

Monthly Ridership and Service Level Report August, 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 1st to June 30th 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 4th, Thanksgiving, and Christmas. No routes run on these days.
- <u>Previous Year</u>: These sections refer to data for the same month in the previous year.
- <u>Reduced Service</u>: 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.
- <u>Revenue Hours (RH)</u>: RH are the hours of service where a bus is providing passenger service.
- <u>Revenue Mile (RM)</u>: 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
ТОМ	Toms Creek
ТТТ	Two Town Trolley
UCB	University City Boulevard
UMS	University Mall Shuttle

Summary All Routes Month: August, 2020										
	Current Month	Previous Year	Change by Month	Current YTD Total	Previous YTD Total	YTD Change				
Total Passengers	53,046	241,017	-78%	71,354	343,810	-79%				
Total Revenue Hours	7,252.35	7,265.21	0%	11,652.79	13,334.25	-13%				
Total Revenue Miles	74,645.00	77,378.40	-4%	122,788.00	137,579.80	-11%				
Total Driver Hours	8,322.25	8,191.50	2%	13,421.25	15,368.00	-13%				
Passengers/RH	7.31	33.17	-78%	6.12	25.78	-76%				
Passengers/RM	0.71	3.11	-77%	0.58	2.50	-77%				
Passengers/DH	6.37	29.42	-78%	5.32	22.37	-76%				
Full Service Weekdays	6	5	1	6	5	1				
Full Service Weekends	4	3	1	4	3	1				
Reduced Service Weekdays	10	17	(7)	33	39	(6)				
Reduced Service Weekends	6	6	0	13	14	(1)				
Intermediate Service	5	0	5	5	0	5				
Emergency Service Weekdays	0	0	0	0	0	0				
Emergency Service Weekends	0	0	0	0	0	0				
No Service Days	0	0	0	1	1	0				

*Note: These numbers include Blacksburg and Christiansburg: Motor Bus, Demand Response and Shuttle Services.

	Total Ridership per Route Blacksburg: Motor Bus Month: August, 2020											
Route	Current Month	% of Ridership	Previous Year	Change by Month	Current YTD Total	% of YTD Ridership	Previous YTD Total	YTD Change				
CAS	392	0.77%	2,055	-81%	392	0.58%	2,055	-81%				
CBD	481	0.94%	3,687	-87%	481	0.71%	3,687	-87%				
CRC	1,643	3.21%	6,459	-75%	2,271	3.34%	9,522	-76%				
HDG	2,726	5.32%	10,957	-75%	3,646	5.36%	14,398	-75%				
HWD	2,558	4.99%	5,422	-53%	5,146	7.57%	7,456	-31%				
HWA	2,787	5.44%	21,281	-87%	2,787	4.10%	26,365	-89%				
HWB	3,251	6.35%	20,570	-84%	3,251	4.78%	27,725	-88%				
НХР	1,601	3.13%	9,068	-82%	1,601	2.35%	9,068	-82%				
MSA	3,681	7.19%	0	0%	3,681	5.41%	0	0%				
MSN	6,018	11.75%	16,489	-64%	7,461	10.97%	22,269	-66%				
MSS	3,965	7.74%	22,094	-82%	7,341	10.80%	32,513	-77%				
PHD	1,931	3.77%	17,525	-89%	2,995	4.41%	22,203	-87%				
PRB	2,099	4.10%	7,271	-71%	2,883	4.24%	7,271	-60%				
PRG	727	1.42%	17,181	-96%	727	1.07%	21,377	-97%				
том	7,373	14.39%	36,790	-80%	9,813	14.43%	49,491	-80%				
ттт	3,657	7.14%	6,972	-48%	5,000	7.35%	10,384	-52%				
UCB	4,906	9.58%	18,479	-73%	7,081	10.41%	24,048	-71%				
UMS	1,433	2.80%	10,282	-86%	1,433	2.11%	10,282	-86%				
Totals	51,229	100.00%	232,582	-78%	67,990	100.00%	300,114	-77%				

	Total Ridership per Route Christiansburg: Motor Bus and Demand Response Month: August, 2020											
Route	Current Month	% of Ridership	Previous Year	Change by Month	Current YTD Total	% of YtD Ridership	Previous YTD	YTD Change				
Commuter	1	0.09%	245	-100%	1	0.05%	355	-100%				
Explorer Blue	0	0.00%	880	-100%	0	0.00%	1,764	-100%				
Explorer Gold	0	0.00%	982	-100%	0	0.00%	1,919	-100%				
GoAnywhere	1,141	99.91%	815	40%	2,178	99.95%	1,791	22%				
Totals	1,142	100%	2,922	-61%	2,179	100%	5,829	-63%				
Christiansburg Fixed Route Total	1	0.09%	2,107	-99.95%	1	0.05%	4,038	-99.98%				
Christiansburg Demand Response Total	1,141	99.91%	815	40.00%	2,178	99.95%	1,791	21.61%				
Totals	1,142	100%	2,922	-61%	2,179	100%	5,829	-63%				

Ра	Passengers per Revenue Hour per Route All Fixed Routes Month: August, 2020										
Route	Current Month	Previous Year	Change by Month								
CAS	2.07	19.00	-89%								
CBD	3.02	31.59	-90%								
CRC	3.29	16.53	-80%								
HDG	6.00	23.87	-75%								
HWD	11.77	45.47	-74%								
HWA	9.63	56.61	-83%								
HWB	11.23	57.59	-80%								
НХР	4.95	35.91	-86%								
MSA	28.48	0.00	N/A								
MSN	15.11	40.35	-63%								
MSS	7.88	44.16	-82%								
PHD	4.75	53.19	-91%								
PRB	6.70	41.98	-84%								
PRG	2.79	48.32	-94%								
том	12.67	65.95	-81%								
TTT	10.47	21.75	-52%								
UCB	9.87	52.04	-81%								
UMS	6.28	81.15	-92%								
BTC	0.07	5.01	-99%								
BLU	0.00	3.45	-100%								
GLD	0.00	3.83	-100%								

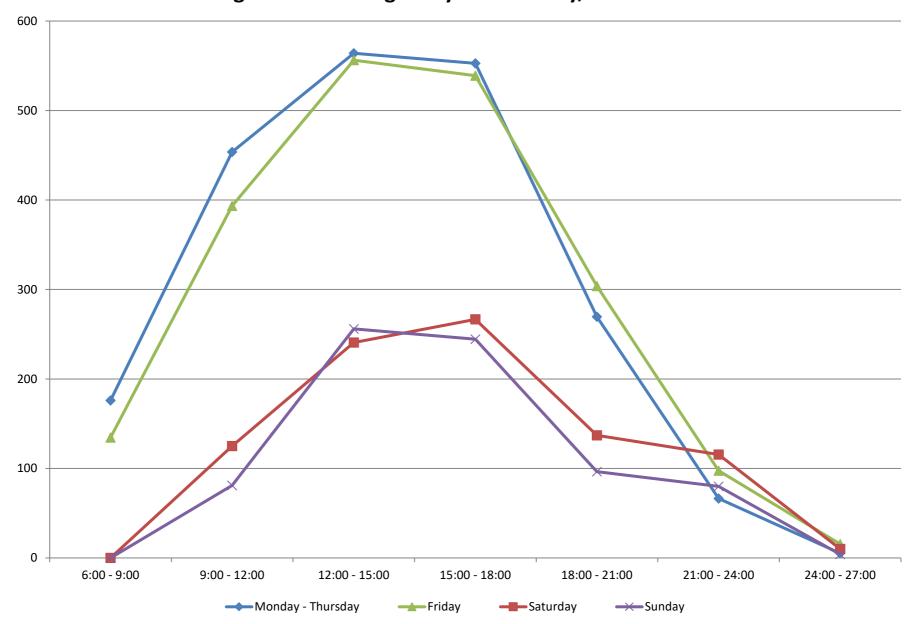
Passengers per Revenue Hour per Day of Week All Fixed Routes Month: August, 2020										
Current Month Previous Year										
Week Day	Passengers	Revenue Hours	Pass/RH	Passengers	Revenue Hours	Pass/RH	Change Pass/RH			
Sunday	3,557	267.75	13.28	5,104	142.95	35.70	-63%			
Monday	12,088	1,492.66	8.10	41,400	1,014.12	40.82	-80%			
Tuesday	7,602	1,011.95	7.51	42,163	1,014.62	41.56	-82%			
Wednesday	8,060	1,012.45	7.96	43,044	1,011.96	42.54	-81%			
Thursday	7,696	1,011.95	7.61	47,544	1,184.22	40.15	-81%			
Friday	8,129	984.20	8.26	43,018	1,188.64	36.19	-77%			
Saturday	4,098	322.59	12.70	12,368	310.66	39.81	-68%			
Total	51,230	6,103.55	8.39	234,641	5,867.17	39.99	-79%			
* Not	e: these numb	ers DO NOT ir	iclude Demand	d Response Serv	ice, Tandems,	Trippers or Sh	nuttles			

Passengers per Revenue Mile per Day of Week All Fixed Routes Month: August, 2020										
Current Month Previous Year										
Week Day	Passengers	Revenue Miles	Pass/RM	Passengers	Revenue Miles	Pass/RM	Change Pass/RM			
Sunday	3,557	2,858	1.24	5,104	1,554	3.28	-62%			
Monday	12,088	15,560	0.78	41,400	10,945	3.78	-79%			
Tuesday	7,602	10,701	0.71	42,163	11,011	3.83	-81%			
Wednesday	8,060	10,686	0.75	43,044	11,030	3.90	-81%			
Thursday	7,696	10,671	0.72	47,544	12,980	3.66	-80%			
Friday	8,129	10,303	0.79	43,018	13,195	3.26	-76%			
Saturday	4,098	3,514	1.17	12,368	3,510	3.52	-67%			
Total	51,230	64,293	0.80	234,641	64,225	3.65	-78%			
* Not	e: these numb	ers DO NOT ir	nclude Demand	Response Serv	ice, Tandems,	, Trippers or Sh	uttles			

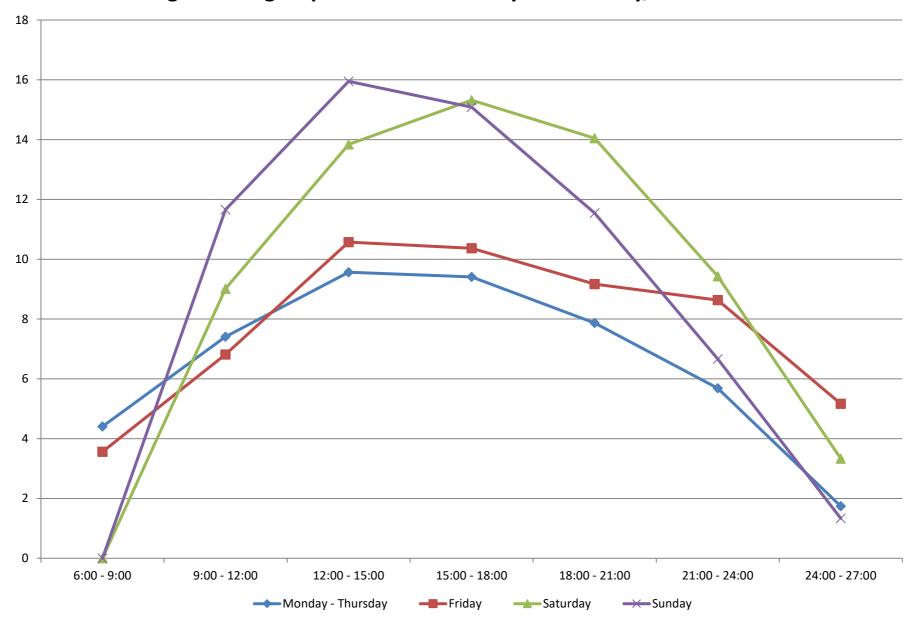
Passengers per Revenue Hour per Day of Week Demand Response Service Month: August, 2020										
	Access Curre	nt Month		Acc	ess Previous Y	<u>ear</u>				
Day of Week	Passengers	Revenue Hours	Pass/RH	Passengers	Revenue Hours	Pass/RH	Change Pass/RH			
Sunday	1	0.18	5.45	9	5.65	1.59	242%			
Monday	123	96.15	1.28	217	130.82	1.66	-23%			
Tuesday	131	126.13	1.04	233	139.37	1.67	-38%			
Wednesday	140	129.27	1.08	271	151.83	1.78	-39%			
Thursday	113	96.82	1.17	323	183.26	1.76	-34%			
Friday	132	94.85	1.39	264	163.55	1.61	-14%			
Saturday	35	24.12	1.45	91	58.97	1.54	-6%			
Total	675	567.52	1.19	1,408	833.44	1.69	-30%			
<u>G</u>	oAnywhere Cu	irrent Month		<u>GoAny</u>	where Previou	<u>ıs Year</u>				
Day of Week	Passengers	Revenue Hours	Pass/RH	Passengers	Revenue Hours	Pass/RH	Change Pass/RH			
Sunday	0	0.00	0.00	0	0.00	0.00	0%			
Monday	201	115.23	1.74	150	66.85	2.24	-22%			
Tuesday	223	109.45	2.04	151	65.32	2.31	-12%			
Wednesday	201	107.38	1.87	114	66.03	1.73	8%			
Thursday	224	108.72	2.06	181	74.81	2.42	-15%			
Friday	188	104.35	1.80	167	84.45	1.98	-9%			
Saturday	104	36.15	2.88	52	32.68	1.59	81%			
Total	1,141	581.28	1.96	815	390.14	2.09	-6%			

Passengers per Revenue Mile per Day of Week Demand Response Service Month: August, 2020										
Access Current Month Access Previous Year										
Day of Week	Passengers	Revenue Miles	Pass/RM	Passengers	Revenue Miles	Pass/RM	Change Pass/RM			
Sunday	1	2	0.50	9	47	0.19	161%			
Monday	123	771	0.16	217	1,150	0.19	-15%			
Tuesday	131	707	0.19	233	1,259	0.19	0%			
Wednesday	140	802	0.17	271	1,398	0.19	-10%			
Thursday	113	669	0.17	323	1,687	0.19	-12%			
Friday	132	679	0.19	264	1,427	0.19	5%			
Saturday	35	176	0.20	91	516	0.18	13%			
Total	675	3,806	0.18	1,408	7,484	0.19	-6%			
<u>Gc</u>	o Anywhere Cu	<u>irrent Month</u>		<u>Go Any</u>	where Previo	us Year				
Day of Week	Passengers	Revenue Miles	Pass/RM	Passengers	Revenue Miles	Pass/RM	Change Pass/RM			
Sunday	0	0	0.00	0	0	0.00	0%			
Monday	201	1,224	0.16	150	729	0.21	-20%			
Tuesday	223	1,217	0.18	151	755	0.20	-8%			
Wednesday	201	1,261	0.16	114	675	0.17	-6%			
Thursday	224	1,289	0.17	181	966	0.19	-7%			
Friday	188	1,204	0.16	167	957	0.17	-11%			
Saturday	104	351	0.30	52	356	0.15	103%			
Total	1,141	6,546	0.17	815	4,438	0.18	-5%			

	Average Ridership and Revenue Hours by Time of Day All Fixed Routes Month: August, 2020										
	Time of Day Avg Total Passengers Average RH Avg Pass. per RH										
day	6:00 - 9:00	176.00	39.93	4.41							
Monday - Thursday	9:00 - 12:00 12:00 - 15:00	453.59 564.00	61.24 58.96	7.41 9.57							
- Th	12:00 - 13:00 15:00 - 18:00	552.76	58.76	9.37							
ay .	18:00 - 21:00	269.47	34.24	7.87							
ond	21:00 - 24:00	66.47	11.69	5.68							
Σ	24:00 - 27:00	5.22	3.00	1.74							
	6:00 - 9:00	134.50	37.77	3.56							
	9:00 - 12:00	393.50	57.75	6.81							
۲	12:00 - 15:00	556.25	52.61	10.57							
Friday	15:00 - 18:00	539.00	52.00	10.37							
ш.	18:00 - 21:00	303.75	33.13	9.17							
	21:00 - 24:00	97.50	11.30	8.63							
	24:00 - 27:00	15.50	3.00	5.17							
	6:00 - 9:00	0.00	0.00	0.00							
	9:00 - 12:00	125.00	13.87	9.01							
Irday	12:00 - 15:00	240.80	17.40	13.84							
tur	15:00 - 18:00	266.60	17.40	15.32							
Satu	18:00 - 21:00	137.00	9.75	14.05							
	21:00 - 24:00	115.50	12.25	9.43							
	24:00 - 27:00	10.00	3.00	3.33							
	6:00 - 9:00	0.00	0.00	0.00							
	9:00 - 12:00	81.00	6.95	11.65							
lay	12:00 - 15:00	256.00	16.05	15.95							
Sunday	15:00 - 18:00	244.40	16.20	15.09							
S	18:00 - 21:00	96.40	8.35	11.54							
	21:00 - 24:00	80.00	12.00	6.67							
	24:00 - 27:00	4.00	3.00	1.33							



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	51,230	50,854	99.27%	38	0.07%	50,892	99.34%	338	0.66%
September-20									
Total for 1st Quarter:	67,991	67,250	98.91%	44	0.06%	67,294	98.97%	697	1.03%
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:	67,991	67,250	98.91%	44	0.06%	67,294	98.97%	697	1.03%

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 15th – June 30th 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 1st 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	Approximate Service	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 nonaffected period between two different service years.