

## Monthly Ridership and Service Level Report July, 2020 Covid-19 Response Service

"Safety, Courtesy, Reliability, and the Environment"

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#### **GLOSSARY**

- <u>Demand-Response Service (DR):</u> DR service operates in response to calls from passengers or their agents to the transit operator, who then dispatches a vehicle to pick up the passengers and transport them to their destinations. This service does not operate on a fixed route or schedule and satisfies a special need.
- <u>Driver Hours (DH):</u> DH are the hours a driver is on duty, including hours on stand-by, driving to and from the garage, and when there are no passengers on board. These are the hours paid to the drivers; a combination of revenue and non-revenue hours.
- <u>Emergency Service</u>: This is for changes in planned service level operated due to long term (more than 7 days) situations that have an impact on the amount of service provided due to the circumstances of the declared emergency.
- <u>Fiscal Year (FY):</u> The operational year starting from July 1<sup>st</sup> to June 30<sup>th</sup> and is year abbreviated with the second Calendar Year. (IE FY 19 is July 1, 2018 to June 30, 2019)
- <u>Fixed Route Service (FR):</u> FR operate along a specific route according to a fixed or preset schedule. Each trip serves the same stops, continuously, until service ends.
- <u>Focused Demand-Response Service:</u> This is a Demand-Response Service (DR) that does not operate throughout a workweek, or only operates during part of the year. These may service a specialized area to meet a special need.
- <u>Full Service</u>: This is our peak service typically operated during the fall and spring semesters.
   During Full Service, all routes are in operation with multiple buses operating on each route for peak frequency typically every 10-15 minutes. Tandems are also utilized in the first couple of weeks of Fall and Spring Service to increase capacity on high demand routes.
- <u>Intermediate Service:</u> This service operates the week before Virginia Tech classes resume for the fall semester and other select days throughout the year. It strongly resembles the Full Service with lower frequency on most routes.
- <u>No Service</u>: This service occurs on five different days: New Year's Day, Memorial Day, July 4<sup>th</sup>, Thanksgiving, and Christmas. No routes run on these days.
- Previous Year: These sections refer to data for the same month in the previous year.
- Reduced Service: This service is operated outside of fall and spring semesters during winter, spring, summer and fall breaks. Each route provides 30 minute or hourly service depending on the length of the route. Some routes do not operate; others follow an altered route.
- Revenue Hours (RH): RH are the hours of service where a bus is providing passenger service.
- Revenue Mile (RM): RM are the miles a bus travels on a route while providing passenger service.
- <u>Ridership:</u> Ridership is the number of people using a public transportation service in a given time period.
- <u>Tandems:</u> Additional vehicles that follow the scheduled route vehicles on high demand routes
  during the first few weeks of Full Service in the Fall and Spring. These catch the overloads and
  late arrivals of passengers new to the service at this time.
- <u>Trippers:</u> Additional stand-by service vehicles scheduled around special events such as Football Games to assist Routes in sudden passenger peak demands.
- <u>Year-to-Date (YTD):</u> YTD numbers are the sum of values for a period beginning July 1st of the current Fiscal Year until the end of a specified month.

#### **Route Abbreviations**

Abbreviation	Route Full Name
BLU	Explorer Blue
BTC	BT Commuter
CAS	Campus Shuttle
CBD	Carpenter Boulevard
CRC	Corporate Research Center
GLD	Explorer Gold
HDG	Harding Avenue
HWD	Hethwood
HWA	Hethwood A
HWB	Hethwood B
HXP	Hokie Express

Abbreviation	Route Full Name			
MSN	Main Street North			
MSS	Main Street South			
PHD	Patrick Henry Drive			
PRB	Progress B			
PRO	Progress Street			
SMA	South Main - Airport			
TOM	Toms Creek			
TTT	Two Town Trolley			
UCB	University City Boulevard			
UMS	University Mall Shuttle			

## Summary All Routes Month: July, 2020

	Current Month	Previous Year	Change by Month	Current YTD Total	Previous YTD Total	YTD Change
Total Passengers	18,308	102,793	-82%	18,308	102,793	-82%
Total Revenue Hours	4,400.44	6,069.04	-27%	4,400.44	6,069.04	-27%
Total Revenue Miles	48,143.00	60,201.40	-20%	48,143.00	60,201.40	-20%
Total Driver Hours	5,099.00	7,176.50	-29%	5,099.00	7,176.50	-29%
Passengers/RH	4.16	16.94	-75%	4.16	16.94	-75%
Passengers/RM	0.38	1.71	-78%	0.38	1.71	-78%
Passengers/DH	3.59	14.32	-75%	3.59	14.32	-75%
Full Service Weekdays	0	0	0	0	0	0
Full Service Weekends	0	0	0	0	0	0
Reduced Service Weekdays	23	22	1	23	22	1
Reduced Service Weekends	7	8	(1)	7	8	(1)
Intermediate Service	0	0	0	0	0	0
Emergency Service Weekdays	0	0	0	0	0	0
Emergency Service Weekends	0	0	0	0	0	0
No Service Days	1	1	0	1	1	0

<sup>\*</sup>Note: These numbers include Blacksburg and Christiansburg: Motor Bus, Demand Response and Shuttle Services.

## **Total Ridership per Route**

Blacksburg: Motor Bus Month: July, 2020

Route	Current Month	% of Ridership	Previous Year	Change by Month	Current YTD Total	% of YTD Ridership	Previous YTD Total	YTD Change
CAS	0	0.00%	0	0%	0	0.00%	0	0%
CBD	0	0.00%	0	0%	0	0.00%	0	0%
CRC	628	3.75%	3,063	-79%	628	3.75%	3,063	-79%
HDG	920	5.49%	3,441	-73%	920	5.49%	3,441	-73%
HWD	2,588	15.44%	2,034	27%	2,588	15.44%	2,034	27%
HWA	0	0.00%	5,084	-100%	0	0.00%	5,084	-100%
HWB	0	0.00%	7,155	-100%	0	0.00%	7,155	-100%
НХР	0	0.00%	0	0%	0	0.00%	0	0%
MSN	1,443	8.61%	5,780	-75%	1,443	8.61%	5,780	-75%
MSS	3,376	20.14%	10,419	-68%	3,376	20.14%	10,419	-68%
PHD	1,064	6.35%	4,678	-77%	1,064	6.35%	4,678	-77%
PRB	784	4.68%	0	0%	784	4.68%	0	0%
PRG	0	0.00%	4,196	-100%	0	0.00%	4,196	-100%
SMA	0	0.00%	0	0%	0	0.00%	0	0%
TOM	2,440	14.56%	12,701	-81%	2,440	14.56%	12,701	-81%
ттт	1,343	8.01%	3,412	-61%	1,343	8.01%	3,412	-61%
UCB	2,175	12.98%	5,569	-61%	2,175	12.98%	5,569	-61%
UMS	0	0.00%	0	0%	0	0.00%	0	0%
Totals	16,761	100.00%	67,532	-75%	16,761	100.00%	67,532	-75%

### **Total Ridership per Route**

Christiansburg: Motor Bus and Demand Response

Month: July, 2020

Route	Current Month	% of Ridership	Previous Year	Change by Month	Current YTD Total	% of YtD Ridership	Previous YTD	YTD Change
Commuter	0	0.00%	110	-100%	0	0.00%	110	-100%
Explorer Blue	0	0.00%	884	-100%	0	0.00%	884	-100%
Explorer Gold	0	0.00%	937	-100%	0	0.00%	937	-100%
GoAnywhere	1,037	100.00%	976	6%	1,037	100.00%	976	6%
Totals	1,037	100%	2,907	-64%	1,037	100%	2,907	-64%
Christiansburg Fixed Route Total	0	0.00%	1,931	-100.00%	0	0.00%	1,931	-100.00%
Christiansburg Demand Response Total	1,037	100.00%	976	6.25%	1,037	100.00%	976	6.25%
Totals	1,037	100%	2,907	-64%	1,037	100%	2,907	-64%

# Passengers per Revenue Hour per Route All Fixed Routes Month: July, 2020

Route	Current Month	Previous Year	Change by Month
CAS	0.00	0.00	N/A
CBD	0.00	0.00	N/A
CRC	2.34	11.93	-80%
HDG	2.48	9.13	-73%
HWD	7.06	19.50	-64%
HWA	0.00	19.77	-100%
HWB	0.00	27.56	-100%
НХР	0.00	0.00	N/A
MSN	4.38	17.20	-75%
MSS	8.23	25.84	-68%
PHD	3.94	18.10	-78%
PRB	2.91	0.00	N/A
PRG	0.00	16.25	-100%
SMA	0.00	0.00	N/A
TOM	6.12	30.74	-80%
TTT	4.38	11.24	-61%
UCB	5.44	21.54	-75%
UMS	0.00	0.00	N/A
ВТС	0.00	2.22	-100%
BLU	0.00	3.47	-100%
GLD	0.00	3.65	-100%

## Passengers per Revenue Hour per Day of Week All Fixed Routes Month: July, 2020

<u>Current Month</u>							
Week Day	Passengers	Revenue Hours	Pass/RH	Passengers	Revenue Hours	Pass/RH	Change Pass/RH
Sunday	942	148.20	6.36	1,752	116.87	14.99	-58%
Monday	2,577	539.26	4.78	14,725	853.60	17.25	-72%
Tuesday	2,565	539.26	4.76	14,801	853.85	17.33	-73%
Wednesday	3,143	674.70	4.66	15,240	853.60	17.85	-74%
Thursday	3,115	673.70	4.62	8,921	512.31	17.41	-73%
Friday	3,459	674.37	5.13	10,839	683.08	15.87	-68%
Saturday	958	141.15	6.79	3,175	173.20	18.33	-63%
Total	16,759	3,390.64	4.94	69,453	4,046.51	17.16	-71%

<sup>\*</sup> Note: these numbers DO NOT include Demand Response Service, Tandems, Trippers or Shuttles

## Passengers per Revenue Mile per Day of Week All Fixed Routes Month: July, 2020

<u>Current Month</u>							
Week Day	Passengers	Revenue Miles	Pass/RM	Passengers	Revenue Miles	Pass/RM	Change Pass/RM
Sunday	942	1,600	0.59	1,752	1,274	1.38	-57%
Monday	2,577	6,266	0.41	14,725	9,616	1.53	-73%
Tuesday	2,565	6,216	0.41	14,801	7,679	1.93	-79%
Wednesday	3,143	7,759	0.41	15,240	9,607	1.59	-74%
Thursday	3,115	7,683	0.41	8,921	5,748	1.55	-74%
Friday	3,459	7,705	0.45	10,839	7,679	1.41	-68%
Saturday	958	1,540	0.62	3,175	1,873	1.70	-63%
Total	16,759	38,769	0.43	69,453	43,476	1.60	-73%

<sup>\*</sup> Note: these numbers DO NOT include Demand Response Service, Tandems, Trippers or Shuttles

#### Passengers per Revenue Hour per Day of Week

Demand Response Service Month: July, 2020

	Access Curre	nt Month		Acc	ess Previous Y	<u>ear</u>	
Day of Week	Passengers	Revenue Hours	Pass/RH	Passengers	Revenue Hours	Pass/RH	Change Pass/RH
Sunday	0	0.00	0.00	12	13.55	0.89	-100%
Monday	73	49.23	1.48	262	170.20	1.54	-4%
Tuesday	96	93.85	1.02	285	169.06	1.69	-39%
Wednesday	109	98.95	1.10	269	176.27	1.53	-28%
Thursday	111	84.93	1.31	182	111.42	1.63	-20%
Friday	93	74.13	1.25	201	118.87	1.69	-26%
Saturday	28	18.63	1.50	61	41.38	1.47	2%
Total	510	419.73	1.22	1,272	800.75	1.59	-24%
<u>G</u> (	oAnywhere Cu	rrent Month		GoAnv	where Previoเ	ıs Year	
				<u> </u>		<u>.5 (Cai</u>	
Day of Week	Passengers	Revenue Hours	Pass/RH	Passengers	Revenue Hours	Pass/RH	Change Pass/RH
Day of Week Sunday	Passengers 0		Pass/RH 0.00		Revenue		
	J	Hours		Passengers	Revenue Hours	Pass/RH	Pass/RH
Sunday	0	Hours 0.00	0.00	Passengers 0	Revenue Hours 0.00	Pass/RH 0.00	Pass/RH 0%
Sunday Monday	0 132	0.00 86.68	0.00 1.52	Passengers  0 239	Revenue Hours 0.00 82.02	0.00 2.91	Pass/RH  0%  -48%
Sunday Monday Tuesday	0 132 177	0.00 86.68 100.39	0.00 1.52 1.76	Passengers  0 239 293	Revenue Hours 0.00 82.02 80.67	0.00 2.91 3.63	Pass/RH  0%  -48%  -51%
Sunday Monday Tuesday Wednesday	0 132 177 243	0.00 86.68 100.39 130.97	0.00 1.52 1.76 1.86	Passengers  0 239 293 162	Revenue Hours 0.00 82.02 80.67 79.80	0.00 2.91 3.63 2.03	Pass/RH  0%  -48%  -51%  -9%
Sunday Monday Tuesday Wednesday Thursday	0 132 177 243 235	0.00 86.68 100.39 130.97 127.50	0.00 1.52 1.76 1.86 1.84	Passengers  0 239 293 162 95	Revenue Hours 0.00 82.02 80.67 79.80 38.70	0.00 2.91 3.63 2.03 2.45	Pass/RH  0% -48% -51% -9% -25%

<sup>\*</sup>Please note: these numbers DO NOT include Fixed Route Service. It includes Access and GoAnywhere.

#### Passengers per Revenue Mile per Day of Week

Demand Response Service Month: July, 2020

	Access Curre	nt Month		<u>Acc</u>	ess Previous Y	<u>'ear</u>	
Day of Week	Passengers	Revenue Miles	Pass/RM	Passengers	Revenue Miles	Pass/RM	Change Pass/RM
Sunday	0	0	0.00	12	61	0.20	-100%
Monday	73	408	0.18	262	1,433	0.18	-2%
Tuesday	96	587	0.16	285	1,403	0.20	-19%
Wednesday	109	615	0.18	269	1,508	0.18	-1%
Thursday	111	657	0.17	182	970	0.19	-10%
Friday	93	568	0.16	201	1,120	0.18	-9%
Saturday	28	188	0.15	61	320	0.19	-22%
Total	510	3,023	0.17	1,272	6,815	0.19	-10%
<u>G</u> c	o Anywhere Cu	ırrent Month		Go Any	where Previo	us Year	
Day of Week	Passengers	rrent Month Revenue Miles	Pass/RM	Go Any Passengers	where Previo Revenue Miles	us Year Pass/RM	Change Pass/RM
		Revenue	Pass/RM 0.00		Revenue		
Day of Week	Passengers	Revenue Miles		Passengers	Revenue Miles	Pass/RM	Pass/RM
Day of Week Sunday	Passengers 0	Revenue Miles	0.00	Passengers 0	Revenue Miles 0	Pass/RM 0.00	Pass/RM 0%
Day of Week Sunday Monday	Passengers  0 132	Revenue Miles 0 881	0.00 0.15	Passengers 0 239	Revenue Miles 0 814	Pass/RM 0.00 0.29	Pass/RM 0% -49%
Day of Week Sunday Monday Tuesday	Passengers  0 132 177	Revenue Miles 0 881 1,069	0.00 0.15 0.17	Passengers  0 239 293	Revenue Miles 0 814 1,002	0.00 0.29 0.29	Pass/RM  0%  -49%  -43%
Day of Week  Sunday  Monday  Tuesday  Wednesday	Passengers  0 132 177 243	Revenue Miles  0 881 1,069 1,510	0.00 0.15 0.17 0.16	Passengers  0 239 293 162	Revenue Miles  0 814 1,002 952	0.00 0.29 0.29 0.17	Pass/RM  0%  -49%  -43%  -5%
Day of Week  Sunday  Monday  Tuesday  Wednesday  Thursday	Passengers  0 132 177 243 235	Revenue Miles 0 881 1,069 1,510 1,342	0.00 0.15 0.17 0.16 0.18	Passengers  0 239 293 162 95	Revenue Miles 0 814 1,002 952 517	0.00 0.29 0.29 0.17 0.18	Pass/RM  0% -49% -43% -5% -5%

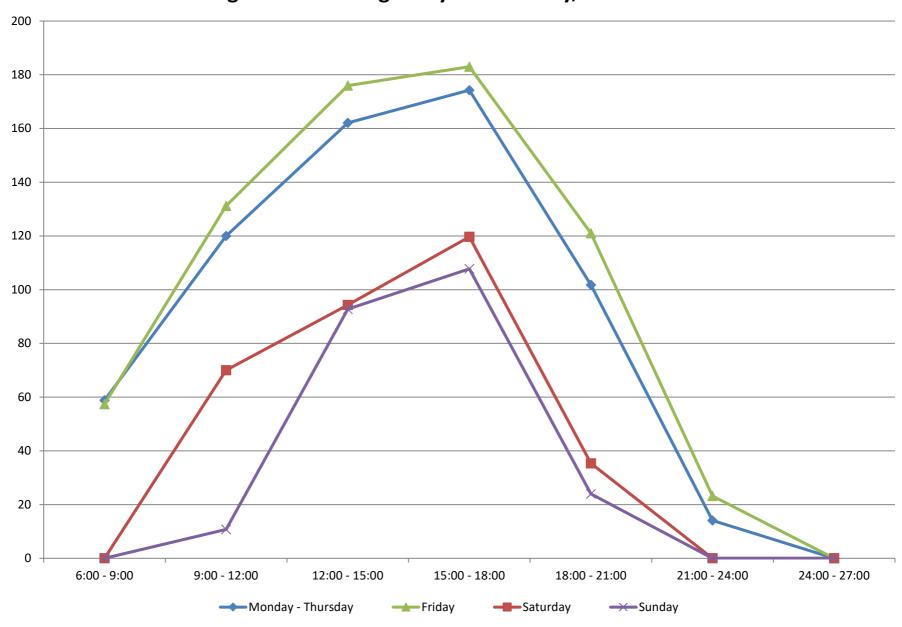
<sup>\*</sup>Please note: these numbers DO NOT include Fixed Route Service. It includes Access and GoAnywhere.

## Average Ridership and Revenue Hours by Time of Day All Fixed Routes

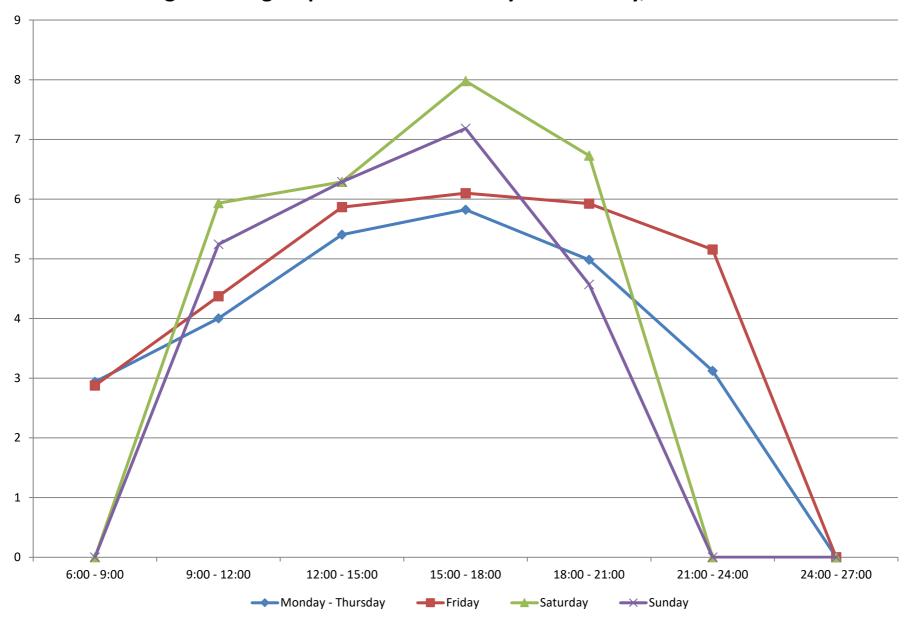
Month: July, 2020

Т	ime of Day	Avg Total Passengers	Average RH	Avg Pass. per RH
a)	6:00 - 9:00	58.83	20.02	2.94
Monday - Thursday	9:00 - 12:00	120.00	29.97	4.00
Гhu	12:00 - 15:00	162.11	30.00	5.40
	15:00 - 18:00	174.28	29.93	5.82
day	18:00 - 21:00	101.78	20.42	4.98
lon	21:00 - 24:00	14.06	4.50	3.12
2	24:00 - 27:00	0.00	0.00	0.00
	6:00 - 9:00	57.40	19.95	2.88
	9:00 - 12:00	131.20	30.00	4.37
<b>&gt;</b>	12:00 - 15:00	176.00	30.00	5.87
Friday	15:00 - 18:00	183.00	30.00	6.10
-	18:00 - 21:00	121.00	20.42	5.93
	21:00 - 24:00	23.20	4.50	5.16
	24:00 - 27:00	0.00	0.00	0.00
	6:00 - 9:00	0.00	0.00	0.00
	9:00 - 12:00	70.00	11.80	5.93
day	12:00 - 15:00	94.33	15.00	6.29
Saturday	15:00 - 18:00	119.67	15.00	7.98
Sat	18:00 - 21:00	35.33	5.25	6.73
	21:00 - 24:00	0.00	0.00	0.00
	24:00 - 27:00	0.00	0.00	0.00
	6:00 - 9:00	0.00	0.00	0.00
	9:00 - 12:00	10.75	2.05	5.24
a \	12:00 - 15:00	92.75	14.75	6.29
Sunday	15:00 - 18:00	107.75	15.00	7.18
Su	18:00 - 21:00	24.00	5.25	4.57
	21:00 - 24:00	0.00	0.00	0.00
	24:00 - 27:00	0.00	0.00	0.00

## **Average Total Passengers by Time of Day, All Fixed Routes**



## Average Passengers per Revenue Hour by Time of Day, All Fixed Routes



Blacksburg Transit Fare Totals

Does not include Demand Response. Does include Athletics/Specials

	Total Students		Faculty/Staff		Total Virginia Tech		Total Non-VT		
	Ridership	#	%	#	%	#	%	#	%
July-20	16,761	16,396	97.82%	6	0.04%	16,402	97.86%	359	2.14%
August-20									
September-20									
Total for 1st Quarter:	16,761	16,396	97.82%	6	0.04%	16,402	97.86%	359	2.14%
October-20									
November-20									
December-20									
Total for 2nd Quarter:	0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
January-21									
February-21									
March-21									
Total for 3rd Quarter:	0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
April-21									
May-21									
June-21									
Total for 4th Quarter:	0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Total for Year:	16,761	16,396	97.82%	6	0.04%	16,402	97.86%	359	2.14%

## Addendum: Covid Impacts on Service and Ridership

Starting March 15, 2020 the Covid-19 Epidemic has had a very strong impact on BT customers, staff and the service itself. For weeks, people were restricted from making any unnecessary trips. University went to online classes and sent many students home. Some business closed for the second half of our normal Spring Service. Continuing restrictions and impacts will be going on through the Fall Semester and possibly into the 2021 calendar year.

After discussions with NTD, we were informed to report what had initially been scheduled as what we had planned regardless of the changes we made for the rest of the fiscal year (July-June). In August, NTD updated that, telling all systems to report what they ran as their expected service. BT ran considerable different service than what was initially planned and have reported here as Emergency Service to distinguish it from the planned service that was in place. So from March 15<sup>th</sup> – June 30<sup>th</sup> 2020 in these reports you find the service levels reported as Emergency Service. As with what was initially stated by NTD to consider the service not normal. Starting with July 1<sup>st</sup> 2020 onward will be reported as planned service as our planning year starts in July and with planned adjustments made for the Spring Semester halfway through.

Spring FY20 Emergency Service Levels Guide							
Dates	Planned Service	<b>Approximate Service</b>	Differences				
3/15-3/21/20	Full Service	Reduced Service	Ran Reduced instead				
3/22-4/5/20	Full Service	Alt Full Service	Reduced Frequencies				
4/6-4/9/20	Full Service	Alt Full Minus C'Burg	C'burg FR canceled (ongoing)				
4/10-4/18/20	Full Service	Alt Intermediate	Reduced routes, freq, hours				
4/19-5/9/20	Full Service	Alt Intermediate 2	Additional routes cut				
5/10-5/13/20	Full Service	Alt Reduced	Ran Alternate Reduced instead				
5/14-6/30/20	Reduced	Alt Reduced	Reduced routes, hours				

With the start of the new planning year the new service level becomes the planned service level. This will however still have significant difference between the same service levels compared from one year to the next. At this time the following table is official. Also note there will be lower passenger load limitations allowed on vehicles at least for the Fall FY21 planned services.

Fall FY21 Planned Service Levels Comparatives (Tentative)							
FY21 Dates Planned Service		FY20 Service	Differences				
7/1-8/16/20	Reduced	Reduced	Less routes, hours, no Shuttles				
8/17-8/21/20	Intermediate	Reduced Plus	More routes, hours, freq				
8/22-11/20/20	Full	Full	More routes, freq				
11/21-11/28/20	Reduced, Holiday	Reduced	Less routes, hours on Holiday				
11/29-12/17/20	Reduced	Full	Reduced instead of Full				
12/18-12/31/20	Reduced, Holiday	Reduced	Less routes, hours on Holiday				

These differences will need to be kept in mind when comparing an affected service period with a non-affected period between two different service years.