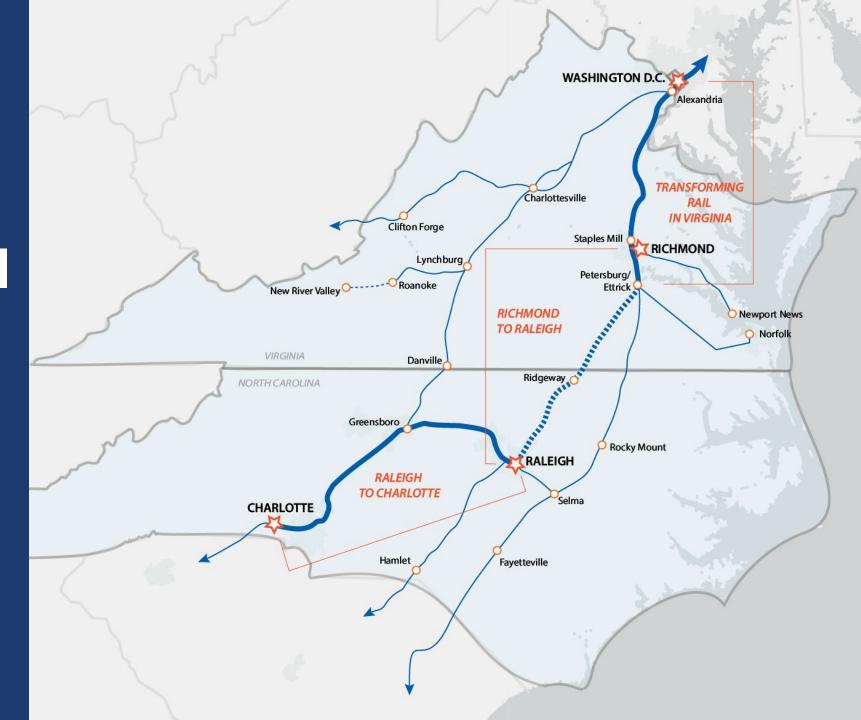
# Passenger Rail Service Performance

Jeremy Latimer Director of Rail Services





# What is On Time Performance? (OTP)

### Customer OTP

- Percentage of **all customers** who arrive at their destination no later than 15 mins after scheduled arrival.
- Recovery in schedule to benefit busiest stations.
- Federal Standard
- Goal: 80%

### All Station OTP

- Percentage of **trains** arriving at a station no later than 15 mins after scheduled arrival.
- Not a federal standard
- Identifies where delays happen.



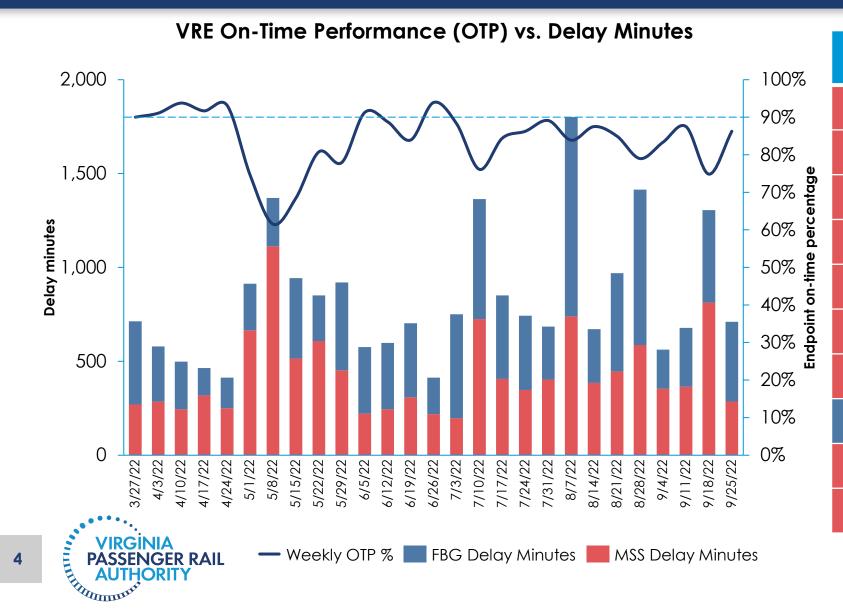
# Virginia Customer OTP

Route	FFY 2022 Quarter 1	FFY 2022 Quarter 2
Richmond, Newport News, Norfolk	74%	75%
Roanoke	81%	77%

- Effective Date of FRA Rule: December 16, 2020
- Application of Standard on the first full calendar quarter after May 17, 2021
  - Oct 1, 2021 Dec 31, 2021 (Q1)
  - Jan 1, 2022 Mar 31, 2022 (Q2)



# **VRE On-Time Performance**



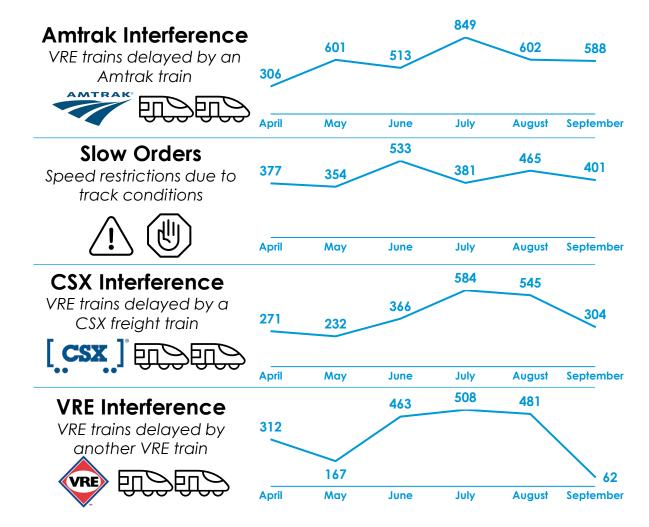
#### **10 Most-Challenged VRE Trains by OTP** April-September 2022

	Арш-	
333	53.5%	<b>Manassas Line</b> (Southbound, dep WAS at 5:30pm)
331	55.1%	<b>Manassas Line</b> (Southbound, dep WAS at 5:10pm)
329	60.1%	<b>Manassas Line</b> (Southbound, dep WAS at 4:10pm)
327	68.5%	<b>Manassas Line</b> (Southbound, dep WAS at 3:20pm)
336	69.5%	<b>Manassas Line</b> (Northbound, arr WAS at 4:57pm)
335	77.2%	<b>Manassas Line</b> (Southbound, dep WAS at 6:00pm)
328	78.7%	<b>Manassas Line</b> (Northbound, arr WAS at 7:35am)
307	80.5%	Fredericksburg Line (Southbound, dep WAS at 4:00pm)
338	80.6%	<b>Manassas Line</b> (Northbound, arr WAS at 6:29pm)
325	82.4%	<b>Manassas Line</b> (Southbound, dep WAS at 1:15pm)



# VRE Top Delay Trends – April-September 2022

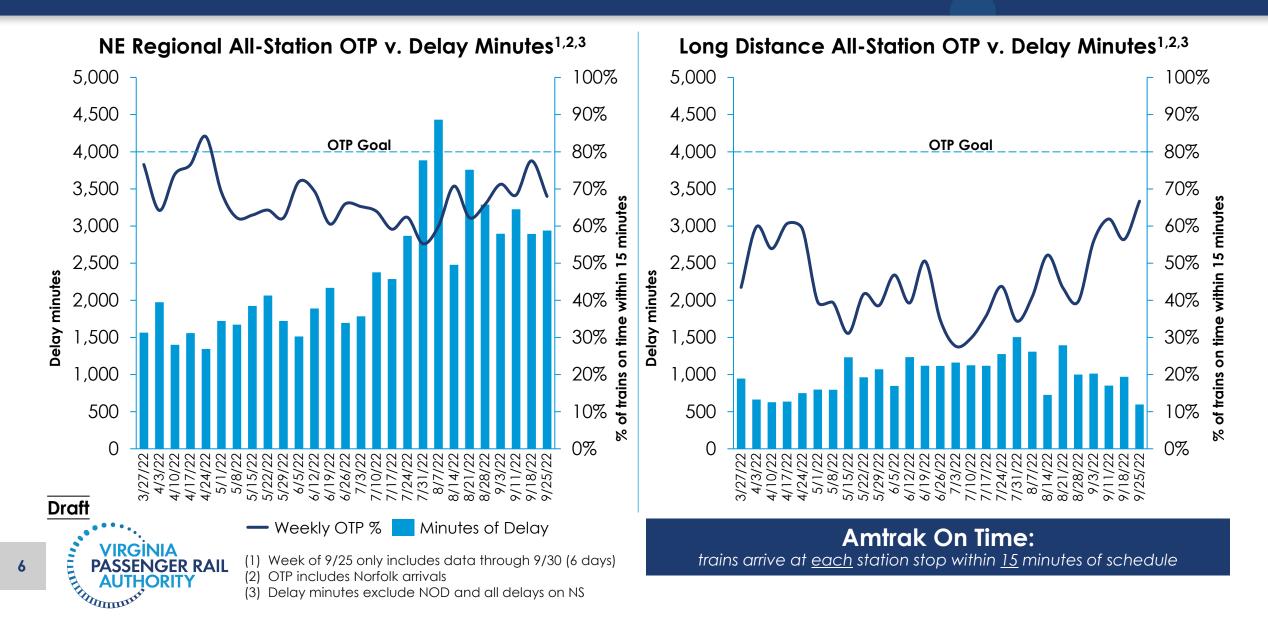
#### April-September 2022 Total Delay Minutes by Category – Top Four Delay Categories





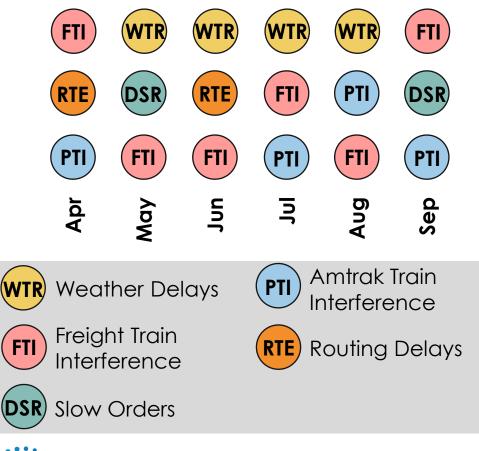
5

## Amtrak On-Time Performance in Virginia

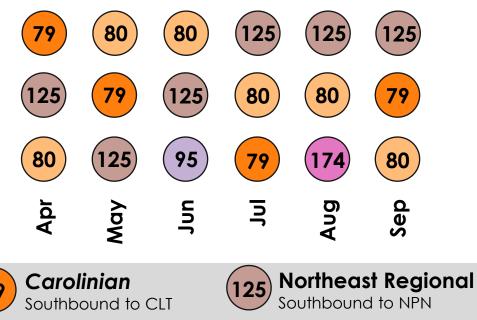


# Amtrak Top Delay Categories and Delayed Trains

#### Top 3 Delay Categories by Month<sup>1,2</sup>



#### Top 3 Delayed Trains by Month<sup>1,2</sup>





Northeast Regional Northbound from NPN



80

Northeast Regional Southbound to NFK



7

Draft

# Amtrak Top Delay Locations on RF&P: April-Sept. 2022



	XVG - ALX	RVR - PTB	RVR - PTB	XVG - ALX	WAS - WAS	WAS - WAS	
	WAS - WAS	XVG - ALX	FBG - ASD	WAS - WAS	XVG - ALX	XVG - ALX	
	RVR - PTB	WAS - WAS	XVG - ALX	RVR - PTB	RVR - PTB	RVR - PTB	
	Apr	May	nu	חר	Aug	Sep	
- WAS	Washington Un (delay in station)	nion Station		FBG - ASD	Fredericksburg (does not include C	•	
- ALX	<b>CP Virginia – </b> (CP Virginia is at 2 <sup>n</sup> segment includes I	<sup>nd</sup> Ave. SW & E St., n	ear L'Enfant VRE;	RVR - PTB	Richmond-Stap	oles Mill Road	- Petersburg



WAS

XVG

8



#### April 2022 Station OTP (OT≤15")

	Northbound				Southbound			
Station Name	80 Carolinian	Northeast Regional	90 Palmetto	92 Silver Star	79 Carolinian	Northeast Regional	89 Palmetto	91 Silver Star
Washington Union	60%▲	85%▼	77%▼	20%▲	93%▼	83%▲	97%▲	57%▼
Alexandria	53%▲	84%▲	47%▼	17%▲	80%▼	68%▼	97%▲	43%▲
Woodbridge		92%▲				68%▼		
Quantico	53%▲	85%▲			77%▲	59%▲		
Fredericksburg	53%▲	88%▲			73%▼	57%▲		
Ashland		90%▼				52%▲		
Richmond Staples Mill Road	63%▲	91%▼	43%▼	20%▲	87%▲	57%▲	87%▲	33%▲
<b>Richmond Main Street</b>		93%▲				62%▼		
Williamsburg		100%▲				66%▲		
Newport News						69%▼		
Petersburg	43%▲	93%▲	27%▲	17%▲	77%▲	56%▲	77%▼	33%▲
Norfolk						69%▼		
	1							



### Amtrak Trains arriving in Virginia late hurts OTP

#### May 2022 Station OTP (OT≤15")

	Northbound			Southbound				
Station Name	<b>80</b> Carolinian	Northeast Regional	90 Palmetto	92 Silver Star	79 Carolinian	Northeast Regional	89 Palmetto	91 Silver Star
Washington Union	19%▼	78%▼	9%▼	0%▼	87%▼	66%▼	95%▼	52%▼
Alexandria	19%▼	80%▼	9%▼	0%▼	71%▼	52%▼	95%▼	35%▼
Woodbridge		95%▲				51%▼		
Quantico	19%▼	86%▲			65%▼	39%▼		
Fredericksburg	19%▼	90%▲			68%▼	39%▼		
Ashland		92%▲				30%▼		
Richmond Staples Mill Road	45%▼	95%▲	14%▼	3%▼	68%▼	38%▼	82%▼	16%▼
<b>Richmond Main Street</b>		90%▼				39%▼		
Williamsburg		97%▼				39%▼		
Newport News						42%▼		
Petersburg	39%▼	91%▼	9%▼	0%▼	52%▼	37%▼	68%▼	10%▼
Norfolk						49%▼		
VIRGINIA	▲ ▼Change f	from previous	month					



### As temperatures rose, performance decreased.

#### June 2022 Station OTP (OT≤15")

		North	oound		Southbound			
Station Name	80 Carolinian	Northeast Regional	90 Palmetto	92 Silver Star	79 Carolinian	Northeast Regional	89 Palmetto	<b>91</b> Silver Star
Washington Union	20%▲	84%▲	30%▲	0%	97%▲	72%▲	93%▼	70%▲
Alexandria	17%▼	82%▲	13%▲	0%	80%▲	62%▲	83%▼	50%▲
Woodbridge		90%▼				59%▲		
Quantico	13%▼	83%▼			73%▲	45%▲		
Fredericksburg	13%▼	84%▼			83%▲	47%▲		
Ashland		90%▼				30%▼		
Richmond Staples Mill Road	50%▲	91%▼	27%▲	0%▼	83%▲	34%▼	83%▲	27%▲
<b>Richmond Main Street</b>		83%▼				53%▲		
Williamsburg		93%▼				40%▲		
Newport News						40%▼		
Petersburg	30%▼	88%▼	7%▼	0%	67%▲	36%▼	73%▲	27%▲
Norfolk						43%▼		
• • • • • • • • • • • • • • • • • • •								

▲ ▼ Change from previous month



### NB Silver Star never arrived on time in June.

#### July 2022 Station OTP (OT≤15")

	Northbound				Southbound			
Station Name	<b>80</b> Carolinian	Northeast Regional	90 Palmetto	92 Silver Star	79 Carolinian	Northeast Regional	89 Palmetto	91 Silver Star
Washington Union	13%▼	66%▼	26%▼	0%	90%▼	74%▲	100%▲	52%▼
Alexandria	16%▼	68%▼	16%▲	0%	58%▼	62%▼	77%▼	32%▼
Woodbridge		66%▼				49%▼		
Quantico	16%▲	69%▼			52%▼	36%▼		
Fredericksburg	16%▲	73%▼			58%▼	35%▼		
Ashland		82%▼				23%▼		
Richmond Staples Mill Road	42%▼	85%▼	26%▼	3%▲	55%▼	26%▼	87%▲	13%▼
<b>Richmond Main Street</b>		69%▼				43%▼		
Williamsburg		88%▼				43%▲		
Newport News						45%▲		
Petersburg	32%▲	88%▲	19%▲	0%	39%▼	19%▼	74%▲	10%▼
Norfolk			-			31%▼		
<b>••••</b>								



#### VIRGINIA PASSENGER RAIL AUTHORITY

### Heat Orders had major impacts on trains in July.

#### August 2022 Station OTP (OT≤15")

	Northbound			Southbound				
Station Name	<b>80</b> Carolinian	Northeast Regional	<b>90</b> Palmetto	92 Silver Star	79 Carolinian	Northeast Regional	89 Palmetto	91 Silver Star
Washington Union	16%▲	71%▲	58%▲	6%▲	97%▲	75%▲	87%▼	74%▲
Alexandria	10%▼	70%▲	40%▲	3%▲	77%▲	63%▲	80%▲	23%▼
Woodbridge		64%▼				54%▲		
Quantico	16%	71%▲			71%▲	43%▲		
Fredericksburg	16%	76%▲			68%▲	<b>4</b> 1%▲		
Ashland		85%▲				34%▲		
Richmond Staples Mill Road	42%	90%▲	67%▲	0%▼	84%▲	38%▲	83%▼	13%
<b>Richmond Main Street</b>		74%▲				49%▲		
Williamsburg		97%▲				53%▲		
Newport News						56%▲		
Petersburg	23%▼	92%▲	33%▲	3%▲	61%▲	29%▲	77%▲	10%
Norfolk						44%▲		
•••••								



▲ ▼ Change from previous month

### August performance was similar to July.

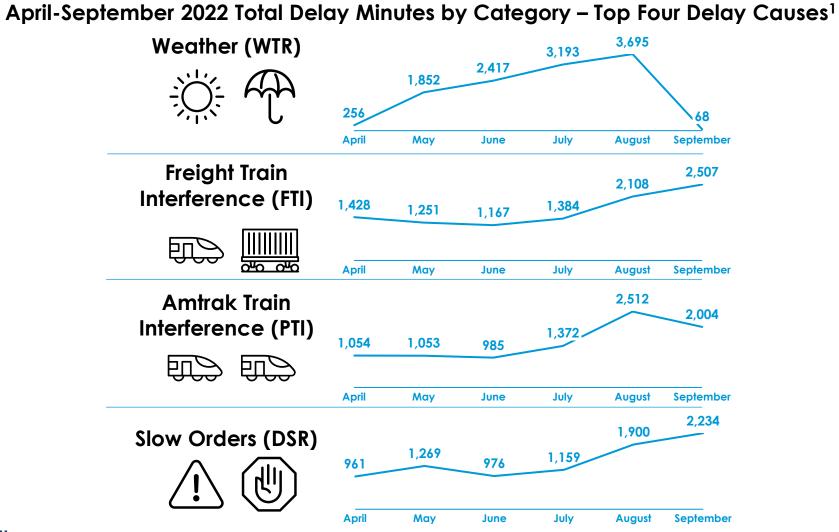
#### September 2022 Station OTP (OT≤15")

	Northbound			Southbound				
Station Name	<b>80</b> Carolinian	Northeast Regional	90 Palmetto	92 Silver Star	79 Carolinian	Northeast Regional	89 Palmetto	91 Silver Star
Washington Union	53%▲	76%▲	86%▲	24%▲	93%▼	86%▲	97%▲	79%▲
Alexandria	53%▲	78%▲	54%▲	20%▲	73%▼	66%▲	85%▲	42%▲
Woodbridge		75%▲				67%▲		
Quantico	50%▲	78%▲			70%▼	54%▲		
Fredericksburg	50%▲	84%▲			73%▲	55%▲		
Ashland		84%▼				44% ▲		
Richmond Staples Mill Road	63%▲	89%▼	42%▼	20%▲	67%▼	52%▲	74%▼	33%▲
<b>Richmond Main Street</b>		75%▲				60%▲		
Williamsburg		88%▼				65%▲		
Newport News						70%▲		
Petersburg	43%▲	93%▲	38%▲	24%▲	63%▲	55%▲	74%▼	21%▲
Norfolk						64%▲		
	<b>▲</b> ▼Change f	rom previous	month					



# Heat Orders subsided in September.

# Amtrak Top Delay Trends – April-September 2022





(1) Does not include NOD delays

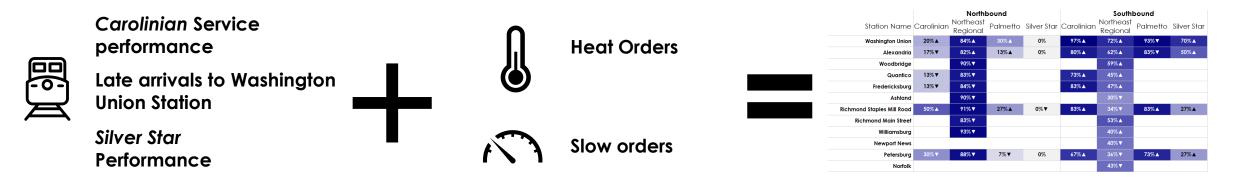
# **Challenges in Virginia to Achieve Higher OTP**

On time performance can only be achieved when trains originate on time and maintain speeds consistent with the underlying service plan

### Trains arrive VA in unplanned slots

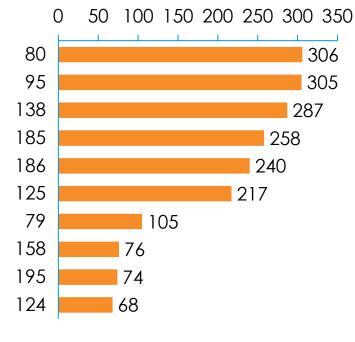
### Trains operate at slower than planned speeds

Fluid operating conditions difficult to dispatch, OTP suffers

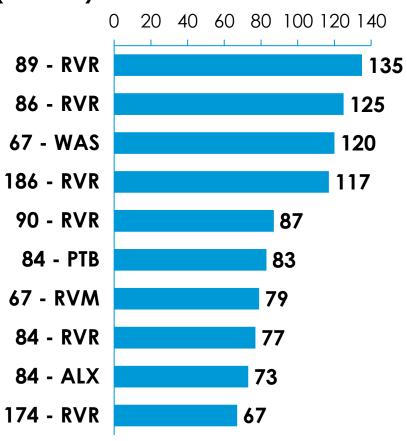


# Some trains minimally affected by heat orders continue to have high NOD, especially at RVR

#### Trains with most total minutes of heat-related delays in August<sup>1</sup> (60+ min)



Trains and Stations with Highest NOD (60+ min)





(1) Includes data from Aug 1-31

# Next Steps

- Continue to collaborate on performance trends
- Deep-dive review of No Delay
- Discuss Heat Orders with Amtrak and CSX
- Review Station Dwell Time performance
- Begin 6 month review of Acquisition Schedules (July October)
- Present to Amtrak Board

