

Monthly Ridership and Service Level Report May, 2020 State of Emergency Service

"Safety, Courtesy, Reliability, and the Environment"

TABLE OF CONTENTS

Glossary & Route Abbreviations	3-4
Summary - All Routes	5
Total Ridership per Route - Blacksburg, Fixed Routes	6
Total Ridership per Route - Christiansburg Routes	7
Passengers per Revenue Hour per Route - All Fixed Routes	8
Passengers per Revenue Hour per Day of Week - All Fixed Routes	9
Passengers per Revenue Mile per Day of Week - All Fixed Routes	10
Passengers per Revenue Hour per Day of Week - Demand Response Service	11
Passengers per Revenue Mile per Day of Week - Demand Response Service	12
Passengers per Revenue Hour per Day of Week - Focused Demand Response Service	13
Passengers per Revenue Hour per Day of Week - Focused Demand Response Service	14
Average Ridership and Revenue Hours by Time of Day - All Fixed Routes	15
Graph: Average Total Passengers by Time of Day - All Fixed Routes	16
Graph: Average Passengers per Revenue Hour by Time of Day - All Fixed Routes	17
Blacksburg Fare Type Totals – Blacksburg, Fixed Routes and Athletics/Specials	18

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
НХР	Hokie Express

Abbreviation	Route Full Name
MSN	Main Street North
MSS	Main Street South
PHD	Patrick Henry Drive
PRB	Progress B
PRO	Progress Street
TE	The Explorer
ТОМ	Toms Creek
TTT	Two Town Trolley
UCB	University City Boulevard
UMS	University Mall Shuttle

		All R	mary outes ∕Iay, 2020			
	Current Month	Previous Year	Change by Month	Current YTD Total	Previous YTD Total	YTD Change
Total Passengers	11,499	271,456	-96%	3,542,032	4,586,456	-23%
Total Revenue Hours	4,252.75	9,051.51	-53%	97,811.36	108,633.02	-10%
Total Revenue Miles	44,393.00	93,521.90	-53%	1,011,445.20	1,094,269.40	-8%
Total Driver Hours	5,002.25	10,394.25	-52%	110,146.00	123,104.75	-11%
Passengers/RH	2.70	29.99	-91%	36.21	42.22	-14%
Passengers/RM	0.26	2.90	-91%	3.50	4.19	-16%
Passengers/DH	2.30	26.12	-91%	32.16	37.26	-14%
Full Service Weekdays	0	11	(11)	111	154	(43)
Full Service Weekends	0	3	(3)	44	59	(15)
Reduced Service Weekdays	0	11	(11)	67	73	(6)
Reduced Service Weekends	0	4	(4)	29	34	(5)
Intermediate Service	0	1	(1)	3	9	(6)
Emergency Service Weekdays	20	0	20	54	0	54
Emergency Service Weekends	10	0	10	23	0	23
No Service Days	1	1	0	5	6	(1)

*Note: These numbers include both Blacksburg and Christiansburg Fixed and Demand Response Services.

	Total Ridership per Route Blacksburg, Fixed Routes Month: May, 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%	1,498	-100%	68,430	2.00%	25,623	167%					
CBD	0	0.00%	3,062	-100%	56,763	1.66%	66,204	-14%					
CRC	196	1.96%	8,249	-98%	106,282	3.11%	133,802	-21%					
HDG	436	4.37%	10,689	-96%	166,317	4.87%	185,763	-10%					
HWD	1,035	10.37%	4,987	-79%	51,501	1.51%	56,056	-8%					
HWA	92	0.92%	22,372	-100%	324,227	9.49%	393,931	-18%					
HWB	113	1.13%	23,444	-100%	283,850	8.30%	372,829	-24%					
НХР	0	0.00%	16,090	-100%	155,696	4.55%	301,156	-48%					
MSN	792	7.94%	21,071	-96%	221,423	6.48%	332,679	-33%					
MSS	2,282	22.86%	20,610	-89%	249,108	7.29%	292,793	-15%					
PHD	735	7.36%	21,289	-97%	264,705	7.74%	378,014	-30%					
PRB	506	5.07%	2,687	-81%	129,259	3.78%	40,349	220%					
PRG	58	0.58%	26,678	-100%	281,442	8.23%	443,864	-37%					
том	1,481	14.84%	41,651	-96%	535,254	15.66%	685,898	-22%					
ттт	971	9.73%	5,116	-81%	57,658	1.69%	64,814	-11%					
UCB	1,284	12.86%	25,825	-95%	266,782	7.80%	442,415	-40%					
UMS	0	0.00%	10,504	-100%	199,513	5.84%	250,130	-20%					
Totals	9,981	100.00%	265,822	-96%	3,418,210	100.00%	4,466,320	-23%					

		Т	Christians	hip per Rou burg Routes May, 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%	100	-100%	1,622	5.81%	1,700	-5%
Explorer Blue	0	0.00%	776	-100%	7,671	27.46%	3,274	134%
Explorer Gold	0	0.00%	921	-100%	9,490	33.97%	3,764	152%
The Explorer	0	0.00%	0	0%	0	0.00%	7,505	-100%
GoAnywhere	1,003	100.00%	932	8%	9,152	32.76%	10,162	-10%
Combined Explorers	0	0.00%	1,697	-100%	17,161	61.43%	14,543	18%
Totals	1,003	100%	2,729	-63%	27,935	100%	26,405	6%
Christiansburg Fixed Route Total	0	0.00%	1,797	-100.00%	18,783	67.24%	16,243	15.64%
Christiansburg Demand Response Total	1,003	100.00%	932	7.62%	9,152	32.76%	10,162	-9.94%
Totals	1,003	100%	2,729	-63%	27,935	100%	26,405	6%

Ра	A	e r Revenue Ho Il Fixed Routes onth: May, 202	S
Route	Current Month	Previous Year	Change by Month
CAS	0.00	11.76	-100%
CBD	0.00	23.69	-100%
CRC	0.79	14.64	-95%
HDG	1.43	19.68	-93%
HWD	3.33	43.10	-92%
HWA	1.31	42.48	-97%
HWB	1.60	44.37	-96%
НХР	0.00	30.98	-100%
MSN	2.59	44.05	-94%
MSS	6.02	34.51	-83%
PHD	2.91	43.13	-93%
PRB	2.15	20.92	-90%
PRG	0.82	50.66	-98%
том	3.81	59.11	-94%
TTT	3.16	15.43	-79%
UCB	3.30	43.23	-92%
UMS	0.00	43.40	-100%
BTC	0.00	2.01	-100%
BLU	0.00	3.05	-100%
GLD	0.00	3.59	-100%
TE	0.00	0.00	0%

		Passenge	All Fixe	i e Hour per Day d Routes May, 2020	of Week		
	<u>(</u>	Current Month	<u>1</u>		Previous Year		
Week Day	Passengers	Revenue Hours	Pass/RH	Passengers	Revenue Hours	Pass/RH	Change Pass/RH
Sunday	801	195.25	4.10	6,614	193.20	34.23	-88%
Monday	1,247	433.85	2.87	42,763	1,122.85	38.08	-92%
Tuesday	1,421	568.82	2.50	43,614	1,293.79	33.71	-93%
Wednesday	1,421	568.82	2.50	66,952	1,769.79	37.83	-93%
Thursday	1,717	569.12	3.02	48,661	1,476.06	32.97	-91%
Friday	2,283	736.73	3.10	46,356	1,493.81	31.03	-90%
Saturday	1,091	259.75	4.20	12,659	364.76	34.71	-88%
Total	9,981	3,332.34	3.00	267,619	7,714.26	34.69	-91%

		Passeng	All Fixe	ie Mile per Day d Routes May, 2020	of Week		
	<u>(</u>	Current Month	<u>1</u>		Previous Year	:	
Week Day	Passengers	Revenue Miles	Pass/RM	Passengers	Revenue Miles	Pass/RM	Change Pass/RM
Sunday	801	2,033	0.39	6,614	2,041	3.24	-88%
Monday	1,247	4,715	0.26	42,763	11,560	3.70	-93%
Tuesday	1,421	6,299	0.23	43,614	13,508	3.23	-93%
Wednesday	1,421	6,304	0.23	66,952	18,297	3.66	-94%
Thursday	1,717	6,326	0.27	48,661	15,552	3.13	-91%
Friday	2,283	8,039	0.28	46,356	15,817	2.93	-90%
Saturday	1,091	2,703	0.40	12,659	3,950	3.20	-87%
Total	9,981	36,419	0.27	267,619	80,725	3.32	-92%
Total	9,981	36,419	0.27	,	80,725	3.32	-92%

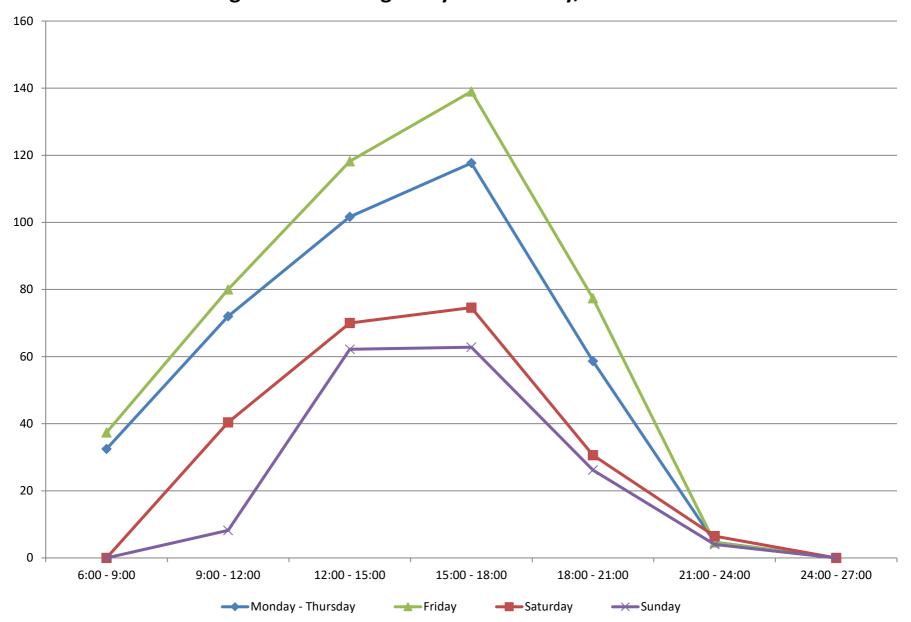
		Passenge	Demand Re	ue Hour per Day sponse Service May, 2020	y of Week		
	Access Curre	nt Month		<u>Acc</u>	ess Previous Y	<u>ear</u>	
Day of Week	Passengers	Revenue Hours	Pass/RH	Passengers	Revenue Hours	Pass/RH	Change Pass/RH
Sunday	4	2.58	1.55	11	10.60	1.04	49%
Monday	63	51.97	1.21	171	109.22	1.57	-23%
Tuesday	105	89.67	1.17	289	153.73	1.88	-38%
Wednesday	86	86.72	0.99	273	182.02	1.50	-34%
Thursday	64	52.28	1.22	299	177.97	1.68	-27%
Friday	132	100.33	1.32	266	154.08	1.73	-24%
Saturday	0	0.00	0.00	55	39.12	1.41	-100%
Total	454	383.55	1.18	1,364	826.73	1.65	-28%
G	oAnywhere Cu	rrent 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	122	68.38	1.78	127	54.23	2.34	-24%
Tuesday	197	91.37	2.16	163	70.07	2.33	-7%
Wednesday	194	93.38	2.08	182	87.35	2.08	0%
Thursday	170	91.67	1.85	213	87.88	2.42	-23%
Friday	252	128.15	1.97	189	85.50	2.21	-11%
Saturday	68	33.73	2.02	58	28.20	2.06	-2%
		506.68	1.98	932	413.23	2.26	-12%

		Passeng	Demand Res	u e Mile per Day sponse Service May, 2020	of Week		
	Access Curre	<u>nt Month</u>		<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	4	10	0.40	11	53	0.21	93%
Monday	63	429	0.15	171	930	0.18	-20%
Tuesday	105	571	0.18	289	1,333	0.22	-15%
Wednesday	86	553	0.16	273	1,505	0.18	-14%
Thursday	64	329	0.19	299	1,563	0.19	2%
Friday	132	731	0.18	266	1,415	0.19	-4%
Saturday	0	0	0.00	55	307	0.18	-100%
Total	454	2,623	0.17	1,364	7,106	0.19	-10%
<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	122	581	0.21	127	663	0.19	10%
Tuesday	197	989	0.20	163	850	0.19	4%
Wednesday	194	1,111	0.17	182	1,053	0.17	1%
Thursday	170	891	0.19	213	1,079	0.20	-3%
Friday	252	1,304	0.19	189	985	0.19	1%
Saturday	68	319	0.21	58	307	0.19	13%
Total	1,003	5,195	0.19	932	4,937	0.19	2%

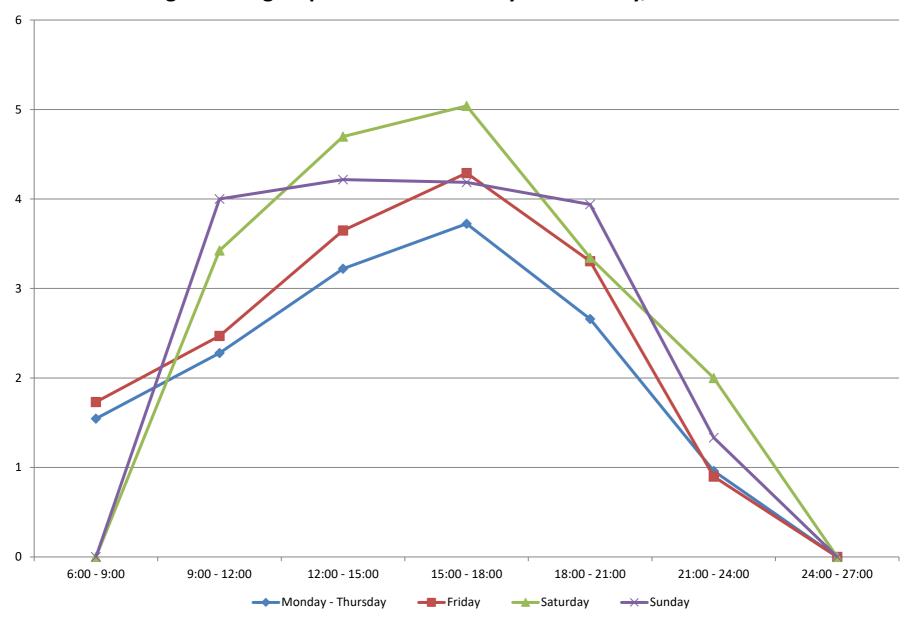
			cused Deman	u e Hour per Day d Response Serv May, 2020			
<u>w</u>	arm Hearth Cu	irrent Month		<u>Warm</u>	Hearth Previo	us Year	
Day of Week	Passengers	Revenue Hours	Pass/RH	Passengers	Revenue Hours	Pass/RH	Change Pass/RH
Sunday	0	0.00	0.00	0	0.00	0.00	0%
Monday	0	0.00	0.00	0	0.00	0.00	0%
Tuesday	18	9.90	1.82	41	16.66	2.46	-26%
Wednesday	25	12.20	2.05	76	25.20	3.02	-32%
Thursday	18	8.08	2.23	65	25.03	2.60	-14%
Friday	0	0.00	0.00	0	0.00	0.00	0%
Saturday	0	0.00	0.00	0	0.00	0.00	0%
Total	61	30.18	2.02	182	66.89	2.72	-26%
<u>C</u>	RC Shuttle Cur	rrent Month		<u>CRC S</u>	huttle Previou	<u>s 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	0	0.00	0.00	0	0.00	0.00	0%
Tuesday	0	0.00	0.00	0	0.00	0.00	0%
Wednesday	0	0.00	0.00	0	0.00	0.00	0%
Thursday	0	0.00	0.00	0	0.00	0.00	0%
Friday	0	0.00	0.00	0	0.00	0.00	0%
Saturday	0	0.00	0.00	0	0.00	0.00	0%
Total	0	0.00	0.00	0	0.00	0.00	0%

Passengers per Revenue Mile per Day of Week Focused Demand Response Service Month: May, 2020								
Warm Hearth Current Month				<u>Warm I</u>	Warm Hearth Previous 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	0	0	0.00	0	0	0.00	0%	
Tuesday	18	47	0.38	41	112	0.37	4%	
Wednesday	25	60	0.42	76	202	0.38	11%	
Thursday	18	49	0.37	65	212	0.31	20%	
Friday	0	0	0.00	0	0	0.00	0%	
Saturday	0	0	0.00	0	0	0.00	0%	
Total	61	156	0.39	182	526	0.35	13%	
<u>C</u>	RC Shuttle Cur	rrent Month		<u>CRC SF</u>				
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	0	0	0.00	0	0	0.00	0%	
Tuesday	0	0	0.00	0	0	0.00	0%	
Wednesday	0	0	0.00	0	0	0.00	0%	
Thursday	0	0	0.00	0	0	0.00	0%	
Friday	0	0	0.00	0	0	0.00	0%	
Saturday	0	0	0.00	0	0	0.00	0%	
Total	0	0	0.00	ll o	0	0.00	0%	

Average Ridership and Revenue Hours by Time of Day All Fixed Routes Month: May, 2020							
-	Time of Day	Avg Total Passengers	Average RH	Avg Pass. per RH			
٧٤	6:00 - 9:00	32.47	21.02	1.54			
rsdå	9:00 - 12:00	72.00	31.60	2.28			
Monday - Thursday	12:00 - 15:00	101.67	31.57	3.22			
L - /	15:00 - 18:00	117.67	31.60	3.72			
da)	18:00 - 21:00	58.67	22.06	2.66			
lon	21:00 - 24:00	4.67	4.86	0.96			
2	24:00 - 27:00	0.00	0.00	0.00			
	6:00 - 9:00	37.40	21.61	1.73			
	9:00 - 12:00	80.00	32.40	2.47			
Friday	12:00 - 15:00	118.20	32.40	3.65			
	15:00 - 18:00	139.00	32.40	4.29			
Ē	18:00 - 21:00	77.40	23.42	3.31			
	21:00 - 24:00	4.60	5.12	0.90			
	24:00 - 27:00	0.00	0.00	0.00			
	6:00 - 9:00	0.00	0.00	0.00			
	9:00 - 12:00	40.40	11.80	3.42			
rday	12:00 - 15:00	70.00	14.90	4.70			
ture	15:00 - 18:00	74.60	14.80	5.04			
Satu	18:00 - 21:00	30.60	9.15	3.34			
	21:00 - 24:00	6.50	3.25	2.00			
	24:00 - 27:00	0.00	0.00	0.00			
	6:00 - 9:00	0.00	0.00	0.00			
Sunday	9:00 - 12:00	8.20	2.05	4.00			
	12:00 - 15:00	62.20	14.75	4.22			
	15:00 - 18:00	62.80	15.00	4.19			
	18:00 - 21:00	26.20	6.65	3.94			
	21:00 - 24:00	4.00	3.00	1.33			
	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-19	100,386	79,617	79.31%	8,292	8.26%	87,909	87.57%	12,477	12.43%
August-19	238,660	214,189	89.75%	9,104	3.81%	223,293	93.56%	15,367	6.44%
September-19	652,901	621,186	95.14%	12,080	1.85%	633,266	96.99%	19,635	3.01%
Total for 1st Quarter:	991,947	914,992	92.24%	29,476	2.97%	944,468	95.21%	47,479	4.79%
October-19	659,218	627,994	95.26%	12,402	1.88%	640,396	97.14%	18,822	2.86%
November-19	469,372	437,175	93.14%	9,683	2.06%	446,858	95.20%	22,514	4.80%
December-19	326,554	305,290	93.49%	8,257	2.53%	313,547	96.02%	13,007	3.98%
Total for 2nd Quarter:	1,455,144	1,370,459	94.18%	30,342	2.09%	1,400,801	96.27%	54,343	3.73%
January-20	310,080	287,110	92.59%	8,633	2.78%	295,743	95.38%	14,337	4.62%
February-20	585,996	558,523	95.31%	10,583	1.81%	569,106	97.12%	16,890	2.88%
March-20	156,468	141,192	90.24%	5,777	3.69%	146,969	93.93%	9,499	6.07%
Total for 3rd Quarter:	1,052,544	986,825	93.76%	24,993	2.37%	1,011,818	96.13%	40,726	3.87%
April-20	9,398	8,706	92.64%	121	1.29%	8,827	93.92%	571	6.08%
May-20	9,981	9,687	97.05%	15	0.15%	9,702	97.20%	279	2.80%
June-20	- ,	- ,		-		-, -		-	
Total for 4th Quarter:	19,379	18,393	94.91%	136	0.70%	18,529	95.61%	850	4.39%
Total for Year:	3,519,014	3,290,669	93.51%	84,947	2.41%	3,375,616	95.93%	143,398	4.07%