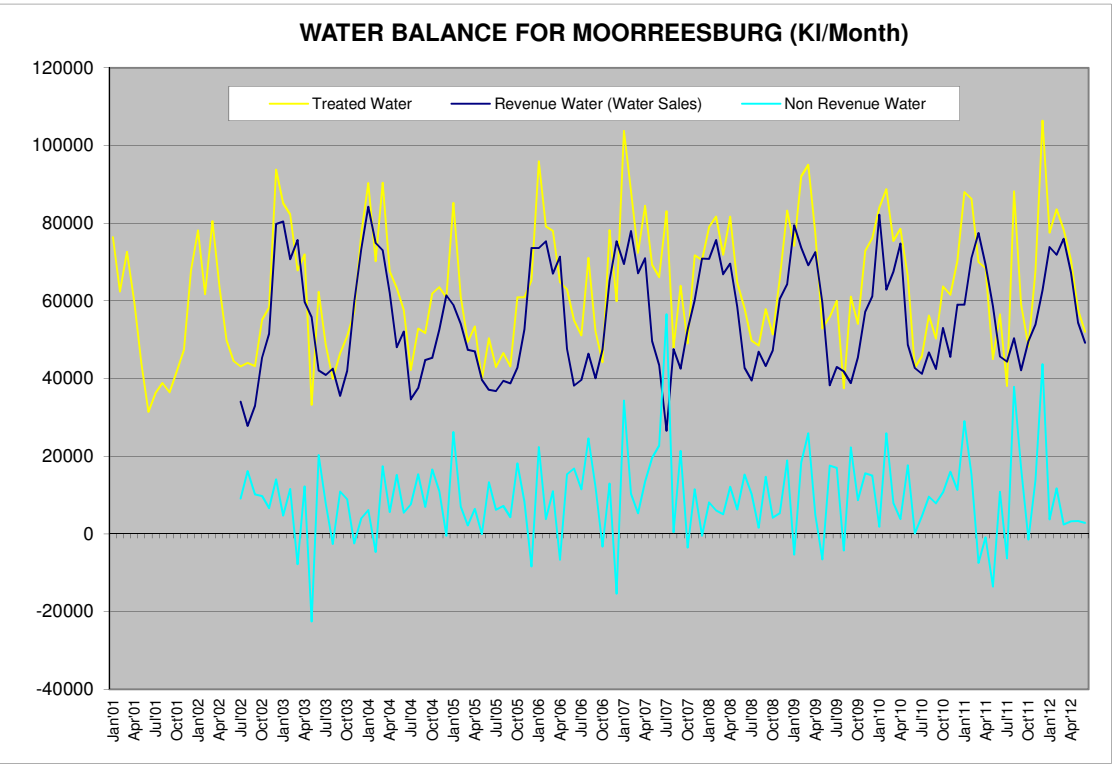
SWARTLAND MUNICIPALITY

Moorreesburg

Month	Year	BULK WATER SUPPLY				TREATED WATER SUPPLY				TOTALS (ONLY NETWORK LOSSES)			
		Raw Water Supply	Treated Water	Monthly Losses [m³]	Monthly Losses [%]	Treated Water	Consump-tion	Monthly Losses [m³]	Monthly Losses [%]	Monthly Losses [m³]	Monthly Losses [%]	Annual Losses [m³]	Annual Losses [%]
Jan'01	00/01					76360							
Feb'01						62430							
Mrt'01						72570							
Apr'01						59610							
May'01						43860							
Jun'01						31430							
Jul'01	01/02					36190							
Aug'01						38790							
Sep'01						36440							
Oct'01						41970							
Nov'01						47390							
Dec'01						67860							
Jan'02						78150							
Feb'02						61740							
Mrt'02						80490							
Apr'02						63630							
May'02						49880							
Jun'02						44490							
Jul'02	02/03					43120	34012	9108	21.1	9108	21.1	84196	11.4%
Aug'02						43980	27804	16176	36.8	16176	36.8		
Sep'02						43180	32993	10187	23.6	10187	23.6		
Oct'02						55080	45337	9743	17.7	9743	17.7		
Nov'02						58180	51542	6638	11.4	6638	11.4		
Dec'02						93800	79804	13997	14.9	13997	14.9		
Jan'03						85125	80412	4713	5.5	4713	5.5		
Feb'03						82234	70695	11540	14.0	11540	14.0		
Mrt'03						67800	75633	-7833	-11.6	-7833	-11.6		
Apr'03						71970	59757	12214	17.0	12214	17.0		
May'03						33240	55816	-22576	-67.9	-22576	-67.9		
Jun'03						62340	42050	20291	32.5	20291	32.5		
Jul'03	03/04					48700	40883	7817	16.1	7817	16.1	71533	9.4%
Aug'03						39935	42553	-2618	-6.6	-2618	-6.6		
Sep'03						46450	35562	10888	23.4	10888	23.4		
Oct'03						50840	41949	8891	17.5	8891	17.5		
Nov'03						57100	59569	-2469	-4.3	-2469	-4.3		
Dec'03						77240	73256	3984	5.2	3984	5.2		
Jan'04						90335	84251	6084	6.7	6084	6.7		
Feb'04						70180	74876	-4696	-6.7	-4696	-6.7		
Mrt'04						90400	73034	17366	19.2	17366	19.2		
Apr'04						67600	61997	5603	8.3	5603	8.3		
May'04						63300	48092	15208	24.0	15208	24.0		
Jun'04						57590	52115	5475	9.5	5475	9.5		
Jul'04	04/05					42170	34597	7573	18.0	7573	18.0	111956	16.7%
Aug'04						52830	37509	15322	29.0	15322	29.0		
Sep'04						51670	44747	6923	13.4	6923	13.4		
Oct'04						61910	45359	16552	26.7	16552	26.7		
Nov'04						63566	52565	11001	17.3	11001	17.3		
Dec'04						60899	61400	-501	-0.8	-501	-0.8		
Jan'05						85180	58958	26222	30.8	26222	30.8		
Feb'05						61080	54065	7016	11.5	7016	11.5		
Mrt'05						49490	47363	2127	4.3	2127	4.3		
Apr'05						53420	46954	6466	12.1	6466	12.1		
May'05						39640	39697	-57	-0.1	-57	-0.1		
Jun'05						50400	37088	13313	26.4	13313	26.4		
Jul'05	05/06					42940	36772	6168	14.4	6168	14.4	98363	13.0%
Aug'05						46580	39382	7198	15.5	7198	15.5		
Sep'05						43070	38748	4322	10.0	4322	10.0		
Oct'05						60900	42770	18130	29.8	18130	29.8		
Nov'05						60930	52655	8276	13.6	8276	13.6		
Dec'05						65260	73608	-8348	-12.8	-8348	-12.8		
Jan'06						95910	73556	22354	23.3	22354	23.3		
Feb'06						79100	75287	3813	4.8	3813	4.8		
Mrt'06						77930	66981	10949	14.1	10949	14.1		
Apr'06						64740	71411	-6671	-10.3	-6671	-10.3		
May'06						62970	47621	15349	24.4	15349	24.4		
Jun'06						55010	38187	16823	30.6	16823	30.6		
Jul'06	06/07					51090	39624	11467	22.4	11467	22.4	148029	17.6%
Aug'06						71030	46421	24609	34.6	24609	34.6		
Sep'06						52170	40069	12101	23.2	12101	23.2		
Oct'06						44150	47446	-3296	-7.5	-3296	-7.5		
Nov'06						78180	65186	12994	16.6	12994	16.6		
Dec'06						59930	75315	-15385	-25.7	-15385	-25.7		
Jan'07						103730	69475	34255	33.0	34255	33.0		
Feb'07						88230	77941	10290	11.7	10290	11.7		
Mrt'07						72340	67047	5293	7.3	5293	7.3		
Apr'07						84460	70975	13486	16.0	13486	16.0		
May'07						69190	49614	19576	28.3	19576	28.3		
Jun'07						66080	43438	22642	34.3	22642	34.3		
Jul'07	07/08					83080	26574	56506	68.0	56506	68.0	138609	16.8%
Aug'07						48000	47556	444	0.9	444	0.9		
Sep'07						63880	42536	21344	33.4	21344	33.4		
Oct'07						49010	52558	-3548	-7.2	-3548	-7.2		
Nov'07						71680	60198	11482	16.0	11482	16.0		
Dec'07						70440	70884	-444	-0.6	-444	-0.6		
Jan'08						78960	70829	8131	10.3	8131	10.3		
Feb'08						81670	75657	6013	7.4	6013	7.4		
Mrt'08						71860	66856	5004	7.0	5004	7.0		
Apr'08						81640	69520	12120	14.8	12120	14.8		
May'08						64710	58454	6256	9.7	6256	9.7		
Jun'08						58010	42710	15300	26.4	15300	26.4		
Jul'08	08/09					49730	39519	10211	20.5	10211	20.5	109572	13.6%
Aug'08						48480	46867	1613	3.3	1613	3.3		
Sep'08						57850	43199	14651	25.3	14651	25.3		
Oct'08						51370	47249	4121	8.0	4121	8.0		
Nov'08						65780	60486	5294	8.0	5294	8.0		
Dec'08						83200	64325	18875	22.7	18875	22.7		
Jan'09						74140	79470	-5330	-7.2	-5330	-7.2		
Feb'09						92060	73700	18360	19.9	18360	19.9		
Mrt'09						95020	69127	25893	27.3	25893	27.3		
Apr'09						77390	72489	4901	6.3	4901	6.3		
May'09						52870	59466	-6596	-12.5	-6596	-12.5		
Jun'09						55790	38211	17579	31.5	17579	31.5		
Jul'09	09/10					59990	42958	17032	28.4	17032	28.4	131529	16.5%
Aug'09						37510	41794	-4284	-11.4	-4284	-11.4		
Sep'09						61090	38789	22301	36.5	22301	36.5		
Oct'09						54070	45406	8664	16.0	8664	16.0		
Nov'09						72830	57218	15612	21.4	15612	21.4		
Dec'09						76140	61155	14985	19.7	14985	19.7		
Jan'10						83980	82132	1848	2.2	1848	2.2		
Feb'10						88740	62863	25877	29.2	25877	29.2		
Mrt'10						75390	67459	7931	10.5	7931	10.5		
Apr'10						78540	74763	3777	4.8	3777	4.8		
May'10						66360	48698	17662	26.6	17662	26.6		
Jun'10						42810	42686	124	0.3	124	0.3		
Jul'10	10/11					45750	41183	4567	10.0	4567	10.0	93032	12.2%
Aug'10						56250	46700	9550	17.0	9550	17.0		
Sep'10						50270	42460	7810	15.5	7810	15.5		
Oct'10						63670	52991	10679	16.8	10679	16.8		
Nov'10						61560	45557	16003	26.0	16003	26.0		
Dec'10						70300	59016	11284	16.1	11284	16.1		
Jan'11						88000	59016	28984	32.9	28984	32.9		
Feb'11						86320	71050	15270	17.7	15270	17.7		
Mrt'11						69977	77444	-7467	-10.7	-7467	-10.7		
Apr'11						68401	69329	-928	-1.4	-928	-1.4		
May'11						45026	58567	-13541	-30.1	-13541	-30.1		
Jun'11						56500	45679	10821	19.2	10821	19.2		
Jul'11	11/12					38073	44379	-6306	-16.6	-6306	-16.6	131849	15.9%
Aug'11						88213	50400	37813	42.9	37813	42.9		
Sep'11						59100	42108	16992	28.8	16992	28.8		
Oct'11						48190	49620	-1430	-3.0	-1430	-3.0		
Nov'11						67750	53885	13865	20.5	13865	20.5		
Dec'11						106404	62756	43648	41.0	43648	41.0		
Jan'12						77584	73860	3724	4.8	3724	4.8		
Feb'12						83574	71861	11713	14.0	11713	14.0		
Mrt'12						78359	75959	2400	3.1	2400	3.1		
Apr'12						70485	67239	3246	4.6	3246	4.6		
May'12						57718	54382	3336	5.8	3336	5.8		
Jun'12						52042	49194	2848	5.5	2848	5.5		

ANNUAL TOTALS				
Year	Supply	Consumption	Losses m³	Losses %
2001/2002	647020			
2002/2003	740049	655853	84196	11.4%
2003/2004	759670	688137	71533	9.4%
2004/2005	672255	560300	111956	16.7%
2005/2006	755340	656977	98363	13.0%
2006/2007	840580	692551	148029	17.6%
2007/2008	822940	684331	138609	16.8%
2008/2009	803680	694108	109572	13.6%
2009/2010	797450	665921	131529	16.5%
2010/2011	762024	668992	93032	12.2%
2011/2012	827492	695643	131849	15.9%


WATER BALANCE FOR MOORREESBURG (Kl/Month)
Treated Water
Revenue Water (Water Sales)
Non Revenue Water
120000
100000
80000
60000
40000
20000
0
-20000
-40000
Jan'01
Apr'01
Jul'01
Oct'01
Jan'02
Apr'02
Jul'02
Oct'02
Jan'03
Apr'03
Jul'03
Oct'03
Jan'04
Apr'04
Jul'04
Oct'04
Jan'05
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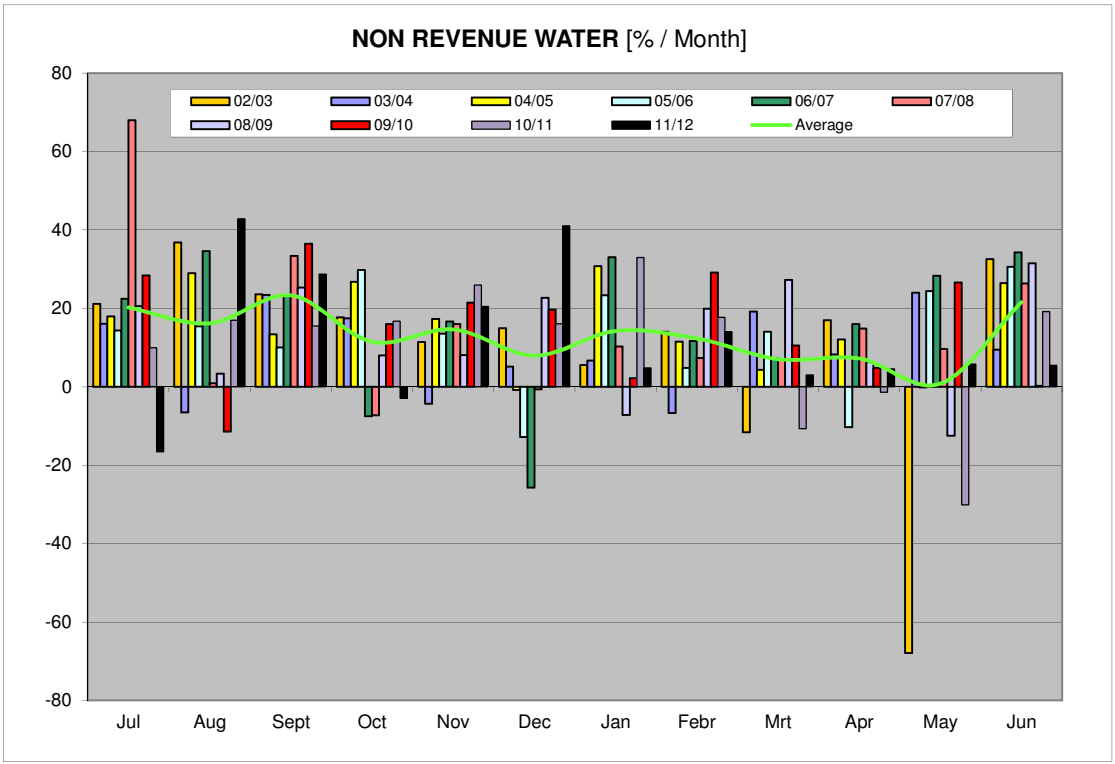
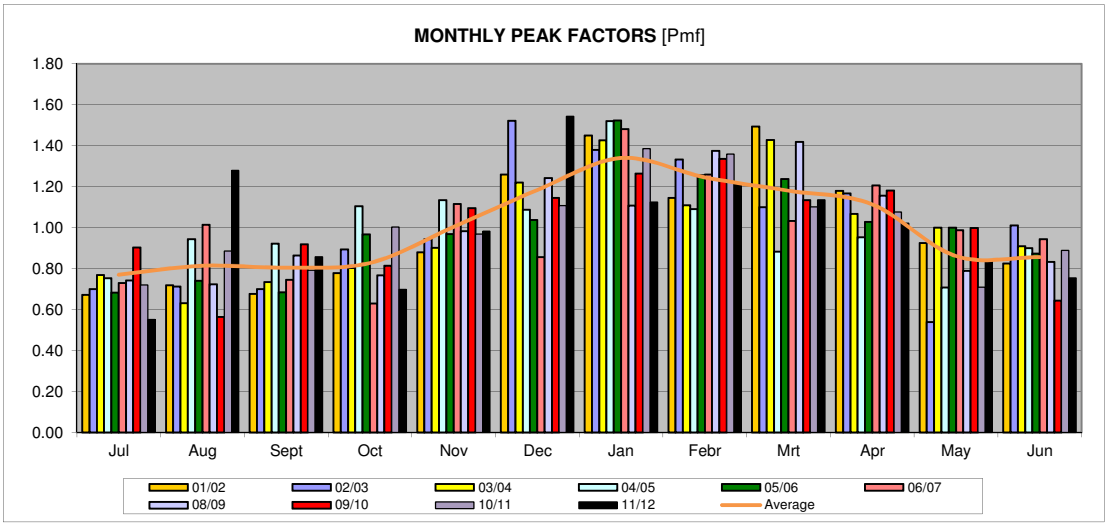
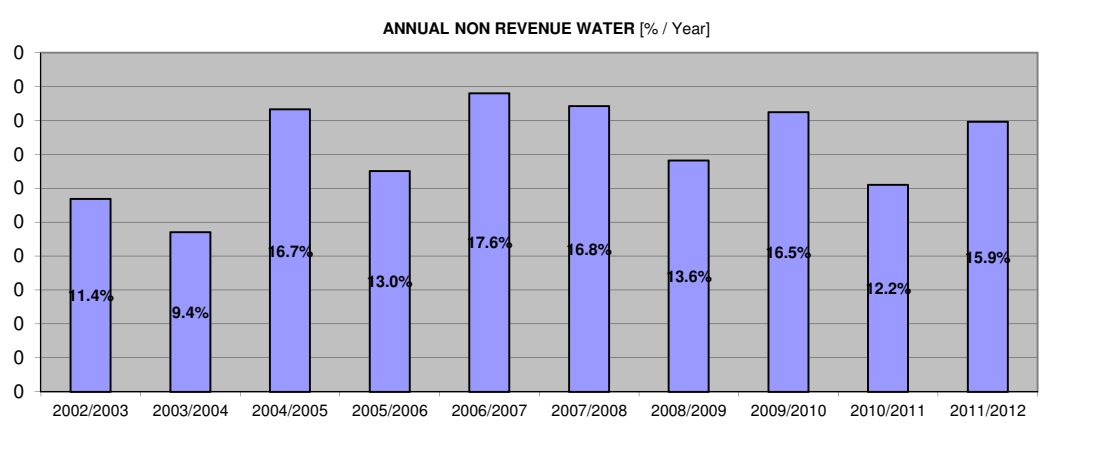
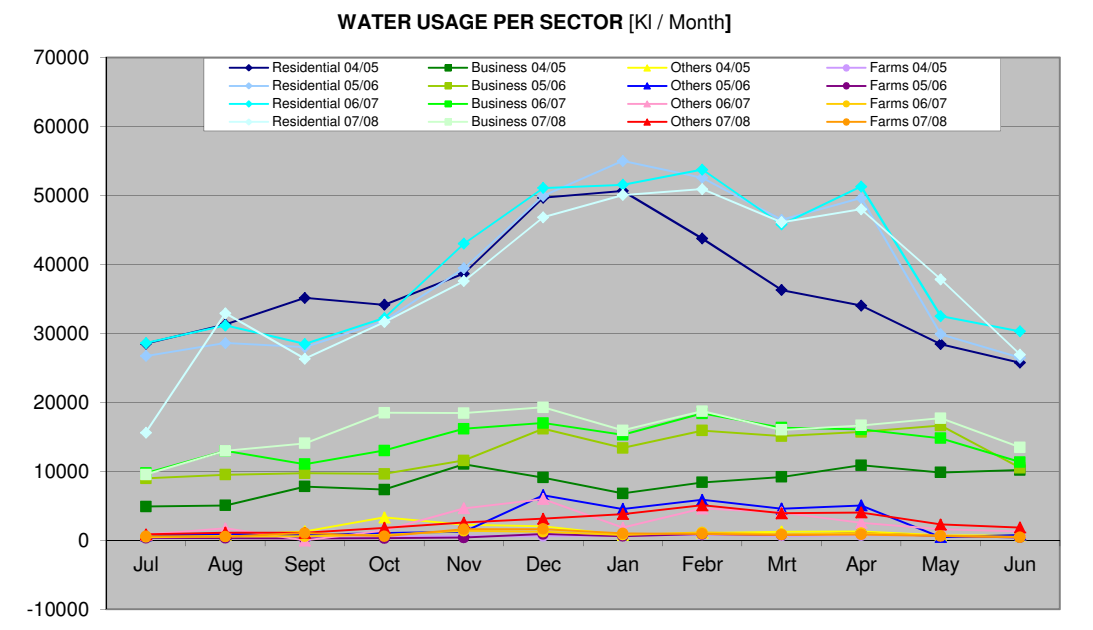
Apr'12


NON REVENUE WATER [% / Month]
02/03
03/04
04/05
05/06
06/07
07/08
08/09
09/10
10/11
11/12
Average
80
60
40
20
0
-20
-40
-60
-80
Jul
Aug
Sept
Oct
Nov
Dec
Jan
Febr
Mrt
Apr
May
Jun


MONTHLY PEAK FACTORS [Pmf]
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
Jul
Aug
Sept
Oct
Nov
Dec
Jan
Febr
Mrt
Apr
May
Jun
01/02
02/03
03/04
04/05
05/06
06/07
08/09
09/10
10/11
11/12
Average


ANNUAL NON REVENUE WATER [% / Year]
11.4%
9.4%
16.7%
13.0%
17.6%
16.8%
13.6%
16.5%
12.2%
15.9%
2002/2003
2003/2004
2004/2005
2005/2006
2006/2007
2007/2008
2008/2009
2009/2010
2010/2011
2011/2012


WATER USAGE PER SECTOR [Kl / Month]
Residential 04/05
Business 04/05
Others 04/05
Farms 04/05
Residential 05/06
Business 05/06
Others 05/06
Farms 05/06
Residential 06/07
Business 06/07
Others 06/07
Farms 06/07
Residential 07/08
Business 07/08
Others 07/08
Farms 07/08
70000
60000
50000
40000
30000
20000
10000
0
-10000
Jul
Aug
Sept
Oct
Nov
Dec
Jan
Febr
Mrt
Apr
May
Jun