

Rail Fleet Services Monthly Report September 2014



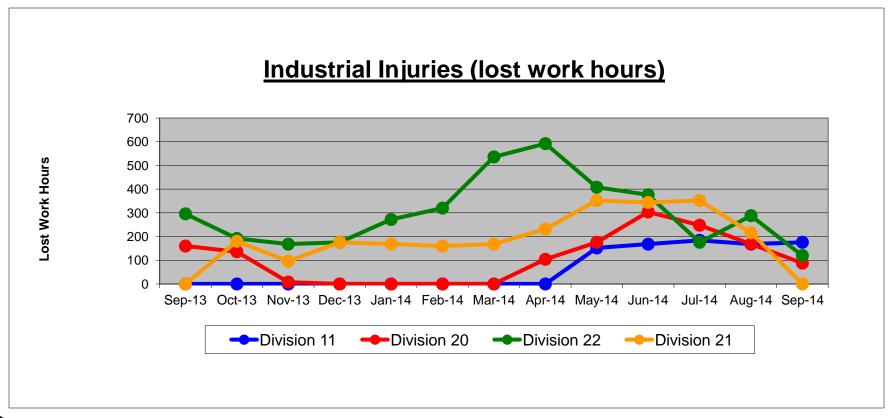
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Industrial Injuries – Lost Work Hours September 2013-2014

	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	13-Month Period
Division 11	0	0	0	0	0	0	0	0	152	168	184	168	176	848
Division 20	160	136	8	0	0	0	0	104	176	304	248	168	88	1,392
Division 22	296	192	168	176	272	320	536	592	408	376	176	288	120	3,920
Division 21	0	180	96	176	168	160	168	232	352	344	352	216	0	2,444
Totals	456	508	272	352	440	480	704	928	1,088	1,192	960	840	384	8,604





Rail Vehicle Accidents & Major Incidents September 2013-2014

Repair Costs	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	13-Month Period
Blue/Expo Line	\$3,700	\$11,475	\$13,838	\$0	\$8,370	\$15,618	\$13,690	\$72,961	\$9,463	\$9,964	\$1,528	\$207	\$42,690	\$203,504
Red/Purple Line	\$0	\$0	\$0	\$0	\$0	\$0	\$356	\$0	\$0	\$0	\$0	\$0	\$0	\$356
Green Line	\$0	\$0	\$0	\$1,008	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,008
Gold Line	\$0	\$0	\$0	\$0	\$0	\$0	\$714	\$0	\$0	\$5,860	\$50,059	\$1,669	\$0	\$58,302
Totals	\$3,700	\$11,475	\$13,838	\$1,008	\$8,370	\$15,618	\$14,760	\$72,961	\$9,463	\$15,824	\$51,587	\$1,876	\$42,690	\$263,170

		Rail V	ehicle Accident Costs - September 2014		
Date	Incident #	Problem Code	Incident Description	Rep	air Cost
Metro Blue/E	xpo Line				
9/5/14	2503152	Train vs. Vehicle	A 10-73 was reported at Raymond Avenue Grade Crossing.	\$	8,820
9/7/14	2503501	Train vs. Vehicle	A 10-73 was reported at Track #2, Southbound, 41st Street Grade Crossing.	\$	15,230
9/8/14	2503932	Train vs. Vehicle	A 10-73 was reported at Track #2, Southbound, Intersection of Flower and 18th Street.	\$	9,563
9/12/14	2505940	Train vs. Vehicle	A 10-73 was reported at Burnett and Long Beach Blvd.	\$	9,077
9/26/14	2511500	Train vs. Pedestrian	A 10-72 was reported. Train mirror made contact with patron on the platform. Location-Artesia station Track #2.	\$	-
			Total	\$	42,690
			Grand Total	\$	42,690
	(10-71) = Train	vs. Object, (10-72) = Train	n vs. Pedestrian, (10-73) = Train vs. Vehicle (10-74) = Train vs. MTA Vehicle, (10-75) = Derailmen	t	

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 September 2014

September 2014 - Service Delivery

Blue/Expo Line Fleet Size: 92

Pull Out	Vehicles Required	Average Available	<u>% Up (Down)</u>
Weekday:	78	78	100%
Weekend:	60	65	108%

Late Pullouts: 0*

Monthly Mileage: 632,898

Red/Purple Line Fleet Size: 104

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

Late Pullouts: 0*

Monthly Mileage: 596,970

Green Line Fleet Size: 29

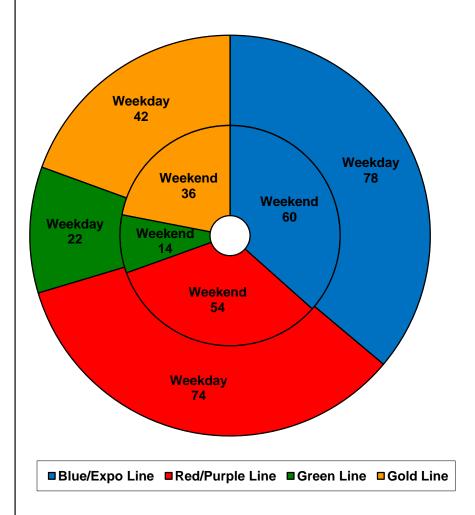
Pull Out	Vehicles Required	Average Available	% Up (Down)
Weekday:	22	22	100%
Weekend:	14	17	121%

Late Pullouts: 0*

Monthly Mileage: 227,990

Gold Line Fleet Size: 50

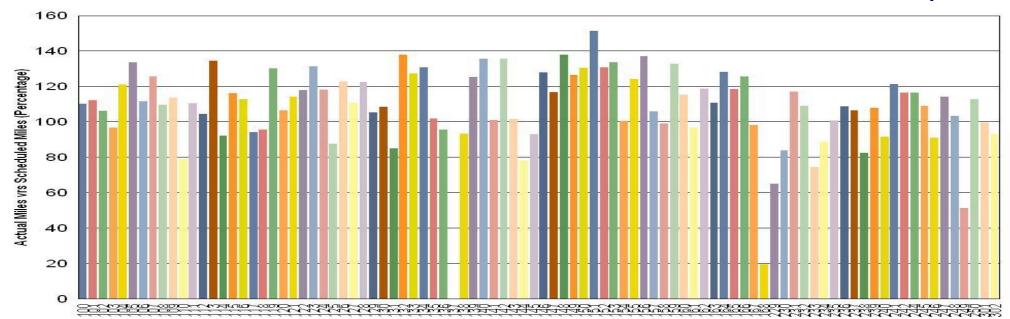
Pull Out	Vehicles Required	Average Available	% Up (Down)
Weekday:	42	43	102%
Weekend:	36	40	111%
Late Pullouts: 0*			
Monthly Mileage:	329,996		





Vehicle Utilization September 2014

Metro Blue/Expo Line



Blue/Expo Line:

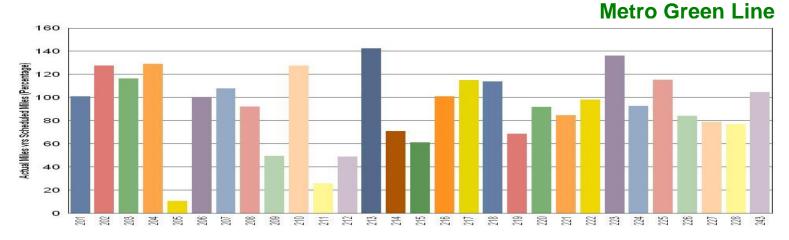
Car # 137 Out of service due to major accident repair

Car # 168 Out of service for engineering troubleshooting (repeat propulsion issues).

Green Line:

Car # 205 On hold for Electromagnetic Interference Car # 211 On hold for inverter issues





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

Vehicle Utilization September 2014

Metro Red/Purple Line

Red/Purple Line:

The following cars were out of service due to:

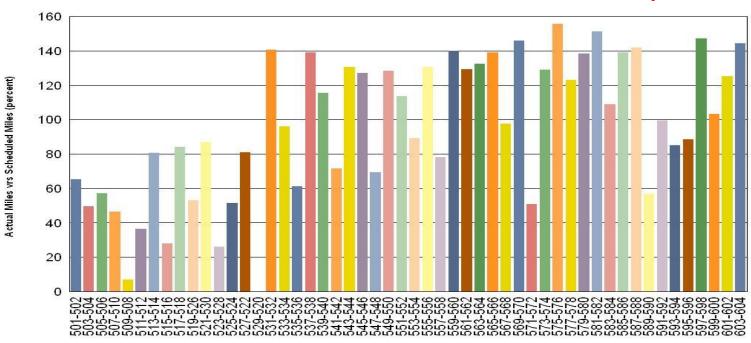
Car # 509-508 Door and HVAC project

Car # 511-512 Truck Vibration

Car # 515-516 Berthing Problem

Car # 523-528 Propulsion Problem

Car # 529-520 Floor project

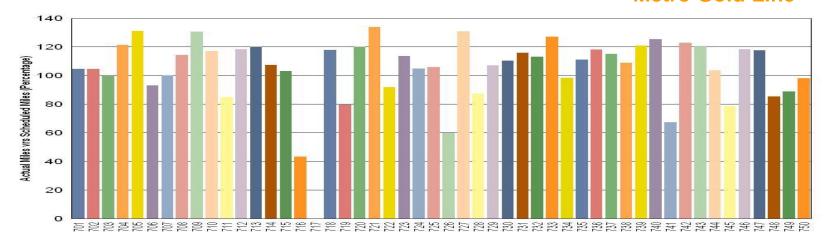


Metro Gold Line

Gold Line:

Car # 717 Out of service for replacement of burnt wiring

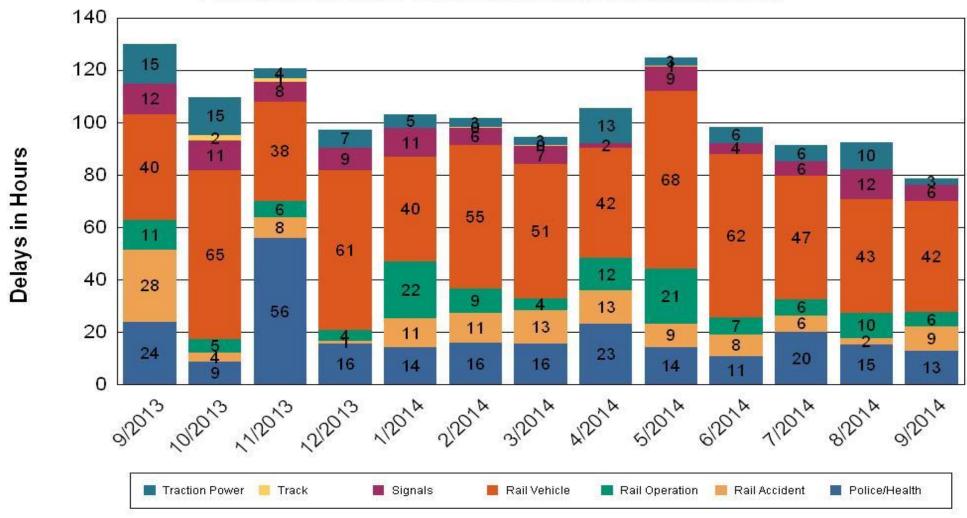




All Train Delay (Hours) September 2013-2014

All Train Delays

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

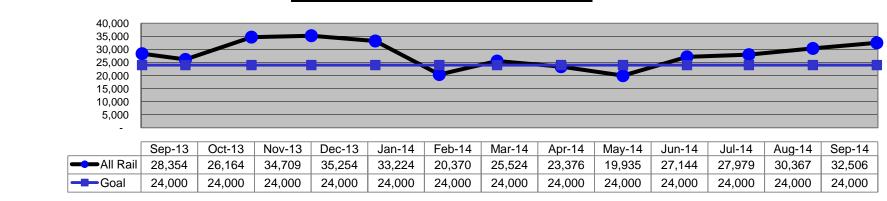




Mean Miles Between Failures (Major) September 2013-2014

Mean Miles Between Major Failures (by line) 120,000 MMBMF 100,000 80,000 60,000 40,000 20,000 0 Sep-13 Oct-13 Nov-13 Dec-13 Jan-14 Feb-14 Mar-14 Apr-14 May-14 Jul-14 Aug-14 Sep-14 Jun-14 Blue/Expo Lines 19,332 17,764 21,123 25,328 23,589 11,929 17,769 13,668 9,340 19,912 23,369 18,276 16,655 Red/Purple Lines 63,847 83,821 63,627 80,905 71,293 63,798 49,520 55,687 93,356 50,272 62,795 49,849 74,621 Green Line 18,988 12,516 28,350 16,495 25,856 17,688 15,504 15,172 28,980 14,115 11,111 25,855 37,998 Gold Line 41,867 80,419 109,999 35,489 66,350 33,531 26,904 41,188 79,364 37,202 54,208 47,288 86,031 Goal 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000

Mean Miles Between Major Failures (all)

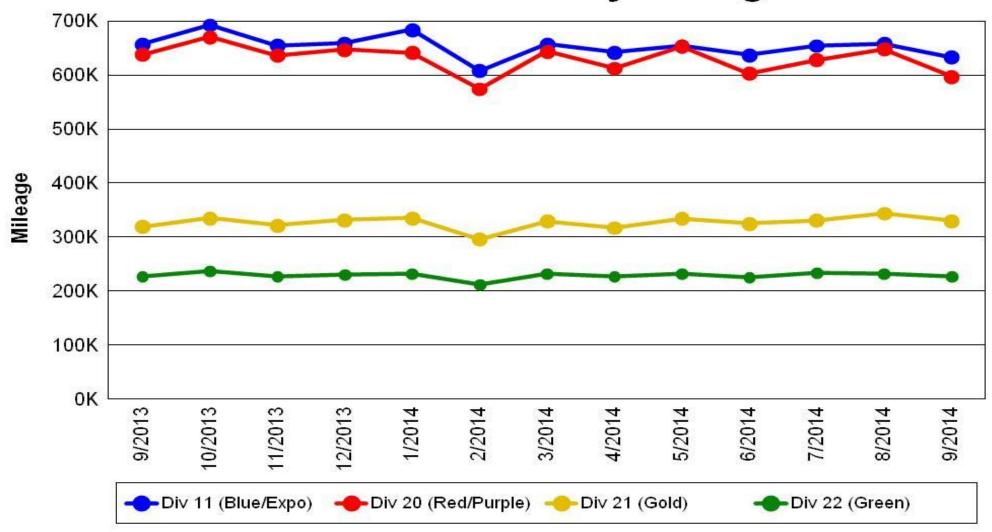




MMBMF

Mileage Between Data Range (by month) September 2013-2014

Rail Division Monthly Mileage

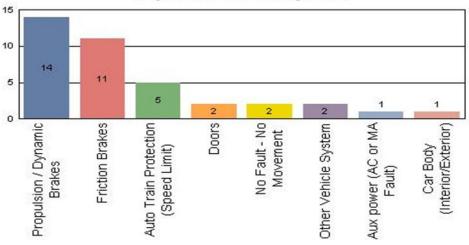




Top Incident Categories September 2014

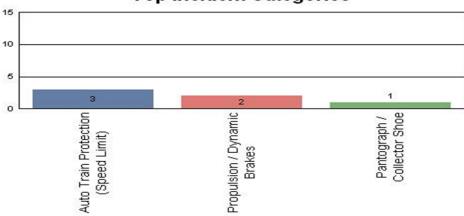
Metro Blue/Expo Line

Top Incident Categories



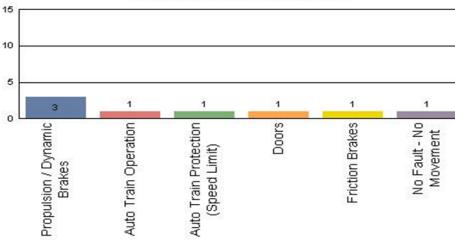
Metro Green Line

Top Incident Categories



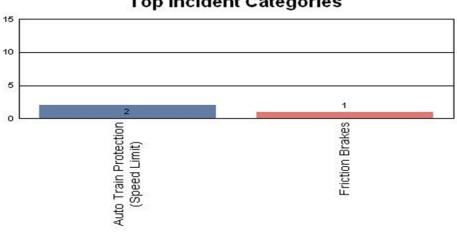
Metro Red/Purple Line

Top Incident Categories



Metro Gold Line

Top Incident Categories

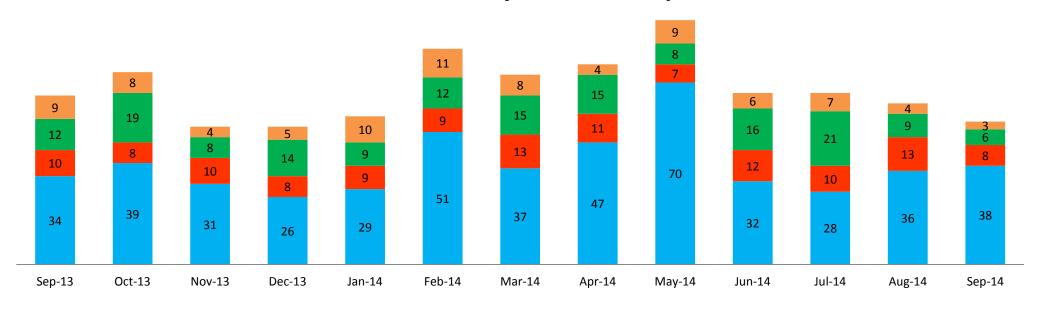




Major Incident: When a train does not complete its scheduled run or is more than 5 minutes late of its scheduled arrival time.

Major Incidents September 2013-2014

Numbers of Major Incidents by Line





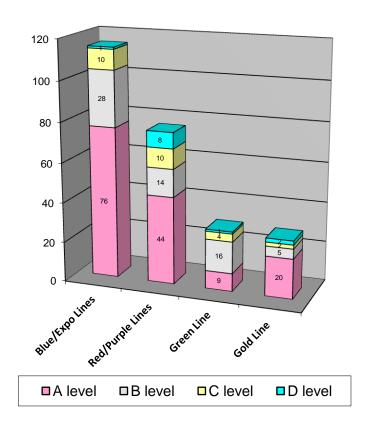


Preventive Maintenance Compliance September 2013-2014

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

Number of Prev	Number of Preventive Maintenance Inspections - September 2014													
Line	A level	B level	C level	D level	Totals									
Blue/Expo Lines	76	28	10	1	115									
Red/Purple Lines	44	14	10	8	76									
Green Line	9	16	4	1	30									
Gold Line 20 5 2 2 2														
Totals:	149	63	26	12	250									

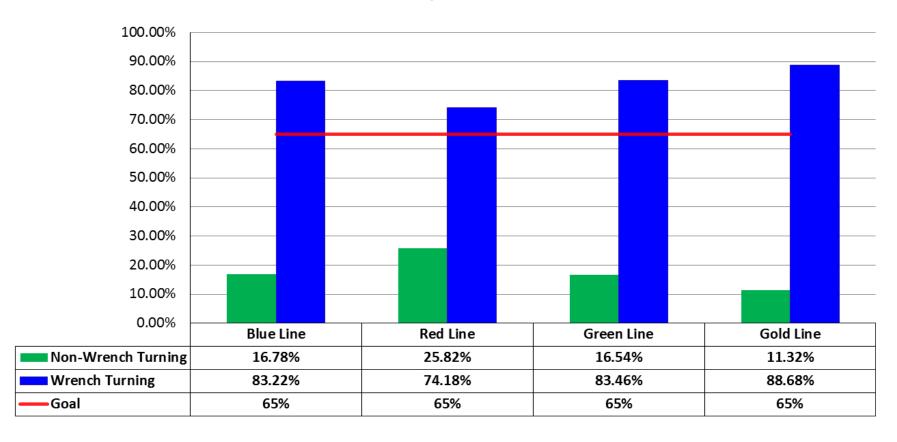
Explanation of PM	/ Inspection levels		Miles								
Line	Туре	A level	B level	C level	D level						
Blue/Expo Lines	P865/P2020	5,000	15,000	30,000	60,000						
Blue/Expo Lines	P2000	7,500	22,500	45,000	90,000						
Red/Purple Lines	A650	7,500	22,500	45,000	90,000						
Green Line	P2000	7,500	22,500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





RFS Wrench Turning September 2014

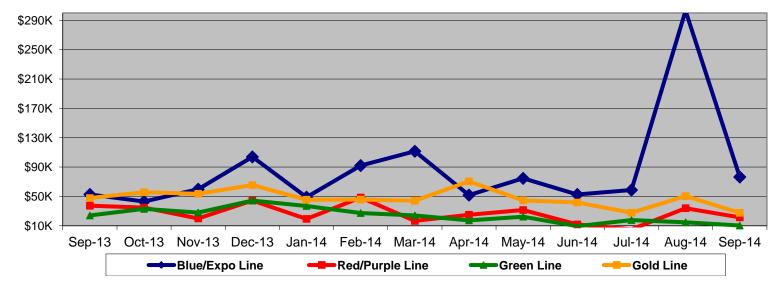
RFS - Wrench Turning September 2014





Vandalism & Graffiti Report September 2013-2014

						Graffit	Costs							
	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	13-Month Period
Blue/Expo Line	\$53K	\$43K	\$60K	\$104K	\$49K	\$92K	\$112K	\$52K	\$75K	\$53K	\$59K	\$303K	\$77K	\$1130K
Red/Purple Line	\$37K	\$35K	\$20K	\$44K	\$19K	\$49K	\$17K	\$25K	\$32K	\$12K	\$5K	\$34K	\$22K	\$351K
Green Line	\$24K	\$33K	\$28K	\$44K	\$37K	\$27K	\$24K	\$17K	\$22K	\$9K	\$18K	\$15K	\$10K	\$311K
Gold Line	\$48K	\$56K	\$54K	\$66K	\$46K	\$46K	\$44K	\$71K	\$45K	\$42K	\$28K	\$51K	\$28K	\$621K
Totals:	\$162K	\$167K	\$162K	\$258K	\$151K	\$214K	\$197K	\$165K	\$173K	\$116K	\$110K	\$402K	\$136K	\$2,412K



September 20	14 Vandal	ism	& Graffiti	- AII	Rail	
	Qty		Labor	М	aterials	Totals
Windows Replaced	127	\$	14,616	\$	29,341	\$ 43,957
Vandal Shields Replaced	232	\$	3,570	\$	2,588	\$ 6,158
Seats Cleaned	680	\$	2,701	\$	_	\$ 2,701
Seats Inserts Replaced	526	\$	16,569	\$	21,178	\$ 37,747
Graffiti Removal - Other	930	\$	38,032	\$	2,553	\$ 40,585
Repainting Panels	154	\$	-	\$	4,851	\$ 4,851
Totals	2,649	\$	75,488	\$	60,511	\$ 135,999



Graffiti Pictures September 2014

Blue Line

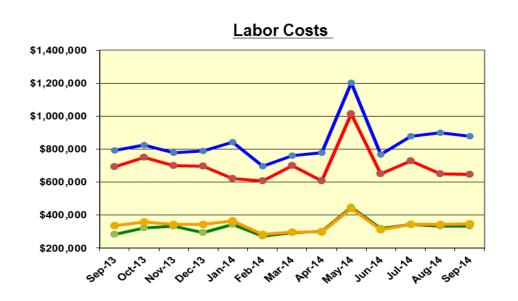


Green Line





Labor and Material Costs September 2013-2014





	Sep)-13	(Oct-13	N	Nov-13		Dec-13	,	Jan-14	Feb-14		Mar-14		Apr-14	Ма	y-14*	Jun-14		Jul-14	-	Aug-14		Sep-14
											1.	AD.	OD COST	·C										
											L	40(OR COST	<u>ა</u>										
Blue/Expo Lines	\$ 79	94,828	\$	826,769	\$	780,678	\$	788,589	\$	842,979	\$ 695,394	\$	760,511	\$	778,469	\$ 1,2	204,234	\$ 767,717	\$	879,339	\$	900,043	\$\$	878,598
Red/Purple Lines	\$ 69	93,597	\$	750,452	\$	700,975	\$	697,759	\$	620,440	\$ 608,097	\$	701,156	\$	608,816	\$ 1,0	15,092	\$ 650,226	\$	728,383	\$	652,202	\$	645,981
Green Line	\$ 28	34,105	\$	323,749	\$	332,737	\$	292,482	\$	345,262	\$ 271,877	\$	294,381	\$	302,213	\$ 4	149,117	\$ 318,516	\$	345,270	\$	334,772	\$	331,870
Gold Line	\$ 33	36,795	\$	357,408	\$	343,700	\$	345,170	\$	363,886	\$ 283,563	\$	298,069	\$	297,634	\$ 4	138,759	\$ 313,589	\$	344,331	\$	343,246	\$	348,288
Totals	\$ 2,10	09,325	\$ 2	2,258,378	\$ 2	2,158,090	\$ 2	2,123,999	\$ 2	2,172,567	\$ 1,858,931	\$	2,054,117	\$	1,987,132	\$ 3,1	07,202	\$ 2,050,048	\$ 2	2,297,323	\$ 2	2,230,262	\$	2,204,736

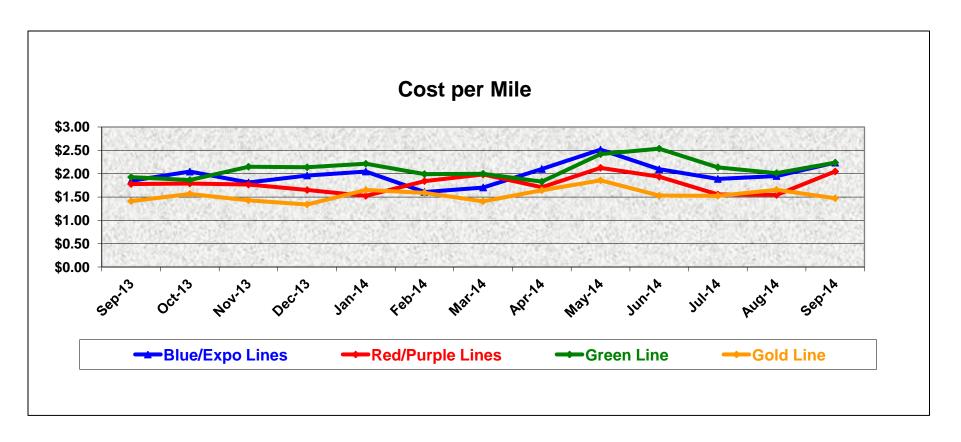
^{*}ATU Contract for pay increase was approved by the Board and ATU staff got retro pay in May 2014.

	MATERIAL COSTS																				
Blue/Expo Lines	\$ 419,133	\$	589,324	\$	406,032	\$	502,761	\$	556,457	\$	282,466	\$	359,845	\$ 570,775	\$ 440,576	\$ 567,257	\$ 355,405	\$	382,184	\$	536,100
Red/Purple Lines	\$ 441,927	\$	449,033	\$	422,849	\$	369,819	\$	357,244	\$	448,225	\$	575,495	\$ 437,612	\$ 373,815	\$ 516,934	\$ 247,048	\$	348,370	\$	576,230
Green Line	\$ 154,678	\$	119,411	\$	154,582	\$	201,035	\$	169,759	\$	150,881	\$	170,250	\$ 113,979	\$ 111,344	\$ 254,264	\$ 153,001	\$	133,386	\$	178,206
Gold Line	\$ 114,461	\$	167,128	\$\$	116,167	\$	99,267	\$	189,310	\$	186,640	\$\$	166,216	\$ 224,430	\$ 183,115	\$ 183,869	\$ 160,751	\$\$	225,818	\$	137,883
Totals	\$ 1,130,199	\$	1,324,896	\$	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	\$ '	1,428,418



Cost Per Mile September 2013-2014

Cost per mile:	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14
Blue/Expo Lines	\$1.85	\$2.04	\$1.81	\$1.96	\$2.05	\$1.61	\$1.70	\$2.10	\$2.52	\$2.10	\$1.89	\$1.95	\$2.24
Red/Purple Lines	\$1.78	\$1.79	\$1.77	\$1.65	\$1.52	\$1.84	\$1.98	\$1.71	\$2.13	\$1.93	\$1.55	\$1.54	\$2.05
Green Line	\$1.93	\$1.86	\$2.15	\$2.14	\$2.21	\$1.99	\$2.00	\$1.83	\$2.42	\$2.54	\$2.14	\$2.01	\$2.24
Gold Line	\$1.41	\$1.57	\$1.43	\$1.34	\$1.65	\$1.59	\$1.41	\$1.64	\$1.86	\$1.53	\$1.53	\$1.65	\$1.47





ATU Absences vs. Overtime September 2014

	3941 & 3947	3942	3943	3944	Total
ABSENCE TYPE and HOURS	Blue & Expo	Red	Green	Gold	i Otai
AWP-ABSENT W/O PERMISSION	8	-	-	-	8
BER-BEREAVEMENT	24	_	64	_	88
CTO-COMPENSATORY TIME OFF	302	199	68	32	601
CUT-EMPLOYEE LEAVES EARLY	3	_	2	_	5
CVA - CASUAL VACATION	240	295	108	96	739
DSL-DISABILITY LEAVE/LONG	676	544	344	16	1,580
EFH-EMG. FLOAT HOL.	_	40	24	16	80
ETO-EXCUSED TIME OFF	71	31	15	76	193
FMI-FAM IND INJURY	8	_	-	16	24
FML-FAMILY CARE LEAVE	676	322	520	176	1,694
FMS-FAMILY LEAVE SICK	96	114	40	40	290
HLF-HOLIDAY FLOATING	408	312	176	192	1,088
HNP-HOLIDAY NOT PAID	_	8	24	_	32
HOL-HOLIDAY LEGAL	536	440	72	128	1,176
II-INDUSTRIAL INJURY	-	-	120	-	120
JUR-JURY DUTY	16	32	16	-	64
LC1-LABOR CODE 233	112	188	76	112	488
LTI-OCCPIL/LONGTRM INJ LEAVE	176	88	-	_	264
MLN-MILITARY ABSENCE-UNPAID	-	80	-	_	80
OWP-OFF WITH PERMISSION	_	36	-	4	40
RTO-REQUESTED TIME OFF-NO PAY	40	_	8	_	48
SCK-SICK PAY	300	128	96	120	644
SCW-SICK WITHOUT PAY	86	16	40	_	142
TAR-TARDY	1	2	2	_	5
VAC-VACATION	1,246	832	320	784	3,182
VAS-VACATION WHILE SICK	_	16	-	_	16
Total Absence Hours	5,026	3,724	2,134	1,808	12,693
ATU Number of Work Force (assigned)	135	109	48	52	344
Full Work Force hours/month	23,396	18,890	8,318	9,012	59,615
Absence as a % of Work Force	21%	20%	26%	20%	21%

OVERTIME TYPE and HOURS	3941 & 3947 Blue & Expo	3942 Red	3943 Green	3944 Gold	Total
CTB-COMPENSATORY TIME TO BANK	320	183	22	90	616
OTP-PREM OVERTIME	5,469	4,164	1,849	1,829	13,311
WLO-Worked Lunch Overtime	185	130	133	85	532
Total Overtime Hours	5,974	4,477	2,003	2,004	14,459
Overtime as a % of Work Force	26%	24%	24%	22%	24%



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

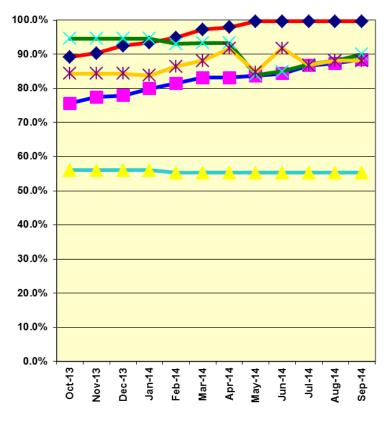
RFS Instruction Department Activities September 2014

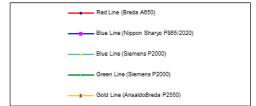
Training classes completed during the month of September 2014

Description	Course Hours	Student Count	Training Hours
Phys 9 Ferra Line Tarining (Teatrons a Passa Pro-			
Blue & Expo Line Training - (P865/2020 & P2000 LRV): RFS 865/2020 COMMUNICATIONS	8	5	40
RFS 865/2020 CAR BODY	8	5	40
RFS 865/2020 LVPS & BATTERY	8	5	40
RFS 865/2020 DOOR CONTROL SYS.	56	5	280
Total Blue Line	Training	(Hours):	400
Red Line Training (Breda A650 HRV):			
RES SIMMONS WHEEL TRUE	24	2	48
RFS BREDA 650 MAINLINE DUTY, DEAD TOW AND VEHICLE RECOVERY	8	1	8
Total Red Line	Training	(Hours):	56
Out of the Tarinian management			
Green Line Training (P2000 LRVs):	00		00
RFS SIEMENS 2000 AUX. INVERTER RFS SIEMENS 2000 US&S ATP/ATO/TWC	32 24	3 4	96 96
RFS SIEMENS 2000 05&5 ATP/ATO/TWC	2 4 16	3	96 48
N O GIEMENO 2000 HVAO	10	3	40
Total Green Line	Training	(Hours):	240
Gold Line Training (P2550 LRVs):			
RFS SIMMONS WHEEL TRUE	24	3	72
Total Gold Line	Training	(Hours):	72
Total RFS Instruction for the month of Septem	nber 2014	(Hours):	<u>768</u>
Other Instruction Activities			
Oniei instruction Activities			
A650 Curriculum, Administrative, and Technical Support			120
P865\P2020 Curriculum, Administrative, and Technical Support			80
P2000 Curriculum, Administrative, and Technical Support			56
P2550 Curriculum, Administrative, and Technical Support			140
LATTC Curriculum Development (KSME)			120
Total Other Instruction Activitie	<u>s</u>		<u>596</u>

Metro

Core Training Completed







Core Vehicle Training Completed: RED GREEN GOLD Percentage of core vehicle training complete: 88.5% 90.0% 88.1% 99.6% Siemens P2000 training complete: N/A N/A N/A Average Specialist Rail Experience Level in Years: 12.4 10.9 9.7 9.3

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