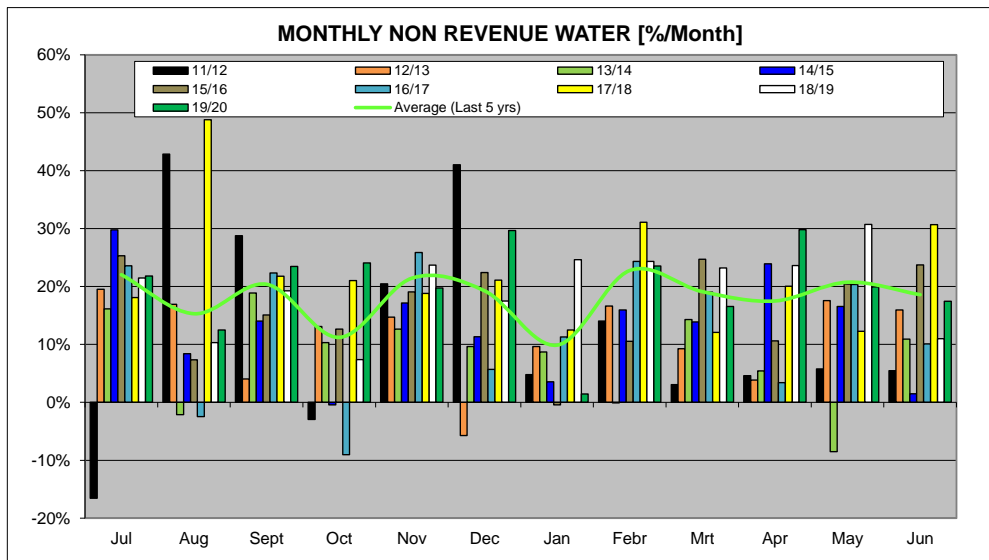
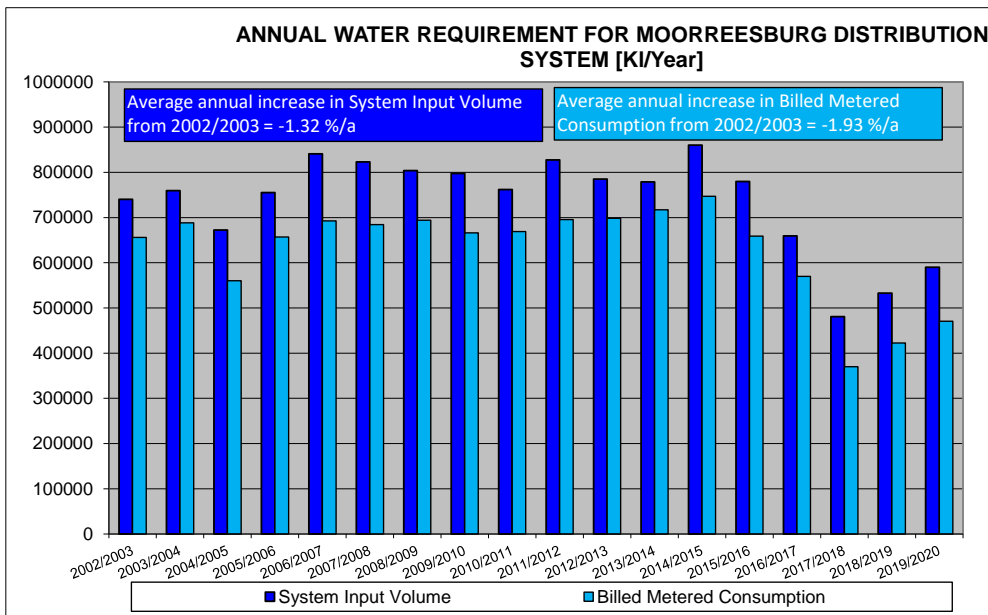
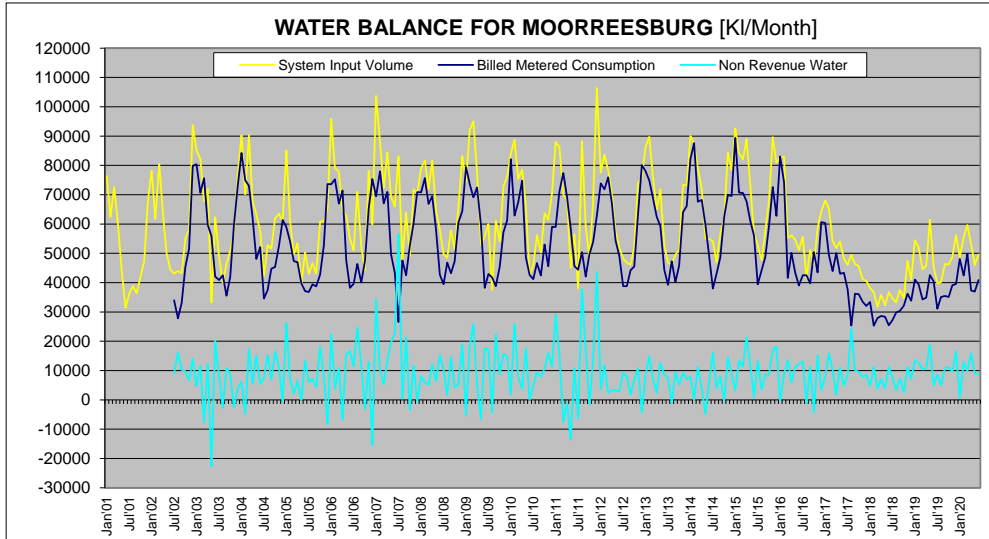


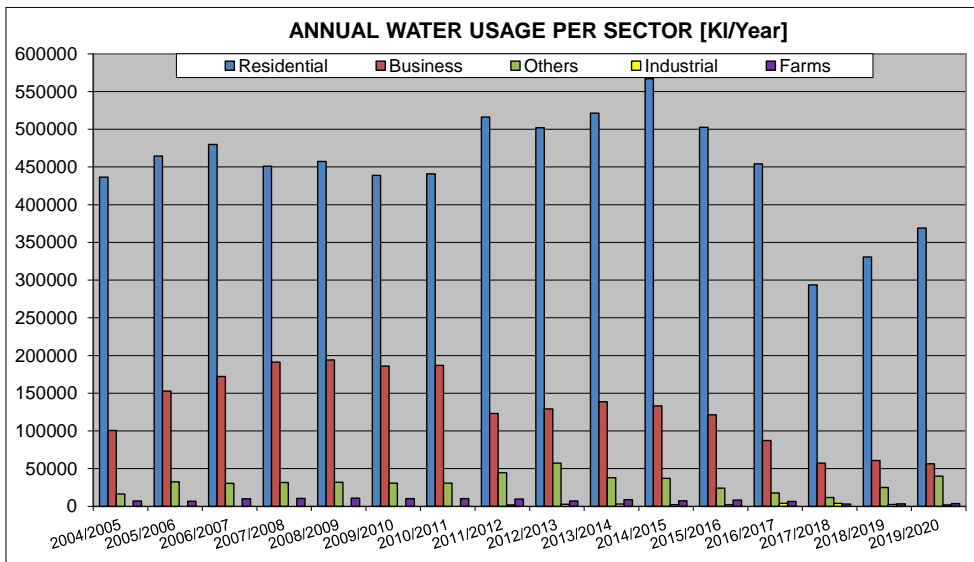
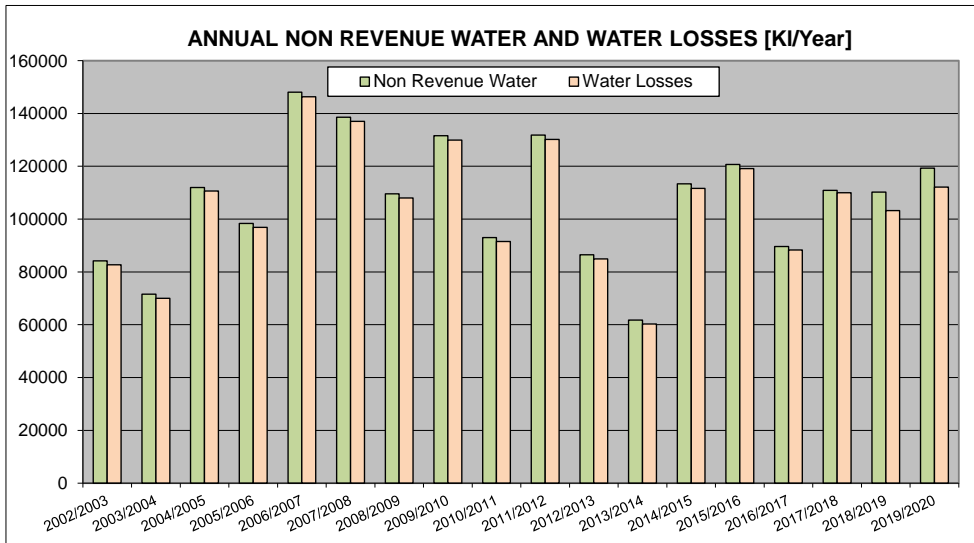
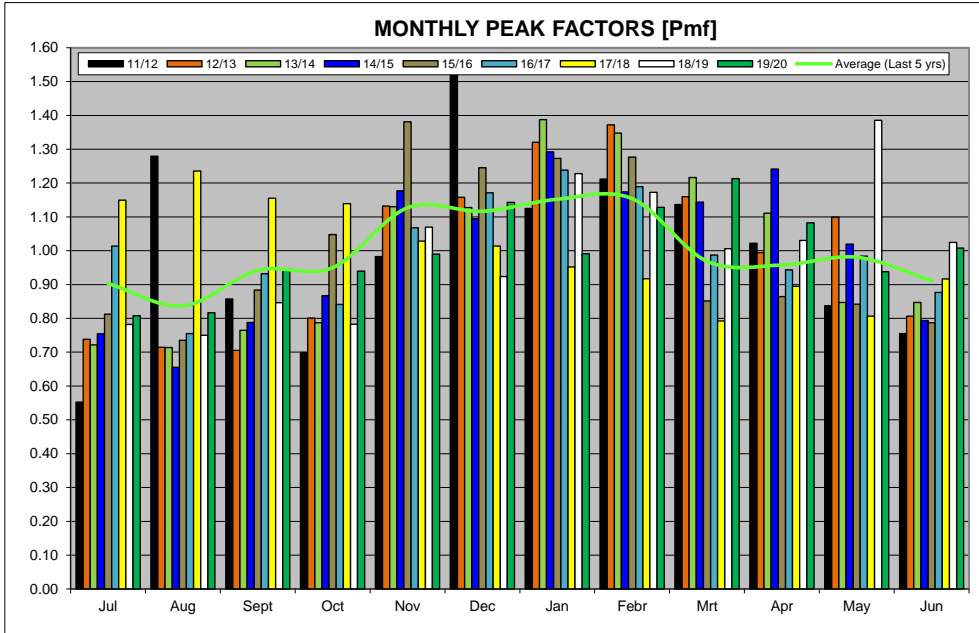
SWARTLAND MUNICIPALITY																					
Moorreesburg																					
Month	Year	TREATED WATER SUPPLY															Annual Water Losses	Annual Water Losses			
		System Input Volume		Revenue Water			Non Revenue Water (NRW)					Apparent Losses									
		Threated Water from WTW	Billed Metered Consumption	Billed Un-metered Consumption	Monthly NRW	Monthly NRW	Annual NRW	Annual NRW	Unbilled Metered Consumption	Unbilled Un-metered Consumption	Regal Connections			Inaccurate Meters		Administrative Errors			Leak, Reservoirs overflow, etc.	Monthly Water Losses	Monthly Water Losses
											Estimated Percentage	Estimated Percentage	Estimated Percentage	Estimated Percentage	Estimated Percentage						
[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	[m³]	%	%	%	%	%	[m³]	[m³]	[m³]	[m³]				
Jan01	0001	7020																			
Feb01	0001	6240																			
Mar01	0001	7260																			
Apr01	0001	5810																			
May01	0001	6360																			
Jun01	0001	3140																			
Jul01	0001	3610																			
Aug01	0001	3870																			
Sep01	0001	3640																			
Oct01	0001	4170																			
Nov01	0001	4780																			
Dec01	0001	3260																			
Jan02	0102	6170																			
Feb02	0102	6460																			
Mar02	0102	6360																			
Apr02	0102	5830																			
May02	0102	6460																			
Jun02	0102	4460																			
Jul02	0102	4460																			
Aug02	0102	4460																			
Sep02	0102	4460																			
Oct02	0102	4460																			
Nov02	0102	4460																			
Dec02	0102	4460																			
Jan03	0203	6460	5412	0	1048	10.1%															
Feb03	0203	6460	5784	0	1676	16.8%															
Mar03	0203	6460	5784	0	1676	16.8%															
Apr03	0203	6460	5784	0	1676	16.8%															
May03	0203	6460	5784	0	1676	16.8%															
Jun03	0203	6460	5784	0	1676	16.8%															
Jul03	0203	6460	5784	0	1676	16.8%															
Aug03	0203	6460	5784	0	1676	16.8%															
Sep03	0203	6460	5784	0	1676	16.8%															
Oct03	0203	6460	5784	0	1676	16.8%															
Nov03	0203	6460	5784	0	1676	16.8%															
Dec03	0203	6460	5784	0	1676	16.8%															
Jan04	0304	6460	5784	0	1676	16.8%															
Feb04	0304	6460	5784	0	1676	16.8%															
Mar04	0304	6460	5784	0	1676	16.8%															
Apr04	0304	6460	5784	0	1676	16.8%															
May04	0304	6460	5784	0	1676	16.8%															
Jun04	0304	6460	5784	0	1676	16.8%															
Jul04	0304	6460	5784	0	1676	16.8%															
Aug04	0304	6460	5784	0	1676	16.8%															
Sep04	0304	6460	5784	0	1676	16.8%															
Oct04	0304	6460	5784	0	1676	16.8%															
Nov04	0304	6460	5784	0	1676	16.8%															
Dec04	0304	6460	5784	0	1676	16.8%															
Jan05	0405	6460	5784	0	1676	16.8%															
Feb05	0405	6460	5784	0	1676	16.8%															
Mar05	0405	6460	5784	0	1676	16.8%															
Apr05	0405	6460	5784	0	1676	16.8%															
May05	0405	6460	5784	0	1676	16.8%															
Jun05	0405	6460	5784	0	1676	16.8%															
Jul05	0405	6460	5784	0	1676	16.8%															
Aug05	0405	6460	5784	0	1676	16.8%															
Sep05	0405	6460	5784	0	1676	16.8%															
Oct05	0405	6460	5784	0	1676	16.8%															
Nov05	0405	6460	5784	0	1676	16.8%															
Dec05	0405	6460	5784	0	1676	16.8%															
Jan06	0506	6460	5784	0	1676	16.8%															
Feb06	0506	6460	5784	0	1676	16.8%															
Mar06	0506	6460	5784	0	1676	16.8%															
Apr06	0506	6460	5784	0	1676	16.8%															
May06	0506	6460	5784	0	1676	16.8%															
Jun06	0506	6460	5784	0	1676	16.8%															
Jul06	0506	6460	5784	0	1676	16.8%															
Aug06	0506	6460	5784	0	1676	16.8%															
Sep06	0506	6460	5784	0	1676	16.8%															
Oct06	0506	6460	5784	0	1676	16.8%															
Nov06	0506	6460	5784	0	1676	16.8%															
Dec06	0506	6460	5784	0	1676	16.8%															
Jan07	0607	6460	5784	0	1676	16.8%															
Feb07	0607	6460	5784	0	1676	16.8%															
Mar07	0607	6460	5784	0	1676	16.8%															
Apr07	0607	6460	5784	0	1676	16.8%															
May07	0607	6460	5784	0	1676	16.8%															
Jun07	0607	6460	5784	0	1676	16.8%															
Jul07	0607	6460	5784	0	1676	16.8%															
Aug07	0607	6460	5784	0	1676	16.8%															
Sep07	0607	6460	5784	0	1676	16.8%															
Oct07	0607	6460	5784	0	1676	16.8%															
Nov07	0607	6460	5784	0	1676	16.8%															
Dec07	0607	6460	5784	0	1676	16.8%															
Jan08	0708	6460	5784	0	1676	16.8%															
Feb08	0708	6460	5784	0	1676	16.8%															
Mar08	0708	6460	5784	0	1676	16.8%															
Apr08	0708	6460	5784	0	1676	16.8%															
May08	0708	6460	5784	0	1676	16.8%															
Jun08	0708	6460	5784	0	1676	16.8%															
Jul08	0708	6460	5784	0	1676	16.8%															
Aug08	0708	6460	5784	0	1676	16.8%															

SWARTLAND MUNICIPALITY																			
Mooresburg																			
Month	Year	TREATED WATER SUPPLY																	
		System Input Volumes			Revenue Water			Non Revenue Water (NRW)											
		Thermal Water from WTW	Billed Metered Consumption	Billed Un-metered Consumption	Monthly NRW	Monthly NRW	Annual NRW	Annual NRW	Unbilled Metered Consumption	Unbilled Un-metered Consumption	Apparent Losses			Real Losses		Monthly Water Losses	Monthly Water Losses	Annual Water Losses	Annual Water Losses
											Regal Connections	Inaccurate Meters	Administrative Errors	Leak, Reservoir overflow, etc.	Monthly Water Losses				
[m³]	[m³]	[m³]	[m³]	[%]	[m³]	[%]	[m³]	[m³]	2%	10%	9%	8%	[m³]	[%]	[m³]	[%]			
[m³]	[m³]	[m³]	[m³]	[%]	[m³]	[%]	[m³]	[m³]	Estimated Percentages (Variable)	Estimated Percentages (Variable)	Estimated Percentages (Variable)	Estimated Percentages (Variable)	[m³]	[%]	[m³]	[%]			
Jul14	1415	54063	37968	0	10100	23.9%	0	319	300	1509	800	14013	10000	23.9%					
Aug14	1415	46980	43205	0	8945	8.4%	0	84	77	385	193	3186	8814	8.2%					
Oct14	1415	62134	62610	0	-276	-0.4%	0	144	-8	-8	-30	-344	-450	-0.8%					
Nov14	1415	44920	49920	0	14960	17.1%	0	129	106	429	210	1860	1620	16.9%					
Dec14	1415	7867	66500	0	68633	11.3%	0	157	174	872	438	1228	870	11.1%					
Jan15	1415	5953	6998	0	6405	9.3%	0	100	100	326	156	606	306	3.9%					
Feb15	1415	84180	70752	0	13428	15.9%	0	188	385	1324	855	10089	13540	15.7%			111625	13.0%	
Mar15	1415	58004	67711	0	11295	13.9%	0	154	255	1123	555	1055	1129	13.7%					
Apr15	1415	1188	5582	0	4394	5.8%	0	118	249	1116	1065	1700	2108	23.2%					
May15	1415	27804	35864	0	8060	10.5%	0	106	239	1126	588	3669	1188	16.4%					
Jun15	1415	62752	39450	0	13302	26.3%	0	106	385	1524	894	10867	13279	25.1%					
Jul15	1415	47246	44520	0	3044	3.4%	0	81	101	486	251	268	2616	3.2%					
Aug15	1415	51242	49720	0	8872	15.1%	0	115	171	859	425	1712	857	11.9%					
Oct15	1415	68524	59439	0	9085	10.6%	0	106	186	146	487	424	7990	9.4%					
Nov15	1415	88276	72620	0	15656	19.1%	0	129	339	1854	841	14669	16939	18.9%					
Dec15	1415	80914	67700	0	13214	25.4%	0	162	359	1797	899	14917	17972	25.2%					
Jan16	1415	52737	83374	0	3097	3.4%	0	166	11	-31	-22	-462	-532	-0.8%			119130	15.3%	
Feb16	1415	59268	74220	0	8952	10.5%	0	112	117	658	428	7107	8964	10.4%					
Mar16	1415	53155	41640	0	11515	20.4%	0	111	271	1356	878	11258	13664	20.5%					
Apr16	1415	59120	50197	0	8923	10.7%	0	112	117	105	291	498	2811	3.4%					
May16	1415	48626	43508	0	11118	20.4%	0	109	241	1168	658	8184	11084	20.4%					
Jun16	1415	51916	36922	0	12193	23.7%	0	109	241	1100	658	9285	12311	23.7%					
Jul16	1415	59279	42633	0	11246	20.8%	0	111	260	1311	851	10852	13919	23.4%					
Aug16	1415	41426	42983	0	11557	25.7%	0	114	17	72	36	58	1112	2.7%					
Sep16	1415	61187	39714	0	11433	20.3%	0	109	267	1131	651	10812	11381	22.1%					
Oct16	1415	58843	43465	0	11378	25.2%	0	117	361	1426	784	12486	15048	25.7%					
Nov16	1415	58113	42617	0	11596	23.1%	0	106	151	733	376	8250	7930	11.1%					
Dec16	1415	60177	42617	0	17560	30.0%	0	106	151	733	376	8250	7930	11.1%					
Jan17	1415	44249	43934	0	10615	23.9%	0	108	304	1021	670	8417	10007	18.8%					
Feb17	1415	48126	42917	0	11209	23.7%	0	108	304	1021	670	8417	10007	18.8%					
Mar17	1415	44937	43097	0	10990	20.3%	0	108	318	1088	644	8004	10082	20.1%					
Apr17	1415	48146	42917	0	10959	20.3%	0	106	305	1026	298	3950	4759	9.9%					
May17	1415	49026	37210	0	11816	25.1%	0	106	305	1026	298	3950	4759	9.9%					
Jun17	1415	49174	32937	0	24137	48.8%	0	106	305	1026	298	3950	4759	9.9%					
Jul17	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Aug17	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Oct17	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Nov17	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Dec17	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Jan18	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Feb18	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Mar18	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Apr18	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
May18	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Jun18	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Jul18	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Aug18	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Sep18	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Oct18	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Nov18	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Dec18	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Jan19	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Feb19	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Mar19	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Apr19	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
May19	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Jun19	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Jul19	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Aug19	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Sep19	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Oct19	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Nov19	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Dec19	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Jan20	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Feb20	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Mar20	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Apr20	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
May20	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					
Jun20	1415	49026	36204	0	12822	26.8%	0	106	305	1026	298	3950	4759	9.9%					

**WATER BALANCE AND USAGE FOR MOORREESBURG DISTRIBUTION SYTEM**



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