



# Rail Fleet Services Monthly Report July 2017



**Metro**

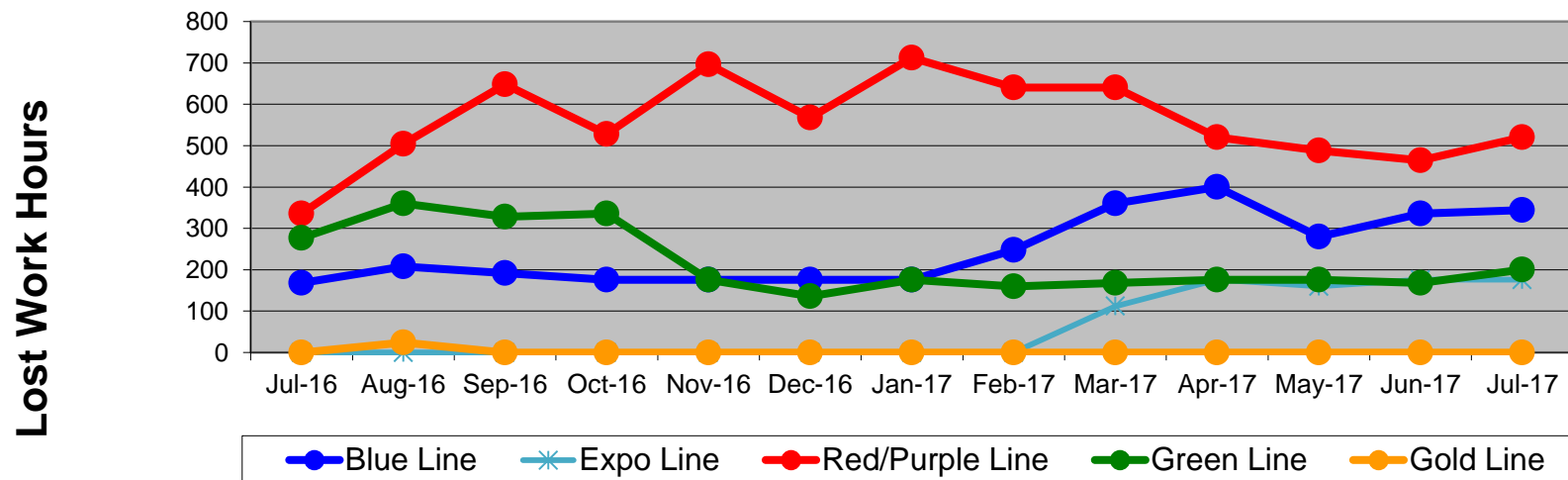
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# Industrial Injuries – Lost Work Hours July 2016-2017

	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	13-Month Period
Blue Line	168	208	192	176	176	176	176	248	360	400	280	336	344	3,240
Expo Line	0	0	0	0	0	0	0	0	112	176	160	176	176	800
Red/Purple Line	336	504	648	528	696	568	712	640	640	520	488	464	520	7,264
Green Line	277	360	328	336	176	136	176	160	168	176	176	168	200	2,837
Gold Line	0	24	0	0	0	0	0	0	0	0	0	0	0	24
Totals	781	1,096	1,168	1,040	1,048	880	1,064	1,048	1,280	1,272	1,104	1,144	1,240	14,165

**Industrial Injuries (lost work hours)**



# Rail Vehicle Accidents & Major Incidents

## July 2016-2017

Repair Costs	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	13-Month Period
Blue Line	\$0	\$3,211	\$665	\$28,089	\$0	\$2,352	\$170,311	\$0	\$1,427	\$2,586	\$0	\$15,084	\$632	\$224,357
Expo Line	\$576	\$0	\$12,921	\$9,468	\$0	\$381	\$763	\$1,930	\$0	\$1,420	\$0	\$0	\$0	\$27,459
Red/Purple Line	\$840	\$552	\$0	\$0	\$0	\$0	\$0	\$1,032	\$0	\$0	\$0	\$0	\$0	\$2,424
Green Line	\$0	\$51,535	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$334	\$0	\$0	\$0	\$51,869
Gold Line	\$564	\$0	\$0	\$5,694	\$0	\$0	\$3,789	\$15,829	\$1,871	\$191	\$2,692	\$0	\$0	\$30,630
Totals	\$1,980	\$55,298	\$13,586	\$43,251	\$0	\$2,733	\$174,863	\$18,791	\$3,298	\$4,531	\$2,692	\$15,084	\$632	\$336,739

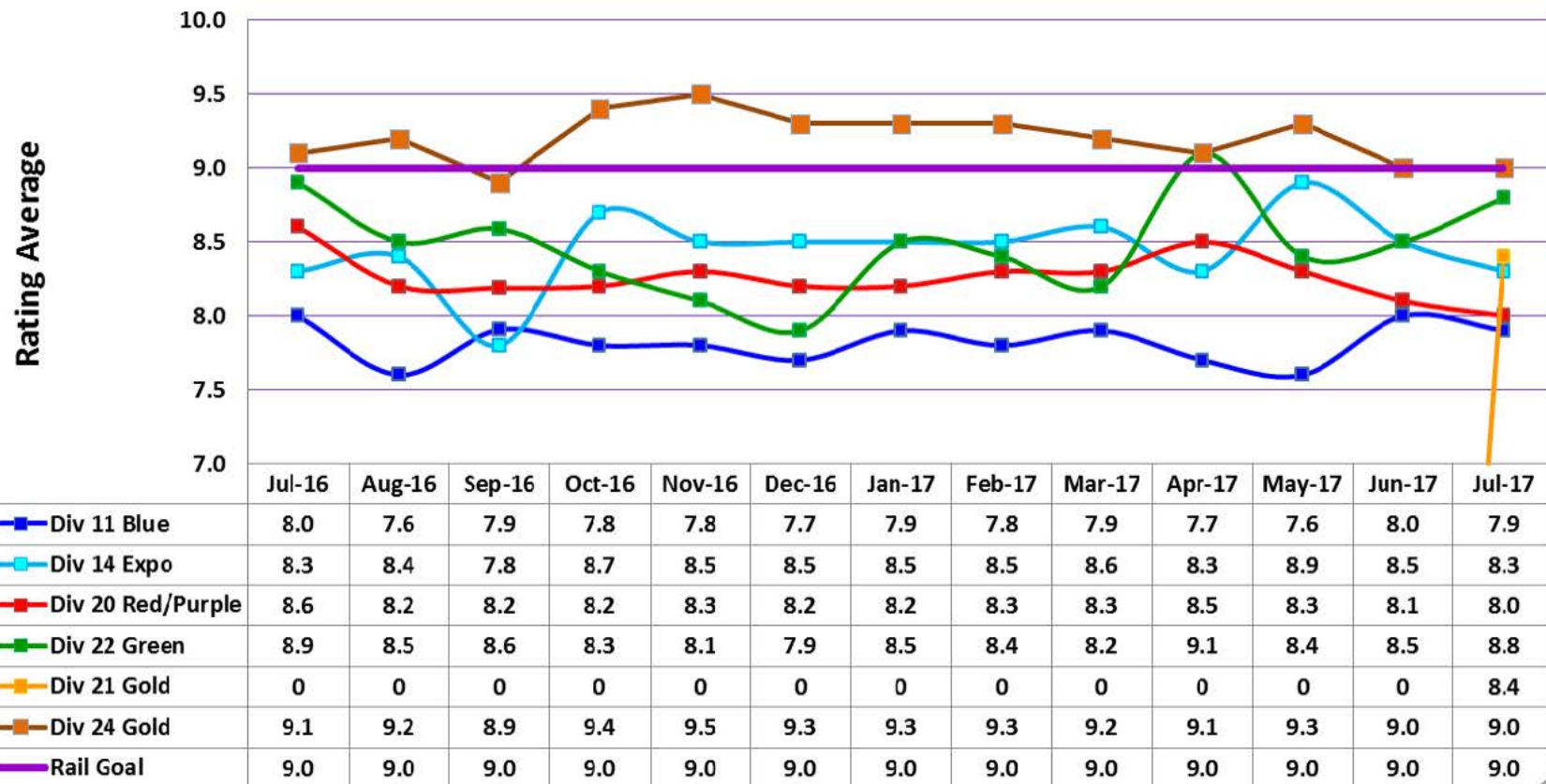
Rail Vehicle Accident Costs - July 2017				
Date	Incident #	Problem Code	Incident Description	Repair Cost
Metro Blue Line				
7/26/17	2891883	Train vs. Vehicle	A 10-73 was reported at 12th and Flower St., Track 2.	\$ 632
Metro Blue Line Total				\$ 632
Grand Total				\$ 632
10-71 = Train vs. Object/ 10-72 = Train vs. Pedestrian/ 10-73 = Train vs. Vehicle/ 10-74 = Train vs. MTA Vehicle/ 10-75 = Derailment				

**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

## July 2016-2017

Car Cleanliness Monthly Report



# Service Delivery July 2017

## Blue Line Fleet Size: 97

<u>Pull Out</u>	<u>Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
*Weekday:	72	72	100%
Weekend:	26	58	223%

\*Last week of June, Vehicles Required were 72 cars and Average Available were also 72.

**Monthly Mileage: 484,978**

## Expo Line Fleet Size: 56

<u>Pull Out</u>	<u>Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
Weekday:	42	43	102%
Weekend:	30	39	130%

**Monthly Mileage: 305,424**

## Red/Purple Line Fleet Size: 102

<u>Pull Out</u>	<u>Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
Weekday:	64	76	119%
Weekend:	40	64	160%

**Monthly Mileage: 619,796**

## Green Line Fleet Size: 29

<u>Pull Out</u>	<u>Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
Weekday:	22	22	100%
Weekend:	14	17	121%

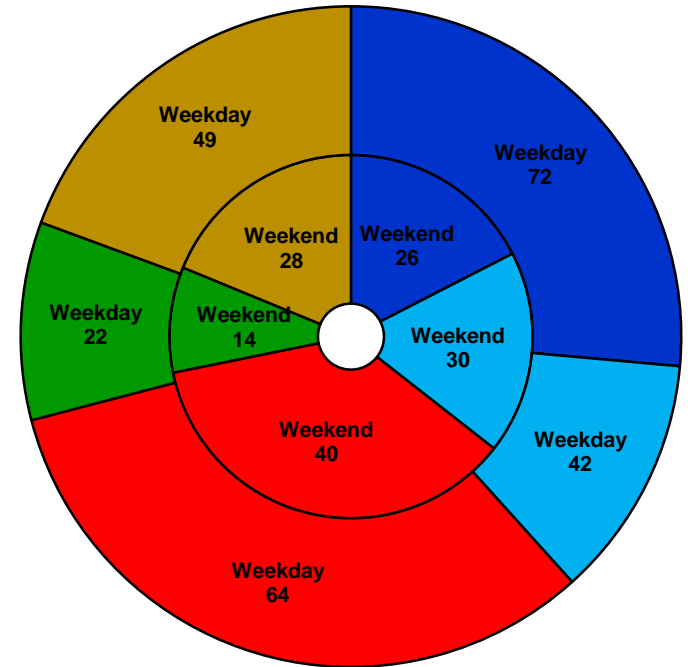
**Monthly Mileage: 233,080**

## Gold Line Fleet Size: 65

<u>Pull Out</u>	<u>Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
Weekday (Div 21):	10	10	100%
Weekday (Div 24):	39	41	105%
Weekend (Div 24):	28	35	125%

**\*Monthly Mileage: 571,846**

\* Gold Line monthly mileage includes Division 21 and 24.

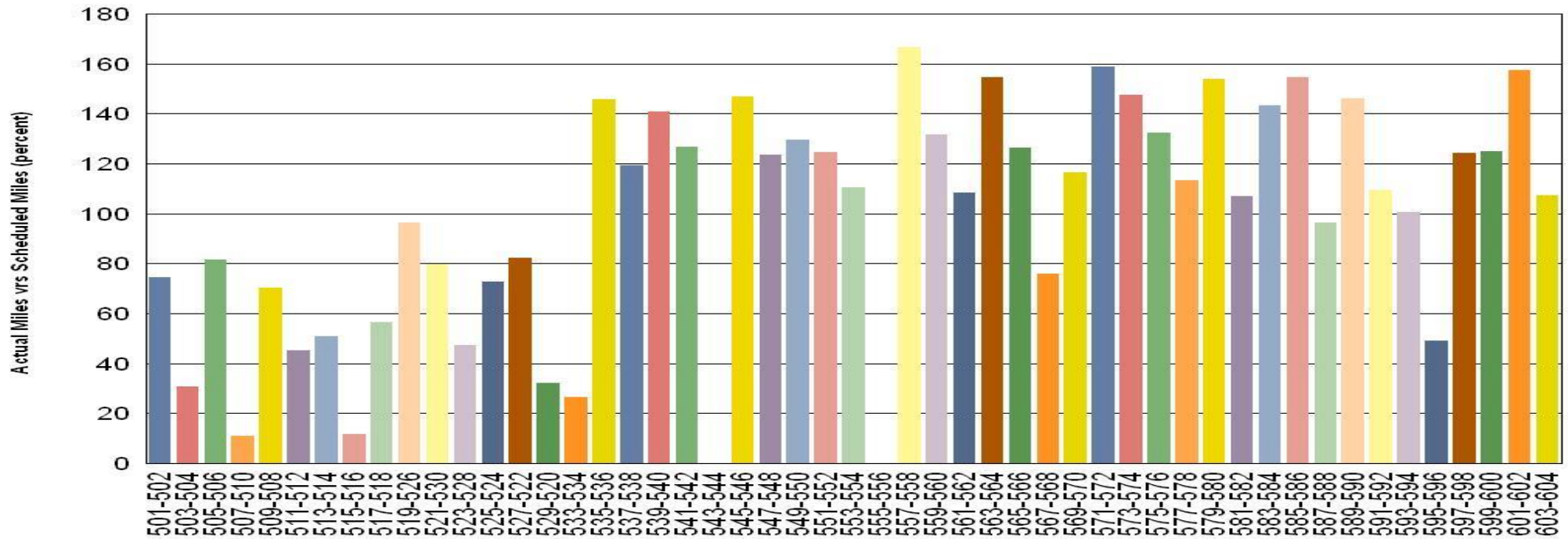


■ Blue Line
 ■ Expo Line
 ■ Red/Purple Line
 ■ Green Line
 ■ Gold Line

**NOTES: Standby trains not included in vehicle requirements**

# Vehicle Utilization July 2017

## Metro Red/Purple Line (102 Cars)



### Red/Purple Line:

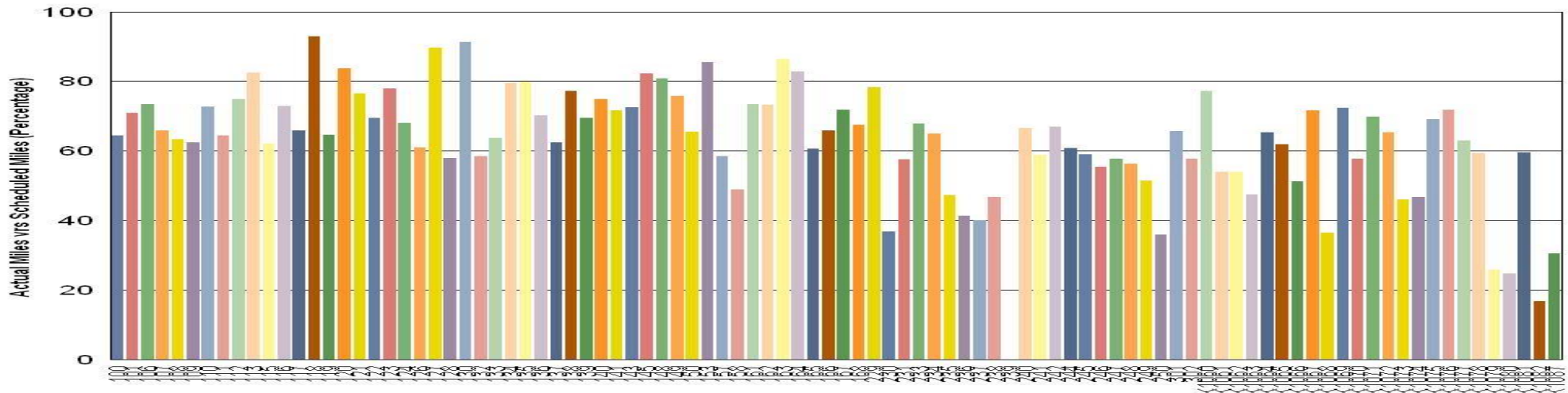
The following cars were out of service due to:

- Car # 503-504 – Propulsion Fault
- Car # 507-510 – Propulsion Fault
- Car # 515-516 – Propulsion Fault (CB1 Tripped)
- Car # 529-520 – Propulsion Fault (CB1 Tripped)
- Car # 533-534 – Interior Renovation
- Car # 543-544 – Interior Renovation
- Car # 555-556 – Propulsion Fault (GTO Shoot Through)



# Vehicle Utilization July 2017

## Metro Blue Line (97 Cars)



**Blue Line:** The following cars were out of service due to:

**Car # 230** – Self Applying Brakes (Repeater Issue)

**Car # 239** – 10-73 Accident Repairs

**Car # 250** – Prop Fault

**Car # K1068** – 10K Inspection / Prop Fault

**Car # K1079** – Conditional Accepted on 7/12/2017, Door Train Line Issue, HVAC Issue

**Car # K1080** – Conditional Accepted on 7/21/2017, QA Inspection

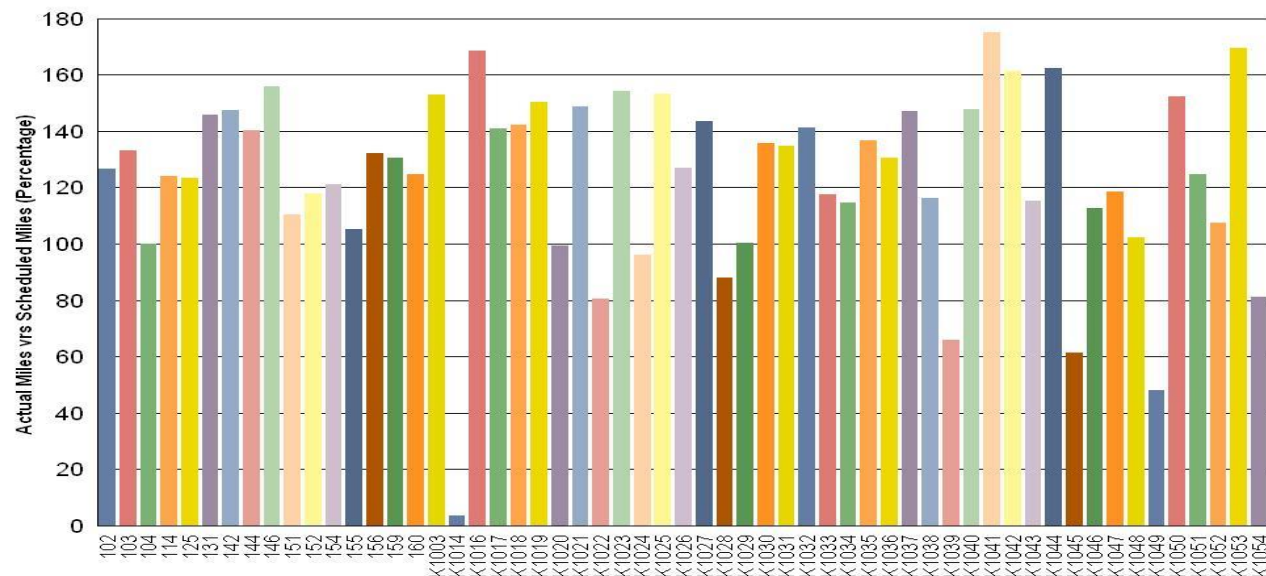
**Car # K1082** – Conditional Accepted on 7/25/2017, Transferred to Blue Line on 8/4/2017

**Car # K1087** Conditional Accepted on 7/15/2017, QA Inspection, HVAC Issue

**Expo Line:** The following car was out of service due to:

**Car # K1014** – Burnt Wiring, KI Repairing (Returned to Service 7/31/2017)

## Metro Expo Line (56 Cars)



*Note: Percentage includes an average 4% mileage deduction for yard mileage and vehicle testing.*



# Vehicle Utilization July 2017

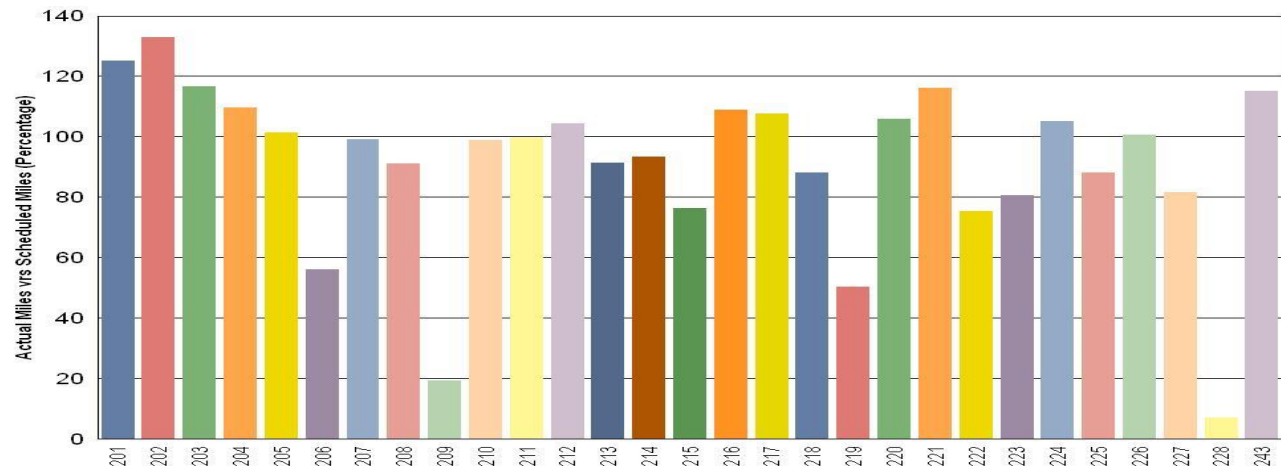
## Metro Green Line (29 Cars)

### Green Line:

The following cars were out of service due to:

**Car # 209** – HVAC Issue

**Car # 228** – Mid-life Overhaul. The car has been shipped off the property.



## Metro Gold Line (65 Cars)

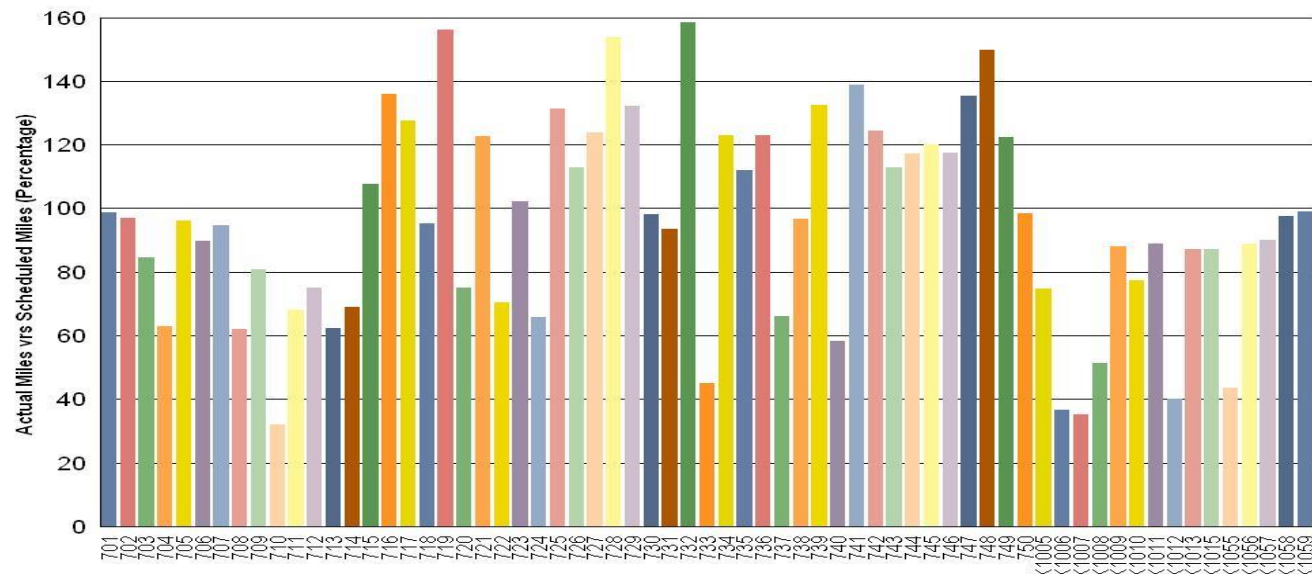
### Gold Line:

The following cars were out of service due to:

**Car # 710** – 120K Inspection, Open Work Order

**Car # K1006** – Warranty Repairs (Propulsion Fault)

**Car # K1007** – Warranty Repairs (Propulsion Fault)

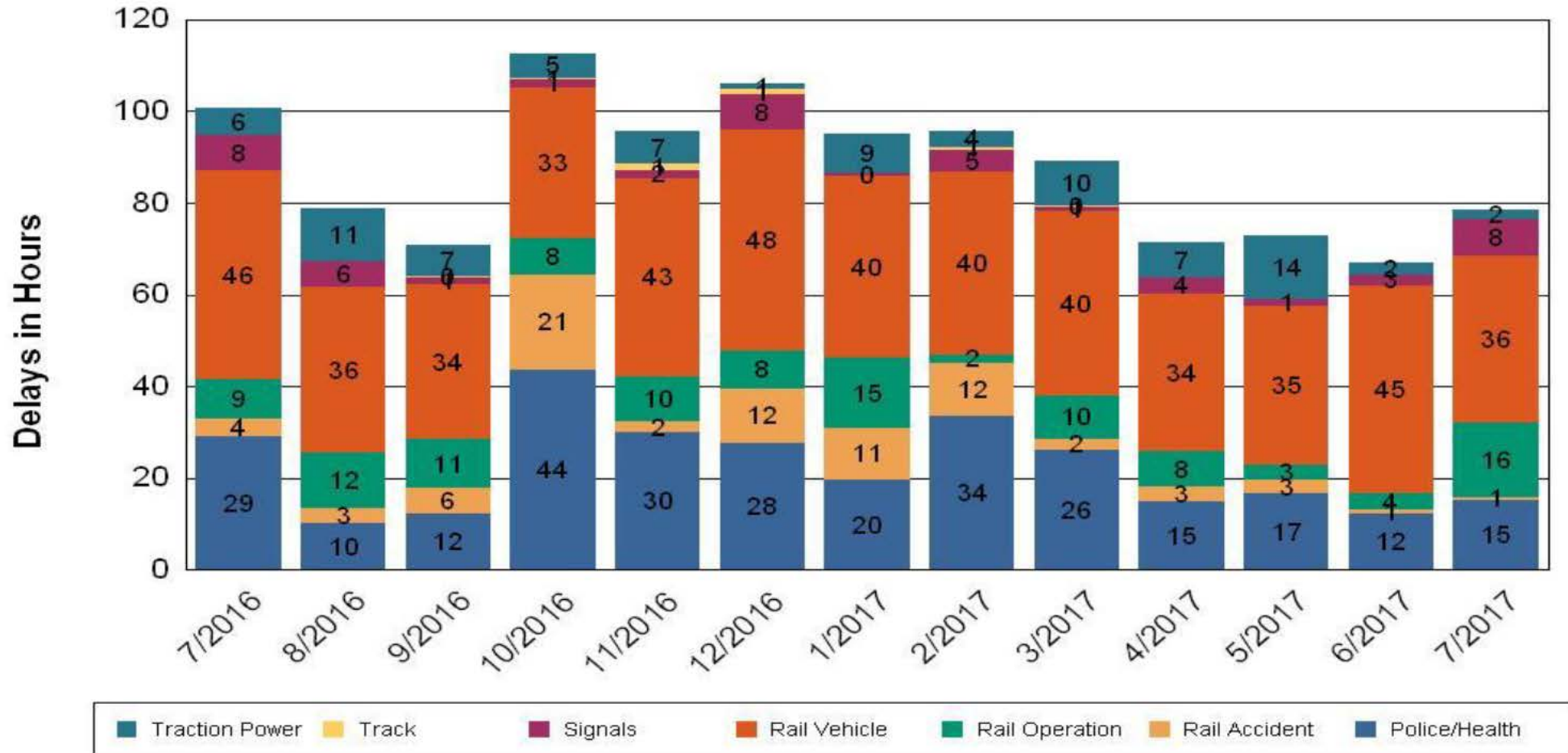


•Percentage includes an average 4% mileage deduction for yard mileage and vehicle testing.

# All Train Delays (Hours) July 2016-2017

## All Train Delays

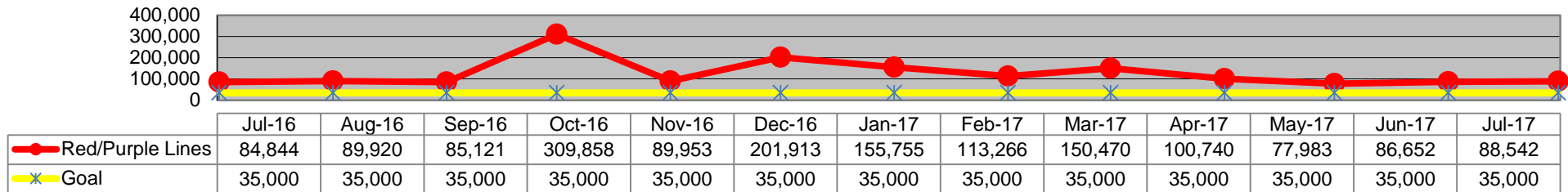
Totals Include the delay to all trains involved (not just the primary incident)



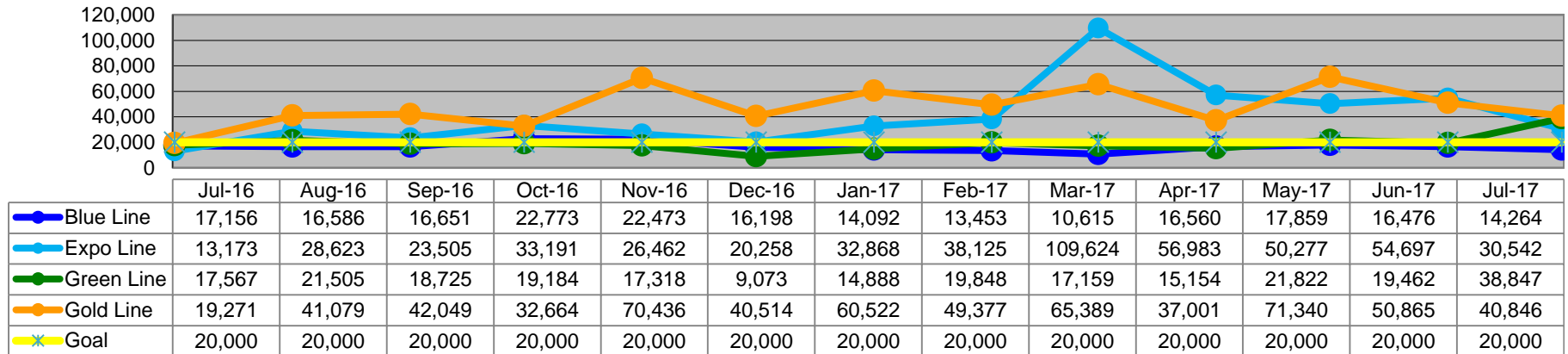
# Mean Miles Between Major Failures (MMBF)

## July 2016-2017

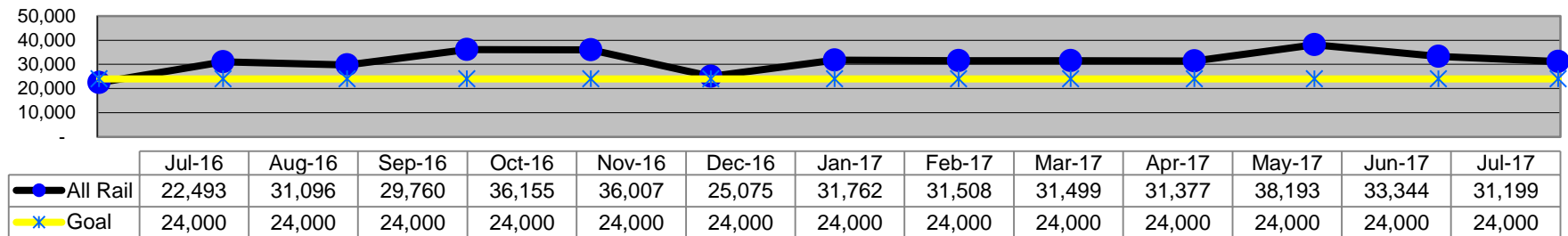
### Mean Miles Between Major Failures - Heavy Rail



### Mean Miles Between Major Failures - Light Rail



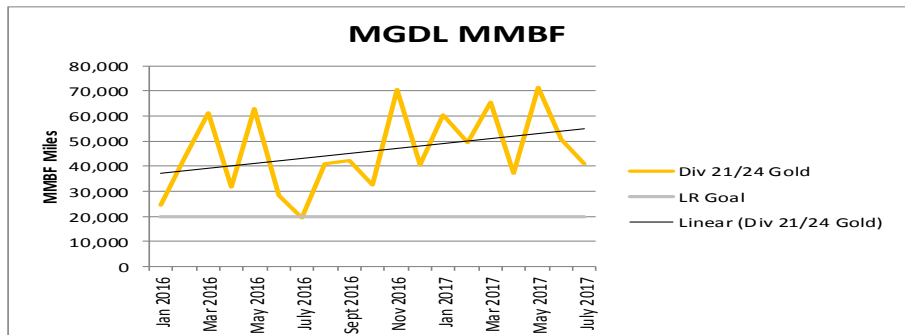
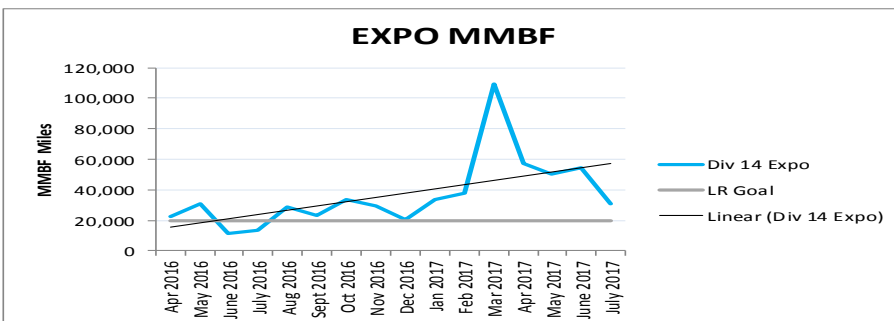
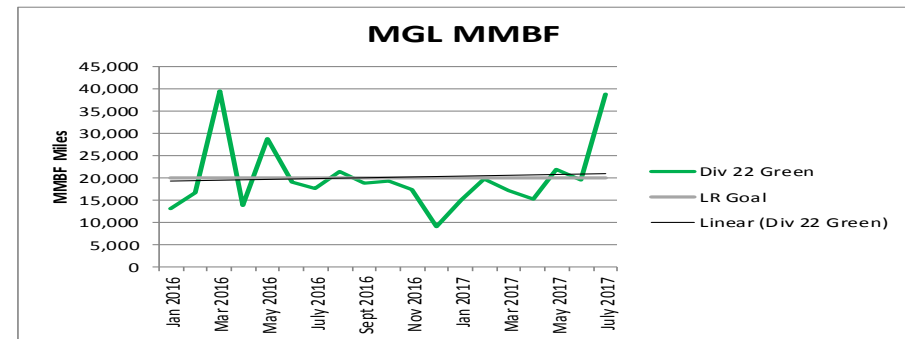
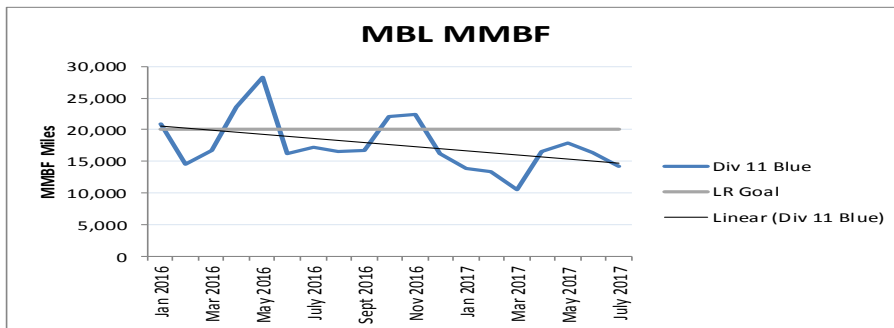
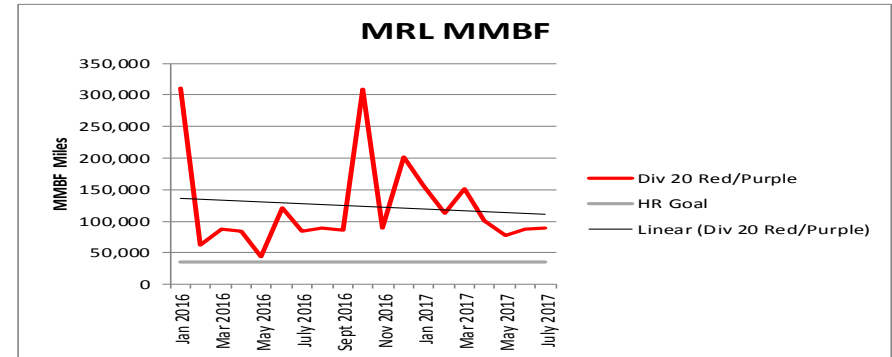
### Mean Miles Between Major Failures (all)



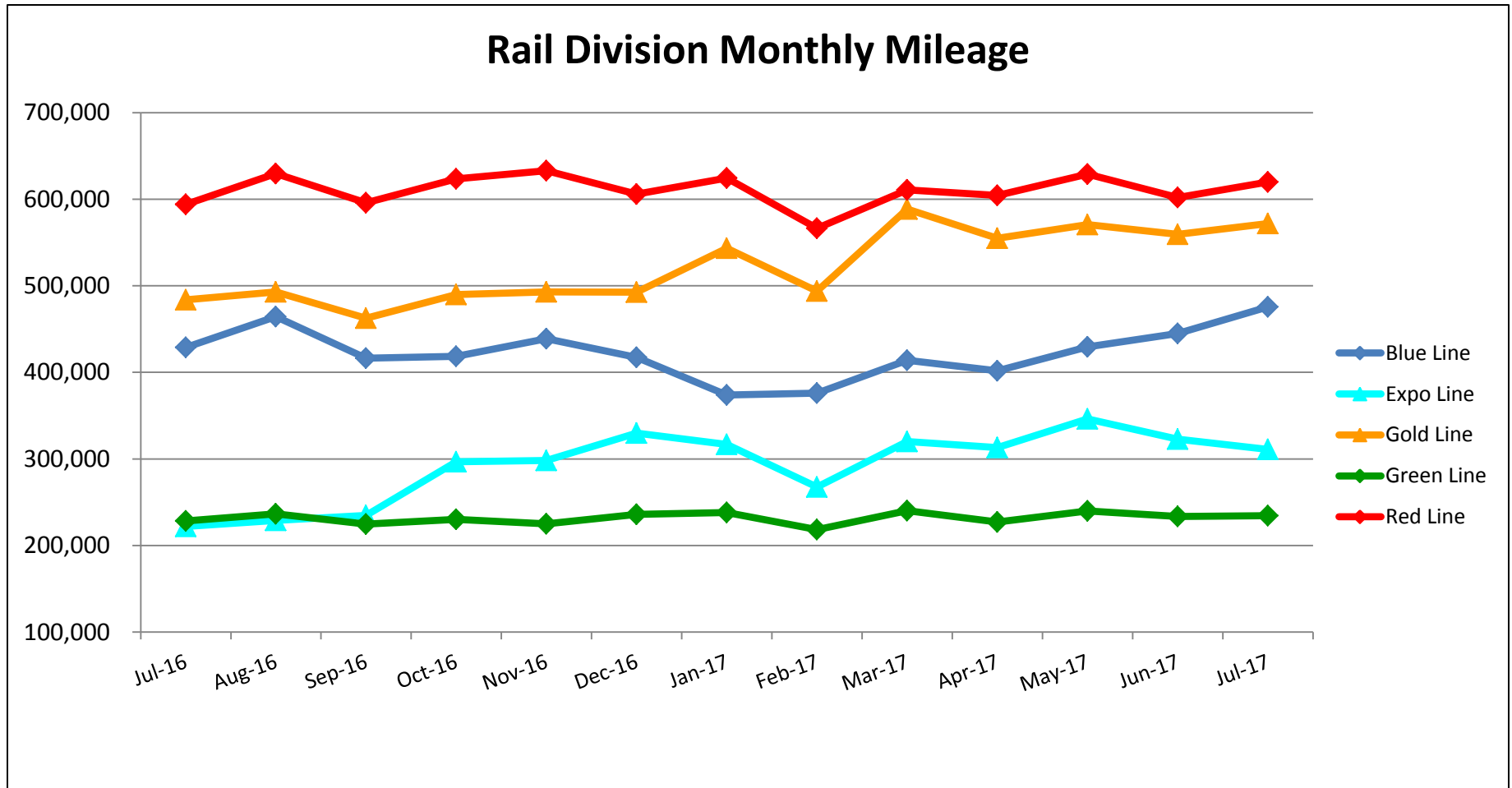
# MMBF by Division

## July 2016-2017

Month	Div 11 Blue	Div 14 Expo	Div 20 Red/Purple	Div 22 Green	Div 21/24 Gold	LR Goal	HR Goal
Jan 2016	20,976	-	310,794	13,075	24,371	20,000	35,000
Feb 2016	14,628	-	62,876	16,751	42,632	20,000	35,000
Mar 2016	16,739	-	86,604	39,513	61,444	20,000	35,000
Apr 2016	23,513	22,195	84,909	13,853	31,658	20,000	35,000
May 2016	28,263	31,044	43,282	28,871	63,137	20,000	35,000
June 2016	16,263	11,289	120,190	19,031	28,184	20,000	35,000
July 2016	17,156	13,173	84,844	17,567	19,271	20,000	35,000
Aug 2016	16,586	28,623	89,920	21,505	41,079	20,000	35,000
Sept 2016	16,651	23,505	85,121	18,725	42,049	20,000	35,000
Oct 2016	22,027	33,606	309,858	19,184	32,664	20,000	35,000
Nov 2016	22,473	29,108	89,953	17,318	70,436	20,000	35,000
Dec 2016	16,198	20,258	201,913	9,073	40,514	20,000	35,000
Jan 2017	13,950	33,309	155,755	14,888	60,522	20,000	35,000
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



# Mileage Between Data Range (by month) July 2016-2017



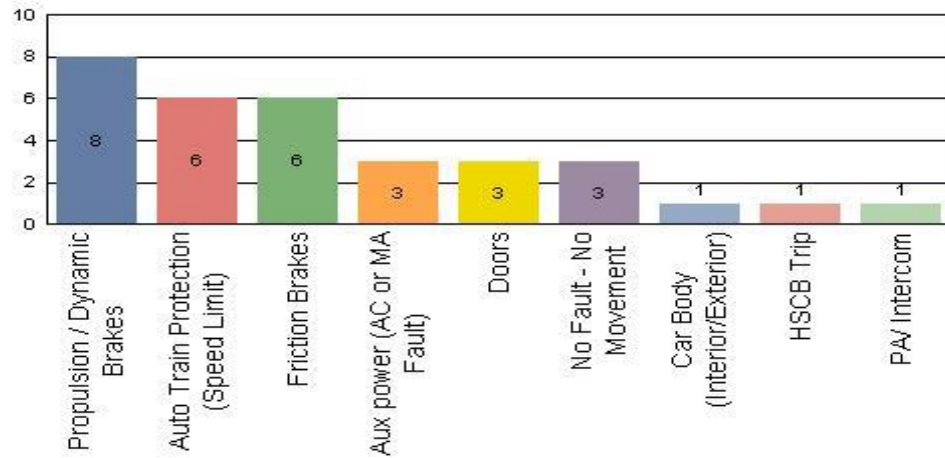
**Notes:**

- Gold Line increase in mileage is due to the open of the Foothill extension, which includes stations further apart and faster average running speeds.
- With the opening of Division 14 in Santa Monica, the Expo Line mileage is now being reported separately from the Blue Line.

# Top Incident Categories July 2017

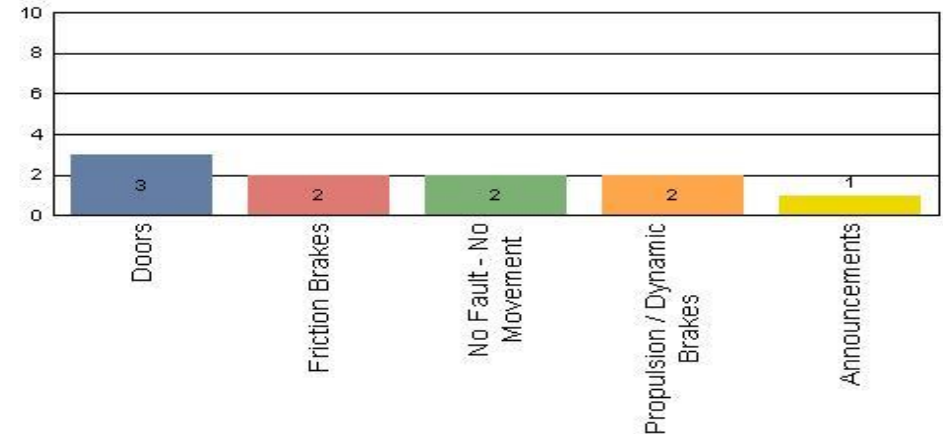
## Metro Blue Line (Div 11)

### Top Incident Categories



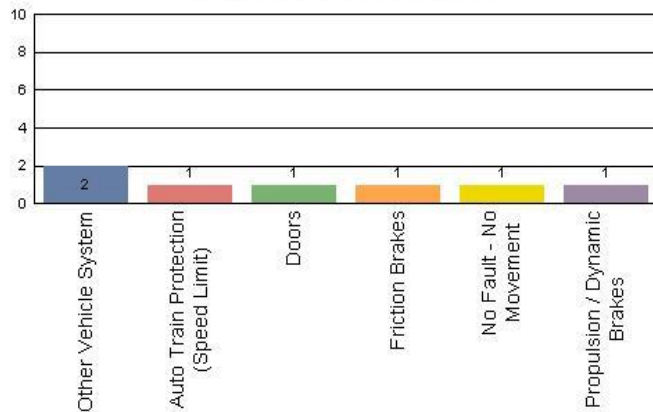
## Metro Expo Line (Div 14)

### Top Incident Categories



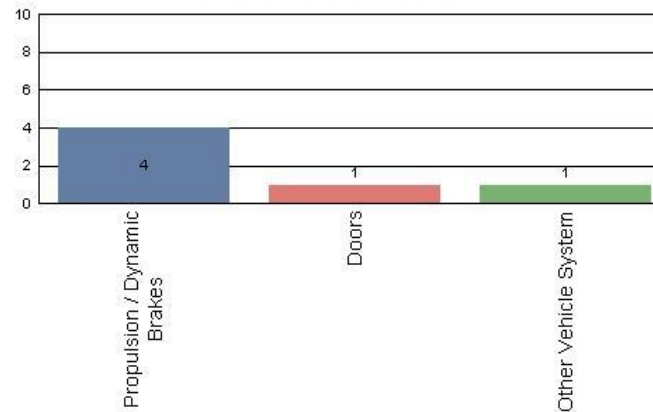
## Metro Red/Purple Line (Div 20)

### Top Incident Categories



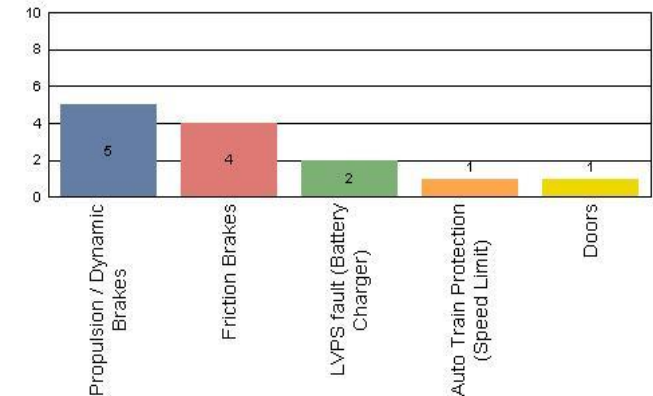
## Metro Green Line (Div 22)

### Top Incident Categories



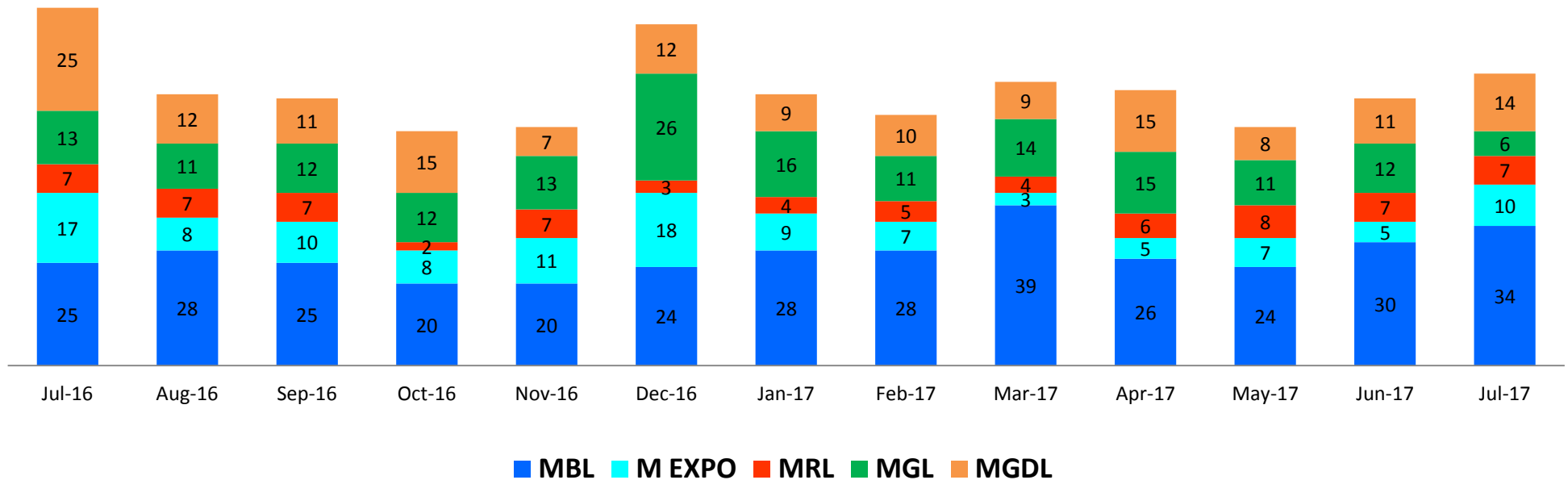
## Metro Gold Line (Div 21 & Div 24)

### Top Incident Categories



# Major Incidents July 2016-2017

## Numbers of Major System Failures (by Line)





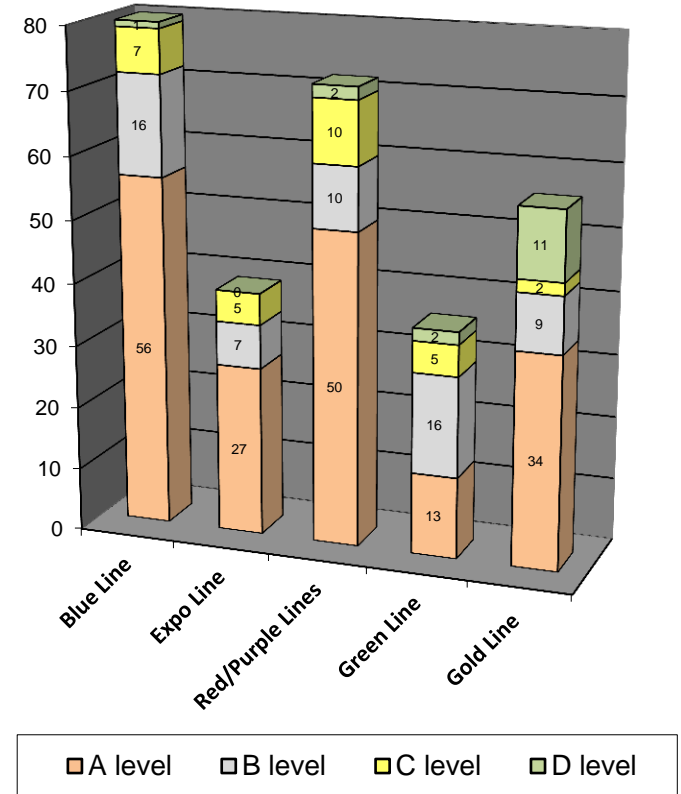
# Preventive Maintenance Compliance

## July 2016-2017

PM Compliance	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
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%	97%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Gold Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	98%	100%

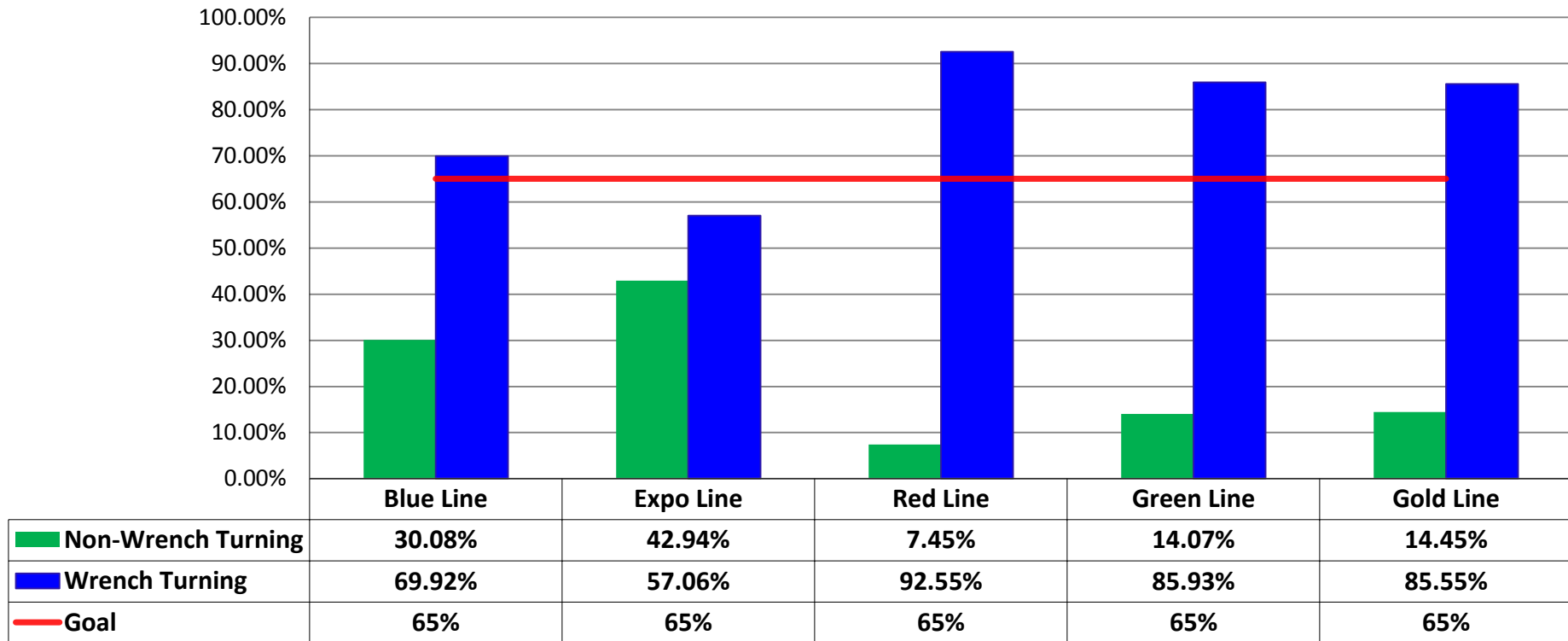
Number of Preventive Maintenance Inspections - July 2017					
Line	A level	B level	C level	D level	Totals
Blue Line	56	16	7	1	80
Expo Line	27	7	5	0	39
Red/Purple Lines	50	10	10	2	72
Green Line	13	16	5	2	36
Gold Line	34	9	2	11	56
Totals:	180	58	29	16	283

Explanation of PM Inspection levels		Miles			
Line	Type	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 July 2017

## RFS - Leader Wrench Turning July 2017



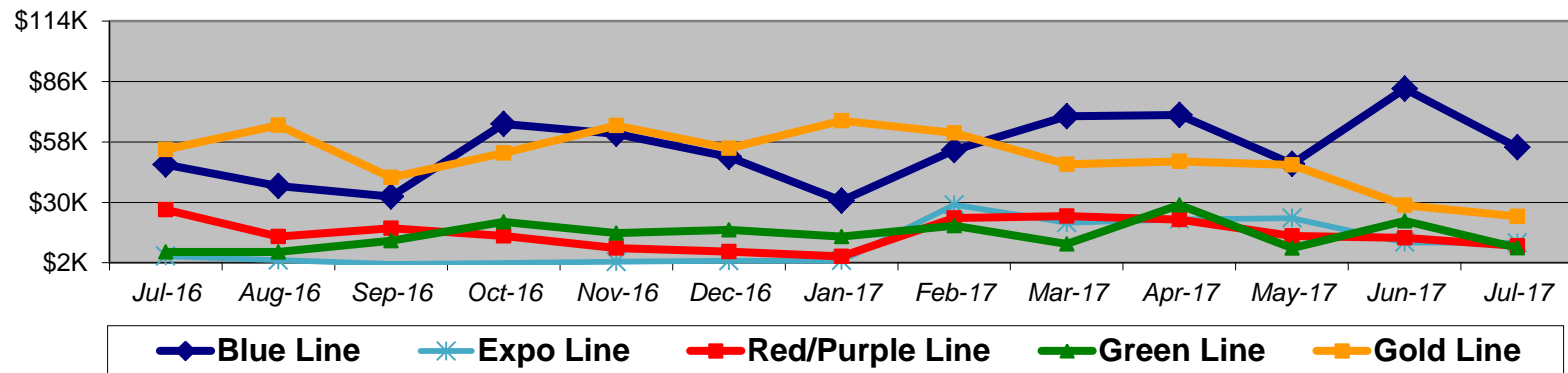
**Notes:** Labor hours contributed by Maint Specialist Leader, Rail Body/Paint Repair Leader, and Maint Specialist Temporary Leader

# Vandalism & Graffiti Report

## July 2016-2017

Graffiti Costs

	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	13-Month Period
Blue Line	\$48K	\$38K	\$33K	\$66K	\$62K	\$51K	\$31K	\$54K	\$70K	\$71K	\$48K	\$83K	\$56K	\$708K
Expo Line	\$5K	\$3K	\$2K	\$2K	\$2K	\$3K	\$3K	\$29K	\$21K	\$22K	\$23K	\$11K	\$11K	\$137K
Red/Purple Line	\$27K	\$14K	\$18K	\$14K	\$9K	\$7K	\$5K	\$23K	\$24K	\$22K	\$14K	\$13K	\$10K	\$200K
Green Line	\$7K	\$7K	\$12K	\$21K	\$16K	\$17K	\$14K	\$19K	\$11K	\$29K	\$9K	\$21K	\$9K	\$192K
Gold Line	\$54K	\$66K	\$42K	\$53K	\$66K	\$55K	\$68K	\$62K	\$48K	\$49K	\$47K	\$29K	\$23K	\$662K
Totals:	\$141K	\$128K	\$106K	\$157K	\$154K	\$133K	\$121K	\$187K	\$172K	\$193K	\$141K	\$158K	\$109K	\$1,899K



July 2017 Vandalism & Graffiti - All Rail

	Qty	Labor	Materials	Totals
Windows Replaced	44	\$ 11,097	\$ 23,927	\$ 35,024
Vandal Shields Replaced	647	\$ 27,835	\$ 11,607	\$ 39,442
Seats Cleaned	165	\$ 2,292	\$ 40	\$ 2,332
Seats Inserts Replaced	273	\$ 10,048	\$ 7,798	\$ 17,846
Graffiti Removal - Other	1,139	\$ 9,034	\$ 1,870	\$ 10,904
Repainting Panels	109	\$ 3,433	\$ -	\$ 3,433
<b>Totals</b>	<b>2,377</b>	<b>\$ 63,739</b>	<b>\$ 45,242</b>	<b>\$ 108,981</b>

# Vandalism & Graffiti Pictures

## July 2017

### Blue Line



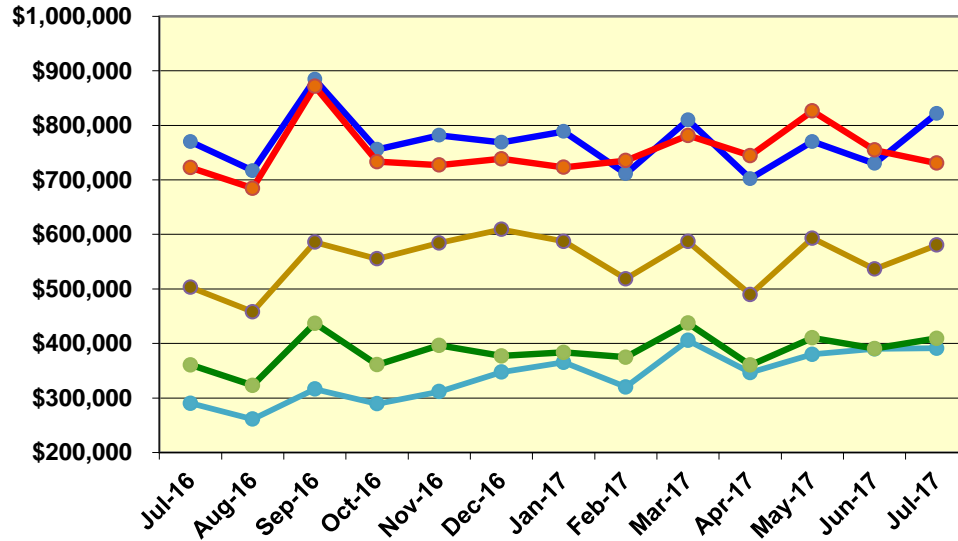
### Green Line



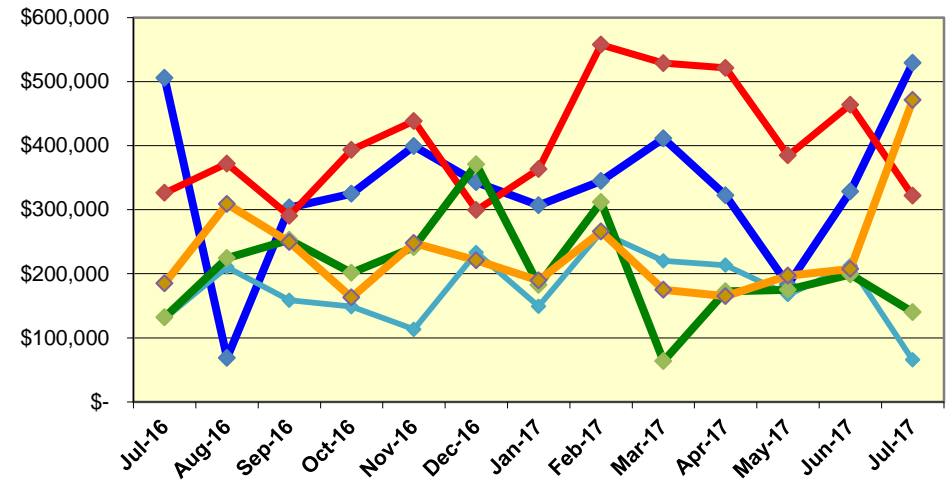
# Labor and Material Costs

## July 2016-2017

Labor Costs



Material Costs



Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
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Labor Costs

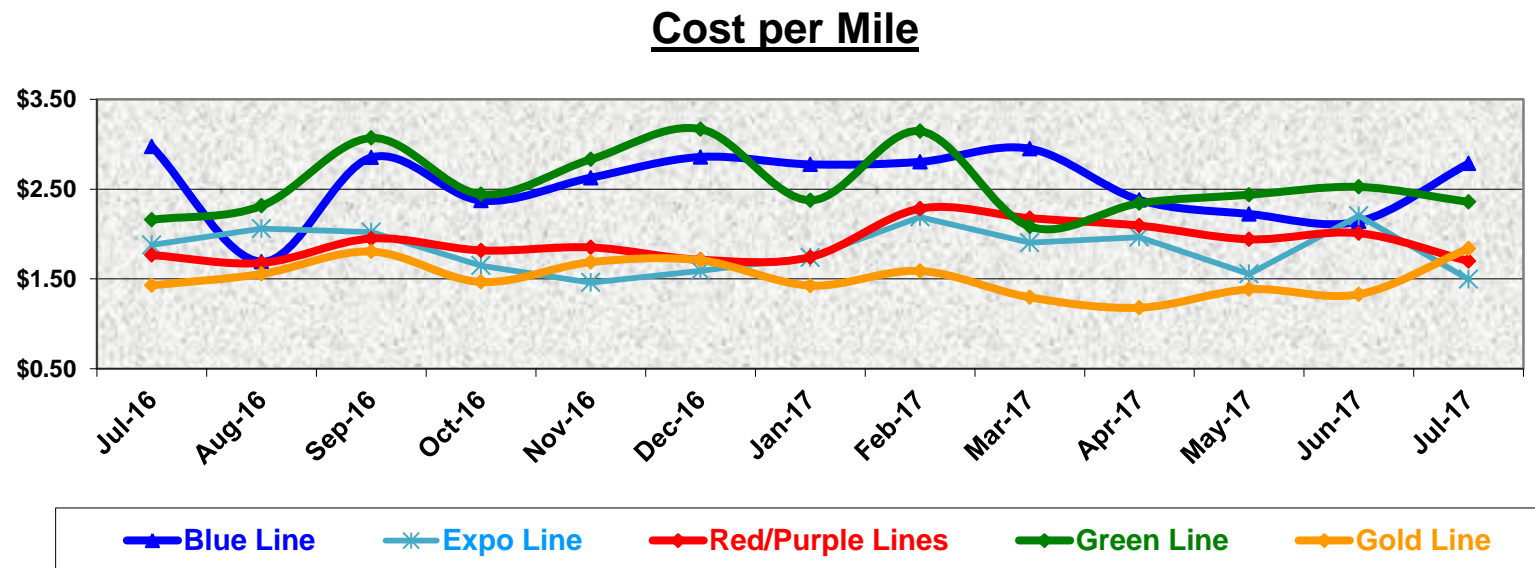
	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
Blue Line	\$ 770,143	\$ 716,923	\$ 884,555	\$ 755,958	\$ 781,662	\$ 768,756	\$ 788,785	\$ 711,354	\$ 810,012	\$ 702,374	\$ 770,245	\$ 730,183	\$ 822,077
Expo Line	\$ 290,199	\$ 261,217	\$ 316,395	\$ 289,213	\$ 311,627	\$ 347,280	\$ 365,354	\$ 320,019	\$ 405,656	\$ 346,398	\$ 379,871	\$ 389,878	\$ 391,095
Red/Purple Lines	\$ 722,363	\$ 684,555	\$ 871,431	\$ 733,202	\$ 727,093	\$ 738,672	\$ 723,038	\$ 735,394	\$ 781,595	\$ 744,460	\$ 826,461	\$ 754,862	\$ 730,783
Green Line	\$ 360,682	\$ 323,087	\$ 436,825	\$ 360,963	\$ 396,278	\$ 376,933	\$ 383,591	\$ 374,747	\$ 437,154	\$ 360,314	\$ 410,146	\$ 390,662	\$ 409,313
Gold Line	\$ 502,967	\$ 458,067	\$ 585,582	\$ 555,213	\$ 584,203	\$ 609,215	\$ 587,313	\$ 518,524	\$ 586,949	\$ 489,634	\$ 593,070	\$ 536,404	\$ 580,341
Totals	\$ 2,646,353	\$ 2,443,849	\$ 3,094,789	\$ 2,694,548	\$ 2,800,863	\$ 2,840,856	\$ 2,848,080	\$ 2,660,038	\$ 3,021,365	\$ 2,643,180	\$ 2,979,794	\$ 2,801,989	\$ 2,933,607

Material Costs

	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
Blue Line	\$ 505,721	\$ 68,670	\$ 303,202	\$ 324,999	\$ 399,427	\$ 342,695	\$ 306,710	\$ 344,931	\$ 411,541	\$ 322,424	\$ 182,846	\$ 328,206	\$ 529,007
Expo Line	\$ 130,419	\$ 210,312	\$ 158,666	\$ 148,670	\$ 113,229	\$ 233,001	\$ 149,260	\$ 264,561	\$ 219,980	\$ 213,435	\$ 167,428	\$ 212,682	\$ 65,432
Red/Purple Lines	\$ 326,251	\$ 371,920	\$ 290,597	\$ 393,507	\$ 438,480	\$ 299,157	\$ 363,192	\$ 557,616	\$ 528,820	\$ 521,242	\$ 384,776	\$ 463,957	\$ 321,863
Green Line	\$ 132,247	\$ 224,414	\$ 252,988	\$ 201,438	\$ 241,344	\$ 370,755	\$ 182,518	\$ 312,113	\$ 63,371	\$ 172,269	\$ 174,969	\$ 199,040	\$ 140,168
Gold Line	\$ 185,153	\$ 308,906	\$ 249,398	\$ 162,899	\$ 247,842	\$ 221,172	\$ 189,520	\$ 265,930	\$ 175,047	\$ 165,012	\$ 197,220	\$ 207,555	\$ 471,378
Totals	\$ 1,279,791	\$ 1,184,222	\$ 1,254,851	\$ 1,231,513	\$ 1,440,322	\$ 1,466,779	\$ 1,191,200	\$ 1,745,150	\$ 1,398,760	\$ 1,394,383	\$ 1,107,239	\$ 1,411,440	\$ 1,527,848

# Cost Per Mile July 2016-2017

Cost per mile:	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Average
Blue Line	\$2.97	\$1.69	\$2.85	\$2.37	\$2.63	\$2.86	\$2.78	\$2.80	\$2.95	\$2.38	\$2.22	\$2.14	\$2.79	\$2.57
Expo Line	\$1.88	\$2.06	\$2.02	\$1.65	\$1.46	\$1.59	\$1.74	\$2.19	\$1.90	\$1.96	\$1.56	\$2.20	\$1.49	\$1.82
Red/Purple Lines	\$1.77	\$1.68	\$1.95	\$1.82	\$1.85	\$1.71	\$1.74	\$2.28	\$2.18	\$2.09	\$1.94	\$2.01	\$1.70	\$1.90
Green Line	\$2.16	\$2.31	\$3.07	\$2.44	\$2.83	\$3.17	\$2.38	\$3.15	\$2.08	\$2.34	\$2.44	\$2.52	\$2.36	\$2.56
Gold Line	\$1.43	\$1.56	\$1.81	\$1.47	\$1.69	\$1.71	\$1.43	\$1.59	\$1.29	\$1.18	\$1.38	\$1.33	\$1.84	\$1.51





# ATU Absences vs. Overtime

## July 2017

ABSENCE TYPE and HOURS	3941 Blue	3947 Expo	3942 Red	3943 Green	3944 Gold	3948 Monrovia	Total
AWP-ABSENT W/O PERMISSION	8	-	-	20	-	-	28
BER-BEREAVEMENT	48	-	-	24	24	-	96
CTO-COMPENSATORY TIME OFF	32	166	124	28	-	44	394
CUT-EMPLOYEE LEAVES EARLY	1	2	-	1	-	1	4
DSL-DISABILITY LEAVE/LONG	432	184	-	536	-	-	1,152
EFH-EMG. FLOAT HOL.	72	56	136	80	16	48	408
ETO-EXCUSED TIME OFF	63	76	56	5	1	30	232
FMI-FAM IND INJURY	-	-	176	144	-	176	496
FML-FAMILY CARE LEAVE	552	240	275	200	-	216	1,483
FMS-FAMILY LEAVE SICK	8	14	18	20	-	16	76
HLF-HOLIDAY FLOATING	964	272	512	264	136	376	2,524
HNP-HOLIDAY NOT PAID	8	-	-	-	-	-	8
HOL-HOLIDAY LEGAL	528	128	480	96	72	216	1,520
II-INDUSTRIAL INJURY	176	24	-	184	-	-	384
JUR-JURY DUTY	-	8	-	-	-	-	8
LC1-LABOR CODE 233	96	16	115	40	52	40	359
LTI-OCCPIL/LONGTRM INJ LEAVE	168	152	520	16	-	-	856
MLN-MILITARY ABSENCE-UNPAID	24	-	88	-	-	-	112
OWP-OFF WITH PERMISSION	-	-	2	-	-	-	2
RTO-REQUESTED TIME OFF-NO PAY	6	-	1	-	-	-	7
SCK-SICK PAY	240	48	152	80	136	123	779
SCW-SICK WITHOUT PAY	24	-	-	60	-	48	132
TAR-TARDY	5	3	2	3	1	1	14
UNP-UNION BUS PAID	-	-	16	-	-	-	16
VAC-VACATION	1,855	980	2,112	736	268	1,032	6,983
VAS-VACATION WHILE SICK	-	-	24	-	-	-	24
*TRAINING	112	-	21	112	272	-	517
<b>Total Absence Hours</b>	<b>5,422</b>	<b>2,369</b>	<b>4,830</b>	<b>2,649</b>	<b>978</b>	<b>2,367</b>	<b>18,614</b>
**ATU Number of Work Force (active)	107	41	101	45	19	58	371
Full Work Force hours/month	18,543	7,105	17,503	7,799	3,293	10,053	64,294
<b>Absence as a % of Work Force</b>	<b>29%</b>	<b>33%</b>	<b>28%</b>	<b>34%</b>	<b>30%</b>	<b>24%</b>	<b>29%</b>

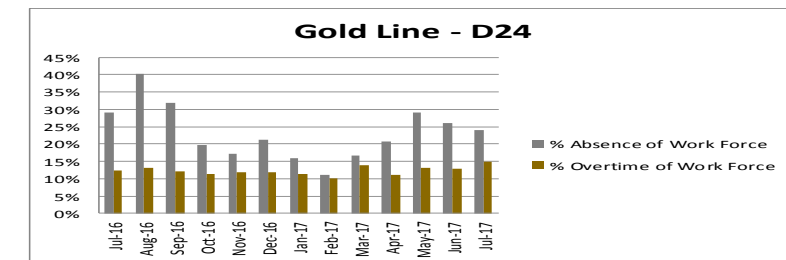
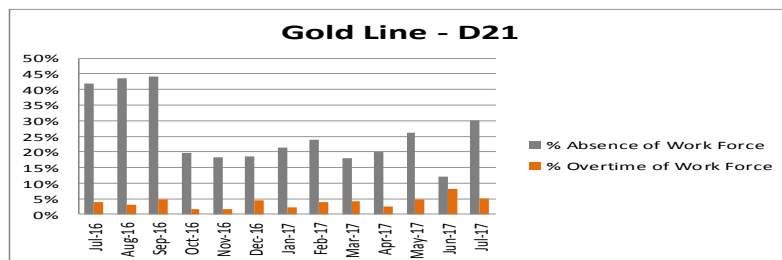
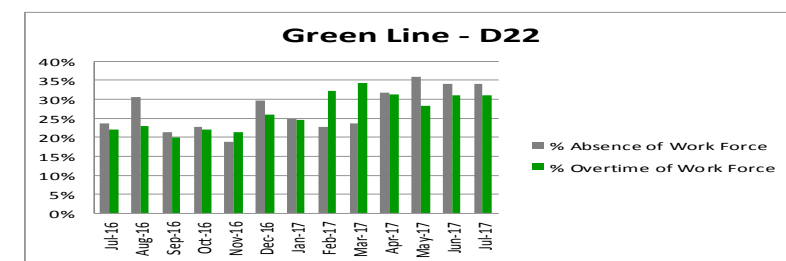
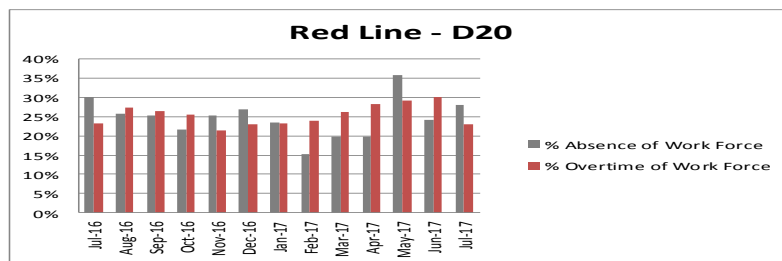
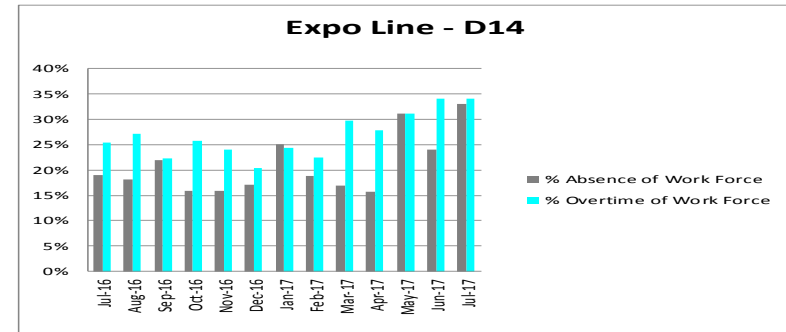
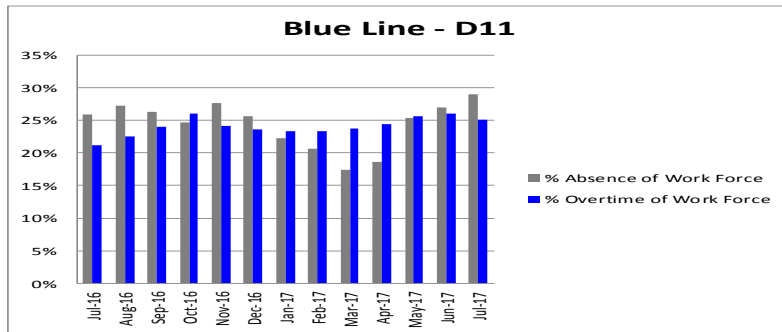
OVERTIME TYPE and HOURS	3941 Blue	3947 Expo	3942 Red	3943 Green	3944 Gold	3948 Monrovia	Total
CTB-COMPENSATORY TIME TO BANK	400	191	264	236	15	299	1,406
OTP-PREM OVERTIME	4,118	2,079	3,419	2,087	133	1,157	12,993
TRO OVERTIME	16	8	4	-	-	-	28
WLO-Worked Lunch Overtime	144	140	252	86	21	83	724
<b>Total Overtime Hours</b>	<b>4,678</b>	<b>2,418</b>	<b>3,939</b>	<b>2,409</b>	<b>169</b>	<b>1,539</b>	<b>15,151</b>
<b>Overtime as a % of Work Force</b>	<b>25%</b>	<b>34%</b>	<b>23%</b>	<b>31%</b>	<b>5%</b>	<b>15%</b>	<b>24%</b>

\*Training hours captured by Instruction Department are added to Absences Report.

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



# ATU - %Absence & %Overtime of Work Force July 2016 - 2017



% Absence of Work Force	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	13-Month Average
Blue Line D11	26%	27%	26%	25%	28%	26%	22%	21%	17%	19%	25%	27%	29%	24%
Expo Line D14	19%	18%	22%	16%	16%	17%	25%	19%	17%	16%	31%	24%	33%	21%
Red Line D20	30%	26%	25%	22%	25%	27%	23%	15%	20%	20%	36%	24%	28%	25%
Green Line D22	24%	31%	21%	23%	19%	30%	25%	23%	24%	32%	36%	34%	34%	27%
Gold Line D21	42%	43%	44%	20%	18%	18%	21%	24%	18%	20%	26%	12%	30%	26%
Gold Line D24	29%	40%	32%	20%	17%	21%	16%	11%	17%	21%	29%	26%	24%	23%

% Overtime of Work Force	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	13-Month Average
Blue Line D11	21%	23%	24%	26%	24%	24%	23%	23%	24%	24%	26%	26%	25%	24%
Expo Line D14	25%	27%	22%	26%	24%	20%	24%	22%	30%	28%	31%	34%	34%	27%
Red Line D20	23%	27%	26%	26%	21%	23%	23%	24%	26%	28%	29%	30%	23%	25%
Green Line D22	22%	23%	20%	22%	21%	26%	25%	32%	34%	31%	28%	31%	31%	27%
Gold Line D21	4%	3%	5%	2%	2%	5%	2%	4%	4%	2%	5%	2%	5%	3%
Gold Line D24	12%	13%	12%	11%	12%	12%	11%	10%	14%	11%	13%	13%	15%	12%

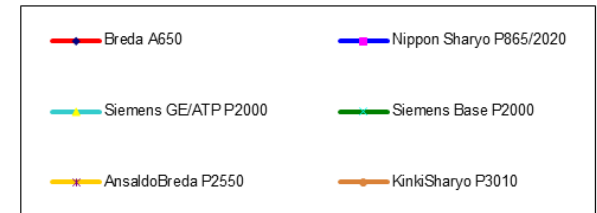
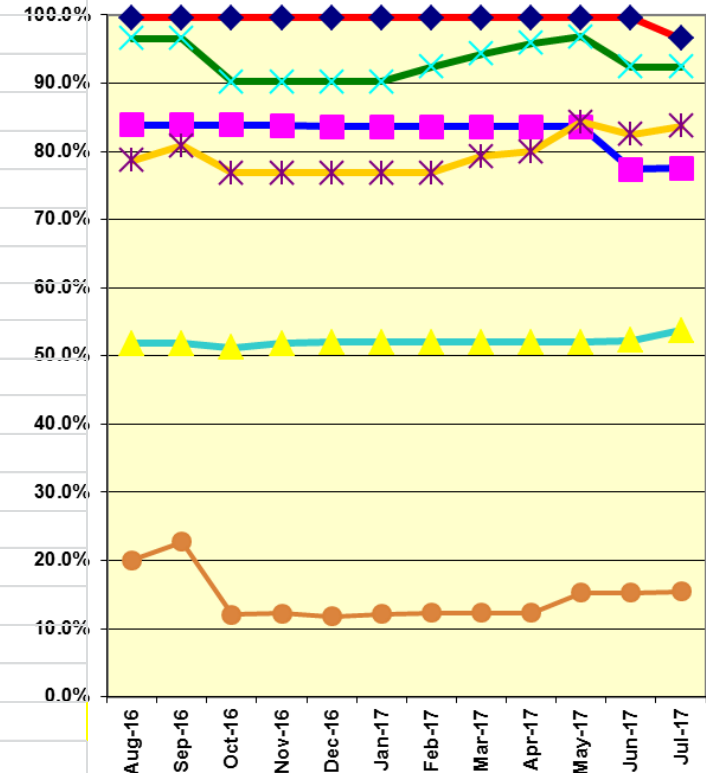
# RFS Instruction Department Activities

## July 2017

### LRV Training classes completed during the month of July 2017

Description	Course Hours	Student Count	Training Hours	
				100.0
<b><u>Blue Line Training - (P865/2020 &amp; P2000 LRVs):</u></b>				
RFS KINKISHARYO INTRO & MAINLINE RESPONSE	16	3	48	90.0
RFS SIMMONS WHEEL TRUE REFRESHER	16	4	64	
<b>Total Blue Line Training (Hours):</b>			<b>112</b>	80.0
<b><u>Gold Line Training - (P2550 &amp; P3010 LRVs)]:</u></b>				70.0
RFS ANSALDOBREDA 2550 COMMUNICATIONS	24	2	48	60.0
RFS ANSALDOBREDA 2550 DOORS	32	4	128	
RFS ANSALDOBREDA 2550 EVENT RECORDER	16	3	48	50.0
RFS BOCHUM 84 TIRE PRESSING (P2550, P3010)	16	3	48	
<b>Total Light Rail Training (Hours):</b>			<b>272</b>	40.0
<b><u>Expo Line Training - (P865/2020, P2000, &amp; P3010 LRVs):</u></b>				30.0
NONE	0	0	0	
<b>Total Expo Line Training (Hours):</b>			<b>0</b>	20.0
<b><u>Green Line Training (P2000 LRVs):</u></b>				10.0
RFS KINKISHARYO INTRO & MAINLINE RESPONSE	16	7	112	0.0
<b>Total Green Line Training (Hours):</b>			<b>112</b>	
<b><u>Total RFS Instruction for the month of July 2017 (Hours):</u></b>			<b>517</b>	
<b><u>Core Vehicle Training Completed:</u></b>	<b><u>BLUE</u></b>	<b><u>EXPO</u></b>	<b><u>GOLD</u></b>	<b><u>GREEN</u></b>
<b>Percentage of core vehicle training complete:</b>	<b>77.5%</b>	<b>21.3%</b>	<b>83.7%</b>	<b>92.4%</b>
Siemens P2000 training complete:	53.7%	39.8%	N/A	N/A
KinkiSharyo P3010 training complete:	0.5%	21.5%	23.9%	N/A
<b>Average Specialist Rail Experience Level in Years:</b>	<b>14.6</b>	<b>3.7</b>	<b>7.3</b>	<b>10.7</b>

### Core Training Completed



Variations caused by new hires, employee transfers,  
& training completed

# RFS Instruction Department Activities

## July 2017

### HRV & Other Training classes completed during the month of July 2017

<u>Description</u>	<u>Course Hours</u>	<u>Student Count</u>	<u>Training Hours</u>
<u>Red Line Training - Breda A650 HRV</u>			
None	0	0	0
<b>Total Red Line Training Hours</b>			<b>0</b>

<u>Other Training (RFS Created or Provided)</u>			
SAFETY AND THE HUMAN ELEMENT (Div 11)	1.5	8	12
SAFETY AND THE HUMAN ELEMENT (Div 14)	1.5	1	1.5
SAFETY AND THE HUMAN ELEMENT (DIV 21 & 24)	1.5	5	7.5
<b>Total Other Training Hours</b>			<b>21</b>

<u>Other Instruction Activities</u>	<u>Curriculum</u>	<u>Administrative</u>	<u>Technical Support</u>	<u>Total</u>
Curriculum, Administrative, and Technical Support	250	270	80	600
Time Off (HOL, TOV, & SCK)				120
<b>Total Other Instruction Activities</b>				<b>720</b>

<u>Core Vehicle Training Completed:</u>	<u>RED</u>
Percentage of Core Vehicle Training Complete:	<b>99.6%</b>
Average Specialist Rail Experience Level in Years:	<b>12.9</b>