

# Rail Fleet Services Monthly Report February 2018



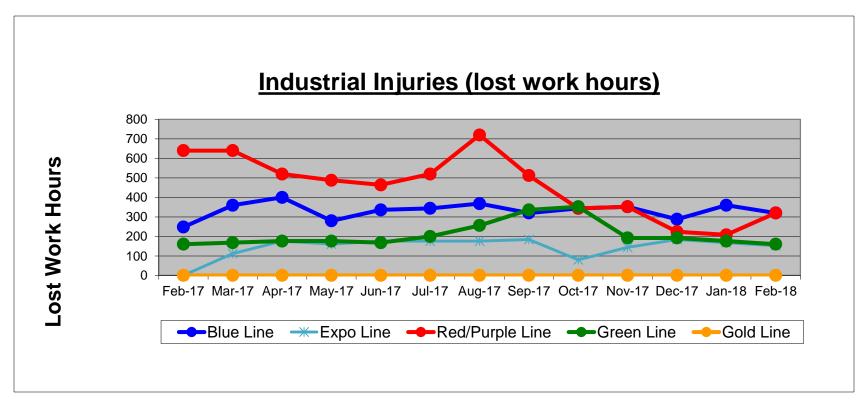
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### Industrial Injuries – Lost Work Hours February 2017-2018

	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	13-Month Period
Blue Line	248	360	400	280	336	344	368	320	344	352	288	360	320	4,320
Expo Line	0	112	176	160	176	176	176	184	80	144	184	168	152	1,888
Red/Purple Line	640	640	520	488	464	520	720	512	344	352	224	208	320	5,952
Green Line	160	168	176	176	168	200	256	336	352	192	192	176	160	2,712
Gold Line	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	1,048	1,280	1,272	1,104	1,144	1,240	1,520	1,352	1,120	1,040	888	912	952	14,872





# Rail Vehicle Accidents & Major Incidents February 2017-2018

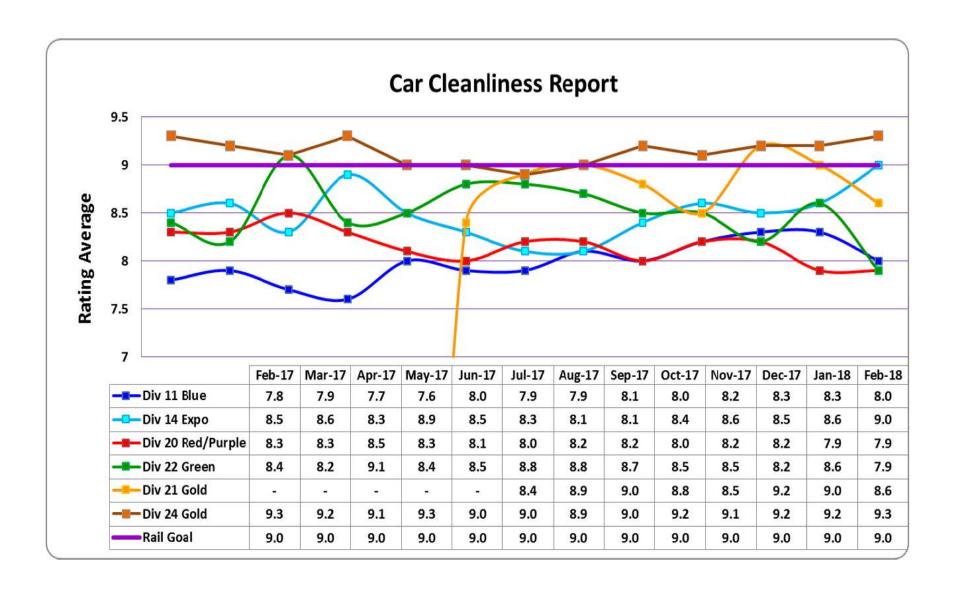
Repair Costs	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	13-Month Period
Blue Line	\$0	\$1,427	\$2,586	\$0	\$15,084	\$632	\$268	\$3,683	\$31,202	\$1,016	\$344	\$0	\$120	\$56,362
Expo Line	\$1,930	\$0	\$1,420	\$0	\$0	\$0	\$191	\$0	\$25,571	\$597	\$321	\$0	\$563	\$30,593
Red/Purple Line	\$1,032	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$741	\$1,773
Green Line	\$0	\$0	\$334	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$334
Gold Line	\$15,829	\$1,871	\$191	\$2,692	\$0	\$0	\$0	\$1,343	\$5,751	\$0	\$680	\$0	\$0	\$28,357
Totals	\$18,791	\$3,298	\$4,531	\$2,692	\$15,084	\$632	\$459	\$5,026	\$62,524	\$1,613	\$1,345	\$0	\$1,424	\$117,419

Rail Vehicle Accident Costs - February 2018											
Date	Incident #	Problem Code	Incident Description	Repai	ir Cost						
Metro Blu	e Line										
2/10/18	2968086	Train vs. Vehicle	A 10-73 was reported at 19th St., Track 2 SB.	\$	120						
			Metro Blue Line Total	\$	120						
Metro Exp	oo Line										
2/6/18	2966566	Train vs. Pedestrian	A 10-72 was reported at Jefferson Station, Track 3, SB.	\$	563						
			Metro Expo Line Total	\$	563						
Metro Red	d Line										
2/16/18	2970306	Train vs. Other	A 10-71 was reported, train hit the metal trash can at 7th & Metro.	\$	741						
			Metro Red Line Total	\$	741						
			Grand Total	\$	1,424						
	<b>10-71</b> = Train	vs. Object/ 10-72 = Train vs	s. Pedestrian/ 10-73 = Train vs. Vehicle/ 10-74 = Train vs. MTA Vehicle/ 10-75 = Derailme	nt							

Note: Repair costs are only the expenses captured during the time period of the report. Actual costs may be significantly higher, if repairs are spread out over several months.



### Rail Vehicle – Car Cleanliness February 2017-2018

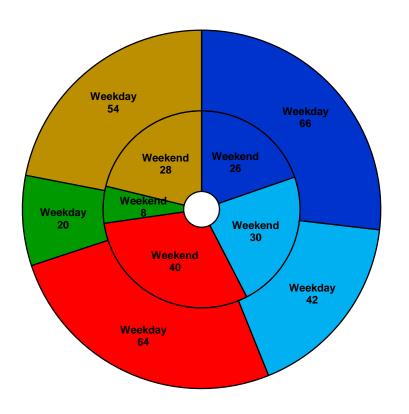




# Service Delivery February 2018

#### February 2018 - Service Delivery

Blue Line Fleet Size: 91												
<u>Pull Out</u> Weekday: Weekend:	Vehicles Required 66 26	<u>Average</u> <u>Available</u> 66 50	<u>% Up (Down)</u> 100% 192%									
Monthly Mileage:	449,723											
Expo Line Fleet	Size: 55											
		<u>Average</u>										
Pull Out	Vehicles Required	<u>Available</u>	<u>% Up (Down)</u>									
Weekday:	42	43	102%									
Weekend:	30	38	127%									
Monthly Mileage:	280,143											
Red/Purple Line	Fleet Size: 98											
_		<u>Average</u>										
<u>Pull Out</u>	Vehicles Required	<u>Available</u>	<u>% Up (Down)</u>									
Weekday:	64	72	113%									
Weekend:	40	62	155%									
Monthly Mileage:	546,500											
Green Line Flee	t Size: 35											
Pull Out	Vakialaa Daawinad	<u>Average</u> Available	0/ Lla (Davis)									
Weekday:	Vehicles Required 20	Available 24	<u>% Up (Down)</u> 120%									
Weekend:	8	23	288%									
vveekend.	9	25	20070									
Monthly Mileage:	190,424											
Gold Line Fleet	Size: 71											
5 " 6 '		<u>Average</u>	0/ 11 /5									
Pull Out	Vehicles Required	<u>Available</u>	<u>% Up (Down)</u>									
Weekday (Div 21):	10	10	100%									
Weekday (Div 24):	44	45 44	102%									
Weekend (Div 24):	28	44	157%									
*Monthly Mileage:	566,900											
* Gold Line monthly n	nileage includes Divisio	on 21 and 24.										
1												



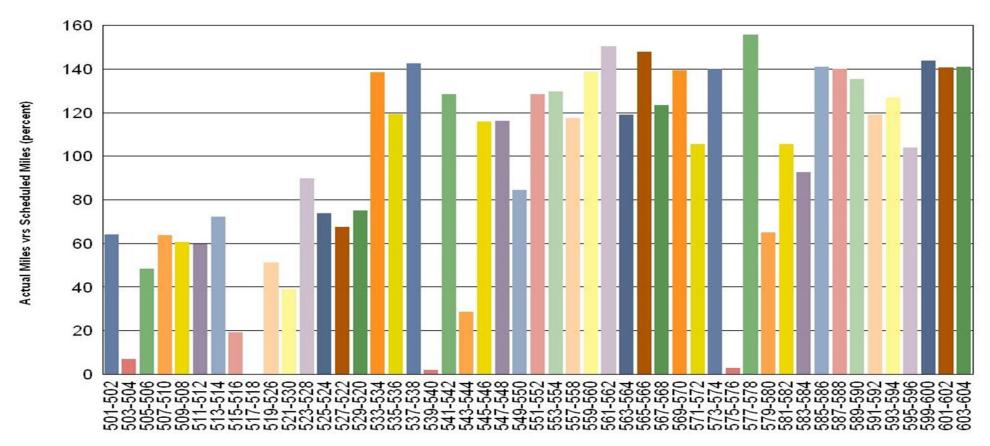
■Blue Line ■Expo Line ■Red/Purple Line ■Green Line ■Gold Line

NOTES: Standby trains not included in vehicle requirements



### Vehicle Utilization February 2018

#### **Metro Red/Purple Line (98 Cars)**



#### **Red/Purple Line:**

The following cars were in service below 40% due to:

Car # 503-504 – CB1 Tripped - PCE Blower Motor / Propulsion Fault

Car # 515-516 - CB1 Tripped - PCE Blower Motor / Door Overhaul Campaign

Car # 517-518 - CB1 Tripped - PCE Blower Motor

Car # 521-530 - Propulsion & Service Brake Fault / 90K Inspections

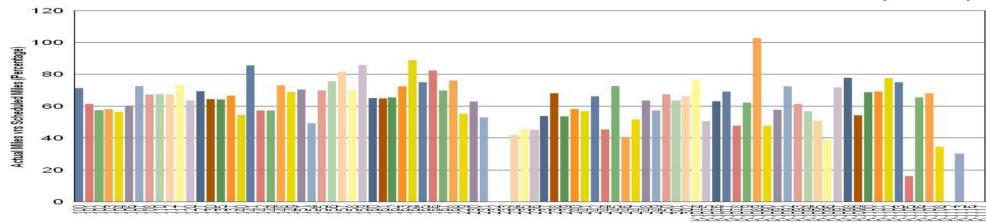
Car # 539-540 - GTO Shot Through / Propulsion Fault / Friction Brake Overhaul Campaign

Car # 575-576 – Interior Renovation Campaign



### Vehicle Utilization February 2018





Blue Line: The following cars were in service below 40%

due to:

Car # 232 - Off the Property for Midlife Overhaul

Car # 233 - Door Operator Assembly Overhaul

Car # K1096 - ATP Fault Work Order

Car # K1105 – B-end Propulsion Fault / B-end Truck

Replacement

Car # K1108 – A-end Protran Work Order / No Movement Work Order

Car # K1112 – CA Accepted, Still at Green Line due to Mainline Closure

Car # K1113 – Propulsion Fault Work Order

Car # K1116 – CA Accepted, Still at Green Line due to Mainline Closure

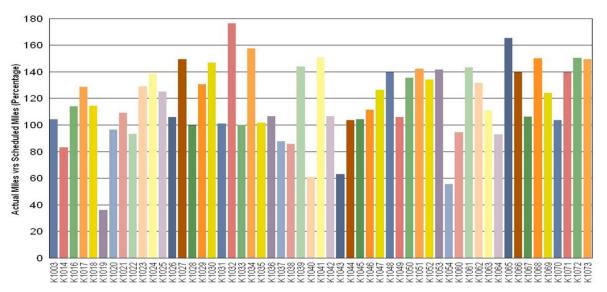
Car # K1117 – CA Accepted, Still at Green Line due to Mainline Closure

**Expo Line:** The following car was in service below 40% due to:

Car # K1019 – Propulsion Issues (EEIM Module)



#### **Metro Expo Line (55 Cars)**



### Vehicle Utilization February 2018

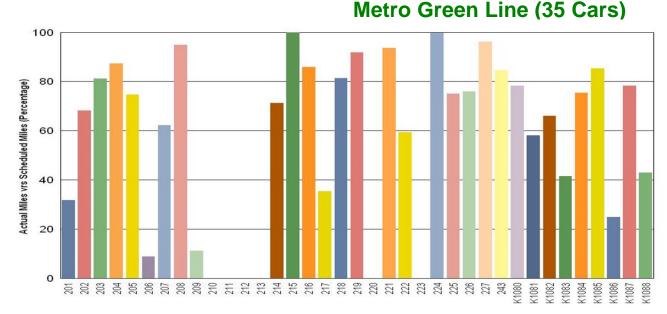
#### **Green Line:**

The following cars were in service below 40%: Cars # 201, 206, 209, 212, 213, 220, 223, K1086 - Due to the Tie-in / Closure of the Mainline, the Mileage has not been accumulating.

Car # 210 - Pantograph Damage Repair

Car # 211 – Off the Property for Midlife Overhaul

Car # 217 - Exterior Paint Rehab



#### **Metro Gold Line (71 Cars)**

#### **Gold Line:**

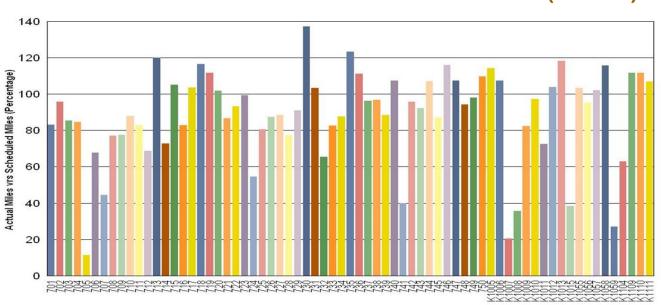
The following cars were in service below 40% due to:

Car # 705 – 120K PM Inspection & Mileage Hold Car # K1007 – 120K PM Inspection & Articulation Floor Repair

**Car # K1008** – Propulsion Module Repair & Warranty Modifications

Car # K1015 – 120K PM Inspection, Flat Wheels & Warranty Modifications

Car # K1059 - Flat Wheels & Warranty Modifications

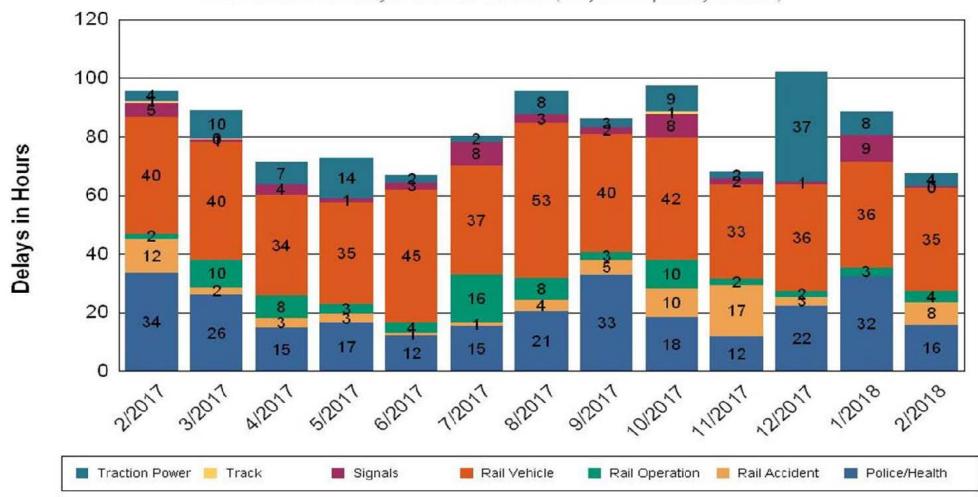




### All Train Delays (Hours) February 2017-2018

### **All Train Delays**

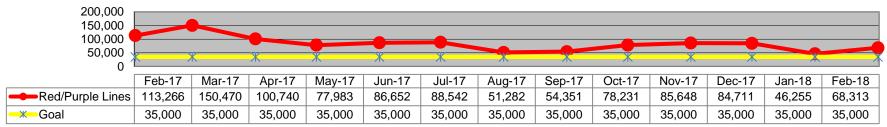
Totals Include the delay to all trains involved (not just the primary incident)



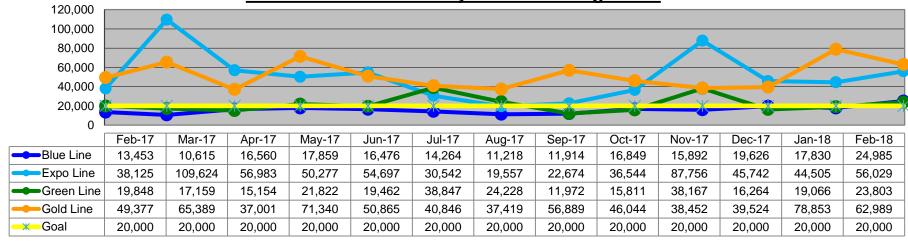


### Mean Miles Between Major Failures (MMBF) February 2017-2018

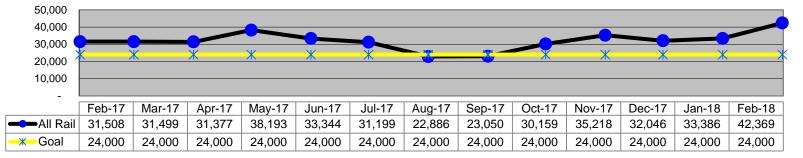
#### Mean Miles Between Major Failures - Heavy Rail



#### Mean Miles Between Major Failures - Light Rail



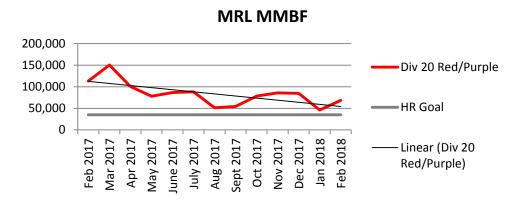
#### Mean Miles Between Major Failures (all)

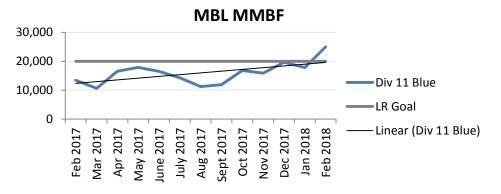


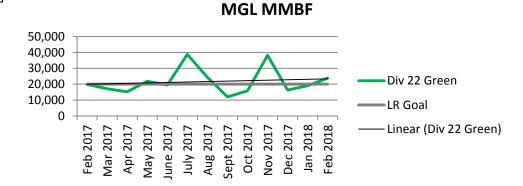


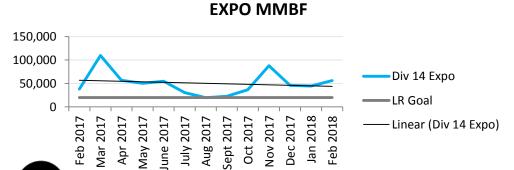
### MMBF by Division February 2017-2018

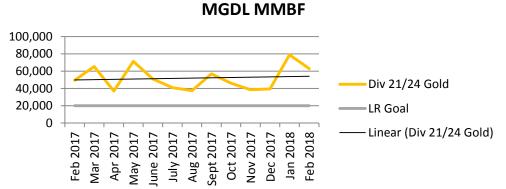
	Div 11	Div 14	Div 20	Div 22	Div 21/24		
Month	Blue	Ехро	Red/Purple	Green	Gold	LR Goal	HR Goal
Feb 2017	13,453	38,125	113,266	19,848	49,377	20,000	35,000
Mar 2017	10,615	109,624	150,470	17,159	65,389	20,000	35,000
Apr 2017	16,560	56,983	100,740	15,154	37,001	20,000	35,000
May 2017	17,859	50,277	77,983	21,822	71,340	20,000	35,000
June 2017	16,476	54,697	86,652	19,462	50,865	20,000	35,000
July 2017	14,264	30,542	88,542	38,847	40,846	20,000	35,000
Aug 2017	11,218	19,557	51,282	24,228	37,419	20,000	35,000
Sept 2017	11,914	22,674	54,351	11,972	56,889	20,000	35,000
Oct 2017	16,849	36,544	78,231	15,811	46,044	20,000	35,000
Nov 2017	15,892	87,756	85,648	38,167	38,452	20,000	35,000
Dec 2017	19,626	45,742	84,711	16,264	39,524	20,000	35,000
Jan 2018	17,830	44,505	46,255	19,066	78,853	20,000	35,000
Feb 2018	24,985	56,029	68,313	23,803	62,989	20,000	35,000



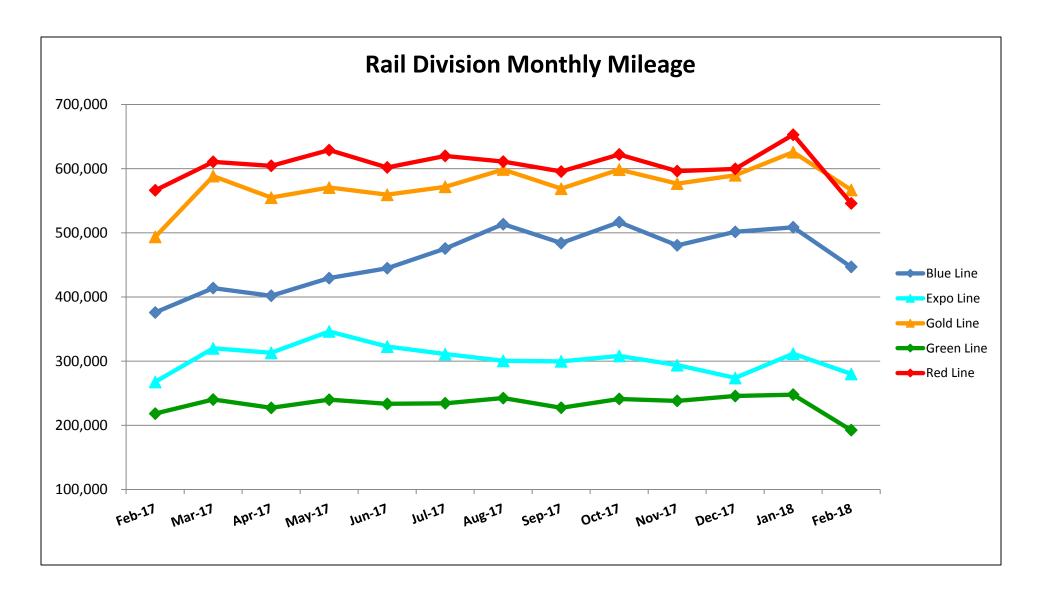








## Mileage Between Data Range (by month) February 2017-2018

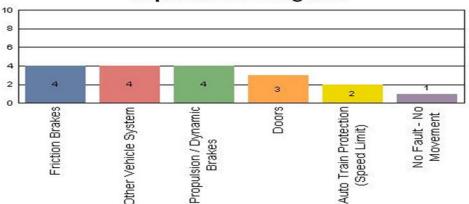




### **Top Incident Categories** February 2018

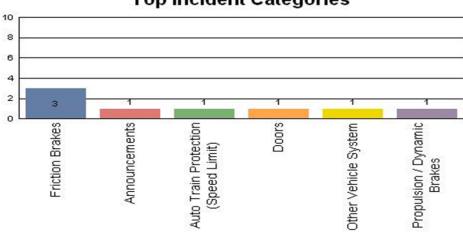
#### Metro Blue Line (Div 11)

#### **Top Incident Categories**



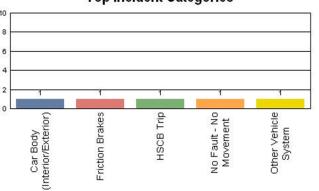
#### Metro Red/Purple Line (Div 20)

#### **Top Incident Categories**

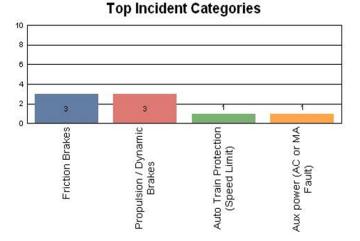


#### **Metro Expo Line (Div 14)**

#### **Top Incident Categories**

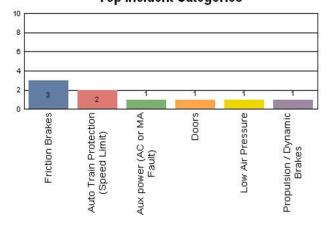


#### **Metro Green Line (Div 22)**



#### Metro Gold Line (Div 21 & Div 24)

#### **Top Incident Categories**

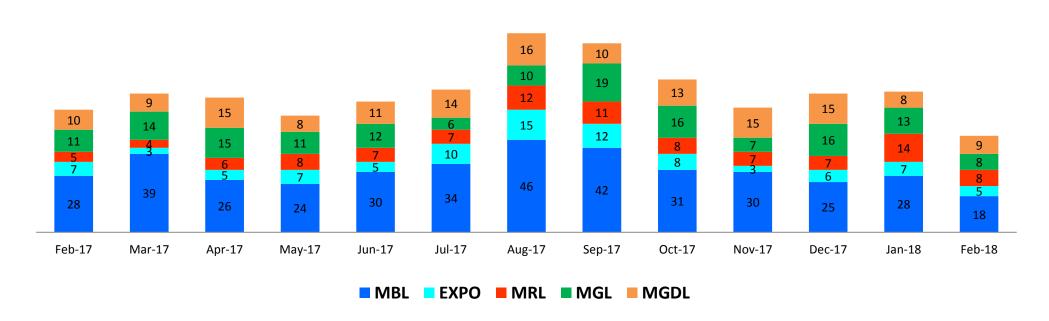




Major Incident: When a train does not complete its scheduled run or is more than 5 minutes late of its scheduled arrival time.

# Major Incidents February 2017-2018

### **Numbers of Major System Failures (by Line)**



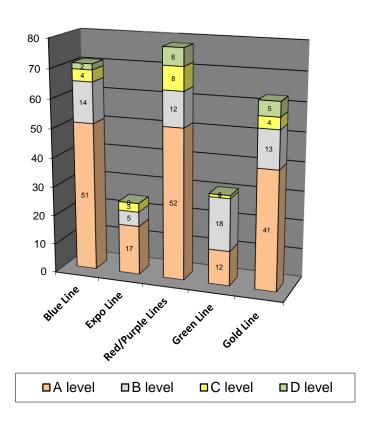


# Preventive Maintenance Compliance February 2017-2018

PM Compliance	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18
Blue Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Expo Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Red/Purple Lines	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Green Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Gold Line	100%	100%	100%	100%	98%	100%	100%	100%	100%	100%	100%	99%	100%

Number of Preventive Maintenance Inspections - February 2018												
Line	A level	B level	C level	D level	Totals							
Blue Line	51	14	4	2	71							
Expo Line	17	5	3	0	25							
Red/Purple Lines	52	12	8	6	78							
Green Line	12	18	1	0	31							
Gold Line	41	13	4	5	63							
Totals:	173	62	20	13	268							

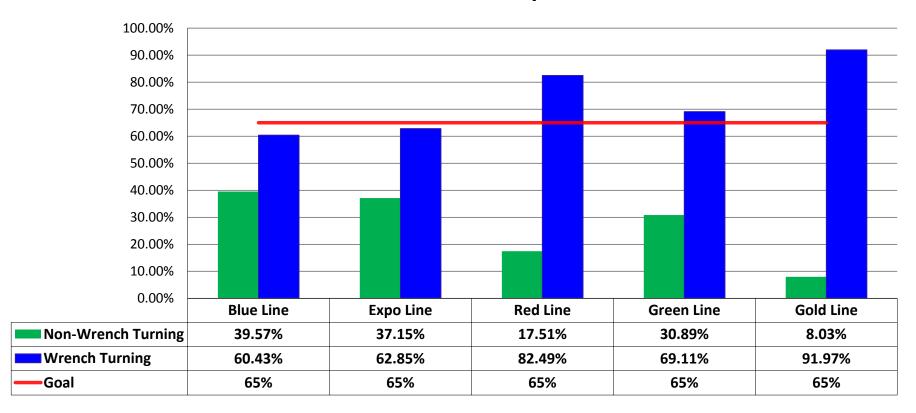
Explanation of PM	Inspection levels	Miles									
Line	Туре	A level	B level	C level	D level						
Blue/Expo Lines	P865/P2020	5,000	15,000	30,000	60,000						
Blue/Expo Lines	P2000	7,500	22,500	45,000	90,000						
Red/Purple Lines	A650	7,500	22,500	45,000	90,000						
Green Line	P2000	7,500	22,500	45,000	90,000						
Gold Line	P2550	10,000	30,000	60,000	120,000						
Gold/Expo Lines	P3010	10,000	30,000	60,000	120,000						





## RFS Leader Wrench Turning February 2018

RFS - Leader Wrench Turning February 2018

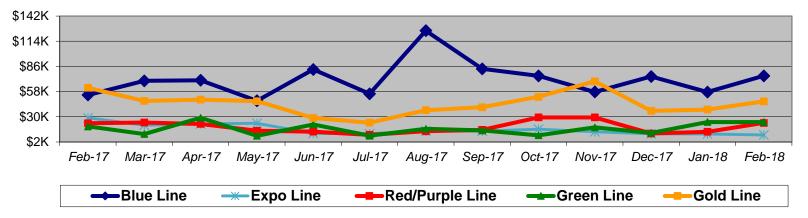


Notes: Labor hours contributed by Maint Specialist Leader, Rail Body/Paint Repair Leader, and Maint Specialist Temporary Leader



## Vandalism & Graffiti Report February 2017-2018

	Graffiti Costs														
	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	13-Month Period	
Blue Line	\$54K	\$70K	\$71K	\$48K	\$83K	\$56K	\$126K	\$83K	\$75K	\$58K	\$75K	\$57K	\$75K	\$930K	
Expo Line	\$29K	\$21K	\$22K	\$23K	\$11K	\$11K	\$14K	\$14K	\$16K	\$13K	\$11K	\$11K	\$10K	\$206K	
Red/Purple Line	\$23K	\$24K	\$22K	\$14K	\$13K	\$10K	\$14K	\$15K	\$29K	\$29K	\$11K	\$13K	\$23K	\$242K	
Green Line	\$19K	\$11K	\$29K	\$9K	\$21K	\$9K	\$17K	\$15K	\$9K	\$18K	\$12K	\$24K	\$24K	\$217K	
Gold Line	\$62K	\$48K	\$49K	\$47K	\$29K	\$23K	\$37K	\$41K	\$52K	\$69K	\$37K	\$38K	\$47K	\$579K	
Totals:	\$187K	\$172K	\$193K	\$141K	\$158K	\$109K	\$208K	\$168K	\$182K	\$188K	\$146K	\$144K	\$180K	\$2,175K	



February 2018 Vandalism & Graffiti - All Rail													
	Qty		Labor	М	aterials		Totals						
Windows Replaced	85	\$	25,917	\$	38,948	\$	64,865						
Vandal Shields Replaced	643	\$	30,786	\$	13,813	\$	44,599						
Seats Cleaned	162	\$	655	\$	62	\$	717						
Seats Inserts Replaced	442	\$	17,325	\$	19,285	\$	36,610						
Graffiti Removal - Other	1,274	\$	17,659	\$	11,020	\$	28,679						
Repainting Panels	128	\$	4,035	\$	-	\$	4,035						
Totals	2,734	\$	96,377	\$	83,128	\$	179,505						



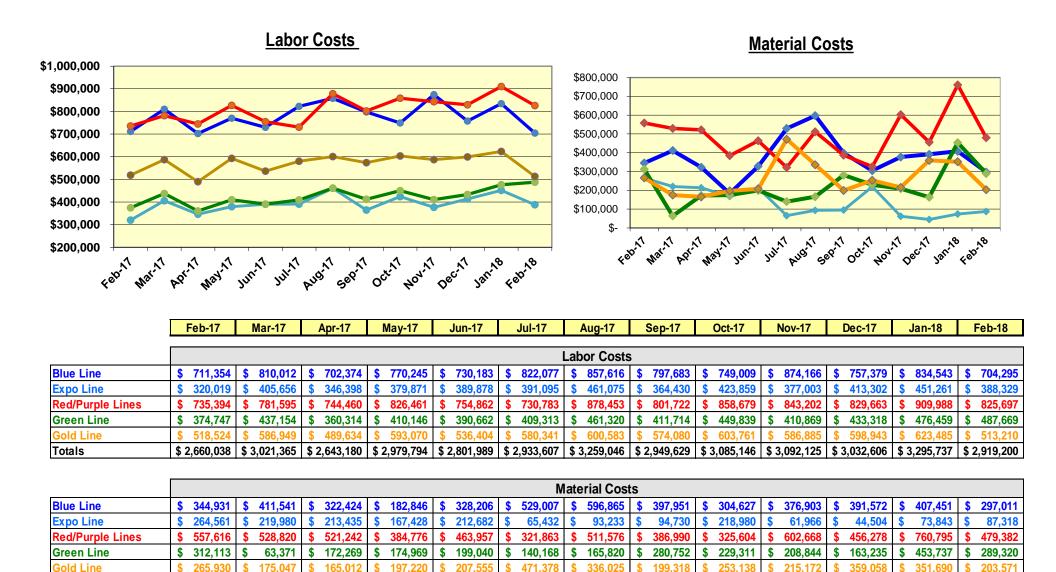
### Vandalism & Graffiti Pictures February 2018

### **Blue Line**





## Labor and Material Costs February 2017-2018



\$ 1,527,848 | \$ 1,703,519 | \$ 1,359,742

\$ 1,331,660 | \$ 1,465,553

\$ 1,107,239 | \$ 1,411,440

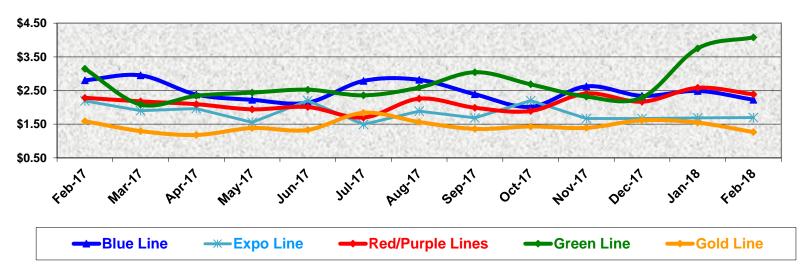


**Totals** 

# Cost Per Mile February 2017-2018

Cost per mile:	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Average
Blue Line	\$2.80	\$2.95	\$2.38	\$2.22	\$2.14	\$2.79	\$2.82	\$2.39	\$2.02	\$2.62	\$2.34	\$2.49	\$2.23	\$2.48
Expo Line	\$2.19	\$1.90	\$1.96	\$1.56	\$2.20	\$1.49	\$1.89	\$1.69	\$2.20	\$1.67	\$1.67	\$1.69	\$1.70	\$1.83
Red/Purple Lines	\$2.28	\$2.18	\$2.09	\$1.94	\$2.01	\$1.70	\$2.26	\$1.99	\$1.89	\$2.41	\$2.17	\$2.58	\$2.39	\$2.15
Green Line	\$3.15	\$2.08	\$2.34	\$2.44	\$2.52	\$2.36	\$2.59	\$3.04	\$2.68	\$2.32	\$2.29	\$3.75	\$4.08	\$2.74
Gold Line	\$1.59	\$1.29	\$1.18	\$1.38	\$1.33	\$1.84	\$1.56	\$1.36	\$1.43	\$1.39	\$1.62	\$1.55	\$1.26	\$1.45

### **Cost per Mile**





## ATU Absences vs. Overtime February 2018

ABSENCE TYPE and HOURS	3941 Blue	3947 Expo	3942 Red	3943 Green	3944 Gold	3948 Monrovia	Total
AWP-ABSENT W/O PERMISSION	-	_	_	8	-	8	16
BER-BEREAVEMENT	24	-	64	-	-	_	88
CTO-COMPENSATORY TIME OFF	323	262	454	100	94	221	1,453
CUT-EMPLOYEE LEAVES EARLY	1	2	0	-	-	-	3
DSL-DISABILITY LEAVE/LONG	120	184	-	640	72	448	1,464
EFH-EMG. FLOAT HOL.	16	8	48	16	-	8	96
ETO-EXCUSED TIME OFF	49	76	49	56	2	29	260
FMI-FAM IND INJURY	-	-	-	160	1	1	160
FML-FAMILY CARE LEAVE	736	240	176	40	72	325	1,589
FMS-FAMILY LEAVE SICK	142	_	138	40	8	227	555
HLF-HOLIDAY FLOATING	168	112	224	144	24	152	824
II-INDUSTRIAL INJURY	_	-	-	ı	-	24	24
JUR-JURY DUTY	_	_	8	1	1	8	16
LC1-LABOR CODE 233	366	104	303	180	48	146	1,147
LTI-OCCPIL/LONGTRM INJ LEAVE	320	152	320	160	-	1	952
OWP-OFF WITH PERMISSION	_	-	-	ı	8	12	20
RTO-REQUESTED TIME OFF-NO PAY	26	1	1	64	1	1	92
SCK-SICK PAY	304	104	265	128	304	200	1,305
SCW-SICK WITHOUT PAY	124	136	64	240	184	32	780
SUS-DISCIPLINARY SUSPENSION	_	72	-	ı	-	1	72
TAR-TARDY	1	1	1	2	-	0	6
VAC-VACATION	568	164	980	276	68	308	2,364
*TRAINING	21	97	187	6	42	170	522
Total Absence Hours	3,307	1,716	3,283	2,259	926	2,319	13,808
**ATU Number of Work Force (active)	103	39	105	46	15	59	367
Full Work Force hours/month	17,850	6,759	18,197	7,972	2,600	10,226	63,601
Absence as a % of Work Force	19%	25%	18%	28%	36%	23%	22%

OVERTIME TYPE and HOURS	3941 Blue	3947 Expo	3942 Red	3943 Green	3944 Gold	3948 Monrovia	Total
CTB-COMPENSATORY TIME TO BANK	111	22	221	185	37	114	690
OTP-PREM OVERTIME	3,277	2,142	3,955	3,205	16	1,041	13,636
TRO OVERTIME	-	16	-	-	-	-	16
WLO-Worked Lunch Overtme	132	123	249	342	12	82	939
<b>Total Overtime Hours</b>	3,520	2,302	4,425	3,731	64	1,238	15,280
Overtime as a % of Work Force	20%	34%	24%	47%	2%	12%	24%

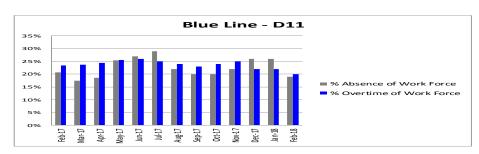
<sup>\*</sup>Training hours captured by Instruction Department are added to Absences Report.

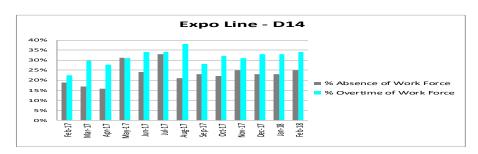
<sup>\*\*</sup>ATU Employee Numbers from ATU Manpower Status Report (last week of the month)

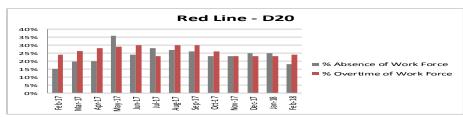


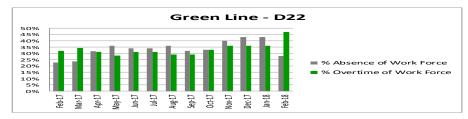
Note: Overtime also covers other required activities, including Training, Component Overhaul, and Special Events.

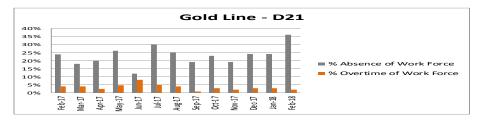
### ATU - %Absence & %Overtime of Work Force February 2017-2018

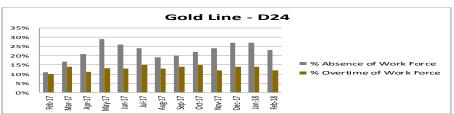












% Abser	nce of Work Force	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	13-Month Average
	Blue Line D11	21%	17%	19%	25%	27%	29%	22%	20%	20%	22%	26%	26%	19%	23%
[	Expo Line D14	19%	17%	16%	31%	24%	33%	21%	23%	22%	25%	23%	23%	25%	23%
	Red Line D20	15%	20%	20%	36%	24%	28%	27%	26%	23%	23%	25%	25%	18%	24%
	Green Line D22	23%	24%	32%	36%	34%	34%	36%	32%	33%	40%	43%	43%	28%	34%
	Gold Line D21	24%	18%	20%	26%	12%	30%	25%	19%	23%	19%	24%	24%	36%	23%
[	Gold Line D24	11%	17%	21%	29%	26%	24%	19%	20%	22%	24%	27%	27%	23%	22%

% Overti	ime of Work Force	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	13-Month Average
	Blue Line D11	23%	24%	24%	26%	26%	25%	24%	23%	24%	25%	22%	22%	20%	24%
	Expo Line D14	22%	30%	28%	31%	34%	34%	38%	28%	32%	31%	33%	33%	34%	31%
	Red Line D20	24%	26%	28%	29%	30%	23%	30%	30%	26%	23%	23%	23%	24%	26%
	Green Line D22	32%	34%	31%	28%	31%	31%	29%	29%	33%	36%	36%	36%	47%	33%
	Gold Line D21	4%	4%	2%	5%	2%	5%	4%	1%	3%	2%	3%	3%	2%	3%
	Gold Line D24	10%	14%	11%	13%	13%	15%	13%	14%	15%	12%	14%	14%	12%	13%

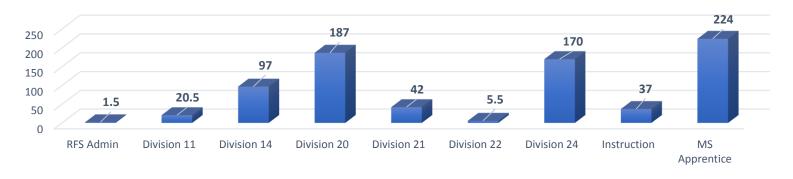


# Training - RFS Instruction Department February 2018

### **RFS Training Hours**

Team	No. Employees	<b>Vehicle Training</b>	RFS Other	<b>Metro Provided</b>	Total Training Hours
RFS Admin	1	-	-	2	2
Division 11	5	-	-	21	21
Division 14	5	-	-	97	97
Division 20	9	160	-	27	187
Division 21	1	40	-	2	42
Division 22	2	-	-	6	6
Division 24	10	120	-	50	170
Instruction	2	-	-	37	37
MS Apprentice	7	224	-	-	224
<b>Grand Total</b>	42	544	-	241	785

#### **RFS Instruction Time**



#### Description

Vehicle Training = Training related to Fleet Maintenance

RFS Other = Training Created by RFS Instruction but not related to Vehicle Training

■ Total Training Hours

Metro Provided = Training provided outside RFS Training (OD&T, Transportation)

Total Training Hours = Total amount of man-hours spent by RFS in any kind of training



# Maintenance Specialists Vehicle Training Levels February 2018





Red Line	66	Specialists
Average Experience	13.3	Years
A650	97.3%	<b>Training Complete</b>

32

10.9

94.5%

8.9%

**Specialists** 

**Training Complete** 

**Training Complete** 

Years

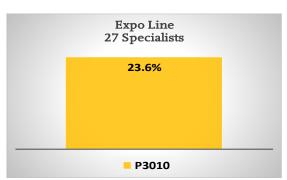
Green Line

P2000

P3010

Average Experience





Blue Line	65	Specialists
<b>Average Experience</b>	14.3	
P865/P2020	75.4%	<b>Training Complete</b>
P2000	48.7%	<b>Training Complete</b>
P3010	8.0%	<b>Training Complete</b>

Expo Line	27	Specialists
Average Experience		Years
P3010	23.6%	<b>Training Complete</b>





		Specialists
Average Experience		Years
P2550	73.8%	<b>Training Complete</b>
P3010	4.3%	<b>Training Complete</b>

Gold Line - Monrovia	39	Specialists
Average Experience		Years
P2550	81.6%	<b>Training Complete</b>
P3010	34.3%	<b>Training Complete</b>

\* SHIFT IN NUMBERS REPRESENT THE MOVEMENT OF EMPLOYEES WITH LESS EXPERIENCE AND TRAINING, SUCH AS APPRENTICES MOVING TO THE MAINTENANCE SPECIALIST LEVEL

