

Appendix F: Statistical parameters comparison between historical and generated data

Appendix F1: Total unit cost. (TUC).

	parameter	Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Historical, TUC	Mean	Ak2	5.0662	5.5368	5.5692	5.3718	5.4573	5.5533	5.7095	6.0509	5.5829	5.2318	5.1196	6.3829
	SD	Ak2	0.7482	0.7892	0.9070	0.7468	1.0126	1.1745	1.2562	1.2565	0.9856	0.6279	0.6141	2.7097
	Correlation	Ak2	-0.0640	0.6762	0.6313	0.7603	0.7127	0.7762	0.7773	0.5225	0.7400	0.7379	0.6194	0.3992
	skew	Ak2	1.1650	0.0695	0.5665	0.7801	0.3649	1.5054	0.6429	0.6113	1.3416	-0.5861	0.1825	0.8015

Generated, TUC	Mean	Ak2	5.0840	5.4910	5.5593	5.3785	5.4335	5.5058	5.7678	6.1153	5.6607	5.2552	5.1251	5.9909
	SD	Ak2	0.8539	0.7813	0.9948	0.8851	1.0573	1.2176	1.3978	1.3839	1.1917	0.6093	0.5968	1.9973
	Correlation	Ak2	0.0433	0.5711	0.5216	0.7635	0.6642	0.7136	0.6449	0.4649	0.5427	0.6777	0.5770	0.4165
	skew	Ak2	2.1410	0.0326	1.6482	2.2231	0.9618	2.0582	1.3679	1.4035	2.4298	-0.5481	0.3067	1.3698

Historical, TUC	Mean	Ak3	2.3581	2.4751	2.3858	2.3926	2.2575	2.2198	2.1261	2.0578	2.1456	2.2028	2.4293	3.0505
	SD	Ak3	0.2277	0.3509	0.3398	0.3686	0.3812	0.1805	0.2043	0.2066	0.1346	0.2405	0.2746	1.5825
	Correlation	Ak3	0.4245	0.5538	0.2543	0.3114	0.8661	0.8781	0.6409	0.8361	0.3302	0.8424	0.0640	0.6917
	skew	AK3	-0.0191	0.2580	0.7859	1.1572	1.7401	0.2947	-0.1274	1.0813	0.3915	0.5276	0.8593	2.0102

Generated, TUC	Mean	Ak3	2.3700	2.4971	2.4028	2.4096	2.2800	2.2276	2.1386	2.0729	2.1503	2.2180	2.4421	2.6585
	SD	Ak3	0.2306	0.3626	0.3426	0.4085	0.4632	0.1802	0.2031	0.2194	0.1364	0.2557	0.3054	0.8231
	Correlation	Ak3	-0.0501	0.5342	0.2416	0.3889	0.6514	0.7528	0.6341	0.8341	0.4160	0.8102	0.0506	0.3423
	skew	Ak3	0.0080	0.7358	1.0462	1.5275	2.9939	0.4649	-0.1700	1.5761	0.3525	0.5531	1.5456	2.7574

Historical, TUC	Mean	Jub1	6.0661	5.4845	5.0191	4.9458	4.8799	5.0961	5.4899	5.3827	5.8799	6.3980	6.2956	6.3263
	SD	Jub1	1.6133	1.2219	0.6761	0.5405	0.4902	0.6291	0.6269	0.7142	0.6850	1.2591	0.9869	1.2487
	Correlation	Jub1	-0.2340	-0.4047	0.0820	-0.0632	-0.1103	0.8388	0.4091	0.8222	0.1572	0.7219	0.4509	0.6921
	skew	Jub1	1.1902	1.2872	1.0602	1.7445	0.7385	0.8685	-0.0317	0.4567	-0.2465	0.9898	-0.1580	2.1155

Appendix F: contd...

parameter	Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Generated, TUC	Mean	Jub1	6.0860	5.5445	5.0093	4.9577	4.9015	5.1322	5.5039	5.3992	5.8658	6.4089	6.2451	6.2973
	SD	Jub1	1.5921	1.2136	0.7299	0.5548	0.5086	0.6747	0.6006	0.7139	0.6569	1.2528	0.9630	1.0660
	Correlation	Jub1	0.0017	-0.2180	0.2022	0.0742	0.0695	0.8106	0.3929	0.7883	0.1508	0.6301	0.4809	0.4306
	skew	Jub1	1.5797	1.7299	3.2345	3.6105	1.7620	2.1222	0.0701	0.9665	-0.4682	1.4948	-0.3094	2.5603
Historical, TUC	Mean	Jub2	3.1916	3.5337	3.1674	3.1459	2.9461	2.9880	2.9430	3.0208	3.1250	3.0557	3.3099	3.6300
	SD	Jub2	0.2657	0.2339	0.1816	0.1732	0.1817	0.1841	0.1661	0.5683	0.8019	0.4040	0.4019	1.4140
	Correlation	Jub2	-0.2295	0.0056	0.1874	0.3413	0.7241	0.7268	0.7051	0.6842	0.9902	0.8421	0.7814	0.2903
	skew	Jub2	0.4174	0.0879	-0.3780	-0.4758	0.1558	0.9983	0.4260	2.9865	3.1413	1.7789	2.3275	2.9763
Generated, TUC	Mean	Jub2	3.2023	3.5457	3.1721	3.1425	2.9439	2.9970	2.9419	2.9083	2.9170	3.0346	3.2874	3.3711
	SD	Jub2	0.2786	0.2375	0.1859	0.1690	0.1850	0.2361	0.1674	0.2369	0.1267	0.3676	0.3239	0.6366
	Correlation	Jub2	-0.0222	0.0647	0.1544	0.2951	0.7106	0.6431	0.6280	0.4432	0.7784	0.3608	0.3341	0.4729
	skew	Jub2	0.8221	0.2748	-0.4203	-0.4747	0.3835	2.6455	0.5326	2.8440	1.7868	2.3312	2.3797	3.4773
Historical, TUC	Mean	JubRO	6.0737	6.5314	7.4418	7.5336	6.7847	7.1274	6.7475	6.8178	6.3810	6.2319	6.6740	7.4395
	SD	JubRO	2.5522	1.8562	2.7142	1.4147	1.5968	1.8484	1.7176	1.5019	1.4128	1.1816	1.8201	2.5102
	Correlation	JubRO	1.0000	0.0530	0.7953	-0.0307	0.1311	0.7473	0.9127	0.8714	0.8782	0.9430	0.6983	0.7563
	skew	JubRO	0.9640	0.4152	0.0494	-0.0245	0.8299	0.6236	0.2146	0.6391	-0.2229	1.0308	-0.0179	-0.4952
Generated, TUC	Mean	JubRO	6.0903	6.5468	7.5634	7.5920	6.7317	7.0532	6.6421	6.7730	6.3317	6.2274	6.6607	7.4604
	SD	JubRO	1.8488	1.2404	2.0611	1.1510	1.3210	1.6445	1.3307	1.2781	1.0869	0.9758	1.3608	1.7223
	Correlation	JubRO	-0.0193	0.2431	0.4989	0.0167	-0.0250	0.6101	0.7496	0.8428	0.6726	0.9389	0.7021	0.5237
	skew	JubRO	1.1039	0.4250	0.1163	0.0290	1.1729	0.6950	0.4161	0.8527	-0.2323	0.8018	0.0659	-0.3360

Appendix F: contd...

parameter	Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Historical, TUC	Mean	Yan1	4.4239	5.0586	4.7799	4.9677	4.7284	4.8116	4.7694	4.6279	4.6747	4.2407	4.4323	5.2592
	SD	Yan1	0.6041	0.6775	0.6749	0.5874	0.5104	0.5684	0.7145	0.3716	0.5467	0.5524	0.4939	1.1073
	Correlation	Yan1	-0.6549	0.6222	0.4603	0.6662	0.1730	0.5319	0.6878	0.7058	0.5534	0.5703	0.4830	0.4934
	skew	Yan1	-0.3098	0.3814	-0.6262	0.7165	0.1885	-0.2287	1.1406	-0.3875	-0.0868	0.1632	-0.3515	1.1959
Generated, TUC	Mean	Yan1	4.4251	5.0826	4.7783	4.9828	4.7330	4.7898	4.7461	4.6089	4.6807	4.2572	4.4410	5.3250
	SD	Yan1	0.5990	0.7088	0.7320	0.5883	0.5430	0.5784	0.7900	0.3743	0.5342	0.5513	0.4997	1.2000
	Correlation	Yan1	-0.0306	0.6319	0.4714	0.6968	0.0976	0.5224	0.6001	0.6016	0.5708	0.5599	0.4685	0.5568
	skew	Yan1	-0.6601	0.7784	-1.3265	0.7054	0.4143	-0.3290	3.1827	-0.6171	0.0305	0.5191	-0.4066	1.8016
Historical, TUC	Mean	Yan2	3.3994	3.7374	3.6530	3.6929	3.0738	3.1690	2.9882	2.9574	3.3409	3.3220	3.0174	4.4204
	SD	Yan2	0.5485	1.1636	0.6357	0.7446	0.4281	0.2802	0.3633	0.3554	0.6006	0.6937	0.4739	1.9441
	Correlation	Yan2	0.4425	0.5621	0.3640	-0.0833	0.6032	0.7179	0.7103	0.7496	0.4652	0.0650	0.2498	0.6306
	skew	Yan2	0.3993	1.9550	0.8439	2.1752	0.8155	-0.9621	0.0602	-0.1954	-0.0993	1.1510	-0.2186	0.9578
Generated, TUC	Mean	Yan2	3.4045	3.6228	3.6474	3.7053	3.1391	3.1618	2.9833	2.9640	3.3648	3.3992	3.0309	4.2841
	SD	Yan2	0.5457	1.0917	0.7124	0.7564	0.7561	0.3102	0.3730	0.3664	0.6224	1.0117	0.4563	1.8718
	Correlation	Yan2	0.0121	0.4684	0.3874	0.0214	0.4669	0.4459	0.6576	0.7628	0.5042	0.1424	0.2691	0.6250
	skew	Yan2	0.5888	3.5890	2.1422	2.5774	4.1359	-1.7809	0.3095	-0.2776	0.0431	3.4091	-0.3242	2.1644
Historical, TUC	Mean	YanRO	2.9226	3.0757	3.0430	4.1420	3.3154	2.7368	3.1331	3.1878	2.8003	2.5535	2.6838	3.6292
	SD	YanRO	0.4581	0.3343	0.2750	1.5989	0.5912	0.1820	0.7395	0.9245	0.3603	0.2628	0.4053	0.7129
	Correlation	YanRO	-0.0206	0.5930	0.3742	-0.3705	0.0505	0.4128	0.4855	0.9450	0.0661	0.8554	0.8155	0.2298
	skew	YanRO	1.1361	0.5040	-1.3100	0.9081	0.7506	0.7941	0.9112	1.5520	1.3336	0.5016	1.8387	-0.4853

Appendix F: contd...

	parameter	Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Generated, TUC	Mean	YanRO	2.9569	3.1138	3.0650	3.9570	3.2843	2.7382	3.1192	3.0965	2.8290	2.5709	2.7132	3.6032
	SD	YanRO	0.5785	0.3619	0.2542	1.5074	0.6543	0.2179	0.9136	0.8697	0.3861	0.2651	0.4653	0.7620
	Correlation	YanRO	-0.0293	0.3554	0.3311	-0.1595	0.3085	0.2962	0.3713	0.7439	0.2084	0.8624	0.8189	0.2807
	skew	YanRO	2.0706	0.9694	-1.8633	2.1973	1.9436	2.6549	3.2952	2.6201	1.6469	0.5996	2.2309	-0.8987
Historical, TUC	Mean	Jed2	7.5944	7.9604	7.8275	7.7921	7.3269	7.1012	7.6802	7.0873	7.4674	6.2923	6.5774	7.4515
	SD	Jed2	1.4351	0.8855	1.1849	1.1792	1.9805	1.6098	1.1241	1.6824	1.3897	1.2496	0.9671	1.1084
	Correlation	Jed2	0.1448	0.4348	0.5865	0.4032	0.6932	0.9080	0.8295	0.5737	0.8677	0.7726	0.7437	0.7428
	skew	Jed2	0.3557	-0.5160	-0.0837	0.1856	0.3320	0.6263	-0.3192	1.3535	0.2913	0.5775	0.5929	0.1867
Generated, TUC	Mean	Jed2	7.6239	7.9856	7.8763	7.7807	7.2567	7.0352	7.6240	7.1135	7.4931	6.3038	6.5957	7.4857
	SD	Jed2	1.2181	0.7325	0.9644	0.9642	1.6338	1.3069	0.9422	1.3590	1.1030	0.9947	0.7925	0.9222
	Correlation	Jed2	-0.0285	0.4349	0.5469	0.4202	0.6468	0.9057	0.8227	0.5729	0.8965	0.7641	0.7478	0.6891
	skew	Jed2	0.3974	-0.4748	-0.0797	0.1795	0.5408	0.6590	-0.3901	1.4462	0.3108	0.6402	0.6541	-0.0073
Historical, TUC	Mean	Jed3	5.4323	5.6715	5.1188	5.2116	5.2508	5.1374	4.7811	4.6932	4.6640	4.6165	5.6361	6.4206
	SD	Jed3	1.8726	1.4047	1.3152	0.9271	0.7550	0.9033	0.5587	0.5201	0.6294	0.8012	1.3835	2.1875
	Correlation	Jed3	-0.0408	0.9251	0.8943	0.8862	0.1872	0.6276	0.4655	0.7971	0.4746	0.3140	0.4240	0.9544
	skew	Jed3	2.1271	1.6957	1.2388	1.4945	1.1214	0.5026	1.0067	0.1971	0.3462	1.0437	-0.2587	0.2366
Generated, TUC	Mean	Jed3	5.1983	5.7505	5.1803	5.2065	5.2428	5.1447	4.7979	4.6995	4.7167	4.6613	5.5864	6.4040
	SD	Jed3	1.4638	1.4462	1.4816	0.9655	0.6824	1.0123	0.6470	0.5404	0.6541	0.7967	1.4347	2.2472
	Correlation	Jed3	0.0476	0.5769	0.7842	0.7443	0.1161	0.5276	0.4235	0.6809	0.4299	0.2502	0.4414	0.9463
	skew	Jed3	2.5142	1.7631	2.2726	3.2799	1.7715	1.3342	2.5934	0.3002	0.9415	0.7925	-0.3462	0.6170

Appendix F: contd...

	parameter	Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Historical, TUC	Mean	Jed4	4.6838	4.8623	4.7481	4.8220	5.2988	4.8536	4.7335	4.5930	4.3354	4.3590	4.4962	6.0216
	SD	Jed4	0.7941	0.8732	1.0535	1.0200	1.6550	0.7187	0.8656	0.6237	0.8062	0.6889	0.7268	1.5978
	Correlation	Jed4	0.0944	0.7820	0.8898	0.8671	-0.1165	-0.0173	0.8377	0.7922	0.8436	0.8967	0.9692	0.2399
	skew	Jed4	0.6807	1.1877	0.9125	0.9487	2.1093	0.5056	0.9018	1.3896	1.8311	0.7085	0.8462	0.3529
Generated, TUC	Mean	Jed4	4.6954	4.9175	4.8145	4.8961	5.1079	4.8659	4.7364	4.5838	4.3270	4.3661	4.4929	6.0407
	SD	Jed4	0.8176	1.0361	1.1931	1.1396	1.3271	0.7301	0.9199	0.6963	0.8791	0.7458	0.7317	1.6856
	Correlation	Jed4	-0.0183	0.6607	0.6995	0.6929	0.0983	0.1583	0.7486	0.6065	0.5719	0.7075	0.9567	0.2962
	skew	Jed4	0.8495	2.6382	2.0849	2.0295	1.9265	1.2801	2.0467	3.4823	3.4823	2.0967	1.0094	1.0438
Historical, TUC	Mean	JedRO1	2.2857	4.9889	2.5135	2.1897	4.3843	2.0272	2.6559	2.4242	2.2590	2.0539	3.0239	3.3426
	SD	JedRO1	0.2084	1.6393	0.3423	0.3220	2.6449	0.3928	1.2414	0.4215	0.1758	0.2888	0.7224	0.4749
	Correlation	JedRO1	0.4586	0.0716	0.8202	-0.3184	-0.1207	0.5662	0.3615	0.6403	0.5870	0.5343	-0.6208	-0.5772
	skew	JedRO1	-0.4323	-0.4843	0.1464	0.5021	0.7064	-0.0618	1.3327	0.8143	0.6825	-0.4037	0.2603	1.0576
Generated, TUC	Mean	JedRO1	2.2897	5.0469	2.5250	2.2029	4.3125	2.0260	2.6649	2.4180	2.2593	2.0523	3.0225	3.3878
	SD	JedRO1	0.2182	1.5352	0.3297	0.3908	2.6466	0.3846	1.4999	0.4643	0.1818	0.3119	0.7337	0.6413
	Correlation	JedRO1	0.0015	0.0491	0.8045	-0.3398	-0.0929	0.6565	0.5081	0.5055	0.6721	0.4797	-0.5237	-0.4929
	skew	JedRO1	-1.0292	-0.3271	0.4071	2.5737	1.3805	0.0524	3.6759	2.3498	0.8134	-1.1324	0.7891	4.1717
Historical, TUC	Mean	JedRO2	3.1927	2.7285	2.5886	2.7641	2.7550	2.5339	2.2742	2.7950	2.8420	2.5008	2.6555	3.6050
	SD	JedRO2	2.1084	0.3963	0.4666	0.3540	0.7776	0.4417	0.2096	0.6979	0.9514	0.3629	0.2942	0.6536
	Correlation	JedRO2	0.8895	0.8554	0.8718	0.7139	-0.0434	0.6193	0.0942	0.2667	0.9183	0.8842	0.9676	0.9364
	skew	JedRO2	3.0794	1.3263	1.5539	1.2835	1.7708	1.2818	-0.6551	2.6644	2.4693	1.3168	1.6672	1.9043

Appendix F: contd...

	parameter	Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Generated, TUC	Mean	JedRO2	2.7704	2.7209	2.5788	2.7646	2.7116	2.5401	2.2629	2.7047	2.7545	2.5346	2.6775	3.6408
	SD	JedRO2	0.7667	0.3950	0.4893	0.3716	0.8047	0.4518	0.2404	0.4290	0.7836	0.5174	0.3300	0.7516
	Correlation	JedRO2	0.0159	0.4981	0.5706	0.4155	-0.0255	0.5642	0.0531	0.2560	0.4101	0.3889	0.7392	0.6241
	skew	JedRO2	2.7203	1.2800	2.2678	1.4168	3.0343	1.5930	-1.4437	2.4634	3.1975	3.4997	2.5594	3.0985
Historical, TUC	Mean	Shu1	3.2807	3.6584	3.5395	3.5690	3.1932	3.2864	3.7986	3.9762	3.8287	3.3611	3.4905	3.7280
	SD	Shu1	0.3272	0.6102	0.5010	1.0223	0.4789	0.5091	1.8205	1.5248	1.4341	0.6636	0.2726	0.3819
	Correlation	Shu1	-0.2166	0.8410	-0.1887	-0.2491	0.2684	0.3543	0.1914	0.9468	0.9097	0.1123	0.7734	0.1575
	skew	Shu1	-1.1270	0.2292	0.0821	2.3891	0.6513	0.0852	2.7620	1.8121	2.8412	0.5102	0.2195	-0.0019
Generated, TUC	Mean	Shu1	3.2825	3.6781	3.5331	3.5428	3.1949	3.2762	3.5393	3.9273	3.6209	3.3982	3.5179	3.7264
	SD	Shu1	0.3193	0.5662	0.4666	0.8922	0.4794	0.4865	1.0549	1.6753	0.8713	0.6528	0.2687	0.3574
	Correlation	Shu1	0.0080	0.7902	-0.1562	-0.0037	0.5011	0.4628	0.4393	0.6026	0.4989	0.3584	0.7351	0.1443
	skew	Shu1	-2.0973	0.4561	0.0950	2.8041	1.0982	0.0775	2.8645	-0.7232	5.6978	0.5627	0.2796	0.0129
Historical, TUC	Mean	Shu2	1.9380	2.0336	2.0084	2.0341	1.7565	1.9000	1.8697	1.8812	1.9668	1.8792	1.7780	2.3150
	SD	Shu2	0.7779	0.7140	0.6399	0.6633	0.7010	0.4616	0.6496	0.5718	0.8688	0.9326	0.5467	1.1701
	Correlation	Shu2	0.8148	0.9709	0.9145	0.9110	0.9509	0.9378	0.9659	0.9916	0.9877	0.9918	0.9703	0.9924
	skew	Shu2	2.4417	2.5956	2.4378	2.2793	1.9808	1.8434	2.4819	2.3239	2.6577	2.4902	1.8530	1.9283
Generated, TUC	Mean	Shu2	1.8989	2.0594	2.0930	2.1271	2.0070	1.9902	1.8690	1.9121	1.9403	1.8403	1.8510	2.5219
	SD	Shu2	0.5921	0.6389	0.7412	0.9382	1.2075	0.5986	0.5553	0.5425	0.6852	0.8113	0.7379	1.6113
	Correlation	Shu2	0.1237	0.4081	0.2794	0.4762	0.3997	0.4935	0.6135	0.6076	0.6743	0.4657	0.7324	0.4380
	skew	Shu2	2.8234	2.7818	2.9242	3.9343	3.4729	2.8603	3.4782	2.9649	3.2469	3.0269	3.3838	3.2656

Appendix F: contd...

	parameter	Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Historical, TUC	Mean	Shq	3.9873	4.0957	3.2374	4.2241	3.1809	2.8908	2.8148	2.8745	2.9587	2.7101	2.8304	4.3351
	SD	Shq	1.0665	0.9322	0.5850	2.4138	0.6384	0.1973	0.1931	0.2216	0.2335	0.2820	0.2772	0.8530
	Correlation	Shq	-0.3696	0.3895	0.1980	0.5058	0.8813	0.6133	0.8883	0.8335	0.9784	0.8459	0.5707	0.0103
	skew	Shq	1.2174	0.7607	-0.0121	2.5581	0.9642	0.0104	-0.4084	0.2256	0.0433	0.3086	-1.2475	0.2692
Generated, TUC	Mean	Shq	4.1102	4.1934	3.2699	3.8087	3.1966	2.8911	2.8158	2.8838	2.9685	2.7233	2.8221	4.3058
	SD	Shq	1.3247	1.0764	0.5750	1.4494	0.6100	0.1812	0.1800	0.2092	0.2173	0.2671	0.2888	0.8205
	Correlation	Shq	0.0418	0.4942	0.2478	0.4075	0.5930	0.6579	0.8772	0.8180	0.9759	0.8574	0.4507	-0.0343
	skew	Shq	2.4893	1.7103	0.1345	2.7002	1.5872	0.0794	-0.6895	0.4285	0.0599	0.3692	-1.7654	0.5134

Appendix F: contd...

Appendix F2: Total water production (TWP)

	parameter	Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Historical, TWP	Mean	Ak2	493345 9.1	4434231.2	4654324.0	4518376.3	4663583.2	4457129.3	4373187.2	4442263.0	4539613.2	4645810.8	4967354.2	5168424.3
	SD	Ak2	639604 .0	596346.7	797508.4	699907.6	734325.0	860198.1	969534.3	716866.6	631925.9	570701.4	558717.2	508077.2
	Correlation	Ak2	0.47	0.76	0.72	0.86	0.92	0.86	0.81	0.96	0.58	0.73	0.68	0.59
	skew	Ak2	-0.71	-0.36	-0.27	-0.42	-0.27	-0.53	0.04	0.10	-0.64	0.45	0.21	0.49
Generated, TWP	Mean	Ak2	490817 3.0	4416760.0	4645217.7	4495711.8	4648140.6	4444152.1	4390270.4	4456867.2	4552306.2	4672626.9	4965124.8	5214234.9
	SD	Ak2	684435 .1	636357.6	814583.1	756845.8	758270.1	877471.9	977336.3	739902.9	689024.2	612753.1	605212.2	728690.7
	Correlation	Ak2	0.03	0.78	0.72	0.86	0.91	0.86	0.82	0.96	0.55	0.68	0.64	0.41
	skew	Ak2	-1.00	-0.75	-0.44	-0.94	-0.48	-0.72	0.17	0.30	-1.45	0.58	0.44	2.45
Historical, TWP	Mean	Ak3	661583 4.2	6372960.7	6775774.6	7161272.3	7468543.3	7563496.3	7955669.6	7883648.2	7538452.1	7726429.7	6826350.9	6949493.2
	SD	Ak3	921194 .3	1198540.0	1328160.7	1323875.3	1378421.1	1014361.6	847146.7	969239.4	742102.3	874609.8	912425.9	686038.5
	Correlation	Ak3	0.40	0.68	0.63	0.77	0.91	0.95	0.83	0.99	0.79	0.92	0.48	0.63
	skew	Ak2	-0.76	-0.94	-0.30	-1.48	-1.92	-1.71	-2.85	-3.01	-1.17	-1.08	0.34	-0.82
Generated, TWP	Mean	Ak3	659940 2.8	6321682.6	6810346.0	7285435.1	7602435.3	7682027.1	8085904.9	8069263.9	7564674.8	7719046.1	6859984.1	6925337.0
	SD	Ak3	999710 .5	1295050.6	1365208.9	1176466.5	1082134.3	772888.2	445198.4	371300.8	757546.6	944525.8	963571.9	793197.9
	Correlation	Ak3	0.01	0.50	0.53	0.80	0.81	0.78	0.55	0.85	0.73	0.85	0.43	0.60
	skew	Ak2	-1.25	-1.40	-0.47	-1.49	-1.66	-1.63	-1.78	-1.69	-1.76	-1.63	0.78	-1.70
Historical, TWP	Mean	Jub1	327499 5.1	3336018.4	3831428.7	3528056.2	3573203.7	3387746.3	3290410.9	3305059.4	3058307.6	3371223.2	3234111.0	3466459.2
	SD	Jub1	983300 .6	429584.4	432197.1	466229.2	537713.3	566905.7	447795.9	365371.5	667347.8	571180.7	726065.3	489980.9

Appendix F: contd...

	parameter	Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Correlation	Jub1	-0.30	0.92	-0.02	0.56	0.53	0.91	0.82	0.85	0.82	0.65	0.69	0.88
	skew	Jub1	-1.67	-1.60	-0.45	0.33	-0.42	-0.28	0.55	1.01	-0.96	-0.90	-0.61	-1.79
Generated, TWP	Mean	Jub1	334305 4.1	3343678.6	3828605.7	3556736.1	3590656.3	3394703.1	3294808.7	3314379.9	3060232.6	3368043.1	3223515.9	3484859.9
	SD	Jub1	818004 .0	399861.3	412262.4	480494.6	517238.3	546272.7	437217.7	338632.7	668087.7	548797.4	711028.2	414211.1
	Correlation	Jub1	0.01	0.76	0.11	0.52	0.48	0.90	0.79	0.78	0.56	0.66	0.59	0.79
	skew	Jub1	-1.11	-1.60	-0.63	0.81	-0.50	-0.34	0.72	0.48	-0.98	-1.36	-0.53	-1.74
Historical, TWP	Mean	Jub2	259501 32.4	23249113. 5	26966781. 4	26620230. 3	28863845. 2	28887563. 6	29557306. 2	28914416. 7	28089381. 0	28169379. 9	26226066. 8	26657747. 7
	SD	Jub2	250491 2.6	1708587.4	1474307.7	1489640.9	1878886.8	1960839.3	1883302.0	3762130.7	4395789.1	2913488.6	2703823.7	2240637.7
	Correlation	Jub2	0.18	0.12	0.33	0.37	0.76	0.76	0.88	0.78	0.98	0.90	0.88	0.48
	skew	Jub2	-0.47	-0.31	0.41	0.75	-0.73	-1.40	-1.28	-2.72	-3.02	-2.32	-2.15	-0.77
Generated, TWP	Mean	Jub2	260766 39.1	23264073. 4	27033929. 8	26733768. 7	28928373. 1	28994073. 9	29769062. 9	29613480. 9	29000458. 8	28460346. 8	26438701. 0	26601803. 0
	SD	Jub2	263048 4.4	1748455.8	1547571.6	1690602.9	1982319.9	1911905.9	1547237.3	1785981.0	1518939.9	2366357.3	2237377.0	2631192.7
	Correlation	Jub2	0.02	0.13	0.27	0.32	0.69	0.62	0.66	0.68	0.84	0.38	0.59	0.65
	skew	Jub2	-0.83	-0.39	0.77	1.44	-1.39	-2.09	-1.53	-1.97	-1.67	-2.10	-1.95	-1.93
Historical, TWP	Mean	JubRO	115488 4.4	851069.5	1143096.2	906002.8	1069541.3	1159189.9	1021137.2	1214867.5	1171174.6	1242420.4	1253790.4	1152592.1
	SD	JubRO	565086 .0	533733.6	470491.0	427123.8	483526.1	344429.7	486591.6	299270.7	368892.4	347822.0	370583.6	479983.8
	Correlation	JubRO	0.04	0.64	0.75	0.70	0.50	0.63	0.81	0.72	0.95	0.97	0.86	0.85
	skew	JubRO	-0.06	0.06	-0.10	-0.38	-0.22	-0.58	-0.40	-0.81	0.20	-0.46	-0.12	0.58
Generated, TWP	Mean	JubRO	117580 2.4	873093.4	1167055.3	938748.5	1101032.4	1180211.1	1051144.6	1222265.5	1176905.7	1248041.2	1255204.9	1175419.4
	SD	JubRO	526659 .7	541082.0	465794.8	413292.2	473804.8	316308.3	433262.3	256498.4	341943.9	323482.1	346685.2	462588.8

Appendix F: contd...

	parameter	Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Correlation	JubRO	-0.02	0.45	0.68	0.71	0.48	0.56	0.57	0.62	0.84	0.96	0.84	0.85
	skew	JubRO	0.32	0.66	0.27	0.12	0.09	-0.51	0.00	-0.92	0.21	-0.50	-0.03	0.78
Historical, TWP	Mean	Yan1	298524 4.4	2750267.0	2834141.7	2640443.9	2781449.6	2685924.1	2691993.8	2743655.6	2785634.6	2917588.3	2813980.9	2868041.4
	SD	Yan1	297878 .8	182163.8	279745.4	260287.6	229981.9	289702.4	292735.8	241026.9	280509.0	330045.1	274596.5	331222.4
	Correlation	Yan1	-0.18	0.44	0.40	0.48	-0.42	0.31	0.57	0.66	0.71	0.76	0.80	0.27
	skew	Yan1	-0.48	-0.36	0.64	0.09	-0.32	0.18	0.73	0.45	-0.33	-1.25	-0.50	-0.38
Generated, TWP	Mean	Yan1	297173 6.4	2754352.6	2858576.2	2647380.9	2791231.4	2686643.8	2702278.2	2771177.7	2788285.2	2934284.3	2819442.1	2884910.3
	SD	Yan1	341927 .1	182242.9	346884.2	257023.6	233583.8	287553.4	325566.4	283868.8	318711.2	319130.7	299588.2	341481.5
	Correlation	Yan1	-0.01	0.39	0.23	0.37	-0.43	0.31	0.50	0.47	0.65	0.69	0.70	0.20
	skew	Yan1	-1.83	-0.28	2.48	0.21	-0.69	0.24	1.66	1.24	-1.17	-1.45	-1.24	-0.83
Historical, TWP	Mean	Yan2	340058 7.0	3202765.4	3267151.1	3146295.4	3648708.9	3539569.5	3808518.6	3772998.3	3434849.5	3608015.5	3771426.3	3756144.3
	SD	Yan2	473346 .5	806954.2	407724.5	459928.8	358098.9	219072.9	317013.6	355509.2	496174.7	418420.4	424561.4	332490.8
	Correlation	Yan2	-0.19	0.67	0.61	-0.54	0.21	0.07	0.73	0.69	0.29	0.10	0.01	0.06
	skew	Yan2	-0.20	-1.13	-0.40	-0.77	-0.20	-0.10	-0.54	-0.85	-0.78	-1.41	-0.93	-0.36
Generated, TWP	Mean	Yan2	339685 2.9	3218761.2	3271105.1	3132005.3	3635673.1	3541015.7	3806914.9	3777111.1	3447654.6	3620282.6	3751304.8	3748750.0
	SD	Yan2	465692 .7	787526.7	396901.0	495424.3	352596.1	221444.7	328540.9	412840.5	508908.4	397754.0	466265.3	323000.9
	Correlation	Yan2	-0.02	0.68	0.62	-0.48	0.12	0.15	0.71	0.57	0.22	0.06	0.09	0.08
	skew	Yan2	-0.38	-1.17	-0.43	-1.12	-0.18	-0.20	-1.04	-2.16	-1.00	-1.50	-1.60	-0.50
Historical, TWP	Mean	YanRO	320877 0.1	2870317.5	3196394.0	3121197.9	3323086.0	3267856.9	3392054.6	3340603.0	3208639.8	3427406.0	3282076.5	3367366.0
	SD	YanRO	350420 .0	330574.0	353388.8	273999.8	255687.4	211305.5	238403.1	349333.8	373779.4	368129.6	427298.2	369516.1

Appendix F: contd...

	parameter	Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Correlation	YanRO	0.78	0.97	0.71	0.90	0.76	0.54	0.90	0.66	0.65	0.87	0.87	0.97
	skew	YanRO	-0.56	-0.87	-0.04	-0.03	0.42	-0.66	-0.69	-0.12	-0.47	-0.62	-1.13	-0.69

Generated, TWP	Mean	YanRO	318817 8.7	2853050.1	3181182.7	3108377.0	3313474.7	3262875.2	3377229.0	3330619.0	3193664.9	3410931.0	3279340.8	3344811.6
	SD	YanRO	352548 .5	344769.3	345326.4	265494.4	276745.8	219431.9	274971.7	346748.8	400054.6	412622.9	403088.1	393623.2
	Correlation	YanRO	0.11	0.93	0.71	0.89	0.71	0.45	0.80	0.61	0.64	0.88	0.86	0.93
	skew	YanRO	-1.06	-1.37	0.03	-0.08	1.58	-1.05	-2.01	-0.15	-1.15	-1.54	-1.59	-1.64

Historical, TWP	Mean	Jed2	829010 .9	775911.0	906317.1	828664.7	847852.7	812985.6	758800.6	824196.9	796934.1	828775.4	895535.3	879399.3
	SD	Jed2	278966 .4	222155.4	249652.4	193845.0	316032.4	271845.3	288707.5	307435.2	327568.7	375492.4	239297.5	279264.0
	Correlation	Jed2	0.12	0.79	0.94	0.91	0.82	0.98	0.86	0.88	0.97	0.96	0.85	0.47
	skew	Jed2	0.17	-0.65	-0.17	-0.58	-0.06	-0.04	-1.53	-0.97	-1.24	-0.89	-1.05	-0.35

Generated, TWP	Mean	Jed2	826314 .4	780568.1	914664.7	834532.0	854754.4	819937.2	771380.4	836325.2	815363.2	848251.3	901183.7	869813.2
	SD	Jed2	228154 .0	181459.2	206734.4	161503.3	263756.2	227371.6	197831.2	222534.9	223211.8	270470.5	171016.2	208765.4
	Correlation	Jed2	0.07	0.82	0.95	0.91	0.83	0.98	0.86	0.77	0.95	0.93	0.60	0.47
	skew	Jed2	0.20	-0.54	-0.09	-0.46	0.08	0.00	-0.48	-0.44	-0.38	-0.26	-1.00	-0.28

Historical, TWP	Mean	Jed3	220711 5.7	1923225.1	2240168.7	2113566.6	2182168.8	2074430.9	2282411.4	2253167.2	2183795.2	2297689.1	2237588.6	2340788.3
	SD	Jed3	377189 .3	335214.0	260725.2	285962.8	233353.8	300055.2	226482.7	214658.9	203285.1	248129.5	223818.7	230822.4
	Correlation	Jed3	0.43	0.85	0.84	0.80	0.57	0.72	0.35	0.74	0.57	0.22	0.88	0.78
	skew	Jed3	-1.35	-0.70	-0.47	-1.28	-0.52	0.68	-1.14	-0.34	-0.68	-1.54	-1.18	-0.98

Generated, TWP	Mean	Jed3	220993 8.1	1925598.8	2240220.4	2111747.1	2178265.7	2080996.0	2283006.4	2241022.9	2170401.5	2311429.2	2240144.1	2337614.7
	SD	Jed3	363234 .1	337208.6	257472.1	286031.1	239270.1	343069.6	207732.2	225880.6	235948.7	230284.9	225111.4	257072.0

Appendix F: contd...

parameter	Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Correlation	Jed3	-0.03	0.79	0.78	0.63	0.59	0.67	0.18	0.52	0.61	0.09	0.68	0.65
skew	Jed3	-1.46	-0.98	-0.80	-1.58	-0.85	1.81	-1.67	-0.60	-1.69	-1.82	-1.61	-1.93

Historical, TWP	Mean	Jed4	577941 9.7	5204925.0	5589299.6	5322669.4	5471300.8	5272851.6	5659014.5	5762547.0	5672612.4	5677546.8	5485762.9	5650577.5
	SD	Jed4	809343 .3	655905.0	734206.5	822820.8	576562.2	641299.1	788087.2	655978.6	773941.2	787292.6	693889.6	687236.2
	Correlation	Jed4	0.46	0.70	0.87	0.98	0.92	0.88	0.90	0.79	0.91	0.90	0.94	0.88
	skew	Jed4	0.18	0.22	-0.29	0.05	0.44	0.32	0.10	-0.34	-0.51	0.08	0.33	0.48

Generated, TWP	Mean	Jed4	581842 0.4	5244397.3	5622638.7	5371036.3	5519044.8	5304419.9	5685978.5	5754469.6	5667797.8	5692520.8	5508256.1	5668915.7
	SD	Jed4	879437 .5	681430.0	770092.6	862983.8	652821.4	680788.5	798292.9	669706.3	807333.2	782337.7	700630.8	691012.6
	Correlation	Jed4	0.22	0.72	0.87	0.98	0.90	0.87	0.89	0.79	0.91	0.88	0.94	0.85
	skew	Jed4	0.87	0.43	-0.32	0.20	1.09	0.64	0.18	-0.65	-0.93	0.23	0.46	0.47

Historical, TWP	Mean	JedRO1	181544 6.3	1623389.0	1814407.6	1749113.3	1783751.3	1802310.9	1864587.2	1803766.2	1808355.1	1828487.2	1809547.8	1867767.6
	SD	JedRO1	94679. 9	96095.2	97799.7	156877.5	271150.4	66999.0	61243.7	186334.5	80882.2	168467.4	69644.3	85031.9
	Correlation	JedRO1	0.76	0.50	0.83	0.64	0.32	0.09	0.87	0.07	0.19	0.86	0.75	0.55
	skew	JedRO1	0.09	-0.02	0.40	-1.23	-2.51	0.02	-0.53	-1.56	-0.07	-1.18	-0.29	0.42

Generated, TWP	Mean	JedRO1	181909 0.4	1625214.3	1818523.4	1744100.6	1807693.4	1800098.8	1861733.0	1806655.4	1808370.9	1827957.1	1809840.8	1870792.7
	SD	JedRO1	91599. 1	95944.3	101838.1	165046.1	181389.7	66666.9	61664.6	179115.7	77802.9	165992.4	71230.8	88579.5
	Correlation	JedRO1	-0.01	0.51	0.80	0.60	0.69	0.39	0.85	0.21	0.33	0.83	0.66	0.53
	skew	JedRO1	-0.06	0.16	0.68	-1.57	-1.68	0.14	-0.70	-1.54	-0.11	-1.59	-0.41	0.78

Historical, TWP	Mean	JedRO2	174673 7.7	1725749.5	1917778.0	1872101.7	1930003.0	1858392.5	1925291.9	1853203.8	1827751.5	1875171.4	1854561.3	1867810.3
	SD	JedRO2	365941 .8	74994.6	86261.2	78149.1	90743.1	88267.3	94197.6	211474.7	144723.7	144278.7	86008.6	131502.5

Appendix F: contd...

	parameter	Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Correlation	JedRO2	-0.15	0.27	0.79	0.87	0.95	0.90	0.92	0.53	0.91	0.43	0.84	0.49
	skew	JedRO2	-2.71	0.88	-0.41	-0.88	-0.45	-0.76	-0.34	-1.25	-1.72	-0.69	-0.44	-0.69

Generated, TWP	Mean	JedRO2	179363 5.6	1728586.1	1917676.4	1871188.6	1927011.8	1852968.5	1922087.0	1854146.7	1828667.6	1868334.8	1849575.7	1865718.8
	SD	JedRO2	206748 .8	78720.1	91498.4	80615.5	94485.7	98514.2	96882.2	209821.1	145055.8	171916.4	102966.5	144424.7
	Correlation	JedRO2	-0.01	0.43	0.76	0.89	0.91	0.85	0.89	0.68	0.88	0.61	0.74	0.54
	skew	JedRO2	-1.65	1.06	-1.20	-1.26	-0.94	-1.54	-0.31	-1.60	-1.99	-2.06	-1.73	-1.49

Historical, TWP	Mean	Shu1	648867 9.8	5846702.1	6812209.1	6138179.2	6126960.8	6046342.7	6395931.7	6110740.6	5396434.3	5706302.9	5640478.1	5926682.9
	SD	Shu1	718185 .0	1026260.3	789764.9	1202660.8	1584487.7	1758190.4	1501701.8	1423511.6	2134712.7	2004994.7	1860926.4	2005832.2
	Correlation	Shu1	0.28	0.73	0.85	0.44	0.94	0.96	0.98	0.96	0.88	0.99	0.30	0.96
	skew	Shu1	1.54	-0.41	-0.86	-1.29	-1.93	-1.96	-2.47	-1.96	-1.96	-2.37	-2.70	-1.97

Generated, TWP	Mean	Shu1	652923 8.0	5904988.7	6826961.7	6164348.7	6202895.7	6137167.0	6554657.5	6203650.3	5547219.0	5831968.7	5838120.9	6025311.4
	SD	Shu1	726265 .2	987056.3	840653.0	1095756.1	1250928.5	1356606.6	939678.3	1070527.0	1745086.4	1388575.0	1049202.2	1549998.0
	Correlation	Shu1	0.02	0.64	0.80	0.58	0.87	0.89	0.93	0.83	0.52	0.74	0.32	0.89
	skew	Shu1	2.19	-0.47	-1.63	-1.06	-1.37	-1.31	-1.77	-1.32	-1.25	-1.24	-1.24	-1.05

Historical, TWP	Mean	Shu2	1105118 7.8	9778461.5	10517232.5	10188816.8	10805112.6	10430079.0	10978272.2	10787288.1	10613505.1	11334340.1	11107008.1	11715363.5
	SD	Shu2	438035 7.7	3741484.5	3250114.9	3263541.9	3503076.0	3244517.2	3163364.6	3786333.6	3277125.5	3097364.9	3366799.7	2732354.6
	Correlation	Shu2	0.77	0.98	0.89	0.90	0.98	0.99	0.96	0.97	0.96	0.95	0.92	0.94
	skew	Shu2	-1.80	-2.07	-1.56	-1.65	-1.92	-1.96	-1.65	-2.35	-1.53	-1.18	-1.88	-1.01

Generated, TWP	Mean	Shu2	114510 41.8	10179173. 2	10699458. 7	10376141. 9	11091876. 9	10701715. 4	11229473. 3	11189324. 0	10888043. 2	11633687. 8	11429962. 1	11893042. 5
	SD	Shu2	325834 7.8	2694723.4	2913457.7	2824011.2	2790405.2	2590661.1	2677954.3	2708309.1	2782063.8	2645426.8	2561907.0	2466078.7

Appendix F: contd...

	parameter	Plant	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Correlation	Shu2	0.39	0.95	0.74	0.79	0.96	0.96	0.92	0.93	0.95	0.88	0.94	0.94
	skew	Shu2	-0.33	-0.26	-1.11	-1.14	-1.09	-1.08	-1.24	-1.06	-1.14	-1.34	-1.21	-1.32

Historical, TWP	Mean	Shq	262574 8.0	2371048.2	3157882.0	2996384.7	2998796.6	2899339.6	3034901.2	3013899.1	2901587.8	2996483.1	3126705.2	2766093.3
	SD	Shq	517458 .2	475391.7	336080.8	455320.4	776567.1	927302.5	892238.0	906348.2	825482.3	901612.3	169920.2	388267.1
	Correlation	Shq	0.22	0.39	-0.21	0.90	0.22	0.99	0.99	0.99	1.00	0.99	-0.38	-0.08
	skew	Shq	-0.93	-0.15	-1.44	-2.38	-2.95	-3.08	-3.03	-2.97	-2.97	-3.00	-1.85	-0.77

Generated, TWP	Mean	Shq	263965 1.2	2389160.7	3168489.4	3041872.0	3132135.8	3057336.6	3185713.9	3168745.1	3048197.7	3141970.8	3124911.5	2757322.3
	SD	Shq	524398 .5	482095.0	324352.8	317761.0	329371.1	367613.1	360541.1	391769.9	337457.7	393006.0	160088.6	391141.9
	Correlation	Shq	0.01	0.46	-0.15	0.81	0.56	0.87	0.91	0.87	0.96	0.90	-0.10	-0.02
	skew	Shq	-1.32	-0.06	-1.87	-1.83	-1.76	-1.41	-1.65	-1.49	-1.32	-1.46	-1.98	-1.07