# **Operations Monthly Bus Performance Report**

January 2021





n night (Dates in an

Table of Contents	
	Page
Bus Scorecard Overview	3
Bus Service Performance Systemwide In-Service On-Time Performance Scheduled Revenue Service Hours Delivered	9
Bus Maintenance Performance Mean Miles Between Chargeable Mechanical Failures Past Due Critical Preventive Maintenance Program	16
Attendance Maintenance Attendance	22
Bus Cleanliness	23
<b>Safety Performance</b> Bus Accidents per 100,000 Hub Miles Bus Passenger Accidents per 100,000 Boardings	26
Customer Satisfaction Complaints per 100,000 Boardings	32
New Workers' Compensation Claims New Workers' Compensation Claims per 200,000 Exposure Hours OSHA Injuries Filed per 200,000 Exposure Hours Number of Lost Work Days Paid per 200,000 Exposure Hours	36

## Metro Bus Systemwide and Division Scorecard Overview

Metro Bus has ten Metro operating divisions: Division 1 and 2, both operating out of the downtown Los Angeles area; Division 3 in Cypress Park; Arthur Winston Division 5 in South Los Angeles; Division 6 in Venice (Closed); Division 7 in West Hollywood; Division 8 in Chatsworth; Division 9 in El Monte; Division 13 in Los Angeles; Division 15 in Sun Valley; and Division 18 in Carson. Metro Bus systemwide is responsible for the operation of approximately 2,490 Metro buses and 144 Metro Bus lines carrying nearly 395.5 million boarding passengers each year. Metro bus also operates the Orange and Silver Lines.

#### Notes:

Accidents: Accidents of prior month are re-examined each month to allow for reclassification of accidents and late filing of reports.

Complaints: Complaints on scorecard will differ from the Excellence in Service and Support (ESS) section due to increased reporting. Complaints for ESS

calculations are transportation related complaints only.

Lost Work Days and OSHA injuries: There is a one month lag in this data.

Due to the COVID-19-related reduction in service some KPIs will vary significantly.

				FY 2021	FY 2021	FYTD	Nov	Dec	Jan
Measurement	FY 2018	FY 2019	FY 2020	Target	YTD	Status	Month	Month	Month
Bus Systemwide									
Mean Miles Between Mechanical Failures Requiring	4.540	4.555	4 400	5 400	0.005		4.044	4 000	4 000
Bus Exchange. (MMBMF)	4,510	4,555	4,188	5,183	3,825		4,341	4,836	4,833
Number of Unaddressed Road Calls	40	13	31	-	23	-	0	4	0
Mean Miles Between Total Road Calls	4,251	4,063	3,789	4,200	3,753		4,234	4,456	4,672
Bus Traffic Accidents Per 100,000 Miles	4.22	4.29	3.96	3.56	3.06		3.10	2.69	3.01
Number of 482 Alleged Accidents	292	269	242	-	73	-	10	9	11
Complaints per 100,000 Boardings	5.42	5.35	5.54	4.03	5.82		4.97	7.51	6.89
New Reported Workers' Compensation Claims per	17.63	16.11	16.43	14.00	17.05		13.80	14.49	16.78
200,000 Exposure Hours		-						-	
*Lost Work Days per 200,000 Exposure Hours	1,239	1,095	1,389	1,055	1,981		2,219	2,173	N/A
*OSHA Injuries per 200,000 Exposure Hours	11.31	11.04	11.43	9.23	13.57		10.64	11.01	N/A
% of OnTime Pullouts	96.42%	95.89%	94.92%	97.11%	94.00%		94.13%	93.80%	93.30%
In-Service On-time Performance - Early	3.85%	4.06%	5.04%	2.00%	4.71%		3.80%	4.05%	4.52%
In-Service On-time Performance - Late	22.31%	23.11%	21.49%	-	16.23%	-	16.74%	15.82%	15.48%
In-Service On-time Performance - OnTime	73.83%	72.83%	73.47%	78.52%	79.06%		79.47%	80.13%	80.01%
Bus Directly Operated									
Mean Miles Between Mechanical Failures Requiring	4.240	4,259	4.113	5.019	3.748		4.246	4.627	4,709
Bus Exchange. (MMBMF)	, ,	,	, .				, ,	,-	,
Number of Unaddressed Road Calls Mean Miles Between Total Road Calls	40	13	31	-	23	-	0	4	0
	4,009	3,812	3,641	4,222	3,630		4,149	4,227	4,521
Bus Traffic Accidents Per 100,000 Miles	4.26	4.35	4.05	3.62	3.10		3.10	2.80	3.11
Number of 482 Alleged Accidents	292	269	242	-	73	-	10	9	11
Complaints per 100,000 Boardings	5.08	5.10	5.33	3.74	5.71		4.89	7.56	6.95
New Reported Workers' Compensation Claims per 200,000 Exposure Hours	17.63	16.11	16.43	14.00	17.05		13.80	14.49	16.78
*Lost Work Days per 200,000 Exposure Hours	1,239	1,095	1,389	1,055	1,981		2,219	2,173	N/A
*OSHA Injuries per 200,000 Exposure Hours	11.31	11.04	11.43	9.23	13.57		10.64	11.01	N/A
% of OnTime Pullouts	96.37%	95.89%	94.89%	97.00%	93.89%		94.06%	93.74%	93.17%
In-Service On-time Performance - Early	4.03%	4.25%	5.27%	2.00%	4.94%		3.98%	4.24%	4.79%
In-Service On-time Performance - Late	22.20%	23.16%	21.55%	-	16.32%	-	16.86%	15.93%	15.63%
In-Service On-time Performance - OnTime	73.77%	72.59%	73.17%	78.42%	78.74%		79.16%	79.83%	79.58%
Bus Purchased Transportation									
Mean Miles Between Mechanical Failures Requiring Bus Exchange. (MMBMF)	11,485	16,920	5,145	7,500	4,940		5,722	9,436	6,755
Mean Miles Between Total Road Calls	10,022	13,070	6,489	4,000	5,994		5,446	10,783	7,338
Bus Traffic Accidents Per 100,000 Miles	3.87	3.65	3.02	3.00	2.66		3.10	1.55	1.88
Complaints per 100,000 Boardings	12.55	10.60	9.91	10.00	8.07		6.84	6.36	5.62
% of OnTime Pullouts	97.30%	95.89%	95.52%	99.00%	96.17%	0	95.32%	95.05%	95.49%
In-Service On-time Performance - Early	1.32%	1.29%	1.51%	2.00%	1.28%		1.23%	1.08%	1.05%
In-Service On-time Performance - Late	23.93%	22.45%	20.52%	-	14.76%	-	14.92%	14.19%	13.47%
In-Service On-time Performance - OnTime	74.74%	76.26%	77.96%	80.00%	83.96%		83.85%	84.73%	85.48%

N/A = Not Available

\* There is One Month lag in reporting this data

• Green - High probability of achieving the target (on track). Meets Target at 100% or better.

○ Yellow - Uncertain if the target will be achieved -- slight problems, delays or management issues. Falls below Target 70 - 99%.

Measurement	FY 2018	FY 2019	FY 2020	FY 2021 Target	FY 2021 YTD	FYTD Status	Nov Month	Dec Month	Jan Month
Measurement	112010	112013	112020	Target		Status	WOITH	Month	WOITH
Division 1									
Mean Miles Between Mechanical Failures Requiring	4,628	4,321	3,290	5,500	2,993		3,382	3,867	3,452
Bus Exchange. (MMBMF)	4,020		· · · ·	5,500	,		,		3,432
Number of Unaddressed Road Calls	1	0	0	-	7	-	0	3	0
Mean Miles Between Total Road Calls	4,043	3,490	2,901	4,100	2,689		2,907	3,167	3,452
Bus Traffic Accidents Per 100,000 Miles	4.50	4.93	4.62	4.15	3.69		4.63	3.81	4.11
Number of 482 Alleged Accidents	26	24	28	-	5	-	1	0	0
Complaints per 100,000 Boardings	3.87	4.24	4.34	3.00	3.89		3.56	4.56	5.30
New Reported Workers' Compensation Claims per	12.91	12.28	16.44	11.99	17.51		15.00	9.48	10.59
200,000 Exposure Hours	12.91	12.20	10.44	11.99			15.00	9.40	10.59
*Lost Work Days per 200,000 Exposure Hours	953	1,011	731	731	1,199		1,128	2,261	N/A
*OSHA Injuries per 200,000 Exposure Hours	8.90	8.95	13.10	7.78	15.06		6.00	3.16	N/A
% of OnTime Pullouts	95.70%	94.77%	93.74%	97.00%	91.62%		91.14%	92.68%	91.28%
In-Service On-time Performance - Early	3.50%	4.13%	6.95%	2.00%	5.75%		4.58%	5.19%	5.35%
In-Service On-time Performance - Late	22.76%	21.66%	19.21%	-	14.18%	-	14.85%	12.59%	12.44%
In-Service On-time Performance - OnTime	73.73%	74.21%	73.84%	78.07%	80.07%		80.57%	82.22%	82.21%
Division 2									
Mean Miles Between Mechanical Failures Requiring	6,331	6,427	5,646	7,000	5,306		6,820	6,197	9,404
Bus Exchange. (MMBMF)		ŕ	3,040	7,000				,	
Number of Unaddressed Road Calls	2	2	1	-	0	-	0	0	0
Mean Miles Between Total Road Calls	5,549	4,942	4,665	5,400	4,664		5,516	5,336	8,087
Bus Traffic Accidents Per 100,000 Miles	4.66	4.68	4.13	4.13	3.24		3.20	3.38	3.96
Number of 482 Alleged Accidents	13	23	24	-	3	-	0	0	1
Complaints per 100,000 Boardings	3.13	2.96	3.25	2.50	3.24		1.98	4.36	3.31
New Reported Workers' Compensation Claims per 200,000 Exposure Hours	20.72	16.33	16.95	16.95	23.82		12.44	18.09	27.94
*Lost Work Days per 200,000 Exposure Hours	1,386	1,368	885	885	1,961		1,974	3,128	N/A
*OSHA Injuries per 200,000 Exposure Hours	10.25	9.80	12.47	11.40	22.69	Ŏ	9.33	24.12	N/A
% of OnTime Pullouts	98.07%	97.33%	96.40%	97.00%	96.31%	Õ	96.63%	95.88%	95.54%
In-Service On-time Performance - Early	4.58%	3.16%	3.02%	2.00%	2.70%		2.54%	2.67%	3.14%
In-Service On-time Performance - Late	27.28%	29.34%	26.88%	-	20.09%	-	20.27%	19.47%	20.57%
In-Service On-time Performance - OnTime	68.14%	67.51%	70.10%	78.07%	77.21%		77.19%	77.86%	76.29%
Division 3		1							
Mean Miles Between Mechanical Failures Requiring Bus Exchange. (MMBMF)	4,508	4,353	4,286	5,500	4,228		4,177	4,513	5,030
Number of Unaddressed Road Calls	1	0	1	-	0	-	0	0	0
Mean Miles Between Total Road Calls	4,304		3,872	4,380		0	4,409	4,359	5,234
Bus Traffic Accidents Per 100,000 Miles	4.96	4.66	3.94	3.94	3.39	$\bigcirc$	4.03	3.13	2.84
Number of 482 Alleged Accidents	15		10	-	5	-	1	1	2
Complaints per 100,000 Boardings	5.04	5.19	5.24	4.00	7.29		7.37	10.01	9.63
New Reported Workers' Compensation Claims per 200,000 Exposure Hours	17.88	17.44	10.90	10.90	8.93		9.96	3.35	10.81
*Lost Work Days per 200,000 Exposure Hours	1,306	1,169	1,440	1,247	1,397		1,545	1,446	N/A
*OSHA Injuries per 200,000 Exposure Hours	12.94	11.92	7.88	7.88	7.57		3.32	6.69	N/A
% of OnTime Pullouts	97.37%	96.31%	97.33%	97.00%	96.49%		96.73%	95.59%	94.36%
In-Service On-time Performance - Early	5.07%	4.85%	6.27%	2.00%	7.69%		6.86%	7.61%	9.05%
In-Service On-time Performance - Late	21.88%	22.27%	20.54%	-	18.45%	-	19.03%	18.35%	18.38%
In-Service On-time Performance - OnTime	73.05%	72.88%	73.18%	78.07%	73.87%		74.11%	74.04%	72.57%

N/A = Not Available
\* There is One Month lag in reporting this data
Green - High probability of achieving the target (on track). Meets Target at 100% or better.
Yellow - Uncertain if the target will be achieved -- slight problems, delays or management issues. Falls below Target 70 - 99%.
Red - High probability that the target will not be achieved -- significant problems and/or delays. Falls below Target >70%.

				FY 2021	FY 2021	FYTD	Nov	Dec	Jan
Measurement	FY 2018	FY 2019	FY 2020	Target	YTD	Status	Month	Month	Month
Division 5									
Mean Miles Between Mechanical Failures Requiring									
Bus Exchange. (MMBMF)	4,520	4,498	4,151	5,000	3,778		4,472	4,440	4,251
Number of Unaddressed Road Calls	2	0	0	-	1	-	0	0	0
Mean Miles Between Total Road Calls	3,925	3,818	3,500	4,308	3,283		4,372	3,625	3,865
Bus Traffic Accidents Per 100,000 Miles	5.02	5.24	4.78	4.78	4.17		4.32	2.28	2.65
Number of 482 Alleged Accidents	29	52	30	-	10	-	1	1	1
Complaints per 100,000 Boardings	4.61	4.94	5.04	3.50	5.98		5.53	7.50	6.14
New Reported Workers' Compensation Claims per	47.45	40.50	40.40	40.50	40.00		42.04	10.40	7.50
200,000 Exposure Hours	17.45	19.52	18.18	16.58	13.60		13.21	19.42	7.52
*Lost Work Days per 200,000 Exposure Hours	1,139	903	1,679	1,215	1,789		1,587	1,305	N/A
*OSHA Injuries per 200,000 Exposure Hours	10.03	12.25	11.53	11.14	10.18		6.60	12.95	N/A
% of OnTime Pullouts	97.38%	97.61%	94.44%	97.00%	94.10%		94.13%	94.89%	94.09%
In-Service On-time Performance - Early	5.19%	5.39%	6.98%	2.00%	4.51%		2.82%	3.10%	3.42%
In-Service On-time Performance - Late	23.91%	24.69%	24.96%	-	20.87%	-	22.19%	20.53%	21.39%
In-Service On-time Performance - OnTime	70.90%	69.92%	68.06%	78.07%	74.62%	$\bigcirc$	74.98%	76.37%	75.19%
Division 7									
Division 7 Mean Miles Between Mechanical Failures Reguiring	1	1							
Bus Exchange. (MMBMF)	3,943	4,524	5,392	4,500	4,306	$\bigcirc$	4,377	5,671	4,831
Number of Unaddressed Road Calls	17	1	2	-	3	-	0	1	0
Mean Miles Between Total Road Calls	3,484	3,550	4,171	3,902	3,853		3,789	4,504	4,033
Bus Traffic Accidents Per 100,000 Miles	5.02	5.58	5.40	4.60	3.66	Ŏ	2.88	3.92	3.18
Number of 482 Alleged Accidents	53	31	22	-	11	-	1	2	3
Complaints per 100,000 Boardings	5.83	6.48	7.23	4.50	7.30		6.95	8.64	6.05
New Reported Workers' Compensation Claims per 200,000 Exposure Hours	14.88	11.58	13.36	13.36	12.26		8.40	2.77	2.95
*Lost Work Days per 200,000 Exposure Hours	869	789	1,108	799	2,009		3,344	1,897	N/A
*OSHA Injuries per 200,000 Exposure Hours	7.99	8.42	9.16	7.03	14.15	Ŏ	16.80	2.77	N/A
% of OnTime Pullouts	95.68%	95.08%	93.81%	97.00%	92.77%	Ŏ	92.24%	93.20%	91.15%
In-Service On-time Performance - Early	4.90%	5.40%	4.41%	2.00%	5.42%		5.09%	4.90%	5.52%
In-Service On-time Performance - Late	25.29%	24.80%	23.96%	-	16.98%	-	17.37%	16.59%	16.57%
In-Service On-time Performance - OnTime	69.80%	69.80%	71.63%	78.07%	77.59%	$\bigcirc$	77.54%	78.51%	77.91%
Division 8	ļ								
Mean Miles Between Mechanical Failures Requiring Bus Exchange. (MMBMF)	4,788	4,586	4,433	5,500	3,555		3,471	4,528	5,357
Number of Unaddressed Road Calls	2	1	18	-	7	-	0	0	0
Mean Miles Between Total Road Calls	5,239	5,274	4,705	5,400	3,935		4,089	4,897	6,286
Bus Traffic Accidents Per 100,000 Miles	2.48	2.43	2.90	2.35	1.77		1.45	1.25	2.33
Number of 482 Alleged Accidents	18	1	13	-	0	-	0	0	0
Complaints per 100,000 Boardings	5.39	5.40	5.21	4.50	6.12		5.71	6.35	6.62
New Reported Workers' Compensation Claims per 200,000 Exposure Hours	18.53		17.35	17.35	22.29	0	16.92	26.48	21.22
*Lost Work Days per 200,000 Exposure Hours	1,624	1,332	1,720	1,543	2,753		3,833	2,511	N/A
*OSHA Injuries per 200,000 Exposure Hours	13.17		14.94	12.46	18.62		13.54	16.55	N/A
% of OnTime Pullouts	96.70%		95.64%	97.00%	95.75%		96.82%	96.11%	95.57%
In-Service On-time Performance - Early	3.51%		6.33%	2.00%	7.52%		5.48%	6.29%	7.34%
In-Service On-time Performance - Late	13.61%	16.59%	15.83%	-	10.01%	-	11.09%	10.32%	8.61%
		79.36%	77.84%	80.00%	82.47%		83.43%	83.39%	84.05%

\* There is One Month lag in reporting this data

• Green - High probability of achieving the target (on track). Meets Target at 100% or better.

O Yellow - Uncertain if the target will be achieved -- slight problems, delays or management issues. Falls below Target 70 - 99%.

				FY 2021	FY 2021	FYTD	Nov	Dec	Jan
Measurement	FY 2018	FY 2019	FY 2020	Target	YTD	Status	Month	Month	Month
Division 9									
Mean Miles Between Mechanical Failures Requiring	1	1							
Bus Exchange. (MMBMF)	4,541	4,628	4,867	5,500	4,692	$\bigcirc$	4,770	6,011	5,014
Number of Unaddressed Road Calls	2	1	1	-	0	-	0	0	0
Mean Miles Between Total Road Calls	4,844	4,839	4,727	5,000	5,327		5,203	5,813	5,565
Bus Traffic Accidents Per 100,000 Miles	2.73	2.86	2.50	2.50	1.98		2.91	1.89	1.18
Number of 482 Alleged Accidents	9	8	7	-	4	-	0	1	0
Complaints per 100,000 Boardings	7.30	6.72	6.76	5.50	7.54		7.22	9.17	7.93
New Reported Workers' Compensation Claims per	00.40	40.00	10.00	10.00	47.00		00.07	5 70	10.10
200,000 Exposure Hours	22.46	19.99	19.28	19.28	17.92		28.97	5.70	12.43
*Lost Work Days per 200,000 Exposure Hours	1,462	1,833	1,779	1,461	2,962		2,736	3,106	N/A
*OSHA Injuries per 200,000 Exposure Hours	12.83	13.45	13.42	12.64	17.81		26.07	8.55	N/A
% of OnTime Pullouts	96.67%	97.26%	96.73%	97.00%	95.84%		96.10%	94.51%	95.19%
In-Service On-time Performance - Early	3.41%	4.08%	5.11%	2.00%	5.31%		4.52%	5.04%	5.34%
In-Service On-time Performance - Late	17.96%	18.52%	15.11%	-	9.43%	-	10.44%	9.15%	9.77%
In-Service On-time Performance - OnTime	78.63%	77.39%	79.78%	80.00%	85.26%		85.04%	85.81%	84.89%
Division 13									
Mean Miles Between Mechanical Failures Requiring	2 1 1 4	2 002	2,916	4,000	2,718		3,708	2 1 2 1	2 472
Bus Exchange. (MMBMF)	3,114	3,083	2,910	4,000	2,710		3,700	3,121	3,473
Number of Unaddressed Road Calls	2	0	0	-	0	-	0	0	0
Mean Miles Between Total Road Calls	2,808	2,565	2,423	3,000	2,607		3,397	2,909	2,867
Bus Traffic Accidents Per 100,000 Miles	5.54	5.74	5.58	5.25	3.31		3.71	2.33	4.21
Number of 482 Alleged Accidents	32	32	22	-	6	-	0	0	1
Complaints per 100,000 Boardings	4.07	3.94	4.63	3.50	5.50		4.40	8.57	7.17
New Reported Workers' Compensation Claims per	40.50	47.54	40.04	40.04	47.04		40.50	0.50	00.50
200,000 Exposure Hours	19.56	17.54	13.81	13.81	17.61		13.56	8.59	36.59
*Lost Work Days per 200,000 Exposure Hours	1,277	901	1,366	1,136	1,224		1,054	1,606	N/A
*OSHA Injuries per 200,000 Exposure Hours	12.05	10.70	5.57	5.57	8.19		8.14	5.72	N/A
% of OnTime Pullouts	95.95%	94.98%	93.79%	97.00%	91.24%		91.43%	90.89%	90.53%
In-Service On-time Performance - Early	4.24%	5.30%	5.17%	2.00%	6.51%		6.59%	5.94%	6.37%
In-Service On-time Performance - Late	24.05%	23.20%	21.85%	-	15.83%	-	15.14%	15.95%	15.85%
In-Service On-time Performance - OnTime	71.71%	71.51%	72.98%	78.07%	77.66%		78.27%	78.11%	77.78%
Division 15									
Mean Miles Between Mechanical Failures Requiring	4,171	3,943	3,730	5,000	4,110		5,630	6,065	5,774
Bus Exchange. (MMBMF)	,		,	5,000	,		,	,	5,774
Number of Unaddressed Road Calls	4	-	7	-	5	-	0	0	0
Mean Miles Between Total Road Calls	4,226	,	3,627	4,310	,		5,441	5,904	5,202
Bus Traffic Accidents Per 100,000 Miles	3.54		3.34	3.34	2.34		1.70	3.45	2.86
Number of 482 Alleged Accidents	17				5	-	2	1	0
Complaints per 100,000 Boardings	6.20	6.32	6.60	4.50	7.01		5.64	11.14	8.87
New Reported Workers' Compensation Claims per	14.20	13.94	14.63	13.85	19.05		9.66	27.08	13.40
200,000 Exposure Hours									
*Lost Work Days per 200,000 Exposure Hours	1,125		1,490	1,057	2,047		2,285	1,881	N/A
*OSHA Injuries per 200,000 Exposure Hours	10.52		11.74	10.87	14.81		12.07	12.31	N/A
% of OnTime Pullouts	95.14%		93.22%	97.00%	93.12%		93.71%	92.73%	91.97%
In-Service On-time Performance - Early	3.97%		7.35%	2.00%	5.37%		2.66%	2.98%	3.53%
In-Service On-time Performance - Late	20.25%		20.96%	-	15.94%	-	16.90%	15.87%	15.39%
In-Service On-time Performance - OnTime	75.78%	73.89%	71.70%	78.07%	78.69%		80.44%	81.15%	81.09%

\* There is One Month lag in reporting this data

 $\blacksquare$  Green - High probability of achieving the target (on track). Meets Target at 100% or better.

O Yellow - Uncertain if the target will be achieved -- slight problems, delays or management issues. Falls below Target 70 - 99%.

Measurement	FY 2018	FY 2019	FY 2020	FY 2021 Target	FY 2021 YTD	FYTD Status	Nov Month	Dec Month	Jan Month
Division 18									
Mean Miles Between Mechanical Failures Requiring Bus Exchange. (MMBMF)	4,049	3,922	3,990	4,500	3,422		3,786	3,981	4,057
Number of Unaddressed Road Calls	1	0	1	-	0	-	0	0	0
Mean Miles Between Total Road Calls	3,901	3,598	3,416	4,200	3,270		3,995	3,751	4,174
Bus Traffic Accidents Per 100,000 Miles	5.05	5.24	4.04	4.04	3.84		3.07	2.62	3.96
Number of 482 Alleged Accidents	72	45	56	-	24	-	4	3	3
Complaints per 100,000 Boardings	5.10	4.97	5.14	4.00	5.47		3.78	7.37	9.32
New Reported Workers' Compensation Claims per 200,000 Exposure Hours	14.24	14.55	15.72	13.87	15.83		11.43	21.12	24.41
*Lost Work Days per 200,000 Exposure Hours	1,154	997	1,225	1,093	1,577		2,040	1,677	N/A
*OSHA Injuries per 200,000 Exposure Hours	11.19	8.57	10.02	10.02	8.26		4.57	16.43	N/A
% of OnTime Pullouts	96.16%	95.38%	94.66%	97.00%	92.83%		93.19%	92.08%	92.70%
In-Service On-time Performance - Early	2.42%	1.90%	2.15%	2.00%	1.80%		1.77%	2.13%	2.23%
In-Service On-time Performance - Late	24.35%	26.00%	23.03%	-	18.18%	-	18.40%	17.67%	15.86%
In-Service On-time Performance - OnTime	73.23%	72.09%	74.83%	78.07%	80.02%		79.83%	80.20%	81.92%

\* There is One Month lag in reporting this data

• Green - High probability of achieving the target (on track). Meets Target at 100% or better.

O Yellow - Uncertain if the target will be achieved -- slight problems, delays or management issues. Falls below Target 70 - 99%.

Maaaaaa	FY 2018	FY 2019	FY 2020	FY 2021	FY 2021 YTD	FYTD Status	Nov Month	Dec Month	Jan Month
Measurement	FT 2010	FT 2019	F1 2020	Target	TID	Status	wonth	wonth	Month
Division 95									
Mean Miles Between Mechanical Failures Requiring Bus Exchange. (MMBMF)	23,836	21,480	6,359	7,500	6,570		7,259	11,375	8,708
Mean Miles Between Total Road Calls	19,546	19,117	11,927	4,000	14,665		11,615	18,958	14,928
Bus Traffic Accidents Per 100,000 Miles	4.25	3.35	2.69	3.00	1.34		1.72	0.88	0.00
Complaints per 100,000 Boardings	8.03	7.34	5.93	10.00	3.87		0.84	2.71	4.12
% of OnTime Pullouts	99.76%	99.73%	99.73%	99.00%	99.83%	N/A	100.00%	100.00%	99.78%
In-Service On-time Performance - Early	0.68%	0.62%	0.81%	2.00%	0.46%		0.41%	0.55%	0.45%
In-Service On-time Performance - Late	21.33%	16.74%	13.37%	-	8.08%	-	7.78%	7.64%	4.98%
In-Service On-time Performance - OnTime	77.99%	82.64%	85.81%	80.00%	91.46%		91.81%	91.81%	94.56%
Division 97									
Mean Miles Between Mechanical Failures Requiring Bus Exchange. (MMBMF)	5,534	13,604	4,265	7,500	4,095		5,706	7,038	5,638
Mean Miles Between Total Road Calls	5,180	8,807	7,544	4,000	10,753		8,300	19,002	11,629
Bus Traffic Accidents Per 100,000 Miles	4.28	3.44	2.12	3.00	2.12		2.19	0.53	2.15
Complaints per 100,000 Boardings	17.67	13.69	12.89	10.00	9.64		8.43	7.05	6.71
% of OnTime Pullouts	97.55%	95.34%	96.04%	99.00%	97.57%	N/A	95.96%	96.26%	97.53%
In-Service On-time Performance - Early	1.80%	1.52%	2.44%	2.00%	1.55%		1.25%	0.91%	1.21%
In-Service On-time Performance - Late	24.72%	25.67%	25.21%	-	20.10%		18.63%	18.80%	17.36%
In-Service On-time Performance - OnTime	73.48%	72.81%	72.36%	80.00%	78.36%	$\bigcirc$	80.12%	80.29%	81.43%
Division 98									
Mean Miles Between Mechanical Failures Requiring Bus Exchange. (MMBMF)	35,973	19,768	5,696	7,500	5,285	$\bigcirc$	4,945	13,558	7,501
Mean Miles Between Total Road Calls	23,320	20,553	4,361	4,000	2,978		3,006	5,736	3,857
Bus Traffic Accidents Per 100,000 Miles	3.28	4.13	4.27	3.00	4.35		5.22	3.35	2.96
Complaints per 100,000 Boardings	9.36	9.15	9.22	10.00	8.78		8.77	7.69	5.28
% of OnTime Pullouts	95.67%	93.87%	92.40%	99.00%	92.10%	N/A	90.67%	90.05%	90.17%
In-Service On-time Performance - Early	1.34%	1.63%	1.41%	2.00%	1.82%		2.01%	1.71%	1.41%
In-Service On-time Performance - Late	25.18%	24.20%	23.47%	-	16.45%	-	18.16%	16.41%	16.14%
In-Service On-time Performance - OnTime	73.48%	74.17%	75.11%	80.00%	81.73%		79.83%	81.88%	82.45%

• Green - High probability of achieving the target (on track). Meets Target at 100% or better.

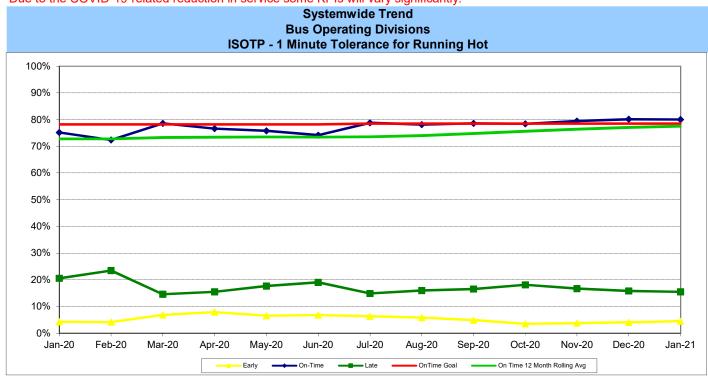
○ Yellow - Uncertain if the target will be achieved -- slight problems, delays or management issues. Falls below Target 70 - 99%.

# **BUS SERVICE PERFORMANCE**

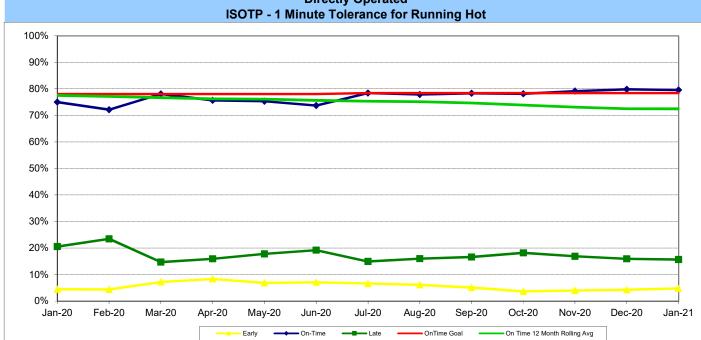
**IN-SERVICE ON-TIME PERFORMANCE** 

Definition: This performance indicator measures the percentage of actual buses in revenue service that depart selected time points no more than 1 minute early and no more than five minutes later than scheduled. (Includes Rapid buses). Calculation: ISOTP%: Early = Early Cases/Total Cases; OnTime = OnTime Cases/Total Cases; Late = Late Cases/Total

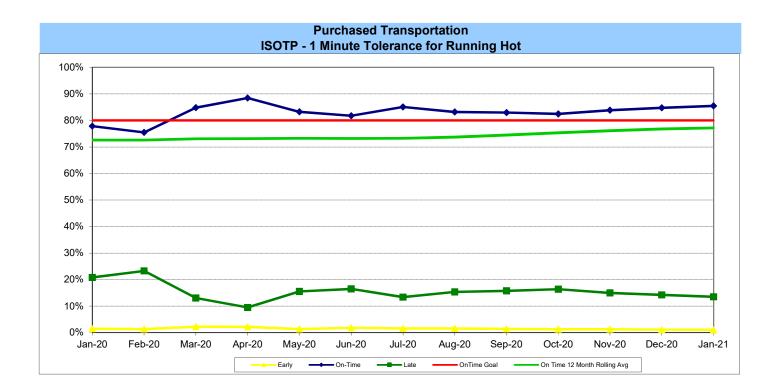
Cases Due to the COVID-19-related reduction in service some KPIs will vary significantly.

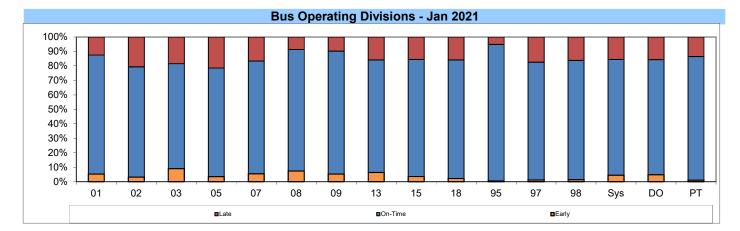


Remaining Above the Goal line is the target.

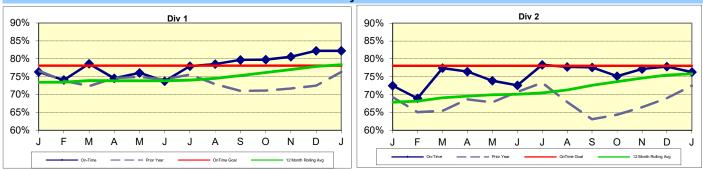


**Directly Operated** 

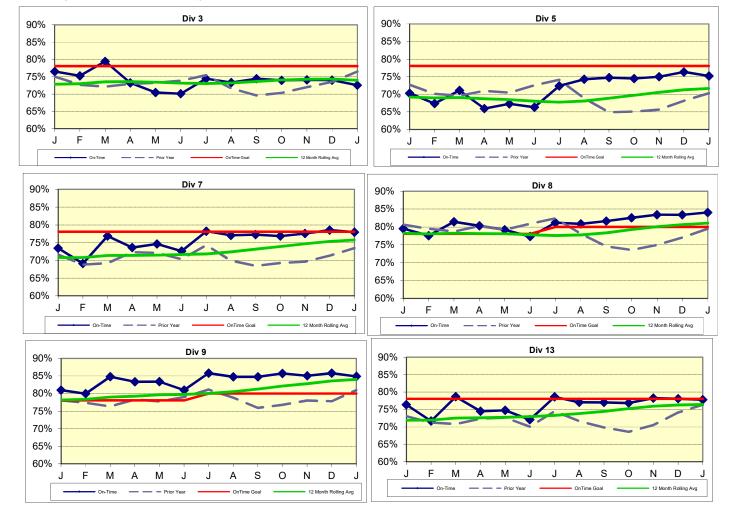


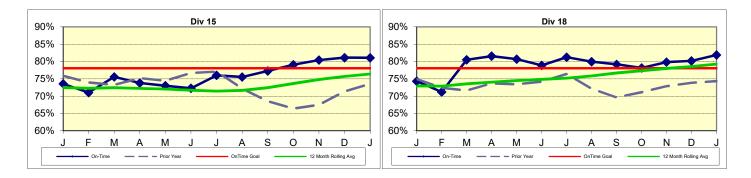


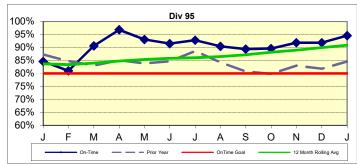


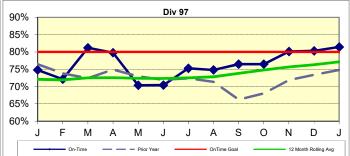


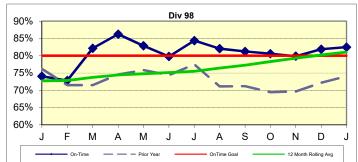












# **ISOTP By Division**

# Year-to-Date Compared To Last Year

	FY 2020	FY 2021 YTD	Variance
<b>Division 1</b>			
Early	6.95%	5.75%	-1.20%
On-Time	73.84%	80.07%	6.23%
Late	19.21%	14.18%	-5.03%

<b>Division 2</b>			
Early	3.02%	2.70%	-0.33%
On-Time	70.10%	77.21%	7.11%
Late	26.88%	20.09%	-6.79%

<b>Division 3</b>			
Early	6.27%	7.69%	1.41%
On-Time	73.18%	73.87%	0.68%
Late	20.54%	18.45%	-2.10%

<b>Division 5</b>			
Early	6.98%	4.51%	-2.46%
On-Time	68.06%	74.62%	6.56%
Late	24.96%	20.87%	-4.10%

<b>Division 7</b>			
Early	4.41%	5.42%	1.02%
On-Time	71.63%	77.59%	5.96%
Late	23.96%	16.98%	-6.98%

<b>Division 8</b>			
Early	6.33%	7.52%	1.19%
On-Time	77.84%	82.47%	4.62%
Late	15.83%	10.01%	-5.82%

<b>Division</b> 9			
Earl	/ 5.11%	5.31%	0.20%
On-Time	e 79.78%	85.26%	5.48%
Late	e 15.11%	9.43%	-5.68%

Division 13			
Early	5.17%	6.51%	1.35%
On-Time	72.98%	77.66%	4.68%
Late	21.85%	15.83%	-6.03%

	FY 2020	FY 2021 YTD	Variance
<b>Division 15</b>			
Early	7.35%	5.37%	-1.97%
On-Time	71.70%	78.69%	6.99%
Late	20.96%	15.94%	-5.02%

Division 18			
Early	2.15%	1.80%	-0.35%
On-Time	74.83%	80.02%	5.19%
Late	23.03%	18.18%	-4.84%

Division 95			
Early	0.81%	0.46%	-0.35%
On-Time	85.81%	91.46%	5.65%
Late	13.37%	8.08%	-5.29%

Division 97			
Early	2.44%	1.55%	-0.89%
On-Time	72.36%	78.36%	6.00%
Late	25.21%	20.10%	-5.11%

Division 98			
Early	1.41%	1.82%	0.41%
On-Time	75.11%	81.73%	6.62%
Late	23.47%	16.45%	-7.02%

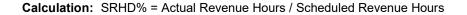
SYSTEMWID	E		
Early	5.04%	4.71%	-0.33%
On-Time	73.47%	79.06%	5.59%
Late	21.49%	16.23%	-5.26%

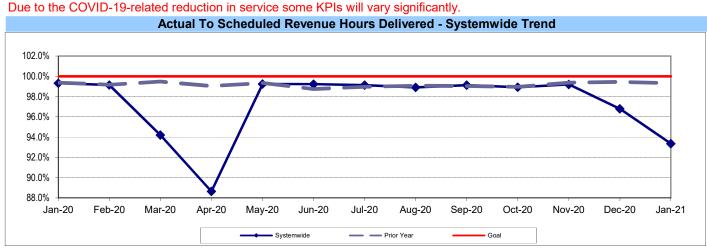
DIRECTLY O	PERATED		
Early	5.27%	4.94%	-0.34%
On-Time	73.17%	78.74%	5.57%
Late	21.55%	16.32%	-5.23%

PURCHASED TRANSPORTATION			
Early	1.51%	1.28%	-0.23%
On-Time	77.96%	83.96%	6.00%
Late	20.52%	14.76%	-5.76%

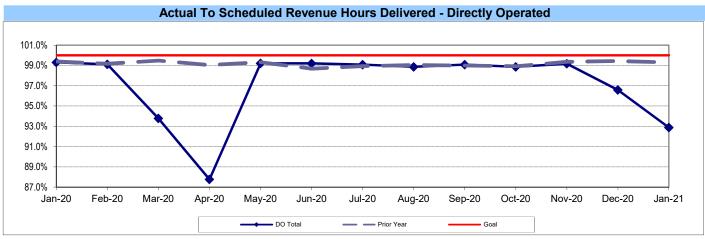
#### ACTUAL TO SCHEDULED REVENUE HOURS DELIVERED

**Definition:** This performance indicator shows the percentage of scheduled Revenue Hours delivered after deducting cancellations, outlates and in-service equipment failures.

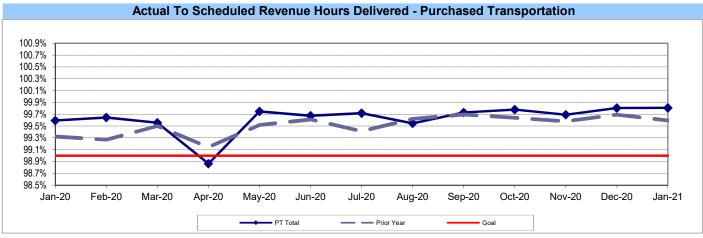


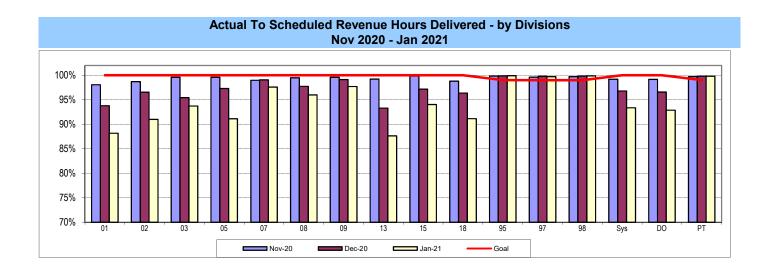


Remaining At the Goal line is the target.



Remaining At the Goal line is the target.





# **BUS MAINTENANCE PERFORMANCE**

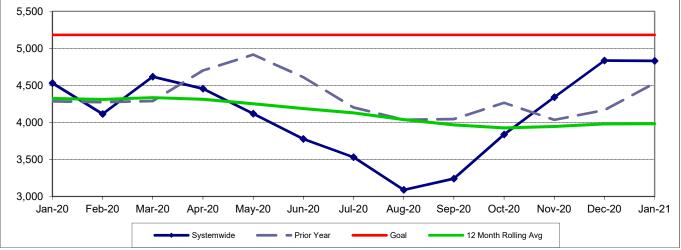


**Definition:** Number of Hub Miles traveled between mechanical failures. This includes only those Road Calls that required a bus exchange.

Calculation: MMBMF = Total Hub Miles / Mechanical Failures Requiring a Bus Exchange

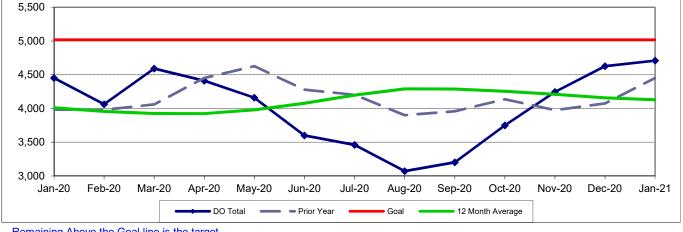
Due to the COVID-19-related reduction in service some KPIs will vary significantly.





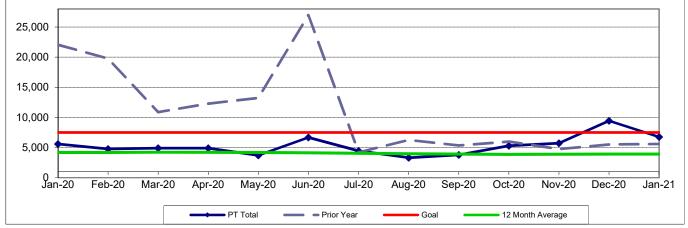
Remaining Above the Goal line is the target.



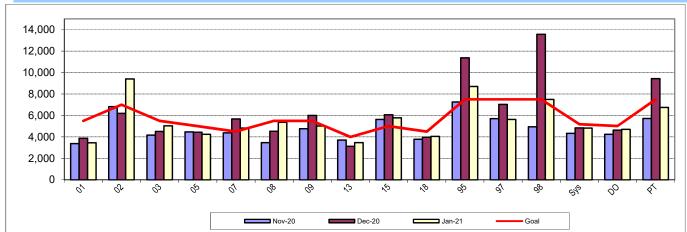


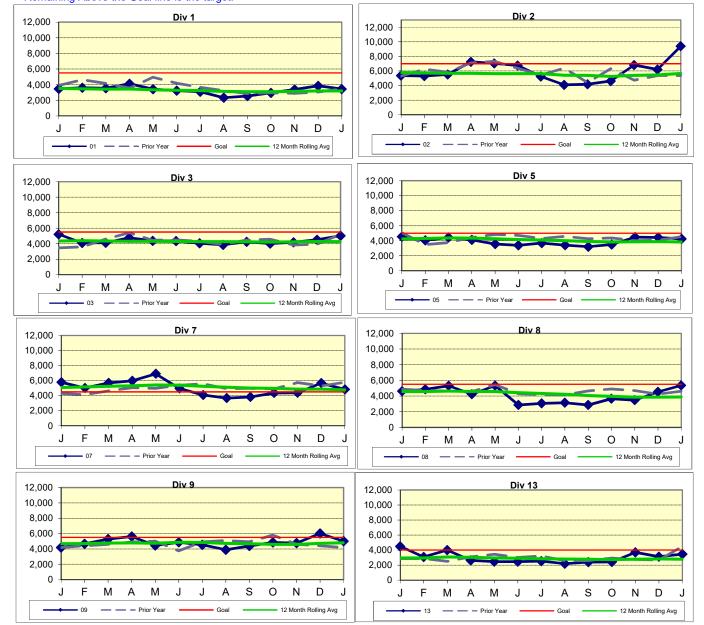
Remaining Above the Goal line is the target.

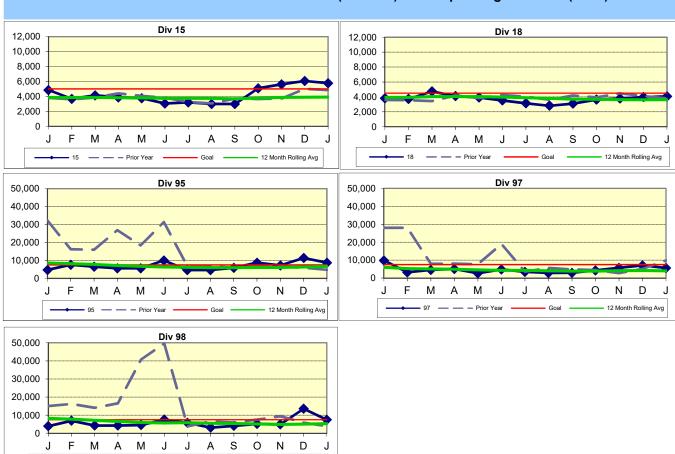
Mean Miles Between Mechanical Failures (MMBMF) - Purchased Transportation



#### Mean Miles Between Mechanical Failures (MMBMF) - Bus Operating Divisions Nov 2020 - Jan 2021







## Mean Miles Between Mechanical Failures (MMBMF) - Bus Operating Divisions (cont.)

#### **Unaddressed Road Calls - Bus Operating Divisions**

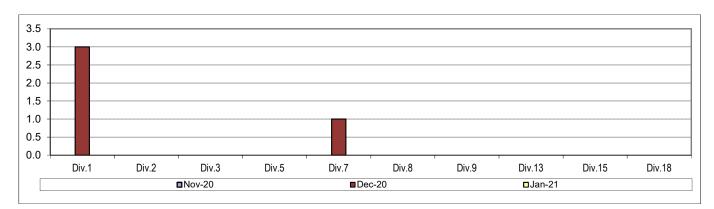
12 Month Rolling Avg

**Definition:** Road Calls that were not assigned in the system. **Calculation:** Unaddressed Road Calls = Total Number of Unaddressed Road Calls.

Goal

- Prior Year

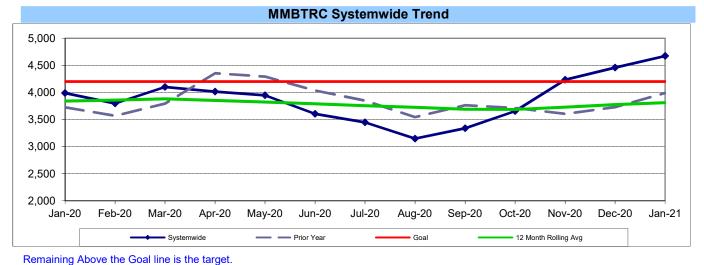
98



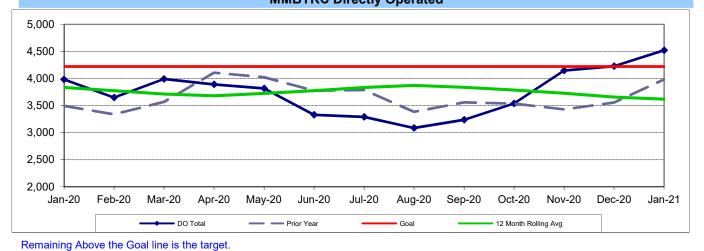
## MEAN MILES BETWEEN TOTAL ROAD CALLS (MMBTRC)

**Definition:** Number of Hub Miles traveled between Total Road Calls. This includes all Road Calls that required a mechanic dispatch.

**Calculation:** MMBTRC = Total Hub Miles / Total Road Calls

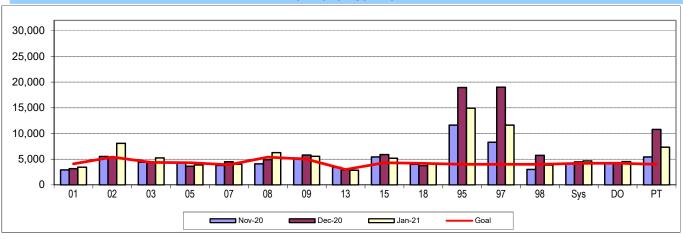






**MMBTRC Purchased Transportation** 16,000 14,000 12,000 10,000 8,000 6,000 4,000 2,000 9an-20 Feb-20 Mar-20 Apr-20 May-20 Jun-20 Jul-20 Aug-20 Sep-20 Oct-20 Nov-20 Dec-20 Jan-21 PT Total - Prior Year 12 Month Rolling Avg Goal

## MMBTRC - Bus Operating Divisions Nov 2020 - Jan 2021



## Fleet Mix by Fuel Type Systemwide (Including Contract Services)

	Number of Buses	Percent of Buses
CNG	1,934	97.97%
Electric	40	2.03%
Diesel	0	0.00%
Gasoline	0	0.00%
Propane	0	0.00%
Hybrid	0	0.00%
Total	1,974	100.00%

# Average Age of Fleet by Divisions

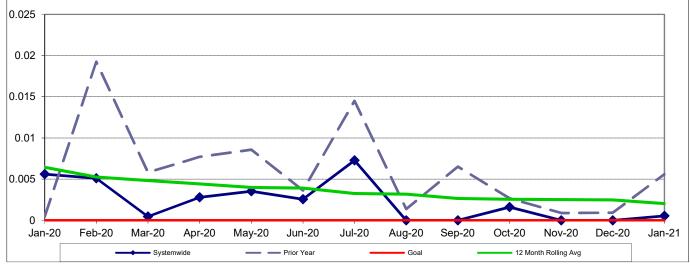
Div 1	Div 2	Div 3	Div 5	Div 7	Div 8
5.56	5.48	5.58	8.11	7.49	5.83
Div 9	Div 13	Div 15	Div 18		
5.95	7.18	6.02	7.13		

#### PAST DUE CRITICAL PREVENTIVE MAINTENANCE PROGRAM JOBS (PMP's)

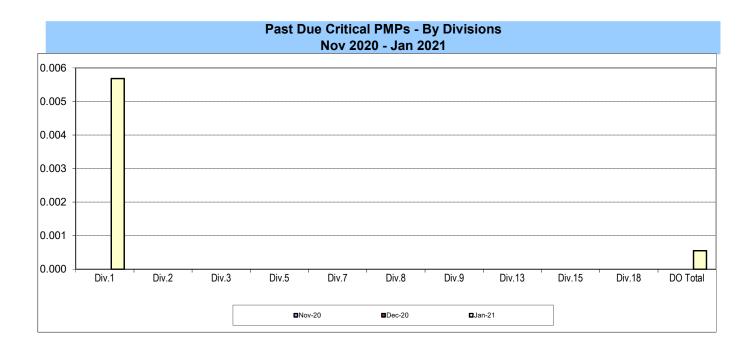
**Definition:** Number of critical preventative maintenance jobs that are not completed on the last day of the month. This indicator measures maintenance management's ability to prioritize and perform critical repairs and indicates the general maintenance condition of the fleet.



# Past Due Critical PMPs - Systemwide Trend



Remaining Below the Goal line is the target.

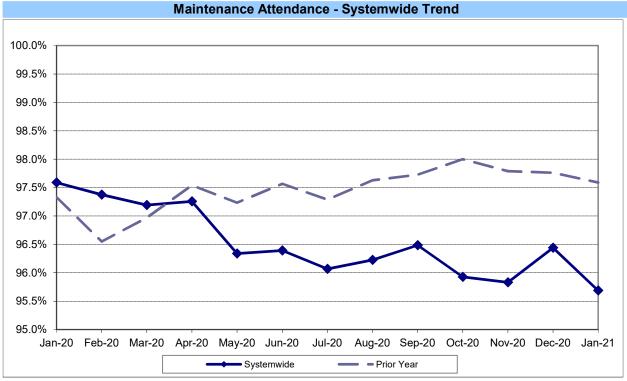


# ATTENDANCE

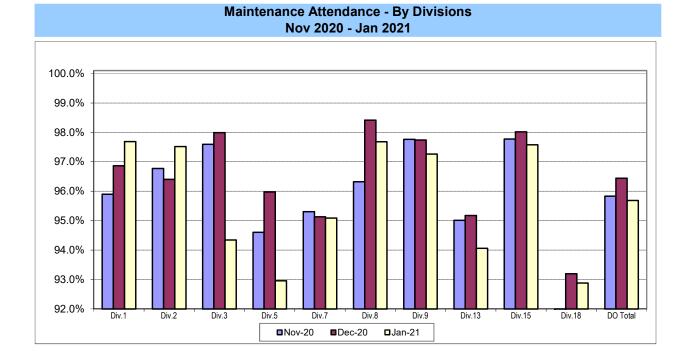
## MAINTENANCE ATTENDANCE

**Definition:** Maintenance Mechanics and Service Attendants - % attendance Monday through Friday for the calendar month.

**Calculation:** (Total FTEs assigned - FTEs absent) / Total FTEs assigned Due to the COVID-19-related reduction in service some KPIs will vary significantly.



Higher is better.



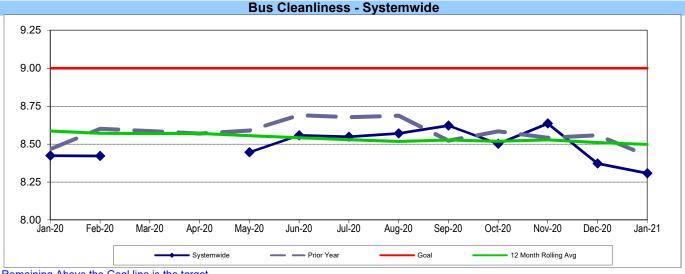
# **BUS CLEANLINESS**

**Definition**: A team of two Quality Assurance Supervisors inspects and rates ten percent of the fleet at each division per time period. Sixteen categories are examined and assigned a point value as follows: 1-3 = Unsatisfactory; 4-7 = Conditional; 8-10 = Satisfactory. The individual item scores are averaged, unweighted, to produce an overall cleanliness rating.

**Calculation**: Overall Cleanliness Rating = Total Points Accumulated / number of categories

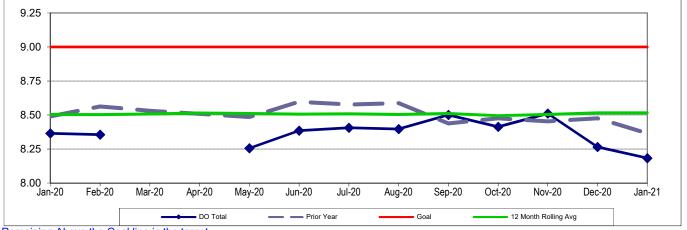
Due to the COVID-19-related reduction in service some KPIs will vary significantly.

Per Quality Assurance, there were no bus inspections in March or April.



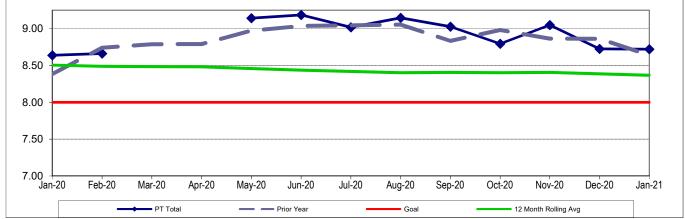
Remaining Above the Goal line is the target.

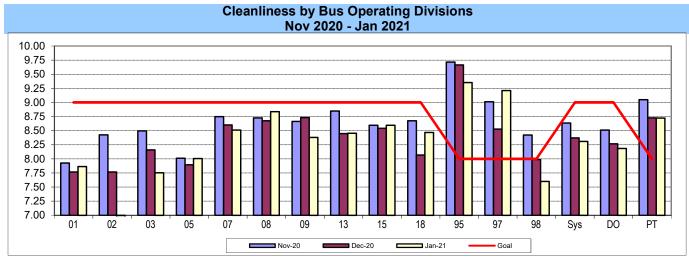
**Bus Cleanliness - Directly Operated** 

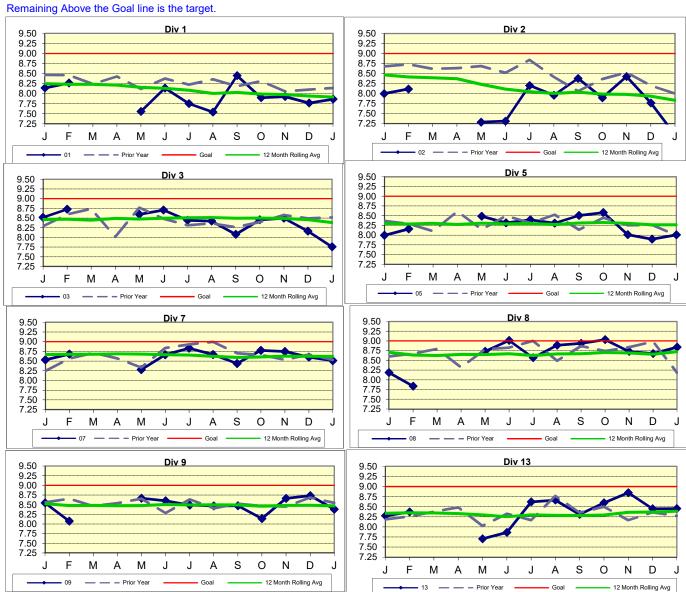


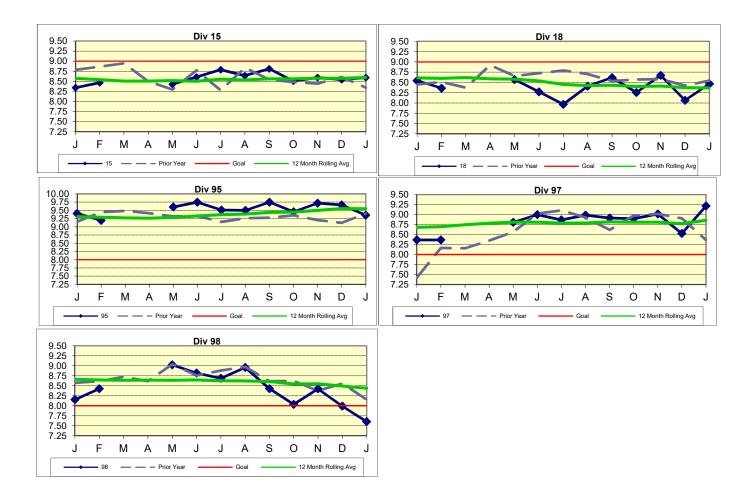


Bus Cleanliness - Purchased Transporation









# SAFETY PERFORMANCE

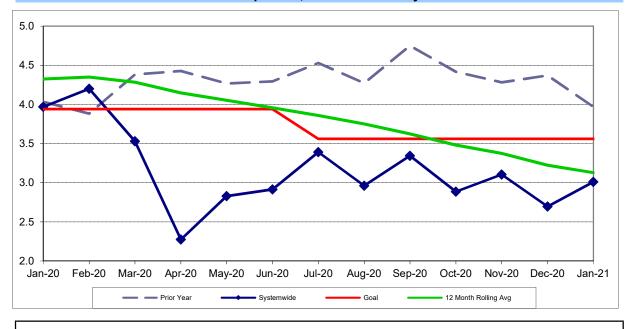
## **BUS TRAFFIC ACCIDENTS PER 100,000 HUB MILES**

Definition: Number of Traffic Accidents for every 100,000 Hub Miles traveled.

**Calculation:** Traffic Accidents Per 100,000 Hub Miles = Number of Traffic Accidents / (Hub Miles / 100,000)



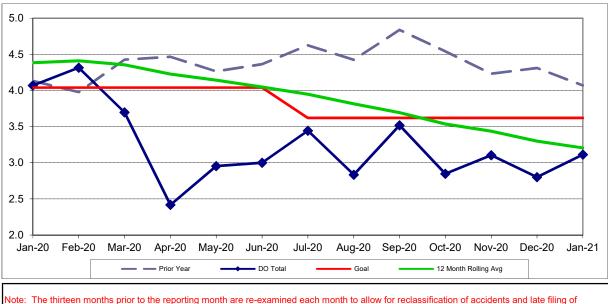
Bus Traffic Accidents per 100,000 Hub Miles - Systemwide Trend



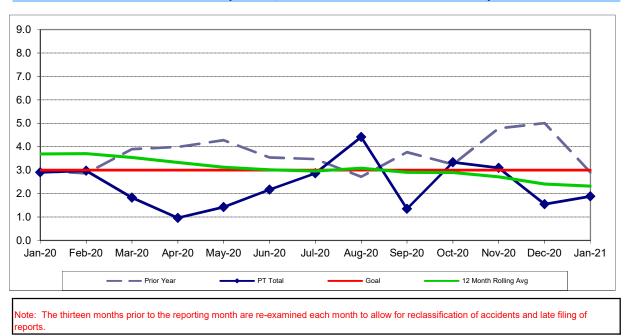
Note: The thirteen months prior to the reporting month are re-examined each month to allow for reclassification of accidents and late filing of reports.

Remaining Below the Goal line is the target.

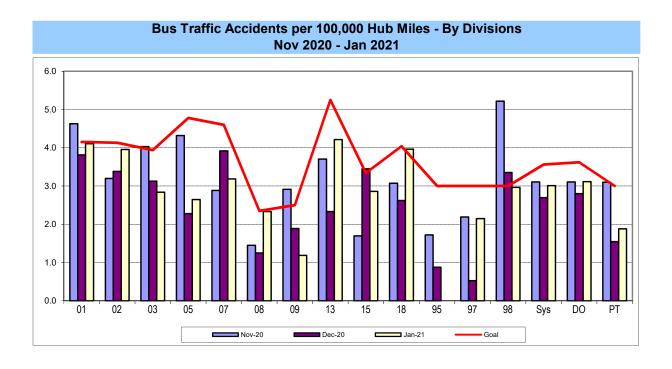
#### Bus Traffic Accidents per 100,000 Hub Miles - Directly Operated



Note: The thirteen months prior to the reporting month are re-examined each month to allow for reclassification of accidents and late filing of reports.



Bus Traffic Accidents per 100,000 Hub Miles - Purchased Transportation

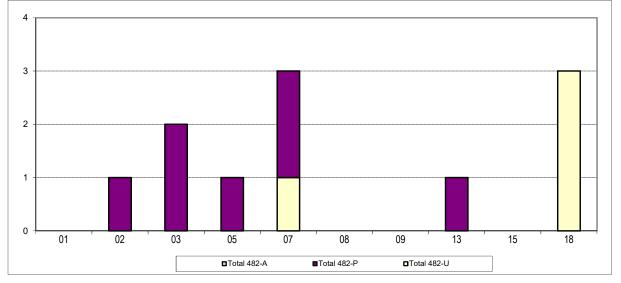


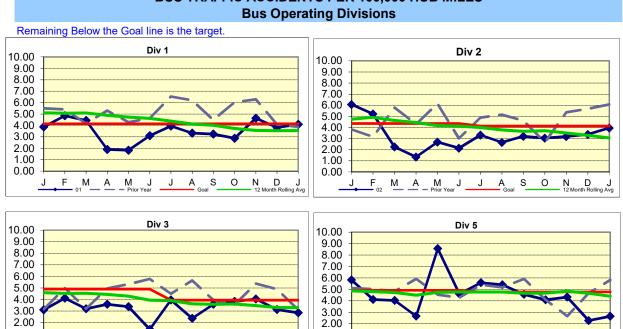
## Number of 482 Accidents in Vehicle Accident Management System (VAMS) Download by Avoidable (A), Pending (P) or Unavoidable (U) **Bus Operating Divisions - Jan 2021**

Definition: Number of accidents that are coded as Alleged Accidents (482).

Calculation: Number of accidents in prior 13 months coded 482 "alleged" in the categories of avoidable (A), pending investigation (P) or unavoidable (U).

NOTE: Alleged Accidents (482) are not included in the bus traffic accident ratio.





2.00 1.00

0.00

J

F M A M J

J

A S

0

N D J

# **BUS TRAFFIC ACCIDENTS PER 100,000 HUB MILES**

1.00

0.00

J

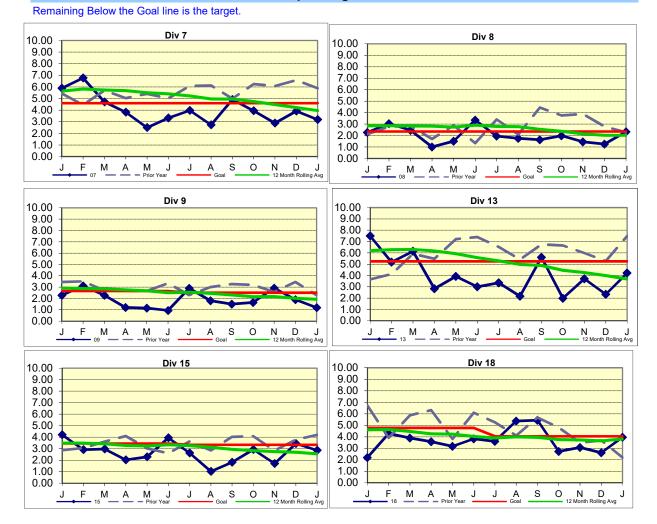
F\_\_\_\_05

М

A M J

J A s 0 N 12 Month D J

#### BUS TRAFFIC ACCIDENTS PER 100,000 HUB MILES Bus Operating Divisions

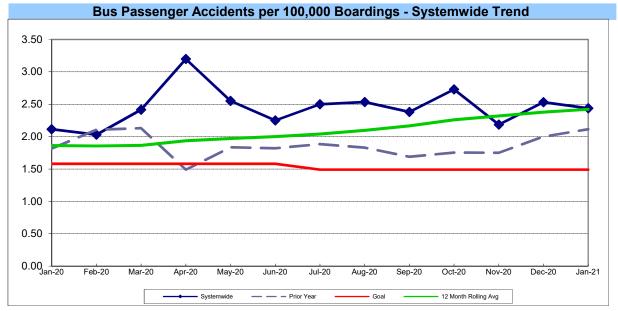


Page 29

#### **BUS PASSENGER ACCIDENTS PER 100,000 BOARDINGS**

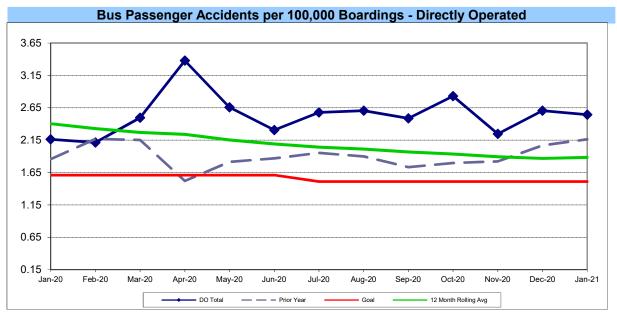
Definition: Number of Passenger Accidents for every 100,000 boardings.

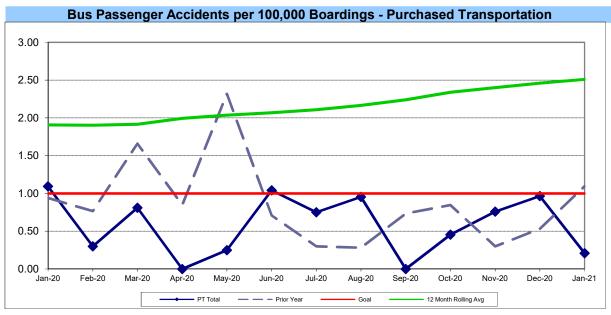
**Calculation:** Passenger Accidents Per 100,000 Boardings = Number of Passenger Accidents / (Boardings / by 100,000)

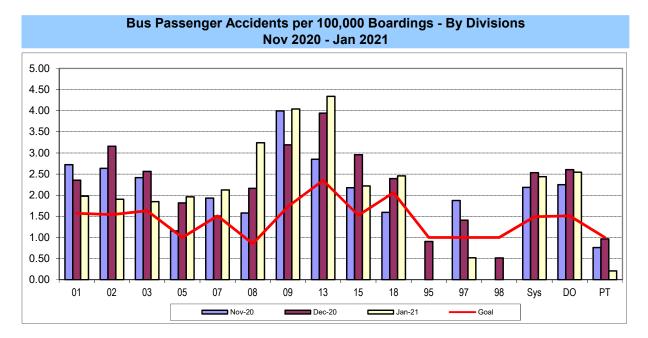


Remaining Below the Goal line is the target.

Note: The thirteen months prior to the reporting month are re-examined each month to allow for reclassification of accidents and late filing of reports.





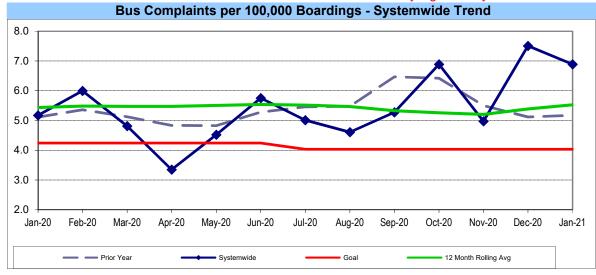


# **CUSTOMER SATISFACTION**

#### **COMPLAINTS PER 100,000 BOARDINGS**

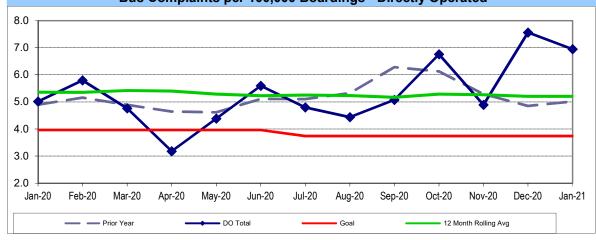
Definition: Number of customer complaints per 100,000 boardings.

**Calculation:** Customer complaints per 100,000 Boardings = Complaints/(Boardings/100,000) Due to the COVID-19-related reduction in service some KPIs will vary significantly.

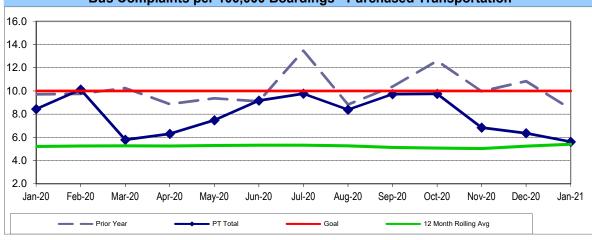




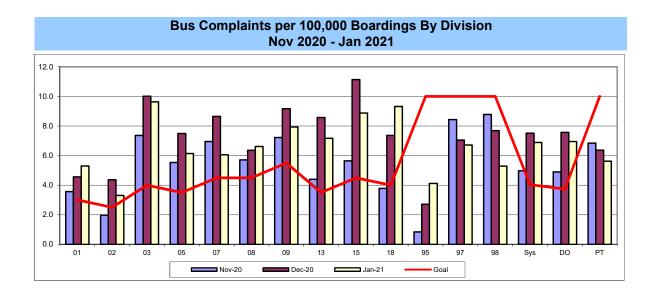
Bus Complaints per 100,000 Boardings - Directly Operated



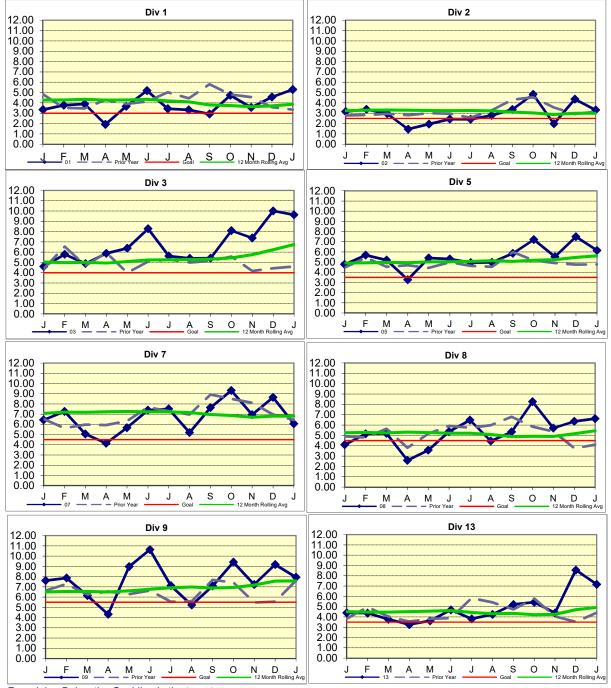
Remaining Below the Goal line is the target.

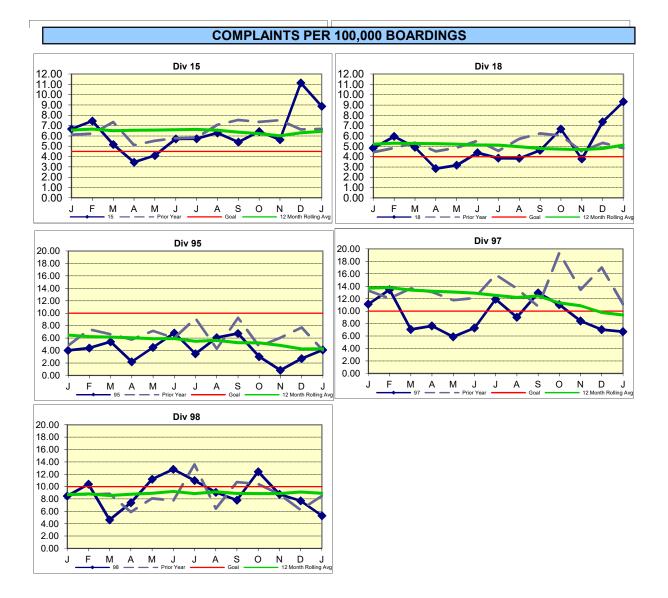


Bus Complaints per 100,000 Boardings - Purchased Transportation



#### **COMPLAINTS PER 100,000 BOARDINGS**





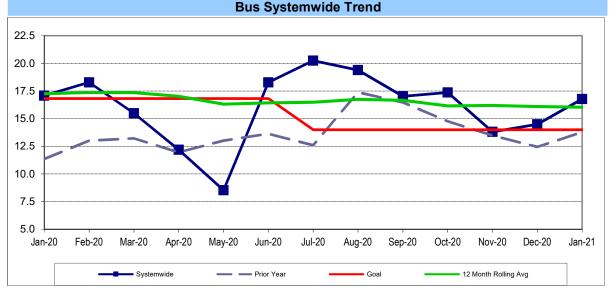
# WORKERS COMPENSATION CLAIMS

## New Workers Compensation Claims per 200,000 Exposure Hours

**Definition:** Number of New Bus Workers Compensation Indemnity and Medical Claims filed per 200,000 Bus exposure hours.

**Calculation:** New reported workers' compensation indemnity and medical claims filed per 200,000 Exposure Hours = New Claims/(Exposure Hours/200,000)

Due to the COVID-19-related reduction in service some KPIs will vary significantly.



Transportation & Maintenance Performance combined.

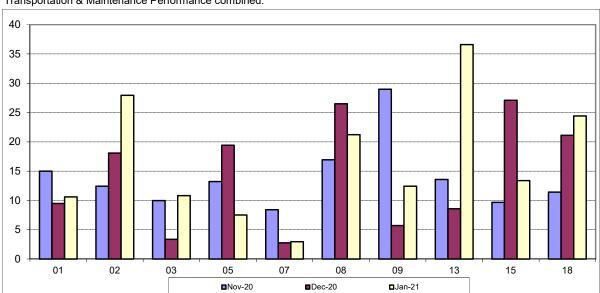
Remaining Below the Goal line is the target.

#### NEW CLAIMS PER 200,000 EXPOSURE HOURS - MONTH BY BUS DIVISION

**Definition:** Number of New Bus Workers Compensation Indemnity and Medical Claims filed per 200,000 Bus exposure hours.

**Calculation:** New reported workers' compensation indemnity and medical claims filed per 200,000 Exposure Hours = New Claims/(Exposure Hours/200,000)





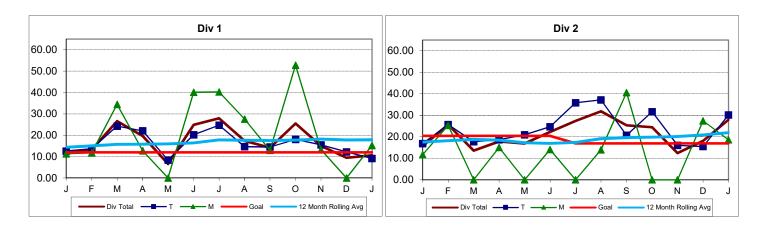
Transportation & Maintenance Performance combined.

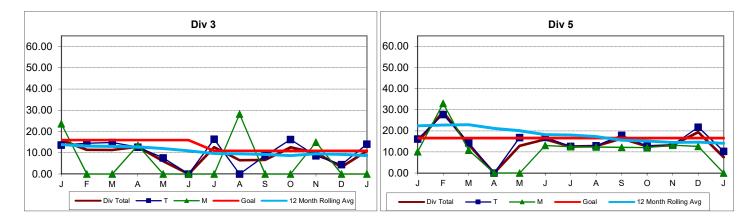
## NEW WORKERS' COMPENSATION CLAIMS FILED PER 200,000 EXPOSURE HOURS Bus Operating Divisions

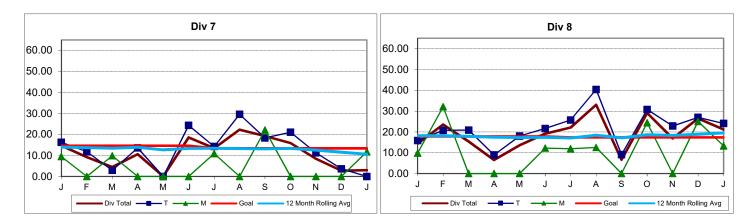
**Definition:** Number of new reported Workers Compensation Indemnity and Medical claims filed per 200,000 exposure hours. This indicator measures safety.

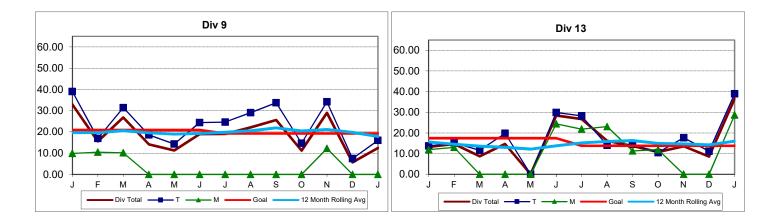
**Calculation:** New reported Workers' Compensation Indemnity and Medical claims filed per 200,000 Exposure Hours = New Claims/(Exposure Hours/200,000)

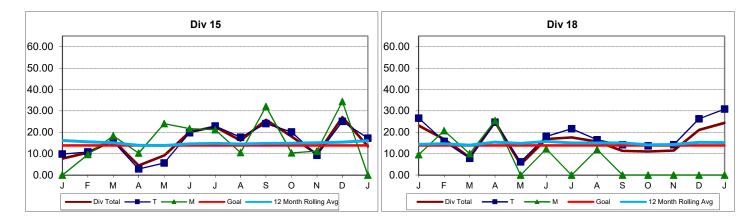
Due to the COVID-19-related reduction in service some KPIs will vary significantly.









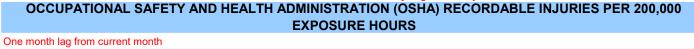


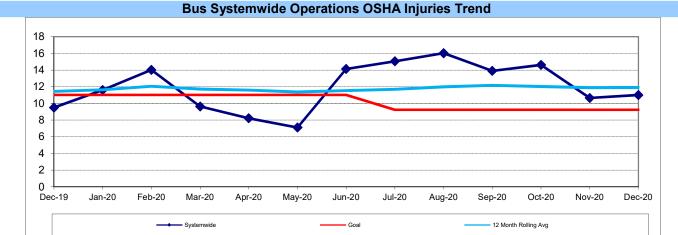
# **OSHA INJURIES FILED PER 200,000 EXPOSURE HOURS**

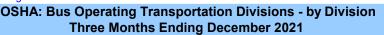
Systemwide and Bus Operating Divisions

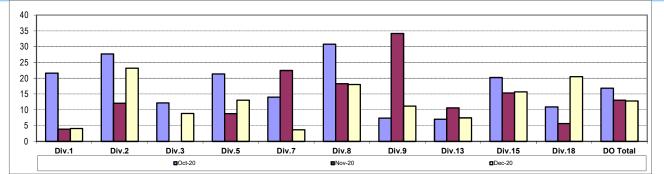
**Definition:** Work-related injuries and illnesses that result in: death, loss of consciousness, days away from work, restricted work activity or job transfer, or medical treatment beyond first aid which are filed per 200,000 exposure hours.

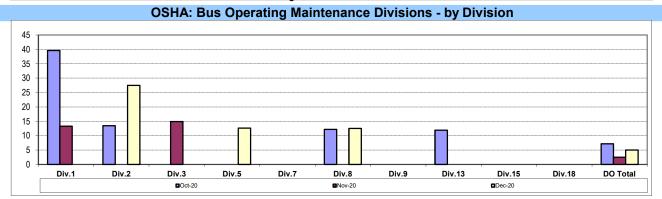
**Calculation:** New OSHA Injuries filed per 200,000 Exposure Hours = New Injuries /(Exposure Hours/200,000) Due to the COVID-19-related reduction in service some KPIs will vary significantly.



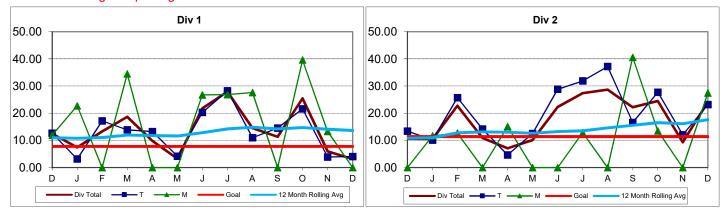


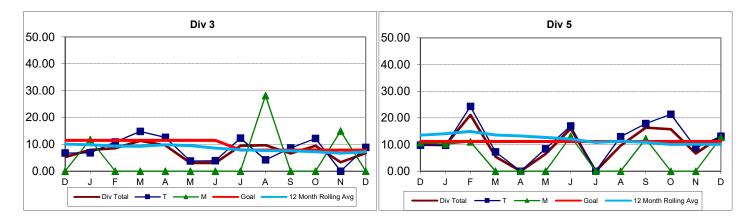


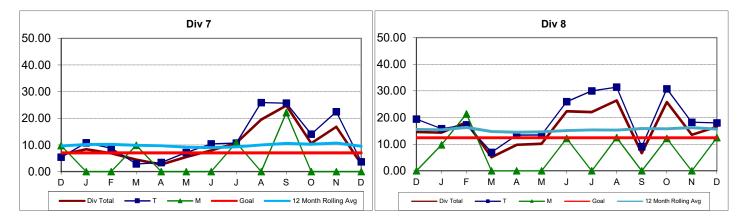




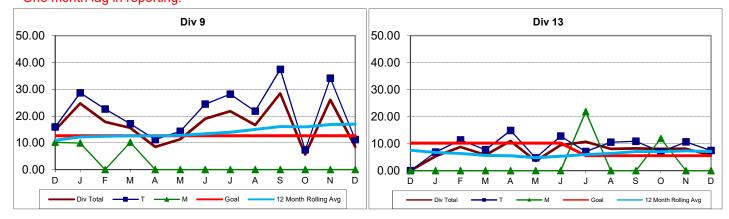
#### Remaining below the goal line is the target. One month lag in reporting.

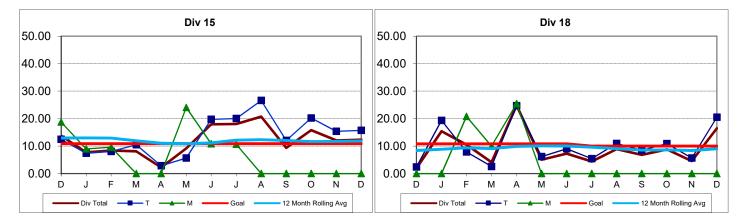






Remaining below the goal line is the target. One month lag in reporting.





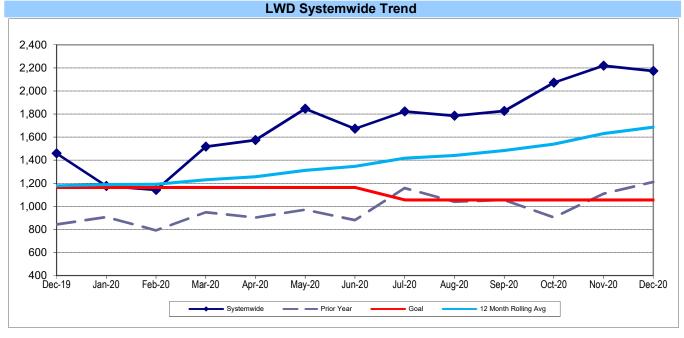
## NUMBER OF LOST WORK DAYS PAID PER 200,000 EXPOSURE HOURS Systemwide and Bus Operating Divisions

**Definition:** Number of paid working days lost due to employees workers' compensation injuries each month per 200,000 exposure hours. This indicator measures use of Transitional Duty Program.

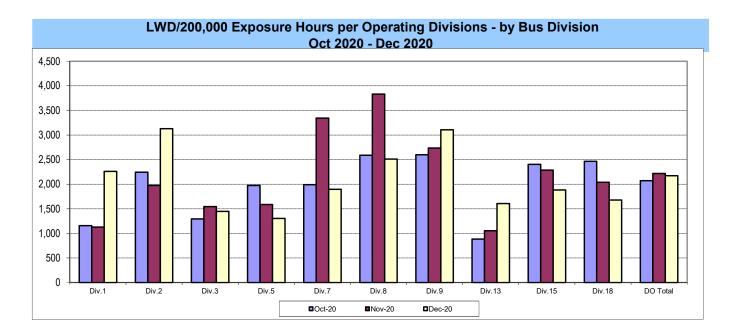
**Calculation:** : (Total Temporary Disability Benefit Payments / Estimated TD Benefit Rate) x (5/7) / (Number of Exposure Hours / 200,000)

Due to the COVID-19-related reduction in service some KPIs will vary significantly.

One month lag from current month



One month lag from current month

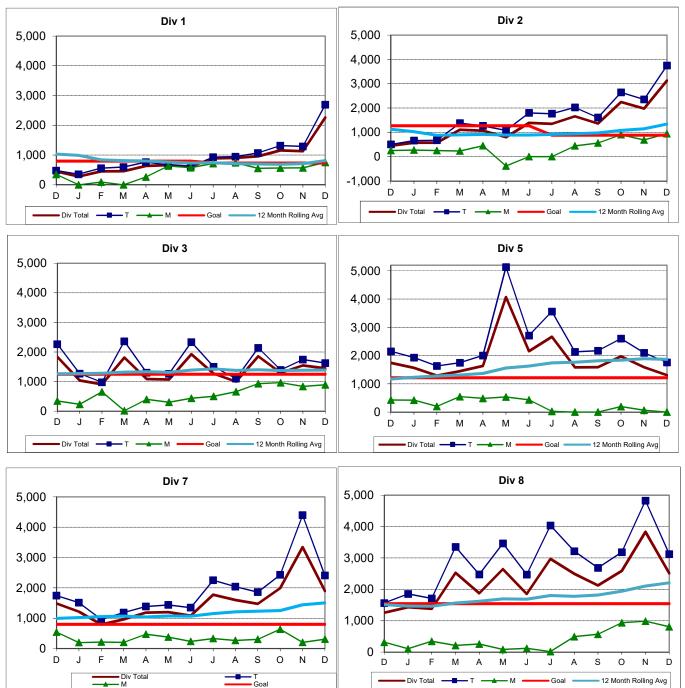


Page 42

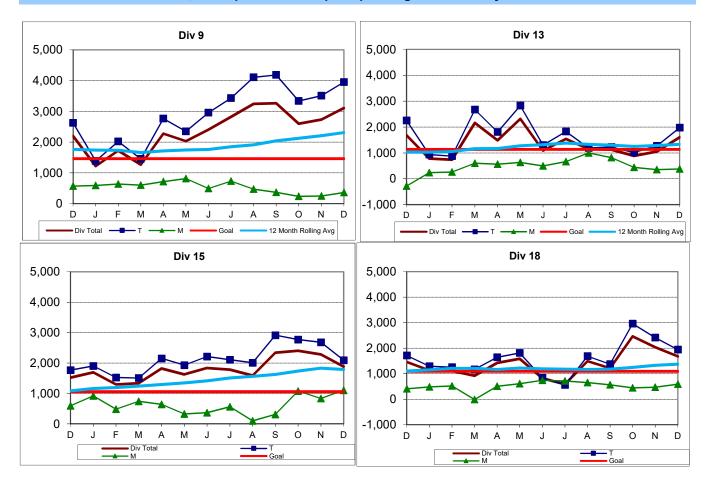
# LWD/200,000 Exposure Hours per Operating Divisions - by Bus Division

One month lag in reporting.

```
Lower is better.
```



# LWD/200,000 Exposure Hours per Operating Divisions - by Bus Division



One month lag in reporting.

#### "Excellence in Service and Support" PERFORMANCE INCENTIVE PROGRAM

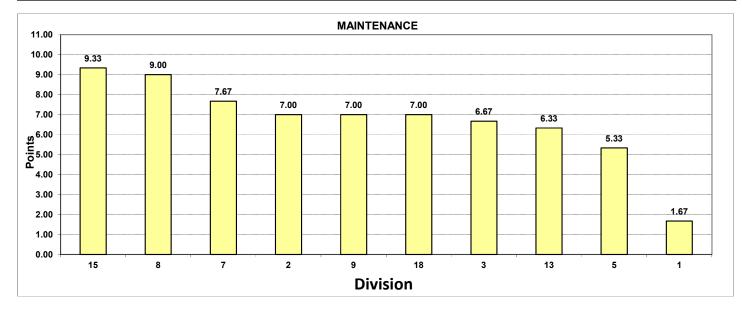
#### Monthly Calculations - Jan 2021 Metro Bus - Maintenance

Definition: A performance awareness program designed to increase productivity and efficiency.

**Calculation:** At the start of the fiscal year, each Division is given a unique goal for each Key Performance Indicator (KPI). Every month, the difference between each Division's performance and goal is calculated for each KPI. Divisions are ranked 1 through 10 based on how much better they performed in relation to their own unique goal. If the difference between the performance and the goal is the most favorable variance, the Division is given a score of 10 for that KPI. The lowest performing Division is given a score of 1. For the final ranking, each score is weighted based on the weight of the KPI. The final ranking is calculated by aggregating the weighted scores to give a total score out of a total possible maximum of 10 points.

Due to the COVID-19-related reduction in service some KPIs will vary significantly.

Maintenance											
	Weight	1	2	3	5	7	8	9	13	15	18
Miles Between Tota	al										
Road Calls	33.3%	3,452	8,087	5,234	3,865	4,033	6,286	5,565	2,867	5,202	4,174
Target		4,100	5,400	4,380	4,308	3,902	5,400	5,000	3,000	4,310	4,200
Points		1	10	8	2	5	7	6	3	9	4
Past Due PMPs	33.3%	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Target	00.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Points		1	10	10	10	10	10	10	10	10	10
Bus Cleanliness	33.3%	7.863	6.968	7.753	8.005	8.511	8.837	8.379	8.453	8.595	8.468
Target		9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000
Points		3	1	2	4	8	10	5	6	9	7
Totals		1.67	7.00	6.67	5.33	7.67	9.00	7.00	6.33	9.33	7.00
Ranking		10	4	7	9	3	2	4	8	1	4
FINAL	Maintenance Division Ranking (Sorted)										
RANKING	DIV.	15	8	7	2	9	18	3	13	5	1
	Score	9.33	9.00	7.67	7.00	7.00	7.00	6.67	6.33	5.33	1.67
	Rank	1	2	3	4	4	4	7	8	9	10



## Monthly Calculations - Jan 2021 Metro Bus - Transportation

#### Definition: A performance awareness program designed to increase productivity and efficiency.

**Calculation:** At the start of the fiscal year, each Division is given a unique goal for each Key Performance Indicator (KPI). Every month, the difference between each Division's performance and goal is calculated for each KPI. Divisions are ranked 1 through 10 based on how much better they performed in relation to their own unique goal. If the difference between the performance and the goal is the most favorable variance, the Division is given a score of 10 for that KPI. The lowest performing Division is given a score of 1. For the final ranking, each score is weighted based on the weight of the KPI. The final ranking is calculated by aggregating the weighted scores to give a total score out of a total possible maximum of 10 points.

Transportation											
	Weight	1	2	3	5	7	8	9	13	15	18
ISOTP On-Time	25%	82.206%	76.286%	72.569%	75.192%	77.914%	84.050%	84.889%	77.781%	81.085%	81.916%
Target		78.070%	78.070%	78.070%	78.070%	78.070%	80.000%	80.000%	78.070%	78.070%	78.070%
Points		9	3	1	2	5	8	10	4	6	7
ISOTP Early	25%	5.354%	3.144%	9.054%	3.419%	5.518%	7.337%	5.339%	6.366%	3.527%	2.228%
Target	2070	2.000%	2.000%	2.000%	2.000%	2.000%	2.000%	2.000%	2.000%	2.000%	2.000%
Points		5	9	1	8	4	2	6	3	7	10
Traffic Accident											
Ratio	25%	4.105	3.957	2.840	2.646	3.185	2.333	1.185	4.213	2.860	3.964
Target		4.150	4.130	3.940	4.780	4.600	2.350	2.500	5.250	3.340	4.040
Points		2	4	7	9	8	1	10	6	5	3
Complaints/100K											
Boardings	25%	3.321	1.903	6.332	3.650	4.566	4.321	5.769	4.340	4.917	4.839
Target		2.000	1.500	2.400	2.100	2.600	2.100	3.000	2.000	2.200	2.300
Points		9	10	1	8	7	5	6	3	2	4
Totals		6.25	6.50	2.50	6.75	6.00	4.00	8.00	4.00	5.00	6.00
Ranking		4	3	10	2	5	8	1	8	7	5
FINAL	Transportation Division Ranking (Sorted)										
RANKING	DIV.	9	5	2	1	7	18	15	8	13	3
	Score	8.00	6.75	6.50	6.25	6.00	6.00	5.00	4.00	4.00	2.50
	Rank	1	2	3	4	5	5	7	8	8	10

