	\$0.3	
Route 39 5	San Joaquins	\$46.8	\$52.6	(\$5.7)	\$48.7	\$58.1	(\$11.4)	\$0.1	\$5.5	\$5.6	
Route 40 A	Adirondack	\$9.3	\$13.0	(\$3.8)	\$7.1	\$13.5	(\$6.4)	\$2.2	\$0.4	\$2.6	
Route 41 In	nternational	\$6.1	\$7.5	(\$1.4)	\$6.8	\$8.7	(\$1.9)	(\$0.7)	\$1.2	\$0.4	
Route 54 H	toosier State	\$0.4	\$4.8	(\$4.4)	\$1.3	\$8.1	(\$6.8)	(\$0.9)	\$3.4	\$2.5	
Route 56 M	Aules	\$9.3	\$10.1	(\$0.8)	\$9.6	\$10.8	(\$1.1)	(\$0.3)	\$0.6	\$0.3	
Route 65 P	Pere Marquette	\$4.0	\$5.2	(\$1.2)	\$4.0	\$5.3	(\$1.3)	(\$0.0)	\$0.1	\$0.1	
Route 66 C	Carolinian	\$21.2	\$27.6	(\$8.3)	\$21.3	\$27.5	(\$6.3)	(\$0.0)	(\$0.0)	(\$0.1)	
Route 87 P	Pledmont	\$2.5	\$2.5	(\$0.1)	\$3.2	\$3.6	(\$0.4)	(\$0.7)	\$1.1	\$0.4	
Route T	Total Special Trains	\$7.1	\$5.5	\$1.6	\$8.1	\$4.7	\$1.4	\$7.1	(\$5.5)	\$1.6	
Total Corrid	for Trains	\$1,040.0	\$1,208.8	(\$168.9)	\$1,068.8	\$1,254.9	(\$186.2)	(\$22.7)	\$41.4	\$18.7	
					1						
Long Distan	nce Trains				· · · ·						
Route 16 S	Silver Star	\$25.7	\$59.5	(\$32.8)	\$31.8	\$58.7	(\$27.0)	(\$5.0)	(\$0.8)	(\$5.8)	
Route 17 T	Three Rivers	\$20.5	\$54.7	(\$34.2)	\$24.6	\$54.1	(\$29.5)	(\$4.1)	(\$0.6)	(\$4.7)	
Route 18	Cardinal	\$3.7	\$15.1	(\$11.4)	\$4.4	\$16.6	(\$12.2)	(\$0.7)	\$1.5	\$0.9	
Route 19 S	Silver Meteor	\$29.1	\$52.9	(\$23.8)	\$32.4	\$51.5	(\$19.1)	(\$3.3)	(\$1.4)	(\$4.7)	
Route 25 E	Empire Builder	\$45.2	\$89.4	(\$44.2)	\$51.9	\$94.9	(\$43.0)	(\$6.7)	\$5.5	(\$1.2)	
Route 26	Capitol Limited	\$17.1	\$38.2	(\$21.1)	\$21.6	\$42.1	(\$20.6)	(\$4.5)	\$4.0	(\$0.5)	
Route 27 C	California Zephyr	\$42.1	\$91.8	(\$49.4)	\$50.0	\$97.2	(\$47.2)	(\$7.9)	\$5.6	(\$2.2)	
Route 28 S	Southwest Chief	\$53.3	\$122.7	(\$69.4)	\$69.8	\$126.9	(\$57.1)	(\$16.5)	\$4.3	(\$12.2)	
Route 30 C	City of New Orleans	512.3	\$31.3	(\$19.0)	\$13.6	\$30.8	(\$17.1)	(\$1.3)	(\$0.5)	(\$1.8)	
Route 32 T	Texas Eagle	\$18.1	\$46.7	(\$28.6)	\$22.1	\$55.3	(\$33.3)	(\$4.0)	\$8.7	\$4.7	
Route 33 S	Sunset Limited	\$14.2	\$44.0	(\$29.8	\$18.9	\$51.3	(\$32.4)	(\$4.7)	\$7.3	\$2.6	
Route 34 C	Coast Starlight	\$32.5	\$58.6	(\$30.1)	\$37.6	\$73.2	(\$35.6)	(\$5.1)	\$4.6	(\$0.5)	
Route 45 L	ake Shore Limited	\$24.8	\$81.8	(\$36.8	\$31,2	\$89.8	(\$38.4)	(\$6.4)	\$8.0	\$1.6	
Route 48 F	Palmetto	\$21.8	\$43.0	(\$21.2	\$27.3	\$52.3	(\$25.1)	(\$5.5)	\$9.4	\$3.9	
Route 52	Crescent	\$25.4	\$83.0	(\$37.6	\$30.8	\$80.8	(\$30.0)	(\$5.4)	(\$2.2)	(\$7.6)	
Route 57 F	Pennsylvanian	\$7.0	\$17.0	(\$10.0	\$11.5	\$32.8	(\$21.4)	(\$4.4)	\$15.8	\$11.4	
Route 63 A	Auto Train	\$45.9	\$57.8	(\$11.9	\$51.1	\$61.5	(\$10.4)	(\$5.3)	\$3.7	(\$1.8)	
Total Long	Distance Trains	\$439.8	\$957.0	(\$517.2)	\$530.5	\$1,029.8	(\$499.3)	(\$90.7)	\$72.8	(\$17.9)	
All Amtrak I	Route Operations	\$1,479.8	\$2,185.9	(\$685.1	\$1,599.3	\$2,284.8	(\$685.4)	(\$113.4)	\$114.2	\$0.8	
	Items between RPS and Con	solidated St	atement of	Operations	*						
Reconciling	the second s	50.0	\$606,1	(\$605.1	50.0	\$44.3	(\$44.3)				
Reconciling	n, Net										
Reconciling Depreciation Adjustments	n, Net Impacting Prior Year	\$0.0	(\$3.1)	\$3.1	30.0	(\$19.9)	\$19.9				
Reconciling Depreciation Adjustments Federal and	n, Net Impacting Prior Year State Capital Payments	\$0.0 \$18.6	(\$3.1) \$0.0	\$3.1	30.0 \$18.4	(\$19.9) \$0.0	\$19.9				
Reconciling Depreciation Adjustments Federal and Non-Transpo	n, Net Impecting Prior Year State Capital Payments ortation and Other	\$0.0 \$18.6 \$129.8	(\$3.1) \$0.0 \$119.7	\$3.1 \$15.6 \$10.0	\$0.0 \$18.4 \$132.7	(\$19.9) \$0.0 \$556.2	\$19.9 \$16.4 (\$423.5)				
Reconciling Depreciation Adjustments Federal and Non-Transpo Non-Core Ar	n, Net Impacting Prior Year State Capital Payments ortation and Other mtrak Businesses	\$0.0 \$18.6 \$129.8 \$448.4	(\$3.1) \$0.0 \$119.7 \$317.7	\$3.1 \$15.6 \$10.0 \$130.7	30.0 \$18.4 \$132.7 \$479.8	(\$19.9) \$0.0 \$556.2 \$358.3	\$19.5 \$16.4 (\$423.5) \$121.5				

#### Financial Performance of Scheduled Amtrak Routes Route Performance Results Exclude Depreciation and Net Interest Expense (\$millions)

\*Route-level data from Artitrac's Route Profitability System (RPS). Remaining data is from Amtracks Financial Information System (FIS). Note: Prior year data might not match previously published reports at the individual route level. This report reflects the FYD4 assignment of train segments to routes

\$2,076.6 \$3,206.3 (\$1,126.7) \$0.0 \$144.6 (\$144.6) \$0.0 \$136.5 (\$136.5) \$2,276.6 \$3,350.9 (\$1,274.3) \$2,278.2 \$3,360.1 (\$1,131.9)

Operating Results Interest Expense, Net FIS Net Results

1-15

				Octo	ber-Se	ptember F	Y03					
	· .		R	Idership			Tickat Revenue					
			T	L	% cha	nge vs.				% cha	nge vs	
Eastern I	Region	FY03	FY02	Budget	FY02	Budget	FY03	FY02	Budget	FY02	Budget	
short	1 - Acela/Metroliner	2,936,885	3,213,981	3,350,147	-8.6	-12.3	\$332,487,808	\$364,149,582	\$398,724,719	-8.7	-16.6	
Distance	3 - Ethan Allen	35,585	38,522	38,892	-7.6	-8.5	\$1,587,412	\$1,726,465	\$1,770,338	-8.1	-10.3	
	4 - Vermonter	60,891	66,843	69,863	-8.9	-12.8	\$3,477,545	\$3,758,517	\$3,908,100	-7.5	-11.0	
	5 - Regional	5,974,806	5,760,499	5.629,755	+3.7	+6.1	\$303,168,232	\$298,787,635	\$304,201,320	+1.5	-0.3	
	6 - Federal	179,154	215,141	217,292	-16.7	-17.6	\$10,264,168	\$13,290,678	\$13,999,425	-22.8	-26.7	
	7/15 - Maple Leaf/Empire	1,201,242	1,240,857	1,224,613	-3.2	-1.9	\$46,520,943	\$47,853,238	\$49,533,719	-2.6	-6.1	
	9 - Downeaster	254,030	245,135	296,388	+3.6	-14.3	\$3,745,700	\$3,644,000	\$4.070,000	-2.0	-19.9	
	13 - Clocker	1,957,903	1,978,533	1,988,032	-1.0	-1.5	\$20.678.274	\$21 969 339	\$72 498 094	-0.3	-2.7	
	14 - Keyslone	886,003	948,899	937,500	-0.0	-55	\$3 821 975	\$4 115 630	\$4 223 297	-7.1	-0.1	
	40 - Adirondack	30,120	31,000	218 605	+1.3	-0.0	\$11 936 396	\$11.328.164	\$11 614 135	+5.4	+2.8	
	66 - Carolintan	217,807	215,055	45 4 94	-11.7	-13.9	\$500,688	\$595,725	\$624,294	-16.0	-19.8	
	67 - Pleamont	39,139	24 729	32 000	+5.7	+14.7	\$1 542 382	\$1.592.465	\$1,600,000	-3.1	-3.6	
	aa- Special traina	30,093	34,720	02,000			C1,012,000	*****	F036 743 896	4.7	0.2	
	Subtotal	13,866,278	14,093,583	14,141,639	-1.6	-1.9	\$758,546,722	\$/91,078,009	\$030,712,300	12.2	47.7	
ong	16 - Silver Star	245,530	252,240	255,604	-2.7	-3.9	\$21,748,283	\$25,007,004	520,439,044	-13.3	11.7	
Distance	17 - Three Rivers	137,234	126,659	125,952	+8.3	+9.0	58.909,507	59,002,000	\$10,100,310	10.6	11.0	
	18 - Cardinal	72,230	74,023	72,384	-2.4	-0.2	\$3,209,686	\$3,520,014	\$31 130 800	.0.1	.17.9	
	19 - Silver Mateor	286.321	248,467	255,871	+15,2	+11.9	525,758,190	520,340,599	513 008 510	.123	.15.4	
	26 - Capitol Ltd.	153,969	145,750	146,291	+5.8	*5.2	\$11,010,362	\$74,008,003	\$25 221 810	-20.6	.23 5	
	45 - Lake Shore Ltd.	265,715	287,779	289,498	-1.1	-0.2	\$14,280,335	\$18 262 193	S16 058 321	-21 2	-10.4	
	46 - Palmetto	184,609	205,930	247 400	-0.0	+2.0	521 016 204	\$25,286,604	\$26 330 310	-13.3	-16.8	
	52 - Crescent	255,531	245,660	247,409	+64.6	+5.2	54 274 263	\$2 855 030	\$3 340 804	+53.2	+30.6	
	57 - Pennsylvanian	124,372	201 580	206 111	-0.9	-31	\$45 395 171	\$50 741 898	\$53,607,844	-10.5	-15.3	
	63 - Auto Train	199,004	4 963 305	4 974 745	-0.3	+2.2	\$176 122 004	\$201 216 731	\$209 018 770	.12.5	.15.7	
	Subtotal	1,935,315	1,863,705	1,0/4,/43	+3.0	+3.2	3170,122,004	\$201,210,751	4205,010,770		1	
Ea	stern Region Total	15,801,593	15,957,288	16,016,384	-1.0	-1.3	\$934,670,726	\$993,095,240	\$1,045,731,356	e.c.	-10.0	
Western	Region											
Short	20 - State House	254 946	225 629	228.101	+13.0	+11.8	\$5,396,567	\$5,655,609	\$5,826,913	-4.6	-7.4	
Distance	21 - Hlawatha	417,356	404.009	402,475	+3.3	+3.7	\$6,806,018	\$6,689,402	\$6.727.737	+1.7	+1.2	
biotarioo	22 - Wolverine	326.367	299.729	298,674	+8.9	+9.3	\$9,121,421	\$9,695.427	\$10,173,345	-5.9	-10.3	
	23 · Illini	102,684	92,143	92,885	+11.4	+10.5	\$2,569,917	\$2,886.282	\$2,961,758	-11.0	-13.2	
	24 - Minois Zenhvr	103,924	94,480	94,959	+10.0	+9.4	\$2,109,391	\$2,338,675	\$2,419,991	-9.8	.12.8	
	29 - Heartland Flyer	48.592	52,584	53,704	-11.4	-13.2	\$756.272	\$903,405	\$933,236	-16.3	-19.0	
	35 - Pacific Surfliner	2,179,427	1,725,234	1,737,755	+26.3	+25.4	\$32,300,086	\$28,356,741	\$28,721,917	+13.9	+12.5	
	36 - Cascades	589,947	579,646	584,767	+1.8	+0.9	\$13,028,721	\$13,003,750	\$13,369,172	+0.2	-2.5	
	37 - Capitols	1,139,136	1,080,109	1,078,080	+5.5	+5.7	\$11,548,364	\$11,013,563	\$11,083,173	+4.9	+4.2	
	39 - San Joequins	782,778	734,236	766,941	+6.6	+2.1	\$18,965,042	\$17,619,999	\$18,372,083	+7.6	+3.2	
	41 - International	80,890	91,714	92,358	-11.8	-12.4	\$2,068,453	\$2,774,139	\$2,835,592	-25.4	-27.1	
	54 - Kenlucky Cardinal	19,179	20,707	18,856	-7.4	+1.7	\$364,505	\$664.435	\$517,896	-45.1	-29.6	
	56 - Mules	139,823	144,201	146.911	-3.0	-4.8	\$2,826,603	\$3,152,611	\$3,263,452	-10.3	-13.4	
	65 - Pere Marquette	73,392	60,127	61,639	+22.1	+19.1	\$1,677,636	\$1,603,951	\$1,641.433	+4.6	+2.2	
	74 - Transbay Buses	-			-		\$69,167	\$76,038	\$76,332	-9.0	-9.4	
	75 - Interline Buses		-			· ·	\$1,375,199	\$1,510.696	\$1,541,812	-9.0	-10.8	
	81 - Thruway Buses					A start	\$852,787	\$1,058,223	\$1,100,963	-19.4	-22.5	
	96 - Special Trains	71,425	62.884	73,100	+13.6	-2.3	\$5,490,243	\$4,402,866	\$5,400,000	+24.1	-14.2	
	Subtotal	6,327,876	5,667,432	5,731,205	+11.7	+10.4	\$117,326,392	\$113,405,812	\$117,966,806	+3.5	-0.5	
Long	25 - Empire Builder	415,722	368,061	365.032	+12.9	+13.9	\$36,125,335	\$39,717,403	\$41,113,253	-9.0	-12.1	
Distance	27 - California Zephyr	323,389	326,991	323,689	-1.1	-0.1	\$31,808,774	\$36,521,077	\$36.830,337	-12.9	-13.6	
	28 - Southwest Chief	273,271	255,858	258,812	+6.8	+5.6	\$31,369,915	\$36,769,919	\$38,063,601	-14.7	-17.6	
	30 - City of New Orleans	181,802	158,747	158,914	+14.5	+14.4	\$10,883.980	\$11,676.428	\$12,214,533	-6.8	-10.5	
	32 · Texas Eagle	155,003	129,208	130,692	+20.0	+18.6	\$13,392,965	\$14,348,688	\$14,892,745	-6.7	-10.1	
	33 - Sunset Ltd.	105.033	97.365	98,677	+7.9	+6.4	\$11,932,883	\$13,793,557	\$14,380.020	-13.5	-17.0	
	34 - Coast Starlight	444,430	445.648	452,358	-0.3	-1.8	\$28,749,287	\$33,271,620	\$34,785,580	-13.6	-17.4	
	Subtotal	1,898,650	1,781,877	1,788,174	+6.6	+6.2	\$164,263,139	\$186,098,692	\$192,280,068	-11.7	-14.6	
w	estern Region Total	8,226,526	7,449,309	7,519,379	+10.4	+9.4	\$281,589,531	\$299,504,505	\$310,246,874	-6.0	.9.2	
-											1	
	Short Distance Total	20,194,154	19,761,015	19,872,844	+2.2	+1.6	\$875,875,114	\$905,284,321	\$954,679,392	-3.2	-8.3	
	Long Distance Total	3,833,965	3,645,582	3,662,919	+5.2	+4.7	\$340,385,143	\$387,315,423	\$401,298,838	-12.1	-15.2	
								:				
	Amtrak Total	24,028,119	23,406,597	23,535,763	+2.7	+2.1	\$1,216,260,257	\$1,292,599,745	\$1,355,978,229	-5.9	-10.	
	and the second se	the second se	and the second second second second									

Note: FY03 ridership and licket revenues reflect deferred ridership of 464,550 and deferred licket revenues of \$25,106,665.

.

A - 28

•

## Appendix B: Additional NEC SFP Figures and Tables FY 2002-2012



Ridership-Total Cost SFP, FY 2002-2012

Total Revenue-Total Cost SFP, FY 2002-2012





Ticket Revenue-Total Cost SFP, FY 2002-2012

RPM-Total Cost SFP, FY 2005-2012


ASM-Total Cost SFP, FY 2005-2012



NEC, Year-To-Year SFP Growth, FY 2002-2005

NEC (excl. Clocker)	Ridership SFP	Total Revenue SFP	Ticket Revenue SFP
2004-2005	13%	1%	2%
2003-2004	9%	3%	3%
2002-2003	1%	-2%	-4%

Acela Express, Year-To-Year SFP Growth, FY 2002-2005

Acela	Ridership SFP	Total Revenue SFP	Ticket Revenue SFP
2004-2005	4%	8%	4%
2003-2004	8%	-3%	1%
2002-2003		-2%	

Metroliner, Year-To-Year SFP Growth, FY 2002-2005

Metroliner	Ridership SFP	Total Revenue SFP	Ticket Revenue SFP
2004-2005	18%	8%	21%
2003-2004	-6%	-1%	-13%
2002-2003		-10%	

,

## Appendix C: Future Data NEC VISION 2013-2040

NEC VISION – Data adapted from Amtrak (2012), as described in Section 4.5.1: Data for the NEC VISION 2013-2040.

Year	Total Net Operating Revenue (\$ billion)	Ridership (million)	Revenue (\$ billion)	Cost (\$ billion)
2010	0.06	10.38	0.92	0.86
2011	0.21	10.90	1.02	0.81
2012	0.29	11.42	1.08	0.79
2013	0.02	12.17	1.15	1.13
2014	0.04	12.92	1.22	1.18
2015	0.04	13.66	1.30	1.26
2016	0.12	14.41	1.37	1.25
2017	0.04	15.16	1.44	1.40
2018	-0.04	15.91	1.51	1.56
2019	-0.29	16.65	1.59	1.87
2020	-0.37	17.40	1.66	2.03
2021	-0.20	18.04	1.74	1.94
2022	-0.20	18.68	1.81	2.02
2023	-0.12	19.32	1.89	2.01
2024	-0.20	19.96	1.96	2.17
2025	0.04	20.60	2.04	2.00
2026	0.37	21.72	2.17	1.80
2027	0.53	22.84	2.30	1.77
2028	0.61	23.96	2.43	1.82
2029	0.53	25.08	2.56	2.03
2030	0.61	26.20	2.69	2.08
2031	0.86	27.93	2.91	2.05
2032	0.94	29.66	3.12	2.19
2033	1.10	31.39	3.34	2.24
2034	1.18	33.12	3.56	2.37
2035	1.18	34.85	3.78	2.59
2036	1.27	36.58	3.99	2.73
2037	1.35	38.31	4.21	2.86
2038	1.35	40.04	4.43	3.08
2039	1.18	41.77	4.64	3.46
2040	1.51	43.50	4.86	3.35

.

.

## **Appendix D: Baseline Figures NEC VISION**

Re-Profiled Base Case – Total Net Operating Revenue (in \$ Billions) (Source: Amtrak (2012))



Ridership Forecasts (in Millions) and Revenue Forecasts (in \$ Billions) (Source: Amtrak (2012))



149

## Key Projects Assumed by Milestone Year (Source: Amtrak (2012))

Figure 14: Key Projects Assumed by Milestone Year
2015 : Acquire 40 Additional Acela Express Passenger Cars
Acquisition and deployment of 40 Acelo Express passenger cars
Extension of HSR S&I facilities (BOS, NYC, WAS)
2020 : Double High-Speed Service - New York to Washing-
ton, and Regional Capacity Improvements
Acquisition and deployment of new HSR train-sets
Expansion of HSR S&I and layover facilities (NYC, WAS)
Kingston Siding Track and Freight Improvements (RI)
Pelham Bay Bridge Replacement (NY)
"Harold" Interlocking Flyover - Bypass Track (NY)
Sunnyside Yard Reconfiguration following East Side Access (NY)
Moynihan Station - Phase 1 and 2 (NY)
North Portal Bridge over Hackensack River (NJ)
NEC NJ Section Improvements - Track, Catenary, Signals (NJ)
Delaware 3nd Track - "Ragan" to "Yard" Interlockings (DE)
BWI Station - Center Platform and 4th Track (MD)
Washington Terminal - Track and Platform Improvements (DC)
2025 : Gateway Program, and Trip-Time / Frequency Improvements - Washington to New York to Boston
Acquisition and deployment of additional HSR train-sets
3rd Track - "Palmers Cove" to "Groton" Interlockings (CT)
Connecticut River Bridge Replacement - Old Saybrook (CT)
Gateway Program: New Hudson River Tunnels (NY-NJ), New Infrastructure from New York to Newark (NY-NJ), Moynihan/ Penn Station Expansion (NY), South Portal Bridge (NJ)
"Hunter" Interlocking Flyover - Bypass Track (NJ)
Elizabeth Area Improvements - Curve Modifications (NJ)
North Brunswick Loop, Trenton Capacity Improvements (NI)
"Momis" to "Frankford" Interlockings - 160 mph MAS (PA)
"Phil" to "Holly" Interlockings - 160 mph MAS (PA-DE)
Bellevue Flyover - Bypass Track (DE)
"Ragan" to "Bacon" Interlockings - 160 mph MAS (DE-MD)
Susquehanna, Bush, Gunpowder Bridge Replacements (MD)
Aberdeen to Martin Airport - 160 mph MAS (MD)
B&P Tunnel Rehabilitation and Replacement (MD)
"Grove" to "Piney" - 4th Track, New Carrollton 3rd Platform (MD)
Washington Union Terminal Station Area Improvements (DC)
2030 : NextGen HSR - New York to Washington Segment
New HSR Infrastructure (Track, Stations, Systems) NVC - WAS
2040 : NextGen HSR - New York to Boston Segment
Deployment of remaining HSR train-sets
New HSR Infrastructure (Track, Stations, Systems) NVC - BOS