



Rail Fleet Services Monthly Report October 2016

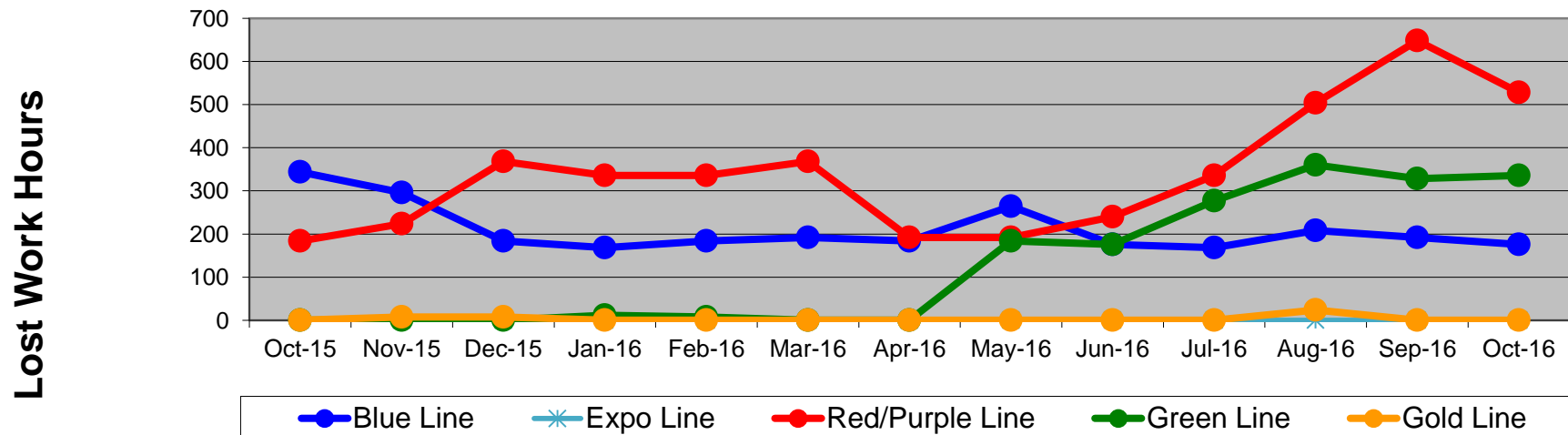
Table of Contents

•	Safety & Cleanliness		
	- Industrial Injuries	Page	3
	- Rail Vehicle Accidents & Major Incidents	Page	4
	- Car Cleanliness	Page	5
•	Customer Service		
	- Service Delivery – AM/PM Pull-Outs	Page	6
	- Vehicle Utilization – Red Line	Page	7
	- Vehicle Utilization – Blue Line & Expo Line	Page	8
	- Vehicle Utilization – Green Line & Gold Line	Page	9
	- All Train Delay Incidents	Page	10
	- Mean Miles Between Failures (Major)	Page	11
	- Mileage Between Data Range (by month)	Page	12
•	Business Processes		
	- Top Incident Categories	Page	13
	- Major Incidents	Page	14
	- Preventive Maintenance Compliance	Page	15
	- RFS Leader Wrench Turning	Page	16
•	Finance		
	- Vandalism & Graffiti Costs	Page	17
	- Vandalism & Graffiti Pictures	Page	18
	- Labor & Material Costs	Page	19
	- Cost per mile	Page	20
	- Absence vs. Overtime	Page	21
•	Growth		
	- RFS Instruction Department Activities	Page	22-23

Industrial Injuries – Lost Work Hours October 2015-2016

	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	13-Month Period
Blue Line	344	296	184	168	184	192	184	264	176	168	208	192	176	2,736
Expo Line	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red/Purple Line	184	224	368	336	336	368	192	192	240	336	504	648	528	4,456
Green Line	0	0	0	12	8	0	0	184	176	277	360	328	336	1,681
Gold Line	0	8	8	0	0	0	0	0	0	0	24	0	0	40
Totals	528	528	560	516	528	560	376	640	592	781	1,096	1,168	1,040	8,913

Industrial Injuries (lost work hours)



Rail Vehicle Accidents & Major Incidents

October 2015-2016

Repair Costs	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	13-Month Period
Blue Line	\$40,969	\$65,454	\$17,160	\$4,570	\$7,379	\$2,037	\$1,232	\$513	\$0	\$0	\$3,211	\$665	\$28,089	\$171,279
Expo Line	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$576	\$0	\$12,921	\$9,468	\$22,965
Red/Purple Line	\$0	\$0	\$0	\$0	\$0	\$0	\$1,284	\$0	\$1,932	\$840	\$552	\$0	\$0	\$4,608
Green Line	\$1,205	\$0	\$23	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$51,535	\$0	\$0	\$52,763
Gold Line	\$1,074	\$1,547	\$1,547	\$0	\$53	\$1,487	\$4,646	\$0	\$19,451	\$564	\$0	\$0	\$5,694	\$36,063
Totals	\$43,248	\$67,001	\$18,730	\$4,570	\$7,432	\$3,524	\$7,162	\$513	\$21,383	\$1,980	\$55,298	\$13,586	\$43,251	\$287,678

Rail Vehicle Accident Costs - October 2016				
Date	Incident #	Problem Code	Incident Description	Repair Cost
Metro Blue Line				
10/8/16	2786341	Train vs. Pedestrian	A 10-72 was reported at NB Imperial Pedestrian Grade Crossing, Track 1.	\$ 529
10/9/16	2786391	Train vs. Vehicle	A 10-73 was reported at Washington Blvd. and Broadway Ave., Track 1, NB.	\$ 16,052
10/19/16	2790362	Train vs. Vehicle	A 10-73 was reported, train struck auto attempting left turn in front of train into parking lot under I-10 Freeway.	\$ 10,918
10/19/16	2790399	Train vs. Vehicle	A 10-73 was reported at Florence Crossing, Track 2, SB.	\$ 590
Metro Blue Line Total				\$ 28,089
Metro Expo Line				
10/17/16	2789446	Train vs. Pedestrian	A 10-72 was reported at Arlington Pedestrian Grade Crossing, Track 3, NB.	\$ 9,468
Metro Expo Line Total				\$ 9,468
Metro Gold Line				
10/6/16	2785672	Train vs. Pedestrian	A 10-72 was reported at Avenue 57, Track 1, NB.	\$ 177
10/9/16	2786375	Train vs. Vehicle	A 10-73 was reported, hit & run incident, SB Avenue 52.	\$ 5,787
Metro Gold Line Total				\$ 5,964
Metro Green Line				
10/19/16	2790508	Train vs. Object (Bicycle)	A 10-71 was reported at Harbor Station, Track 2, EB.	\$ -
Metro Green Line Total				\$ -
Grand Total				\$ 43,521
10-71 = Train vs. Object/ 10-72 = Train vs. Pedestrian/ 10-73 = Train vs. Vehicle/ 10-74 = Train vs. MTA Vehicle/ 10-75 = Derailment				

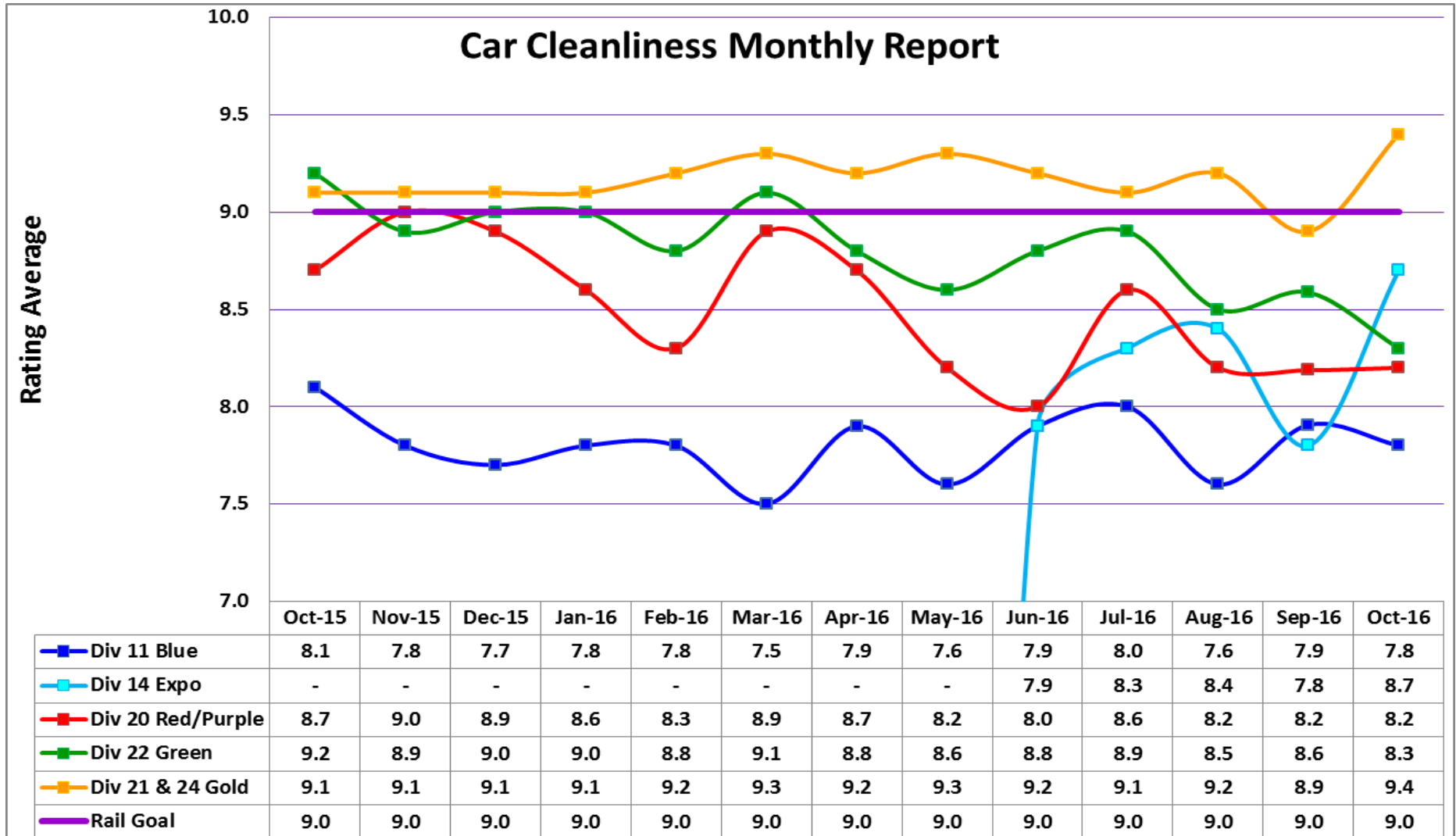


Note: Repair costs are only the expenses captured during the time period of the report. Actual costs may be significantly higher, if repairs are spread out over several months.

Metro

Rail Vehicle – Car Cleanliness

October 2015-2016



Service Delivery October 2016

October 2016 - Service Delivery

Blue Line Fleet Size: 69

	<u>Average Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
Pull Out			
Weekday:	60	59	98%
Weekend:	26	47	181%

Monthly Mileage: 455,454

Expo Line Fleet Size: 44

	<u>Average Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
Pull Out			
Weekday:	28	35	125%
Weekend:	29	35	121%

Monthly Mileage: 265,524

Red/Purple Line Fleet Size: 104

	<u>Average Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
Pull Out			
Weekday:	74	78	105%
Weekend:	54	66	122%

Monthly Mileage: 619,716

Green Line Fleet Size: 29

	<u>Average Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
Pull Out			
Weekday:	22	22	100%
Weekend:	14	16	114%

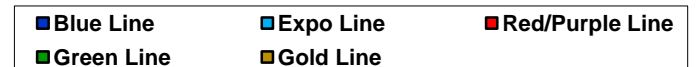
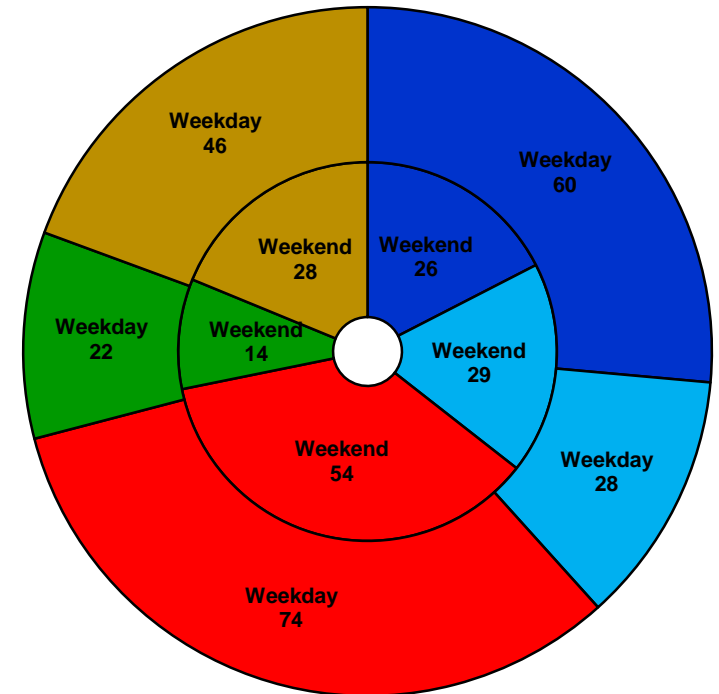
Monthly Mileage: 230,212

Gold Line Fleet Size: 60

	<u>Average Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
Pull Out			
Weekday (Div 21):	10	10	100%
Weekday (Div 24):	36	38	106%
Weekend (Div 24):	28	38	136%

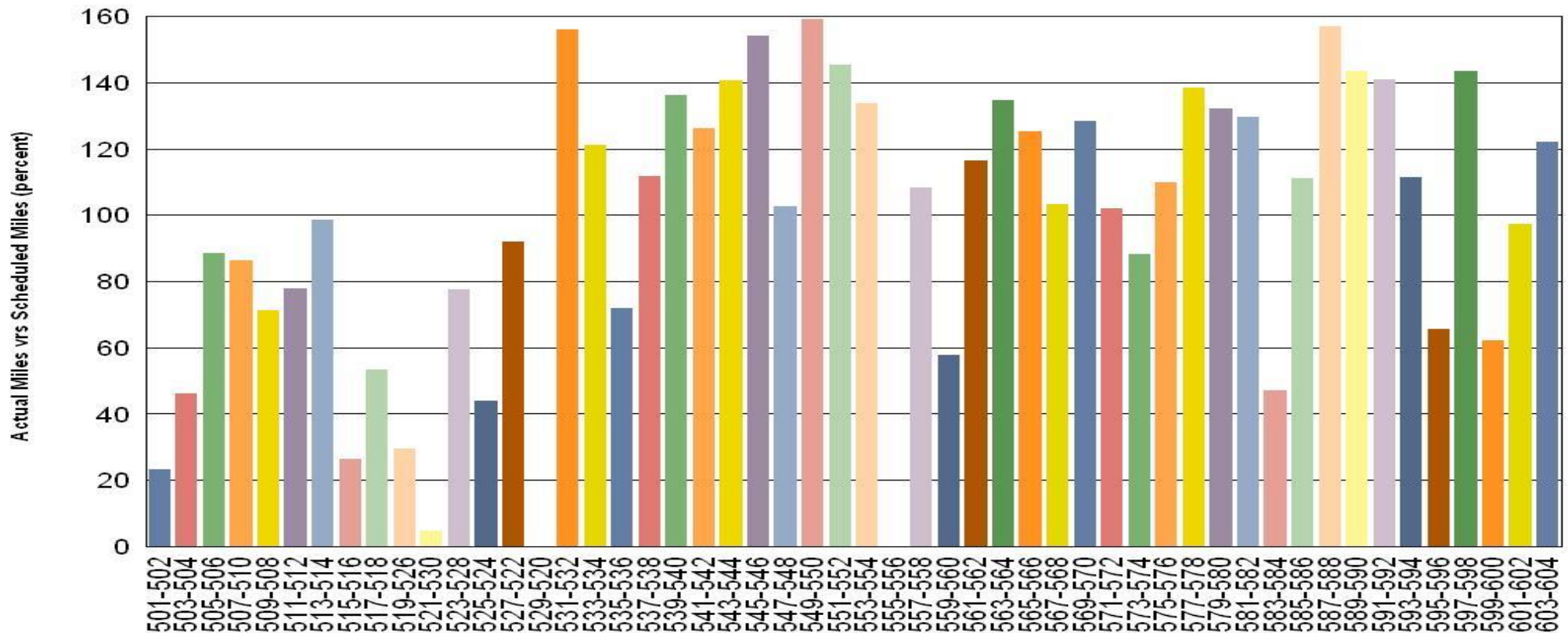
***Monthly Mileage: 489,955**

* Gold Line monthly mileage includes Division 21 and 24.



Vehicle Utilization October 2016

Metro Red/Purple Line (104 Cars)



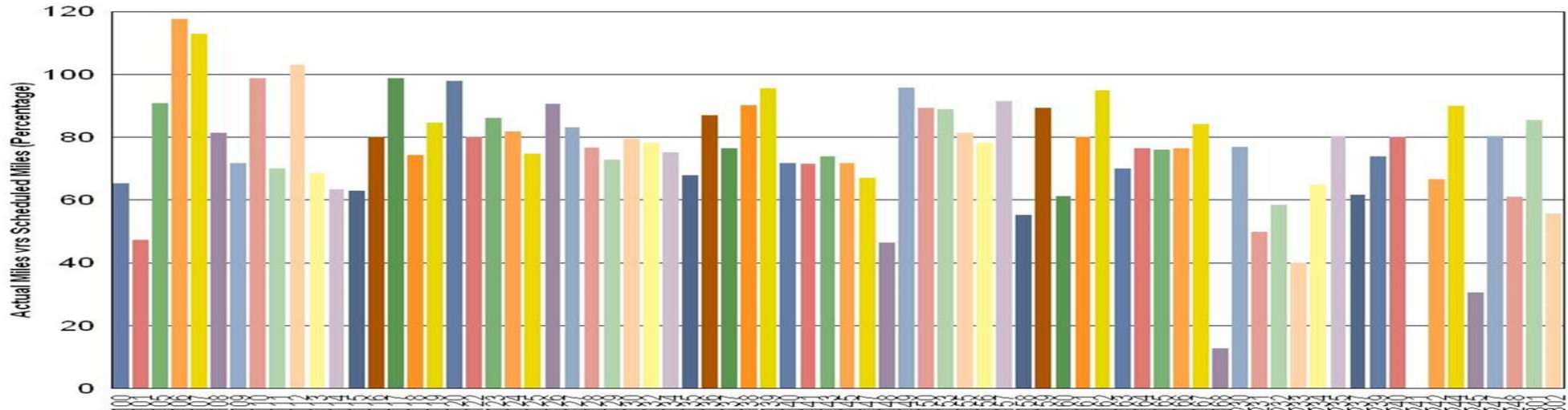
Red/Purple Line:

The following cars were out of service due to:

- Car # 501-502 – Propulsion Fault
- Car # 515-516 – Propulsion Fault
- Car # 519-526 – Component Overhaul
- Car # 521-530 – Emergency Brake Application Problem
- Car # 529-520 – Waiting for Blower Motors
- Car # 555-556 – Floor Replacement Project

Vehicle Utilization October 2016

Metro Blue Line (69 Cars)



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

Car # 168 – Accident Repair

Car # 241 – B-Truck/Missing Parts

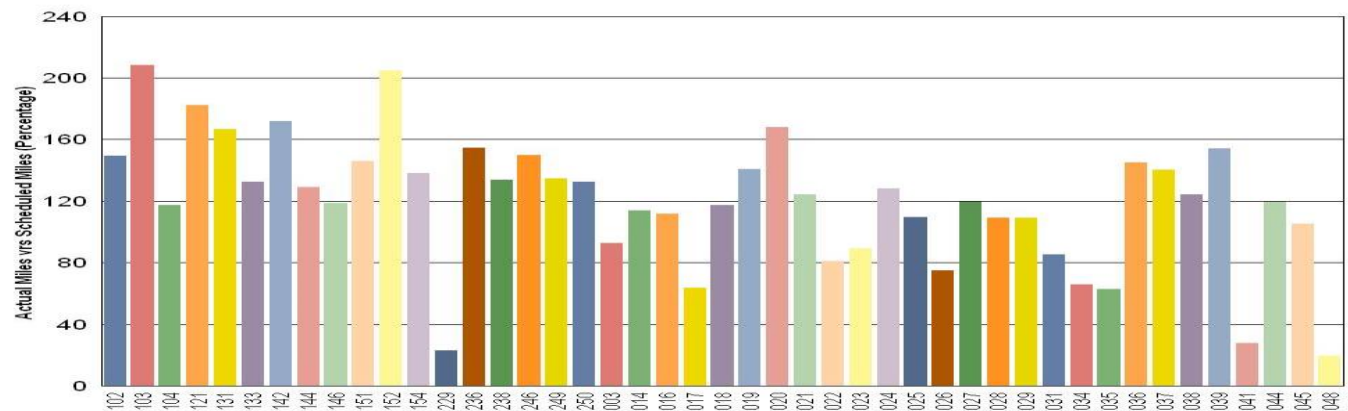
Car # 245 – 90K Inspection/Work Orders/Air Hose Campaign

Metro Expo Line (44 Cars)

Expo Line: The following cars were out of service due to:

Car # 229 – HVAC Issues/Inspection

Car # K1041, K1048 – New Accepted
10/20/2016



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

Vehicle Utilization October 2016

Metro Green Line (29 Cars)

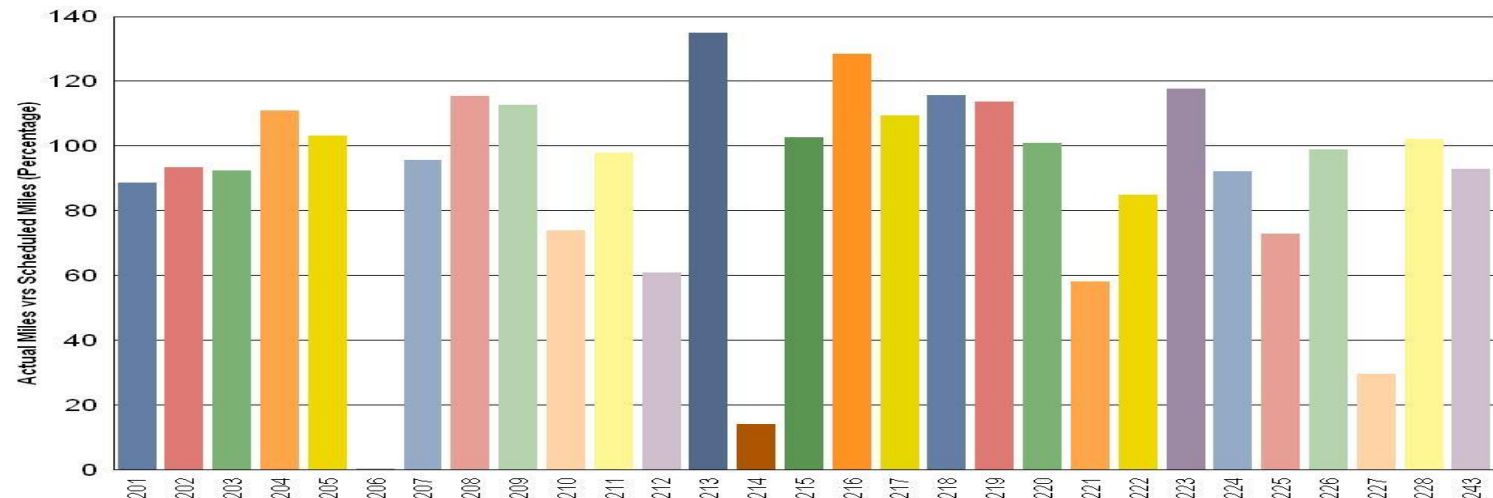
Green Line:

The following cars were out of service due to:

Car # 206 – Engineering Hold (EMI)

Car # 214 – Ext Paint/Body Rehab

Car # 227 – Propulsion Fault



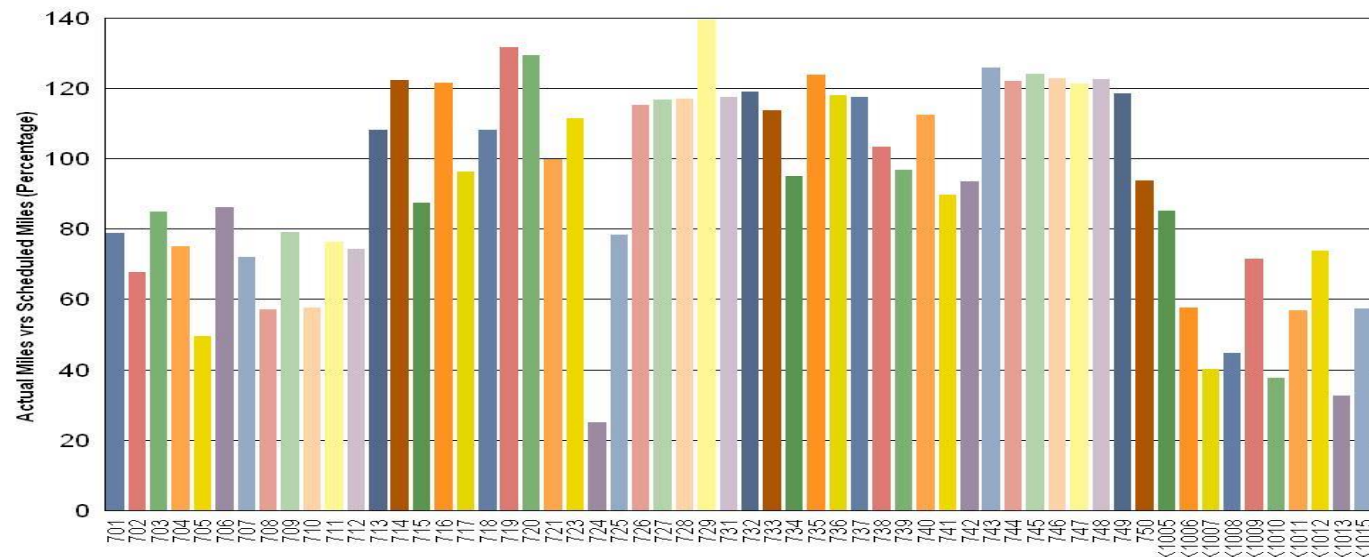
Metro Gold Line (60 Cars)

Gold Line:

The following cars were out of service due to:

Car # 724 – ATP and LON Fault Problem

Car # K1010 & K1013 – 30K PM Inspection & Warranty Repairs

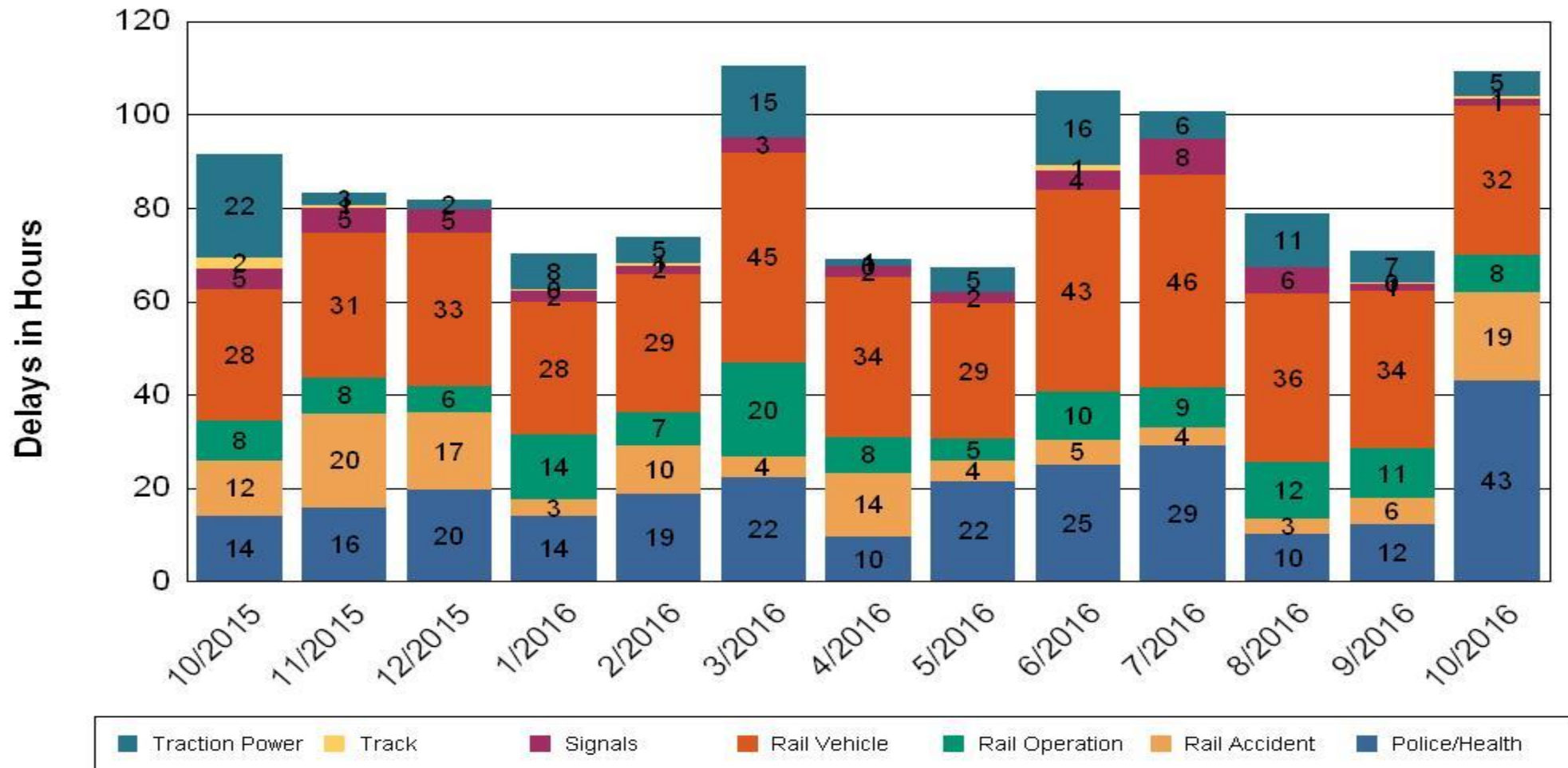


•Percentage includes an average 4% mileage deduction for yard mileage and vehicle testing.

All Train Delays (Hours) October 2015-2016

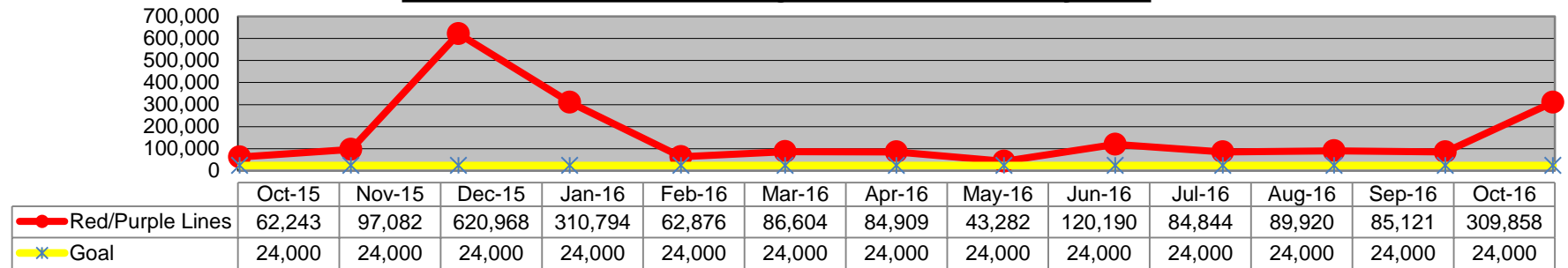
All Train Delays

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

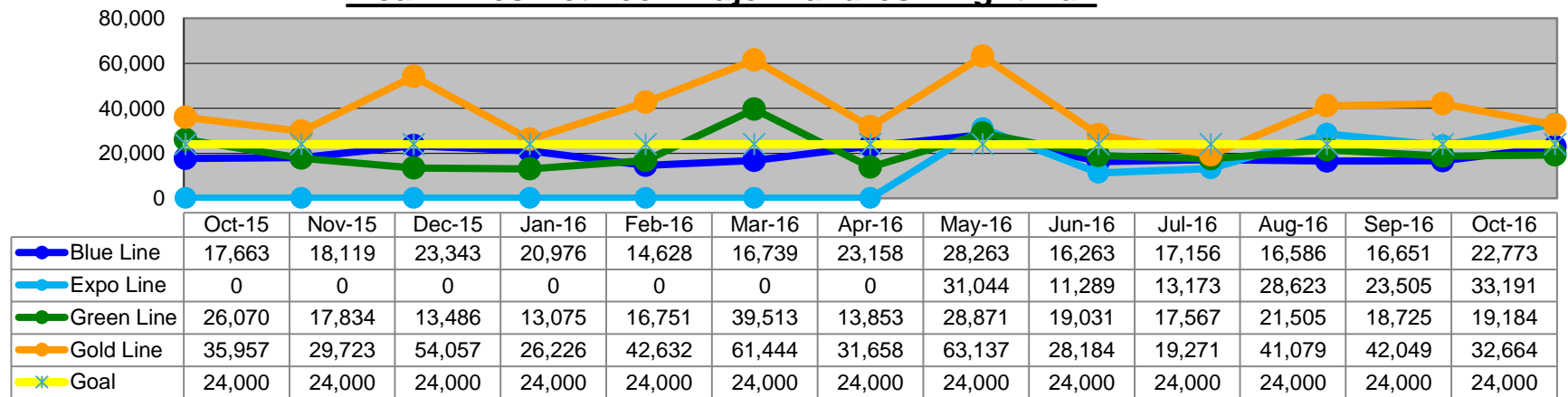


Mean Miles Between Failures (Major) October 2015-2016

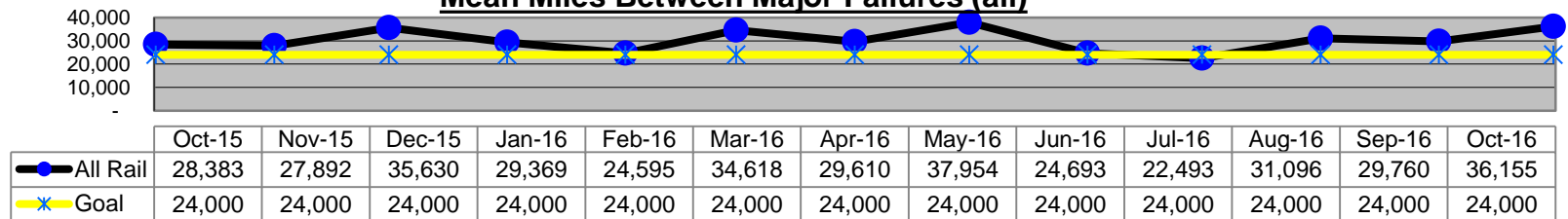
Mean Miles Between Major Failures - Heavy Rail



Mean Miles Between Major Failures - Light Rail

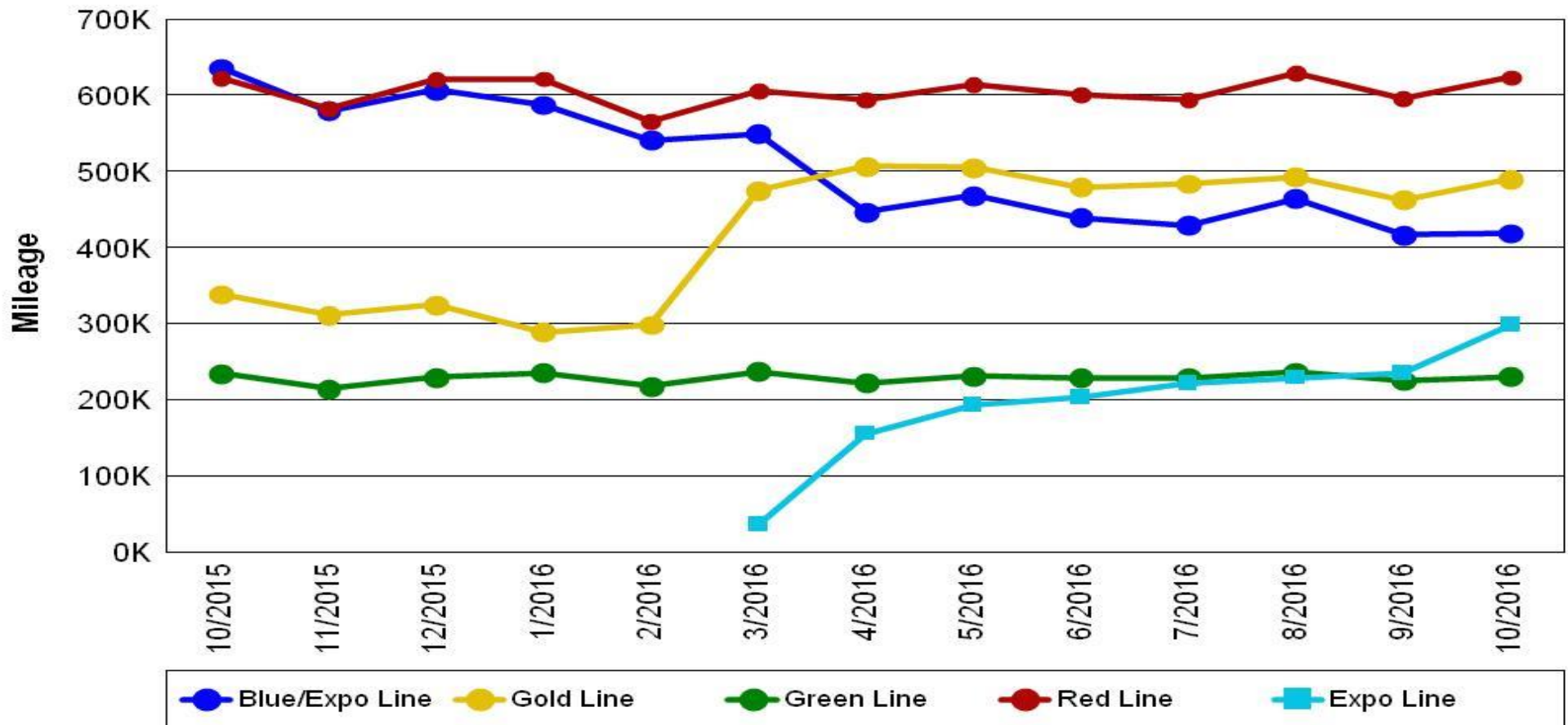


Mean Miles Between Major Failures (all)



Mileage Between Data Range (by month) October 2015-2016

Rail Division Monthly Mileage



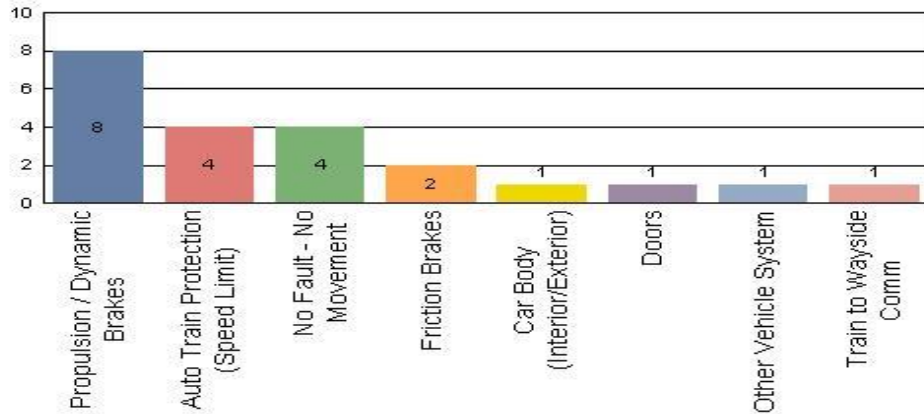
Notes:

- ❖ 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 October 2016

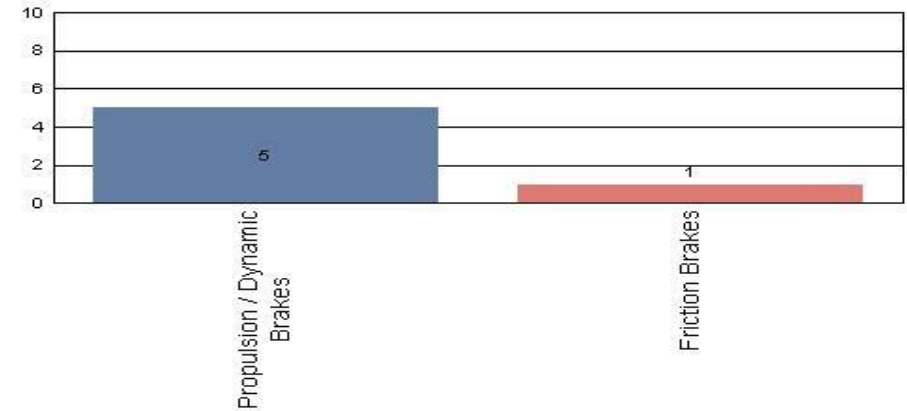
Metro Blue Line (Div 11)

Top Incident Categories



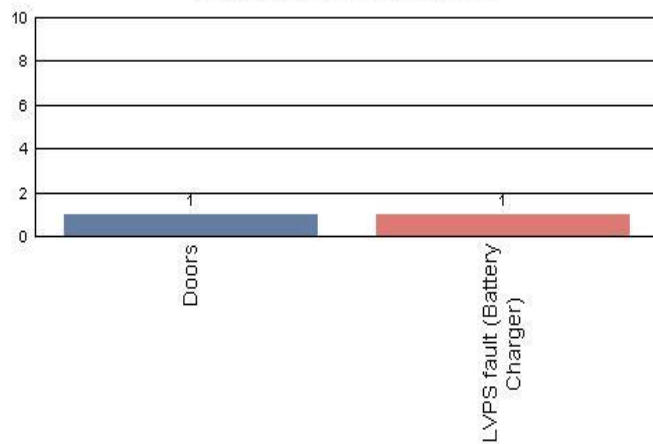
Metro Expo Line (Div 14)

Top Incident Categories



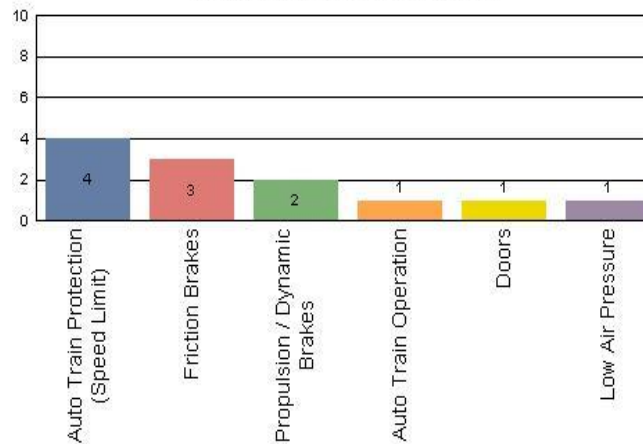
Metro Red/Purple Line (Div 20)

Top Incident Categories



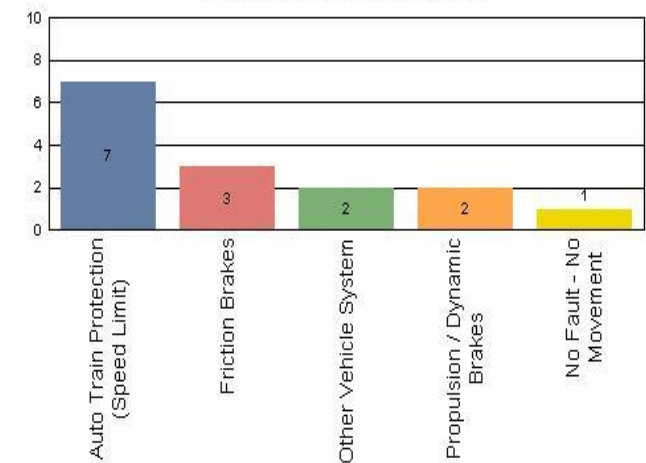
Metro Green Line (Div 22)

Top Incident Categories



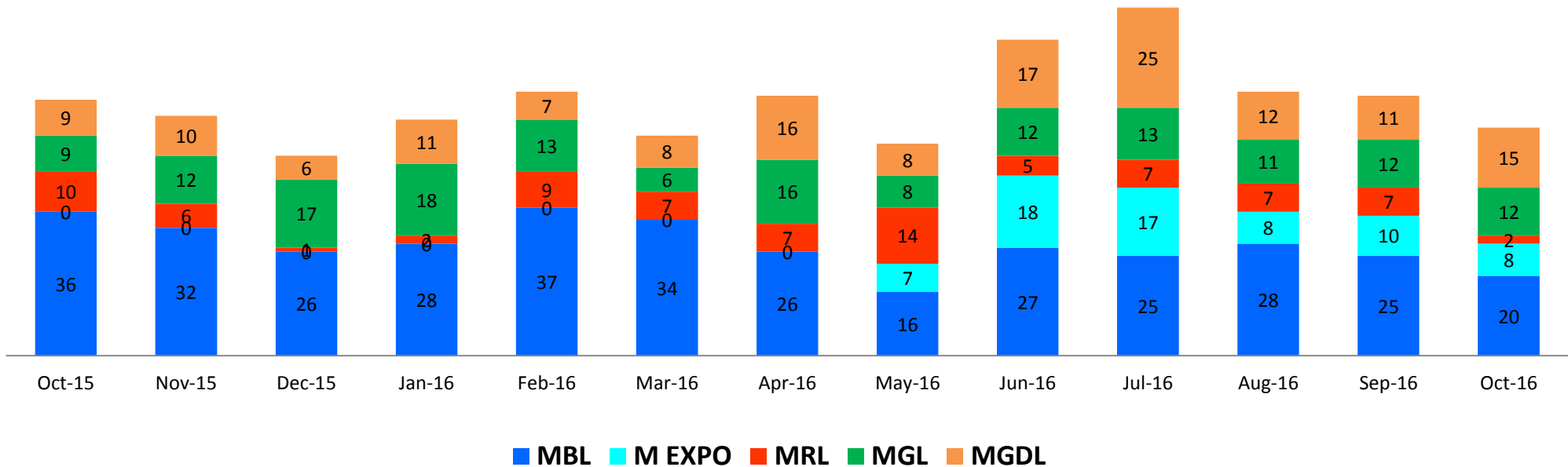
Metro Gold Line (Div 21 & Div 24)

Top Incident Categories



Major Incidents October 2015-2016

Numbers of Major System Failures (by Line)



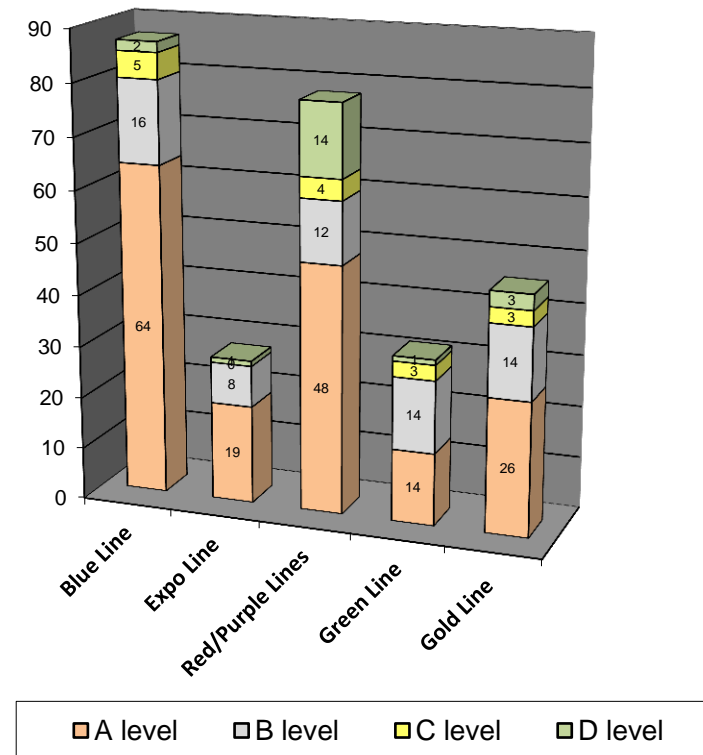
Preventive Maintenance Compliance

October 2015-2016

PM Compliance	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
Blue Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Expo Line	0%	0%	0%	0%	0%	0%	0%	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%	93%	97%	97%	100%	100%	100%	93%	100%	100%	100%	97%	100%
Gold Line	94%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

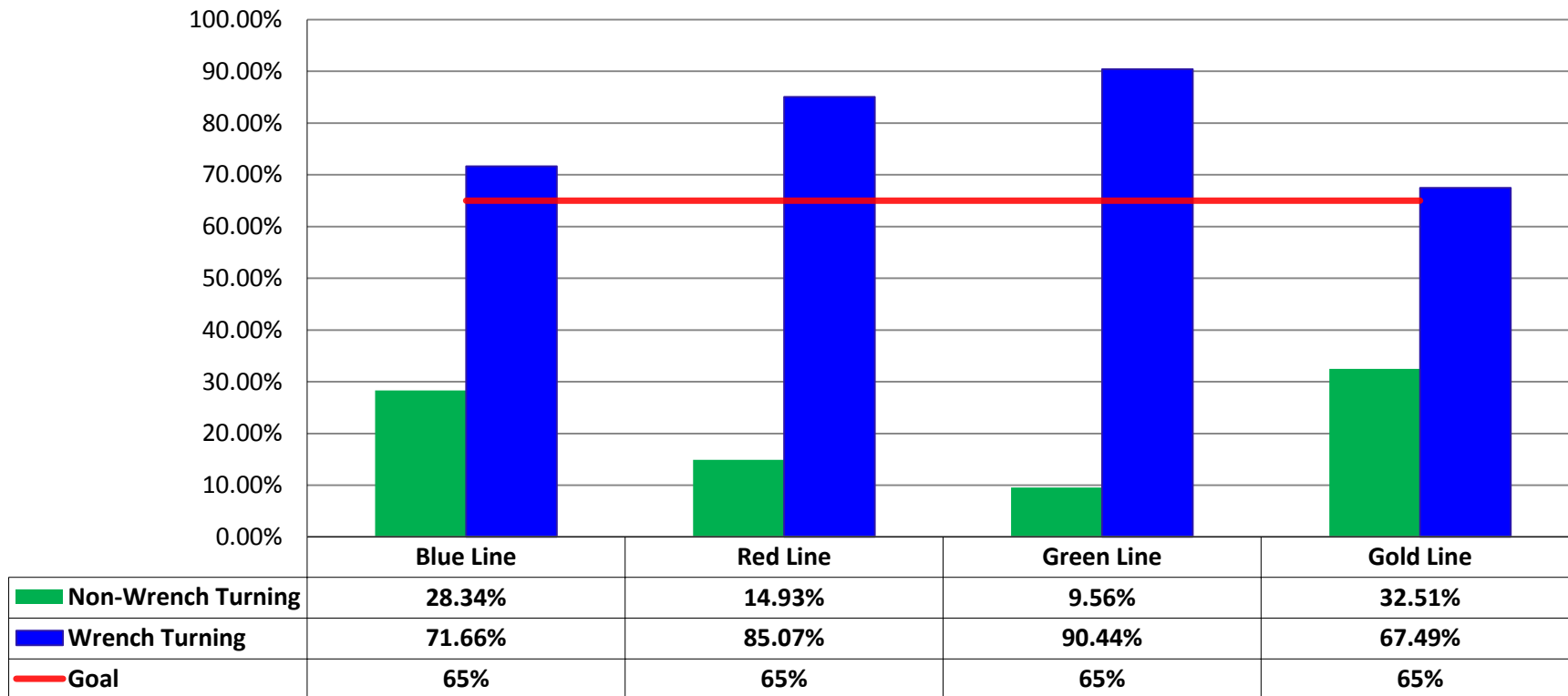
Number of Preventive Maintenance Inspections - October 2016					
Line	A level	B level	C level	D level	Totals
Blue Line	64	16	5	2	87
Expo Line	19	8	0	1	28
Red/Purple Lines	48	12	4	14	78
Green Line	14	14	3	1	32
Gold Line	26	14	3	3	46
Totals:	171	64	15	21	271

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 October 2016

RFS - Leader Wrench Turning October 2016

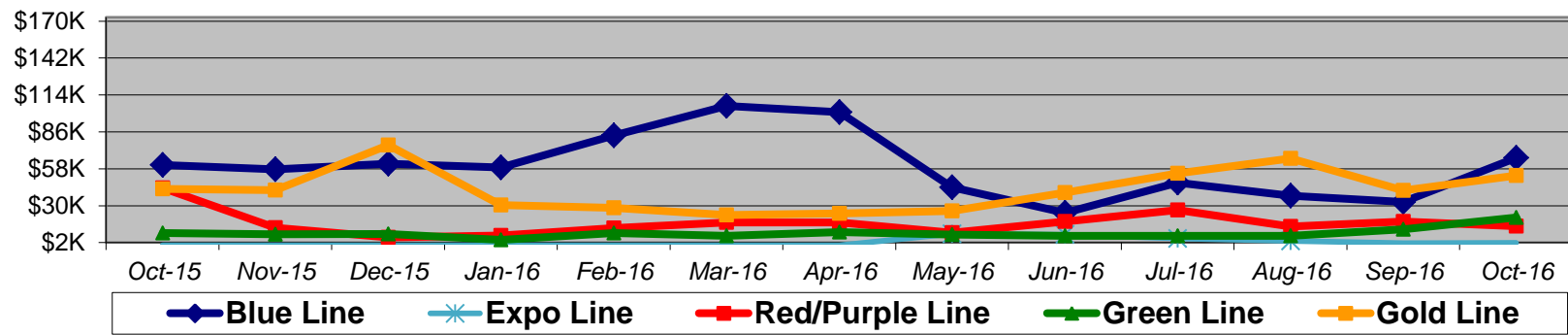


Notes: Labor hours contributed by Maint Specialist Leader, Rail Body/Paint Repair Leader, and Maint Specialist Temporary Leader

Vandalism & Graffiti Report

October 2015-2016

Graffiti Costs														
	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	13-Month Period
Blue Line	\$61K	\$58K	\$62K	\$59K	\$83K	\$106K	\$101K	\$44K	\$24K	\$48K	\$38K	\$33K	\$66K	\$782K
Expo Line	\$K	\$K	\$K	\$K	\$K	\$K	\$K	\$9K	\$8K	\$5K	\$3K	\$2K	\$2K	\$28K
Red/Purple Line	\$43K	\$13K	\$6K	\$7K	\$13K	\$17K	\$17K	\$9K	\$18K	\$27K	\$14K	\$18K	\$14K	\$219K
Green Line	\$9K	\$8K	\$9K	\$4K	\$9K	\$7K	\$10K	\$8K	\$7K	\$7K	\$7K	\$12K	\$21K	\$119K
Gold Line	\$43K	\$42K	\$76K	\$30K	\$28K	\$23K	\$24K	\$26K	\$40K	\$54K	\$66K	\$42K	\$53K	\$547K
Totals:	\$156K	\$121K	\$152K	\$101K	\$134K	\$153K	\$153K	\$96K	\$98K	\$141K	\$128K	\$106K	\$157K	\$1,696K



October 2016 Vandalism & Graffiti - All Rail				
	Qty	Labor	Materials	Totals
Windows Replaced	71	\$ 11,718	\$ 30,844	\$ 42,562
Vandal Shields Replaced	760	\$ 33,978	\$ 15,599	\$ 49,577
Seats Cleaned	405	\$ 1,680	\$ 112	\$ 1,792
Seats Inserts Replaced	254	\$ 10,500	\$ 9,013	\$ 19,513
Graffiti Removal - Other	1,399	\$ 33,015	\$ 3,754	\$ 36,769
Repainting Panels	200	\$ 6,300	\$ -	\$ 6,300
Totals	3,089	\$ 97,191	\$ 59,322	\$ 156,513

Vandalism & Graffiti Pictures October 2016

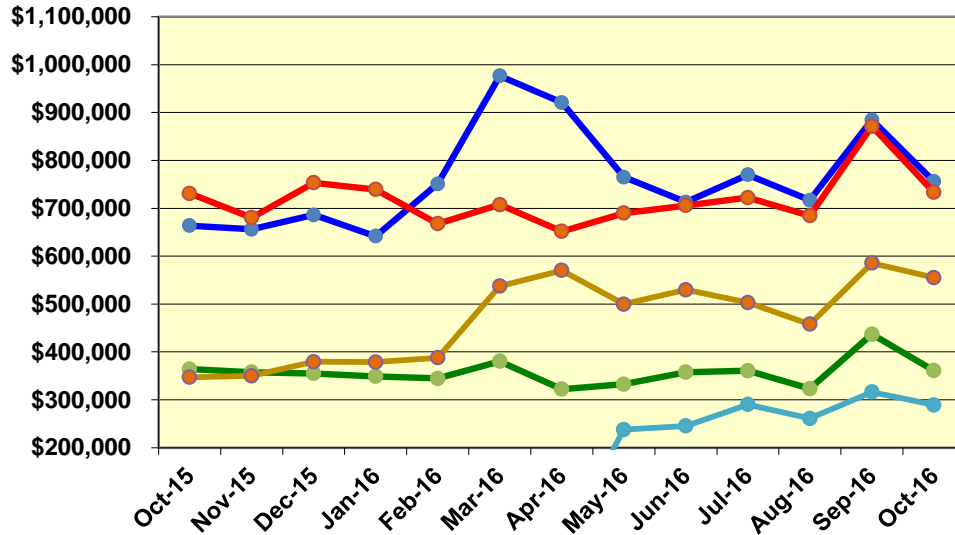
Blue Line



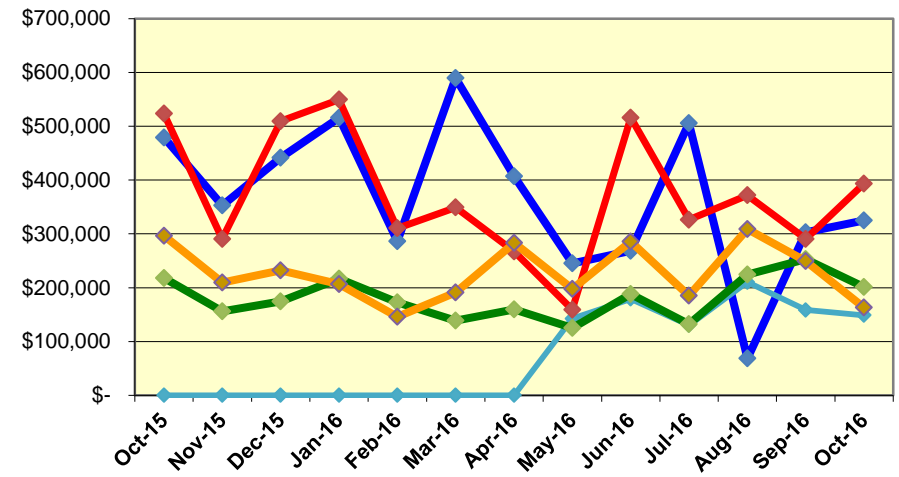
Labor and Material Costs

October 2015-2016

Labor Costs



Material Costs



Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16
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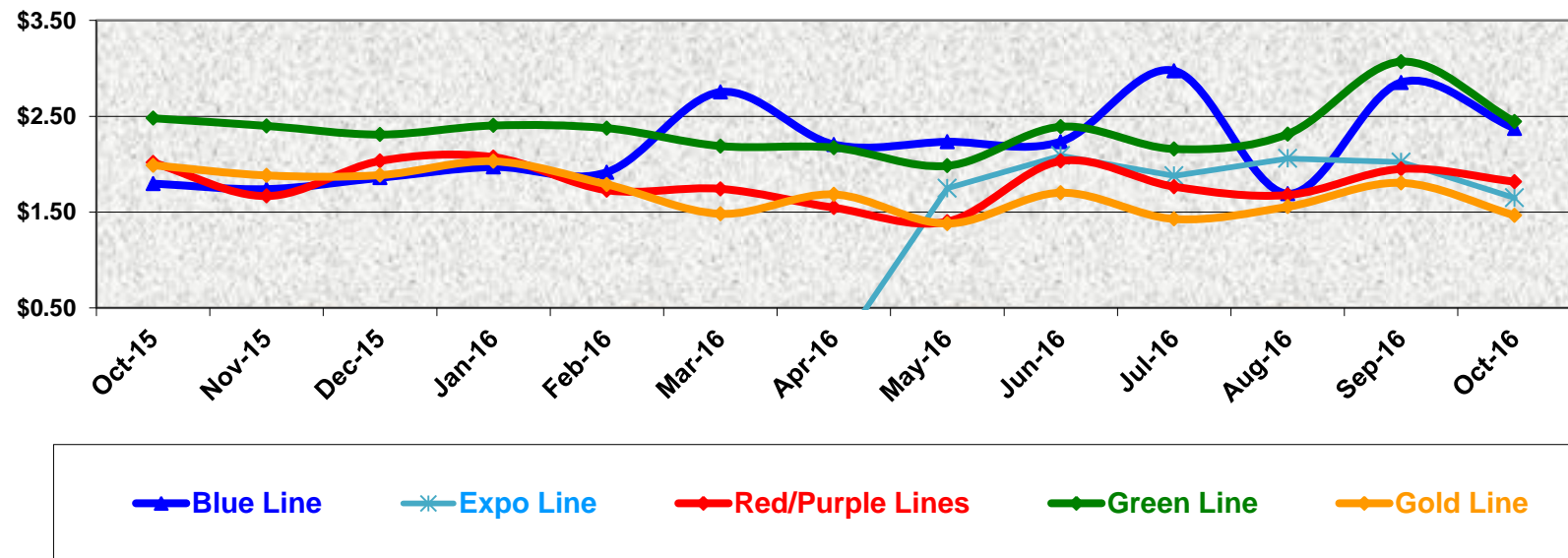
	Labor Costs												
Blue Line	\$ 663,965	\$ 656,195	\$ 686,227	\$ 641,613	\$ 750,961	\$ 976,568	\$ 920,945	\$ 765,108	\$ 712,774	\$ 770,143	\$ 716,923	\$ 884,555	\$ 755,958
Expo Line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 237,630	\$ 245,339	\$ 290,199	\$ 261,217	\$ 316,395	\$ 289,213
Red/Purple Lines	\$ 731,128	\$ 680,629	\$ 753,216	\$ 739,336	\$ 667,772	\$ 707,560	\$ 651,771	\$ 689,764	\$ 705,772	\$ 722,363	\$ 684,555	\$ 871,431	\$ 733,202
Green Line	\$ 363,868	\$ 357,622	\$ 355,057	\$ 349,152	\$ 344,701	\$ 380,356	\$ 322,108	\$ 332,662	\$ 357,807	\$ 360,682	\$ 323,087	\$ 436,825	\$ 360,963
Gold Line	\$ 347,072	\$ 350,038	\$ 379,336	\$ 378,751	\$ 387,820	\$ 537,337	\$ 570,186	\$ 499,874	\$ 529,761	\$ 502,967	\$ 458,067	\$ 585,582	\$ 555,213
Totals	\$ 2,106,033	\$ 2,044,483	\$ 2,173,836	\$ 2,108,852	\$ 2,151,255	\$ 2,601,822	\$ 2,465,011	\$ 2,525,038	\$ 2,551,454	\$ 2,646,353	\$ 2,443,849	\$ 3,094,789	\$ 2,694,548

	Material Costs												
Blue Line	\$ 478,960	\$ 352,710	\$ 441,523	\$ 515,933	\$ 286,531	\$ 589,879	\$ 407,085	\$ 245,001	\$ 268,750	\$ 505,721	\$ 68,670	\$ 303,202	\$ 324,999
Expo Line	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 142,495	\$ 179,099	\$ 130,419	\$ 210,312	\$ 158,666	\$ 148,670
Red/Purple Lines	\$ 523,558	\$ 290,721	\$ 509,448	\$ 549,576	\$ 310,489	\$ 349,093	\$ 267,284	\$ 159,258	\$ 515,978	\$ 326,251	\$ 371,920	\$ 290,597	\$ 393,507
Green Line	\$ 217,820	\$ 155,914	\$ 174,269	\$ 216,535	\$ 172,625	\$ 138,673	\$ 159,615	\$ 125,334	\$ 188,111	\$ 132,247	\$ 224,414	\$ 252,988	\$ 201,438
Gold Line	\$ 296,684	\$ 209,546	\$ 232,338	\$ 206,856	\$ 145,891	\$ 191,351	\$ 283,211	\$ 197,620	\$ 285,877	\$ 185,153	\$ 308,906	\$ 249,398	\$ 162,899
Totals	\$ 1,517,022	\$ 1,008,891	\$ 1,357,578	\$ 1,488,899	\$ 915,536	\$ 1,268,996	\$ 1,117,195	\$ 869,708	\$ 1,437,815	\$ 1,279,791	\$ 1,184,222	\$ 1,254,851	\$ 1,231,513

Cost Per Mile October 2015-2016

Cost per mile:	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Average
Blue Line	\$1.80	\$1.74	\$1.86	\$1.97	\$1.92	\$2.75	\$2.21	\$2.23	\$2.24	\$2.97	\$1.69	\$2.85	\$2.37	\$2.20
Expo Line	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1.75	\$2.09	\$1.88	\$2.06	\$2.02	\$1.65	\$1.91
Red/Purple Lines	\$2.02	\$1.67	\$2.03	\$2.07	\$1.73	\$1.74	\$1.55	\$1.40	\$2.03	\$1.77	\$1.68	\$1.95	\$1.82	\$1.80
Green Line	\$2.48	\$2.40	\$2.31	\$2.40	\$2.38	\$2.19	\$2.17	\$1.98	\$2.39	\$2.16	\$2.31	\$3.07	\$2.44	\$2.36
Gold Line	\$1.99	\$1.88	\$1.89	\$2.03	\$1.79	\$1.48	\$1.68	\$1.38	\$1.70	\$1.43	\$1.56	\$1.81	\$1.47	\$1.70

Cost per Mile



ATU Absences vs. Overtime

October 2016

ABSENCE TYPE and HOURS	3941 Blue	3947 Expo	3942 Red	3943 Green	3944 Gold	3948 Monrovia	Total
AWP-ABSENT W/O PERMISSION	1	-	-	-	-	-	1
BER-BEREAVEMENT	24	-	64	8	-	16	112
CTO-COMPENSATORY TIME OFF	132	192	221	112	-	216	873
CUT-EMPLOYEE LEAVES EARLY	-	-	-	0	-	-	0
DSL-DISABILITY LEAVE/LONG	560	176	352	-	-	-	1,088
EFH-EMG. FLOAT HOL.	8	24	16	32	16	40	136
ETO-EXCUSED TIME OFF	100	19	49	11	1	25	204
FMI-FAM IND INJURY	32	8	272	-	168	-	480
FML-FAMILY CARE LEAVE	884	40	120	200	56	240	1,540
FMS-FAMILY LEAVE SICK	261	40	48	48	8	40	445
HLF-HOLIDAY FLOATING	328	80	160	112	48	248	976
II-INDUSTRIAL INJURY	8	-	-	160	-	-	168
JUR-JURY DUTY	32	-	32	-	-	-	64
LC1-LABOR CODE 233	152	40	112	80	32	79	495
LTI-OCCPIL/LONGTRM INJ LEAVE	168	-	528	176	-	-	872
RTO-REQUESTED TIME OFF-NO PAY	8	-	8	1	-	-	17
SCK-SICK PAY	264	72	259	31	48	144	818
SCW-SICK WITHOUT PAY	32	-	24	104	-	12	172
SPN-SCHOOL PARTNER NOT PAID	-	-	-	-	-	16	16
TAR-TARDY	2	0	1	1	-	2	6
VAC-VACATION	976	304	1,615	396	204	524	4,020
VAS-VACATION WHILE SICK	-	-	19	-	-	-	19
*TRAINING	480	-	-	256	-	480	1,216
Total Absence Hours	4,451	995	3,901	1,729	581	2,081	13,737
**ATU Number of Work Force (active)	104	36	104	44	17	61	366
Full Work Force hours/month	18,023	6,239	18,023	7,625	2,946	10,573	63,428
Absence as a % of Work Force	25%	16%	22%	23%	20%	20%	22%

OVERTIME TYPE and HOURS	3941 Blue	3947 Expo	3942 Red	3943 Green	3944 Gold	3948 Monrovia	Total
CTB-COMPENSATORY TIME TO BANK	137	63	270	16	-	206	692
OTP-PREM OVERTIME	4,387	1,421	4,094	1,565	25	916	12,409
WLO-Worked Lunch Overtime	154	120	238	97	24	74	707
Total Overtime Hours	4,678	1,604	4,602	1,678	49	1,197	13,808
Overtime as a % of Work Force	26%	26%	26%	22%	2%	11%	22%

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

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

RFS Instruction Department Activities

October 2016

LRV Training classes completed during the month of October 2016

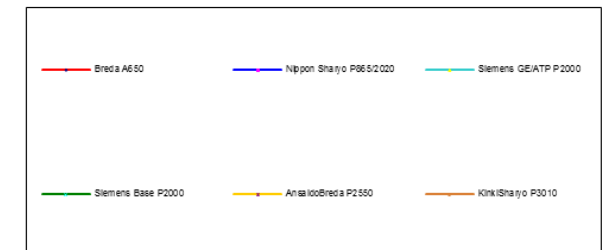
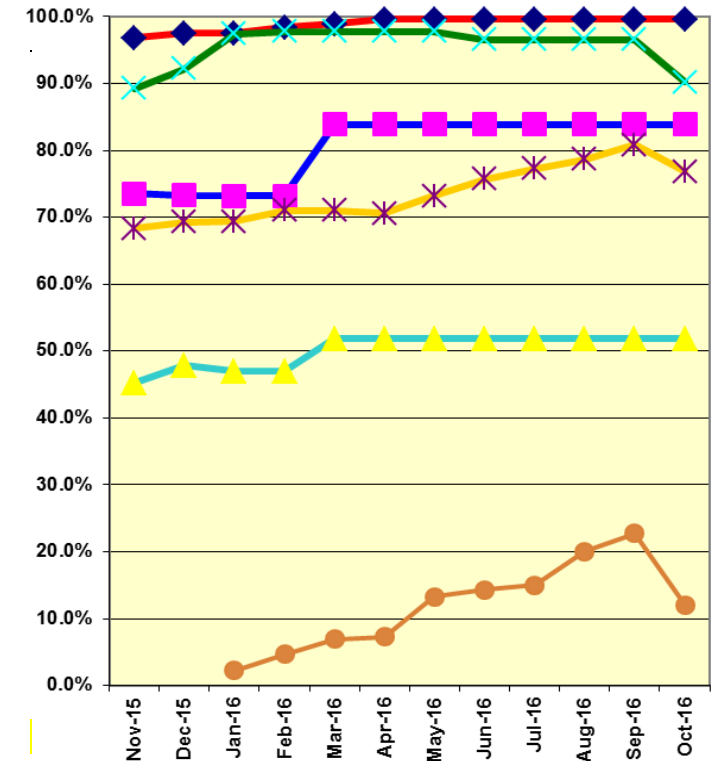
Description	Course Hours	Student Count	Training Hours
<u>Blue Line Training - (P865/2020 & P2000 LRVs):</u>			
RFS SIEMENS 2000 PROPULSION	80	5	400
RFS 2-WEEK RAIL INTRODUCTION	80	1	80
Total Blue Line Training (Hours):			480
<u>Light Rail Training [In Monrovia (P2550 LRVs) JAC]:</u>			
RFS ANSALDOBREDA 2550 CARBODY	16	5	80
RFS ANSALDOBREDA 2550 PROPULSION	80	5	400
Total Light Rail Training (Hours):			480
<u>Expo Line Training - (P865/2020, P2000, & P3010 LRVs):</u>			
No vehicle training this month			0
Total Expo Line Training (Hours):			0
<u>Gold Line Training (P2550 LRVs):</u>			
No vehicle training this month			0
Total Gold Line Training (Hours):			0
<u>Green Line Training (P2000 LRVs):</u>			
RFS 2-WEEK RAIL INTRODUCTION	80	2	160
RFS SIMMONS WHEEL TRUE	24	4	96
Total Green Line Training (Hours):			256

Total RFS Instruction for the month of October 2016 (Hours): 1,216

Core Vehicle Training Completed: **BLUE** **EXPO** **GOLD** **GREEN**

Percentage of core vehicle training complete:	83.9%	33.1%	76.8%	90.2%
Siemens P2000 training complete:	51.8%	45.2%	N/A	N/A
KinkiSharyo P3010 training complete:	0.5%	18.1%	23.9%	N/A
Average Specialist Rail Experience Level in Years:	15.1	3.6	6.9	10.1

Core Training Completed



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

RFS Instruction Department Activities

October 2016

HRV & Other Training classes completed during the month of October 2016

<u>Description</u>	<u>Course Hours</u>	<u>Student Count</u>	<u>Training Hours</u>
Red Line Training - Breda A650 HRV:			
NO VEHICLE TRAINING THIS MONTH	0	0	0
Total Red Line Training Hours			0

<u>Other Instruction Activities</u>	<u>Curriculum</u>	<u>Administrative</u>	<u>Technical Support</u>	<u>Total</u>
A650 Curriculum, Administrative, and Technical Support	40	24	96	160
P865/P2020 Curriculum, Administrative, and Technical Support	8	24	24	56
P2000 Curriculum, Administrative, and Technical Support	32	32	32	96
P2550 Curriculum, Administrative, and Technical Support	144	48	56	248
P3010 Curriculum, Administrative, and Technical Support	300	24	0	324
Time Off (HOL, TOV, & SCK)				100
Total Other Instruction Activities				984

Notes: Five Instructors trained for video downloading and converting

40

<u>Core Vehicle Training Completed:</u>	<u>RED</u>	JAC Core	<u>JAC</u>
Percentage of Core Vehicle Training Complete:	99.6%	(P2000)	16.90%
		(P2550)	14.30%
Average Specialist Rail Experience Level in Years:	12.7		0.3