

# Rail Fleet Services Monthly Report August 2014



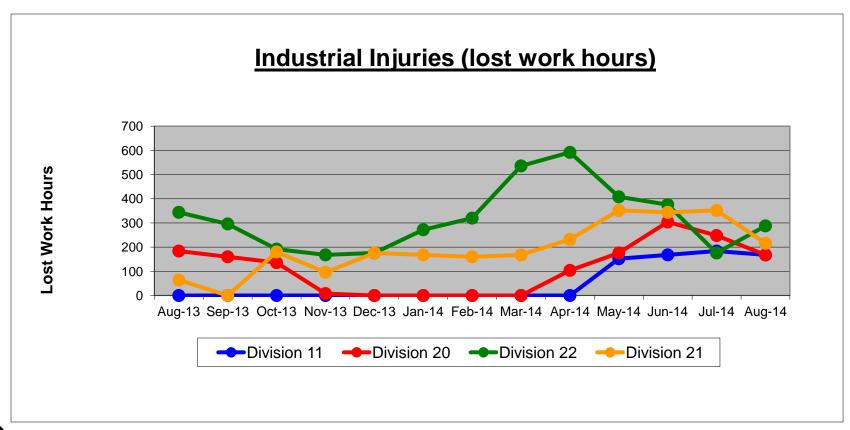
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# Industrial Injuries – Lost Work Hours August 2014

	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	13-Month Period
Division 11	0	0	0	0	0	0	0	0	0	152	168	184	168	672
Division 20	184	160	136	8	0	0	0	0	104	176	304	248	168	1,488
Division 22	344	296	192	168	176	272	320	536	592	408	376	176	288	4,144
<b>Division 21</b>	64	0	180	96	176	168	160	168	232	352	344	352	216	2,508
Totals	592	456	508	272	352	440	480	704	928	1,088	1,192	960	840	8,812





# Rail Vehicle Accidents & Major Incidents August 2014

Repair Costs	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	13-Month Period
Blue/Expo Line	\$2,338	\$3,700	\$11,475	\$13,838	\$0	\$8,370	\$15,618	\$13,690	\$72,961	\$9,463	\$9,964	\$1,528	\$207	\$163,152
Red/Purple Line	\$1,358	\$0	\$0	\$0	\$0	\$0	\$0	\$356	\$0	\$0	\$0	\$0	\$0	\$1,714
Green Line	\$0	\$0	\$0	\$0	\$1,008	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,008
Gold Line	\$537	\$0	\$0	\$0	\$0	\$0	\$0	\$714	\$0	\$0	\$5,860	\$50,059	\$1,669	\$58,839
Totals	\$4,233	\$3,700	\$11,475	\$13,838	\$1,008	\$8,370	\$15,618	\$14,760	\$72,961	\$9,463	\$15,824	\$51,587	\$1,876	\$224,713

		R	ail Vehicle Accident Costs - August 2014		
Date	Incident #	Problem Code	Incident Description	Rep	air Cost
Metro Blue/Ex	po Line				
8/15/14	2494477	Train vs. Pedestrian	A 10-72 was reported at Del Amo Station.	\$	207
			Total	\$	207
Metro Gold Li	ne				
8/25/14	2498618	Train vs. Vehicle	A 10-73 was reported at Civic Center Drive, Track # 1 Northbound.	\$	1,669
			Total	\$	1,669
			Grand Total	\$	1,876
	(10-71) = Train	vs. Object, (10-72) = Train	vs. Pedestrian, (10-73) = Train vs. Vehicle (10-74) = Train vs. MTA Vehicle, (10-75) = Derailmer	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.



### Service Delivery August 2014

### **August 2014 - Service Delivery**

#### Blue/Expo Line Fleet Size: 92

Pull Out	Vehicles Required	<u>Average Available</u>	<u>% Up (Down</u>
Weekday:	78	78	100%
Weekend:	60	64	107%

Late Pullouts: 0\*

Monthly Mileage: 657,920

### Red/Purple Line Fleet Size: 104

Pull Out	Vehicles Required	Average Available	<u>% Up (Down)</u>
Weekday:	74	81	109%
Weekend:	54	72	133%

Late Pullouts: 0\*

Monthly Mileage: 648,038

### **Green Line Fleet Size: 29**

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

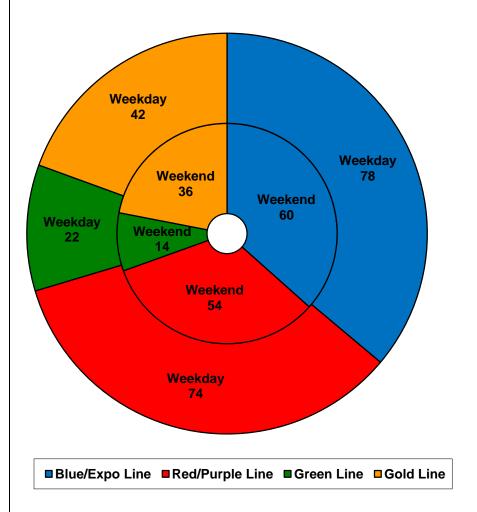
Late Pullouts: 0\*

Monthly Mileage: 232,695

#### **Gold Line Fleet Size: 50**

l.	Pull Out	Vehicles Required	Average Available	<u>% Up (Down)</u>
1	Weekday:	42	43	102%
,	Weekend:	36	40	111%
	Late Pullouts: 0*			

Monthly Mileage: 344,122

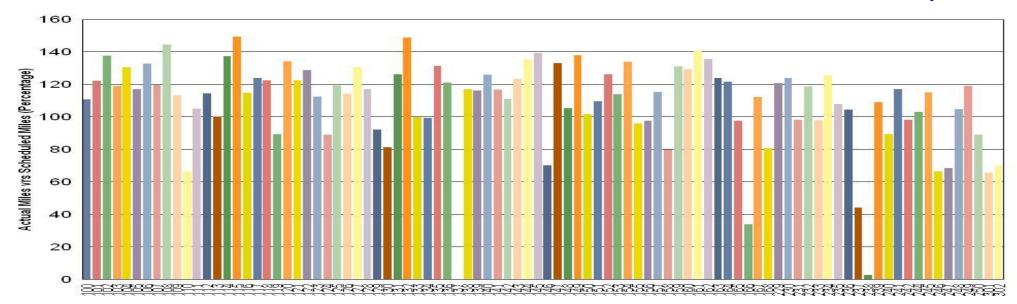




### **Vehicle Utilization** August 2014

### **Metro Blue/Expo Line**

**Metro Green Line** 



#### **Blue/Expo Line:**

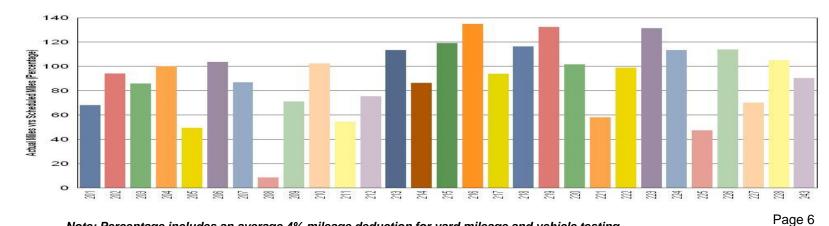
Car # 137 Out of service due to major accident repair.

Car # 166 Out of service for preventive maintenance, truck work and paint/body work.

Car # 238 Out of service for troubleshooting and repair due to repeat friction brake failure.

### **Green Line:** Car # 208 On hold for propulsion fault.





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

### Vehicle Utilization August 2014

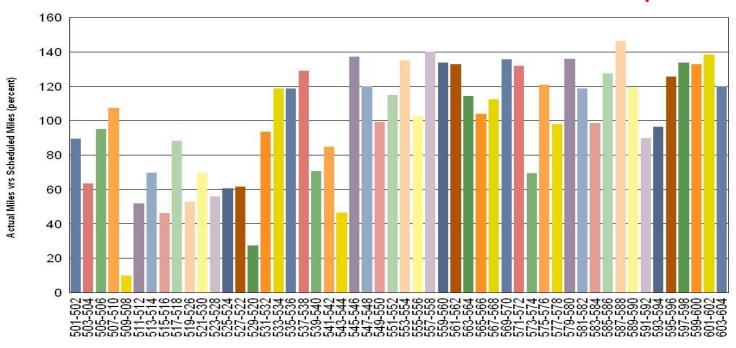
### **Metro Red/Purple Line**

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

The following cars were out of service due to:

Car # 509-508 Truck motor mount welding project

Car # 529-520 Floor project

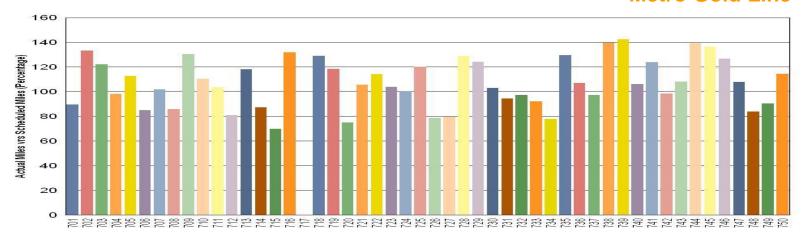


### **Metro Gold Line**

#### **Gold Line:**

Car # 717 Out of service for replacement of burnt wiring.

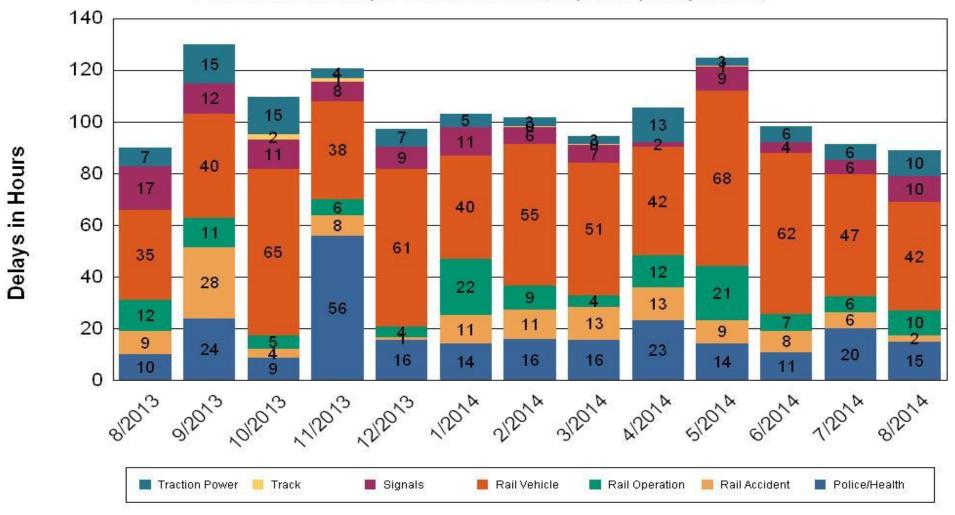




# All Train Delay (Hours) August 2014

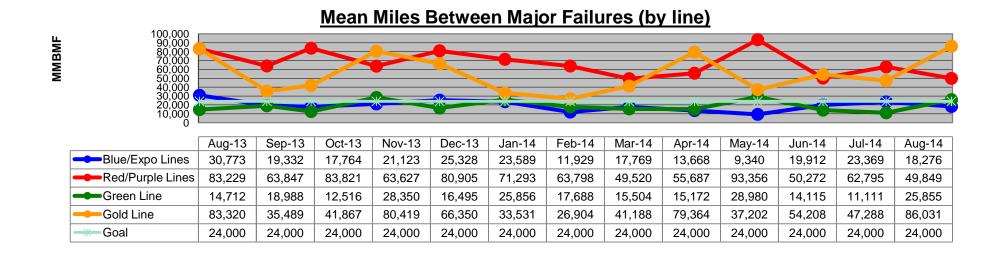
### **All Train Delays**

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

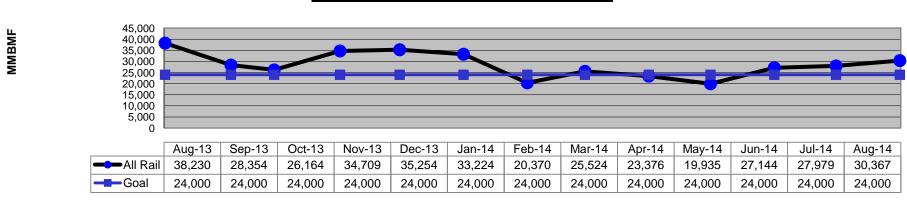




### Mean Miles Between Failures (Major) Year to Date – August 2014



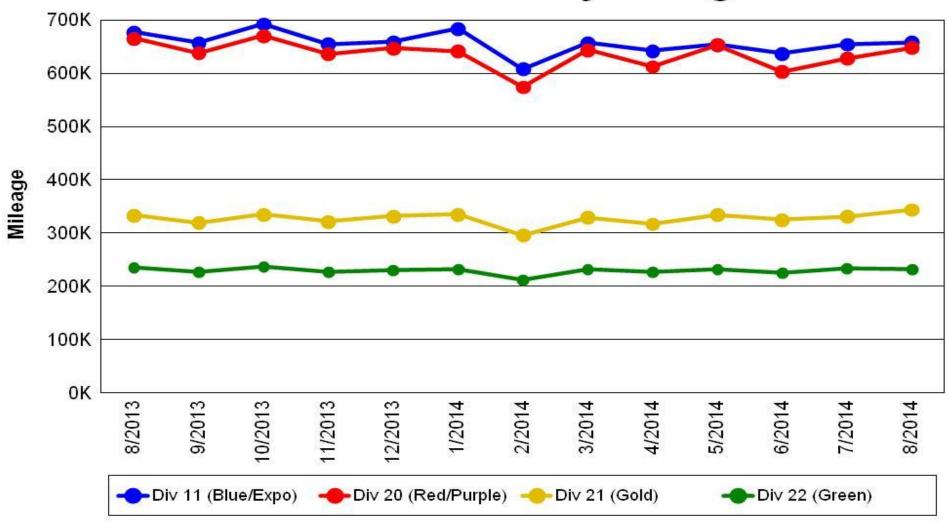
#### Mean Miles Between Major Failures (all)





# Mileage Between Data Range (by month) August 2014

# Rail Division Monthly Mileage

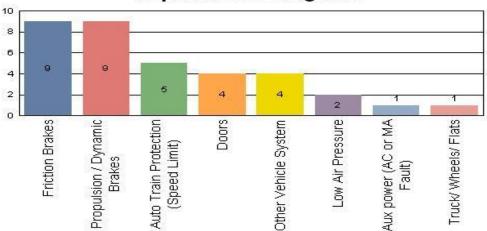




# Top Incident Categories August 2014

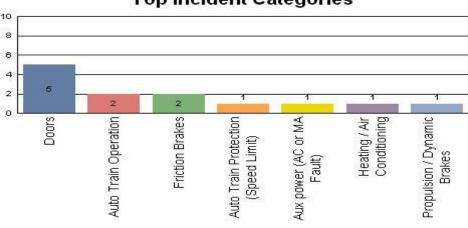


### **Top Incident Categories**



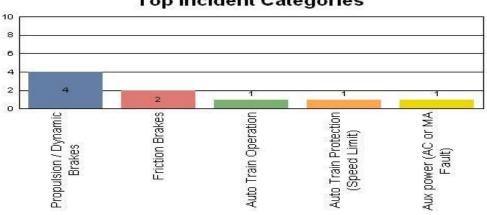
### **Metro Red/Purple Line**

### **Top Incident Categories**



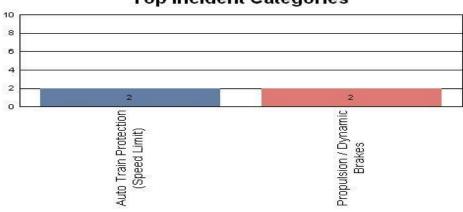
### **Metro Green Line**

#### **Top Incident Categories**



### **Metro Gold Line**

#### **Top Incident Categories**

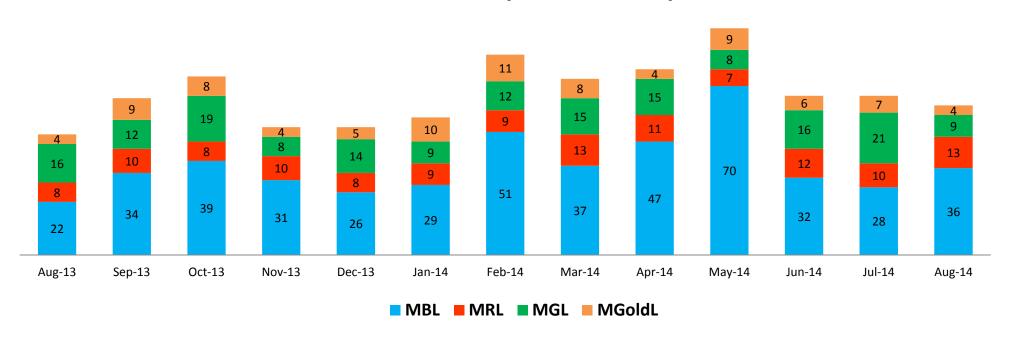




**Major Incident**: When a train does not complete its scheduled run or is more than 5 minutes late of its scheduled arrival time.

# Major Incidents August 2014

### **Numbers of Major Incidents by Line**



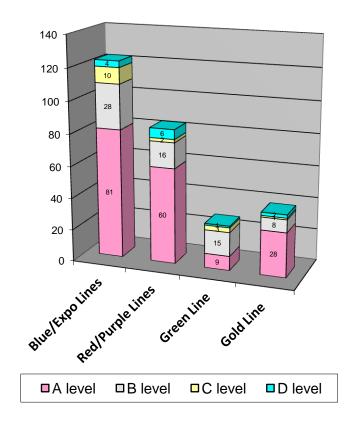


# Preventive Maintenance Compliance August 2014

PM Compliance	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-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%	100%	96%	92%	100%	100%	100%	100%	100%	100%	97%*	100%	100%
Gold Line	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Number of I	Preventive Ma	intenance Ins	spections - Au	gust 2014	
Line	A level	B level	C level	D level	Totals
Blue/Expo Lines	81	28	10	4	123
Red/Purple Lines	60	16	2	6	84
Green Line	9	15	3	1	28
Gold Line	28	8	1	2	39
Totals:	178	67	16	13	274

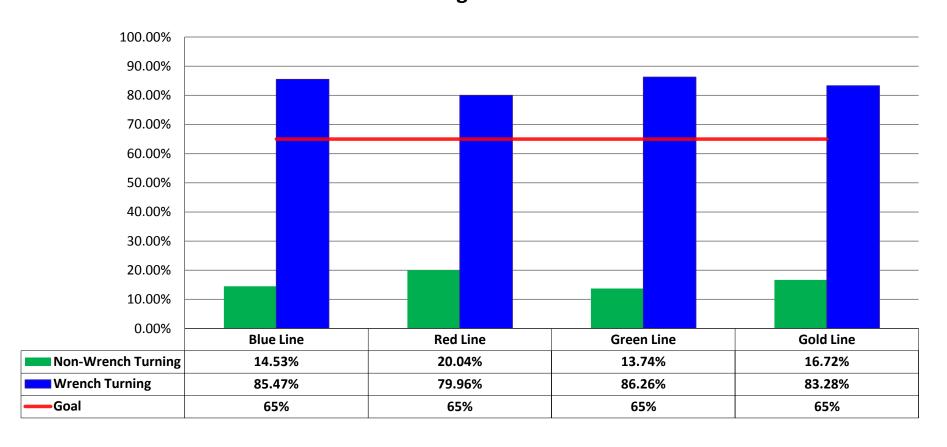
Explanation of PN	Inspection levels	Miles									
Line	Туре	A level	B level	C level	D level						
Blue/Expo Lines	P865/P2020	5,000	15,000	30,000	60,000						
Blue/Expo Lines	P2000	7,500	22,500	45,000	90,000						
Red/Purple Lines	A650	7,500	22,500	45,000	90,000						
Green Line	P2000	7,500	22,500	45,000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





# RFS Wrench Turning August 2014

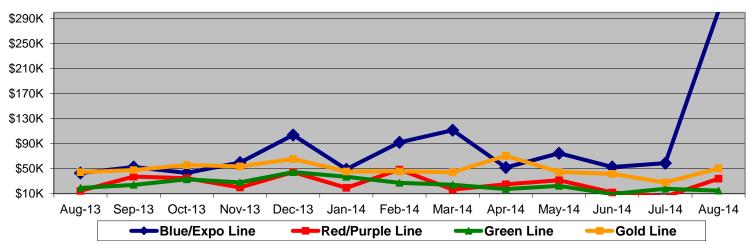
RFS - Wrench Turning August 2014





# Vandalism & Graffiti Report August 2014

						Graffit	i Costs							
	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	13-Month Period
Blue/Expo Line	\$43K	\$53K	\$43K	\$60K	\$104K	\$49K	\$92K	\$112K	\$52K	\$75K	\$53K	\$59K	\$303K	\$1096K
Red/Purple Line	\$14K	\$37K	\$35K	\$20K	\$44K	\$19K	\$49K	\$17K	\$25K	\$32K	\$12K	\$5K	\$34K	\$344K
Green Line	\$19K	\$24K	\$33K	\$28K	\$44K	\$37K	\$27K	\$24K	\$17K	\$22K	\$9K	\$18K	\$15K	\$320K
Gold Line	\$44K	\$48K	\$56K	\$54K	\$66K	\$46K	\$46K	\$44K	\$71K	\$45K	\$42K	\$28K	\$51K	\$638K
Totals:	\$121K	\$162K	\$167K	\$162K	\$258K	\$151K	\$214K	\$197K	\$165K	\$173K	\$116K	\$110K	\$402K	\$2,398K



August 2014	Vandalisn	n &	Graffiti - A	II R	ail	
	Qty Labor			Μ	laterials	Totals
Windows Replaced	1,632	\$	43,414	\$	244,505	\$ 287,919
Vandal Shields	1,182	\$	10,993	\$	35,160	\$ 46,153
Seats Cleaned	587	\$	3,285	\$	-	\$ 3,285
Seats Replaced	283	\$	8,915	\$	13,208	\$ 22,123
Graffiti Removal - Other	1,152	\$	29,551	\$	1,907	\$ 31,458
Repainting Panels	155	\$	5,952	\$	5,452	\$ 11,404
Totals	4,991	\$	102,110	\$	300,232	\$ 402,342

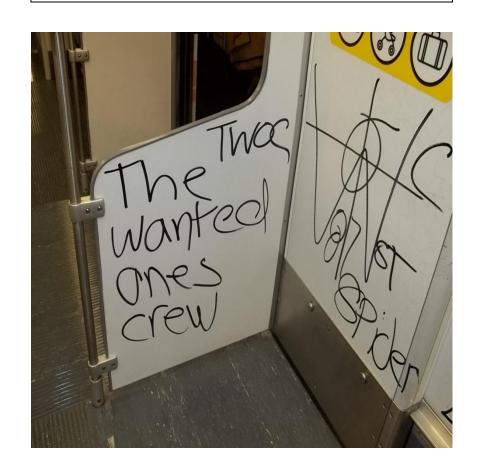


# **Graffiti Pictures August 2014**

### **Blue Line**

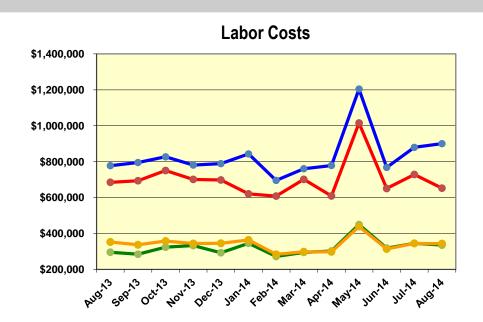


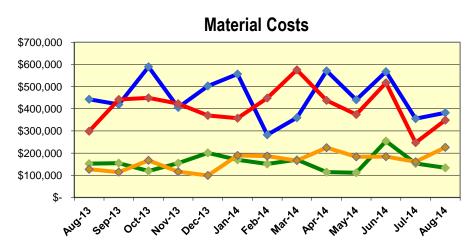
# **Green Line**





# Labor and Material Costs August 2014





		Aug-13		Sep-13	Oct-13	Nov-13	Dec-13	Jan-14		Feb-14		Mar-14	Apr-14	N	/lay-14*	Jun-14	Jul-14	Aug-14
								L	AB(	OR COST	S							
Blue/Expo Lines	\$	777,432	\$	794,828	\$ 826,769	\$ 780,678	\$ 788,589	\$ 842,979		695,394	\$	760,511	\$ 778,469	\$ 1	1,204,234	\$ 767,717	\$ 879,339	\$ 900,043
Red/Purple Lines	\$	684,850	\$	693,597	\$ 750,452	\$ 700,975	\$ 697,759	\$ 620,440	\$	608,097	\$	701,156	\$ 608,816	\$ 1	1,015,092	\$ 650,226	\$ 728,383	\$ 652,202
Green Line	\$	295,374	\$	284,105	\$ 323,749	\$ 332,737	\$ 292,482	\$ 345,262	\$	271,877	\$	294,381	\$ 302,213	\$	449,117	\$ 318,516	\$ 345,270	\$ 334,772
Gold Line	\$	352,473	\$	336,795	\$ 357,408	\$ 343,700	\$ 345,170	\$ 363,886	\$	283,563	\$	298,069	\$ 297,634	\$	438,759	\$ 313,589	\$ 344,331	\$ 343,246
Totals	\$ :	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	\$ 3	3,107,202	\$ 2,050,048	\$ 2,297,323	\$ 2,230,262

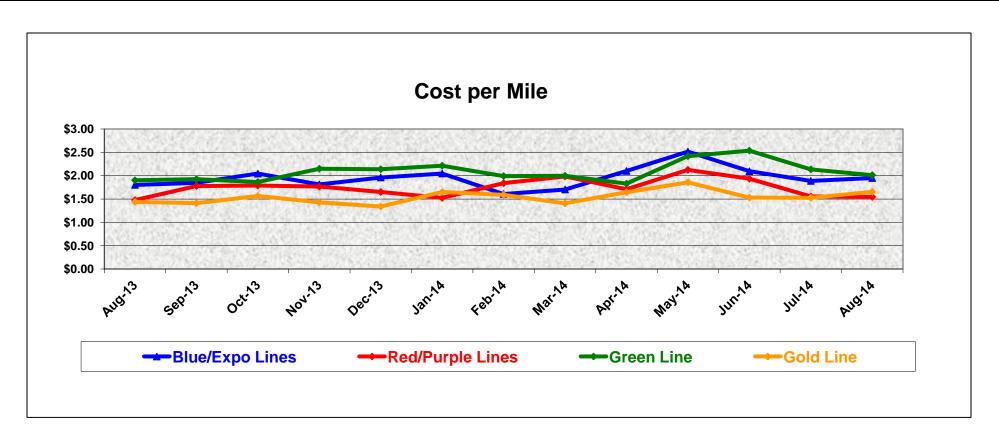
<sup>\*</sup>ATU Contract for pay increase was approved by the Board and ATU staff got retro pay in May 2014.

										MA	TEF	RIAL COS	STS								
Blue/Expo Lines	\$	442,803	\$ 419,133	\$	589,324	\$	406,032	\$	502,761	\$ 556,457	\$	282,466	\$	359,845	\$ 570,775	\$	440,576	\$ 567,257	\$ 355,405	\$	382,184
Red/Purple Lines	\$	298,670	\$ 441,927	\$	449,033	\$	422,849	\$	369,819	\$ 357,244	\$	448,225	\$	575,495	\$ 437,612	<b>\$</b>	373,815	\$ 516,934	\$ 247,048	\$	348,370
Green Line	\$	152,243	\$ 154,678	\$	119,411	\$	154,582	\$	201,035	\$ 169,759	\$	150,881	\$	170,250	\$ 113,979	<b>\$</b>	111,344	\$ 254,264	\$ 153,001	\$	133,386
Gold Line	\$	126,942	\$ 114,461	\$	167,128	\$	116,167	\$	99,267	\$ 189,310	\$	186,640	\$	166,216	\$ 224,430	\$	183,115	\$ 183,869	\$ 160,751	\$	225,818
Totals	\$ '	1,020,659	\$ 1,130,199	\$ 1	1,324,896	\$ 1	1,099,631	\$ ·	1,172,883	\$ 1,272,769	\$ ·	1,068,212	\$	1,271,807	\$ 1,346,796	\$	1,108,849	\$ 1,522,323	\$ 916,204	\$ 1	,089,759



# Cost Per Mile August 2014

Cost per mile:	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14
Blue/Expo Lines	\$1.80	\$1.85	\$2.04	\$1.81	\$1.96	\$2.05	\$1.61	\$1.70	\$2.10	\$2.52	\$2.10	\$1.89	\$1.95
Red/Purple Lines	\$1.48	\$1.78	\$1.79	\$1.77	\$1.65	\$1.52	\$1.84	\$1.98	\$1.71	\$2.13	\$1.93	\$1.55	\$1.54
Green Line	\$1.90	\$1.93	\$1.86	\$2.15	\$2.14	\$2.21	\$1.99	\$2.00	\$1.83	\$2.42	\$2.54	\$2.14	\$2.01
Gold Line	\$1.44	\$1.41	\$1.57	\$1.43	\$1.34	\$1.65	\$1.59	\$1.41	\$1.64	\$1.86	\$1.53	\$1.53	\$1.65





# ATU Absences vs. Overtime August 2014

	3940	3941	3942	3943	3944	3947	Total
ABSENCE TYPE and HOURS	Admin.	Blue	Red	Green	Gold	Expo	i Otai
AWP-ABSENT W/O PERMISSION	-	24	-	1	-	_	25
BER-BEREAVEMENT	-	128	-	24	24	_	176
CTO-COMPENSATORY TIME OFF	-	133	250	84	72	16	555
CUT-EMPLOYEE LEAVES EARLY	-	1	1	1	1	_	3
CVA - CASUAL VACATION	108	310	484	112	108	_	1,122
DSL-DISABILITY LEAVE/LONG	-	680	568	368	-	184	1,800
EFH-EMG. FLOAT HOL.	-	24	64	48	48	_	184
ETO-EXCUSED TIME OFF	3	75	32	21	66	4	199
FMI-FAM IND INJURY	-	8	24	-	168	-	200
FML-FAMILY CARE LEAVE	-	565	467	400	80	-	1,511
FMS-FAMILY LEAVE SICK	-	16	99	48	24	-	187
HLF-HOLIDAY FLOATING	56	712	440	280	136	48	1,672
HOL-HOLIDAY LEGAL	-	104	88	16	32	8	248
II-INDUSTRIAL INJURY	-	-	_	288	-	-	288
IPD-INJURED PARTIAL DAY	-	-	4	-	-	-	4
JUR-JURY DUTY	-	8	_	48	_	_	56
LC1-LABOR CODE 233	2	96	129	40	120	17	404
LTI-OCCPIL/LONGTRM INJ LEAVE	-	168	168	-	216	-	552
MLN-MILITARY ABSENCE-UNPAID	-	16	40	_	_	_	56
OWP-OFF WITH PERMISSION	-	-	-	-	4	_	4
RTO-REQUESTED TIME OFF-NO PAY	-	13	_	32	-	-	45
SCK-SICK PAY	16	392	72	32	96	-	608
SCW-SICK WITHOUT PAY	-	8	32	16	-	-	56
SUS-DISCIPLINARY SUSPENSION	-	-	-	-	40	_	40
TAR-TARDY	0	5	2	1	0	_	8
UB-UNION BUSINESS	-	-	-	8	8	_	16
UNP-UNION BUS PAID	-	-	16	-	-	_	16
VAC-VACATION	52	1,278	1,568	575	952	56	4,481
VAS-VACATION WHILE SICK	_	-	16	_	_	_	16
Total Absence Hours	237	4,763	4,563	2,443	2,195	333	14,533
ATU Number of Work Force (assigned)	8	126	109	48	51	5	347
Full Work Force hours/month	1,386	21,836	18,890	8,318	8,838	867	60,135
Absence as a % of Work Force	17%	22%	24%	29%	25%	38%	24%

	3940	3941	3942	3943	3944	3947	Total
OVERTIME TYPE and HOURS	Admin.	Blue	Red	Green	Gold	Expo	i otai
CTB-COMPENSATORY TIME TO BANK	4	282	562	111	98	32	1,088
OTP-PREM OVERTIME	366	6,139	4,654	2,340	1,713	165	15,378
WLO-Worked Lunch Overtime	21	180	157	151	93	8	609
Total Overtime Hours	390	6,601	5,374	2,602	1,904	204	17,074
Overtime as a % of Work Force	28%	30%	28%	31%	22%	24%	28%
FTE Calculation - Absence & OT Hour	3940	3941	3942	3943	3944	3947	<u>Total</u>
Absences FTE	1	27	26	14	13	2	84
OTP FTE	2	38	31	15	11	1	99
FTE Difference	-1	-11	-5	-1	2	1	-15



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

# RFS Instruction Department Activities August 2014

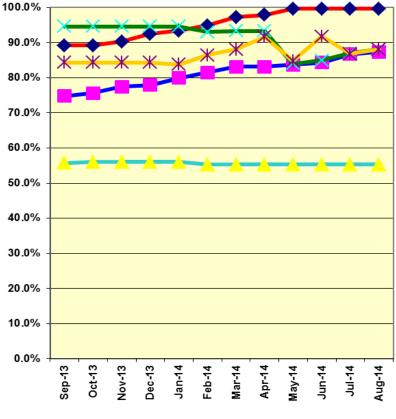
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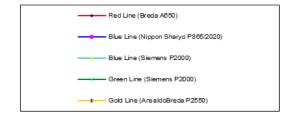
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### **Training classes completed during the month of August 2014**

Description	Course Hours	Student Count	Training Hours	_
Blue & Expo Line Training - (P865/2020 & P2000 LRV):				
RFS 865/2020 M.A. & LVPS	8	5	40	
WAYSIDE WORKER PROTECTION	4	3	12	
Total Blue Lin	e Training	(Hours):	52	=
Red Line Training (Breda A650 HRV):				
RFS SIMMONS WHEEL TRUE	24	4	96	
Total Red Lin	e Training	(Hours):	96	-
Green Line Training (P2000 LRVs):				
RFS SIEMENS 2000 FRICTION BRAKES	80	3	240	
RFS SIEMENS 2000 US&S ATP/ATO/TWC	24	4	96	
Total Green Lin	e Training	(Hours):	240	=
Gold Line Training (P2550 LRVs):				
RFS SIMMONS WHEEL TRUE RFS ANSALDOBREDA 2550 APS\LVPS\BATTERY	24 24	4 2	96 48	
Total Gold Lin	e Training	(Hours):	144	-
Total Gold Elli	c maning	(Hours).	144	
Total RFS Instruction for the month of Au	gust 2014	(Hours):	<u>532</u>	
Other Instruction Activities				
Instructor Vacation and Holiday			80	
A650 Curriculum, Administrative, and Technical Support			80	
P865\P2020 Curriculum, Administrative, and Technical Support			80	
P2000 Curriculum, Administrative, and Technical Support			56	
P2550 Curriculum, Administrative, and Technical Support			40	
LATTC Curriculum Development (KSME)			120	
Total Other Instruction Activitie	<u>es</u>		<u>456</u>	
Core Vehicle Training Complete	d: BLUE	RED	GREEN	GOLD
Percentage of core vehicle training complete	e: 87.4%	99.6%	88.1%	88.1%

### **Core Training Completed**





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

