



Rail Fleet Services Monthly Report April 2014



Metro

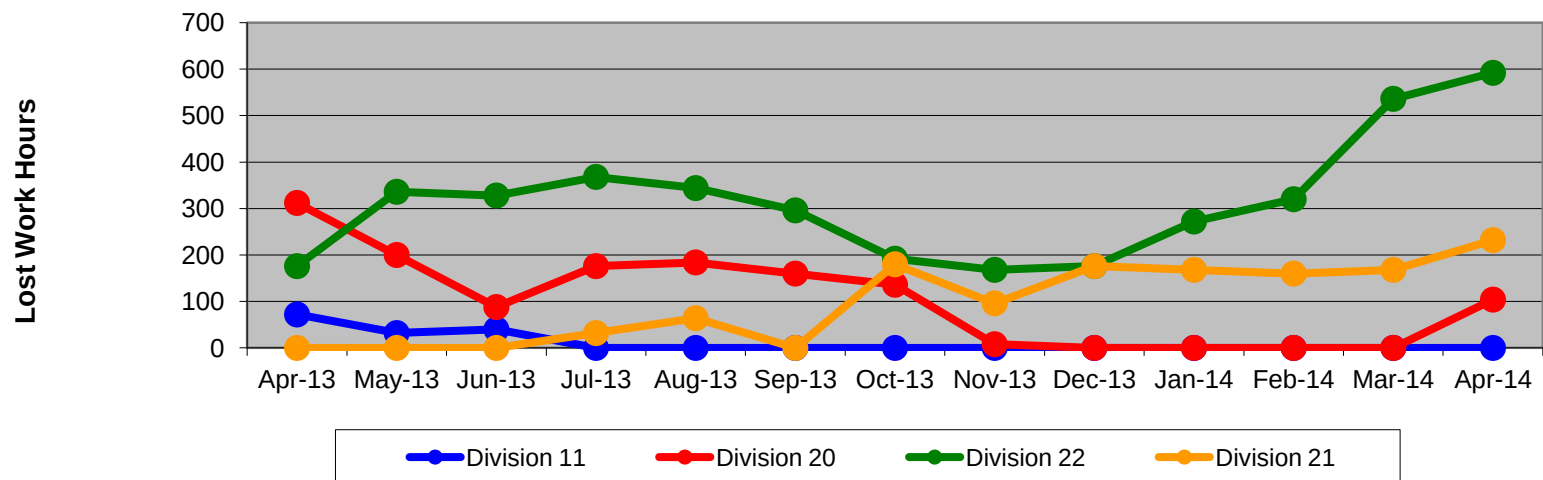
Table of Contents

•	Safety		
	- Industrial Injuries	Page	3
	- Rail Vehicle Accidents & Major Incidents	Page	4
•	Customer Service		
	- Service Delivery – AM/PM Pull-Outs	Page	5
	- Vehicle Utilization – Blue Line & Green Line	Page	6
	- Vehicle Utilization – Red Line & Gold Line	Page	7
	- All Train Delay Incidents	Page	8
	- Mean Miles Between Failures (Major)	Page	9
	- Mileage Between Data Range (by month)	Page	10
•	Business Processes		
	- Top Incident Categories	Page	11
	- Major Incidents	Page	12
	- Preventive Maintenance Compliance	Page	13
	- RFS Wrench Turning	Page	14
•	Finance		
	- Vandalism & Graffiti Costs	Page	15
	- Graffiti Pictures	Page	16
	- Labor & Material Costs	Page	17
	- Cost per mile	Page	18
	- Absence vs. Overtime	Page	19
•	Engineering		
	- Rail Vehicle Engineering Project Summary	Page	20-23
•	Quality Assurance		
	- Warranty Program Projects Summary	Page	24
•	Growth		
	- RFS Instruction Department Activities	Page	25

Industrial Injuries – Lost Work Hours April 2014

	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	13-Month Period
Division 11	72	32	40	0	0	0	0	0	0	0	0	0	0	144
Division 20	312	200	88	176	184	160	136	8	0	0	0	0	104	1,368
Division 22	176	336	328	368	344	296	192	168	176	272	320	536	592	4,104
Division 21	0	0	0	32	64	0	180	96	176	168	160	168	232	1,276
Totals	560	568	456	576	592	456	508	272	352	440	480	704	928	6,892

Industrial Injuries (lost work hours)



Rail Vehicle Accidents & Major Incidents

April 2014

Repair Costs	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	13-Month Period
Blue/Expo Line	\$237,017	\$11,700	\$4,926	\$14,951	\$2,338	\$3,700	\$11,475	\$13,838	\$0	\$8,370	\$15,618	\$13,690	\$72,961	\$410,584
Red/Purple Line	\$4,165	\$0	\$0	\$0	\$1,358	\$0	\$0	\$0	\$0	\$0	\$0	\$356	\$0	\$5,879
Green Line	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,008	\$0	\$0	\$0	\$0	\$1,008
Gold Line	\$0	\$261	\$8,220	\$0	\$537	\$0	\$0	\$0	\$0	\$0	\$0	\$714	\$0	\$9,732
Totals	\$241,182	\$11,961	\$13,146	\$14,951	\$4,233	\$3,700	\$11,475	\$13,838	\$1,008	\$8,370	\$15,618	\$14,760	\$72,961	\$427,203

Rail Vehicle Accident Costs - April 2014				
Date	Incident #	Problem Code	Incident Description	Cost
Metro Blue/Expo Line				
4/15/14	2443688	Train vs. Vehicle	A 10-73 was reported at Flower and Pico, Track 1 Northbound.	\$ 1,508
4/16/14	2444300	Train vs. Vehicle	A 10-73 was reported at Main and Washington Southbound.	\$ 34,081
4/19/14	2445256	Train vs. Vehicle	A 10-73 was reported at Washington and Los Angeles, Track 1 Northbound.	\$ 5,525
4/25/14	2447304	Train vs. Vehicle	A 10-73 was reported at Long Beach and 14th St., Track 1 Northbound.	\$ 3,807
4/26/14	2447718	Train vs. Vehicle	A 10-73 was reported at 18th St. and Flower, Track 2 Southbound.	\$ 1,080
4/27/14	2447956	Train vs. Pedestrian	A 10-72 was reported at Southbound Vermont, pedestrian crossing.	\$ 189
4/28/14	2448020	Train vs. Vehicle	A 10-73 was reported at Jefferson Northbound.	\$ 26,771
Total				\$ 72,961
Grand Total				\$ 72,961
(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.

Service Delivery April 2014

April 2014 - Service Delivery

Blue/Expo Line Fleet Size: 92

<u>Pull Out</u>	<u>Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
Weekday:	78	79	101%
Weekend:	60	67	112%
Late Pullouts: 3*			
Monthly Mileage:	642,281		

Red/Purple Line Fleet Size: 104

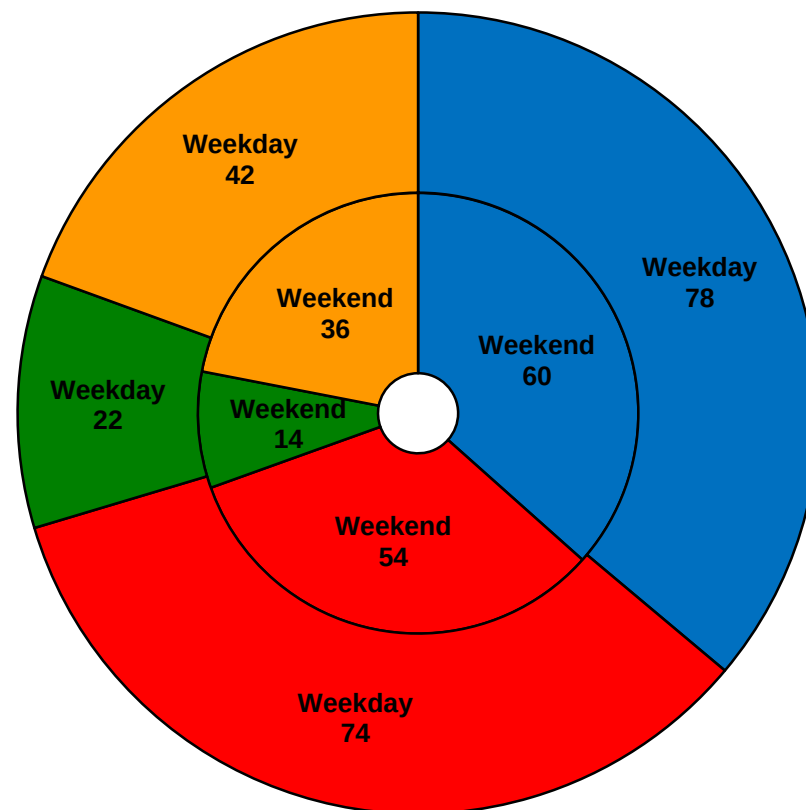
<u>Pull Out</u>	<u>Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
Weekday:	74	82	111%
Weekend:	54	71	131%
Late Pullouts: 0*			
Monthly Mileage:	612,556		

Green Line Fleet Size: 29

<u>Pull Out</u>	<u>Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
Weekday:	22	23	105%
Weekend:	14	16	114%
Late Pullouts: 0*			
Monthly Mileage:	227,573		

Gold Line Fleet Size: 50

<u>Pull Out</u>	<u>Vehicles Required</u>	<u>Average Available</u>	<u>% Up (Down)</u>
Weekday:	42	43	102%
Weekend:**	36	42	117%
Late Pullouts: 0*			
Monthly Mileage:	317,454		

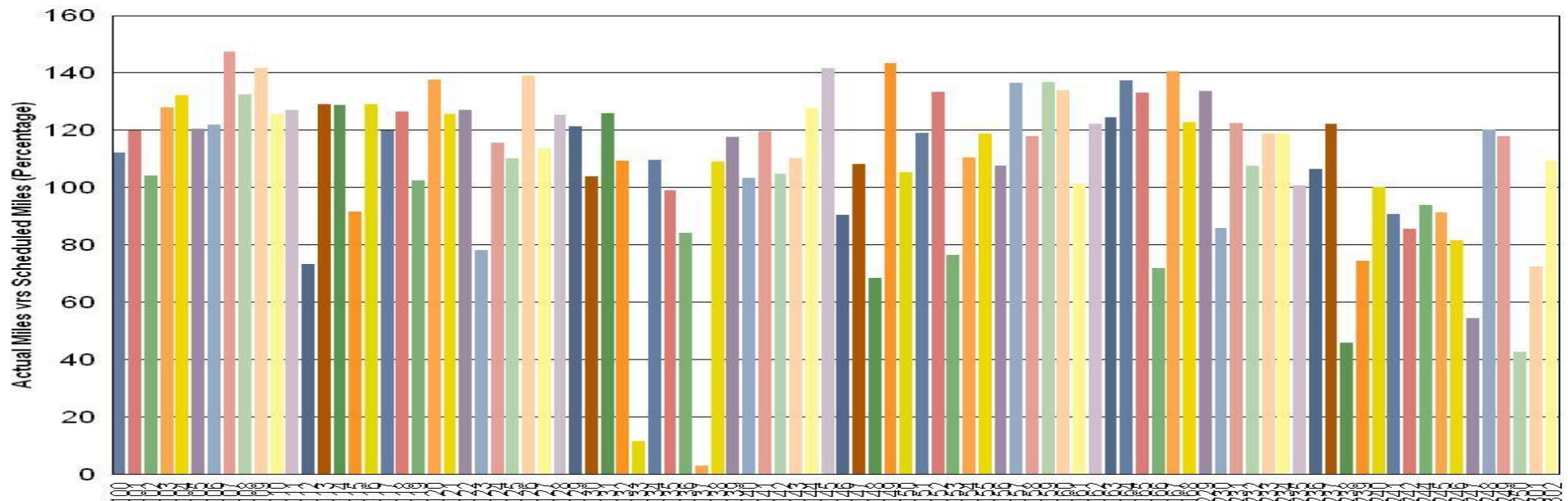


■ Blue/Expo Line ■ Red/Purple Line ■ Green Line ■ Gold Line

Vehicle Utilization

April 2014

Metro Blue/Expo Line



Blue/Expo Line:

Car # 133 was out of service due to Exterior Paint, Interior Graffiti Abatement, Passenger Window Change out, Seat Removal for Bikes, Window Sash Replacement and Passenger Seat Removal.

Car # 137 has been out of service due to major accident repair.

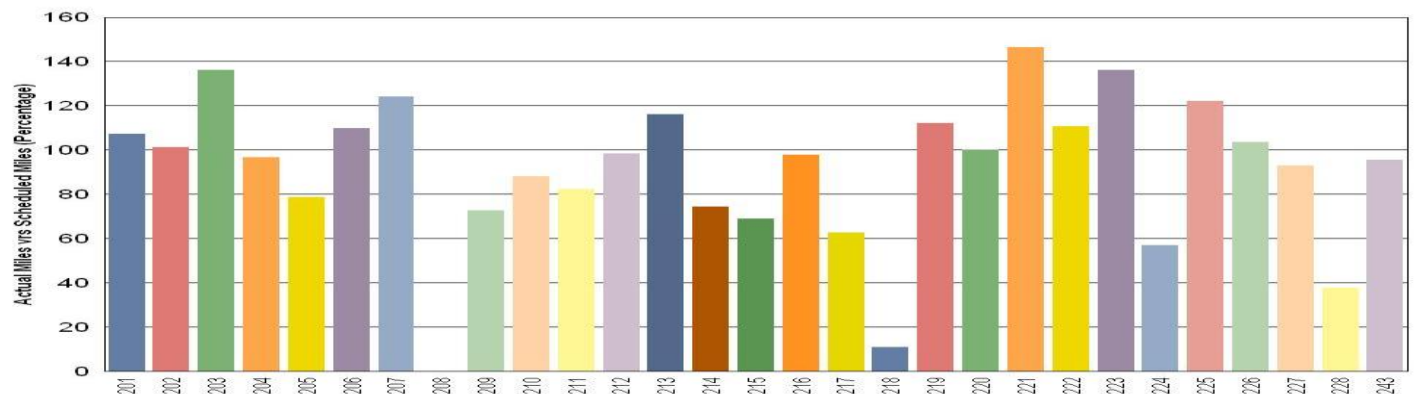
Green Line:

Car # 208 is still on hold for propulsion troubleshooting.

Car # 218 was on hold for propulsion failure.

Car # 228 was on hold for 90K Inspection and brake overhaul.

Metro Green Line



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

Vehicle Utilization

April 2014

Red/Purple Line:

The following cars are out of service due to:

Car # 509-508 Propulsion Fault

Car # 515-516 LVPS Fault

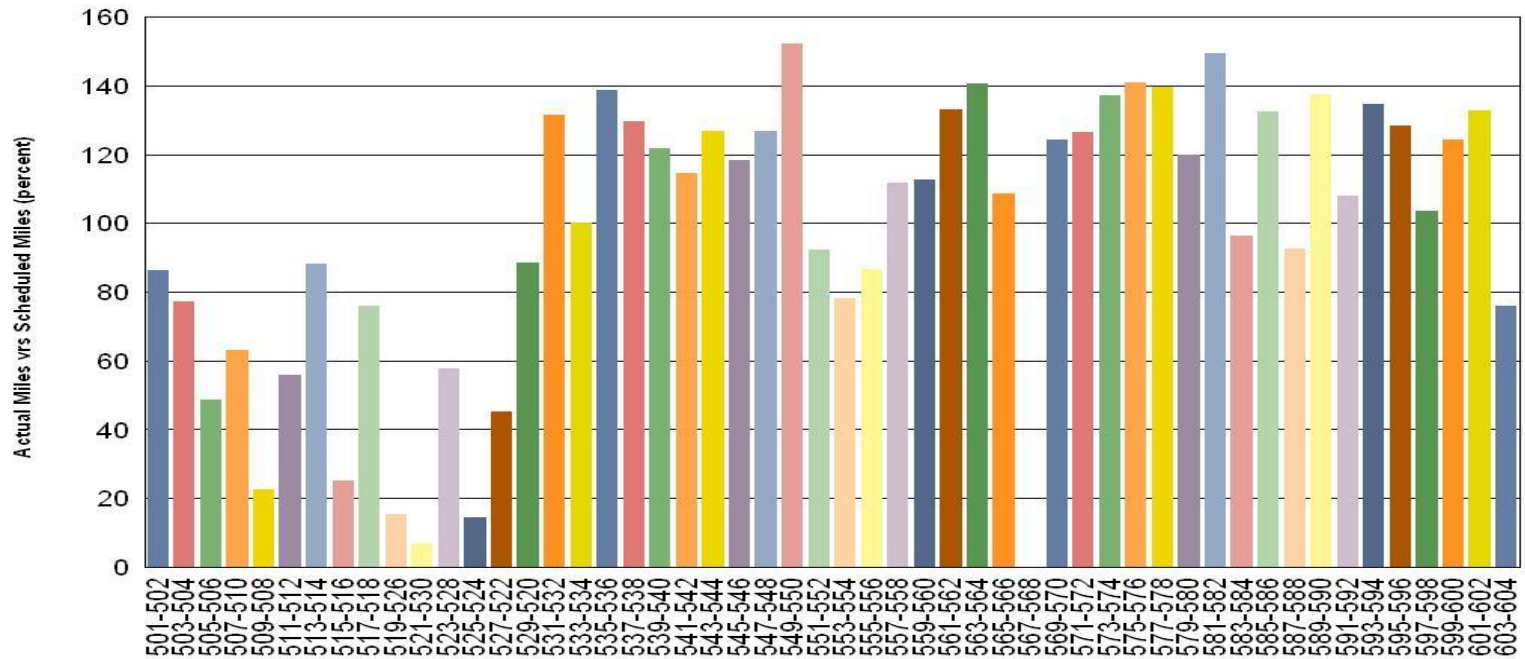
Car # 519-526 90K Inspection and Propulsion Fault

Car# 521-530 HVAC Servicing and 90K Inspection

Car# 525-524 Traction Motor Replacement and HVAC Servicing

Car# 567-568 Floor Replacement Project and HVAC Servicing

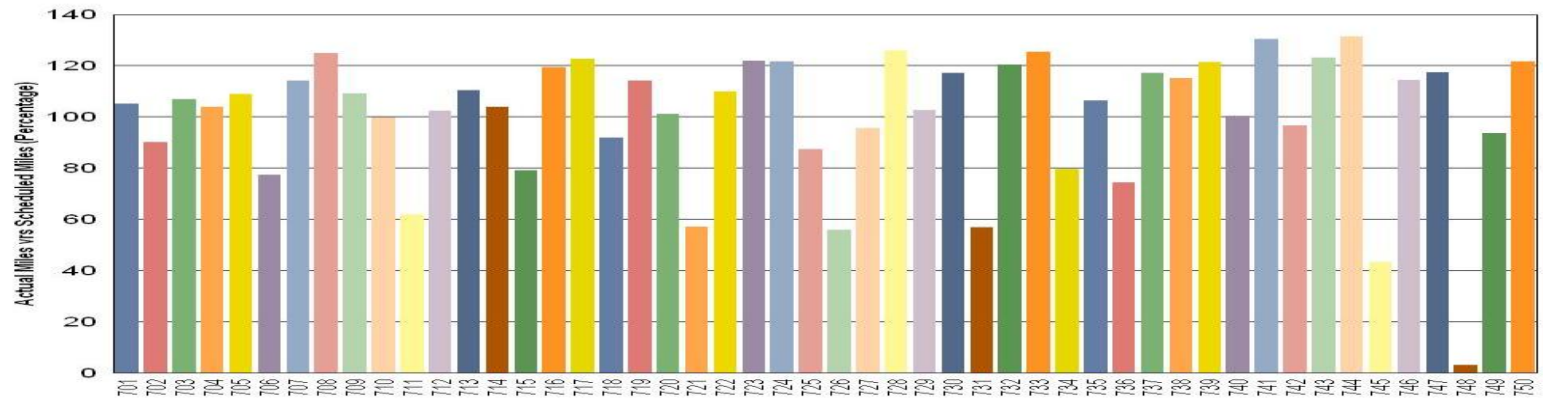
Metro Red/Purple Line



Metro Gold Line

Gold Line:

Car # 748 was out of service for campaign and corrective repairs.

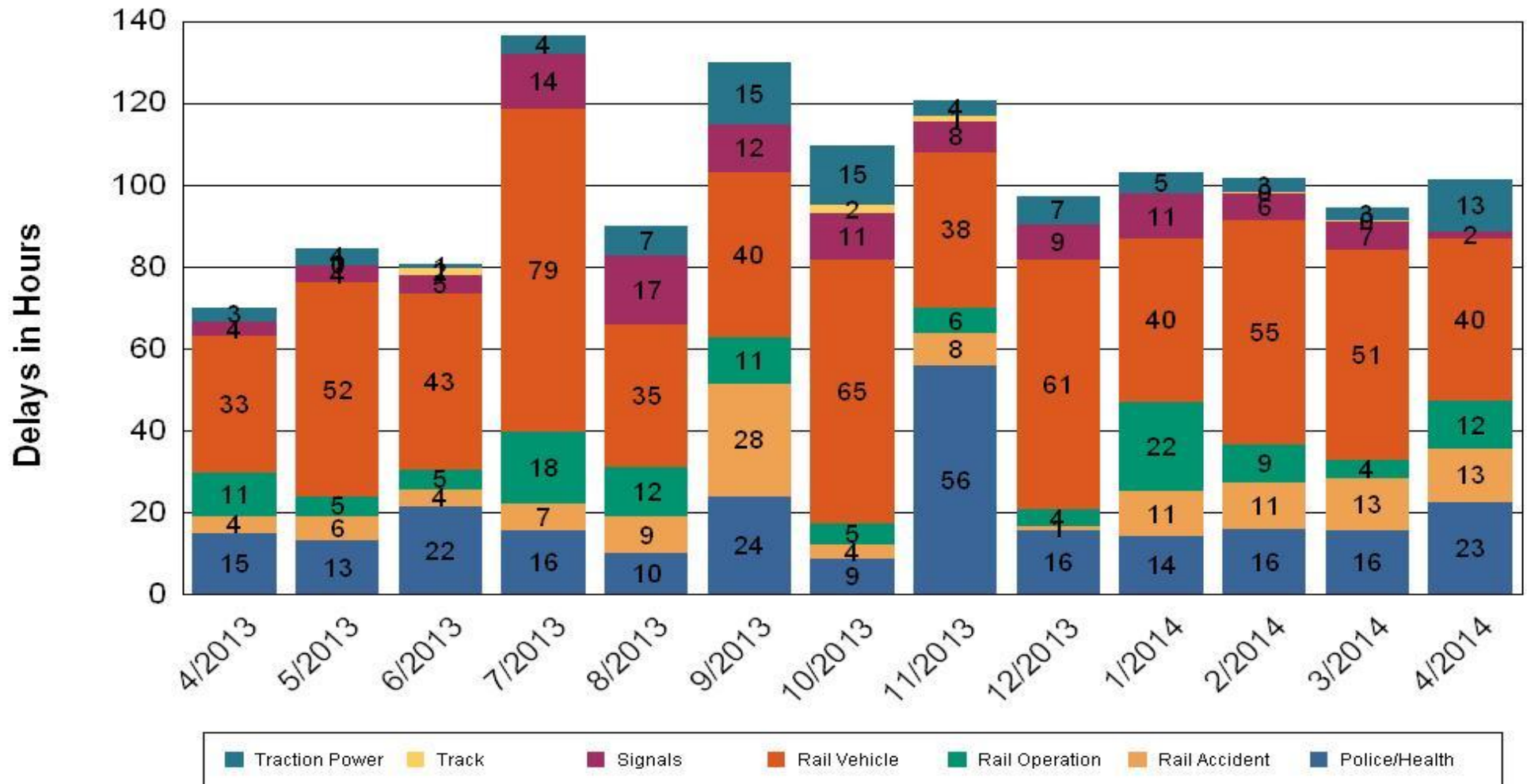


•Percentage includes an average 4% mileage deduction for yard mileage and vehicle testing.

All Train Delay (Hours) April 2014

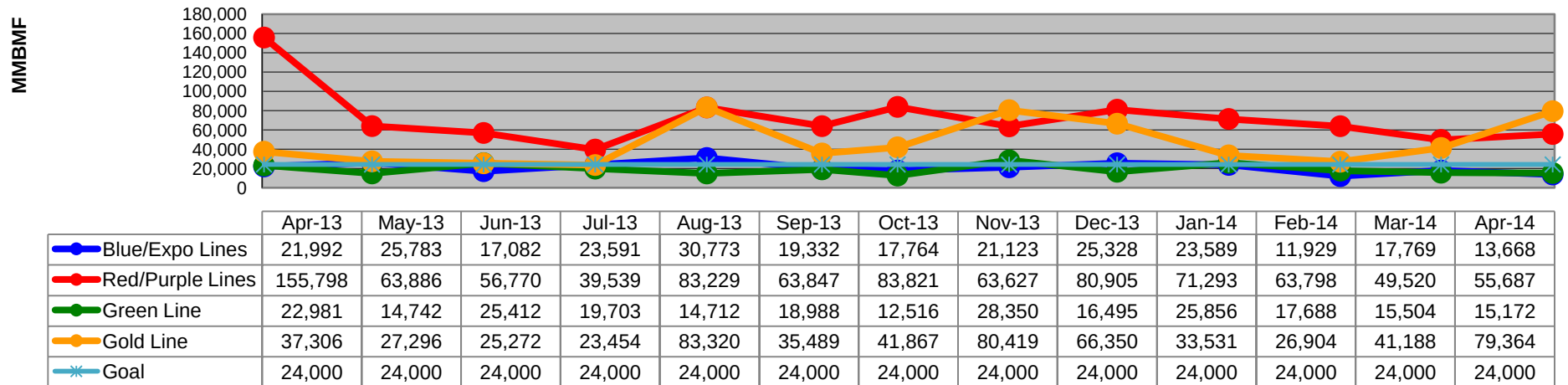
All Train Delays

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

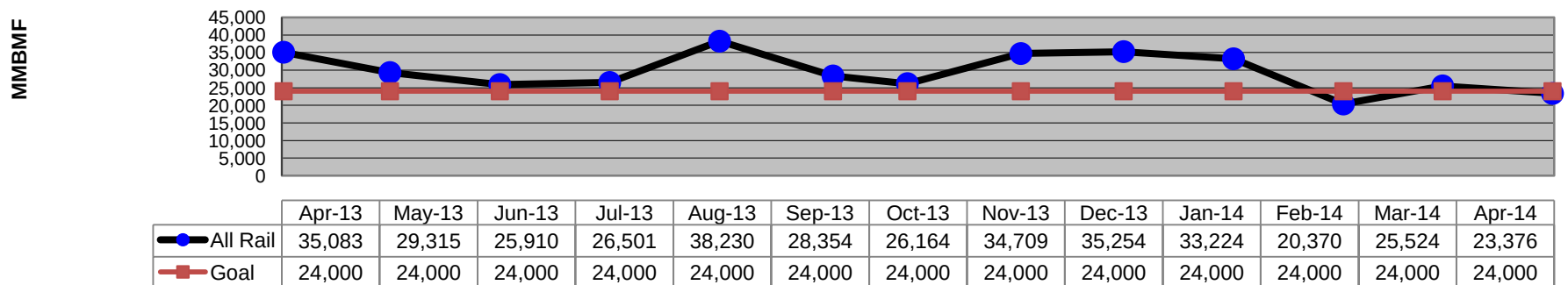


Mean Miles Between Failures (Major) Year to Date

Mean Miles Between Major Failures (by line)



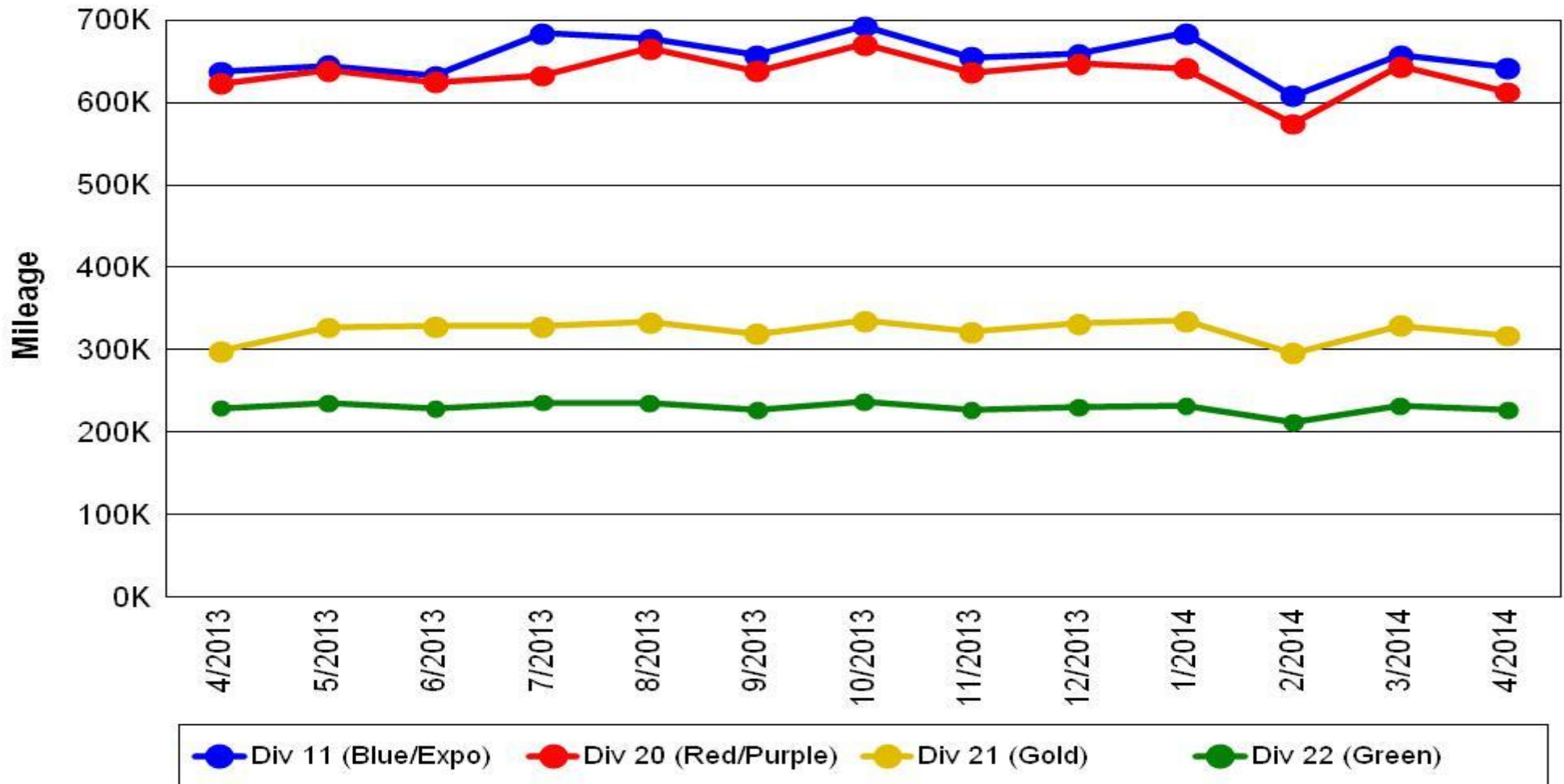
Mean Miles Between Major Failures (all)



Mileage Between Data Range (by month)

April 2014

Rail Division Monthly Mileage

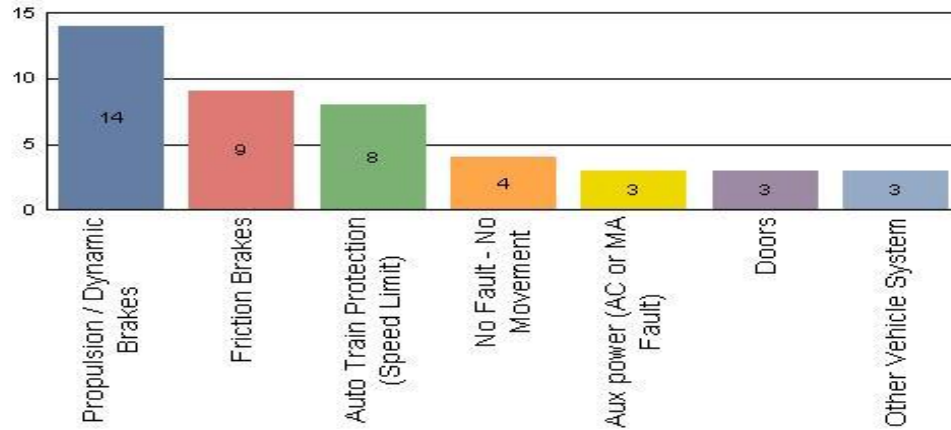


Top Incident Categories

April 2014

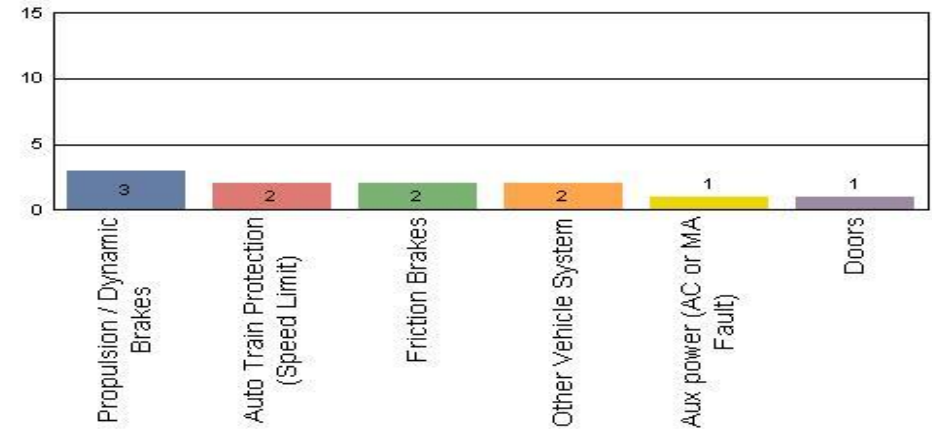
Metro Blue/Expo Line

Top Incident Categories



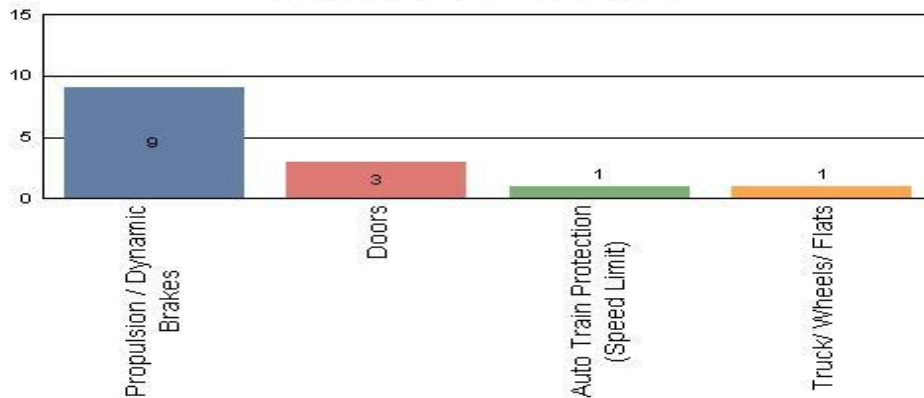
Metro Red/Purple Line

Top Incident Categories



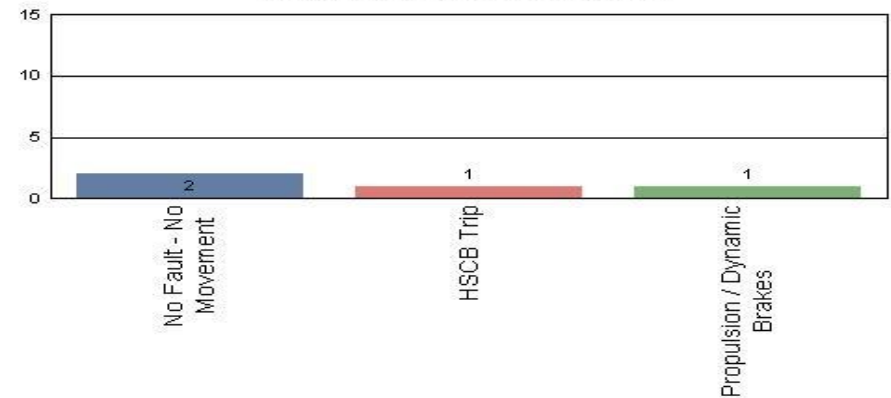
Metro Green Line

Top Incident Categories

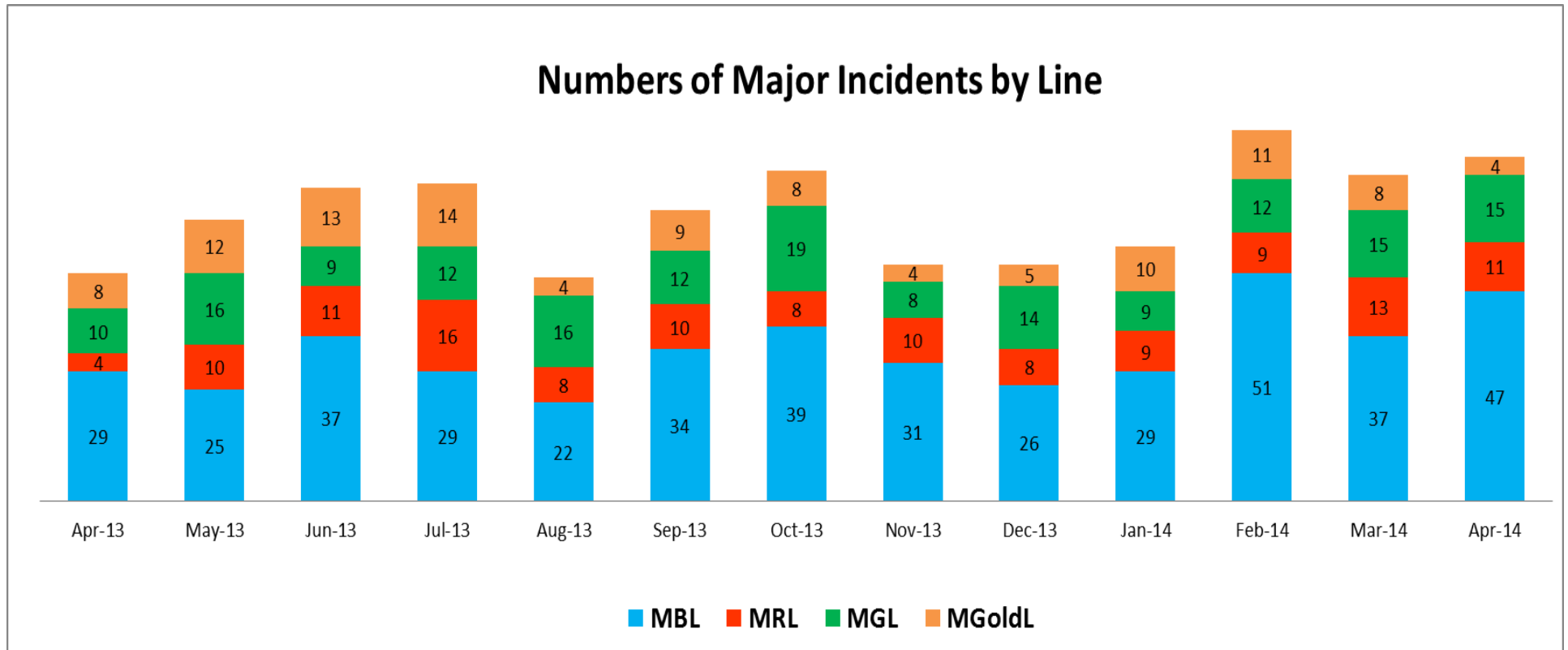


Metro Gold Line

Top Incident Categories



Major Incidents April 2014



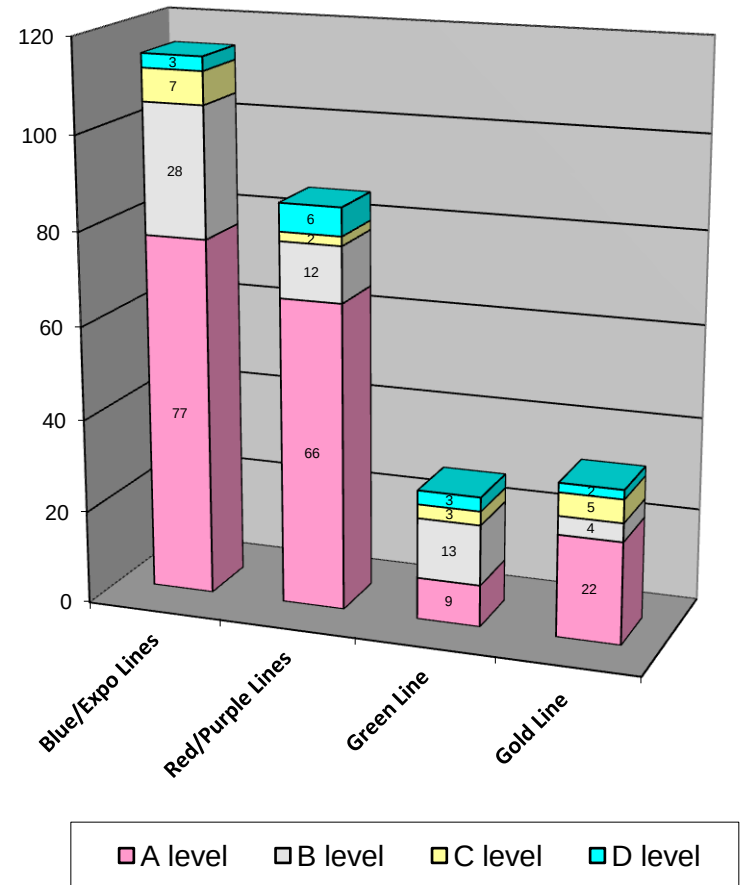
Preventive Maintenance Compliance

April 2014

PM Compliance	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14
Blue/Expo Lines	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%	91%	100%	100%	100%	100%	96%	92%	100%	100%	100%	100%	100%
Gold Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

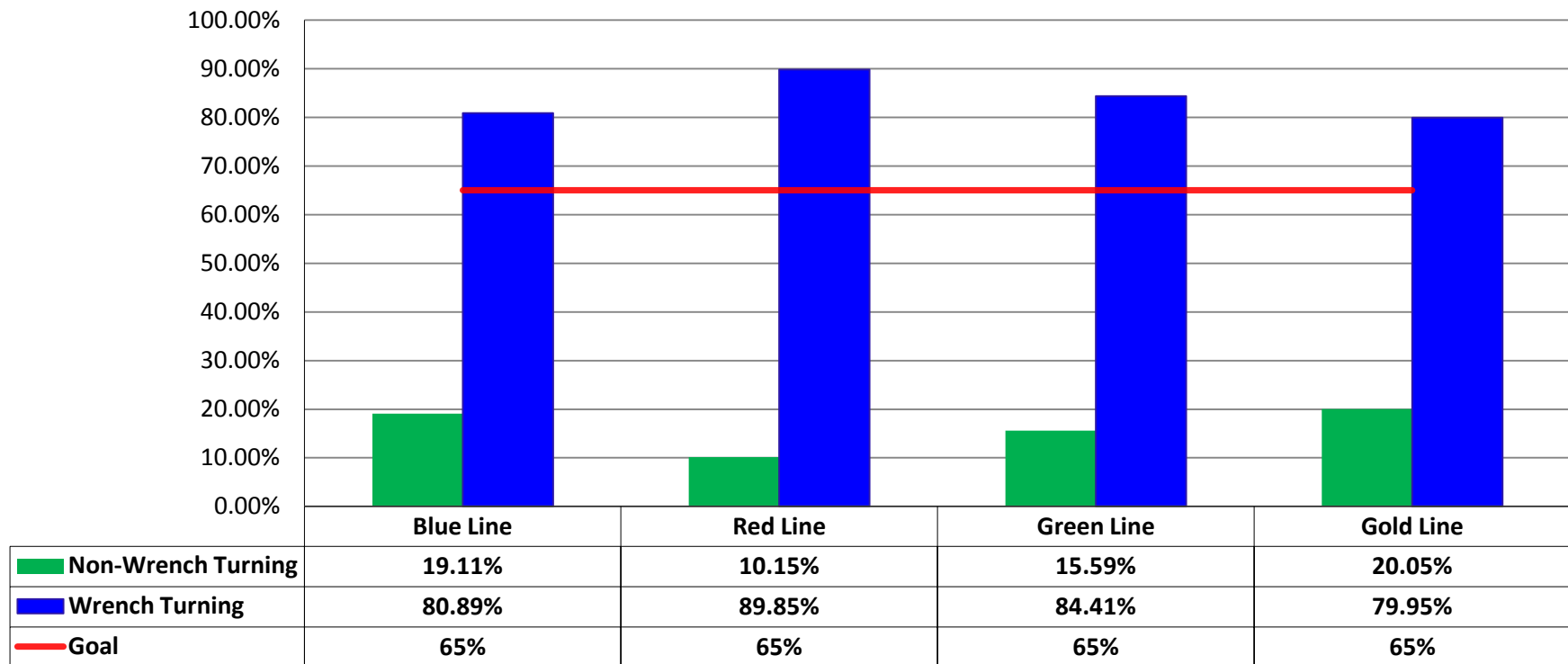
Number of Preventive Maintenance Inspections - April 2014					
Line	A level	B level	C level	D level	Totals
Blue/Expo Lines	77	28	7	3	115
Red/Purple Lines	66	12	2	6	86
Green Line	9	13	3	3	28
Gold Line	22	4	5	2	33
Totals:	174	57	17	14	262

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



RFS Wrench Turning April 2014

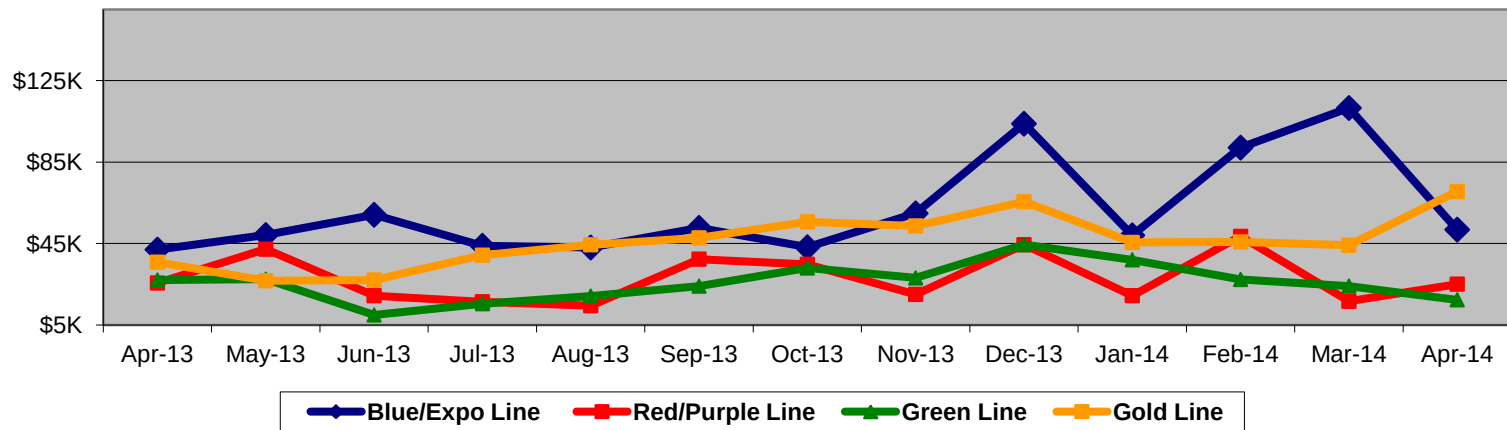
RFS - Wrench Turning April 2014



Vandalism & Graffiti Report

April 2014

	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	13-Month Period
Blue/Expo Line	\$42K	\$49K	\$59K	\$44K	\$43K	\$53K	\$43K	\$60K	\$104K	\$49K	\$92K	\$112K	\$52K	\$802K
Red/Purple Line	\$26K	\$42K	\$19K	\$16K	\$14K	\$37K	\$35K	\$20K	\$44K	\$19K	\$49K	\$17K	\$25K	\$365K
Green Line	\$27K	\$28K	\$10K	\$15K	\$19K	\$24K	\$33K	\$28K	\$44K	\$37K	\$27K	\$24K	\$17K	\$335K
Gold Line	\$36K	\$27K	\$27K	\$39K	\$44K	\$48K	\$56K	\$54K	\$66K	\$46K	\$46K	\$44K	\$71K	\$602K
Totals:	\$131K	\$146K	\$116K	\$115K	\$121K	\$162K	\$167K	\$162K	\$258K	\$151K	\$214K	\$197K	\$165K	\$2,104K



April 2014 Vandalism & Graffiti - All Rail				
	Qty	Labor	Materials	Totals
Windows replaced	93	\$ 18,648	\$ 40,857	\$ 59,505
Vandal Shields	617	\$ 18,512	\$ 10,284	\$ 28,796
Seats Cleaned	509	\$ 2,796	-	\$ 2,796
Seats Replaced	380	\$ 11,971	\$ 15,082	\$ 27,053
Graffiti removal - other	824	\$ 13,791	\$ 2,346	\$ 16,137
Repainting panels	365	\$ 25,389	\$ 5,216	\$ 30,605
Totals	2,788	\$ 91,107	\$ 73,785	\$ 164,892

Graffiti Pictures

April 2014

Blue Line



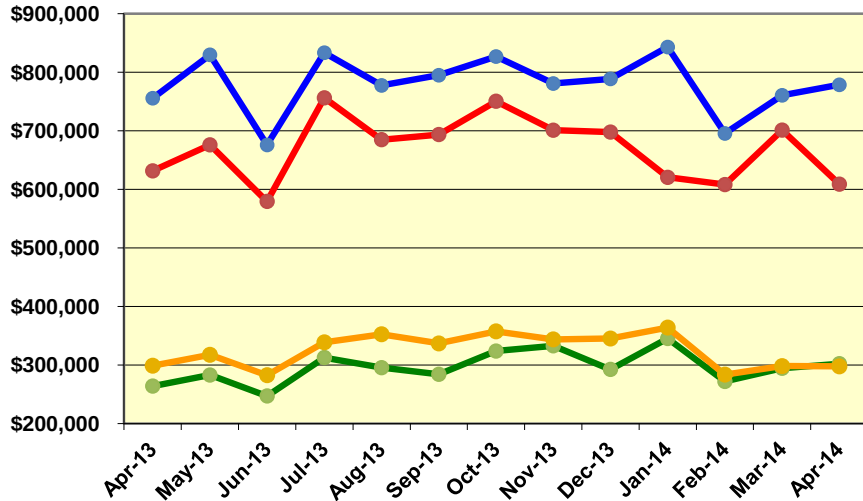
Gold Line



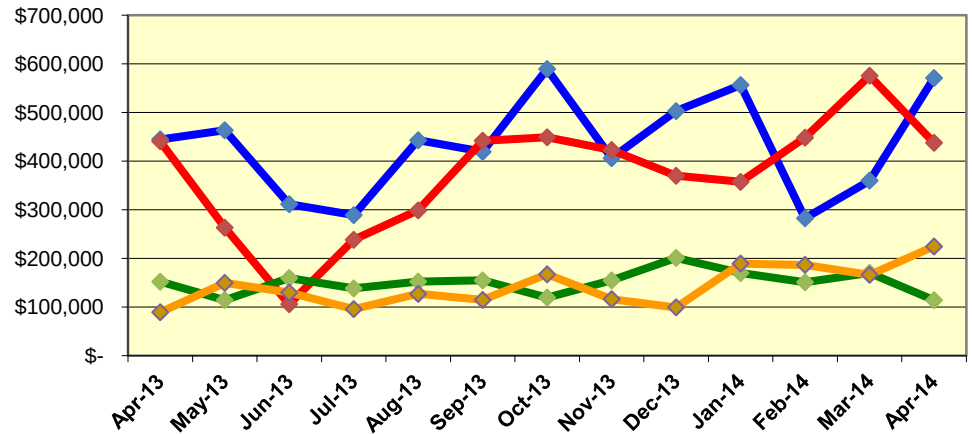
Labor and Material Costs

April 2014

Labor Costs



Material Costs



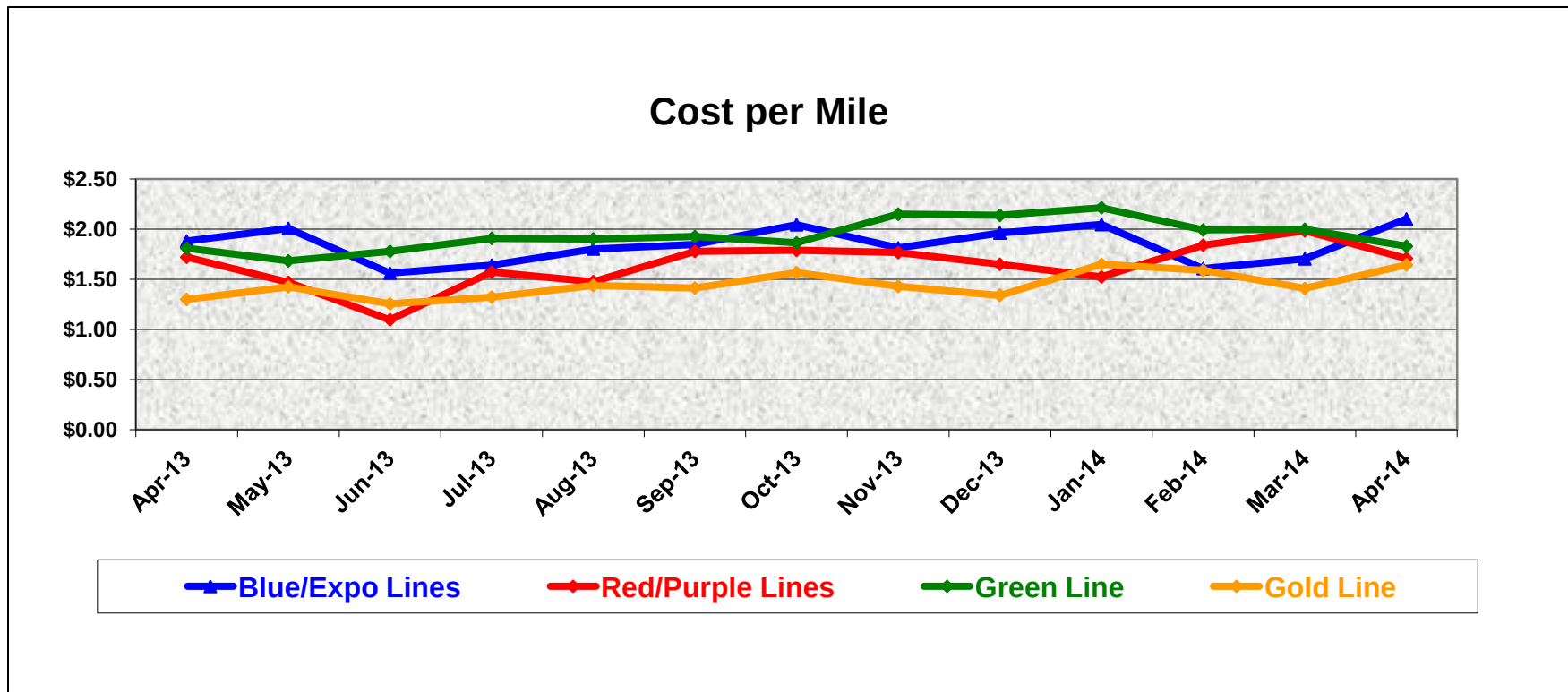
Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14
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	LABOR COSTS												
Blue/Expo Lines	\$ 755,561	\$ 829,721	\$ 675,752	\$ 833,333	\$ 777,432	\$ 794,828	\$ 826,769	\$ 780,678	\$ 788,589	\$ 842,979	\$ 695,394	\$ 760,511	\$ 778,469
Red/Purple Lines	\$ 631,518	\$ 675,950	\$ 579,395	\$ 756,262	\$ 684,850	\$ 693,597	\$ 750,452	\$ 700,975	\$ 697,759	\$ 620,440	\$ 608,097	\$ 701,156	\$ 608,816
Green Line	\$ 263,955	\$ 282,841	\$ 247,129	\$ 312,740	\$ 295,374	\$ 284,105	\$ 323,749	\$ 332,737	\$ 292,482	\$ 345,262	\$ 271,877	\$ 294,381	\$ 302,213
Gold Line	\$ 298,759	\$ 317,387	\$ 282,541	\$ 338,719	\$ 352,473	\$ 336,795	\$ 357,408	\$ 343,700	\$ 345,170	\$ 363,886	\$ 283,563	\$ 298,069	\$ 297,634
Totals	\$1,949,793	\$2,105,899	\$1,784,817	\$2,241,054	\$2,110,129	\$2,109,325	\$2,258,378	\$2,158,090	\$2,123,999	\$2,172,567	\$1,858,931	\$2,054,117	\$ 1,987,132

	MATERIAL COSTS												
Blue/Expo Lines	\$ 444,569	\$ 463,311	\$ 311,415	\$ 288,894	\$ 442,803	\$ 419,133	\$ 589,324	\$ 406,032	\$ 502,761	\$ 556,457	\$ 282,466	\$ 359,845	\$ 570,775
Red/Purple Lines	\$ 440,708	\$ 263,158	\$ 105,805	\$ 238,207	\$ 298,670	\$ 441,927	\$ 449,033	\$ 422,849	\$ 369,819	\$ 357,244	\$ 448,225	\$ 575,495	\$ 437,612
Green Line	\$ 151,982	\$ 114,311	\$ 159,526	\$ 138,190	\$ 152,243	\$ 154,678	\$ 119,411	\$ 154,582	\$ 201,035	\$ 169,759	\$ 150,881	\$ 170,250	\$ 113,979
Gold Line	\$ 89,212	\$ 149,564	\$ 129,742	\$ 95,664	\$ 126,942	\$ 114,461	\$ 167,128	\$ 116,167	\$ 99,267	\$ 189,310	\$ 186,640	\$ 166,216	\$ 224,430
Totals	\$1,126,471	\$ 990,344	\$ 706,488	\$ 760,956	\$1,020,659	\$1,130,199	\$1,324,896	\$1,099,631	\$1,172,883	\$1,272,769	\$1,068,212	\$1,271,807	\$ 1,346,796

Cost Per Mile April 2014

Cost per Mile:	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14
Blue/Expo Lines	\$1.88	\$2.01	\$1.56	\$1.64	\$1.80	\$1.85	\$2.04	\$1.81	\$1.96	\$2.05	\$1.61	\$1.70	\$2.10
Red/Purple Lines	\$1.72	\$1.47	\$1.10	\$1.57	\$1.48	\$1.78	\$1.79	\$1.77	\$1.65	\$1.52	\$1.84	\$1.98	\$1.71
Green Line	\$1.81	\$1.68	\$1.78	\$1.91	\$1.90	\$1.93	\$1.86	\$2.15	\$2.14	\$2.21	\$1.99	\$2.00	\$1.83
Gold Line	\$1.30	\$1.43	\$1.25	\$1.32	\$1.44	\$1.41	\$1.57	\$1.43	\$1.34	\$1.65	\$1.59	\$1.41	\$1.64



ATU Absences vs. Overtime

April 2014

ABSENCE TYPE and HOURS	3940 Admin.	3941 Blue	3942 Red	3943 Green	3944 Gold	3947 Expo	Total
AWP-ABSENT W/O PERMISSION	-	72	-	24	-	-	96
BER-BEREAVEMENT	-	-	24	-	-	-	24
CTO-COMPENSATORY TIME OFF	12	330	390	120	128	72	1,052
CUT-EMPLOYEE LEAVES EARLY	-	1	0	1	-	-	2
CVA - CASUAL VACATION	12	128	339	48	179	32	738
DSL-DISABILITY LEAVE/LONG	-	680	256	168	88	-	1,192
EFH-EMG. FLOAT HOL.	-	8	48	16	24	-	96
ETO-EXCUSED TIME OFF	2	60	42	10	79	1	193
FMI-FAM IND INJURY	-	-	248	-	168	-	416
FML-FAMILY CARE LEAVE	72	347	156	115	232	152	1,075
FMS-FAMILY LEAVE SICK	33	154	84	8	17	-	295
HLF-HOLIDAY FLOATING	16	216	384	136	72	16	840
II-INDUSTRIAL INJURY	-	-	104	240	56	-	400
IPD-INJURED PARTIAL DAY	-	-	4	-	-	-	4
JUR-JURY DUTY	-	8	-	16	16	-	40
LC1-LABOR CODE 233	8	549	231	152	136	9	1,085
LTI-OCCPIL/LONGTRM INJ LEAVE	-	-	-	352	176	-	528
OWP-OFF WITH PERMISSION	-	-	57	-	0	-	57
RTO-REQUESTED TIME OFF-NO PAY	-	19	-	2	-	-	21
SCK-SICK PAY	-	123	212	101	72	-	508
SCW-SICK WITHOUT PAY	-	40	47	47	200	-	334
TAR-TARDY	0	0	1	1	0	-	2
UNP-UNION BUS PAID	-	-	-	-	16	-	16
VAC-VACATION	72	870	416	255	104	8	1,725
Total Absence Hours	227	3,604	3,043	1,811	1,763	290	10,738
ATU Number of Work Force (assigned)	9	120	112	47	48	5	341
Full Work Force hours/month	1,560	20,796	19,410	8,145	8,318	867	59,095
Absence as a % of Work Force	15%	17%	16%	22%	21%	33%	18%

OVERTIME TYPE and HOURS	3940 Admin.	3941 Blue	3942 Red	3943 Green	3944 Gold	3947 Expo	Total
CTB-COMPENSATORY TIME TO BANK	1	96	107	23	44	4	275
OTP-PREM OVERTIME	601	5,778	4,825	2,129	1,785	164	15,282
WLO-Worked Lunch Overtime	39	145	192	140	103	4	623
Total Overtime Hours	640	6,019	5,124	2,291	1,932	172	16,179
Overtime as a % of Work Force	41%	29%	26%	28%	23%	20%	27%
FTE Calculation - Absence & OT	3940	3941	3942	3943	3944	3947	Total
Absences FTE	1	21	18	10	10	2	62
OTP FTE	4	35	30	13	11	1	93
FTE Difference	-3	-14	-12	-3	-1	1	-31



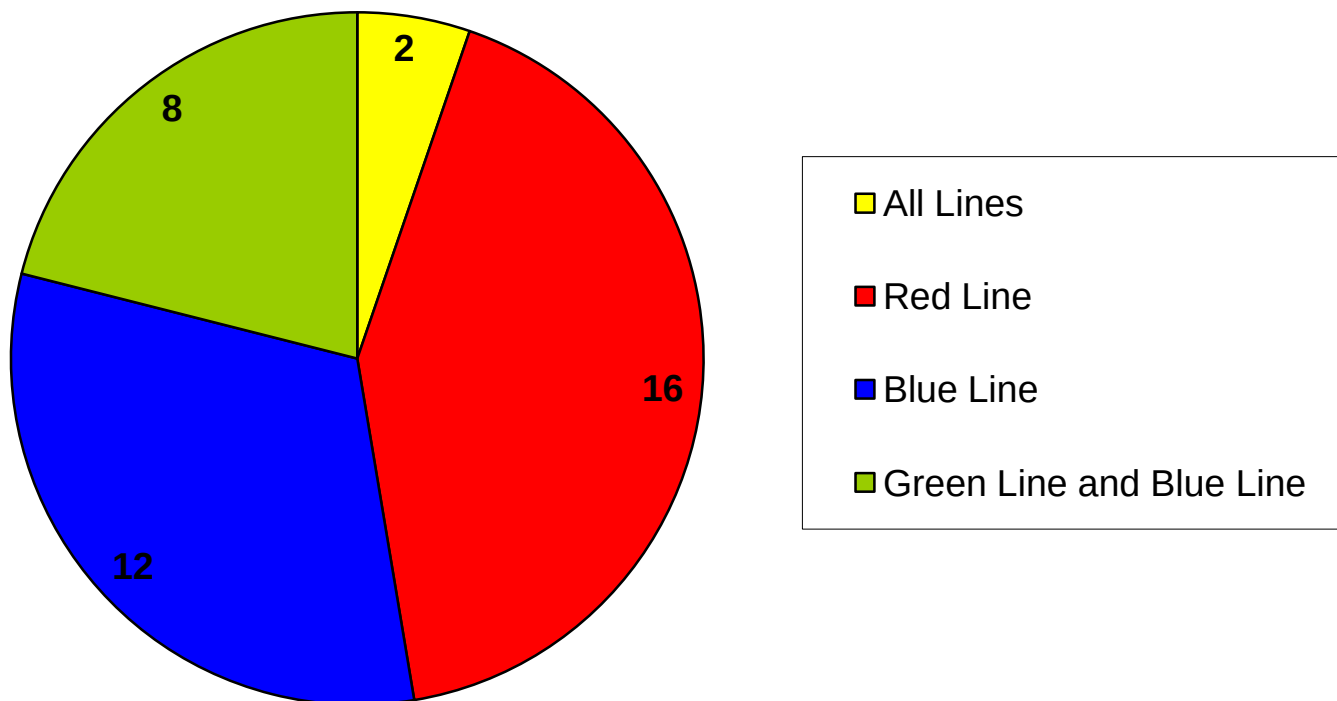
Metro

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

Rail Vehicle Engineering Project Summary

April 2014

Engineering Technical Specifications 100% Completion - Total of 38 April 2014

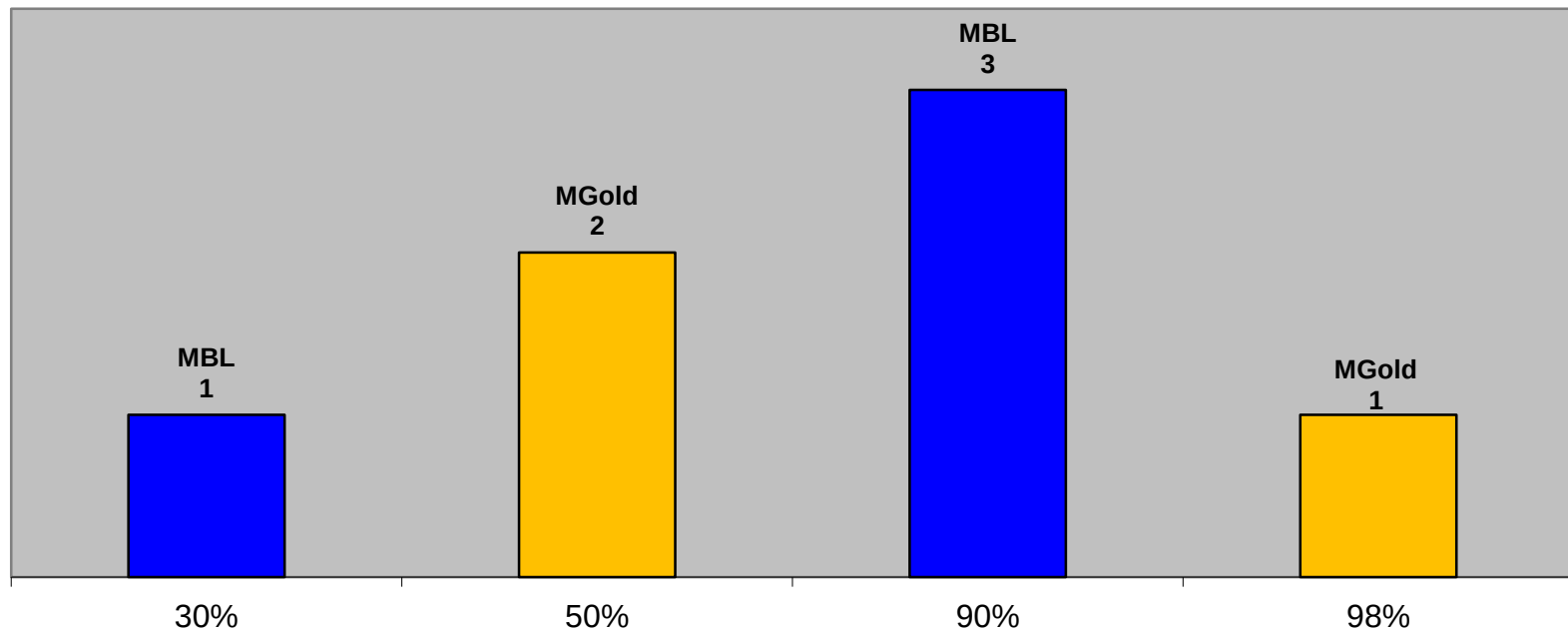


Details of specifications are available upon request.

Rail Vehicle Engineering Project Summary (cont'd)

April 2014

Engineering Technical Specifications Less than 100% Completion - Total of 7 April 2014

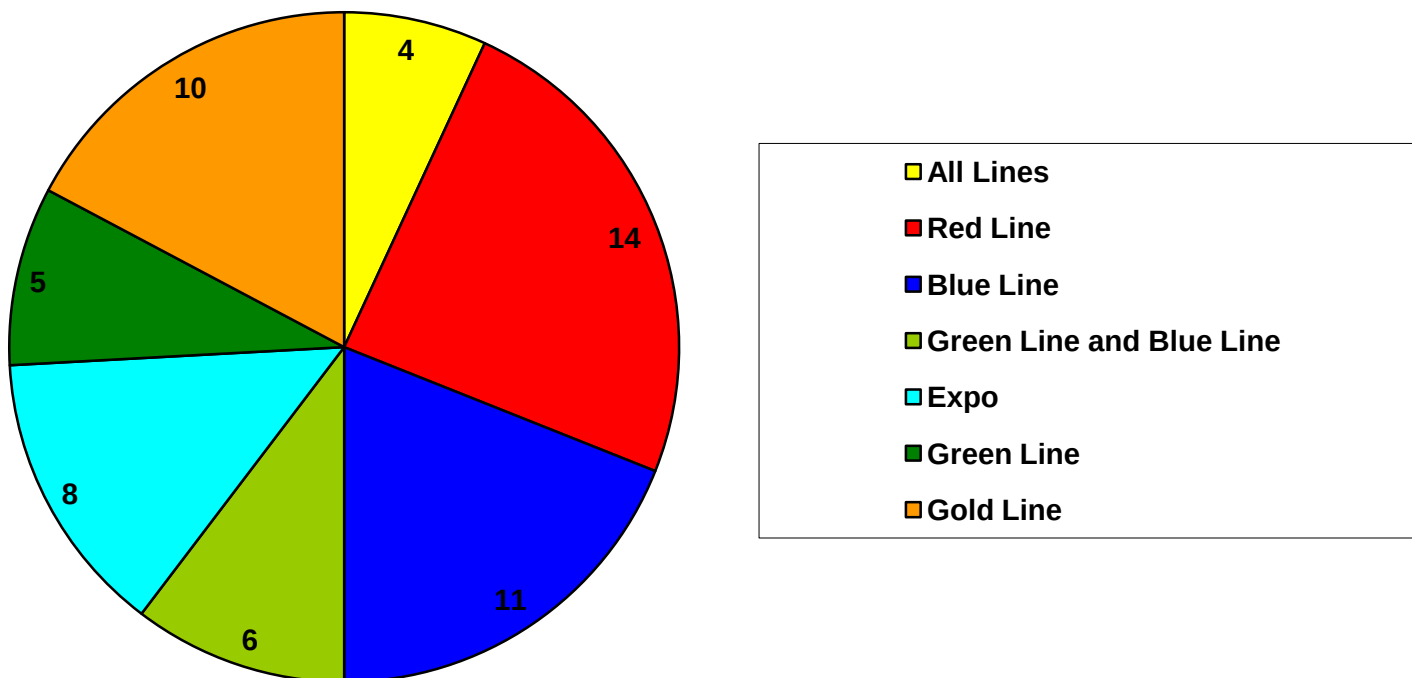


Details of specifications are available upon request.

Rail Vehicle Engineering Project Summary (cont'd)

April 2014

Engineering Projects
100% Completion - Total of 58
April 2014

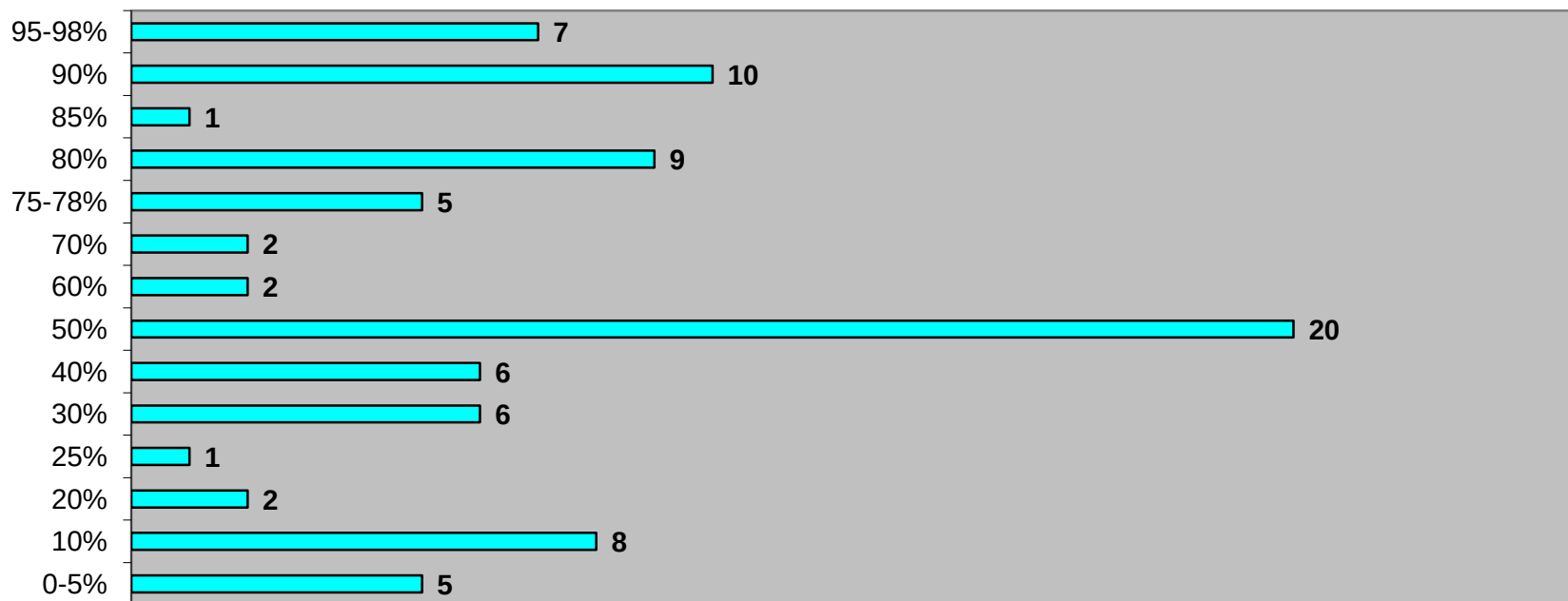


Details of projects are available upon request.

Rail Vehicle Engineering Project Summary (cont'd)

April 2014

Engineering Projects Less than 100% Completion - Total of 84 - All Lines April 2014



Details of projects are available upon request.

QA-Warranty Activities

April 2014

- QA PMI Audits, Spot Checks, Unannounced Audits performed (31)
- On-Going, P2550 parts tracking: Contract Spares, Capital Spares status to ABI
- On-Going, Division Warranty Parts Claims Processing
- P2550 Support of analog converter valves
- P2550 Lamellar Seal removal in progress
- P2550 50 of 50 Cars have new profile connection beam installed. 50 of 50 Cars with replacement resilient pins and bushings and connection beam.
- A650 Base Buy & Option Car Fleet Warranty Truck Frame Mod Campaign 164 Trucks modified to date. MRL Warranty Cost Avoidance savings accrued to date \$2.4 million.
- MBL journal bearing replacement “C” truck program in progress
- MBL LED Destination sign program/ Modified Controller replacement in progress
- MBL/MGL Support of P2000 Air Compressor/ Air dryer
- On-Going Warranty-QA interest oversight & tracking: Overhauls / Mod Programs, (A650/P2000/P2020/865/P2550) Propulsion System, Master Controllers, Capacitor Banks, Air Compressors, Aux Power, Couplers, Gearboxes, Articulation Diaphragms, Friction Brakes, HPT’s, Brake Resistor Grids, T/M’s, MA’s, HVAC, Doors, A/C Motors – (Blowers & Evaporators)

RFS Instruction Department Activities

April 2014

Training classes completed during the month of April 2014

Description	Course Hours	Student Count	Training Hours
Red Line Training (Breda A650 HRV):			
RFS BRED A 650 PROPULSION ABB	72	8	576
RFS BRED A 650 APSE	8	8	64
RFS BRED A 650 COUPLER	8	8	64
Total Red Line Training (Hours):			704
Green Line Training (P2000 LRVs):			
RFS SIEMENS ML DUTY, DEAD TOW AND VEH REC (HANDS ON)	32	2	64
Total Green Line Training (Hours):			64
Gold Line Training (P2550 LRVs):			
RFS ANSALDOBREDA 2550 LIGHTING	12	5	60
RFS ANSALDOBREDA 2550 PROPULSION	80	5	400
Total Gold Line Training (Hours):			460
Total RFS Instruction for the month of April 2014 (Hours):			1,228

Other Instruction Activities

Instructor Vacation and Sick	56
P2000 Mainline Recovery Preparation	64
A650 Vehicle Course Preparation	40
P2550 Vehicle Course Preparation	40
Floor and Engineering Support - Blue Line	40
Hegenschiedt Wheel Lathe/Brandt Truck Powerpoint & Lesson Plan	96
Total Other Instruction Activities	336

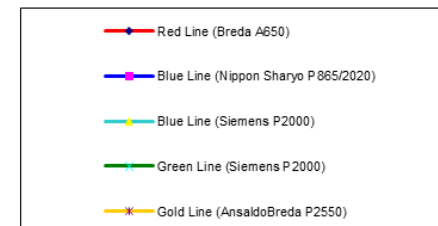
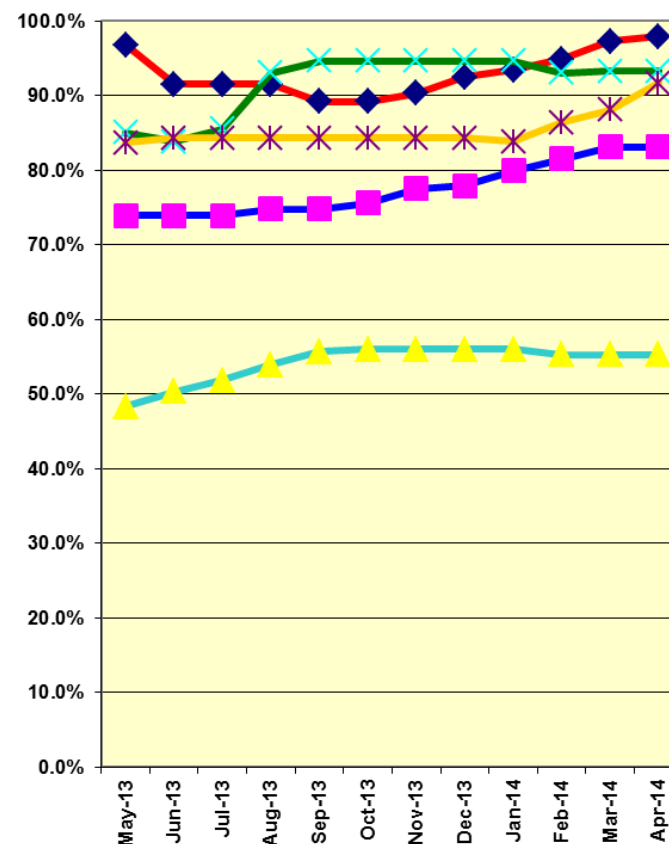
WWP Training provided by Transportation Instruction **1,064**

Core Vehicle Training Completed: BLUE RED GREEN GOLD

Percentage of core vehicle training complete: **83.1% 97.9% 93.3% 91.7%**
 Siemens P2000 training complete: **55.3% N/A N/A N/A**

Average Specialist Rail Experience Level in Years: **11.9 10.2 9.9 10.0**

Core Training Completed



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



Metro