

Concord Steam Corporation
Cost Of Energy (COE)

DG 13 - 255
Schedule 1
rev 10/1/13

	Projected Steam Sales Mlbs	Projected Fuel Use MMBtu	\$/Mlb	Steam Revenue Energy	Cost of Energy	Projected Over/Under Collection
Nov-13	13,521	44,320	\$ 20.83	\$ 281,699	\$ 266,322	\$ 15,377
Dec-13	21,496	61,680	20.83	\$ 447,861	\$ 343,043	\$ 104,818
Jan-14	28,460	68,250	20.83	\$ 592,950	\$ 392,189	\$ 200,760
Feb-14	24,012	64,450	20.83	\$ 500,275	\$ 364,165	\$ 136,110
Mar-14	16,387	55,230	20.83	\$ 341,427	\$ 329,416	\$ 12,011
Apr-14	10,987	38,506	20.83	\$ 228,904	\$ 237,919	\$ (9,015)
May-14	3,524	25,800	20.83	\$ 73,424	\$ 148,487	\$ (75,063)
Jun-14	1,360	20,150	20.83	\$ 28,327	\$ 106,041	\$ (77,714)
Jul-14	963	19,000	20.83	\$ 20,064	\$ 153,655	\$ (133,591)
Aug-14	1,168	19,710	20.83	\$ 24,335	\$ 97,272	\$ (72,937)
Sep-14	1,821	19,700	20.83	\$ 37,940	\$ 97,378	\$ (59,438)
Oct-14	9,607	35,250	20.83	\$ 200,153	\$ 179,676	\$ 20,477
TOTAL	133,304	472,046		2,777,360	\$ 2,715,565	61,795

Under collection from last year **-61,795**

Energy Charge - \$ per Mlb **\$ 20.83**
Total of Cost of Energy Charge 2,777,360

Average COE charge for last year \$ 21.08

Change vs last year **-1.16%**

Projected MMBtu's and Cost:

	Projected MMBtu's					Total
	Nat. Gas	Waste	#6 Resid	Waste+ #6	Wood	
Nov-13	12,820	0	-	-	31,500	44,320
Dec-13	12,180	0	-	-	49,500	61,680
Jan-14	15,090	0	-	-	53,160	68,250
Feb-14	12,550	0	-	-	51,900	64,450
Mar-14	12,820	0	-	-	42,410	55,230
Apr-14	10,225	0	-	-	28,281	38,506
May-14	5,200	0	-	-	20,600	25,800
Jun-14	2,900	0	-	-	17,250	20,150
Jul-14	2,000	0	-	-	17,000	19,000
Aug-14	1,700	0	-	-	18,010	19,710
Sep-14	1,500	0	-	-	18,200	19,700
Oct-14	6,400	0	-	-	28,850	35,250
	95,385	0	0	0	376,661	472,046

bbls bbls bbls tons
- - - 44,313

	Projected Costs					Other Production costs	Total
	Nat. Gas	Waste Oil	#6 Resid	Waste+ #6	Wood		
Nov-13	\$ 121,061	\$ -	\$ -	\$ -	\$ 127,261	18,000	\$ 266,322
Dec-13	\$ 115,061	\$ -	\$ -	\$ -	\$ 199,982	28,000	\$ 343,043
Jan-14	\$ 142,421	\$ -	\$ -	\$ -	\$ 214,769	35,000	\$ 392,189
Feb-14	\$ 118,487	\$ -	\$ -	\$ -	\$ 209,678	36,000	\$ 364,165
Mar-14	\$ 121,078	\$ -	\$ -	\$ -	\$ 171,338	37,000	\$ 329,416
Apr-14	\$ 96,663	\$ -	\$ -	\$ -	\$ 114,256	27,000	\$ 237,919
May-14	\$ 43,263	\$ -	\$ -	\$ -	\$ 83,225	22,000	\$ 148,487
Jun-14	\$ 24,351	\$ -	\$ -	\$ -	\$ 69,691	12,000	\$ 106,041
Jul-14	\$ 16,975	\$ -	\$ -	\$ -	\$ 68,681	68,000	\$ 153,655
Aug-14	\$ 14,510	\$ -	\$ -	\$ -	\$ 72,762	10,000	\$ 97,272
Sep-14	\$ 12,850	\$ -	\$ -	\$ -	\$ 73,529	11,000	\$ 97,378
Oct-14	\$ 53,121	\$ -	\$ -	\$ -	\$ 116,555	10,000	\$ 179,676
	\$ 879,839	\$ -	\$ -	\$ -	\$ 1,521,726	\$ 314,000	\$ 2,715,565

	Projected mmbtu costs			Average oil	
	Gas	Waste	#6	#6 + waste	Wood
\$/MMBtu	\$ 9.22	\$ -	\$ -	\$ -	\$ 4.04
	Decatherm	Bbl	Bbl		Ton
Total \$/unit	9.22	\$ -	\$ -	\$ -	\$ 34.34
Gas Commodity	\$ 3.87				

	Projected	08/09 Actual	09/10 Actual	10/11 Actual	11/12 Actual	Average
Projected Mlbs	mmbtu's/mlb sold					
November	13,521	3.28	3.51	3.53	2.87	3.38
December	21,496	2.87	2.44	2.86	2.63	2.80
January	28,460	2.40	2.51	2.89	2.88	2.78
February	24,012	2.68	2.13	2.37	2.37	2.38
March	16,387	3.37	3.24	3.65	3.28	3.46
April	10,987	3.50	4.05	4.15	4.22	4.09
May	3,524	7.32	5.94	7.73	5.46	6.72
June	1,360	14.82	11.77	10.75	11.14	12.01
July	963	19.73	21.78	16.87	14.63	17.82
August	1,168	16.88	21.63	20.64	13.25	16.90
September	1,821	10.82	12.86	17.74	12.76	13.64
October	9,607	3.67	3.33	3.60	3.82	3.69
	133,304					

Month-Year	Days/Month	\$ Nat. Gas	Meter Chg	LDC	Commodity	Basis	Total
Nov-13	30	\$ 121,061	527.08	2.23	3.81	3.36	9.40
Dec-13	31	\$ 115,061	544.65	2.23	3.81	3.36	9.40
Jan-14	31	\$ 142,421	544.65	2.23	3.81	3.36	9.40
Feb-14	28	\$ 118,487	491.94	2.23	3.81	3.36	9.40
Mar-14	31	\$ 121,078	544.65	2.23	3.81	3.36	9.40
Apr-14	30	\$ 96,663	527.08	2.23	3.81	3.36	9.40
May-14	31	\$ 43,263	544.65	1.05	3.81	3.36	8.22
Jun-14	30	\$ 24,351	527.08	1.05	3.81	3.36	8.22
Jul-14	31	\$ 16,975	544.65	1.05	3.81	3.36	8.22
Aug-14	31	\$ 14,510	544.65	1.05	3.81	3.36	8.22
Sep-14	30	\$ 12,850	527.08	1.05	3.81	3.36	8.22
Oct-14	31	\$ 53,121	544.65	1.05	3.81	3.36	8.22
		\$ 879,839					

Liberty Utilities/EnergyNorth Tariff - Delivery Rate Components as of 07/03/2012		
G-43 Rate Class	Summer	Winter
Customer charge per Meter	\$17.5693	\$17.5693 per Day
G-43 Delivery Charge	\$0.8580	\$1.8750 Per Dth
Local Distribution Adjustment Charge	\$0.1870	\$0.3570 Per Dth
Firm Transportation COG Charge	na	na Per Dth

Concord Steam Corporation
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	Actual Sales Mlbs 2012/13	Steam sold non heating	Steam sold heating	Change in customers	Actual Deg Days 2012/13	Deg Days 30 yr ave	Adjusted Base rate Sales 2013/14	
Nov-12	14,936	1,200	13,736	-	883	792	13,521	Nov-13
Dec-12	19,440	1,200	18,240	-	1056	1175	21,496	Dec-13
Jan-13	27,507	1,200	26,307	-	1298	1345	28,460	Jan-14
Feb-13	22,908	1,200	21,708	-	1102	1158	24,012	Feb-14
Mar-13	16,261	1,200	15,061	-	954	962	16,387	Mar-14
Apr-13	10,953	1,200	9,753	-	585	587	10,987	Apr-14
May-13	3,357	1,200	2,157	-	271	292	3,524	May-14
Jun-13	1,360	1,360	-	-	72	83	1,360	Jun-14
Jul-13	963	963	-	-	2	15	963	Jul-14
Aug-13	1,168	1,168	-	-	4	30	1,168	Aug-14
Sep-12	1,821	1,821	-	-	214	179	1,821	Sep-14
Oct-12	7,942	1,200	6,742	-	405	505	9,607	Oct-14
TOTAL	128,617			-	6,846	7,123	133,304	

Fewer degree days than last year 96.1%

Concord Steam Corporation
Cost Of Energy (COE)

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Summary of 12-13 Energy expenses/Revenue

	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	(projected) Aug-13	(projected) Sep-13	(projected) Oct-13	Total
Actual Mlbs. Sold	14,936	19,440	27,507	22,908	16,261	10,953	3,357	1,360	963	1,168	1,329	7,503	127,686
Actual Rate Per Mlb.	\$ 21.08	\$ 21.08	\$ 21.08	\$ 21.08	\$ 21.08	\$ 21.08	\$ 21.08	\$ 21.08	\$ 21.08	\$ 21.08	\$ 21.08	\$ 21.08	
Revenue:	\$ 314,599	\$ 409,748	\$ 580,512	\$ 482,910	\$ 342,784	\$ 230,895	\$ 70,765	\$ 28,661	\$ 20,291	\$ 24,621	\$ 28,019	\$ 158,156	\$ 2,691,962
Cost of Energy:	\$ 287,082	\$ 287,275	\$ 378,703	\$ 318,835	\$ 313,901	\$ 221,370	\$ 153,275	\$ 110,645	\$ 160,489	\$ 101,346	\$ 86,474	\$ 149,129	\$ 2,568,525

Over/(Under) Collection:

Beginning Balance	\$ (200,820)	\$ (173,303)	\$ (50,830)	\$ 150,979	\$ 315,054	\$ 343,937	\$ 353,462	\$ 270,952	\$ 188,968	\$ 48,770	\$ (27,955)	\$ (86,410)	
Current Month	\$ 27,517	\$ 122,473	\$ 201,809	\$ 164,075	\$ 28,883	\$ 9,526	\$ (82,510)	\$ (81,984)	\$ (140,198)	\$ (76,725)	\$ (58,455)	\$ 9,027	
Ending Balance	\$ (173,303)	\$ (50,830)	\$ 150,979	\$ 315,054	\$ 343,937	\$ 353,462	\$ 270,952	\$ 188,968	\$ 48,770	\$ (27,955)	\$ (86,410)	\$ (77,383)	

Purchased fuel costs: \$ 2,568,525

Over/(Under) Collection 09/10: \$ (200,820) See Sched 7 - COE reconciliation for previous year

Revenue requirement: \$ 2,769,345

Adjusted Revenue stream: \$ 2,691,622

Audit Correction 10/1/13 \$ (2,388)

Woodyard rental revenue \$ 13,200

Projected 2011-12

Over/(under) Collection: \$ (61,795)

	Projected Mlbs.	Rate per Mlb.	Projected Revenue \$
Nov-12	14,729	\$ 21.08	\$ 310,497
Dec-12	20,909	\$ 21.08	\$ 440,766
Jan-13	25,078	\$ 21.08	\$ 528,653
Feb-13	22,196	\$ 21.08	\$ 467,896
Mar-13	17,025	\$ 21.08	\$ 358,895
Apr-13	10,562	\$ 21.08	\$ 222,649
May-13	5,264	\$ 21.08	\$ 110,955
Jun-13	1,271	\$ 21.08	\$ 26,793
Jul-13	972	\$ 21.08	\$ 20,490
Aug-13	1,200	\$ 21.08	\$ 25,291
Sep-13	1,329	\$ 21.08	\$ 28,019
Oct-13	7,503	\$ 21.08	\$ 158,156
Total	128,039	\$ 21.08	\$ 2,699,059

	Actual/Projected Mlbs.	Rate per Mlb.	Revenue \$
Nov-12	14,936	\$ 21.08	\$ 314,857
Dec-12	19,440	\$ 21.08	\$ 409,803
Jan-13	27,507	\$ 21.08	\$ 579,850
Feb-13	22,908	\$ 21.08	\$ 482,910
Mar-13	16,261	\$ 21.08	\$ 342,784
Apr-13	10,953	\$ 21.08	\$ 230,895
May-13	3,357	\$ 21.08	\$ 70,765
Jun-13	1,360	\$ 21.08	\$ 28,661
Jul-13	963	\$ 21.08	\$ 20,300
Aug-13	1,168	\$ 21.08	\$ 24,621
Sep-13	1,329	\$ 21.08	\$ 28,019
Oct-13	7,503	\$ 21.08	\$ 158,156
Total	127,686	\$ 21.08	\$ 2,691,622

Concord Steam Company
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2012-13
Revenue Summary

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	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13
Cost of Energy	\$ 287,082	\$ 287,275	\$ 378,703	\$ 318,835	\$ 313,901	\$ 221,370	\$ 153,275	\$ 110,645	\$ 87,322	\$ -	\$ -	\$ -

Actual MMBtu's and Cost:

		Actual MMBtu's				Actual Costs				Projected/Actual Costs			Production costs		Total
	Nat. Gas	bbls	Waste + #6	Wood	Tons	Total	Nat. Gas	Waste + #6	Wood	Total	Nat. Gas	Waste + #6	Wood		
Nov-12	12,364	24	147	39,653	4665	52,164	\$ 105,273	\$ 2,213	\$ 161,665	\$ 269,151	\$ 105,273	\$ 2,213	\$ 161,665	\$ 17,931	\$ 287,082
Dec-12	10,115	135	828	46,138	5428	57,081	\$ 78,433	\$ 12,451	\$ 167,153	\$ 258,037	\$ 78,433	\$ 12,451	\$ 167,153	\$ 29,238	\$ 287,275
Jan-13	14,305	128	785	52,998	6235	68,087	\$ 133,666	\$ 13,035	\$ 196,853	\$ 343,554	\$ 133,666	\$ 13,035	\$ 196,853	\$ 35,148	\$ 378,703
Feb-13	10,554	118	723	51,918	6108	63,196	\$ 78,517	\$ 12,041	\$ 192,430	\$ 282,988	\$ 78,517	\$ 12,041	\$ 192,430	\$ 35,847	\$ 318,835
Mar-13	12,475	173	1,060	44,387	5222	57,923	\$ 98,672	\$ 18,381	\$ 159,506	\$ 276,559	\$ 98,672	\$ 18,381	\$ 159,506	\$ 37,342	\$ 313,901
Apr-13	10,055	18	110	32,853	3865	43,018	\$ 76,739	\$ 1,908	\$ 115,679	\$ 194,326	\$ 76,739	\$ 1,908	\$ 115,679	\$ 27,044	\$ 221,370
May-13	4,858	55	337	19,848	2335	25,042	\$ 32,733	\$ 5,831	\$ 92,588	\$ 131,152	\$ 32,733	\$ 5,831	\$ 92,588	\$ 22,123	\$ 153,275
Jun-13	2,901	-	-	17,247	2029	20,148	\$ 18,853	\$ -	\$ 79,229	\$ 98,082	\$ 18,853	\$ -	\$ 79,229	\$ 12,562	\$ 110,645
Jul-13	1,878	27	166	20,872	2456	22,915	\$ 12,785	\$ 2,863	\$ 71,674	\$ 87,322	\$ 12,785	\$ 2,863	\$ 71,674	\$ 73,168	\$ 160,489
Aug-13			-	-		-				\$ -	\$ 8,117	\$ 1,587	\$ 81,642	\$ 10,000	\$ 101,346
Sep-13		-				-				\$ -	\$ 9,821	\$ 3,175	\$ 61,478	\$ 12,000	\$ 86,474
Oct-13		-				-				\$ -	\$ 44,613	\$ 9,524	\$ 80,992	\$ 14,000	\$ 149,129
Total	79,505	678	4,156	325,912	38,343	409,573	\$ 635,671	\$ 68,723	\$ 1,236,778	\$ 1,941,172	\$ 698,222	\$ 83,009	\$ 1,460,890	\$ 326,404	\$ 2,568,525
			BTU factor	BTU factor											
			6.13	8.5			\$/mmbtu	\$ 8.00	\$ 16.54	\$ 3.79	\$ 4.74				
							\$/ton								
							\$/bbl	\$ 101.36							

Projected MMBtu's and Cost:

	Projected MMBtu's						Projected Costs					Other Production costs	Total
	Nat. Gas	Waste	#6 Resid	Waste+ #6	Wood	Total	Nat. Gas	Waste Oil	#6 Resid	Waste+ #6	Wood		
Nov-12	9,140	0	924	924	39,490	49,555	\$ 72,718	\$ -	\$ 14,674	\$ 14,674	\$ 161,122	18,000	\$ 266,514
Dec-12	10,581	0	1,382	1,382	46,373	58,336	\$ 84,118	\$ -	\$ 21,935	\$ 21,935	\$ 189,202	22,000	\$ 317,255
Jan-13	12,019	0	1,864	1,864	56,158	70,041	\$ 95,476	\$ -	\$ 29,580	\$ 29,580	\$ 229,127	34,000	\$ 388,183
Feb-13	11,099	0	1,103	1,103	40,808	53,011	\$ 88,157	\$ -	\$ 17,514	\$ 17,514	\$ 166,499	35,000	\$ 307,170
Mar-13	9,388	0	1,220	1,220	48,011	58,618	\$ 74,695	\$ -	\$ 19,363	\$ 19,363	\$ 195,884	32,000	\$ 321,942
Apr-13	7,442	0	325	325	35,282	43,049	\$ 59,306	\$ -	\$ 5,157	\$ 5,157	\$ 143,951	26,000	\$ 234,414
May-13	5,246	0	18	18	28,301	33,565	\$ 36,666	\$ -	\$ 292	\$ 292	\$ 115,467	60,000	\$ 212,425
Jun-13	1,468	0	153	153	13,649	15,270	\$ 10,634	\$ -	\$ 2,433	\$ 2,433	\$ 55,687	15,000	\$ 83,754
Jul-13	1,205	0	104	104	16,011	17,320	\$ 8,840	\$ -	\$ 1,654	\$ 1,654	\$ 65,326	8,000	\$ 83,820
Aug-13	1,100	0	100	100	20,010	21,210	\$ 8,117	\$ -	\$ 1,587	\$ 1,587	\$ 81,642	10,000	\$ 101,346
Sep-13	1,350	0	200	200	15,068	16,618	\$ 9,821	\$ -	\$ 3,175	\$ 3,175	\$ 61,478	12,000	\$ 86,474
Oct-13	6,400	0	600	600	19,851	26,851	\$ 44,613	\$ -	\$ 9,524	\$ 9,524	\$ 80,992	14,000	\$ 149,129
Total	76,438	-	7,994	7,994	379,012	463,444	\$ 593,160	\$ -	\$ 126,887	\$ 126,887	\$ 1,546,378	286,000	\$ 2,552,425
		-	1,304	1,304	44,590								
				bbls	tons								

Projected mmbtu costs					
\$/MMBtu	Gas	Waste	#6	#6/waste	Wood
	\$ 7.76	#DIV/0!	\$ 15.87	\$ 15.87	\$ 4.08
	Decatherm	Bbl	Bbl		Ton
\$/Unit	\$ 7.76	\$ 71.11	\$ 101.59	\$ 97.30	\$ 34.68

Concord Steam Corporation
Cost Of Energy (COE)

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Schedule-6
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Customer Size	Annual usage M/lbs	Energy Charge at new rate 20.83	Energy Charge at 11/12 average 21.08	Meter Charge	Usage Rate	Proposed with new COE	Last year	% change over last year
Small	295	\$ 6,146	\$ 6,219	\$ 120	\$ 6,343	\$ 12,609	\$ 12,681	-0.57%
Medium	1201	\$ 25,023	\$ 25,317	\$ 400	\$ 25,461	\$ 50,884	\$ 51,178	-0.58%
Large	4797	\$ 99,944	\$ 101,121	\$ 944	\$ 97,379	\$ 198,267	\$ 199,444	-0.59%

The Small user will always use less than 500 Mlbs/month and their usage rate will always be highest tier.
The Medium user may in some months use more than 500 Mlbs, but most of their usage will also be at the highest tier.
The Large user almost always uses above 500 Mlbs/month but still never uses more than 2,000 Mlbs/month.
They end up with a blended rate due to buying steam from the two tiers

The estimate of usage rate for each user is based on a sample customers actual annual usage divided by the total usage which establishes the average usage rate that that customer paid.

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Schedule -7
rev 10/1/13

[illegible]

Concord Steam Corporation
Cost Of Energy (COE)

DG 13 - 255
Schedule-8
rev 2 9/26

Estimated cost of Wood Yard Operations

Tons of wood per year	44,313					
Delivered cost of material	\$ 28.00	\$ 1,240,766				
		COE 13	Actual 8/12-7/13	Actual 8/11-7/12	10	
Yard Lease	\$	141,792	\$ 141,792	\$ 141,792	\$ 141,792	
Diesel Fuel Yard/trucking	\$	18,000	\$ 18,091	\$ 17,343	\$ 14,624	
Electricity	\$	3,500	\$ 3,267	\$ 2,937	\$ 3,522	
Mechanical repairs	\$	500	\$ 1,193	\$ 903	\$ 481	
Small tools	\$	500	\$ 137	\$ 540	\$ 598	
Loader rental	\$	35,690	\$ 51,597	\$ 51,597	\$ 51,597	
Tractor rental	\$	15,228	15,233	2,539		
Truck/Loader/scale maintenance	\$	10,000	\$ 13,392	\$ 9,498	\$ 8,656	
Contract Grinding/Hauling	\$	-	\$ -	\$ -	\$ 29,150	
Misc Prepaid Yard expenses	\$	-	\$ -	\$ -	\$ -	
Propane heat	\$	5,000	\$ 4,626	\$ 4,854	\$ 4,564	
Veh Registration	\$	2,200	\$ 687	\$ 2,073	\$ 1,580	
Fees	\$	500	\$ 364	\$ 364	\$ -	
Cleaning supplies	\$	-			\$ -	
Software consultant	\$	-			\$ -	
Highway use tax	\$	750	\$ 1,966	\$ 725	\$ -	
Property tax	\$	25,500	\$ 24,746	\$ 25,245	\$ 23,047	
Wood Broker	\$	35,000	\$ 35,000	\$ 35,000	\$ 35,000	
Subtotal	\$	294,160	\$ 312,091	\$ 295,409	\$ 314,611	

Rental revenue Capital Paving \$ (13,200)

Total net cost \$ 280,960

Cost of Yard operations per ton \$ 6.34

Delivered cost of material \$ 28.00

Total Cost of wood fuel per ton \$ 34.34

Concord Steam Corporation
Cost Of Energy (COE)

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Schedule-9
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Other production costs included in COE

	Ash Disposal	Water/Sewer	Treatment Chemicals	State Emission fee	Total 2012/13 Actual	Projected 2013/14
Nov-12	1,881	14,219	1,830		17,931	18,000
Dec-12	2,761	23,665	2,812		29,238	28,000
Jan-13	4,229	25,963	4,956		35,148	35,000
Feb-13	3,775	28,868	3,204		35,847	36,000
Mar-13	3,775	30,362	3,204		37,342	37,000
Apr-13	1,477	22,969	2,598		27,044	27,000
May-13	2,626	16,986	2,511		22,123	22,000
Jun-13	-	10,297	2,265		12,562	12,000
Jul-13	1,476	10,364	1,512	59,816	73,168	68,000
Aug-13	770	6,846	1,490		9,105	10,000
Sep-12	1,427	8,117	1,830		11,374	11,000
Oct-12	1,427	7,382	1,830		10,639	10,000
Totals	25,625	206,039	30,043	59,816	321,522	314,000