

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
1	North Carolina Passenger Service Performance Metrics																		
2	Actual 2008*																		
3	Average Trips Length			First Full Year After					First Full Year After					First Full Year After					
4																			
5																			
6	Annual Passenger Trips	Base	2009	2010 3rd	2011 - 3rd	2012 - -3rd	2013 - 3rd	2014 - 3rd	2014 - 4th	2015 - 3rd	2015 - 4th	2016 - 3rd	2016 - 4th	2016 - 5th	2017 - 3rd	2017 - 4th	2017 - 5th		
7	Piedmont	65,941	65,941	71,430	386,857	402,700	416,794	430,299	430,299	444,240	444,240	458,722	458,722	458,722	473,677	473,677	473,677		
8	Carolinian	295,427	295,427	299,870	312,435	325,233	336,616	347,523	347,523	358,782	358,782	370,479	370,479	370,479	382,556	382,556	382,556		
9	Total Frequency related increases								120,400		124,301		128,353	206,700		132,537	213,438		
10	Frequency related 3rd			42,800	44,593	46,417	48,042	49,598		51,205		52,875			54,598				
11	Frequency related 4th								70,802		73,096		75,479						
12	Frequency related 5th													78,347				77,939	80,901
13	Total Frequency related increases through 5th																		
14	Frequency SEHSR																		
15	Carolinian overflow to SEHSR																		
16																			
17	Total	361,368	sum P+C+Pg	414,100	431,451	449,117	464,836	479,897	550,699	495,446	568,541	458,722	587,076	665,422	473,677	606,214	687,115		
18			Base +Freq.	414,100	431,451	449,117	464,836	479,897	550,699	495,446	568,541	458,722	587,076	665,422	473,677	606,214	687,115		
19			Piedmont	114,230	119,016	123,884	128,220	132,374	203,176	136,663	209,759	141,118	216,597	294,944	145,719	223,658	304,559		
20																			
21	Annual Passenger Miles (millions)	Base		102.01	105.58	109.06	112.06	115.03	115.03	117.91	117.91	120.86	120.86	120.86	123.89	123.89	123.89		
22	Piedmont	118	7.802	7.802	8.449	8.74	9.03	9.28	9.53	9.53	9.77	9.77	10.01	10.01	10.26	10.26	10.26		
23	Piedmont Avg Trip miles		118	118	118	117	116	115	115	114	114	113	113	113	113	113	113		
24	Carolinian	312	92.175	92.175	93.561	96.84	100.03	102.78	105.50	105.50	108.14	108.14	110.85	110.85	113.63	113.63	113.63		
25	Carolinian Avg Trip miles		312	312	310	308	305	304	304	301	301	299	299	299	297	297	297		
26	Total Frequency related increases			5.330	5.52	5.70	5.86	6.01	14.51	6.16	14.98	6.32	15.36	25.22	6.47	15.74	25.85		
27	3rd Frequency related			5.33	5.52	5.70	5.86	6.01		6.16		6.32			6.47				
28	4th Frequency related								8.50		8.82		9.04						
29	5th Frequency related													9.86					
30	Total Frequency related increases through 5th																		
31	Frequency SEHSR																		
32	Carolinian overflow to SEHSR																		
33	Total	99.976	99.620	107.34	111.10	114.76	117.91	121.04	129.54	124.07	132.89	127.18	136.22	146.08	130.36	139.63	149.74		
34			Base +Freq.	107.34	111.10	114.76	117.91	121.04	129.54	124.07	132.89	127.18	136.22	146.08	130.36	139.63	149.74		
35			Piedmont	13.78	14.26	14.73	15.14	15.54	24.04	15.93	24.75	16.33	25.37	35.23	16.73	26.00	36.11		
36	Annual IPR seat miles offered (millions)																		
37	Piedmont	16	17	32	32	32	32	32	47	32	47	32	47	63	32	47	63		
38	Load Factor	50%	47%	44%	45%	47%	48%	49%	51%	51%	52%	52%	54%	56%	53%	55%	57%		
39	Carolinian	119	119	119	119	119	119	119	119	131	131	131	131	131	131	131	131		
40	Load Factor	78%	78%	79%	82%	84%	87%	89%	89%	83%	83%	85%	85%	85%	87%	87%	87%		
41	SEHSR																		
42	Load Factor																		
43	Total	135	136	151	151	151	151	151	167	164	179	164	179	195	164	179	195		
44	Average number of daily roundtrip operations (typical weekday)																		
45	Piedmont	1	1	2	2	2	2	2	3	2	3	2	3	4	2	3	4		
46	Carolinian	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
47	SEHSR																		
48	Total	2	2	3	3	3	3	3	4	3	4	3	4	5	3	4	5		
49																			
50	OTP																		
51	Piedmont	70.1%	70.1%	70.0%	70.0%	70.0%	70.0%	70.0%	80.0%	70.0%	80.0%	70.0%	80.0%	80.0%	70.0%	80.0%	80.0%		
52	Carolinian	60.7%	60.7%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%		
53	SEHSR																		
54	Average	63.2%	63.2%	64.2%	64.2%	64.2%	64.2%	64.2%	70.4%	64.2%	70.4%	64.2%	70.4%	71.8%	64.2%	70.4%	71.8%		
55																			

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
3			Actual 2008*																
4		Average Trips Length			First Full Year After					First Full Year After					First Full Year After				
5			2009	2010 3rd	2011 - 3rd	2012--3rd	2013 - 3rd	2014 - 3rd	2014 - 4th	2015--3rd	2015 - 4th	2016- 3rd	2016- 4th	2016 - 5th	2017- 3rd	2017 - 4th	2017 - 5th		
57		Average train operating delays: minutes of enroute delays per 10,000 miles																	
58		<i>Piedmont</i>	1228	1,228	1228	1228	1228	1228	1228	1228	1228	1382	1228	1228	1382	1228	1228		
59		<i>Carolinian</i>	1502	1,502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502	1502		
60		(changed to average) Total	1365	1,365	1365	1365	1365	1365	1365	1365	1365	1442	1365	1365	1442	1365	1365		
62		Top operating speed																	
63		<i>Piedmont</i>	79	79	79	79	79	79	79	79	79	79	79	90*	79	79	90*		
64		<i>Carolinian</i>	79	79	79	79	79	79	79	79	79	79	79	90*	79	79	90*		
65		<i>SEHSR</i>																	
67		Average scheduled operating speed (MPH) (between endpoints)																	
68		<i>Piedmont</i>	54.0	54	54.0	54.0	54.0	54.0	54.0	55.2	54.0	55.2	54.0	55.2	58.0	54.0	55.2	58.0	
69		<i>Carolinian</i>	50.4	50	50.4	50.4	50.4	50.4	50.4	51.3	50.4	51.3	50.4	51.3	52.2	50.4	51.3	52.2	
70																			
71			51.4	51	51.9	51.9	51.9	51.9	51.9	53.4	51.9	53.4	51.9	53.4	55.6	51.9	53.4	55.6	
72		Passenger Revenue millions\$		16,644	17,380	18,275	19,326	20,180	21,129	21,129	22,153	22,091	23,097	23,097	23,097	24,150	24,150	24,150	
73		<i>Piedmont</i>	1.08	1.057	1.173	1.238	1.305	1.367	1.432	1.432	1.4969	1.4969	1.565	1.565	1.565	1.636	1.636	1.636	
74		<i>Rate/mile</i>	0.138	0.136	0.139	0.142	0.144	0.14732	0.150	0.150	0.1533	0.1533	0.156	0.156	0.156	0.159	0.159	0.159	
75		<i>Carolinian</i>	16.03	15.587	16.138	17.036	17.950	18.812	19.697	19.697	20.5943	20.5943	21.532	21.532	21.532	22.513	22.513	22.513	
76		<i>Rate/mile</i>	0.174	0.169	0.172	0.176	0.179	0.18304	0.187	0.187	0.1904	0.1904	0.194	0.194	0.194	0.198	0.198	0.198	
77		<i>SEHSR - Rate/mile</i>																	
78				1.02439	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	
79																			
80		<i>Total Frequency related increases</i>		0.749	0.781	0.823	0.863	0.903	0.903	2.170	0.944	2.296	0.987	2.401	3.192	1.032	2.510	4.123	
81		<i>Frequency related 3rd</i>		0.75	0.78	0.82	0.86	0.90	0.90	1.27	0.94	1.35	0.99	1.41	1.03	1.48	1.61		
82		<i>Frequency related 4th</i>																	
83		<i>Frequency related 5th</i>												0.79					
84		<i>Total Frequency related increases through 5th</i>																	
85		<i>Frequency SEHSR</i>																	
86		<i>Carolinian overflow to SEHSR</i>																	
87																			
88		Total	17.11	16.64	18.12900	19.05590	20.14905	21.04234	22.03196	23.299	23.097	24.387	24.085	25.498	26.289	25.182	26.660	28.272	
89				16.64	18.05954	19.05590	20.07761	21.04234	22.03196	23.299	23.036	24.387	24.085	25.498	26.289	25.182	26.660	28.272	
90					1.92	2.02	2.13	2.23	2.33	3.60	2.44	3.79	2.55	3.97	4.76	2.67	4.15	5.76	
91																			
92		<i>Rate per passenger mile</i>		0.167	0.169	0.172	0.176	0.178	0.182	0.180	0.186	0.184	0.189	0.187	0.180	0.193	0.191	0.189	
93																			
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112																			

Escalator's used to Calculate Operations Values for Future Years*

	Trips*	Passenger Miles	Revenue*
2010-2011	4.19%	3.50%	2.00%
2011-2012	4.09%	3.30%	2.00%
2012-2013	3.50%	2.75%	2.00%
2013-2014	3.24%	2.65%	2.00%
2014-2015	3.24%	2.50%	2.00% **
2016 and after	3.26%	2.50%	2.00%

Modeling Assumptions

	Start Date	Travel Time Raleigh to Charlotte	Travel Time Raleigh to DC	OTP %
4th Frequency	2nd Qtr 2012	Piedmont 3 hrs 9 min Carolinian 3 hrs 21 mins		80%
5th Frequency	2nd Qtr 2014	3 hrs 0 min 3 hrs 10 mins		80%
SEHSR DC	3rd Qtr 2017	2 hrs 35 min 2 hrs 45 mins	4 hours	90%

*Source Amtrak Jeff Mann

**Added to meet the base year for next frequency estimates

Amtrak provided first year estimates based on modeling

Note: The 4th Frequency start date was moved from 2012 to 2014 so base year estimates were for 2012. The same increases related to the frequency were used in 2014.

Note: The 5th Frequency start date was moved from 2015 to 2016 so base year estimates were for 2015. The same increases related to the frequency were used in 2016.

	A	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
1	North Carolina Passer															
2																
3																
4					First Full Year After					Tenth Full Year After						
5		2018 - 3rd	2018 - 4th	2018 - 5th*	2018 - SEHSR*	2019-3rd	2019 - 4th	2019 - 5th*	2019 - SEHSR*	2020 - 3rd	2020 - 4th	2020 - 5th*	2020 - SEHSR*	2021 - 4th	2021 - 5th*	2021 - SEHSR*
6	Annual Passenger Trips	489,100	489,100	489,100	489,100	505,044	505,044	505,044	505,044	521,509	521,509	521,509	521,509	538,510	538,510	538,510
7	Piedmont	94,091	94,091	94,091	94,091	97,158	97,158	97,158	97,158	100,326	100,326	100,326	100,326	103,596	103,596	103,596
8	Carolinian	395,009	395,009	395,009	395,009	388,934	388,934	388,934	388,934	391,810	391,810	391,810	391,810	394,716	394,716	394,716
9	Total Frequency related increases		136,858	220,397	1,152,600	141,320	227,537	1,190,175		145,927	234,955	1,228,974		150,684	242,615	1,269,039
10	Frequency related 3rd	56,378				58,216				60,114						62,074
11	Frequency related 4th		80,480				83,104				85,813			90,570		
12	Frequency related 5th			83,538				86,218				89,028			91,931	
13	Total Frequency related increases through 5th															
14	Frequency SEHSR				220,397				227,537				234,955	-		242,615
15	SEHSR				1,015,742				1,067,807				1,112,421	-		1,156,593
16	Carolinian overflow to SEHSR					18,952	18,952	18,952	18,952	29,373	29,373	29,373	29,373	40,338	40,338	40,198
17	Total	489,100	625,958	709,496	1,641,700	486,092	646,364	732,582	1,695,219	521,509	667,436	756,464	1,750,483	689,334	781,264	1,807,549
18		489,100	625,958	709,496	1,641,700	486,092	627,412	732,582	1,695,219	521,509	667,436	756,464	1,750,483	689,194	781,125	1,807,549
19		150,469	230,949	314,488	230,949	155,375	238,478	324,696	238,478	160,440	246,253	335,281	246,253	254,280	346,211	254,280
20																
21	Annual Passenger Miles (millions)	127.15	127.15	127.15	127.15	130.34	130.34	130.34	130.34	133.60	133.60	133.60	133.60	136.95	136.95	136.95
22	Piedmont	10.52	10.52	10.52	10.52	10.78	10.78	10.78	10.78	11.05	11.05	11.05	11.05	11.33	11.33	11.33
23	Piedmont AvgTrip miles	112	112	112	112	111	111	111	111	110	110	110	110	109	109	109
24	Carolinian	116.63	116.63	116.63	116.63	114.00	114.00	114.00	114.00	114.00	114.00	114.00	114.00	114.00	114.00	114.00
25	Carolinian AvgTrip miles	295	295	295	295	293	293	293	293	291	291	291	291	289	289	289
26	Total Frequency related increases	6.64	16.13	26.50	311.49	6.80	16.54	27.16	319.29	6.97	16.95	27.84	327.29	17.38	28.54	335.49
27	3rd Frequency related	6.64				6.80				6.97			7.15			7.3256410
28	4th Frequency related		9.50				9.74				9.98			10.230642		
29	5th Frequency related			10.37				10.62				10.89			11.16	
30	Total Frequency related increases through 5th															
31	Frequency				26.50				27.16				27.84			28.54
32	SEHSR increases				295				303				319			329.549094
33	Carolinian overflow to SEHSR					5.55	5.55	5.55	5.55	8.55	8.55	8.55	8.55	11.62	11.62	11.62
34	Total	133.79	143.28	153.65	438.64	137.14	141.32	157.50	449.63	140.57	142.00	152.90	460.89	142.71	165.49	472.43
35		133.79	143.28	153.65	438.64	137.14	141.32	157.50	449.63	140.57	142.00	152.90	460.89	142.71	165.49	472.43
36		17.15	26.65	37.02	26.65	17.58	27.32	37.95	27.32	18.02	28.00	38.90	28.00	28.71	39.87	28.71
37	Annual IPR seat miles offered (millions)															
38	Piedmont	32	47	63	47	32	47	63	47	32	47	63	47	63	47	
39	Load Factor	54%	56%	59%	56%	56%	58%	60%	58%	57%	59%	62%	59%	61%	63%	61%
40	Carolinian	131	131	131	131	131	131	131	131	131	131	131	131	131	131	131
41	Load Factor	89%	89%	89%	89%	87%	87%	87%	87%	87%	87%	87%	87%	87%	87%	87%
42	SEHSR				604				604				604			604
43	Load Factor				49%				50%				53%			55%
44	Total	164	179	195	784	164	179	195	784	164	179	195	784	180	195	784
45	Average number of daily roundtrip operations (typical weekday)															
46	Piedmont	2	3	4	3	2	3	4	3	2	3	4	3	3	4	3
47	Carolinian	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
48	SEHSR				4				4				4			4
49	Total	3	4	5	8	3	4	5	8	3	4	5	8	4	5	8
50	OTP															
51	Piedmont	70.0%	80.0%	80.0%	90.0%	70.0%	80.0%	80.0%	90.0%	70.0%	80.0%	80.0%	90.0%	80.0%	80.0%	90.0%
52	Carolinian	60.0%	60.0%	60.0%	80.0%	60.0%	60.0%	60.0%	80.0%	60.0%	60.0%	60.0%	80.0%	60.0%	60.0%	80.0%
53	SEHSR				90.0%				90.0%				90.0%			90.0%
54	Average	64.2%	70.4%	71.8%	88.3%	64.2%	70.4%	71.8%	88.3%	64.2%	70.4%	71.8%	88.3%	70.4%	71.8%	88.3%
55																

	A	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
3																
4					First Full Year After					Tenth Full Year After						
5		2018 - 3rd	2018 - 4th	2018 - 5th*	2018 - SEHSR*	2019-3rd	2019 - 4th	2019 - 5th*	2019 - SEHSR*	2020 - 3rd	2020 - 4th	2020 - 5th*	2020 - SEHSR*	2021 - 4th	2021 - 5th*	2021 - SEHSR*
57	Average train operating delays: minutes of enroute delays per 10,000 miles															
58	<i>Piedmont</i>	1382	1228	1228	1382	1689	1228	1228	1382	1228	1053	1053	921	1053	1053	921
59	<i>Carolinian</i>	1502	1502	1502	1502	1878	1502	1502	1502	1502	1502	1502	1001	1502	1502	1001
60	(changed to average) Total	1442	1365	1365	1442	1783	1365	1365	1442	1365	1278	1278	961	1278	1278	961
62	Top operating speed															
63	<i>Piedmont</i>	79	79	90*	90*	79	79	90*	90*	79	79	90*	90*	79	90*	90*
64	<i>Carolinian</i>	79	79	90*	90*	79	79	90*	90*	79	79	90*	90*	79	90*	90*
65	<i>SEHSR</i>				110*			110*	110*			110*	110*		110*	110*
66	Average scheduled operating speed (MPH) (between endpoints)															
67	<i>Piedmont</i>	54.0	55.2	58.0	67.4	54.0	55.2	58.0	67.4	54.0	55.2	58.0	67.4	55.2	58.0	67.4
68	<i>Carolinian</i>	50.4	51.3	52.2	54.7	50.4	51.3	52.2	54.7	50.4	51.3	52.2	54.7	51.3	52.2	54.7
69					94.5				94.5				94.5			94.5
70					82.6				82.6				82.6			82.6
71	Passenger Revenue millions\$	51.9	53.4	55.6	82.6	51.9	53.4	55.6	82.6	51.9	53.4	55.6	82.6	53.4	55.6	82.6
72	<i>Piedmont</i>	25.281	25.281	25.281	25.321	25.288	25.288	25.288	25.288	25.839	25.839	25.839	25.839	26.404	26.404	26.404
73	<i>Carolinian</i>	1.711	1.711	1.711	1.711	1.789	1.789	1.789	1.789	1.870	1.870	1.870	1.870	1.956	1.956	1.956
74	<i>Rate/mile</i>	0.163	0.163	0.163	0.163	0.166	0.166	0.166	0.166	0.169	0.169	0.169	0.169	0.173	0.173	0.173
75	<i>SEHSR - Rate/mile</i>	0.202	0.202	0.202	0.202	0.206	0.206	0.206	0.206	0.210	0.210	0.210	0.210	0.214	0.214	0.214
76	<i>SEHSR - Rate/mile</i>	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000
77	Total Frequency related increases	1.079	2.624	4.310	62.159	1.128	2.744	4.507	64.724	1.180	2.869	5.159	68.119	3.000	4.927	71.221
78	<i>Frequency related 3rd</i>	1.08				1.13				1.18			1.21			1.26
79	<i>Frequency related 4th</i>		1.55				1.62				1.69			1.79		
80	<i>Frequency related 5th</i>			1.69				1.76				2.29			1.93	
81	Total Frequency related increases through 5th				4.31				4.51				5.16		3.14	4.93
82	<i>SEHSR</i>				59.53				63.12				67.05			70.71
83	<i>Carolinian overflow to SEHSR</i>								1.14	1.80	1.80	1.80	1.80	2.49	2.49	2.49
84	Total	26.360	27.905	29.591	87.480	26.416	28.032	29.794	91.156	27.019	28.708	30.998	95.755	29.403	31.330	100.117
85		26.360	27.905	29.591	87.440	26.416	28.032	29.794	91.156	27.019	28.708	30.998	95.755	29.403	31.330	100.117
86		2.79	4.34	6.02	63.87	2.92	4.53	6.30	64.75	3.05	4.74	7.03	67.70	4.96	6.88	71.25
87	Rate per passenger mile	0.197	0.195	0.193	0.199	0.193	0.198	0.189	0.203	0.192	0.202	0.203	0.208	0.206	0.189	0.212
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	A	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW
1	North Carolina Passer																
2																	
3																	
4					Tenth Full Year After					Tenth Full Year After							Tenth Full Year After
5		2022 - 4th	2022 - 5th*	2022 - SEHSR*	2023 - 4th	2023 - 5th*	2023 - SEHSR*	2024 - 5th*	2024 - SEHSR*	2025 - 5th*	2025 - SEHSR*	2026 - SEHSR*	2027 - SEHSR*	* Fifth Frequency is in-state segment of a DC train and is added to SEHSR trips			
6	Annual Passenger Trips	556,065	556,065	556,065	574,193	574,193	574,193	592,912	592,912	612,241	612,241	632,200	652,810	2009 forecast escalated			
7	Piedmont	106,974	106,974	106,974	110,461	110,461	110,461	114,062	114,062	117,780	117,780	121,620	125,585				
8	Carolinian	397,470	397,470	397,470	400,390	400,390	400,390	403,335	403,335	406,303	406,303	409,292	412,302	Trips limited by 9 coach limit for train			
9	Total Frequency related increases	155,596	250,524	1,310,410	160,669	258,691	1,353,129	267,124	1,397,241	275,833	1,442,791	1,489,826	1,538,394				
10	Frequency related 3rd			64,097			66,187		68,345		70,573	72,873	75,249				
11	Frequency related 4th	93,523			94,482				97,562		100,742	104,027	107,418				
12	Frequency related 5th		94,928			98,022		101,218		104,517		107,925	111,443	Fifth Frequency becomes a DC train with SEHSR			
13	Total Frequency related increases through 5th			250,524			258,691		267,124		275,833	284,825	294,110				
14	Frequency SEHSR			1,204,411			1,255,802		1,306,849		1,359,633	1,414,214	1,470,650	Total SEHSR includes Carolinian overflow in line below			
15	Carolinian overflow to SEHSR	51,621	51,621	51,621	63,342	63,342	63,342	75,515	75,515	88,157	88,157	101,287	114,923				
16	Total	711,662	806,589	1,866,475	734,862	832,884	1,927,322	860,036	1,990,153	888,073	2,055,032	2,122,026	2,191,204	inflation factor to get 5th year see below			
17		711,662	806,589	1,866,475	734,862	832,884	1,927,322	860,036	1,990,153	888,073	2,055,032	2,122,026	2,191,204				
18		262,570	357,498	262,570	271,130	369,152	271,130	381,186	279,969	393,613	289,096	298,520	308,252				
19	Annual Passenger Miles (millions)	140.38	140.38	140.38	143.89	143.89	143.89	147.50	147.50	151.19	151.19	154.98	158.86	2009 forecast escalated			
20	Piedmont	11.61	11.61	11.61	11.90	11.90	11.90	12.20	12.20	12.51	12.51	12.82	13.14				
21	Piedmont Avg Trip miles	109	109	113	108	108	108	107	107	106	106	105	105				
22	Carolinian	114.00	114.00	114.00	114.00	114.00	114.00	114.00	114.00	114.00	114.00	114.00	114.00				
23	Carolinian Avg Trip miles	287	287	287	285	285	285	283	283	281	281	279	276				
24	Total Frequency related increases	17.81	29.26	343.89	18.26	29.99	352.51	30.74	361.34	31.51	370.39	379.66	389.17				
25	3rd Frequency related			7.51			7.70		7.89		8.09	8.29	8.50				
26	4th Frequency related	10.49			10.56				10.83		11.10	11.38	11.66				
27	5th Frequency related		11.44			11.73		12.02		12.32		12.63	12.95	Fifth Frequency becomes a DC train with SEHSR			
28	Total Frequency related increases through 5th			29.26			29.99		30.74		31.51	32.30	33.11				
29	Frequency																
30	SEHSR increases			341			352		364		376	388	401				
31	Carolinian overflow to SEHSR	14.76	14.76	14.76	17.99	17.99	17.99	21.30	21.30	24.68	24.68	28.16	31.72	Carolinian overflow added to SEHSR or lost opportunity			
32	Total	143.43	154.87	484.27	144.16	155.89	496.40	156.94	508.83	158.02	521.58	534.64	548.03	inflation factors to get 5th year see below			
33		143.43	154.87	484.27	144.16	155.89	496.40	156.94	508.83	158.02	521.58	534.64	548.03				
34		29.43	40.87	29.43	30.16	41.89	30.16	42.94	30.92	44.02	31.69	32.49	33.30	Ridership forecasts are not dependent on seats			
35	Annual IPR seat miles offered (millions)	47	63	47	47	63	47	63	47	63	47	47	47	Maximum achievable load factor per Amtrak Jeff Mann - 86%			
36	Piedmont Load Factor	62%	65%	62%	64%	66%	64%	68%	65%	70%	67%	69%	70%				
37	Carolinian Load Factor	87%	87%	87%	87%	87%	87%	87%	87%	87%	87%	87%	87%	Maximum train length allows 8 coaches -87% LF. Overflow added to SEHSR when implemented			
38	SEHSR Load Factor	604	604	604	604	604	604	604	604	604	604	604	604				
39	Total	180	195	784	180	195	784	195	784	195	784	784	784				
40	Average number of daily roundtrip operations (typical weekday)	3	4	3	3	4	3	4	3	4	3	3	3				
41	Piedmont	1	1	1	1	1	1	1	1	1	1	1	1				
42	Carolinian			4			4		4		4	4	4				
43	SEHSR	4	5	8	4	5	8	5	8	5	8	8	8				
44	Total	4	5	8	4	5	8	5	8	5	8	8	8				
45	OTP	80.0%	80.0%	90.0%	80.0%	80.0%	90.0%	80.0%	90.0%	80.0%	90.0%	90.0%	90.0%	route miles freq miles			
46	Piedmont	80.0%	80.0%	90.0%	80.0%	80.0%	90.0%	80.0%	90.0%	80.0%	90.0%	90.0%	90.0%	174 348			
47	Carolinian	60.0%	60.0%	80.0%	60.0%	60.0%	80.0%	60.0%	80.0%	60.0%	80.0%	80.0%	80.0%	479 958			
48	SEHSR			90.0%			90.0%		90.0%		90.0%	90.0%	90.0%	448 896			
49	Average	70.4%	71.8%	88.3%	70.4%	71.8%	88.3%	71.8%	88.3%	71.8%	88.3%	88.3%	88.3%				

	A	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW
3																	
4					Tenth Full Year After					Tenth Full Year After			Tenth Full Year After				
5		2022 - 4th	2022 - 5th*	2022 - SEHSR*	2023 - 4th	2023 - 5th*	2023 - SEHSR*	2024 - 5th*	2024 - SEHSR*	2025 - 5th*	2025 - SEHSR*	2026 - SEHSR*	2027 - SEHSR*	* Fifth Frequency is in-state segment of a DC train and is added to SEHSR trips			
57	Average train operating delays: minutes of enroute delays per 10,000 miles																
58	Piedmont	1053	1053	921	1053	1053	921	1053	921	1053	921	921	921	All frequency results assume only earlier frequencies Provided by Amtrak			
59	Carolinian	1502	1502	1001	1502	1502	1001	1502	1001	1502	1001	1001	1001				
60	(changed to average) Total	1278	1278	961	1278	1278	961	1278	961	1278	961	961	961				
62	Top operating speed																
63	Piedmont	79	90*	90*	79	90*	90*	90*	90*	90*	90*	90*	90*	*assumes PTC operational 5th Freq and SEHSR only			
64	Carolinian	79	90*	90*	79	90*	90*	90*	90*	90*	90*	90*	90*	3rd, 4th and Carolinian performance values do not ass			
65	SEHSR		110*	110*		110*	110*	110*	110*	110*	110*	110*	110*				
67	Average scheduled operating speed (MPH) (between endpoints)																
68	Piedmont	55.2	58.0	67.4	55.2	58.0	67.4	58.0	67.4	58.0	67.4	67.4	67.4	Based on no change in speed for PTC in 3rd and 4th			
69	Carolinian	51.3	67.0	54.7	51.3	52.2	54.7	52.2	54.7	52.2	54.7	54.7	54.7	305.0 Carolinian miles north of Raleigh			
70				94.5			94.5		94.5		94.5	94.5	94.5	48.3 Carolinian mph north of Raleigh			
71		53.4	55.6	82.6	53.4	55.6	82.6	55.6	82.6	55.6	82.6	82.6	82.6				
72	Passenger Revenue millions\$																
73	Piedmont	26.982	26.982	26.982	27.574	27.574	27.574	28.180	28.180	28.801	28.801	29.436	30.087				
74	Carolinian	2.045	2.045	2.045	2.138	2.138	2.138	2.235	2.235	2.337	2.337	2.443	2.555				
75	SEHSR - Rate/mile	0.176	0.176	0.176	0.180	0.180	0.180	0.183	0.183	0.187	0.187	0.191	0.194				
76	Carolinian	24.937	24.937	24.937	25.436	25.436	25.436	25.945	25.945	26.464	26.464	26.993	27.533				
77	SEHSR - Rate/mile	0.219	0.219	0.219	0.223	0.223	0.223	0.228	0.228	0.232	0.232	0.237	0.242	Assumes Charlotte to DC trains at Carolinian rate			
78		1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000	1.02000				
79																	
80	Total Frequency related increases																
81	Frequency related 3rd	3.136	5.151	74.465	3.279	5.386	79.964	5.631	83.606	5.887	85.111	88.988	93.042				
82	Frequency related 4th	1.87		1.32	1.96		1.38		1.45	1.98	2.07	2.17	2.27				
83	Frequency related 5th		2.01			2.11		2.20		2.30		2.41	2.52	5th Frequency extends to DC with SEHSR and is counted as such			
84	Total Frequency related increases through 5th			5.15		5.39		5.63		5.89		6.03	6.19				
85	SEHSR			74.56		80.70		85.02		87.26		91.91	96.78				
86	Carolinian overflow to SEHSR	3.23	3.23	3.23	4.01	4.01	4.01	4.85	4.85	5.73	5.73	6.67	7.66	Carolinian overflow added to SEHSR or lost opportunity			
87																	
88	Total	30.118	32.133	104.677	30.853	32.959	111.551	33.811	116.632	34.688	119.642	125.092	130.790				
89		30.118	32.133	104.677	30.853	32.959	111.551	33.811	116.632	34.688	119.642	125.092	130.790				
90		5.18	7.20	74.50	5.42	7.52	79.99	7.87	83.64	8.22	85.15	89.02	93.08				
91																	
92	Rate per passenger mile	0.210	0.207	0.216	0.214	0.211	0.225	0.215	0.229	0.220	0.229	0.234	0.239				
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