

**APPENDICES TO
KLAMATH RIVER NUTRIENT LOADING AND RETENTION
DYNAMICS IN FREE-FLOWING REACHES, 2005-2008**



**PREPARED FOR THE
YUROK TRIBE ENVIRONMENTAL PROGRAM**

BY

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APPENDICES

- A1. Coefficients from multiple regression model
- A2. Comparison of results of five methods for calculating nutrient loads
- A3. Table with complete seasonal summaries of budget components for all parameters and reaches
- A4. Scatterplots showing the relationship between reach inflow nutrient concentration and retention for June-October periods
- A5. Charts showing daily time series and summaries of outputs from multiple regression model used to predict concentrations for each station

APPENDIX A1

Coefficients from multiple regression model used to calculate daily loads

Table A1. Standard error, coefficient of determination (R^2) and regression coefficients for each station for total phosphorus. See methods section for predictive equation and explanation of regression coefficients.

Site	Variable	Regression Standard Error	Regression R^2											
				B10	B9	B8	B7	B6	B5	B4	B3	B2	B1	B0
KR_bel_Keno	TP	27.5%	0.63	1.0594	-0.0838	336.3990	-0.0427	0.3685	-0.2240	-0.0398	0.0820	-0.1132	-0.2256	-337704.255
KR_bel_Keno	SRP	75.4%	0.40	2.5289	-0.2665	1070.1161	0.0139	0.3540	-0.4070	-0.3137	0.5270	-2.1707	2.3964	-1074114.528
KR_bel_Keno	PP	32.8%	0.54	0.4176	-0.0089	35.8372	0.0624	0.4622	0.1308	0.1028	-0.0541	0.3999	-0.8366	-36088.345
KR_bel_Keno	TN	19.7%	0.85	-0.0929	-0.0037	14.9055	0.1430	0.3829	0.3161	-0.2454	-0.1014	0.3501	-0.5270	-14971.305
KR_bel_Keno	INORGN	69.2%	0.68	1.0952	-0.1497	601.0229	-0.0787	0.5823	0.7252	-0.5221	0.1181	-0.0640	-0.7423	-603111.862
KR_bel_Keno	NH4N	90.5%	0.70	2.1412	-0.2091	839.2612	0.1062	0.5713	0.5875	-1.2499	0.1390	0.1106	-1.0930	-842302.299
KR_bel_Keno	NO23N	87.0%	0.52	0.5260	0.0503	-202.1815	-0.0345	-0.2166	1.4168	0.6781	0.4652	-2.3741	3.1137	203060.317
KR_bel_Keno	ORGN	21.5%	0.75	-0.2878	-0.0089	35.7004	0.0860	0.3294	0.0653	-0.1558	-0.1842	0.6745	-0.8329	-35889.163
KR_abv_Copco	TP	19.4%	0.74	-0.2875	-0.0291	116.9768	-0.1162	0.2481	-0.1999	-0.0247	0.1343	-0.4069	0.1845	-117449.241
KR_abv_Copco	TN	15.3%	0.81	-0.2070	0.0274	-109.9051	0.0354	0.2446	0.2763	-0.2481	0.0191	-0.1140	0.2719	110254.271
KR_bel_IGD	TP	13.3%	0.80	0.0970	-0.0274	109.8648	-0.1238	0.0240	-0.1724	-0.3957	0.1905	-0.9059	1.4729	-110314.319
KR_bel_IGD	SRP	23.3%	0.81	-0.8591	-0.0148	59.3575	0.0716	-0.2651	-0.4134	-0.9546	0.2079	-0.9077	1.3586	-59637.976
KR_bel_IGD	PP	40.5%	0.42	-0.9597	-0.0235	94.5423	-0.2532	0.2013	0.0207	0.1269	-0.3111	2.1819	-4.3158	-94929.836
KR_bel_IGD	TN	16.1%	0.79	0.4895	0.0233	-93.3879	0.0283	0.0772	0.4278	-0.1554	-0.0544	0.2559	-0.3310	93712.047
KR_bel_IGD	INORGN	39.3%	0.71	0.6846	0.1425	-572.1435	0.1006	-0.0286	0.9336	-0.0455	-0.0803	0.5692	-1.3788	574143.054
KR_bel_IGD	NH4N	58.6%	0.62	1.0366	0.0719	-288.4226	0.3600	-0.1751	1.0316	-0.1757	-0.0670	0.1695	0.4106	289425.757
KR_bel_IGD	NO23N	41.0%	0.69	0.8153	0.1663	-667.4563	0.0572	-0.0160	0.9156	-0.0034	-0.0191	0.2910	-1.1410	669796.661
KR_bel_IGD	ORGN	16.6%	0.57	0.2745	-0.0130	52.1531	-0.0351	0.1403	0.1779	-0.1367	-0.0032	-0.0872	0.4169	-52337.270
KR_Walker	TP	8.6%	0.94	1.7693	0.0180	0.0000	-2.9638	1.0299	-9.9759	13.7273	-0.3381	-0.0555	2.0185	-72484.603
KR_Walker	SRP	7.5%	0.95	0.6059	0.0235	0.0000	-3.5395	0.5866	-14.1386	16.1855	5.7434	-23.8813	32.2761	-94928.537
KR_Walker	PP	38.9%	0.81	8.3602	0.0563	0.0000	-9.3462	2.2577	-34.0003	41.5044	0.0095	-5.7933	15.8604	-227101.708
KR_Walker	TN	10.4%	0.92	0.7356	-0.0010	0.0000	-0.2700	0.0418	0.9942	0.0205	-3.1823	11.7319	-14.1623	3975.924
KR_Walker	INORGN	15.5%	0.96	1.7517	-0.0038	0.0000	1.0779	0.6513	6.1075	-1.0625	-1.9311	9.4261	-15.7682	15525.828
KR_Walker	NH4N	54.5%	0.55	2.9632	0.0755	0.0000	-11.0771	8.1905	-25.8283	73.1882	-30.2437	122.6958	-168.4336	-304327.622
KR_Walker	NO23N	17.3%	0.95	1.6768	-0.0076	0.0000	1.6465	0.2577	7.5091	-4.7471	0.1437	0.9475	-4.2044	30846.900

Site	Variable	Regression Standard Error	Regression R ²	B10	B9	B8	B7	B6	B5	B4	B3	B2	B1	B0
				KR_Walker	ORGN	15.5%	0.69	0.2889	0.0049	0.0000	-1.4955	0.1611	-3.2792	4.4194
KR_Seiad	TP	17.5%	0.80	-1.0031	-0.0500	200.8036	-0.2294	-0.5754	-1.2777	-1.3288	0.1064	-0.2951	-0.0849	-201611.793
KR_Seiad	SRP	18.3%	0.84	-0.1840	-0.0135	54.2341	-0.2404	-0.5651	-1.3093	-1.3799	0.0799	-0.4865	0.7725	-54475.914
KR_Seiad	PP	37.4%	0.41	-2.3261	-0.0676	271.6217	-0.1009	-0.3825	-0.7548	-0.9375	-0.1690	1.8183	-4.5997	-272717.069
KR_Seiad	TN	21.9%	0.71	0.8039	0.0861	-345.6952	0.1723	-0.7051	-0.3740	-1.0363	-0.1297	1.3944	-4.0128	346960.869
KR_Seiad	INORGN	82.9%	0.40	1.1262	0.2863	-1148.9724	0.9064	-0.1814	2.3062	0.1434	0.2444	-1.0867	1.3621	1152866.959
KR_Seiad	NH4N	52.1%	0.18	2.4951	-0.0113	45.5959	-0.4542	-1.1128	-2.0507	-0.8991	0.1817	-0.3258	-1.2624	-45844.835
KR_Seiad	NO23N	97.7%	0.38	1.0496	0.3499	-1404.5468	1.1426	-0.0019	2.9522	0.3599	0.3045	-1.5019	2.3379	1409321.479
KR_Seiad	ORGN	22.9%	0.68	0.6221	0.0485	-194.6666	0.0103	-0.7556	-1.0251	-1.2974	-0.0920	1.1728	-3.5685	195415.933
KR_Orleans	TP	16.4%	0.89	-0.3037	-0.1105	443.5690	-0.4311	-0.7104	-1.9113	-1.9430	0.2616	-1.7099	3.6512	-445213.161
KR_Orleans	SRP	18.2%	0.92	-1.1905	-0.0847	340.2479	-0.5126	-0.8863	-2.1646	-2.0291	0.2920	-2.1974	5.0712	-341523.111
KR_Orleans	PP	26.0%	0.75	0.8588	-0.1581	634.7017	-0.2380	-0.1937	-1.1266	-1.6040	-0.0904	1.1933	-3.2551	-637012.515
KR_Orleans	TN	25.2%	0.75	0.2228	0.0386	-155.0949	0.0204	-0.5049	-0.5681	-1.2435	-0.1200	1.0992	-3.1148	155727.710
KR_Orleans	INORGN	78.6%	0.52	-3.7921	0.2036	-817.5279	0.4296	-0.3197	2.3652	0.4500	0.2244	-1.5614	3.3034	820515.797
KR_Orleans	NH4N	46.9%	0.17	-1.9232	-0.1427	572.7813	-0.3352	0.6206	0.4607	0.6267	-0.0070	-0.2442	1.6580	-574947.819
KR_Orleans	NO23N	100.7%	0.52	-4.0241	0.3162	-1269.4498	0.5584	-0.6195	2.6957	0.3947	0.4892	-3.5160	7.7668	1274126.514
KR_Orleans	ORGN	22.8%	0.79	1.0795	-0.0090	35.9491	-0.1320	-0.6026	-1.3142	-1.6727	-0.1523	1.3127	-3.4639	-36030.889
KR_abv_Trin	TP	16.7%	0.90	-1.7939	-0.0888	356.4292	-0.5502	-0.8076	-1.8895	-1.5203	0.4109	-2.8800	6.1719	-357806.471
KR_abv_Trin	SRP	18.6%	0.92	-2.4208	-0.0871	349.7257	-0.6529	-0.9897	-2.3700	-1.9969	0.4300	-3.2195	7.4438	-351103.623
KR_abv_Trin	PP	33.8%	0.54	0.0217	-0.1047	420.2148	-0.3101	-0.8129	-1.6337	-1.1655	0.1061	-0.1693	-1.3727	-421747.658
KR_abv_Trin	TN	26.4%	0.69	-0.3039	0.0719	-288.7146	0.0523	-0.2511	0.0474	-0.5088	0.1438	-0.8698	1.3547	289805.442
KR_abv_Trin	INORGN	57.4%	0.68	-5.4571	0.1995	-800.8575	0.8682	0.0650	3.6821	1.2902	-0.0619	0.7681	-2.6104	803742.836
KR_abv_Trin	NH4N	25.8%	0.44	-1.2783	-0.0295	118.3859	-0.3879	-0.9687	-2.5877	-2.1144	0.4805	-3.4393	8.3270	-118916.328
KR_abv_Trin	NO23N	75.7%	0.67	-6.4041	0.2787	-1118.8078	1.0249	0.3977	5.2588	2.3937	-0.1708	1.5298	-4.3953	1122883.060
KR_abv_Trin	ORGN	25.9%	0.72	0.2402	0.0385	-154.4267	-0.1888	-0.3012	-0.6154	-0.7234	0.2603	-1.8285	3.8232	155007.760
KR_bel_Trin	TP	16.5%	0.89	-1.0673	-0.1085	435.5750	-0.2690	-0.7288	-1.3578	-1.2686	0.1344	-0.7030	0.4401	-437198.391
KR_bel_Trin	SRP	21.2%	0.91	-2.0084	-0.0831	333.8045	-0.4538	-1.2775	-2.3817	-1.9643	0.1589	-1.0396	1.3699	-335067.752
KR_bel_Trin	PP	29.8%	0.63	-0.3147	-0.1477	592.7931	-0.1922	-0.5000	-1.2648	-1.0659	0.0110	0.5054	-2.9367	-594963.588
KR_bel_Trin	TN	24.8%	0.70	3.0102	0.0853	-342.6011	0.2853	-0.2494	0.3877	-0.2061	-0.1348	1.5799	-5.9259	343990.764
KR_bel_Trin	INORGN	48.3%	0.71	-1.9624	0.3033	-1217.7019	1.0354	0.8510	5.2030	3.2560	0.2191	-1.5777	2.6326	1222239.009
KR_bel_Trin	NH4N	30.3%	0.46	-0.7687	0.0939	-377.0905	-0.4294	-0.1462	-1.0195	-0.2880	0.5685	-4.8863	13.4543	378435.321
KR_bel_Trin	NO23N	60.8%	0.72	-1.3736	0.3500	-1405.4628	1.3717	0.8725	6.4757	4.0380	0.0509	0.0110	-2.4279	1410752.280

Site	Variable	Regression Standard Error	Regression R ²											
				B10	B9	B8	B7	B6	B5	B4	B3	B2	B1	B0
KR_bel_Trin	ORGN	24.0%	0.72	3.9679	0.0556	-223.1946	0.1511	-0.3967	-0.3316	-0.6590	-0.1670	1.8346	-6.4968	224157.040
KR_Turwar	TP	20.0%	0.83	-1.2914	-0.1493	599.3980	-0.5145	-1.1654	-2.5823	-2.0038	0.1925	-1.2115	1.9209	-601590.928
KR_Turwar	SRP	26.5%	0.80	-0.6231	-0.1048	420.6210	-0.6531	-1.3370	-2.6621	-1.9129	0.0995	-0.5949	0.5005	-422177.095
KR_Turwar	PP	35.6%	0.60	-1.8452	-0.2014	808.4342	-0.3489	-0.9585	-2.4015	-1.9455	0.1441	-0.5714	-0.3210	-811360.682
KR_Turwar	TN	27.7%	0.55	1.3825	0.0194	-77.9148	-0.0911	-0.2659	-0.2920	-0.5091	-0.0606	0.7164	-2.6094	78292.617
KR_Turwar	INORGN	43.5%	0.42	-0.7942	0.0076	-30.6574	0.6762	1.1124	3.6739	2.6139	0.2890	-2.5621	6.9620	30836.229
KR_Turwar	NH4N	33.6%	0.47	-0.9426	-0.0794	318.7810	-0.5853	-1.1621	-3.1460	-2.3092	0.3124	-2.3962	6.1536	-319993.589
KR_Turwar	NO23N	55.7%	0.43	0.0206	0.0385	-154.6089	0.9995	1.9482	5.7489	4.1697	0.3305	-3.1726	9.2982	155263.960
KR_Turwar	ORGN	35.5%	0.53	0.3524	0.0290	-116.3309	-0.2980	-0.4351	-0.9720	-0.9564	-0.0146	0.2896	-1.2979	116849.653
Shasta_R	TP	9.3%	0.62	0.3924	0.0321	-128.9949	0.1159	-0.0248	-0.0377	-0.1298	0.0035	0.0225	-0.0278	129485.494
Shasta_R	SRP	13.5%	0.61	0.3450	0.0798	-320.4722	0.2753	0.1625	0.4489	0.0516	-0.0055	-0.0521	-0.1723	321644.500
Shasta_R	PP	87.4%	0.25	0.9368	-0.2369	950.9166	-1.1251	-0.3306	-2.2363	-0.0945	-0.0077	0.1016	0.2405	-954293.714
Shasta_R	TN	21.9%	0.59	0.6000	0.0488	-195.7927	-0.6907	-0.5508	-2.1485	-0.7336	-0.0583	-0.1872	-0.0458	196534.910
Shasta_R	INORGN	33.9%	0.86	0.6638	-0.0298	119.6484	1.3910	0.2846	4.0620	0.6843	0.1969	1.2501	2.2924	-119941.654
Shasta_R	NH4N	20.4%	0.63	0.6538	-0.0461	184.9353	0.1279	0.1319	0.4478	0.2256	0.1319	0.8338	1.4182	-185505.074
Shasta_R	NO23N	48.4%	0.83	0.5387	0.0166	-66.6109	1.6478	0.0851	4.5253	0.4854	0.2340	1.4559	2.7078	67002.406
Shasta_R	ORGN	23.8%	0.69	0.6361	0.0548	-220.1813	-0.9373	-0.7032	-2.9623	-0.9714	-0.0677	-0.2506	-0.1842	221011.939
Scott_R	TP	39.9%	0.70	-0.0840	-0.1187	476.3653	-0.8709	-0.1131	-1.9155	-0.4828	0.0491	0.1578	0.2689	-477971.785
Scott_R	SRP	59.5%	0.61	2.3682	0.1768	-709.7511	-0.6457	0.1668	-0.9929	0.1499	-0.0112	0.0833	0.4545	712504.379
Scott_R	PP	52.0%	0.62	-0.8192	-0.1962	787.4765	-0.8849	-0.0821	-1.9371	-0.5329	0.0578	0.1719	0.2886	-790251.210
Scott_R	TN	36.7%	0.58	-1.5625	-0.0444	178.1114	0.0132	0.1916	0.4756	0.2847	-0.0134	-0.1219	0.1029	-178750.063
Scott_R	INORGN	86.7%	0.64	-2.0776	0.0988	-396.8516	0.1991	-0.7531	-0.3441	-0.3419	-0.0154	-0.2280	0.0358	398319.473
Scott_R	NH4N	30.0%	0.60	-2.2387	-0.0980	393.5767	0.4384	0.1634	0.7865	0.0789	0.0470	0.2605	0.1912	-395048.516
Scott_R	NO23N	103.4%	0.67	-2.1885	0.2026	-813.2447	-0.0144	-1.2006	-1.0833	-0.7293	-0.0190	-0.3271	-0.0302	816254.494
Scott_R	ORGN	42.7%	0.20	-0.7597	-0.0450	180.6163	-0.0789	0.7130	1.0536	1.0608	0.0018	-0.0336	-0.0319	-181142.509
Salmon_R	TP	37.7%	0.48	-0.3391	-0.1378	553.4777	-0.3121	-0.0161	-0.7190	-0.9457	0.0885	-0.0119	0.1506	-555593.838
Salmon_R	SRP	56.6%	0.36	-0.7985	0.0931	-373.6720	-0.7852	-0.1945	-0.7499	-1.8353	0.0312	-0.4576	1.5360	374815.552
Salmon_R	PP	55.4%	0.52	-0.2284	-0.2655	1065.7859	0.0648	0.6832	0.6349	0.3391	0.0549	0.2796	-0.3671	-1069693.775
Salmon_R	TN	67.1%	0.55	1.4855	0.0605	-242.7646	-3.0300	-2.7662	-8.4206	-4.1185	0.2880	-0.7365	0.0127	243531.325
Salmon_R	INORGN	30.1%	0.27	-0.6575	0.0469	-188.3216	0.5330	1.2180	2.9035	1.7105	-0.0146	0.0464	0.1043	189025.329
Salmon_R	NH4N	21.5%	0.40	-0.6476	-0.0153	61.5185	-0.0764	-0.3607	-0.8847	-0.8249	0.1251	-0.1078	-0.1106	-61770.074
Salmon_R	NO23N	41.8%	0.29	-0.3818	0.1027	-412.1997	0.9411	2.4492	5.7428	3.7385	-0.1546	0.1869	0.2996	413745.563

Site	Variable	Regression Standard Error	Regression R ²	B10	B9	B8	B7	B6	B5	B4	B3	B2	B1	B0
Salmon_R	ORGN	80.4%	0.56	2.1167	0.0642	-257.7959	-3.7592	-3.5283	-10.5978	-5.0214	0.3491	-0.8927	-0.0953	258603.766
Trinity_R	TP	19.4%	0.94	-3.5041	-0.1261	506.3599	-0.0949	-0.1264	-0.3159	-0.2629	0.3160	-1.3017	1.7167	-508221.402
Trinity_R	SRP	58.5%	0.62	-0.6123	-0.3066	1230.6233	-0.4145	-0.8917	-1.8412	-0.8871	0.0255	-0.0691	0.1924	-1234862.701
Trinity_R	PP	27.6%	0.90	-4.2037	-0.0673	270.1707	0.1387	0.1250	0.3907	0.0468	0.3316	-1.2480	1.3853	-271232.864
Trinity_R	TN	39.2%	0.72	4.5950	0.1098	-440.8763	-0.3407	0.4387	1.2152	2.7061	0.3493	-1.7992	1.5308	442371.749
Trinity_R	INORGN	29.0%	0.76	0.7291	0.0997	-400.3373	-0.0261	0.5437	1.0615	1.2934	0.2075	-1.0542	1.5406	401875.585
Trinity_R	NH4N	24.8%	0.77	2.3632	-0.0653	262.0305	-0.1020	-0.8976	-1.8416	-1.5334	0.2146	-0.9024	1.0950	-263001.482
Trinity_R	NO23N	43.0%	0.64	0.0267	0.1892	-759.7389	0.0139	1.3405	2.6794	2.8866	0.1475	-0.8638	1.3782	762643.070
Trinity_R	ORGN	54.6%	0.68	1.4893	0.1232	-494.4620	-1.0318	0.6027	0.8875	3.5150	0.7532	-4.2352	5.4677	495990.060

APPENDIX A2

Comparison of results of five methods for calculating nutrient loads

Table A2. Comparison of mean daily loads at mainstem and major tributary stations calculated using five algorithms as described below. Mean daily loads were calculated only from sites/years/parameters when sampling frequency was adequate (i.e. monthly or better, see section 3.5.2.1 Seasonal Summaries for Primary Reaches in report for more details); thus, the number of years included in the mean daily load values vary by site and parameter (range is between one and four years). Standard error and regression R² are for method 5 only).

Site	Parameter	Relative Std Error	Regression R2	Mean Daily Load (MT/day)					M3 Load as % of M5 Load
				Method 1	Method 2	Method 3	Method 4	Method 5	
KR_bel_Keno	TP	7.6%	0.6340	0.4475	0.4513	0.4969	0.5209	0.5004	99.3%
KR_abv_Copco	TP	2.4%	0.7355	0.4717	0.4814	0.5210	0.4986	0.4969	104.8%
KR_bel_IGD	TP	2.1%	0.8044	0.4227	0.4392	0.4656	0.4647	0.4656	100.0%
KR_Walker	TP	1.5%	0.9386	0.5131	0.5351	0.5311	0.5372	0.5361	99.1%
KR_Seiad	TP	2.1%	0.7993	0.4546	0.4989	0.4905	0.4818	0.4827	101.6%
KR_Orleans	TP	2.8%	0.8887	0.4678	0.5018	0.4954	0.5016	0.4973	99.6%
KR_abv_Trin	TP	2.6%	0.9033	0.3776	0.4330	0.4351	0.4231	0.4302	101.1%
KR_bel_Trin	TP	2.1%	0.8947	0.4454	0.4644	0.4711	0.4623	0.4616	102.1%
KR_Turwar	TP	2.8%	0.8336	0.4312	0.4427	0.4560	0.4385	0.4515	101.0%
Shasta_R	TP	1.4%	0.6225	0.0312	0.0313	0.0315	0.0317	0.0316	99.8%
Scott_R	TP	4.1%	0.7016	0.0146	0.0124	0.0092	0.0081	0.0075	123.0%
Salmon_R	TP	18.1%	0.4778	0.0105	0.0108	0.0105	0.0122	0.0115	91.2%
Trinity_R	TP	3.0%	0.9423	0.0551	0.0370	0.0390	0.0364	0.0366	106.3%
KR_bel_Keno	TN	2.5%	0.8549	3.8323	4.2694	4.8199	4.8448	4.7893	100.6%
KR_abv_Copco	TN	1.8%	0.8093	4.7357	4.8690	4.4496	4.3721	4.3260	102.9%
KR_bel_IGD	TN	1.4%	0.7923	3.2693	3.3356	2.8999	2.9139	2.8961	100.1%
KR_Walker	TN	2.4%	0.9166	2.9650	3.0403	3.0890	3.0670	3.0585	101.0%
KR_Seiad	TN	2.5%	0.7101	2.6942	2.9729	2.8540	2.7857	2.8295	100.9%
KR_Orleans	TN	3.6%	0.7509	2.4052	2.6056	2.5633	2.5992	2.5723	99.7%
KR_abv_Trin	TN	3.9%	0.6869	2.1048	2.2819	2.3388	2.2290	2.3104	101.2%
KR_bel_Trin	TN	4.1%	0.7027	2.4566	2.5135	2.5667	2.4359	2.4804	103.5%
KR_Turwar	TN	4.9%	0.5504	2.6533	2.7568	2.7448	2.6937	2.7513	99.8%
Shasta_R	TN	5.1%	0.5900	0.0917	0.0829	0.0834	0.0874	0.0848	98.4%
Scott_R	TN	6.5%	0.5820	0.1269	0.1273	0.1301	0.1450	0.1308	99.4%
Salmon_R	TN	10.1%	0.5481	0.1000	0.0926	0.0987	0.1008	0.0925	108.2%
Trinity_R	TN	6.1%	0.7221	0.5404	0.3651	0.3694	0.2170	0.2173	104.8%
KR_abv_Trin	SRP	2.8%	0.9207	0.2849	0.3564	0.3148	0.3110	0.3014	104.4%
KR_bel_IGD	SRP	3.6%	0.8088	0.3015	0.3281	0.3549	0.3607	0.3548	100.0%
KR_bel_Keno	SRP	6.5%	0.3966	0.1814	0.2251	0.2347	0.2497	0.2276	103.1%
KR_bel_Trin	SRP	2.9%	0.9066	0.3004	0.3659	0.3205	0.3155	0.3036	105.6%
KR_Orleans	SRP	2.8%	0.9151	0.2868	0.3395	0.3343	0.3330	0.3290	101.6%
KR_Seiad	SRP	2.3%	0.8369	0.3267	0.3628	0.3611	0.3634	0.3607	100.1%
KR_Turwar	SRP	3.5%	0.7963	0.2530	0.2824	0.2581	0.2538	0.2466	104.7%
KR_Walker	SRP	1.5%	0.9450	0.3903	0.3883	0.2785	0.4511	0.4574	60.9%
Salmon_R	SRP	9.3%	0.3558	0.0047	0.0047	0.0049	0.0055	0.0052	94.4%
Scott_R	SRP	10.1%	0.6085	0.0025	0.0020	0.0016	0.0016	0.0014	113.6%
Shasta_R	SRP	2.3%	0.6066	0.0264	0.0271	0.0270	0.0271	0.0269	100.4%
Trinity_R	SRP	12.8%	0.6156	0.0204	0.0157	0.0153	0.0192	0.0145	105.7%

Site	Parameter	Relative Std Error	Regression R2	Mean Daily Load (MT/day)					M3 Load as % of M5 Load
				Method 1	Method 2	Method 3	Method 4	Method 5	
KR_abv_Trin	PP	5.9%	0.5393	0.1629	0.1495	0.1542	0.1377	0.1386	111.3%
KR_bel_IGD	PP	9.7%	0.4182	0.1209	0.1109	0.1106	0.1067	0.1069	103.5%
KR_bel_Keno	PP	4.9%	0.5440	0.2220	0.2260	0.2276	0.2407	0.2219	102.6%
KR_bel_Trin	PP	4.4%	0.6287	0.2952	0.2302	0.2492	0.2209	0.2249	110.8%
KR_Orleans	PP	4.4%	0.7490	0.1805	0.1634	0.1630	0.1667	0.1665	97.9%
KR_Seiad	PP	4.9%	0.4086	0.1361	0.1362	0.1328	0.1255	0.1250	106.2%
KR_Turwar	PP	4.6%	0.6047	0.3350	0.2686	0.2897	0.2621	0.2565	112.9%
KR_Walker	PP	7.3%	0.8102	0.1254	0.1253	0.0381	0.1550	0.1286	29.6%
Salmon_R	PP	25.9%	0.5213	0.0108	0.0088	0.0083	0.0079	0.0077	108.5%
Scott_R	PP	10.6%	0.6186	0.0122	0.0104	0.0076	0.0068	0.0060	126.2%
Shasta_R	PP	9.8%	0.2533	0.0050	0.0044	0.0046	0.0045	0.0045	103.7%
Trinity_R	PP	6.0%	0.9039	0.1944	0.1116	0.1142	0.0604	0.0652	175.0%
KR_abv_Trin	ORGN	3.9%	0.7177	2.7435	2.8868	2.9774	2.2304	2.4460	121.7%
KR_bel_IGD	ORGN	1.7%	0.5660	2.0978	2.1168	2.0772	2.0574	2.0762	100.1%
KR_bel_Keno	ORGN	2.6%	0.7493	2.6718	3.0827	3.2356	3.4121	3.2155	100.6%
KR_bel_Trin	ORGN	3.4%	0.7203	3.1818	3.1953	3.1312	3.0541	3.0692	102.0%
KR_Orleans	ORGN	3.2%	0.7936	2.5578	2.7157	2.7467	2.3849	2.4828	110.6%
KR_Seiad	ORGN	2.8%	0.6778	2.1258	2.3771	2.2838	2.2212	2.2425	101.8%
KR_Turwar	ORGN	7.0%	0.5265	3.2858	3.3318	3.1863	3.0033	3.1145	102.3%
KR_Walker	ORGN	3.9%	0.6871	2.1586	2.1495	1.7491	2.2990	2.3784	73.5%
Salmon_R	ORGN	11.8%	0.5586	0.1270	0.1228	0.1506	0.0833	0.0853	176.6%
Scott_R	ORGN	7.9%	0.1952	0.0769	0.0754	0.0742	0.0636	0.0718	103.3%
Shasta_R	ORGN	5.5%	0.6920	0.0844	0.0786	0.0813	0.0833	0.0826	98.4%
Trinity_R	ORGN	6.6%	0.6790	0.4103	0.2982	0.2931	0.1383	0.1456	201.3%
KR_abv_Trin	NO23N	20.9%	0.6712	0.2611	0.2155	0.2122	0.2033	0.2056	103.2%
KR_bel_IGD	NO23N	3.6%	0.6928	0.9564	1.0055	0.7001	0.7099	0.6842	102.3%
KR_bel_Keno	NO23N	28.9%	0.5245	0.2624	0.1940	0.1180	0.1061	0.1090	108.3%
KR_bel_Trin	NO23N	18.9%	0.7214	0.3435	0.2742	0.2653	0.2277	0.2194	120.9%
KR_Orleans	NO23N	13.5%	0.5200	0.2744	0.2464	0.2327	0.2461	0.2327	100.0%
KR_Seiad	NO23N	9.9%	0.3829	0.5269	0.5547	0.5305	0.5373	0.5499	96.5%
KR_Turwar	NO23N	16.2%	0.4270	0.5121	0.3994	0.4297	0.3962	0.3570	120.4%
KR_Walker	NO23N	2.6%	0.9541	0.7953	0.7913	0.6140	0.8279	0.8085	75.9%
Salmon_R	NO23N	8.9%	0.2860	0.0102	0.0111	0.0103	0.0103	0.0098	104.4%
Scott_R	NO23N	22.8%	0.6722	0.0567	0.0584	0.0644	0.1175	0.0680	94.7%
Shasta_R	NO23N	11.4%	0.8331	0.0063	0.0057	0.0048	0.0041	0.0038	126.3%
Trinity_R	NO23N	10.0%	0.6424	0.0688	0.0462	0.0506	0.0425	0.0383	132.0%
KR_abv_Trin	NH4N	7.1%	0.4423	0.0602	0.0499	0.0551	0.0513	0.0506	108.8%
KR_bel_IGD	NH4N	9.3%	0.6215	0.2182	0.2169	0.1222	0.1202	0.1184	103.2%
KR_bel_Keno	NH4N	12.6%	0.7049	1.0117	1.3287	1.3241	1.4539	1.2371	107.0%
KR_bel_Trin	NH4N	7.8%	0.4636	0.1096	0.0910	0.0963	0.0740	0.0734	131.3%
KR_Orleans	NH4N	15.2%	0.1674	0.0610	0.0555	0.0565	0.0538	0.0534	105.7%
KR_Seiad	NH4N	7.4%	0.1785	0.0430	0.0426	0.0405	0.0385	0.0380	106.6%
KR_Turwar	NH4N	7.0%	0.4655	0.1291	0.0982	0.1067	0.0968	0.0933	114.3%
KR_Walker	NH4N	9.9%	0.5495	0.0434	0.0434	0.0244	0.0678	0.0606	40.2%
Salmon_R	NH4N	14.6%	0.3985	0.0101	0.0088	0.0088	0.0085	0.0085	102.5%
Scott_R	NH4N	11.0%	0.6014	0.0064	0.0058	0.0043	0.0036	0.0034	127.0%
Shasta_R	NH4N	2.4%	0.6271	0.0012	0.0009	0.0010	0.0010	0.0009	104.6%
Trinity_R	NH4N	17.1%	0.7707	0.0741	0.0506	0.0519	0.0366	0.0379	137.1%

Site	Parameter	Relative Std Error	Regression R2	Mean Daily Load (MT/day)					M3 Load as % of M5 Load
				Method 1	Method 2	Method 3	Method 4	Method 5	
KR_abv_Trin	INORGN	15.6%	0.6825	0.3213	0.2654	0.2672	0.2533	0.2524	105.9%
KR_bel_IGD	INORGN	3.6%	0.7064	1.1746	1.2224	0.8223	0.8298	0.8046	102.2%
KR_bel_Keno	INORGN	10.7%	0.6811	1.2738	1.5222	1.4417	1.5292	1.3347	108.0%
KR_bel_Trin	INORGN	15.5%	0.7082	0.4531	0.3651	0.3617	0.2974	0.2859	126.5%
KR_Orleans	INORGN	11.7%	0.5170	0.3353	0.3019	0.2891	0.2892	0.2841	101.8%
KR_Seiad	INORGN	8.0%	0.3970	0.5698	0.5974	0.5710	0.5592	0.5835	97.9%
KR_Turwar	INORGN	12.6%	0.4212	0.6411	0.4976	0.5364	0.4847	0.4480	119.7%
KR_Walker	INORGN	2.6%	0.9606	0.8388	0.8346	0.6384	0.8575	0.8348	76.5%
Salmon_R	INORGN	6.7%	0.2665	0.0202	0.0199	0.0190	0.0188	0.0184	103.5%
Scott_R	INORGN	15.2%	0.6435	0.0631	0.0641	0.0687	0.1036	0.0715	96.1%
Shasta_R	INORGN	8.2%	0.8607	0.0074	0.0067	0.0058	0.0050	0.0049	120.2%
Trinity_R	INORGN	5.9%	0.7612	0.1429	0.0968	0.1025	0.0778	0.0732	140.1%

APPENDIX A3

**Table with complete seasonal summaries of
budget components for all parameters and reaches**

Year	Season	Days	Reach Number	Reach Name	Miles	Parameter	Inflow Load				Outflow Load (MT)	Retention			
							% of Total Inflow			MT		MT	kg/day/mi	%	% /mi
							Mainstem	Gaged Tribs	Ungaged Tribs	Total Inflow Load					
2007	June-Oct	142	1	Keno-Copco	26.92	TP	91.0	0.0	9.0	74.5	69.7	4.8	1.26	6.47	0.24
2008	June-Oct	137	1	Keno-Copco	26.92	TP	92.2	0.0	7.8	77.7	74.7	2.9	0.79	3.77	0.14
2005	June-Oct	142	4	IG-Sciad	61.15	TP	89.3	9.5	1.2	58.8	54.8	4.0	0.47	6.87	0.11
2006	June-Oct	142	4	IG-Sciad	61.15	TP	87.9	10.7	1.4	84.5	80.6	3.9	0.45	4.64	0.08
2007	June-Oct	142	4	IG-Sciad	61.15	TP	94.0	5.3	0.7	72.2	66.9	5.3	0.61	7.30	0.12
2008	June-Oct	137	4	IG-Sciad	61.15	TP	93.8	4.9	1.3	71.7	68.8	2.8	0.34	3.95	0.06
2005	June-Oct	142	4+5	IG-Orleans	130.61	TP	81.3	10.7	8.0	64.6	57.4	7.2	0.39	11.16	0.09
2006	June-Oct	142	4+5	IG-Orleans	130.61	TP	86.8	10.3	2.9	42.4	37.5	4.9	0.26	11.54	0.09
2007	June-Oct	142	4+5	IG-Orleans	130.61	TP	88.6	7.4	4.0	76.5	72.4	4.1	0.22	5.34	0.04
2008	June-Oct	137	4+5	IG-Orleans	130.61	TP	88.5	6.7	4.8	76.0	59.2	16.8	0.94	22.09	0.17
2005	June-Oct	142	4+5+6	IG-AbvTrin	146.23	TP	79.8	10.5	9.6	65.8	52.8	13.0	0.63	19.82	0.14
2007	June-Oct	142	4+5+6	IG-AbvTrin	146.23	TP	87.5	7.3	5.2	77.5	69.8	7.6	0.37	9.86	0.07
2008	June-Oct	137	4+5+6	IG-AbvTrin	146.23	TP	87.4	6.7	5.9	76.9	58.1	18.8	0.94	24.43	0.17
2005	June-Oct	142	4+5+6+7	IG-Turwar	183.94	TP	69.7	19.4	10.9	75.4	60.5	14.9	0.57	19.72	0.11
2007	June-Oct	142	4+5+6+7	IG-Turwar	183.94	TP	82.2	11.0	6.8	82.5	75.3	7.2	0.27	8.70	0.05
2008	June-Oct	137	4+5+6+7	IG-Turwar	183.94	TP	81.4	11.3	7.2	82.6	54.0	28.6	1.14	34.63	0.19
2008	June-Oct	137	4A	IG-Walker	33.73	TP	95.2	4.0	0.8	70.7	73.4	-2.7	-0.59	-3.86	-0.11
2008	June-Oct	137	4B	Walker-Sciad	27.42	TP	98.6	0.9	0.4	74.4	68.8	5.6	1.48	7.48	0.27
2005	June-Oct	142	5	Sciad-Orlean	69.46	TP	90.4	2.3	7.3	60.6	57.4	3.2	0.32	5.23	0.08
2006	June-Oct	142	5	Sciad-Orlean	69.46	TP	93.0	3.1	3.9	86.7	90.8	-4.1	-0.42	-4.78	-0.07
2007	June-Oct	142	5	Sciad-Orlean	69.46	TP	93.9	2.6	3.5	71.2	72.4	-1.2	-0.12	-1.67	-0.02
2008	June-Oct	137	5	Sciad-Orlean	69.46	TP	94.1	2.2	3.7	73.2	59.2	14.0	1.47	19.07	0.27
2005	June-Oct	142	6	Orleans-AbvTrin	15.62	TP	98.0	0.0	2.0	58.6	52.8	5.8	2.63	9.95	0.64
2007	June-Oct	142	6	Orleans-AbvTrin	15.62	TP	98.6	0.0	1.4	73.4	69.8	3.6	1.60	4.85	0.31
2008	June-Oct	137	6	Orleans-AbvTrin	15.62	TP	98.5	0.0	1.5	60.1	58.1	2.0	0.94	3.34	0.21
2005	June-Oct	142	6A	Orl-AbvTrin	16.62	TP	86.6	11.6	1.8	66.3	60.1	6.2	2.63	9.37	0.56
2007	June-Oct	142	6A	Orl-AbvTrin	16.62	TP	94.3	4.4	1.3	76.8	70.6	6.2	2.61	8.03	0.48
2008	June-Oct	137	6A	Orl-AbvTrin	16.62	TP	92.0	6.6	1.4	64.4	62.9	1.5	0.64	2.27	0.14
2005	June-Oct	142	7	AbvTrin-Turwar	37.71	TP	84.6	12.4	3.0	62.3	60.5	1.8	0.34	2.91	0.08
2007	June-Oct	142	7	AbvTrin-Turwar	37.71	TP	93.4	4.6	2.1	74.8	75.3	-0.5	-0.09	-0.62	-0.02
2008	June-Oct	137	7	AbvTrin-Turwar	37.71	TP	91.1	6.7	2.3	63.8	54.0	9.8	1.90	15.38	0.41
2005	June-Oct	142	7A	AbvTrin-Turwar	36.71	TP	97.0	0.0	3.0	62.0	60.5	1.4	0.28	2.32	0.06
2007	June-Oct	142	7A	AbvTrin-Turwar	36.71	TP	97.8	0.0	2.2	72.2	75.3	-3.1	-0.59	-4.26	-0.12
2008	June-Oct	137	7A	AbvTrin-Turwar	36.71	TP	97.8	0.0	2.2	64.4	54.0	10.4	2.06	16.10	0.44
2007	June-Oct	142	1	Keno-Copco	26.92	TN	96.5	0.0	3.5	673.6	605.4	68.2	17.84	10.12	0.38
2008	June-Oct	137	1	Keno-Copco	26.92	TN	97.0	0.0	3.0	707.2	638.4	68.8	18.66	9.73	0.36
2005	June-Oct	142	4	IG-Sciad	61.15	TN	89.9	9.0	1.1	418.8	433.6	-14.8	-1.70	-3.53	-0.06
2006	June-Oct	142	4	IG-Sciad	61.15	TN	88.0	10.4	1.6	492.1	443.6	48.5	5.58	9.86	0.16
2007	June-Oct	142	4	IG-Sciad	61.15	TN	95.8	3.4	0.8	434.4	345.9	88.6	10.20	20.39	0.33
2008	June-Oct	137	4	IG-Sciad	61.15	TN	93.2	5.4	1.4	434.2	368.2	66.0	7.88	15.21	0.25
2006	June-Oct	142	4+5	IG-Orleans	130.61	TN	86.5	9.7	3.7	213.7	153.6	60.1	3.24	28.12	0.22

Year	Season	Days	Reach Number	Reach Name	Miles	Parameter	Inflow Load				Outflow Load (MT)	Retention			
							% of Total Inflow			MT		MT	kg/day/mi	% /mi	
							Mainstem	Gaged Tribs	Unengaged Tribs	Total Inflow Load					
2007	June-Oct	142	4+5	IG-Orleans	130.61	TN	90.5	5.2	4.3	459.6	342.0	117.6	6.34	25.58	0.20
2008	June-Oct	137	4+5	IG-Orleans	130.61	TN	86.8	8.2	5.0	466.4	305.5	160.9	8.99	34.50	0.26
2007	June-Oct	142	4+5+6	IG-AbvTrin	146.23	TN	89.3	5.1	5.6	466.1	337.9	128.2	6.17	27.51	0.19
2008	June-Oct	137	4+5+6	IG-AbvTrin	146.23	TN	85.7	8.1	6.2	472.3	304.2	168.2	8.40	35.61	0.24
2007	June-Oct	142	4+5+6+7	IG-Turwar	183.94	TN	81.7	11.1	7.2	509.0	417.9	91.1	3.49	17.91	0.10
2008	June-Oct	137	4+5+6+7	IG-Turwar	183.94	TN	79.0	13.4	7.6	512.6	347.5	165.1	6.55	32.20	0.18
2008	June-Oct	137	4A	IG-Walker	33.73	TN	97.2	1.9	0.9	416.3	418.8	-2.5	-0.55	-0.61	-0.02
2008	June-Oct	137	4B	Walker-Seiad	27.42	TN	95.9	3.6	0.5	436.7	368.2	68.6	18.25	15.70	0.57
2006	June-Oct	142	5	Seiad-Orlean	69.46	TN	92.3	3.2	4.6	480.8	434.5	46.3	4.69	9.62	0.14
2007	June-Oct	142	5	Seiad-Orlean	69.46	TN	93.2	2.4	4.4	371.0	342.0	29.0	2.94	7.81	0.11
2008	June-Oct	137	5	Seiad-Orlean	69.46	TN	92.0	3.6	4.4	400.3	305.5	94.9	9.97	23.69	0.34
2007	June-Oct	142	6	Orleans-AbvTrin	15.62	TN	98.1	0.0	1.9	348.5	337.9	10.6	4.80	3.05	0.20
2008	June-Oct	137	6	Orleans-AbvTrin	15.62	TN	98.1	0.0	1.9	311.5	304.2	7.3	3.42	2.35	0.15
2007	June-Oct	142	6A	Orl-AbvTrin	16.62	TN	89.7	8.6	1.7	381.3	358.3	23.0	9.74	6.03	0.36
2008	June-Oct	137	6A	Orl-AbvTrin	16.62	TN	89.2	9.0	1.7	342.3	328.9	13.4	5.87	3.91	0.23
2007	June-Oct	142	7	AbvTrin-Turwar	37.71	TN	88.7	8.6	2.7	380.8	417.9	-37.1	-6.92	-9.73	-0.26
2008	June-Oct	137	7	AbvTrin-Turwar	37.71	TN	88.3	8.9	2.7	344.4	347.5	-3.1	-0.60	-0.90	-0.02
2007	June-Oct	142	7A	AbvTrin-Turwar	36.71	TN	97.2	0.0	2.8	368.5	417.9	-49.4	-9.48	-13.41	-0.37
2008	June-Oct	137	7A	AbvTrin-Turwar	36.71	TN	97.2	0.0	2.8	338.3	347.5	-9.2	-1.82	-2.71	-0.07
2005	June-Oct	142	4	IG-Seiad	61.15	TIN	91.6	7.7	0.6	130.8	94.5	36.3	4.18	27.73	0.45
2006	June-Oct	142	4	IG-Seiad	61.15	TIN	84.4	14.4	1.2	125.5	80.7	44.8	5.16	35.71	0.58
2007	June-Oct	142	4	IG-Seiad	61.15	TIN	95.7	3.7	0.7	97.6	58.4	39.3	4.52	40.21	0.66
2008	June-Oct	137	4	IG-Seiad	61.15	TIN	91.9	7.3	0.8	145.5	94.3	51.2	6.11	35.20	0.58
2005	June-Oct	142	4+5	IG-Orleans	130.61	TIN	86.0	9.6	4.4	139.4	46.2	93.2	5.03	66.87	0.51
2006	June-Oct	142	4+5	IG-Orleans	130.61	TIN	93.3	3.9	2.8	53.6	10.5	43.0	2.32	80.35	0.62
2007	June-Oct	142	4+5	IG-Orleans	130.61	TIN	91.3	5.1	3.6	102.3	29.4	72.9	3.93	71.29	0.55
2008	June-Oct	137	4+5	IG-Orleans	130.61	TIN	88.5	8.6	2.9	151.1	38.6	112.5	6.29	74.44	0.57
2005	June-Oct	142	4+5+6	IG-AbvTrin	146.23	TIN	85.1	9.5	5.4	140.8	46.4	94.4	4.55	67.06	0.46
2007	June-Oct	142	4+5+6	IG-AbvTrin	146.23	TIN	90.2	5.0	4.7	103.5	23.8	79.7	3.84	77.03	0.53
2008	June-Oct	137	4+5+6	IG-AbvTrin	146.23	TIN	87.8	8.6	3.6	152.2	37.6	114.7	5.72	75.33	0.52
2005	June-Oct	142	4+5+6+7	IG-Turwar	183.94	TIN	76.3	17.4	6.3	157.0	73.6	83.4	3.19	53.14	0.29
2007	June-Oct	142	4+5+6+7	IG-Turwar	183.94	TIN	84.9	8.9	6.2	110.0	50.2	59.8	2.29	54.36	0.30
2008	June-Oct	137	4+5+6+7	IG-Turwar	183.94	TIN	83.0	12.5	4.5	161.0	53.9	107.1	4.25	66.53	0.36
2008	June-Oct	137	4A	IG-Walker	33.73	TIN	99.2	0.3	0.5	134.8	111.5	23.3	5.04	17.27	0.51
2008	June-Oct	137	4B	Walker-Seiad	27.42	TIN	91.3	8.4	0.3	122.2	94.3	27.9	7.43	22.85	0.83
2005	June-Oct	142	5	Seiad-Orlean	69.46	TIN	91.7	3.1	5.2	103.1	46.2	56.9	5.77	55.22	0.79
2006	June-Oct	142	5	Seiad-Orlean	69.46	TIN	91.9	3.4	4.6	87.8	45.2	42.6	4.32	48.51	0.70
2007	June-Oct	142	5	Seiad-Orlean	69.46	TIN	92.6	2.6	4.8	63.1	29.4	33.7	3.41	53.41	0.77
2008	June-Oct	137	5	Seiad-Orlean	69.46	TIN	94.3	2.4	3.3	99.9	38.6	61.3	6.44	61.34	0.88
2005	June-Oct	142	6	Orleans-AbvTrin	15.62	TIN	97.0	0.0	3.0	47.6	46.4	1.2	0.55	2.58	0.17
2007	June-Oct	142	6	Orleans-AbvTrin	15.62	TIN	96.1	0.0	3.9	30.6	23.8	6.8	3.06	22.23	1.42
2008	June-Oct	137	6	Orleans-AbvTrin	15.62	TIN	97.2	0.0	2.8	39.7	37.6	2.2	1.02	5.50	0.35
2005	June-Oct	142	6A	Orl-AbvTrin	16.62	TIN	75.0	22.7	2.3	61.6	64.9	-3.3	-1.42	-5.43	-0.33
2007	June-Oct	142	6A	Orl-AbvTrin	16.62	TIN	83.5	13.1	3.4	35.2	23.3	11.8	5.02	33.68	2.03
2008	June-Oct	137	6A	Orl-AbvTrin	16.62	TIN	82.6	15.1	2.4	46.8	35.2	11.6	5.08	24.71	1.49
2005	June-Oct	142	7	AbvTrin-Turwar	37.71	TIN	74.1	22.3	3.6	62.6	73.6	-11.0	-2.05	-17.56	-0.47
2007	June-Oct	142	7	AbvTrin-Turwar	37.71	TIN	78.6	15.2	6.2	30.3	50.2	-19.9	-3.72	-65.89	-1.75

Year	Season	Days	Reach Number	Reach Name	Miles	Parameter	Inflow Load				Outflow Load (MT)	Retention			
							% of Total Inflow			MT					
							Mainstem	Gaged Tribs	Ungaged Tribs	Total Inflow Load		MT	kg/day/mi	%	%/mi
2008	June-Oct	137	7	AbvTrin-Turwar	37.71	TIN	81.0	15.2	3.8	46.4	53.9	-7.5	-1.46	-16.28	-0.43
2005	June-Oct	142	7A	AbvTrin-Turwar	36.71	TIN	96.6	0.0	3.4	67.2	73.6	-6.4	-1.23	-9.56	-0.26
2007	June-Oct	142	7A	AbvTrin-Turwar	36.71	TIN	92.5	0.0	7.5	25.2	50.2	-25.0	-4.79	-99.11	-2.70
2008	June-Oct	137	7A	AbvTrin-Turwar	36.71	TIN	95.3	0.0	4.7	37.0	53.9	-16.9	-3.36	-45.76	-1.25
2005	June-Oct	142	4	IG-Seiad	61.15	SRP	89.3	9.7	1.0	45.9	45.1	0.7	0.08	1.60	0.03
2006	June-Oct	142	4	IG-Seiad	61.15	SRP	89.5	9.3	1.2	62.8	56.5	6.3	0.72	10.00	0.16
2007	June-Oct	142	4	IG-Seiad	61.15	SRP	93.7	5.7	0.6	54.4	50.3	4.2	0.48	7.68	0.13
2008	June-Oct	137	4	IG-Seiad	61.15	SRP	94.2	4.7	1.1	54.5	51.0	3.5	0.42	6.48	0.11
2005	June-Oct	142	4+5	IG-Orleans	130.61	SRP	82.9	10.4	6.6	49.4	41.0	8.3	0.45	16.87	0.13
2006	June-Oct	142	4+5	IG-Orleans	130.61	SRP	88.5	9.2	2.2	34.6	27.7	7.0	0.38	20.13	0.15
2007	June-Oct	142	4+5	IG-Orleans	130.61	SRP	90.1	6.4	3.4	56.6	46.8	9.8	0.53	17.24	0.13
2008	June-Oct	137	4+5	IG-Orleans	130.61	SRP	90.0	6.0	4.0	57.1	42.8	14.3	0.80	25.13	0.19
2005	June-Oct	142	4+5+6	IG-AbvTrin	146.23	SRP	81.7	10.3	8.0	50.1	36.3	13.8	0.67	27.59	0.19
2007	June-Oct	142	4+5+6	IG-AbvTrin	146.23	SRP	89.1	6.4	4.5	57.2	47.4	9.8	0.47	17.16	0.12
2008	June-Oct	137	4+5+6	IG-AbvTrin	146.23	SRP	89.1	5.9	5.0	57.7	42.0	15.7	0.78	27.14	0.19
2005	June-Oct	142	4+5+6+7	IG-Turwar	183.94	SRP	76.4	13.9	9.7	53.6	31.5	22.1	0.85	41.28	0.22
2007	June-Oct	142	4+5+6+7	IG-Turwar	183.94	SRP	85.9	8.1	6.0	59.4	36.6	22.8	0.87	38.42	0.21
2008	June-Oct	137	4+5+6+7	IG-Turwar	183.94	SRP	86.0	7.7	6.4	59.8	30.7	29.1	1.15	48.59	0.26
2008	June-Oct	137	4A	IG-Walker	33.73	SRP	94.8	4.5	0.7	54.2	55.9	-1.7	-0.37	-3.12	-0.09
2008	June-Oct	137	4B	Walker-Seiad	27.42	SRP	99.4	0.2	0.4	56.2	51.0	5.2	1.39	9.30	0.34
2005	June-Oct	142	5	Seiad-Orlean	69.46	SRP	92.8	1.4	5.8	48.6	41.0	7.6	0.77	15.62	0.22
2006	June-Oct	142	5	Seiad-Orlean	69.46	SRP	95.0	1.3	3.6	59.4	54.5	4.9	0.50	8.31	0.12
2007	June-Oct	142	5	Seiad-Orlean	69.46	SRP	95.9	1.1	3.1	52.4	46.8	5.6	0.57	10.64	0.15
2008	June-Oct	137	5	Seiad-Orlean	69.46	SRP	95.2	1.6	3.2	53.6	42.8	10.8	1.14	20.19	0.29
2005	June-Oct	142	6	Orleans-AbvTrin	15.62	SRP	98.2	0.0	1.8	41.8	36.3	5.5	2.48	13.15	0.84
2007	June-Oct	142	6	Orleans-AbvTrin	15.62	SRP	98.7	0.0	1.3	47.5	47.4	0.1	0.03	0.14	0.01
2008	June-Oct	137	6	Orleans-AbvTrin	15.62	SRP	98.6	0.0	1.4	43.3	42.0	1.3	0.61	3.02	0.19
2005	June-Oct	142	6A	Orl-AbvTrin	16.62	SRP	93.1	5.2	1.7	44.1	36.8	7.3	3.08	16.47	0.99
2007	June-Oct	142	6A	Orl-AbvTrin	16.62	SRP	96.3	2.4	1.3	48.6	45.9	2.8	1.18	5.70	0.34
2008	June-Oct	137	6A	Orl-AbvTrin	16.62	SRP	96.1	2.6	1.3	44.5	41.0	3.6	1.56	7.99	0.48
2005	June-Oct	142	7	AbvTrin-Turwar	37.71	SRP	91.2	5.8	3.0	39.8	31.5	8.3	1.55	20.87	0.55
2007	June-Oct	142	7	AbvTrin-Turwar	37.71	SRP	95.6	2.4	2.0	49.6	36.6	13.0	2.43	26.22	0.70
2008	June-Oct	137	7	AbvTrin-Turwar	37.71	SRP	95.3	2.7	2.1	44.1	30.7	13.4	2.59	30.35	0.80
2005	June-Oct	142	7A	AbvTrin-Turwar	36.71	SRP	96.9	0.0	3.1	38.0	31.5	6.5	1.25	17.20	0.47
2007	June-Oct	142	7A	AbvTrin-Turwar	36.71	SRP	97.9	0.0	2.1	46.9	36.6	10.3	1.97	21.95	0.60
2008	June-Oct	137	7A	AbvTrin-Turwar	36.71	SRP	97.8	0.0	2.2	41.9	30.7	11.1	2.22	26.61	0.73
2005	June-Oct	142	4	IG-Seiad	61.15	PP	89.3	8.6	2.1	12.7	12.2	0.5	0.06	4.14	0.07
2006	June-Oct	142	4	IG-Seiad	61.15	PP	83.1	14.8	2.1	21.3	23.8	-2.5	-0.29	-11.87	-0.19
2007	June-Oct	142	4	IG-Seiad	61.15	PP	94.8	4.0	1.2	17.2	16.2	1.0	0.11	5.77	0.09
2008	June-Oct	137	4	IG-Seiad	61.15	PP	92.2	5.6	2.1	16.1	17.8	-1.7	-0.20	-10.53	-0.17
2005	June-Oct	142	4+5	IG-Orleans	130.61	PP	75.4	11.8	12.8	15.0	16.6	-1.5	-0.08	-10.22	-0.08
2006	June-Oct	142	4+5	IG-Orleans	130.61	PP	79.6	14.5	5.9	7.7	9.7	-2.0	-0.11	-25.31	-0.19
2007	June-Oct	142	4+5	IG-Orleans	130.61	PP	85.1	8.9	6.0	19.2	23.4	-4.2	-0.23	-21.99	-0.17
2008	June-Oct	137	4+5	IG-Orleans	130.61	PP	83.0	9.4	7.6	17.9	16.5	1.3	0.07	7.32	0.06
2005	June-Oct	142	4+5+6	IG-AbvTrin	146.23	PP	73.2	11.5	15.3	15.5	16.5	-1.1	-0.05	-6.88	-0.05
2007	June-Oct	142	4+5+6	IG-AbvTrin	146.23	PP	83.5	8.7	7.8	19.6	22.3	-2.7	-0.13	-13.90	-0.10
2008	June-Oct	137	4+5+6	IG-AbvTrin	146.23	PP	81.4	9.2	9.3	18.2	15.9	2.3	0.12	12.68	0.09

Year	Season	Days	Reach Number	Reach Name	Miles	Parameter	Inflow Load				Outflow Load (MT)	Retention			
							% of Total Inflow			MT					
							Mainstem	Gaged Tribs	Ungaged Tribs	Total Inflow Load		MT	kg/day/mi	%	%/mi
2005	June-Oct	142	4+5+6+7	IG-Turwar	183.94	PP	52.3	33.5	14.2	21.7	28.9	-7.3	-0.28	-33.53	-0.18
2007	June-Oct	142	4+5+6+7	IG-Turwar	183.94	PP	72.9	17.7	9.4	22.4	37.7	-15.3	-0.58	-68.04	-0.37
2008	June-Oct	137	4+5+6+7	IG-Turwar	183.94	PP	68.0	21.7	10.3	21.8	22.7	-0.9	-0.04	-4.11	-0.02
2008	June-Oct	137	4A	IG-Walker	33.73	PP	96.6	2.0	1.4	15.3	19.4	-4.0	-0.87	-26.14	-0.78
2008	June-Oct	137	4B	Walker-Seiad	27.42	PP	96.4	3.0	0.6	20.1	17.8	2.3	0.62	11.55	0.42
2005	June-Oct	142	5	Seiad-Orlean	69.46	PP	83.8	4.7	11.5	14.5	16.6	-2.1	-0.21	-14.21	-0.20
2006	June-Oct	142	5	Seiad-Orlean	69.46	PP	88.5	6.8	4.7	26.9	36.9	-10.0	-1.02	-37.19	-0.54
2007	June-Oct	142	5	Seiad-Orlean	69.46	PP	89.2	5.6	5.2	18.2	23.4	-5.2	-0.53	-28.66	-0.41
2008	June-Oct	137	5	Seiad-Orlean	69.46	PP	90.9	3.9	5.2	19.5	16.5	3.0	0.32	15.34	0.22
2005	June-Oct	142	6	Orleans-AbvTrin	15.62	PP	97.4	0.0	2.6	17.0	16.5	0.5	0.21	2.77	0.18
2007	June-Oct	142	6	Orleans-AbvTrin	15.62	PP	98.4	0.0	1.6	23.8	22.3	1.5	0.68	6.31	0.40
2008	June-Oct	137	6	Orleans-AbvTrin	15.62	PP	98.0	0.0	2.0	16.9	15.9	1.0	0.47	5.93	0.38
2005	June-Oct	142	6A	Orl-AbvTrin	16.62	PP	73.6	24.4	2.0	22.5	23.2	-0.7	-0.29	-3.02	-0.18
2007	June-Oct	142	6A	Orl-AbvTrin	16.62	PP	89.9	8.7	1.4	26.1	24.3	1.8	0.75	6.75	0.41
2008	June-Oct	137	6A	Orl-AbvTrin	16.62	PP	82.9	15.3	1.7	20.0	21.8	-1.9	-0.82	-9.34	-0.56
2005	June-Oct	142	7	AbvTrin-Turwar	37.71	PP	72.8	24.2	3.1	22.7	28.9	-6.2	-1.16	-27.27	-0.72
2007	June-Oct	142	7	AbvTrin-Turwar	37.71	PP	88.7	9.0	2.3	25.1	37.7	-12.5	-2.34	-49.86	-1.32
2008	June-Oct	137	7	AbvTrin-Turwar	37.71	PP	81.5	15.7	2.8	19.5	22.7	-3.2	-0.62	-16.43	-0.44
2005	June-Oct	142	7A	AbvTrin-Turwar	36.71	PP	97.1	0.0	2.9	23.9	28.9	-5.1	-0.97	-21.14	-0.58
2007	June-Oct	142	7A	AbvTrin-Turwar	36.71	PP	97.6	0.0	2.4	24.9	37.7	-12.8	-2.45	-51.42	-1.40
2008	June-Oct	137	7A	AbvTrin-Turwar	36.71	PP	97.6	0.0	2.4	22.4	22.7	-0.3	-0.07	-1.52	-0.04
2005	June-Oct	142	4	IG-Seiad	61.15	ON	88.3	10.4	1.3	289.8	349.5	-59.7	-6.88	-20.61	-0.34
2006	June-Oct	142	4	IG-Seiad	61.15	ON	89.2	9.0	1.8	361.2	352.6	8.6	0.99	2.38	0.04
2007	June-Oct	142	4	IG-Seiad	61.15	ON	95.8	3.3	0.8	334.6	283.7	50.8	5.85	15.20	0.25
2008	June-Oct	137	4	IG-Seiad	61.15	ON	93.9	4.4	1.7	287.3	275.0	12.3	1.47	4.29	0.07
2006	June-Oct	142	4+5	IG-Orleans	130.61	ON	84.5	11.4	4.1	158.1	140.6	17.5	0.94	11.07	0.08
2007	June-Oct	142	4+5	IG-Orleans	130.61	ON	90.3	5.1	4.6	354.9	315.3	39.6	2.13	11.15	0.09
2008	June-Oct	137	4+5	IG-Orleans	130.61	ON	86.1	7.8	6.1	313.6	267.1	46.6	2.60	14.85	0.11
2007	June-Oct	142	4+5+6	IG-AbvTrin	146.23	ON	89.0	5.0	6.0	360.1	310.7	49.4	2.38	13.73	0.09
2008	June-Oct	137	4+5+6	IG-AbvTrin	146.23	ON	84.7	7.7	7.5	318.5	267.3	51.2	2.56	16.07	0.11
2007	June-Oct	142	4+5+6+7	IG-Turwar	183.94	ON	81.3	11.2	7.5	394.3	360.2	34.1	1.31	8.65	0.05
2008	June-Oct	137	4+5+6+7	IG-Turwar	183.94	ON	77.2	13.7	9.1	349.7	289.5	60.2	2.39	17.21	0.09
2008	June-Oct	137	4A	IG-Walker	33.73	ON	96.3	2.6	1.1	280.4	303.2	-22.8	-4.94	-8.14	-0.24
2008	June-Oct	137	4B	Walker-Seiad	27.42	ON	97.8	1.7	0.6	310.2	275.0	35.2	9.36	11.33	0.41
2006	June-Oct	142	5	Seiad-Orlean	69.46	ON	92.2	3.1	4.7	382.6	384.0	-1.4	-0.15	-0.37	-0.01
2007	June-Oct	142	5	Seiad-Orlean	69.46	ON	93.3	2.3	4.4	304.0	315.3	-11.3	-1.14	-3.71	-0.05
2008	June-Oct	137	5	Seiad-Orlean	69.46	ON	91.3	4.0	4.8	301.3	267.1	34.3	3.60	11.37	0.16
2007	June-Oct	142	6	Orleans-AbvTrin	15.62	ON	98.4	0.0	1.6	320.5	310.7	9.9	4.45	3.08	0.20
2008	June-Oct	137	6	Orleans-AbvTrin	15.62	ON	98.2	0.0	1.8	271.9	267.3	4.6	2.15	1.69	0.11
2007	June-Oct	142	6A	Orl-AbvTrin	16.62	ON	91.0	7.5	1.5	346.4	333.6	12.8	5.43	3.70	0.22
2008	June-Oct	137	6A	Orl-AbvTrin	16.62	ON	90.4	8.0	1.6	295.4	292.8	2.6	1.15	0.89	0.05
2007	June-Oct	142	7	AbvTrin-Turwar	37.71	ON	90.1	7.5	2.4	344.8	360.2	-15.3	-2.86	-4.45	-0.12
2008	June-Oct	137	7	AbvTrin-Turwar	37.71	ON	89.6	7.9	2.6	298.5	289.5	9.0	1.74	3.02	0.08
2007	June-Oct	142	7A	AbvTrin-Turwar	36.71	ON	97.6	0.0	2.4	341.9	360.2	-18.3	-3.51	-5.35	-0.15
2008	June-Oct	137	7A	AbvTrin-Turwar	36.71	ON	97.4	0.0	2.6	300.5	289.5	11.0	2.18	3.66	0.10
2007	July-Sept	92	1	Keno-Copco	26.92	TP	92.0	0.0	8.0	52.8	49.5	3.3	1.33	6.26	0.23
2008	July-Sept	92	1	Keno-Copco	26.92	TP	92.4	0.0	7.6	51.7	49.3	2.4	0.98	4.68	0.17

Year	Season	Days	Reach Number	Reach Name	Miles	Parameter	Inflow Load				Outflow Load (MT)	Retention			
							% of Total Inflow			MT					
							Mainstem	Gaged Tribs	Ungaged Tribs	Total Inflow Load		MT	kg/day /mi	%	%/mi
2005	July-Sept	92	4	IG-Seiad	61.15	TP	93.4	6.1	0.6	36.4	33.7	2.7	0.48	7.43	0.12
2006	July-Sept	92	4	IG-Seiad	61.15	TP	89.6	9.3	1.1	41.3	35.7	5.6	1.00	13.67	0.22
2007	July-Sept	92	4	IG-Seiad	61.15	TP	95.8	3.7	0.4	45.0	40.0	5.0	0.89	11.14	0.18
2008	July-Sept	92	4	IG-Seiad	61.15	TP	96.0	3.2	0.8	41.5	37.8	3.7	0.66	9.00	0.15
2005	July-Sept	92	4+5	IG-Orleans	130.61	TP	86.6	7.2	6.3	39.2	34.2	5.0	0.42	12.79	0.10
2006	July-Sept	92	4+5	IG-Orleans	130.61	TP	86.6	10.0	3.4	28.5	26.9	1.7	0.14	5.91	0.05
2007	July-Sept	92	4+5	IG-Orleans	130.61	TP	92.2	4.6	3.2	46.7	37.0	9.7	0.81	20.74	0.16
2008	July-Sept	92	4+5	IG-Orleans	130.61	TP	92.0	4.6	3.4	43.4	32.8	10.6	0.88	24.36	0.19
2005	July-Sept	92	4+5+6	IG-AbvTrin	146.23	TP	85.7	7.1	7.3	39.6	30.3	9.3	0.69	23.48	0.16
2007	July-Sept	92	4+5+6	IG-AbvTrin	146.23	TP	91.5	4.5	4.0	47.1	37.8	9.3	0.69	19.79	0.14
2008	July-Sept	92	4+5+6	IG-AbvTrin	146.23	TP	91.1	4.5	4.3	43.8	32.5	11.3	0.84	25.80	0.18
2005	July-Sept	92	4+5+6+7	IG-Turwar	183.94	TP	79.4	12.2	8.3	42.7	27.9	14.9	0.88	34.75	0.19
2007	July-Sept	92	4+5+6+7	IG-Turwar	183.94	TP	87.7	7.3	5.0	49.1	39.4	9.7	0.57	19.79	0.11
2008	July-Sept	92	4+5+6+7	IG-Turwar	183.94	TP	86.2	8.3	5.5	46.3	28.3	17.9	1.06	38.75	0.21
2008	July-Sept	92	4A	IG-Walker	33.73	TP	96.6	2.9	0.5	41.3	43.2	-1.9	-0.62	-4.69	-0.14
2008	July-Sept	92	4B	Walker-Seiad	27.42	TP	99.4	0.3	0.3	43.5	37.8	5.7	2.25	13.06	0.48
2005	July-Sept	92	5	Seiad-Orlean	69.46	TP	92.2	1.6	6.1	36.5	34.2	2.3	0.36	6.34	0.09
2006	July-Sept	92	5	Seiad-Orlean	69.46	TP	94.0	2.1	3.8	37.9	40.3	-2.3	-0.36	-6.12	-0.09
2007	July-Sept	92	5	Seiad-Orlean	69.46	TP	95.7	1.1	3.2	41.7	37.0	4.7	0.73	11.23	0.16
2008	July-Sept	92	5	Seiad-Orlean	69.46	TP	95.4	1.7	2.9	39.6	32.8	6.8	1.07	17.22	0.25
2005	July-Sept	92	6	Orleans-AbvTrin	15.62	TP	98.8	0.0	1.2	34.6	30.3	4.3	2.99	12.40	0.79
2007	July-Sept	92	6	Orleans-AbvTrin	15.62	TP	99.0	0.0	1.0	37.4	37.8	-0.4	-0.26	-1.00	-0.06
2008	July-Sept	92	6	Orleans-AbvTrin	15.62	TP	98.8	0.0	1.2	33.2	32.5	0.7	0.51	2.20	0.14
2005	July-Sept	92	6A	Orl-AbvTrin	16.62	TP	92.3	6.5	1.2	37.0	29.2	7.9	5.16	21.29	1.28
2007	July-Sept	92	6A	Orl-AbvTrin	16.62	TP	95.3	3.7	1.0	38.9	38.5	0.4	0.26	1.02	0.06
2008	July-Sept	92	6A	Orl-AbvTrin	16.62	TP	93.5	5.3	1.2	35.1	33.7	1.3	0.88	3.82	0.23
2005	July-Sept	92	7	AbvTrin-Turwar	37.71	TP	90.7	7.3	2.0	33.4	27.9	5.5	1.60	16.59	0.44
2007	July-Sept	92	7	AbvTrin-Turwar	37.71	TP	94.9	3.6	1.5	39.8	39.4	0.4	0.12	1.02	0.03
2008	July-Sept	92	7	AbvTrin-Turwar	37.71	TP	92.8	5.3	1.8	35.0	28.3	6.6	1.91	18.98	0.50
2005	July-Sept	92	7A	AbvTrin-Turwar	36.71	TP	97.7	0.0	2.3	29.8	27.9	2.0	0.58	6.55	0.18
2007	July-Sept	92	7A	AbvTrin-Turwar	36.71	TP	98.5	0.0	1.5	39.1	39.4	-0.4	-0.11	-0.93	-0.03
2008	July-Sept	92	7A	AbvTrin-Turwar	36.71	TP	98.1	0.0	1.9	34.4	28.3	6.0	1.78	17.54	0.48
2007	July-Sept	92	1	Keno-Copco	26.92	TN	96.9	0.0	3.1	477.8	418.2	59.6	24.06	12.47	0.46
2008	July-Sept	92	1	Keno-Copco	26.92	TN	97.2	0.0	2.8	487.4	425.0	62.3	25.17	12.79	0.48
2005	July-Sept	92	4	IG-Seiad	61.15	TN	94.9	4.5	0.6	238.5	270.3	-31.7	-5.64	-13.29	-0.22
2006	July-Sept	92	4	IG-Seiad	61.15	TN	91.0	7.7	1.3	224.9	172.4	52.5	9.33	23.35	0.38
2007	July-Sept	92	4	IG-Seiad	61.15	TN	97.6	1.9	0.5	262.6	194.7	67.9	12.07	25.87	0.42
2008	July-Sept	92	4	IG-Seiad	61.15	TN	96.3	2.8	0.9	253.5	199.4	54.1	9.61	21.33	0.35
2006	July-Sept	92	4+5	IG-Orleans	130.61	TN	85.2	10.2	4.6	138.6	106.9	31.8	2.64	22.91	0.18
2007	July-Sept	92	4+5	IG-Orleans	130.61	TN	93.6	2.8	3.6	273.8	183.6	90.2	7.51	32.95	0.25
2008	July-Sept	92	4+5	IG-Orleans	130.61	TN	91.2	5.2	3.6	267.7	155.2	112.5	9.37	42.03	0.32
2007	July-Sept	92	4+5+6	IG-AbvTrin	146.23	TN	92.8	2.8	4.5	276.3	178.3	97.9	7.28	35.44	0.24
2008	July-Sept	92	4+5+6	IG-AbvTrin	146.23	TN	90.3	5.1	4.6	270.4	152.5	117.8	8.76	43.58	0.30
2007	July-Sept	92	4+5+6+7	IG-Turwar	183.94	TN	86.6	7.9	5.5	296.0	205.9	90.1	5.32	30.44	0.17
2008	July-Sept	92	4+5+6+7	IG-Turwar	183.94	TN	84.5	9.8	5.7	288.8	176.6	112.1	6.63	38.83	0.21
2008	July-Sept	92	4A	IG-Walker	33.73	TN	98.1	1.4	0.6	248.9	231.6	17.3	5.57	6.94	0.21
2008	July-Sept	92	4B	Walker-Seiad	27.42	TN	98.0	1.6	0.3	236.2	199.4	36.8	14.59	15.58	0.57

Year	Season	Days	Reach Number	Reach Name	Miles	Parameter	Inflow Load				Outflow Load (MT)	Retention			
							% of Total Inflow			MT		MT	kg/day/mi	% /mi	
							Mainstem	Gaged Tribs	Ungaged Tribs	Total Inflow Load					
2006	July-Sept	92	5	Seiad-Orlean	69.46	TN	91.5	3.5	5.0	188.5	174.0	14.5	2.27	7.71	0.11
2007	July-Sept	92	5	Seiad-Orlean	69.46	TN	94.5	1.3	4.2	205.9	183.6	22.3	3.49	10.83	0.16
2008	July-Sept	92	5	Seiad-Orlean	69.46	TN	93.4	3.1	3.5	213.6	155.2	58.4	9.15	27.36	0.39
2007	July-Sept	92	6	Orleans-AbvTrin	15.62	TN	98.7	0.0	1.3	186.0	178.3	7.7	5.34	4.13	0.26
2008	July-Sept	92	6	Orleans-AbvTrin	15.62	TN	98.3	0.0	1.7	157.8	152.5	5.3	3.68	3.35	0.21
2007	July-Sept	92	6A	Orl-AbvTrin	16.62	TN	90.9	7.9	1.2	201.9	190.4	11.5	7.50	5.68	0.34
2008	July-Sept	92	6A	Orl-AbvTrin	16.62	TN	90.2	8.3	1.5	172.1	160.6	11.5	7.54	6.70	0.40
2007	July-Sept	92	7	AbvTrin-Turwar	37.71	TN	90.0	8.0	1.9	198.1	205.9	-7.8	-2.26	-3.95	-0.10
2008	July-Sept	92	7	AbvTrin-Turwar	37.71	TN	89.2	8.4	2.4	171.0	176.6	-5.7	-1.64	-3.32	-0.09
2007	July-Sept	92	7A	AbvTrin-Turwar	36.71	TN	98.0	0.0	2.0	194.3	205.9	-11.6	-3.44	-5.98	-0.16
2008	July-Sept	92	7A	AbvTrin-Turwar	36.71	TN	97.5	0.0	2.5	164.7	176.6	-11.9	-3.53	-7.23	-0.20
2005	July-Sept	92	4	IG-Seiad	61.15	TIN	96.4	3.3	0.4	68.9	34.4	34.6	6.14	50.15	0.82
2006	July-Sept	92	4	IG-Seiad	61.15	TIN	91.0	8.1	1.0	56.4	24.4	31.9	5.67	56.64	0.93
2007	July-Sept	92	4	IG-Seiad	61.15	TIN	98.9	0.6	0.4	51.6	21.6	30.0	5.33	58.10	0.95
2008	July-Sept	92	4	IG-Seiad	61.15	TIN	96.9	2.6	0.5	84.1	43.9	40.1	7.14	47.74	0.78
2005	July-Sept	92	4+5	IG-Orleans	130.61	TIN	90.9	5.0	4.0	73.1	15.3	57.8	4.81	79.06	0.61
2006	July-Sept	92	4+5	IG-Orleans	130.61	TIN	91.0	4.3	4.8	24.6	3.5	21.2	1.76	85.96	0.66
2007	July-Sept	92	4+5	IG-Orleans	130.61	TIN	95.1	1.5	3.4	53.7	6.4	47.4	3.94	88.16	0.67
2008	July-Sept	92	4+5	IG-Orleans	130.61	TIN	94.4	3.5	2.1	86.3	10.4	75.9	6.32	87.94	0.67
2005	July-Sept	92	4+5+6	IG-AbvTrin	146.23	TIN	90.3	5.0	4.7	73.6	13.3	60.2	4.48	81.87	0.56
2007	July-Sept	92	4+5+6	IG-AbvTrin	146.23	TIN	94.3	1.5	4.2	54.2	5.7	48.5	3.60	89.44	0.61
2008	July-Sept	92	4+5+6	IG-AbvTrin	146.23	TIN	93.9	3.5	2.6	86.8	6.9	79.9	5.94	92.09	0.63
2005	July-Sept	92	4+5+6+7	IG-Turwar	183.94	TIN	82.3	12.4	5.3	80.7	28.4	52.3	3.09	64.83	0.35
2007	July-Sept	92	4+5+6+7	IG-Turwar	183.94	TIN	89.1	5.7	5.2	57.3	22.2	35.1	2.07	61.22	0.33
2008	July-Sept	92	4+5+6+7	IG-Turwar	183.94	TIN	90.3	6.3	3.4	90.2	20.2	70.0	4.14	77.62	0.42
2008	July-Sept	92	4A	IG-Walker	33.73	TIN	99.6	0.1	0.3	81.8	66.2	15.6	5.03	19.09	0.57
2008	July-Sept	92	4B	Walker-Seiad	27.42	TIN	96.7	3.1	0.2	68.5	43.9	24.5	9.72	35.82	1.31
2005	July-Sept	92	5	Seiad-Orlean	69.46	TIN	89.3	3.7	7.0	38.5	15.3	23.2	3.63	60.25	0.87
2006	July-Sept	92	5	Seiad-Orlean	69.46	TIN	89.9	3.7	6.4	27.2	13.5	13.7	2.14	50.39	0.73
2007	July-Sept	92	5	Seiad-Orlean	69.46	TIN	91.1	2.1	6.7	23.7	6.4	17.4	2.72	73.19	1.05
2008	July-Sept	92	5	Seiad-Orlean	69.46	TIN	95.2	1.8	3.0	46.2	10.4	35.8	5.59	77.44	1.11
2005	July-Sept	92	6	Orleans-AbvTrin	15.62	TIN	96.7	0.0	3.3	15.8	13.3	2.5	1.72	15.66	1.00
2007	July-Sept	92	6	Orleans-AbvTrin	15.62	TIN	93.4	0.0	6.6	6.8	5.7	1.1	0.76	16.02	1.03
2008	July-Sept	92	6	Orleans-AbvTrin	15.62	TIN	95.5	0.0	4.5	10.9	6.9	4.0	2.81	36.98	2.37
2005	July-Sept	92	6A	Orl-AbvTrin	16.62	TIN	69.1	28.5	2.3	22.1	24.2	-2.0	-1.33	-9.20	-0.55
2007	July-Sept	92	6A	Orl-AbvTrin	16.62	TIN	68.9	26.2	4.9	9.2	7.9	1.3	0.85	14.13	0.85
2008	July-Sept	92	6A	Orl-AbvTrin	16.62	TIN	76.6	19.8	3.6	13.6	9.9	3.7	2.42	27.19	1.64
2005	July-Sept	92	7	AbvTrin-Turwar	37.71	TIN	65.2	30.8	4.0	20.5	28.4	-7.9	-2.28	-38.62	-1.02
2007	July-Sept	92	7	AbvTrin-Turwar	37.71	TIN	64.6	27.4	8.0	8.9	22.2	-13.4	-3.85	-150.87	-4.00
2008	July-Sept	92	7	AbvTrin-Turwar	37.71	TIN	66.5	26.0	7.4	10.3	20.2	-9.9	-2.85	-95.67	-2.54
2005	July-Sept	92	7A	AbvTrin-Turwar	36.71	TIN	96.7	0.0	3.3	25.0	28.4	-3.4	-1.01	-13.59	-0.37
2007	July-Sept	92	7A	AbvTrin-Turwar	36.71	TIN	91.8	0.0	8.2	8.6	22.2	-13.6	-4.02	-157.08	-4.28
2008	July-Sept	92	7A	AbvTrin-Turwar	36.71	TIN	92.8	0.0	7.2	10.7	20.2	-9.5	-2.82	-89.47	-2.44
2005	July-Sept	92	4	IG-Seiad	61.15	SRP	92.7	6.8	0.5	28.1	26.1	2.0	0.35	7.01	0.11
2006	July-Sept	92	4	IG-Seiad	61.15	SRP	90.5	8.7	0.9	33.1	26.8	6.3	1.11	18.92	0.31
2007	July-Sept	92	4	IG-Seiad	61.15	SRP	95.2	4.4	0.4	31.8	28.9	2.9	0.51	9.03	0.15
2008	July-Sept	92	4	IG-Seiad	61.15	SRP	95.9	3.4	0.7	31.0	28.9	2.1	0.38	6.82	0.11

Year	Season	Days	Reach Number	Reach Name	Miles	Parameter	Inflow Load				Outflow Load (MT)	Retention			
							% of Total Inflow			MT		MT	kg/day /mi	% /mi	
							Mainstem	Gaged Tribs	Un-gaged Tribs	Total Inflow Load					
2005	July-Sept	92	4+5	IG-Orleans	130.61	SRP	87.6	7.2	5.3	29.7	25.2	4.5	0.38	15.25	0.12
2006	July-Sept	92	4+5	IG-Orleans	130.61	SRP	88.8	8.5	2.7	23.0	19.6	3.4	0.29	14.91	0.11
2007	July-Sept	92	4+5	IG-Orleans	130.61	SRP	92.5	4.5	3.0	32.7	25.5	7.1	0.59	21.82	0.17
2008	July-Sept	92	4+5	IG-Orleans	130.61	SRP	92.8	4.2	3.0	32.0	24.0	8.0	0.67	25.00	0.19
2005	July-Sept	92	4+5+6	IG-AbvTrin	146.23	SRP	86.8	7.1	6.1	30.0	21.8	8.2	0.61	27.29	0.19
2007	July-Sept	92	4+5+6	IG-AbvTrin	146.23	SRP	91.9	4.5	3.7	32.9	26.4	6.5	0.48	19.75	0.14
2008	July-Sept	92	4+5+6	IG-AbvTrin	146.23	SRP	92.1	4.2	3.7	32.3	23.5	8.8	0.65	27.20	0.19
2005	July-Sept	92	4+5+6+7	IG-Turwar	183.94	SRP	83.8	8.9	7.3	31.1	15.4	15.7	0.93	50.35	0.27
2007	July-Sept	92	4+5+6+7	IG-Turwar	183.94	SRP	89.8	5.5	4.7	33.7	18.7	14.9	0.88	44.35	0.24
2008	July-Sept	92	4+5+6+7	IG-Turwar	183.94	SRP	89.8	5.4	4.9	33.1	14.9	18.2	1.08	55.05	0.30
2008	July-Sept	92	4A	IG-Walker	33.73	SRP	96.2	3.4	0.4	30.9	32.4	-1.5	-0.49	-4.92	-0.15
2008	July-Sept	92	4B	Walker-Seiad	27.42	SRP	99.7	0.0	0.2	32.5	28.9	3.6	1.44	11.18	0.41
2005	July-Sept	92	5	Seiad-Orlean	69.46	SRP	94.0	0.8	5.1	27.8	25.2	2.6	0.40	9.24	0.13
2006	July-Sept	92	5	Seiad-Orlean	69.46	SRP	95.6	1.1	3.3	28.0	28.4	-0.4	-0.06	-1.37	-0.02
2007	July-Sept	92	5	Seiad-Orlean	69.46	SRP	96.9	0.2	2.8	29.8	25.5	4.3	0.67	14.30	0.21
2008	July-Sept	92	5	Seiad-Orlean	69.46	SRP	96.6	1.0	2.5	29.9	24.0	5.9	0.92	19.70	0.28
2005	July-Sept	92	6	Orleans-AbvTrin	15.62	SRP	98.9	0.0	1.1	25.5	21.8	3.7	2.54	14.35	0.92
2007	July-Sept	92	6	Orleans-AbvTrin	15.62	SRP	99.1	0.0	0.9	25.8	26.4	-0.6	-0.44	-2.44	-0.16
2008	July-Sept	92	6	Orleans-AbvTrin	15.62	SRP	98.9	0.0	1.1	24.3	23.5	0.8	0.54	3.20	0.20
2005	July-Sept	92	6A	Orl-AbvTrin	16.62	SRP	96.5	2.5	1.1	26.1	19.7	6.5	4.22	24.70	1.49
2007	July-Sept	92	6A	Orl-AbvTrin	16.62	SRP	97.6	1.5	0.9	26.2	26.0	0.2	0.11	0.66	0.04
2008	July-Sept	92	6A	Orl-AbvTrin	16.62	SRP	97.2	1.8	1.0	24.7	22.7	2.0	1.30	8.05	0.48
2005	July-Sept	92	7	AbvTrin-Turwar	37.71	SRP	95.3	2.8	1.9	22.9	15.4	7.5	2.15	32.59	0.86
2007	July-Sept	92	7	AbvTrin-Turwar	37.71	SRP	97.2	1.4	1.4	27.2	18.7	8.4	2.43	31.04	0.82
2008	July-Sept	92	7	AbvTrin-Turwar	37.71	SRP	96.5	1.8	1.7	24.3	14.9	9.4	2.72	38.83	1.03
2005	July-Sept	92	7A	AbvTrin-Turwar	36.71	SRP	97.8	0.0	2.2	20.1	15.4	4.7	1.38	23.21	0.63
2007	July-Sept	92	7A	AbvTrin-Turwar	36.71	SRP	98.6	0.0	1.4	26.4	18.7	7.6	2.26	28.95	0.79
2008	July-Sept	92	7A	AbvTrin-Turwar	36.71	SRP	98.2	0.0	1.8	23.1	14.9	8.2	2.44	35.63	0.97
2005	July-Sept	92	4	IG-Seiad	61.15	PP	95.3	3.8	1.0	8.1	7.6	0.5	0.08	5.82	0.10
2006	July-Sept	92	4	IG-Seiad	61.15	PP	86.8	11.2	2.0	8.5	8.7	-0.2	-0.03	-2.17	-0.04
2007	July-Sept	92	4	IG-Seiad	61.15	PP	97.4	2.1	0.5	12.9	10.9	2.1	0.37	15.97	0.26
2008	July-Sept	92	4	IG-Seiad	61.15	PP	96.1	2.6	1.3	10.1	8.9	1.2	0.22	11.99	0.20
2005	July-Sept	92	4+5	IG-Orleans	130.61	PP	82.8	7.3	9.9	9.3	8.9	0.4	0.03	4.27	0.03
2006	July-Sept	92	4+5	IG-Orleans	130.61	PP	78.0	15.5	6.5	5.7	7.2	-1.5	-0.13	-26.85	-0.21
2007	July-Sept	92	4+5	IG-Orleans	130.61	PP	91.2	4.7	4.1	13.8	11.4	2.4	0.20	17.23	0.13
2008	July-Sept	92	4+5	IG-Orleans	130.61	PP	89.1	5.8	5.1	10.9	8.7	2.2	0.18	20.22	0.15
2005	July-Sept	92	4+5+6	IG-AbvTrin	146.23	PP	81.4	7.2	11.4	9.5	8.4	1.1	0.08	11.72	0.08
2007	July-Sept	92	4+5+6	IG-AbvTrin	146.23	PP	90.3	4.7	5.1	14.0	11.4	2.6	0.19	18.29	0.13
2008	July-Sept	92	4+5+6	IG-AbvTrin	146.23	PP	87.9	5.7	6.4	11.0	8.8	2.3	0.17	20.51	0.14
2005	July-Sept	92	4+5+6+7	IG-Turwar	183.94	PP	67.1	21.2	11.6	11.5	12.1	-0.6	-0.03	-5.07	-0.03
2007	July-Sept	92	4+5+6+7	IG-Turwar	183.94	PP	82.7	11.2	6.1	15.2	20.4	-5.1	-0.30	-33.58	-0.18
2008	July-Sept	92	4+5+6+7	IG-Turwar	183.94	PP	76.5	16.0	7.5	12.7	13.1	-0.4	-0.03	-3.44	-0.02
2008	July-Sept	92	4A	IG-Walker	33.73	PP	97.7	1.5	0.8	9.9	11.7	-1.8	-0.57	-17.95	-0.53
2008	July-Sept	92	4B	Walker-Seiad	27.42	PP	98.6	1.0	0.4	11.9	8.9	3.0	1.19	25.20	0.92
2005	July-Sept	92	5	Seiad-Orlean	69.46	PP	86.3	4.2	9.5	8.8	8.9	-0.1	-0.01	-0.84	-0.01
2006	July-Sept	92	5	Seiad-Orlean	69.46	PP	89.3	5.2	5.6	9.8	11.6	-1.9	-0.29	-18.96	-0.27
2007	July-Sept	92	5	Seiad-Orlean	69.46	PP	92.5	3.3	4.2	11.8	11.4	0.3	0.05	2.68	0.04

Year	Season	Days	Reach Number	Reach Name	Miles	Parameter	Inflow Load				Outflow Load (MT)	Retention			
							% of Total Inflow			MT		MT	kg/day /mi	%	% /mi
							Mainstem	Gaged Tribs	Unengaged Tribs	Total Inflow Load					
2008	July-Sept	92	5	Seiad-Orlean	69.46	PP	91.8	3.8	4.5	9.7	8.7	1.0	0.16	10.24	0.15
2005	July-Sept	92	6	Orleans-AbvTrin	15.62	PP	98.2	0.0	1.8	9.1	8.4	0.7	0.50	7.86	0.50
2007	July-Sept	92	6	Orleans-AbvTrin	15.62	PP	98.8	0.0	1.2	11.6	11.4	0.2	0.12	1.50	0.10
2008	July-Sept	92	6	Orleans-AbvTrin	15.62	PP	98.3	0.0	1.7	8.8	8.8	0.1	0.04	0.71	0.05
2005	July-Sept	92	6A	Orl-AbvTrin	16.62	PP	82.2	16.3	1.5	10.8	9.4	1.5	0.96	13.56	0.82
2007	July-Sept	92	6A	Orl-AbvTrin	16.62	PP	90.6	8.3	1.1	12.6	12.3	0.3	0.20	2.36	0.14
2008	July-Sept	92	6A	Orl-AbvTrin	16.62	PP	84.9	13.7	1.5	10.2	11.0	-0.8	-0.52	-7.78	-0.47
2005	July-Sept	92	7	AbvTrin-Turwar	37.71	PP	80.6	17.0	2.5	10.4	12.1	-1.7	-0.49	-16.31	-0.43
2007	July-Sept	92	7	AbvTrin-Turwar	37.71	PP	90.0	8.3	1.7	12.7	20.4	-7.7	-2.21	-60.49	-1.60
2008	July-Sept	92	7	AbvTrin-Turwar	37.71	PP	84.3	13.4	2.3	10.4	13.1	-2.7	-0.78	-25.94	-0.69
2005	July-Sept	92	7A	AbvTrin-Turwar	36.71	PP	97.3	0.0	2.7	9.6	12.1	-2.4	-0.72	-25.45	-0.69
2007	July-Sept	92	7A	AbvTrin-Turwar	36.71	PP	98.2	0.0	1.8	12.6	20.4	-7.8	-2.31	-62.09	-1.69
2008	July-Sept	92	7A	AbvTrin-Turwar	36.71	PP	97.9	0.0	2.1	11.3	13.1	-1.8	-0.55	-16.34	-0.45
2005	July-Sept	92	4	IG-Seiad	61.15	ON	93.7	5.7	0.7	170.5	234.3	-63.8	-11.34	-37.44	-0.61
2006	July-Sept	92	4	IG-Seiad	61.15	ON	91.2	7.4	1.4	166.0	142.2	23.8	4.23	14.35	0.23
2007	July-Sept	92	4	IG-Seiad	61.15	ON	97.3	2.2	0.5	209.4	169.7	39.7	7.06	18.96	0.31
2008	July-Sept	92	4	IG-Seiad	61.15	ON	96.0	2.9	1.1	169.1	155.1	14.0	2.49	8.28	0.14
2006	July-Sept	92	4+5	IG-Orleans	130.61	ON	84.1	11.3	4.6	112.8	103.0	9.8	0.81	8.68	0.07
2007	July-Sept	92	4+5	IG-Orleans	130.61	ON	93.2	3.1	3.7	218.5	177.4	41.2	3.43	18.85	0.14
2008	July-Sept	92	4+5	IG-Orleans	130.61	ON	89.7	5.9	4.4	180.9	144.3	36.6	3.05	20.24	0.15
2007	July-Sept	92	4+5+6	IG-AbvTrin	146.23	ON	92.4	3.1	4.5	220.5	171.3	49.2	3.66	22.30	0.15
2008	July-Sept	92	4+5+6	IG-AbvTrin	146.23	ON	88.7	5.8	5.5	183.1	145.9	37.2	2.77	20.32	0.14
2007	July-Sept	92	4+5+6+7	IG-Turwar	183.94	ON	86.4	8.0	5.6	235.8	184.0	51.8	3.06	21.98	0.12
2008	July-Sept	92	4+5+6+7	IG-Turwar	183.94	ON	81.7	11.5	6.8	198.7	157.1	41.6	2.46	20.92	0.11
2008	July-Sept	92	4A	IG-Walker	33.73	ON	97.3	2.0	0.7	166.8	164.7	2.1	0.66	1.24	0.04
2008	July-Sept	92	4B	Walker-Seiad	27.42	ON	98.6	1.0	0.4	167.0	155.1	11.9	4.73	7.15	0.26
2006	July-Sept	92	5	Seiad-Orlean	69.46	ON	91.4	3.7	4.9	155.6	158.9	-3.3	-0.52	-2.15	-0.03
2007	July-Sept	92	5	Seiad-Orlean	69.46	ON	94.9	1.2	3.9	178.8	177.4	1.5	0.23	0.83	0.01
2008	July-Sept	92	5	Seiad-Orlean	69.46	ON	92.9	3.4	3.7	166.9	144.3	22.6	3.54	13.55	0.20
2007	July-Sept	92	6	Orleans-AbvTrin	15.62	ON	98.9	0.0	1.1	179.3	171.3	8.0	5.57	4.46	0.29
2008	July-Sept	92	6	Orleans-AbvTrin	15.62	ON	98.5	0.0	1.5	146.5	145.9	0.6	0.41	0.40	0.03
2007	July-Sept	92	6A	Orl-AbvTrin	16.62	ON	92.6	6.3	1.0	191.5	182.2	9.3	6.09	4.86	0.29
2008	July-Sept	92	6A	Orl-AbvTrin	16.62	ON	90.9	7.7	1.4	158.7	150.0	8.7	5.69	5.49	0.33
2007	July-Sept	92	7	AbvTrin-Turwar	37.71	ON	91.8	6.5	1.7	186.6	184.0	2.6	0.76	1.41	0.04
2008	July-Sept	92	7	AbvTrin-Turwar	37.71	ON	90.3	7.6	2.1	161.5	157.1	4.4	1.26	2.70	0.07
2007	July-Sept	92	7A	AbvTrin-Turwar	36.71	ON	98.3	0.0	1.7	185.3	184.0	1.3	0.39	0.71	0.02
2008	July-Sept	92	7A	AbvTrin-Turwar	36.71	ON	97.8	0.0	2.2	153.4	157.1	-3.8	-1.11	-2.45	-0.07

APPENDIX A4

Scatterplots showing the relationship between reach inflow nutrient concentration and retention for June-October periods

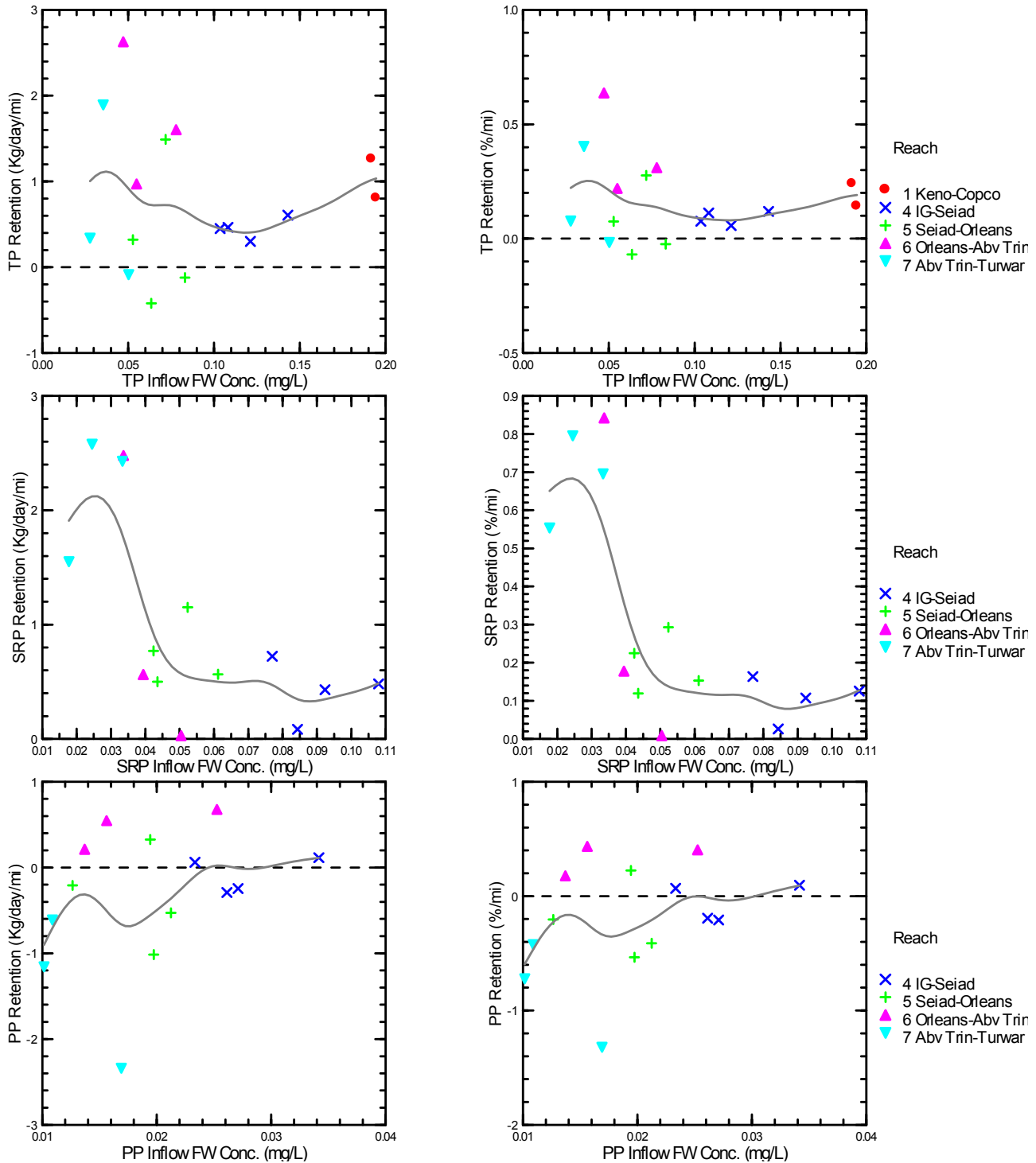


Figure A4-1. Relationship of retention to flow-weighted average inflow concentrations for phosphorus parameters in river reaches for the June-October period. Each data point is a summary of one season/site, providing a comparison between years and sites. DWLS smoother is displayed as a visual aid. See report for similar figure of July-September.

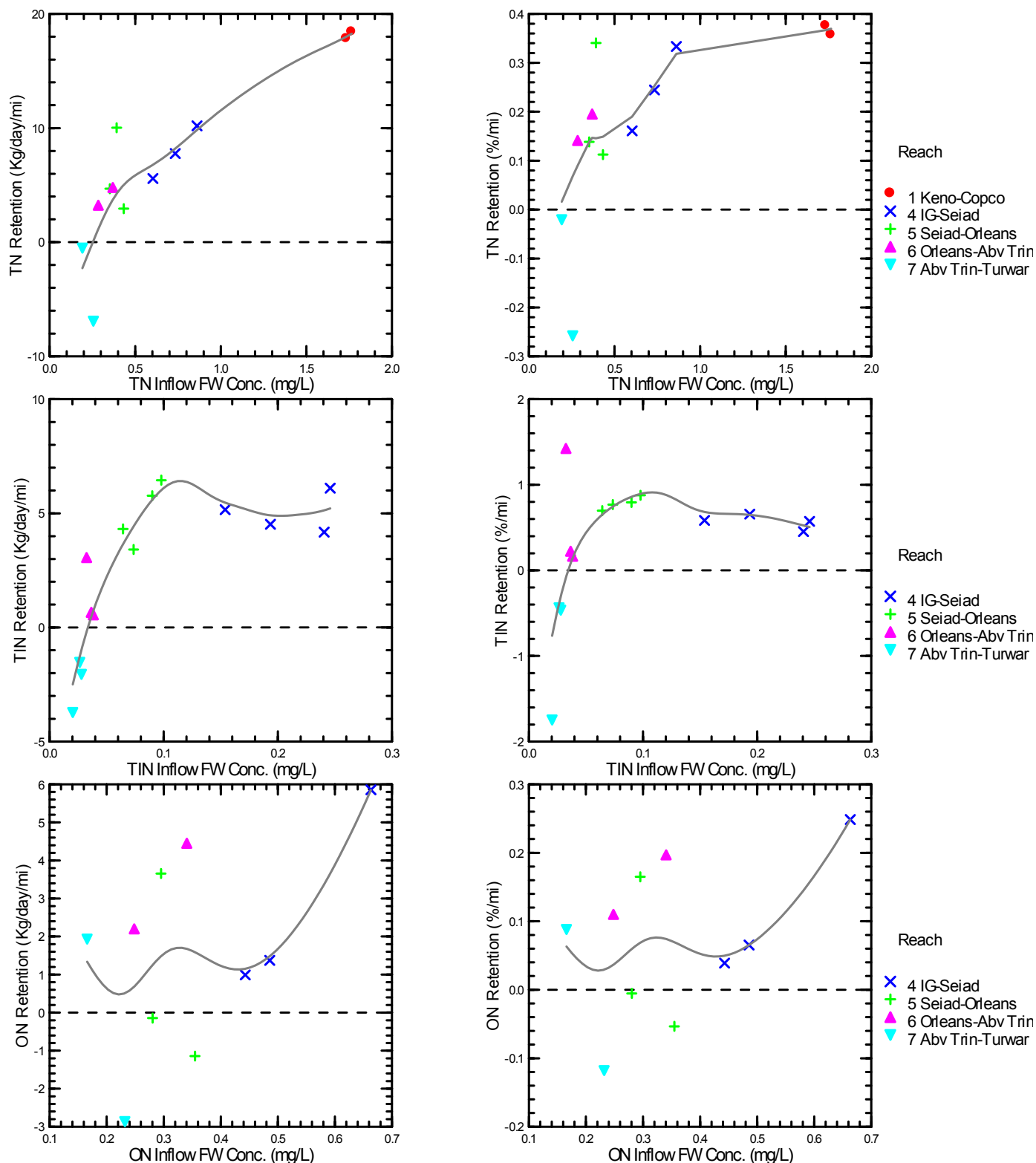


Figure A4-2. Relationship of retention to flow-weighted average inflow concentrations for nitrogen parameters in river reaches for the June-October period. Each data point is a summary of one season/site, providing a comparison between years and sites. DWLS smoother is displayed as a visual aid on all plots except TN relative retention (uses LOWESS smoother). TN and ON data for Reach 4 in 2005 are excluded because that data point appeared to be an outlier (see footnote 5 in report for details). See report for similar figure of July-September.

APPENDIX A5

Charts showing daily time series and summaries of outputs from multiple regression model used to predict concentrations for each station

This appendix is composed of 74 pages of multi-panel graphs, with one page one for each site and parameter used in the calculation of nutrient budgets. Ungaged tributaries are not included because their concentrations were represented by a single long-term average.

The top two time series graph on each page show the measured nutrient concentrations, daily nutrient concentrations predicted by the regression model, and daily flows. Note that the predicted concentrations shown in the top time series graph are not the final daily concentrations used in the nutrient budget, because the graphed values do not include the interpolation of the residuals (which locally stretch predicted concentrations to fit measured concentrations). The bottom time series chart shows the final loads used in the nutrient budget (including the interpolation of residuals). The predicted concentrations were constrained to 50% of minimum observed and 200% of maximum observed to avoid wild extrapolation in winter months with no samples; this does not affect mass balances for the season (June – October and July – September) periods that were actually used in the report.

The bar graphs on the middle/upper-right of the page show annual calendar year summaries of flow.

The bar graph on the lower-right corner of the page compares the results of five algorithms for the prediction of mean daily load for the combined June 1 – October 20 period of 2005-2008. Note that the results shown in the lower-right bar graph include data from every year 2005-2008, but in the report we did not use the results from parameters/sites/years with insufficient data; thus for some parameters/sites/years (i.e. Trinity River TP), the magnitude shown in the chart for the difference between the five loading algorithms is much larger than it would be if years with insufficient data were excluded (i.e. the choice of loading algorithm has much less effect on report's final results than is indicated in these bar graphs for some parameters).

The bottom-left corner of the page shows summary information for the entire June 2005 – October 2008 period including the number of samples, relative standard error, and coefficient of determination (R^2).

Site: KR_abv_Copco

KR_abv_Copco

TN

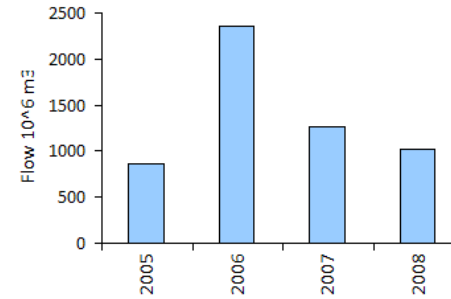
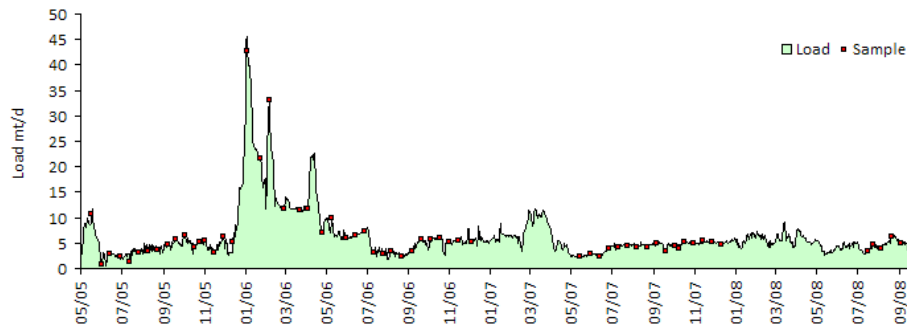
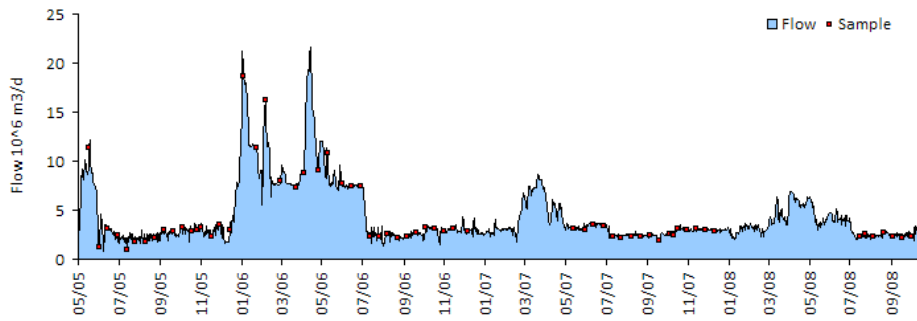
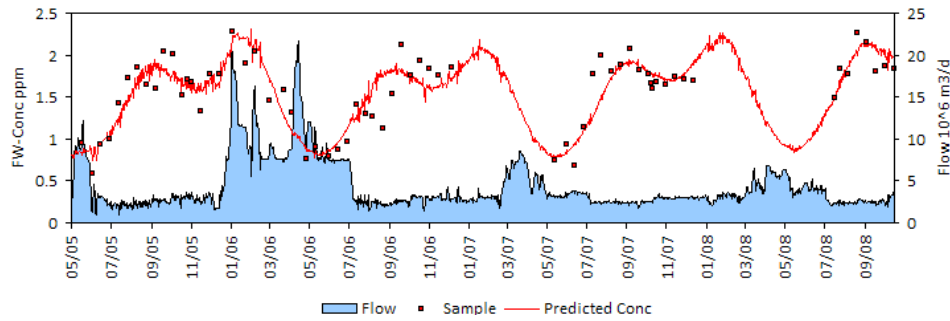
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

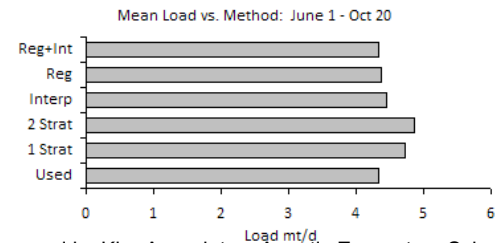
Daily Time Series:

Yearly Time Series:



Site: KR_abv_Copco KR_abv_Copco
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/17/05 10/15/08
 Samples 65
 Method: 5 - Regression + Interpolation

Variable: TN
 Mean Daily Flow 4.347 10⁶ m³/day
 Mean Daily Load 6.32 mt/day
 Flow-Wtd Conc 1.454 ppm
 Relative Std Error 1.8%
 Regression R2 81%
 Regression SE 0.15



Site: KR_abv_Copco

KR_abv_Copco

TP

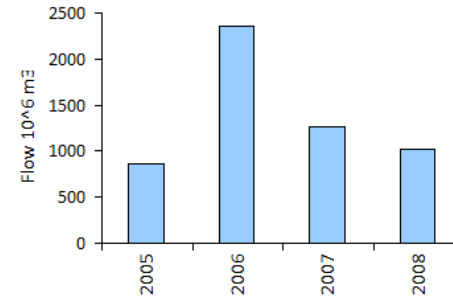
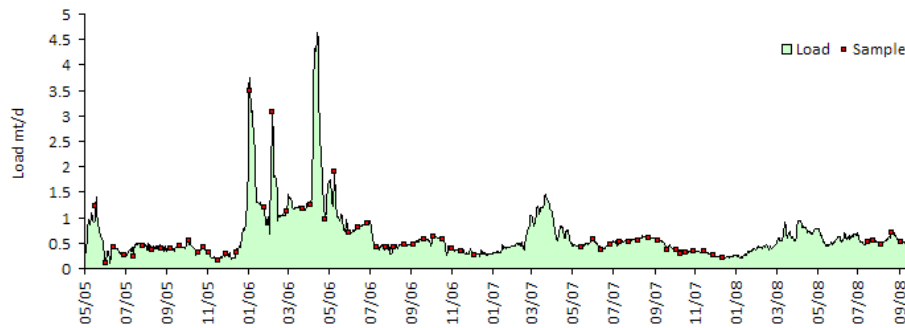
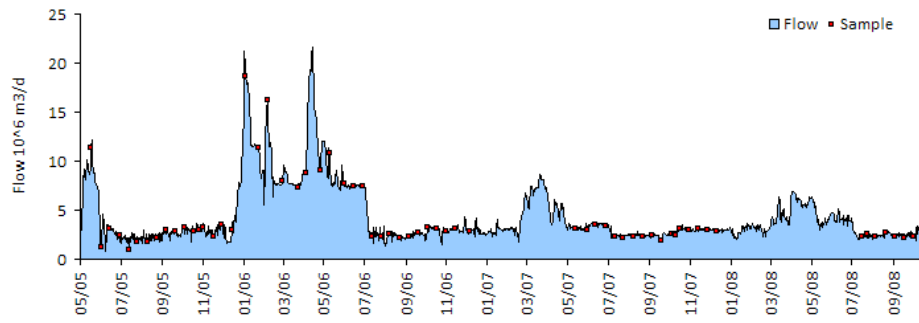
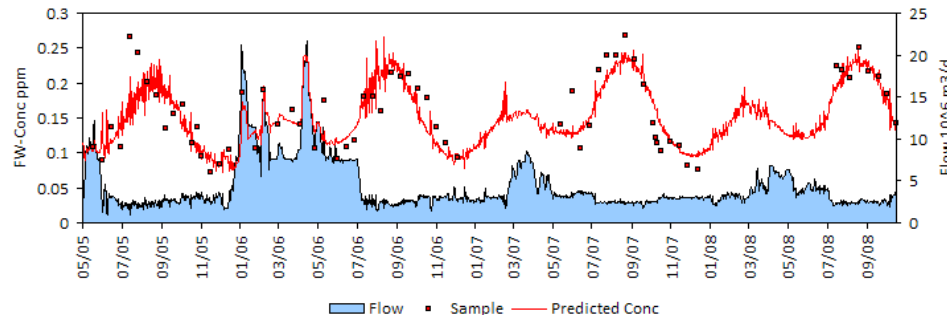
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

Daily Time Series:

Yearly Time Series:



Site: KR_abv_Copco KR_abv_Copco

Output Period 05/01/05 10/15/08

Calibration Period 05/01/05 10/15/08

Sample Dates 05/17/05 10/15/08

Samples 65

Method: 5 - Regression + Interpolation

Variable: TP

Mean Daily Flow 4.347 10⁶ m³/day

Mean Daily Load 0.63 mt/day

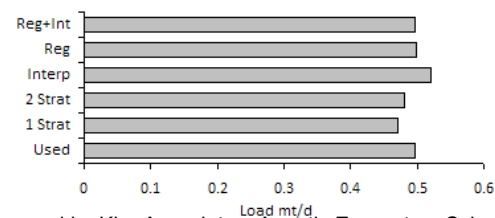
Flow-Wtd Conc 0.145 ppm

Relative Std Error 2.4%

Regression R² 74%

Regression SE 0.19

Mean Load vs. Method: June 1 - Oct 20



Site: KR_abv_Trin

KR_abv_Trin

INORGN

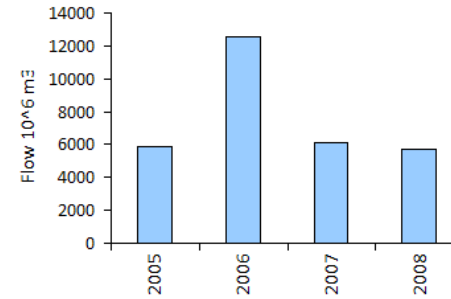
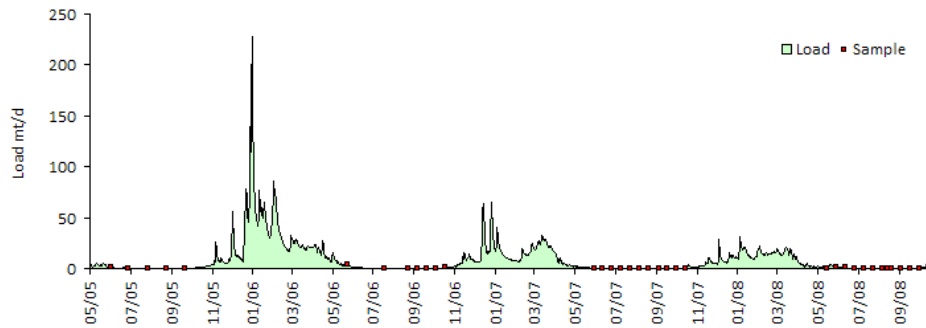
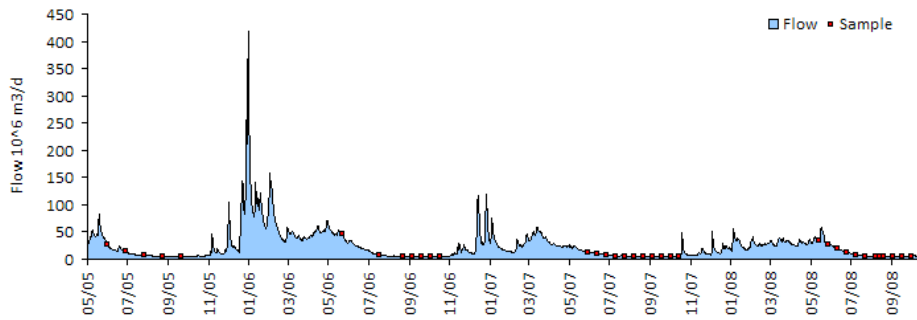
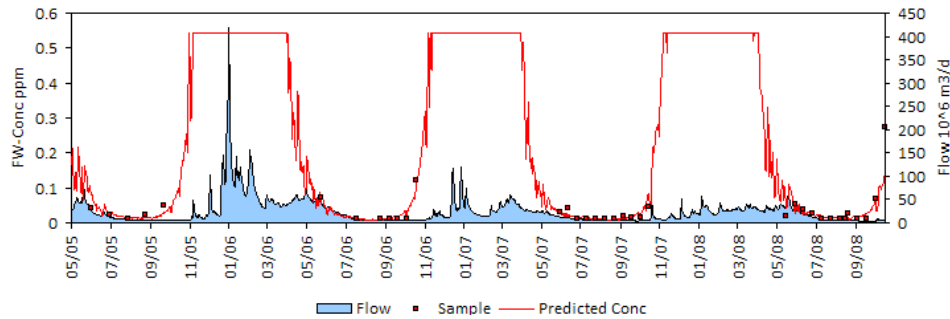
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

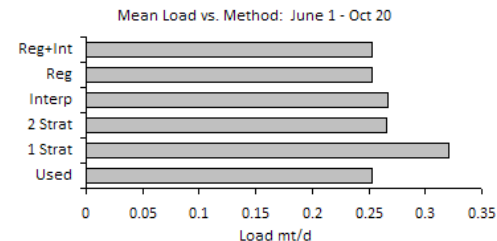
Daily Time Series:

Yearly Time Series:



Site: KR_abv_Trin KR_abv_Trin
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/15/08
 Samples 36
 Method: 5 - Regression + Interpolation

Variable: INORGN
 Mean Daily Flow 23.970 10⁶ m³/day
 Mean Daily Load 8.60 mt/day
 Flow-Wtd Conc 0.359 ppm
 Relative Std Error 15.6%
 Regression R² 68%
 Regression SE 0.57



Site: KR_abv_Trin

KR_abv_Trin

ORGN

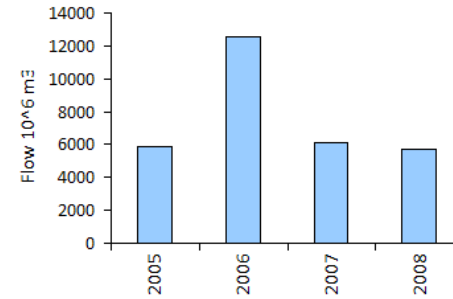
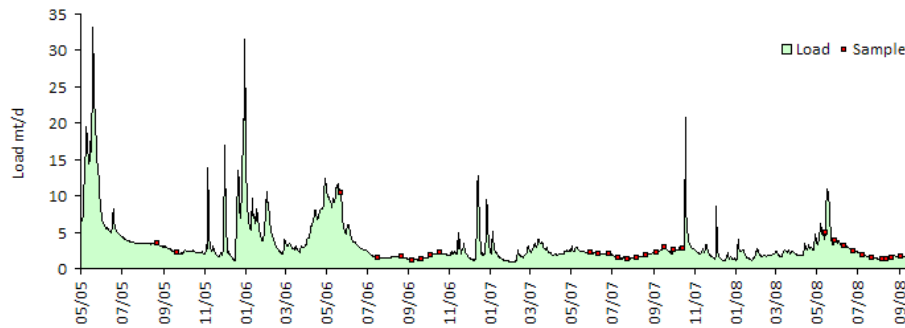
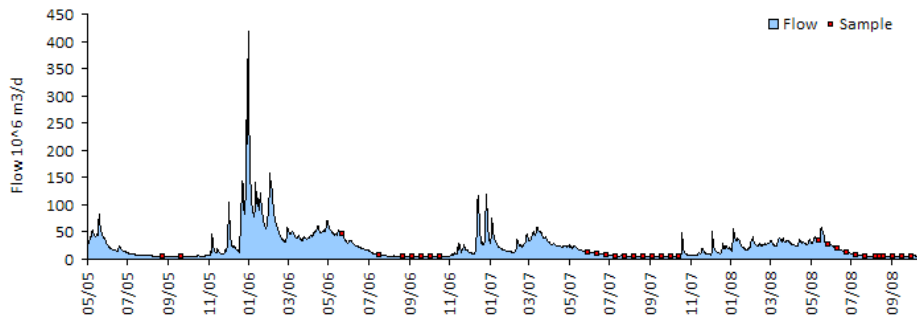
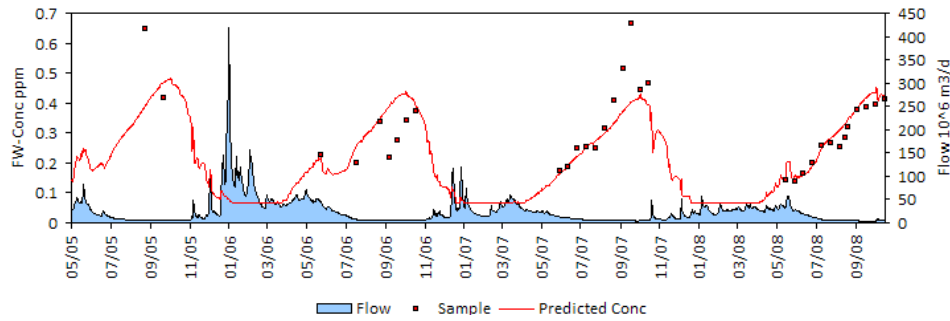
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

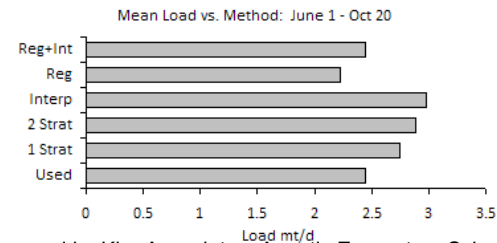
Daily Time Series:

Yearly Time Series:



Site: KR_abv_Trin KR_abv_Trin
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 08/24/05 10/15/08
 Samples 33
 Method: 5 - Regression + Interpolation

Variable: ORGN
 Mean Daily Flow 23.970 10⁶ m³/day
 Mean Daily Load 3.38 mt/day
 Flow-Wtd Conc 0.141 ppm
 Relative Std Error 3.9%
 Regression R² 72%
 Regression SE 0.26



Site: KR_abv_Trin

KR_abv_Trin

PP

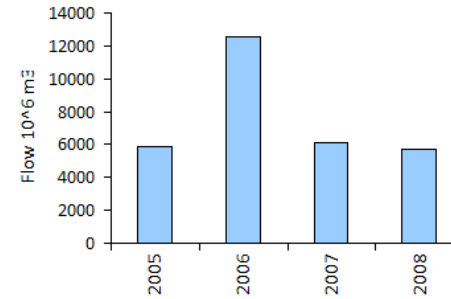
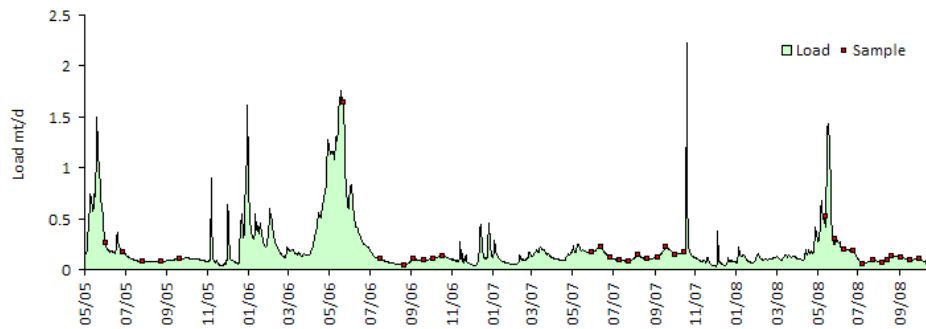
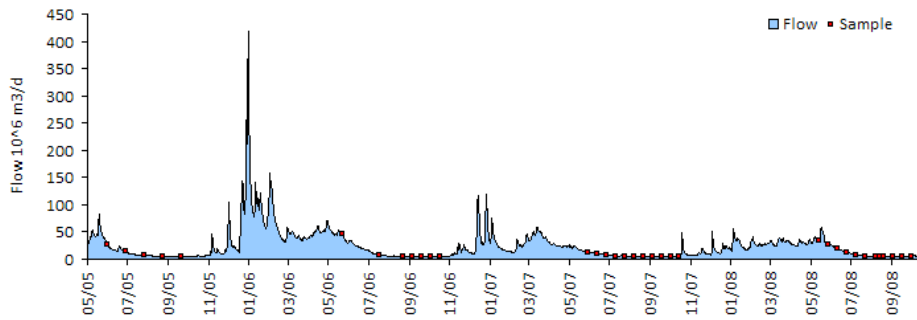
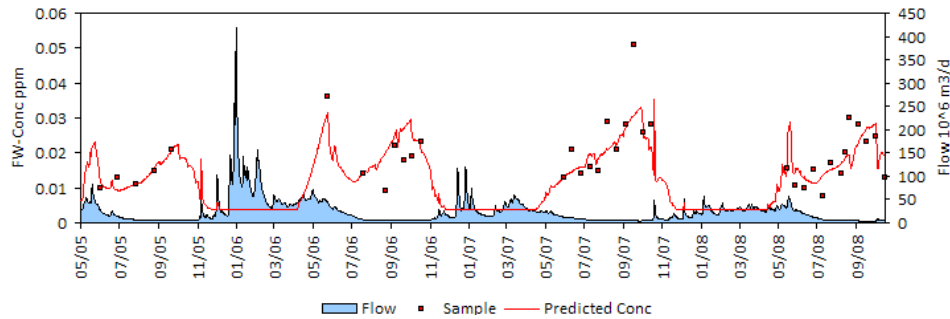
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

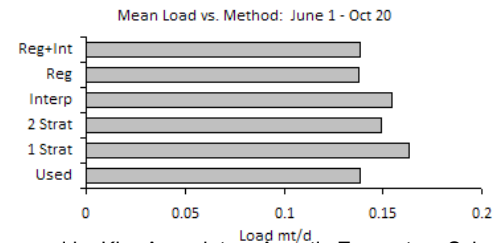
Daily Time Series:

Yearly Time Series:



Site: KR_abv_Trin KR_abv_Trin
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/15/08
 Samples 36
 Method: 5 - Regression + Interpolation

Variable: PP
 Mean Daily Flow 23.970 10⁶ m³/day
 Mean Daily Load 0.21 mt/day
 Flow-Wtd Conc 0.009 ppm
 Relative Std Error 5.9%
 Regression R2 54%
 Regression SE 0.34



Site: KR_abv_Trin

KR_abv_Trin

SRP

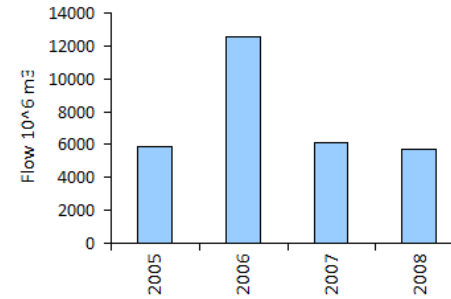
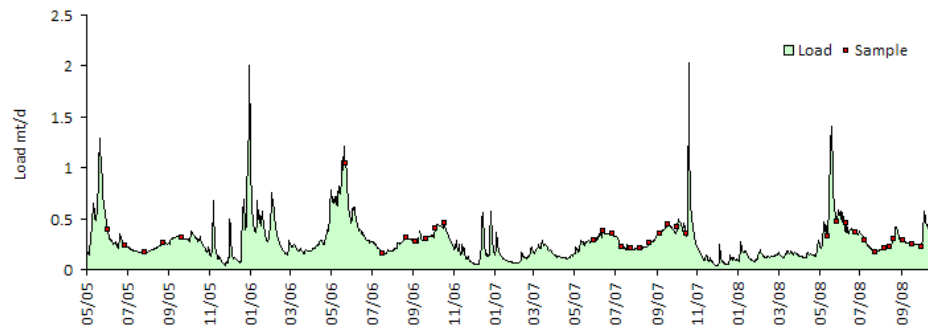
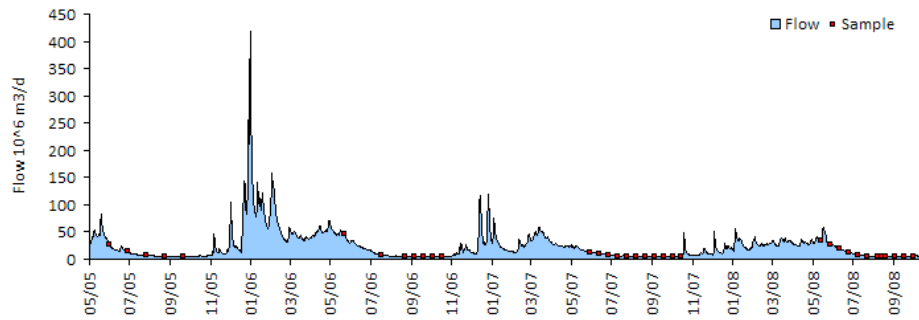
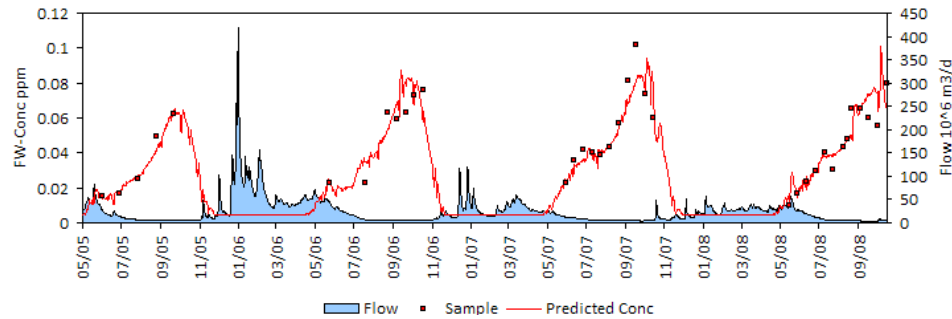
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

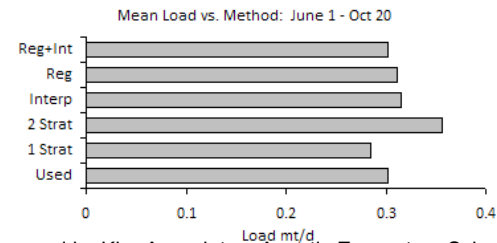
Daily Time Series:

Yearly Time Series:



Site: KR_abv_Trin KR_abv_Trin
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/15/08
 Samples 36
 Method: 5 - Regression + Interpolation

Variable: SRP
 Mean Daily Flow 23.970 10⁶ m³/day
 Mean Daily Load 0.28 mt/day
 Flow-Wtd Conc 0.012 ppm
 Relative Std Error 2.8%
 Regression R2 92%
 Regression SE 0.19



Site: KR_abv_Trin

KR_abv_Trin

TN

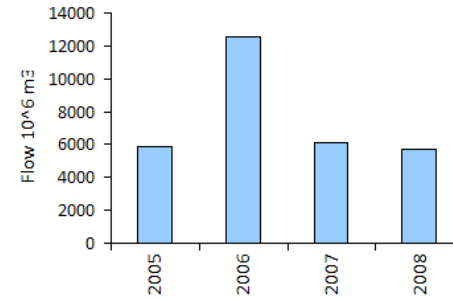
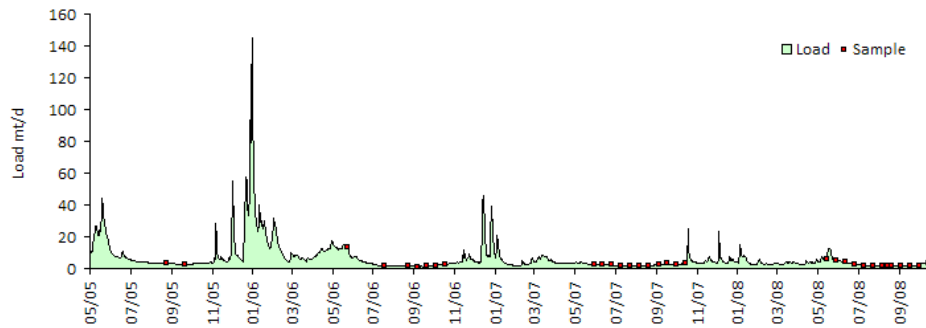
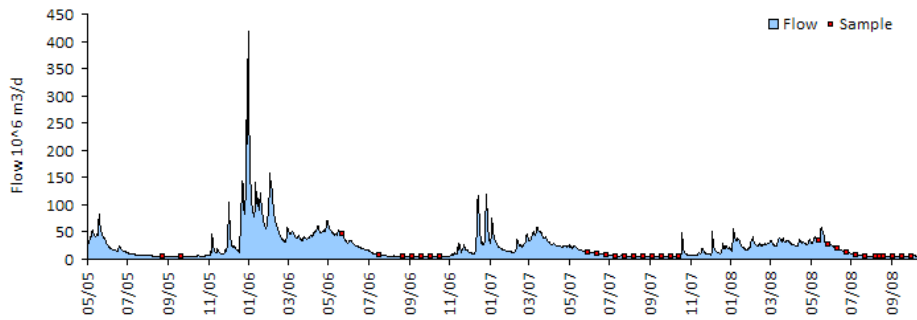
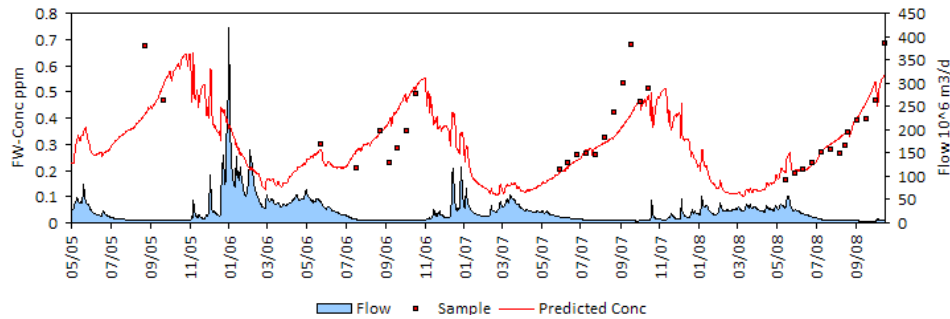
Dates: 05/01/2005 - 10/15/2008

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Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

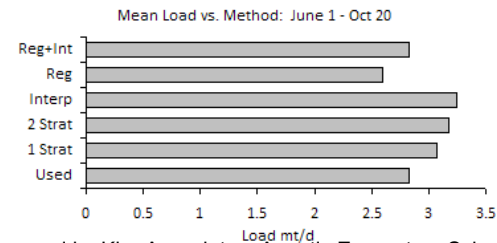
Daily Time Series:

Yearly Time Series:



Site: KR_abv_Trin KR_abv_Trin
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 08/24/05 10/15/08
 Samples 33
 Method: 5 - Regression + Interpolation

Variable: TN
 Mean Daily Flow 23.970 10⁶ m³/day
 Mean Daily Load 6.41 mt/day
 Flow-Wtd Conc 0.268 ppm
 Relative Std Error 3.9%
 Regression R2 69%
 Regression SE 0.26



Site: KR_abv_Trin

KR_abv_Trin

TP

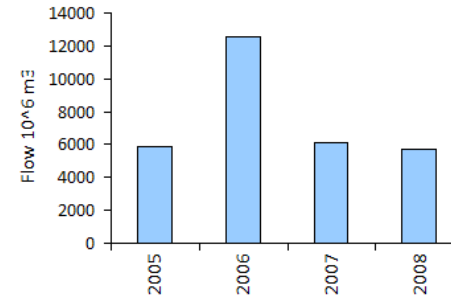
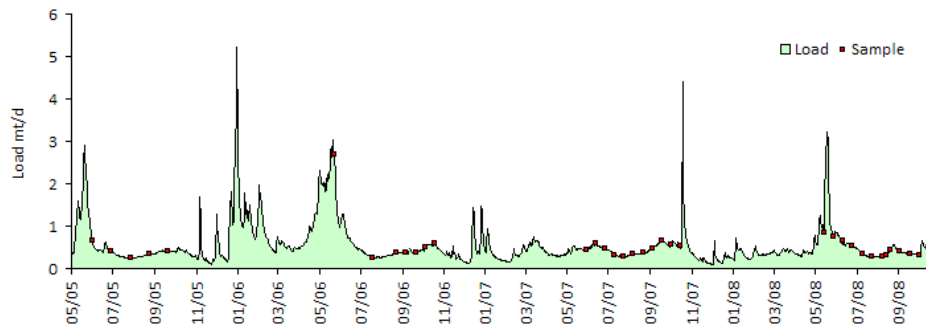
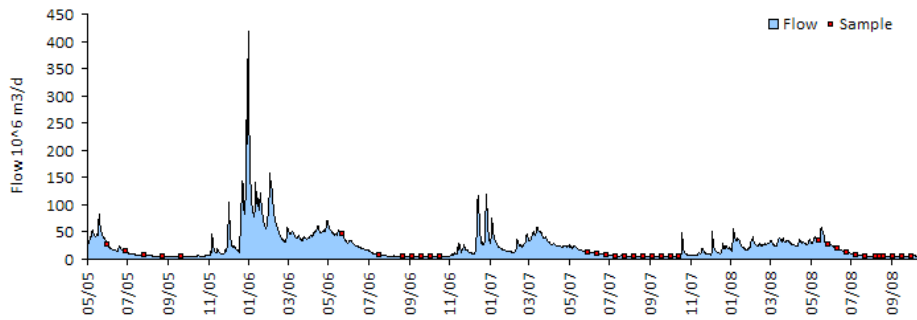
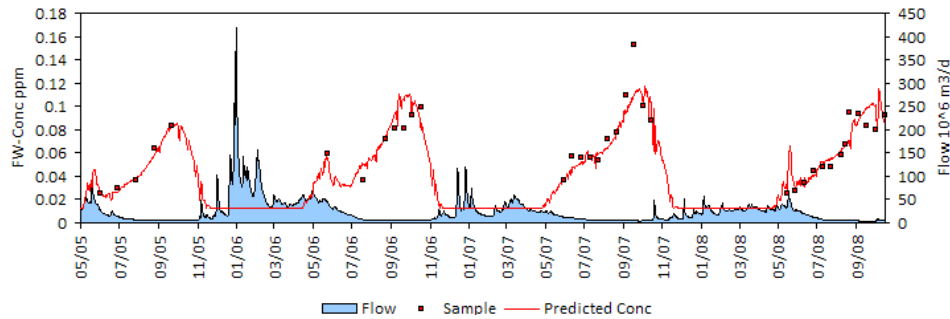
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

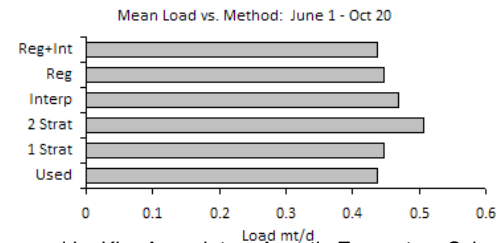
Daily Time Series:

Yearly Time Series:



Site: KR_abv_Trin KR_abv_Trin
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/15/08
 Samples 36
 Method: 5 - Regression + Interpolation

Variable: TP
 Mean Daily Flow 23.970 10⁶ m³/day
 Mean Daily Load 0.55 mt/day
 Flow-Wtd Conc 0.023 ppm
 Relative Std Error 2.6%
 Regression R2 90%
 Regression SE 0.17



Site: KR_bel_IGD

KR_bel_IGD

INORGN

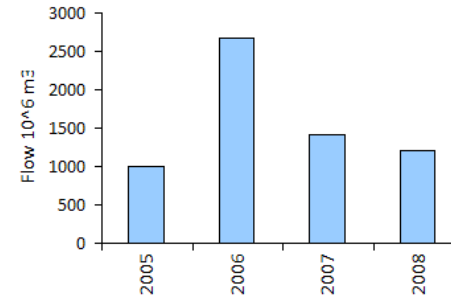
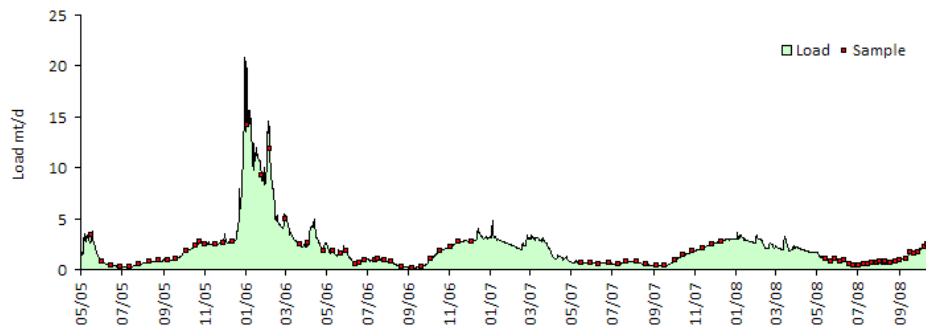
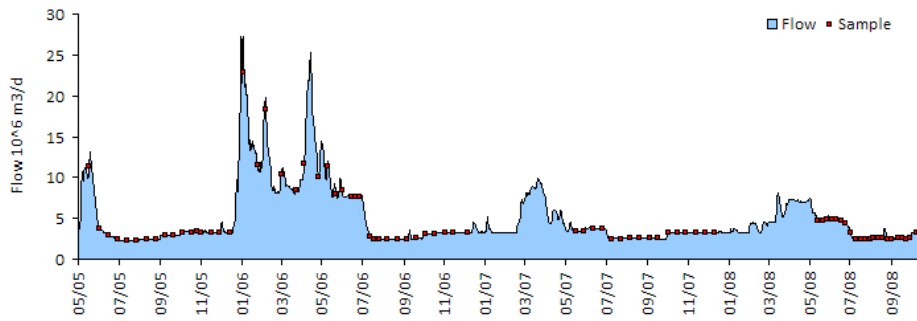
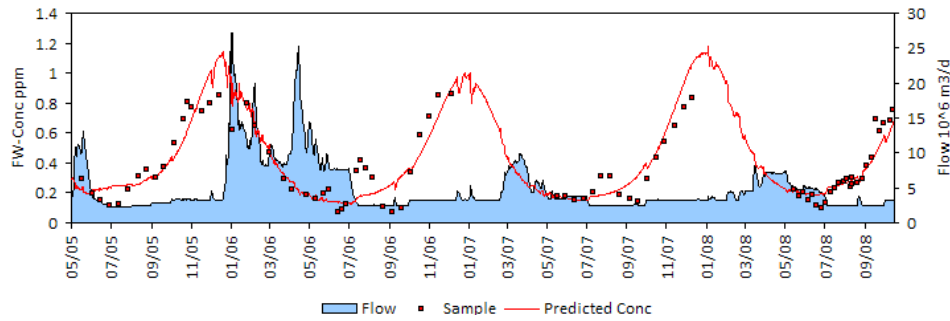
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

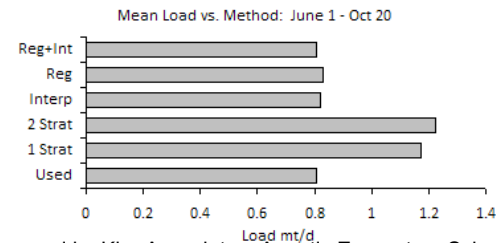
Daily Time Series:

Yearly Time Series:



Site: KR_bel_IGD KR_bel_IGD
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/17/05 10/14/08
 Samples 83
 Method: 5 - Regression + Interpolation

Variable: INORGN
 Mean Daily Flow 4.968 10^6 m^3/day
 Mean Daily Load 2.06 mt/day
 Flow-Wtd Conc 0.415 ppm
 Relative Std Error 3.6%
 Regression R2 71%
 Regression SE 0.39



Site: KR_bel_IGD

KR_bel_IGD

ORGN

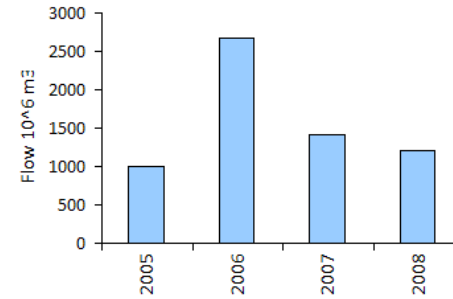
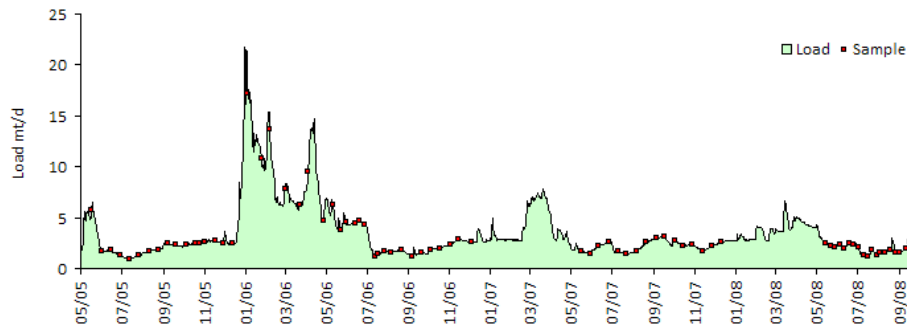
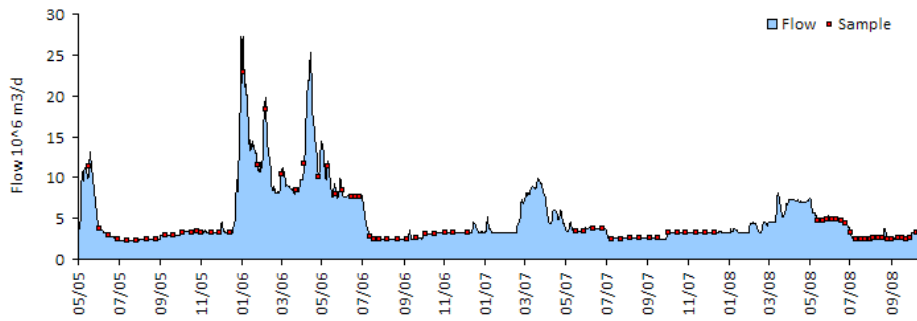
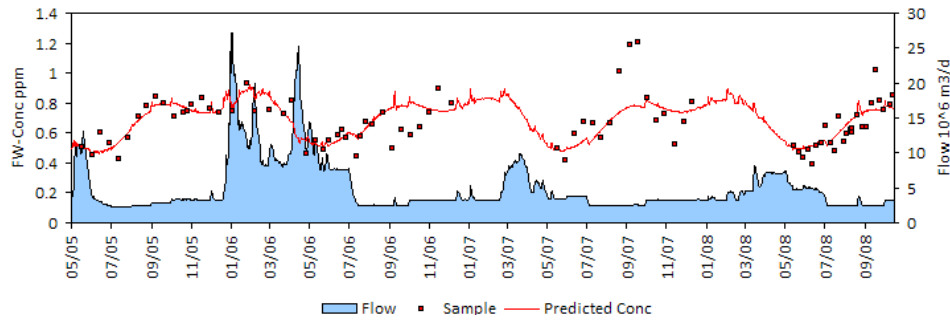
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

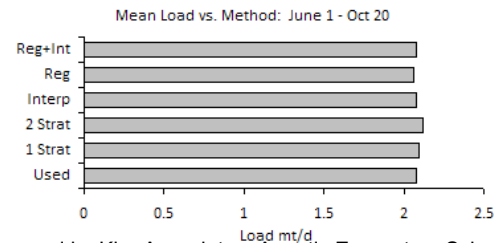
Daily Time Series:

Yearly Time Series:



Site: KR_bel_IGD KR_bel_IGD
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/17/05 10/14/08
 Samples 83
 Method: 5 - Regression + Interpolation

Variable: ORGN
 Mean Daily Flow 4.968 10^6 m3/day
 Mean Daily Load 3.45 mt/day
 Flow-Wtd Conc 0.695 ppm
 Relative Std Error 1.7%
 Regression R2 57%
 Regression SE 0.17



Site: KR_bel_IGD

KR_bel_IGD

PP

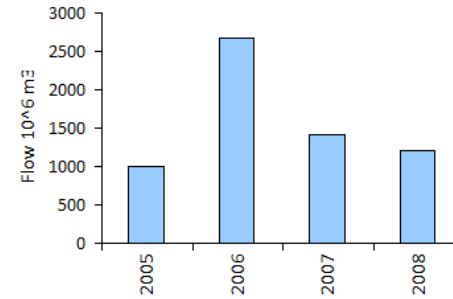
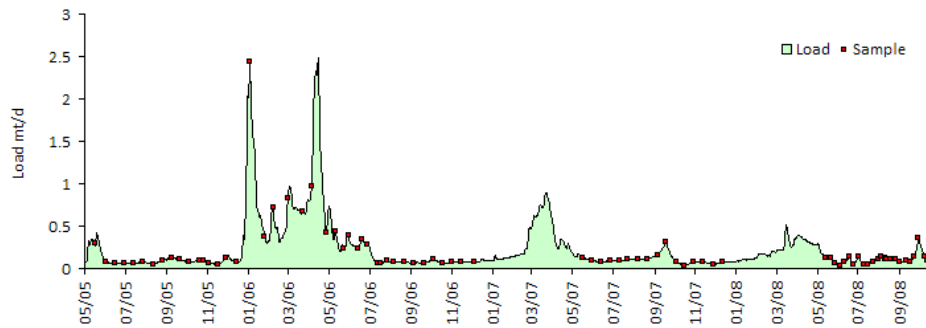
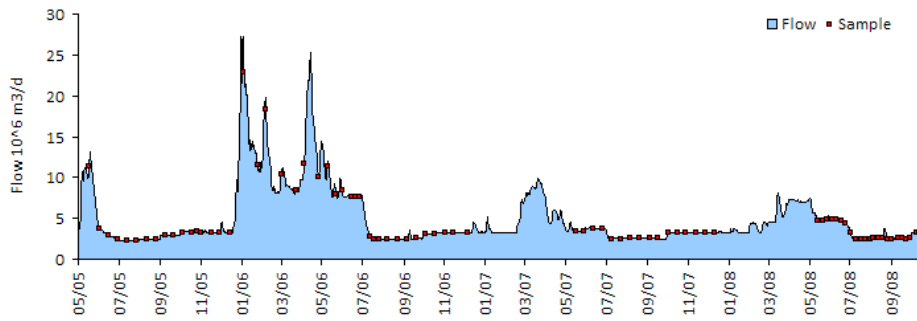
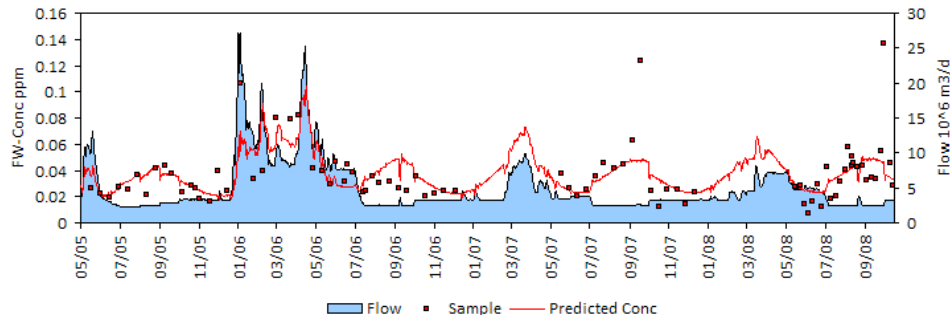
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

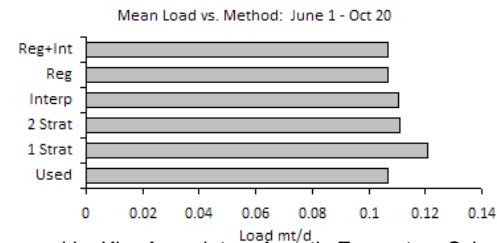
Daily Time Series:

Yearly Time Series:



Site: KR_bel_IGD KR_bel_IGD
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/17/05 10/14/08
 Samples 83
 Method: 5 - Regression + Interpolation

Variable: PP
 Mean Daily Flow 4.968 10^6 m³/day
 Mean Daily Load 0.23 mt/day
 Flow-Wtd Conc 0.045 ppm
 Relative Std Error 9.7%
 Regression R2 42%
 Regression SE 0.41



Site: KR_bel_IGD

KR_bel_IGD

SRP

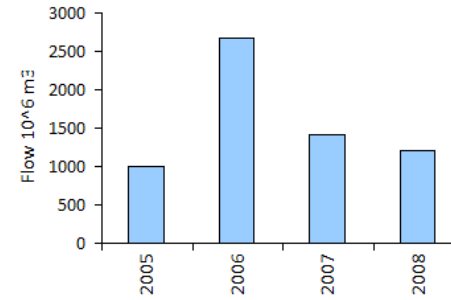
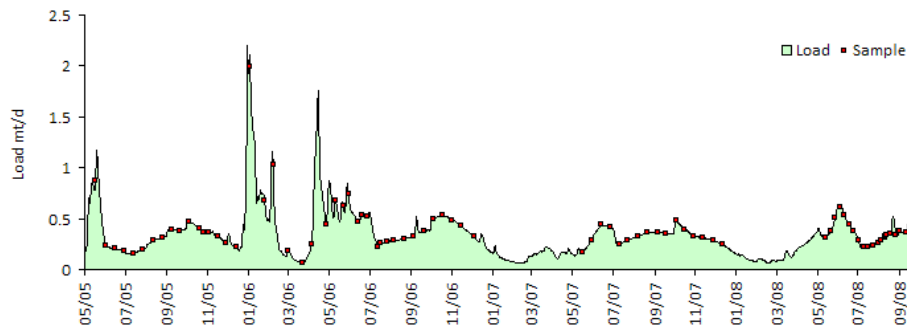
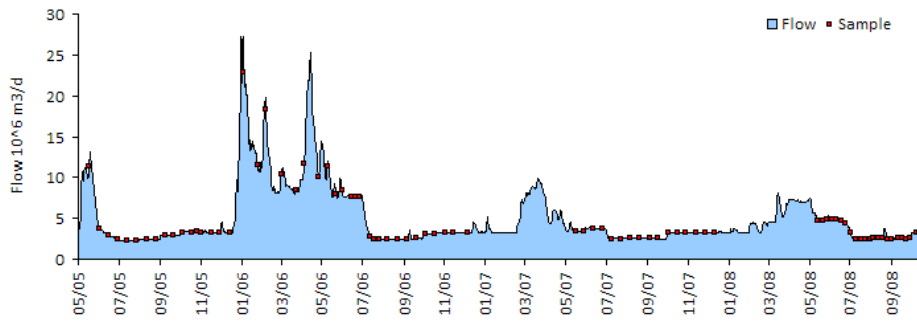
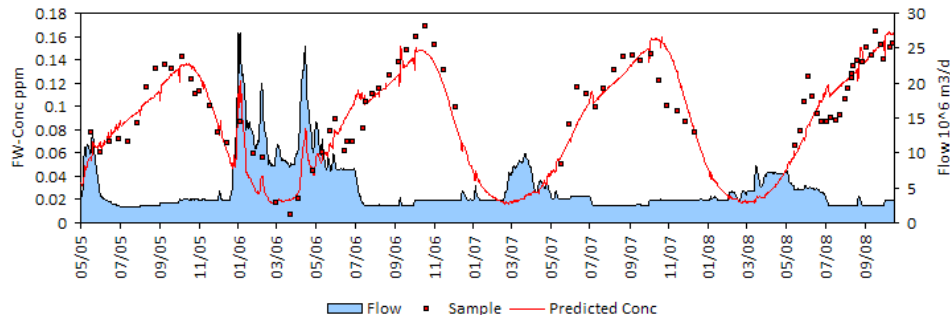
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

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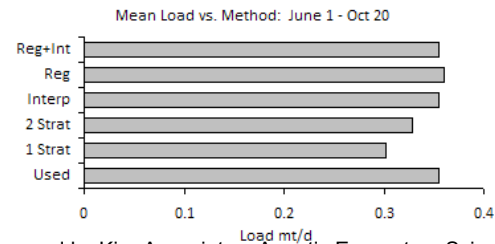
Daily Time Series:

Yearly Time Series:



Site: KR_bel_IGD KR_bel_IGD
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/17/05 10/14/08
 Samples 83
 Method: 5 - Regression + Interpolation

Variable: SRP
 Mean Daily Flow 4.968 10⁶ m³/day
 Mean Daily Load 0.34 mt/day
 Flow-Wtd Conc 0.069 ppm
 Relative Std Error 3.6%
 Regression R² 81%
 Regression SE 0.23



Site: KR_bel_IGD

KR_bel_IGD

TN

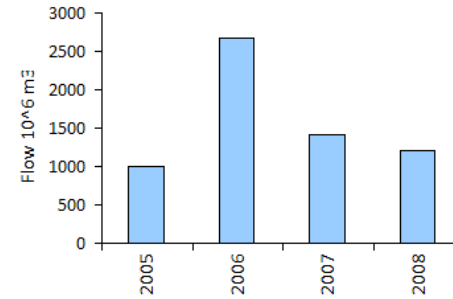
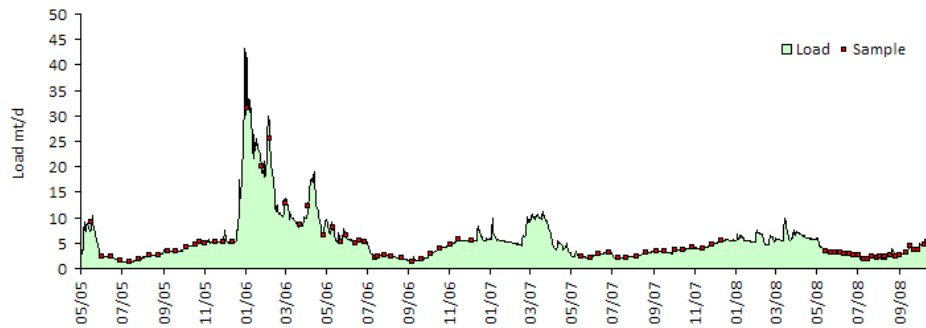
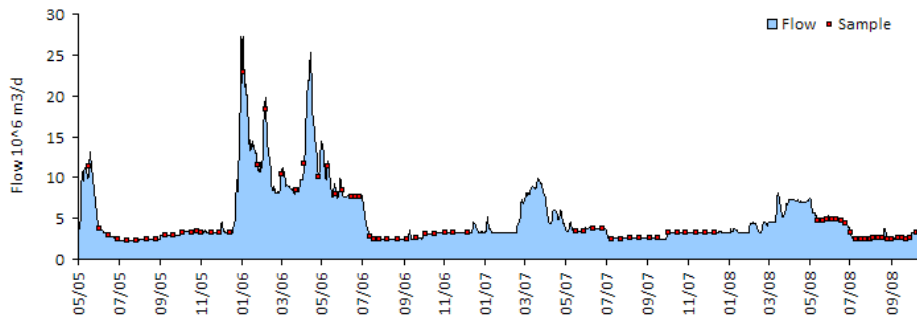
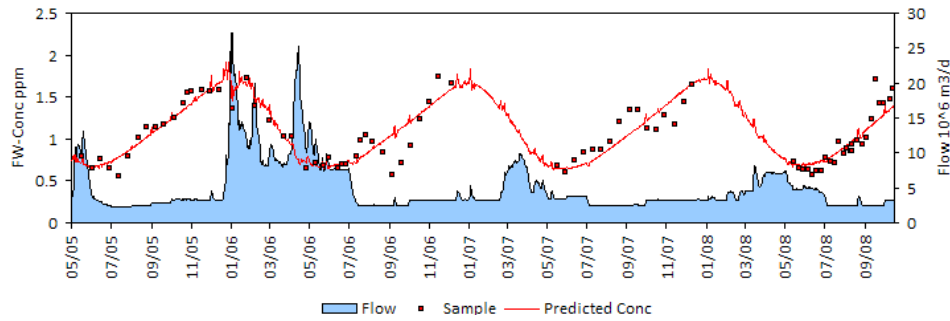
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

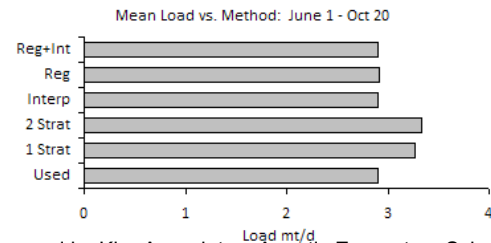
Daily Time Series:

Yearly Time Series:



Site: KR_bel_IGD KR_bel_IGD
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/17/05 10/14/08
 Samples 83
 Method: 5 - Regression + Interpolation

Variable: TN
 Mean Daily Flow 4.968 10⁶ m³/day
 Mean Daily Load 5.52 mt/day
 Flow-Wtd Conc 1.111 ppm
 Relative Std Error 1.4%
 Regression R2 79%
 Regression SE 0.16



Site: KR_bel_IGD

KR_bel_IGD

TP

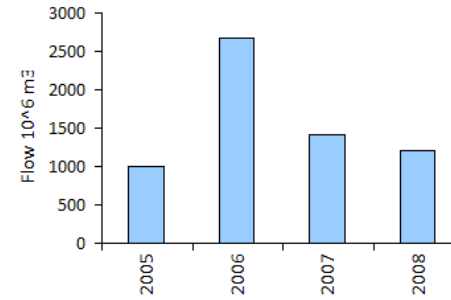
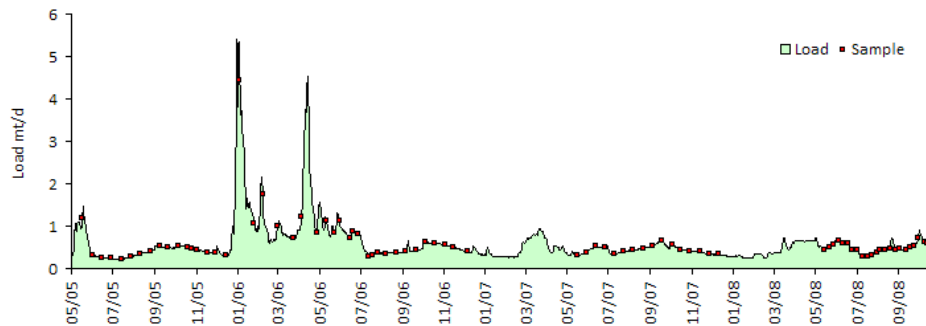
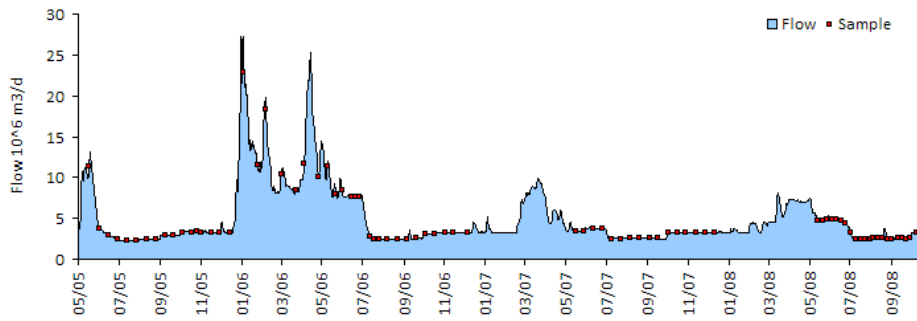
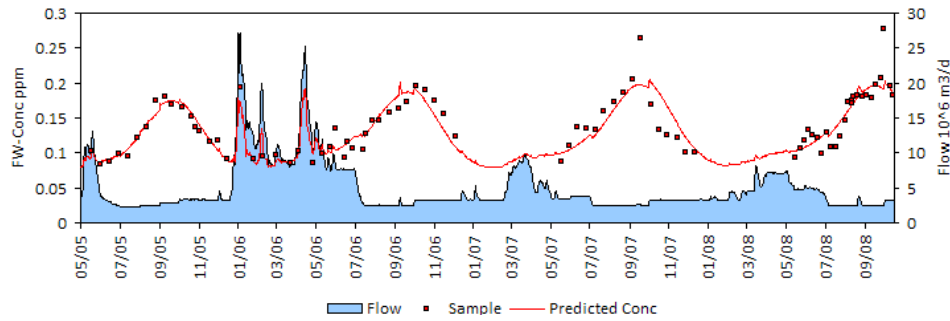
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

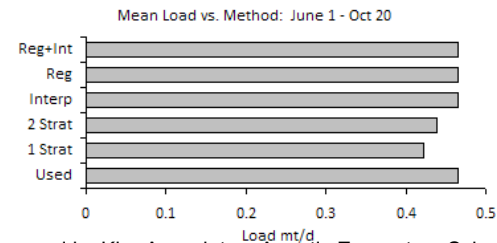
Daily Time Series:

Yearly Time Series:



Site: KR_bel_IGD KR_bel_IGD
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/17/05 10/14/08
 Samples 83
 Method: 5 - Regression + Interpolation

Variable: TP
 Mean Daily Flow 4.968 10⁶ m³/day
 Mean Daily Load 0.59 mt/day
 Flow-Wtd Conc 0.118 ppm
 Relative Std Error 2.1%
 Regression R2 80%
 Regression SE 0.13



Site: KR_bel_Keno

KR_bel_Keno

INORGN

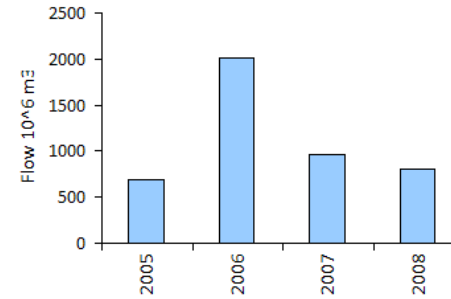
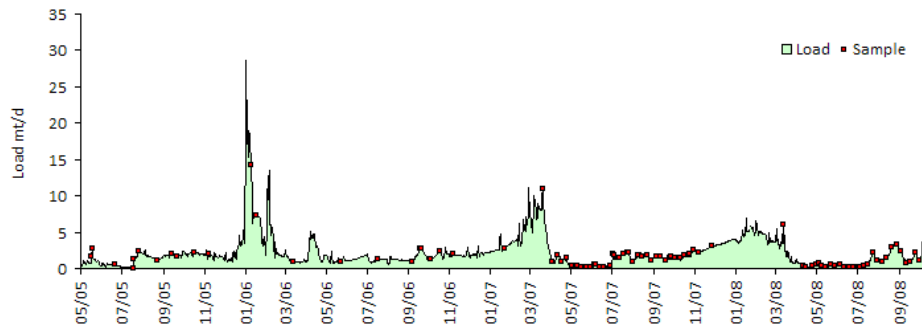
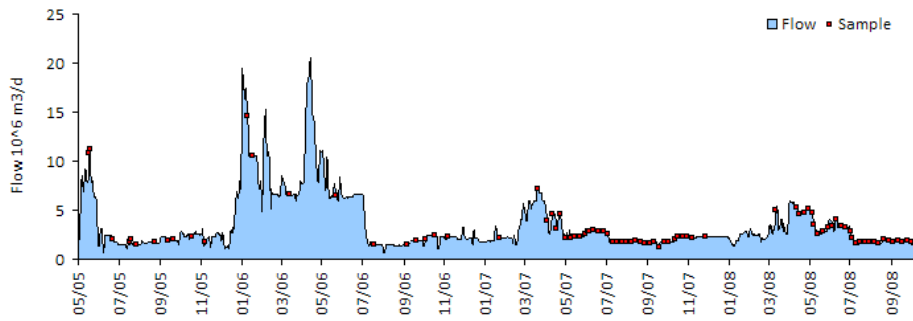
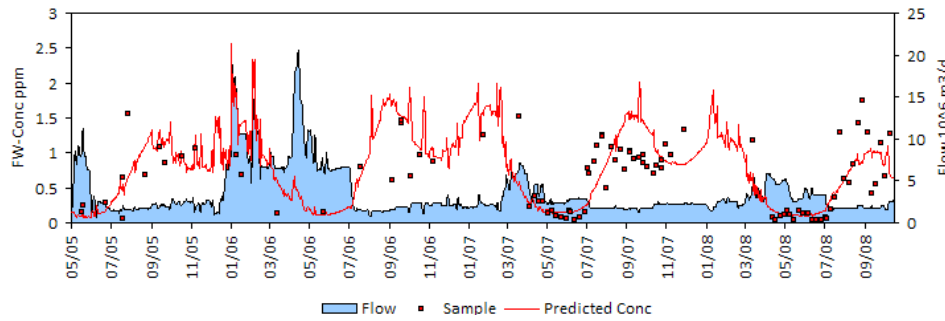
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

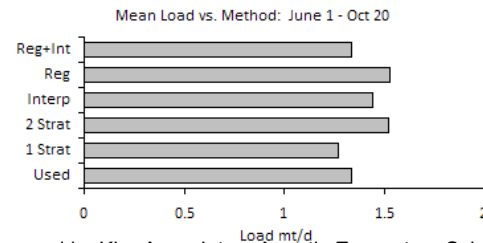
Daily Time Series:

Yearly Time Series:



Site: KR_bel_Keno KR_bel_Keno
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/17/05 10/09/08
 Samples 93
 Method: 5 - Regression + Interpolation

Variable: INORGN
 Mean Daily Flow 3.529 10⁶ m³/day
 Mean Daily Load 2.15 mt/day
 Flow-Wtd Conc 0.609 ppm
 Relative Std Error 10.7%
 Regression R² 68%
 Regression SE 0.69



Site: KR_bel_Keno

KR_bel_Keno

ORGN

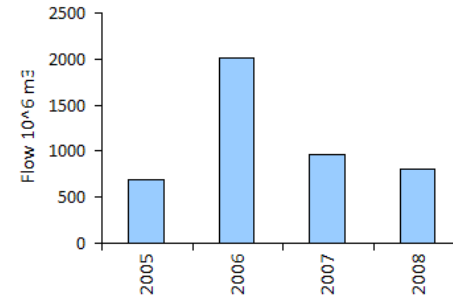
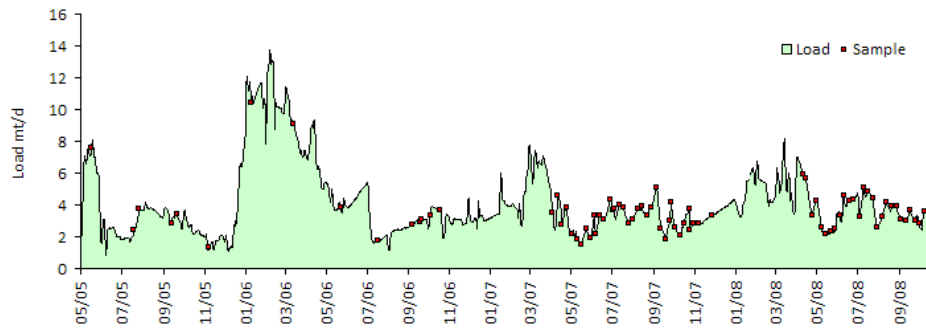
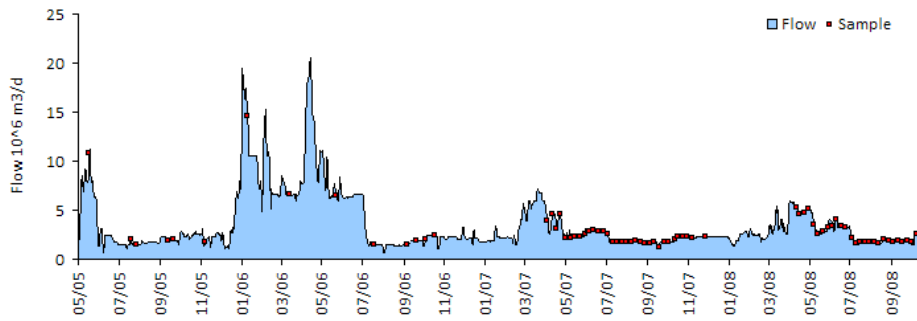
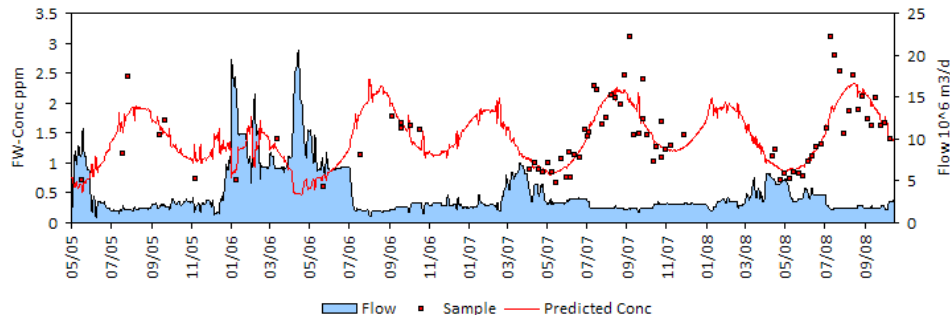
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

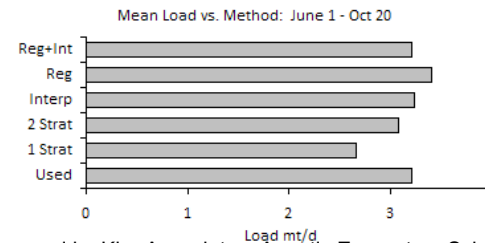
Daily Time Series:

Yearly Time Series:



Site: KR_bel_Keno KR_bel_Keno
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/17/05 10/09/08
 Samples 79
 Method: 5 - Regression + Interpolation

Variable: ORGN
 Mean Daily Flow 3.529 10⁶ m³/day
 Mean Daily Load 4.13 mt/day
 Flow-Wtd Conc 1.169 ppm
 Relative Std Error 2.6%
 Regression R2 75%
 Regression SE 0.22



Site: KR_bel_Keno

KR_bel_Keno

PP

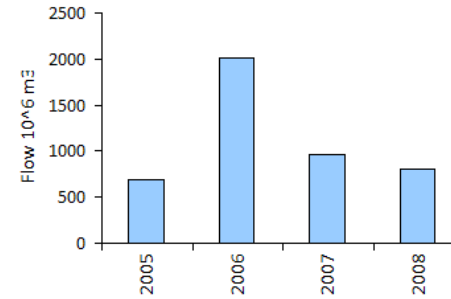
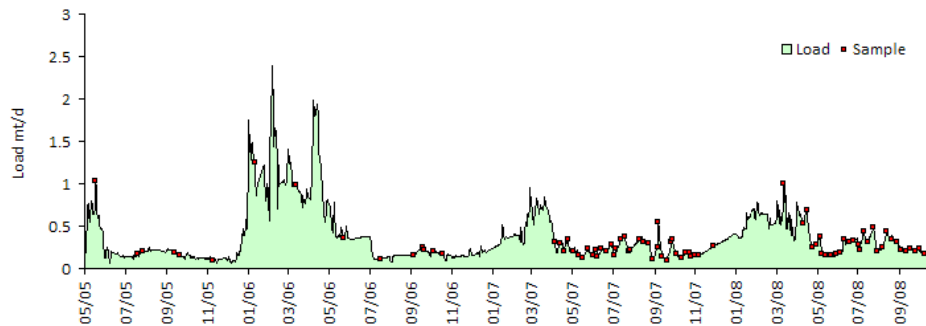
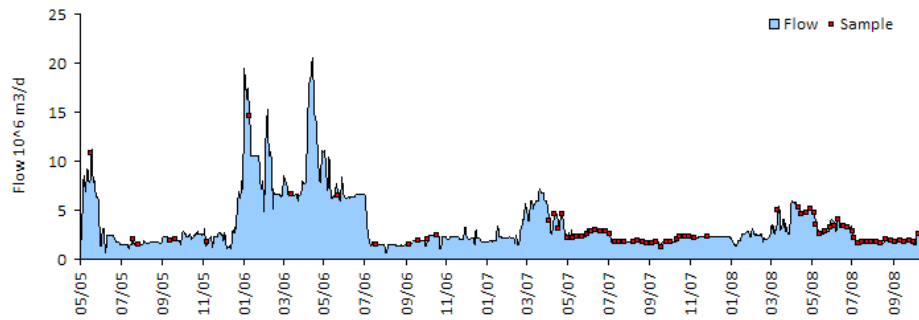
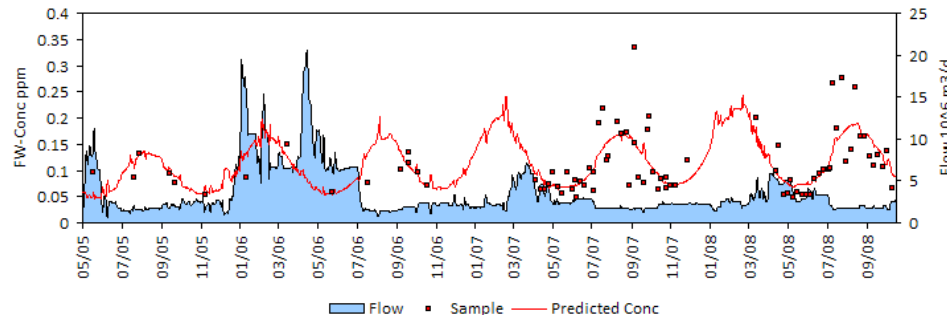
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

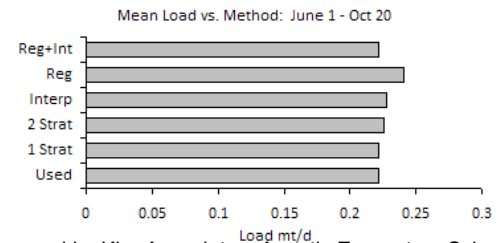
Daily Time Series:

Yearly Time Series:



Site: KR_bel_Keno KR_bel_Keno
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/17/05 10/09/08
 Samples 83
 Method: 5 - Regression + Interpolation

Variable: PP
 Mean Daily Flow 3.529 10⁶ m³/day
 Mean Daily Load 0.37 mt/day
 Flow-Wtd Conc 0.105 ppm
 Relative Std Error 4.9%
 Regression R2 54%
 Regression SE 0.33



Site: KR_bel_Keno

KR_bel_Keno

SRP

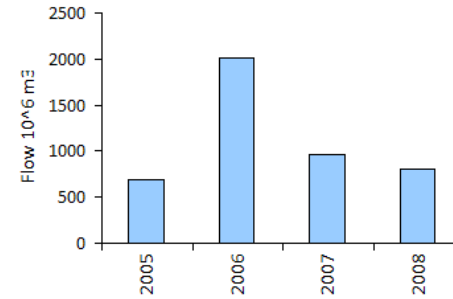
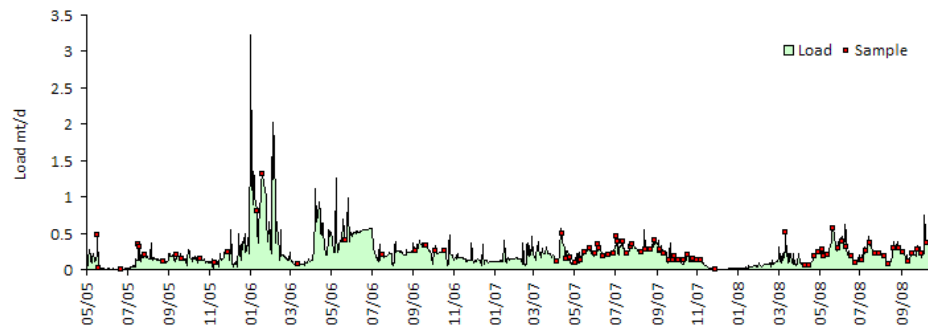
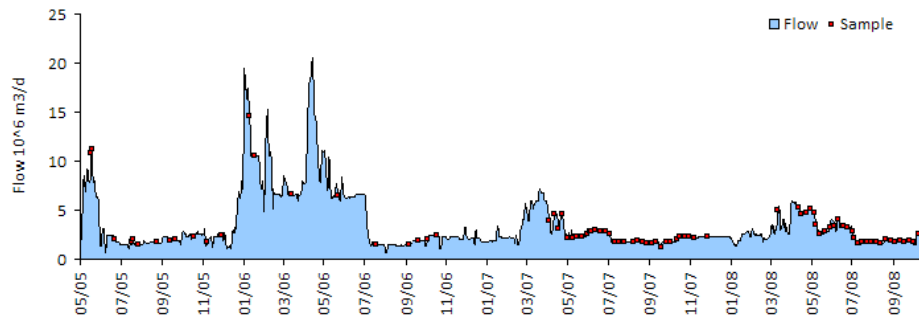
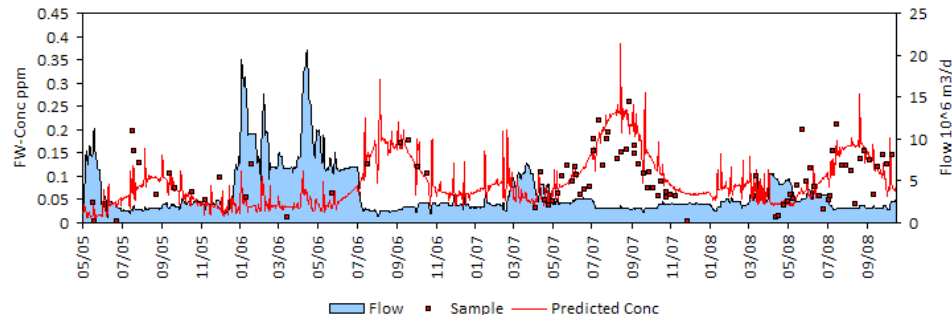
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

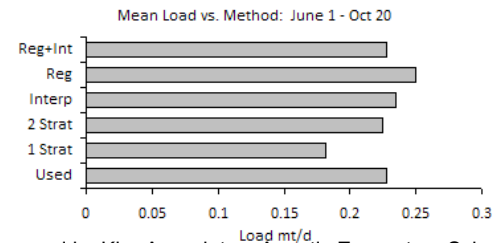
Daily Time Series:

Yearly Time Series:



Site: KR_bel_Keno KR_bel_Keno
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/17/05 10/09/08
 Samples 90
 Method: 5 - Regression + Interpolation

Variable: SRP
 Mean Daily Flow 3.529 10⁶ m³/day
 Mean Daily Load 0.23 mt/day
 Flow-Wtd Conc 0.064 ppm
 Relative Std Error 6.5%
 Regression R2 40%
 Regression SE 0.75



Site: KR_bel_Keno

KR_bel_Keno

TN

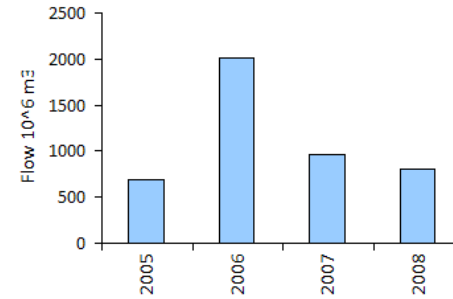
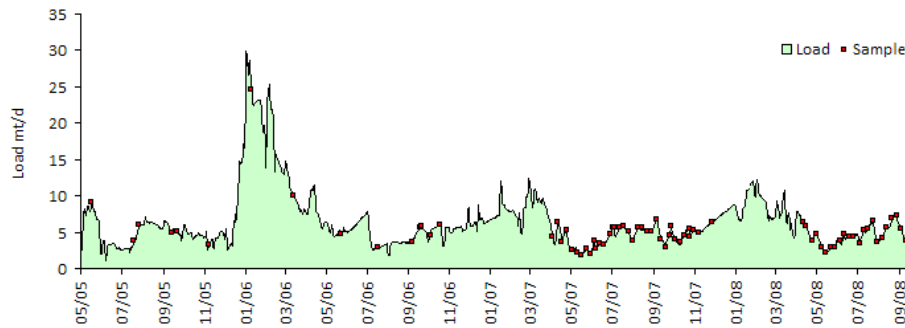
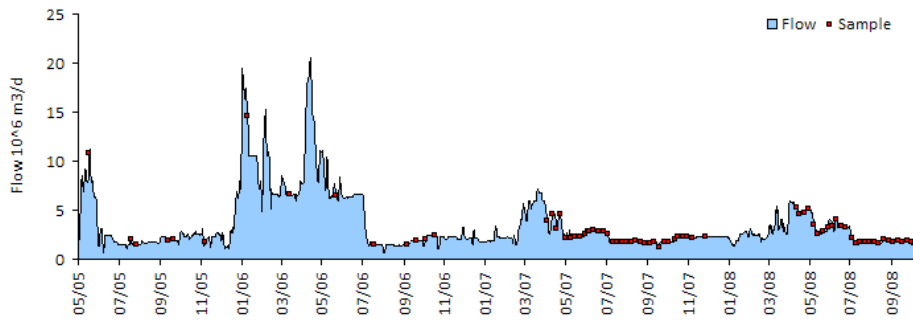
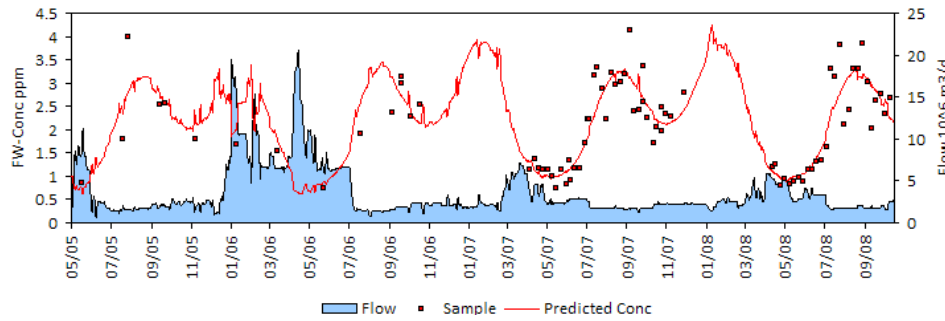
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

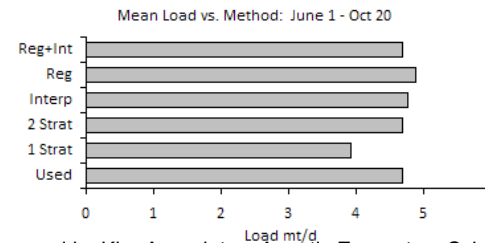
Daily Time Series:

Yearly Time Series:



Site: KR_bel_Keno KR_bel_Keno
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/17/05 10/09/08
 Samples 79
 Method: 5 - Regression + Interpolation

Variable: TN
 Mean Daily Flow 3.529 10⁶ m³/day
 Mean Daily Load 6.41 mt/day
 Flow-Wtd Conc 1.815 ppm
 Relative Std Error 2.5%
 Regression R2 85%
 Regression SE 0.20



Site: KR_bel_Keno

KR_bel_Keno

TP

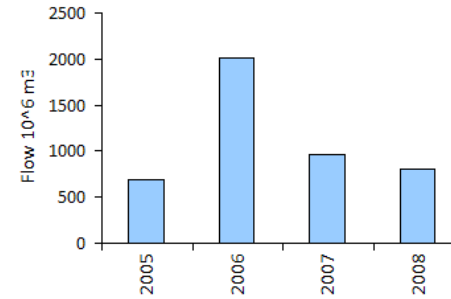
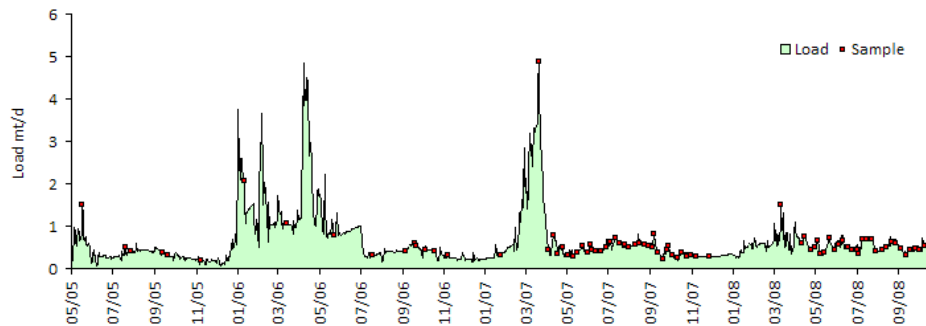
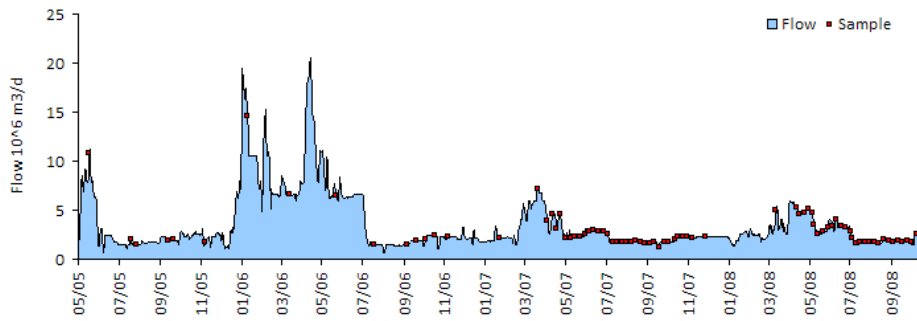
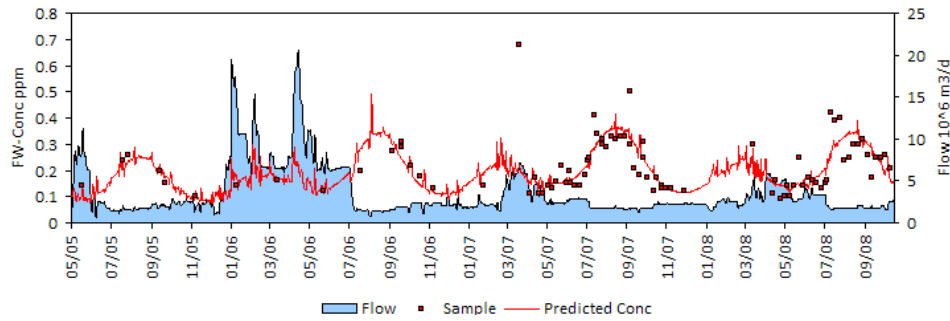
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

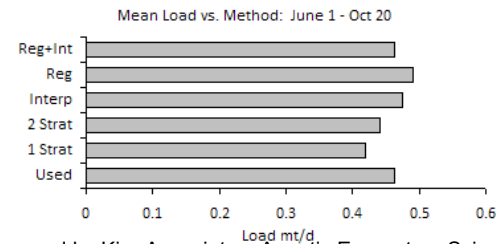
Daily Time Series:

Yearly Time Series:



Site: KR_bel_Keno KR_bel_Keno
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/17/05 10/09/08
 Samples 87
 Method: 5 - Regression + Interpolation

Variable: TP
 Mean Daily Flow 3.529 10⁶ m³/day
 Mean Daily Load 0.64 mt/day
 Flow-Wtd Conc 0.180 ppm
 Relative Std Error 7.6%
 Regression R2 63%
 Regression SE 0.28



Site: KR_bel_Trin

KR_bel_Trin

INORGN

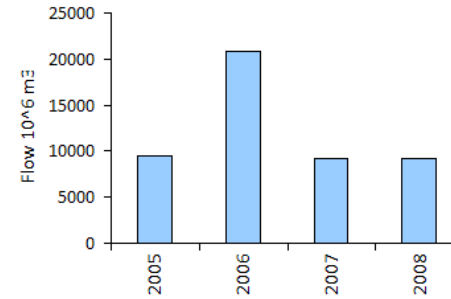
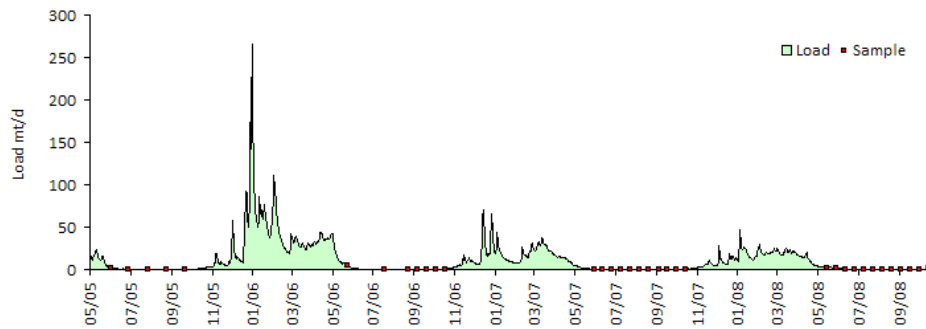
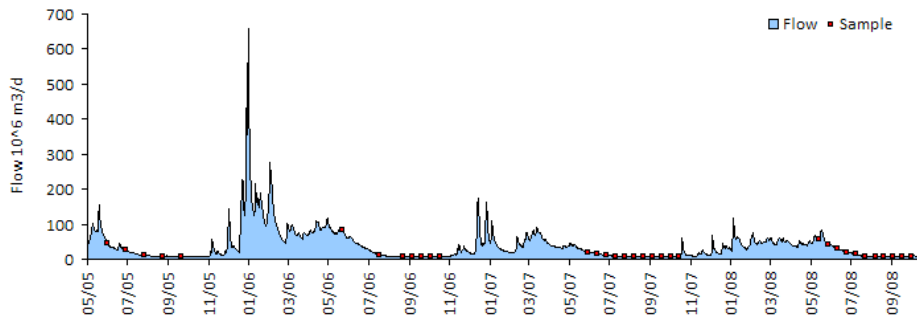
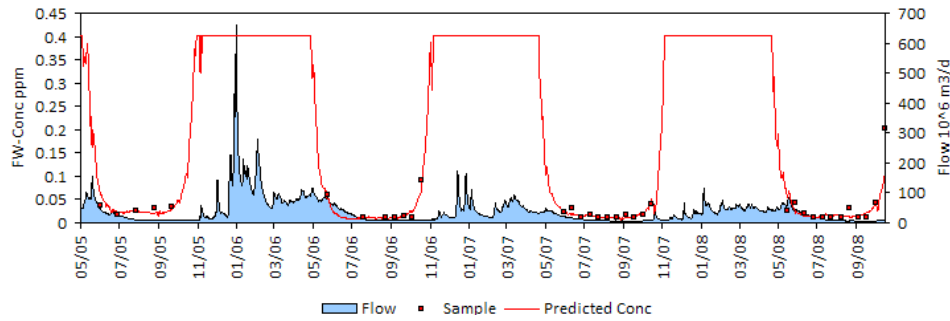
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

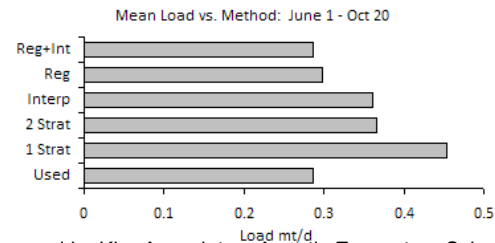
Daily Time Series:

Yearly Time Series:



Site: KR_bel_Trin KR_bel_Trin
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/15/08
 Samples 35
 Method: 5 - Regression + Interpolation

Variable: INORGN
 Mean Daily Flow 38.563 10⁶ m³/day
 Mean Daily Load 11.26 mt/day
 Flow-Wtd Conc 0.292 ppm
 Relative Std Error 15.5%
 Regression R2 71%
 Regression SE 0.48



Site: KR_bel_Trin

KR_bel_Trin

ORGN

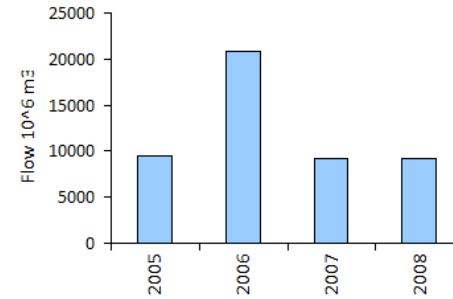
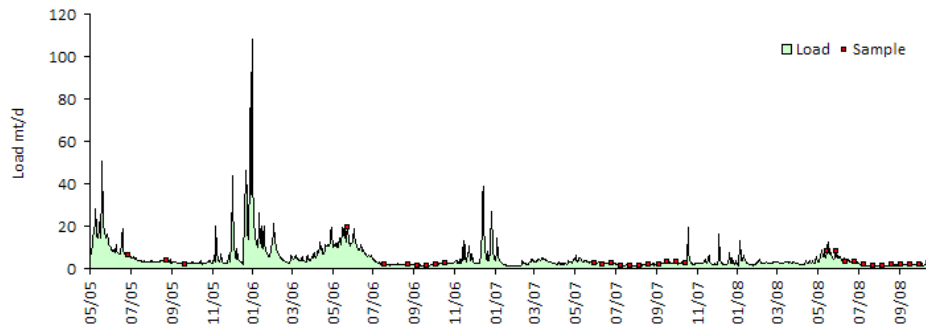
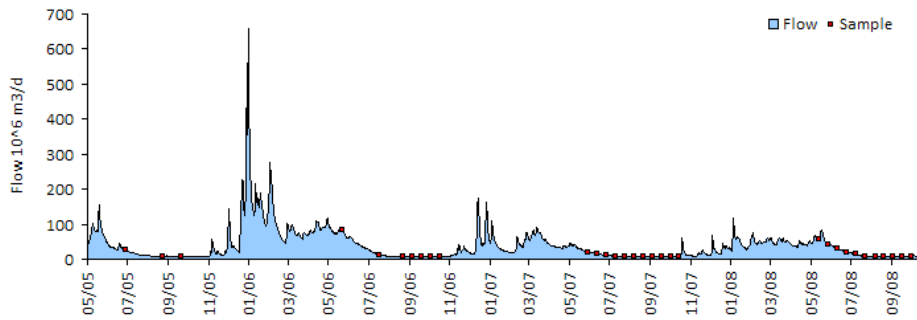
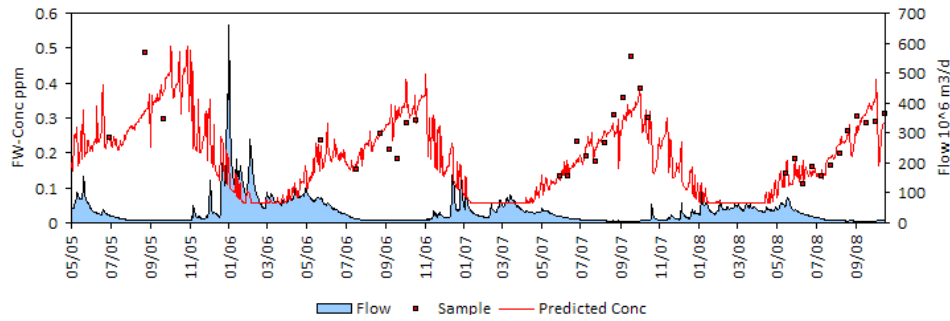
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

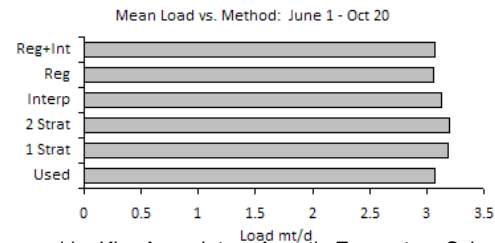
Daily Time Series:

Yearly Time Series:



Site: KR_bel_Trin KR_bel_Trin
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/28/05 10/15/08
 Samples 33
 Method: 5 - Regression + Interpolation

Variable: ORGN
 Mean Daily Flow 38.563 10^6 m³/day
 Mean Daily Load 5.00 mt/day
 Flow-Wtd Conc 0.130 ppm
 Relative Std Error 3.4%
 Regression R2 72%
 Regression SE 0.24



Site: KR_bel_Trin

KR_bel_Trin

PP

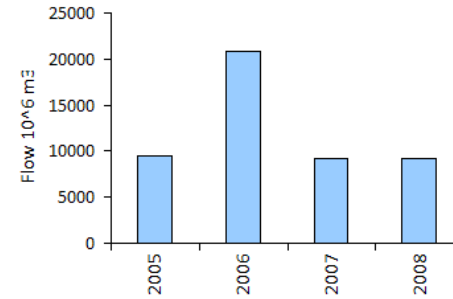
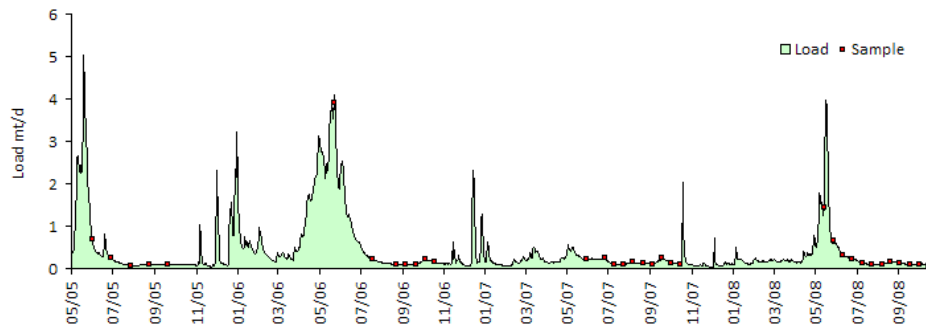
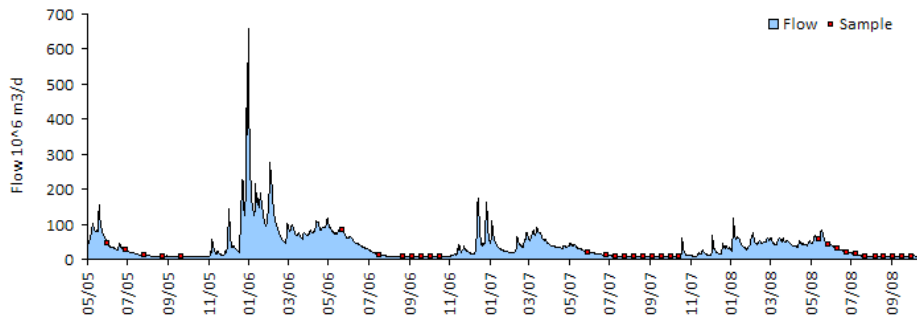
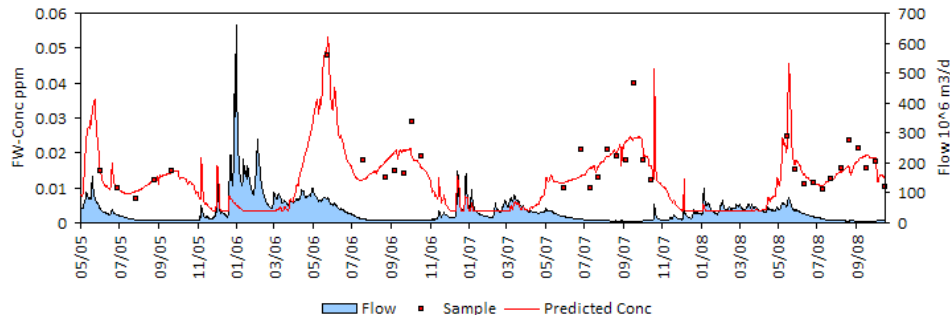
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

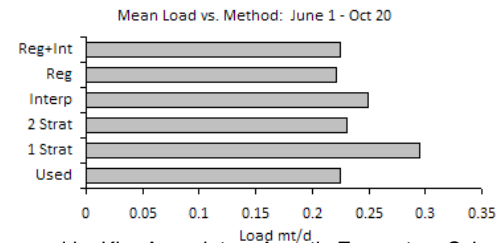
Daily Time Series:

Yearly Time Series:



Site: KR_bel_Trin KR_bel_Trin
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/15/08
 Samples 34
 Method: 5 - Regression + Interpolation

Variable: PP
 Mean Daily Flow 38.563 10^6 m^3/day
 Mean Daily Load 0.42 mt/day
 Flow-Wtd Conc 0.011 ppm
 Relative Std Error 4.4%
 Regression R2 63%
 Regression SE 0.30



Site: KR_bel_Trin

KR_bel_Trin

SRP

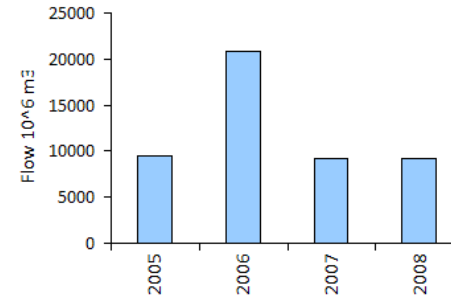
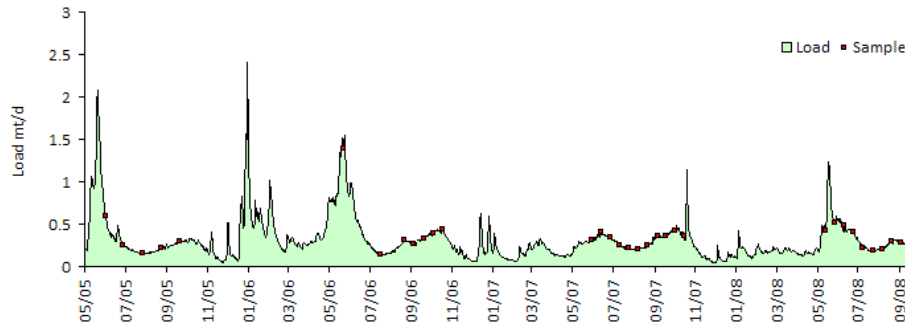
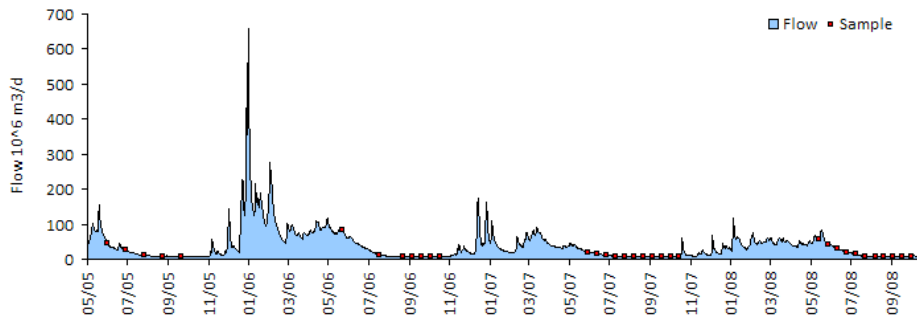
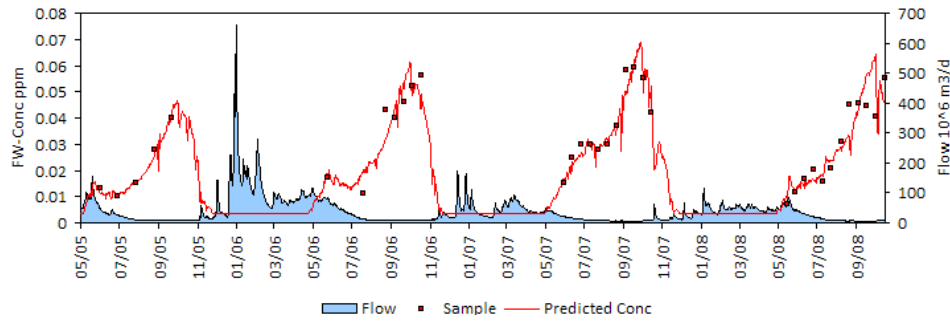
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

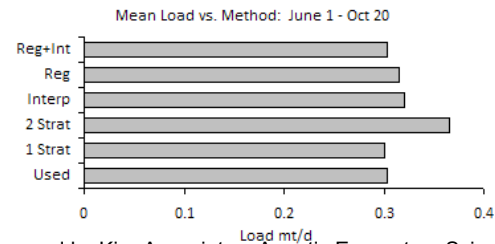
Daily Time Series:

Yearly Time Series:



Site: KR_bel_Trin KR_bel_Trin
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/15/08
 Samples 35
 Method: 5 - Regression + Interpolation

Variable: SRP
 Mean Daily Flow 38.563 10⁶ m³/day
 Mean Daily Load 0.31 mt/day
 Flow-Wtd Conc 0.008 ppm
 Relative Std Error 2.9%
 Regression R2 91%
 Regression SE 0.21



Site: KR_bel_Trin

KR_bel_Trin

TN

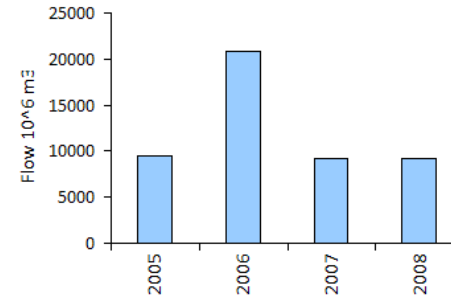
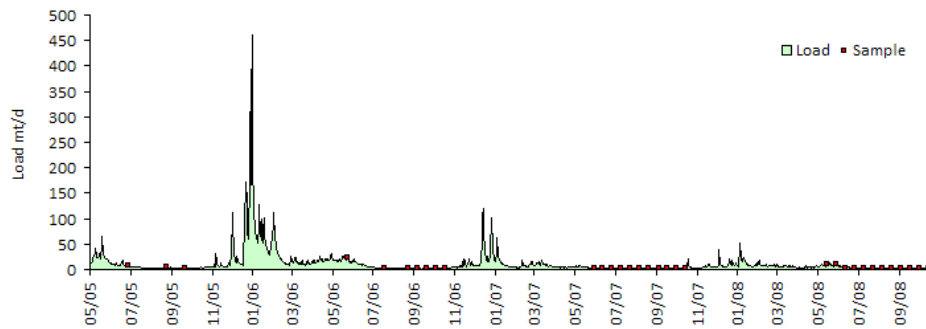
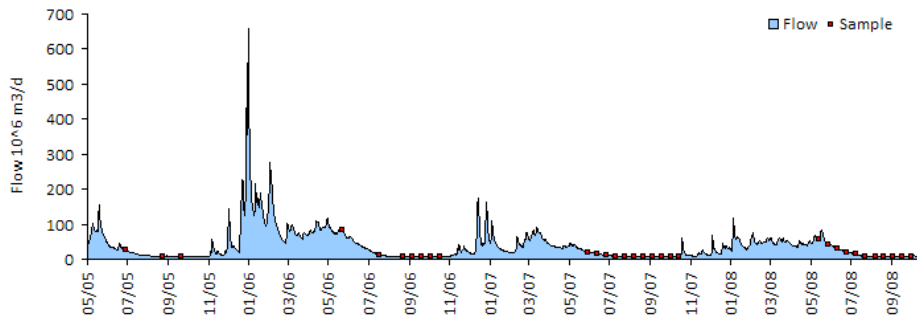
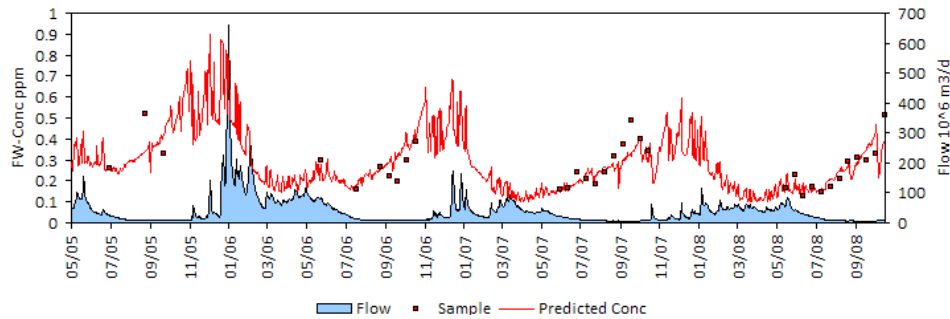
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

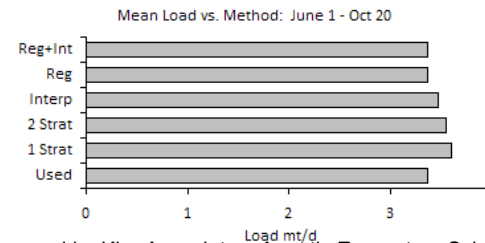
Daily Time Series:

Yearly Time Series:



Site: KR_bel_Trin KR_bel_Trin
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/28/05 10/15/08
 Samples 33
 Method: 5 - Regression + Interpolation

Variable: TN
 Mean Daily Flow 38.563 10⁶ m³/day
 Mean Daily Load 11.56 mt/day
 Flow-Wtd Conc 0.300 ppm
 Relative Std Error 4.1%
 Regression R² 70%
 Regression SE 0.25



Site: KR_bel_Trin

KR_bel_Trin

TP

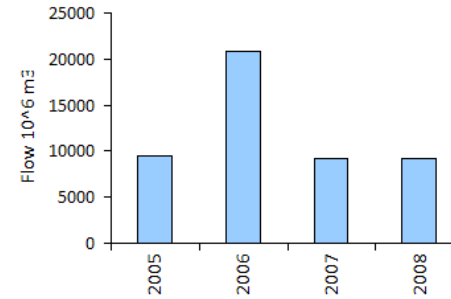
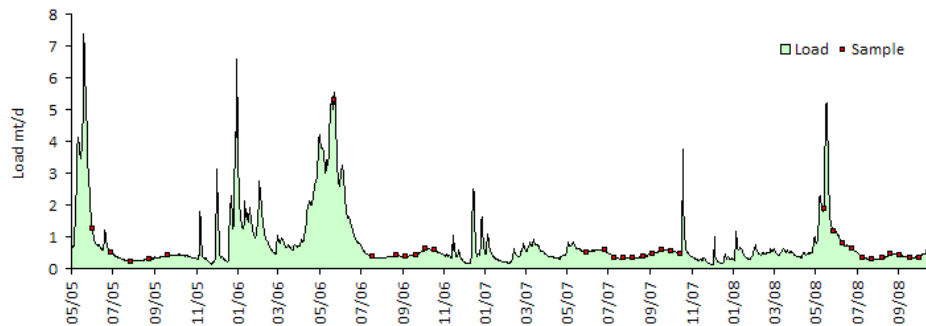
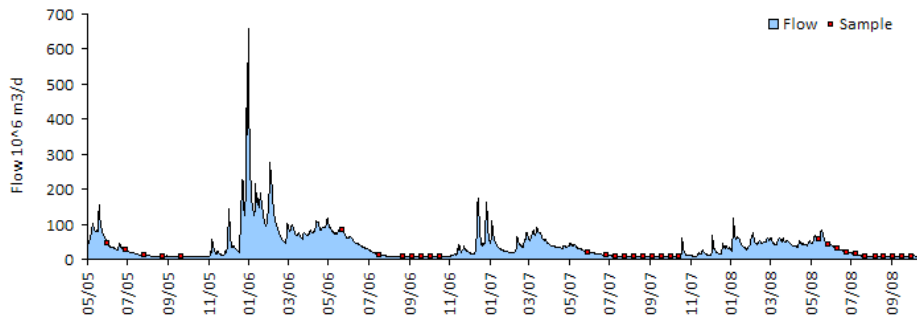
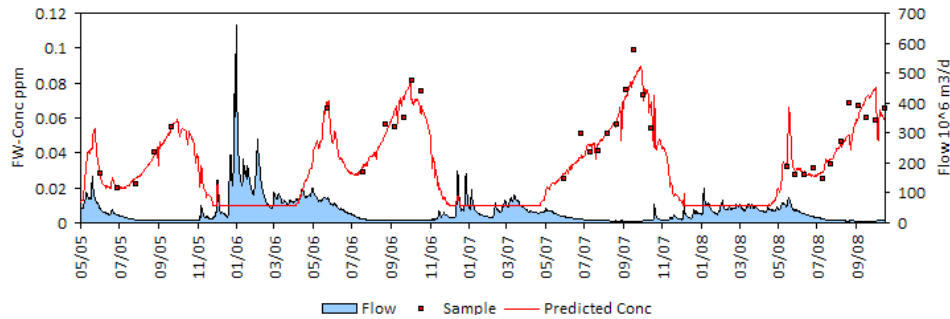
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

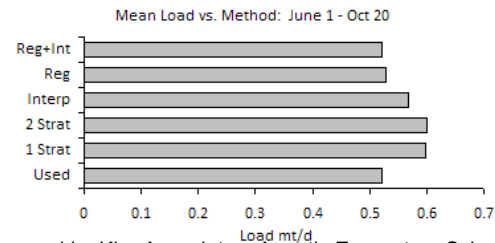
Daily Time Series:

Yearly Time Series:



Site: KR_bel_Trin KR_bel_Trin
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/15/08
 Samples 34
 Method: 5 - Regression + Interpolation

Variable: TP
 Mean Daily Flow 38.563 10⁶ m3/day
 Mean Daily Load 0.80 mt/day
 Flow-Wtd Conc 0.021 ppm
 Relative Std Error 2.1%
 Regression R2 89%
 Regression SE 0.17



Site: KR_Orleans

KR_Orleans

INORGN

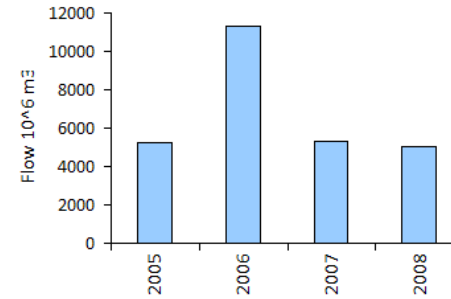
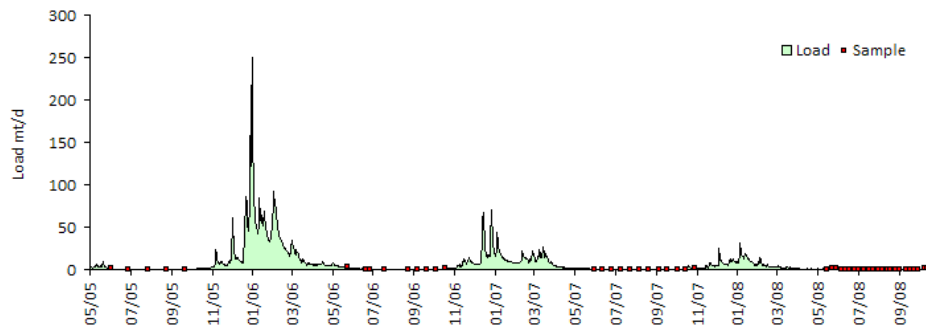
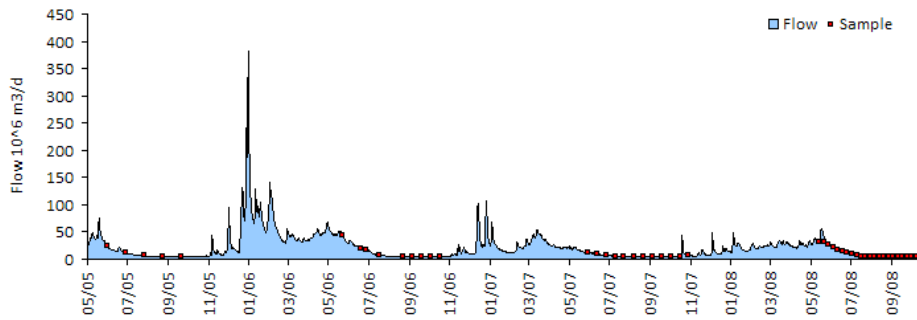
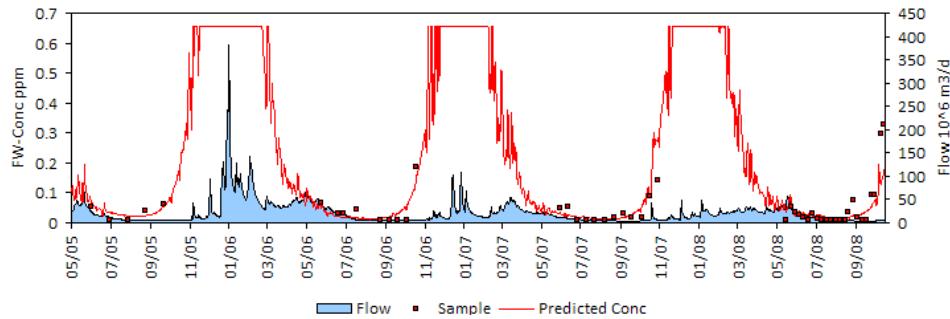
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

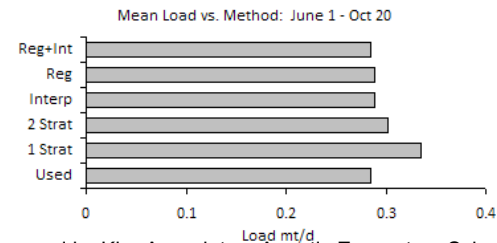
Daily Time Series:

Yearly Time Series:



Site: KR_Orleans KR_Orleans
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 49
 Method: 5 - Regression + Interpolation

Variable: INORGN
 Mean Daily Flow 21.331 10⁶ m³/day
 Mean Daily Load 7.15 mt/day
 Flow-Wtd Conc 0.335 ppm
 Relative Std Error 11.7%
 Regression R2 52%
 Regression SE 0.79



Site: KR_Orleans

KR_Orleans

ORGN

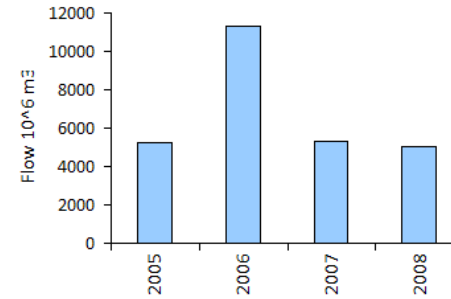
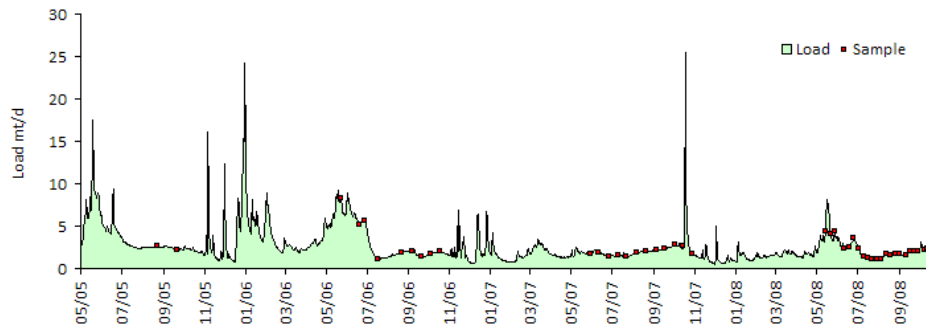
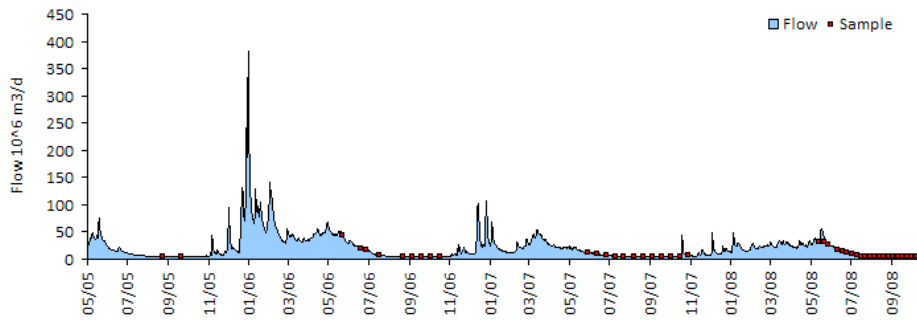
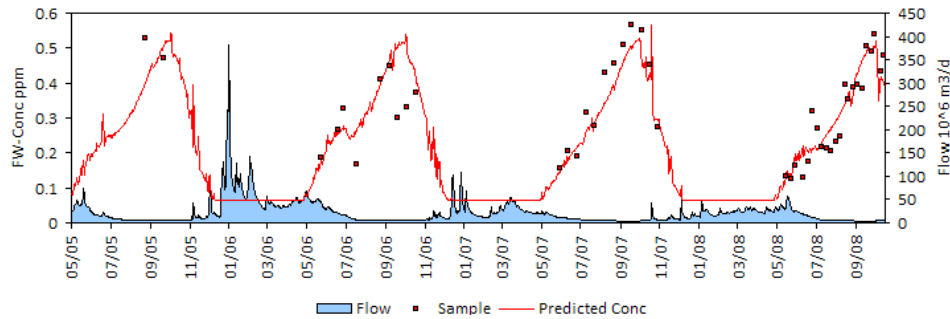
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

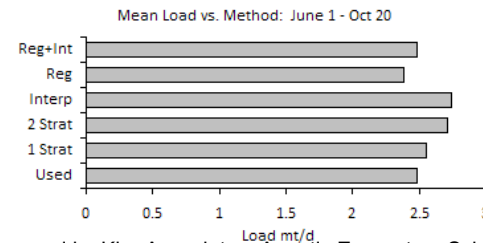
Daily Time Series:

Yearly Time Series:



Site: KR_Orleans KR_Orleans
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 08/24/05 10/14/08
 Samples 45
 Method: 5 - Regression + Interpolation

Variable: ORGN
 Mean Daily Flow 21.331 10^6 m3/day
 Mean Daily Load 2.67 mt/day
 Flow-Wtd Conc 0.125 ppm
 Relative Std Error 3.2%
 Regression R2 79%
 Regression SE 0.23



Site: KR_Orleans

KR_Orleans

PP

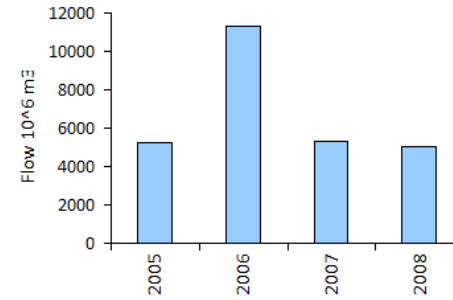
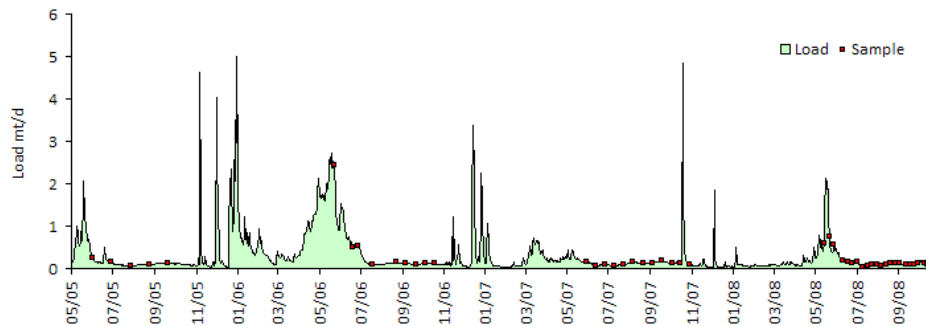
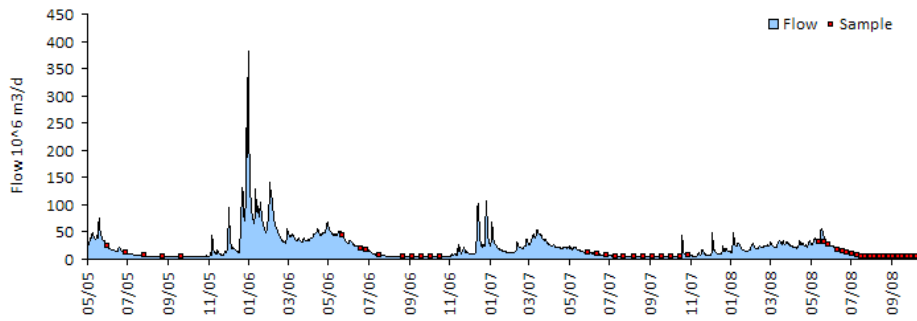
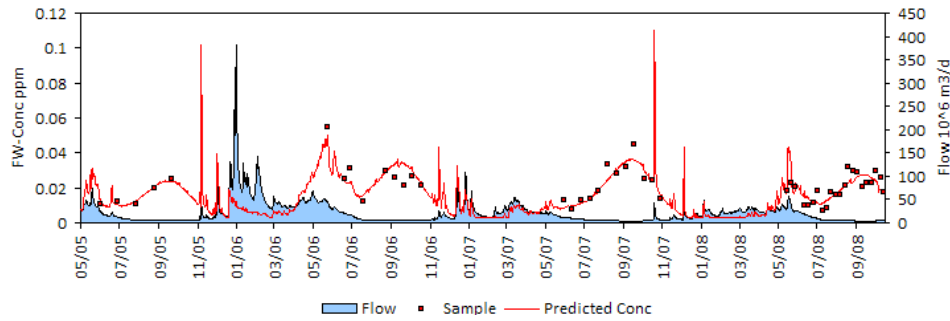
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

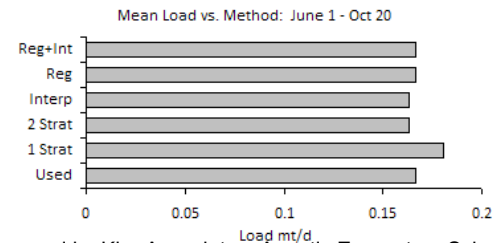
Daily Time Series:

Yearly Time Series:



Site: KR_Orleans KR_Orleans
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 48
 Method: 5 - Regression + Interpolation

Variable: PP
 Mean Daily Flow 21.331 10⁶ m³/day
 Mean Daily Load 0.31 mt/day
 Flow-Wtd Conc 0.015 ppm
 Relative Std Error 4.4%
 Regression R2 75%
 Regression SE 0.26



Site: KR_Orleans

KR_Orleans

SRP

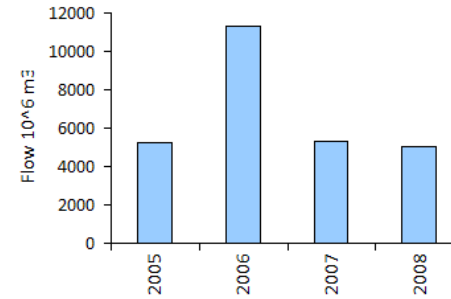
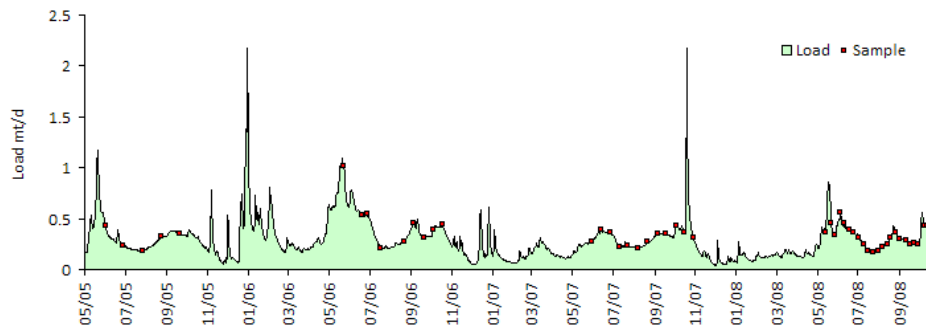
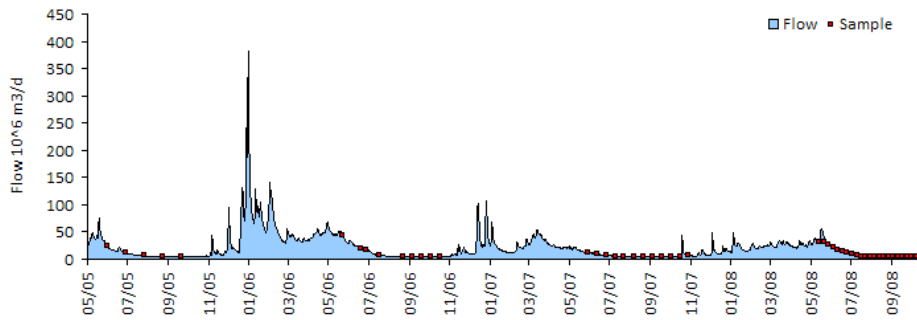
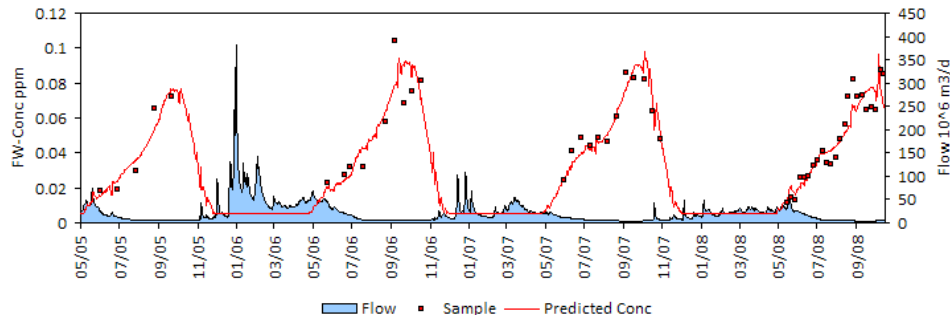
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

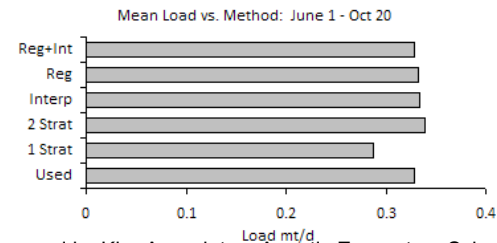
Daily Time Series:

Yearly Time Series:



Site: KR_Orleans KR_Orleans
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 49
 Method: 5 - Regression + Interpolation

Variable: SRP
 Mean Daily Flow 21.331 10^6 m^3/day
 Mean Daily Load 0.29 mt/day
 Flow-Wtd Conc 0.014 ppm
 Relative Std Error 2.8%
 Regression R2 92%
 Regression SE 0.18



Site: KR_Orleans

KR_Orleans

TN

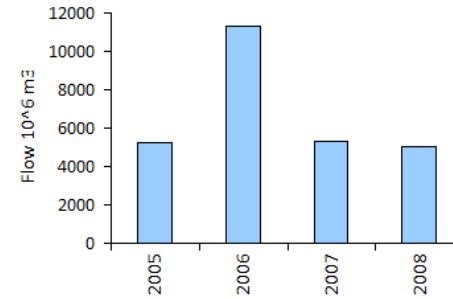
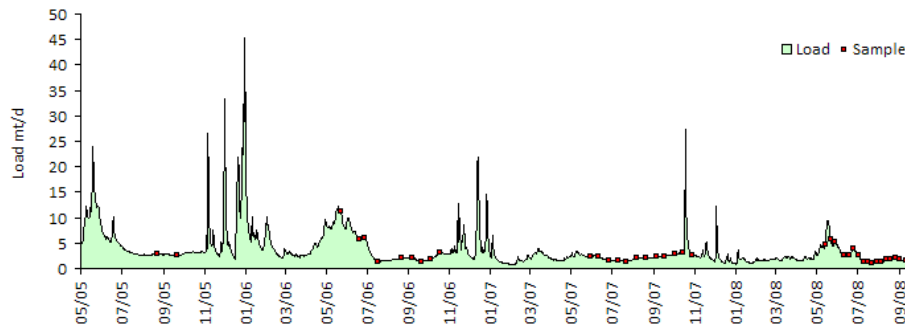
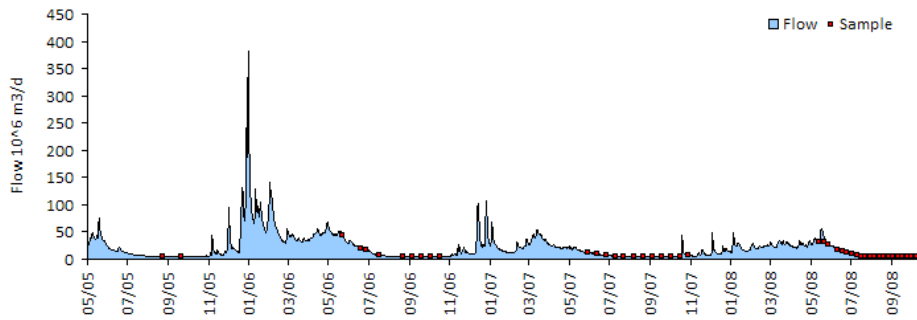
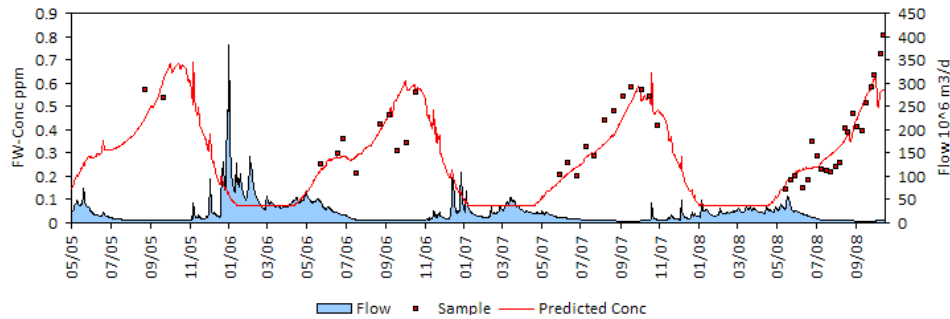
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

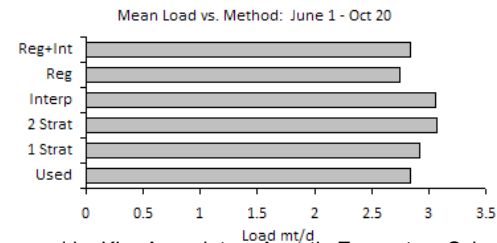
Daily Time Series:

Yearly Time Series:



Site: KR_Orleans KR_Orleans
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 08/24/05 10/14/08
 Samples 45
 Method: 5 - Regression + Interpolation

Variable: TN
 Mean Daily Flow 21.331 10⁶ m³/day
 Mean Daily Load 3.68 mt/day
 Flow-Wtd Conc 0.173 ppm
 Relative Std Error 3.6%
 Regression R2 75%
 Regression SE 0.25



Site: KR_Orleans

KR_Orleans

TP

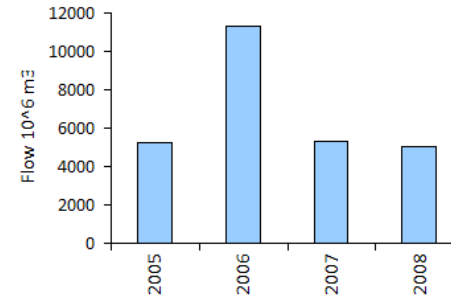
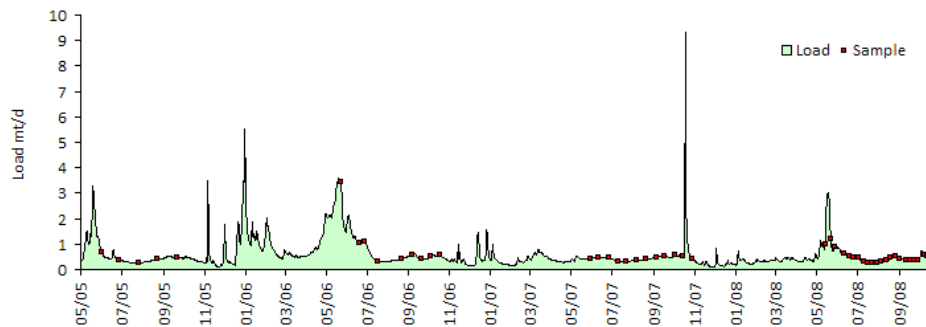
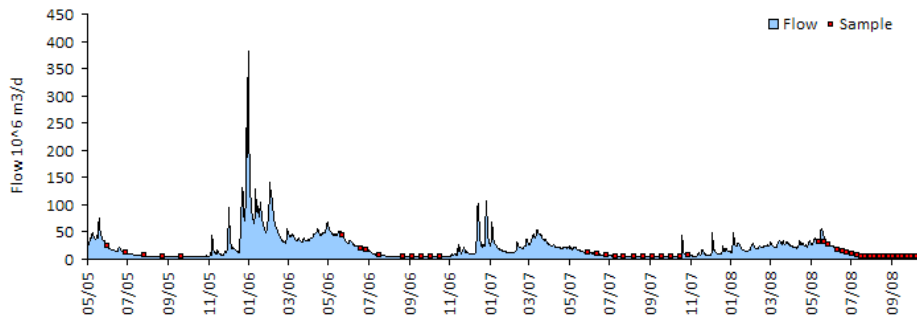
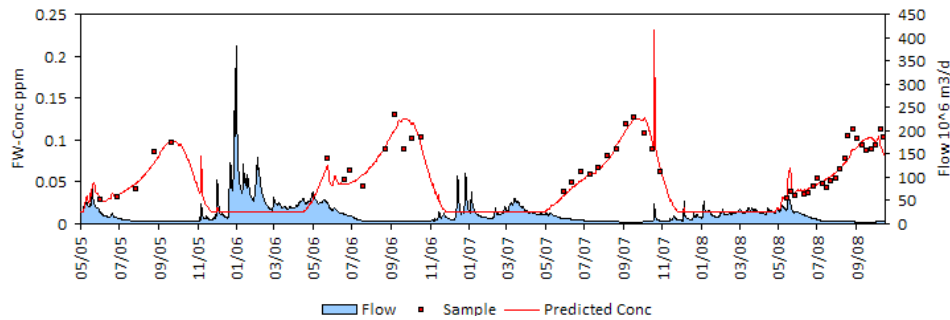
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

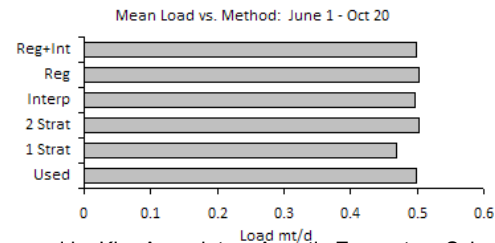
Daily Time Series:

Yearly Time Series:



Site: KR_Orleans KR_Orleans
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 48
 Method: 5 - Regression + Interpolation

Variable: TP
 Mean Daily Flow 21.331 10⁶ m³/day
 Mean Daily Load 0.59 mt/day
 Flow-Wtd Conc 0.028 ppm
 Relative Std Error 2.8%
 Regression R² 89%
 Regression SE 0.16



Site: KR_Seiad

KR_Seiad

INORGN

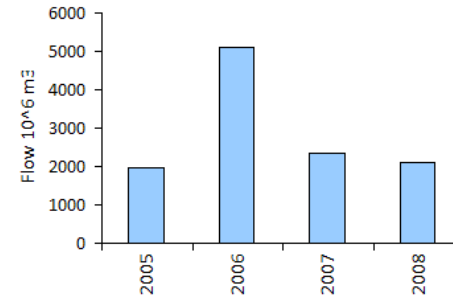
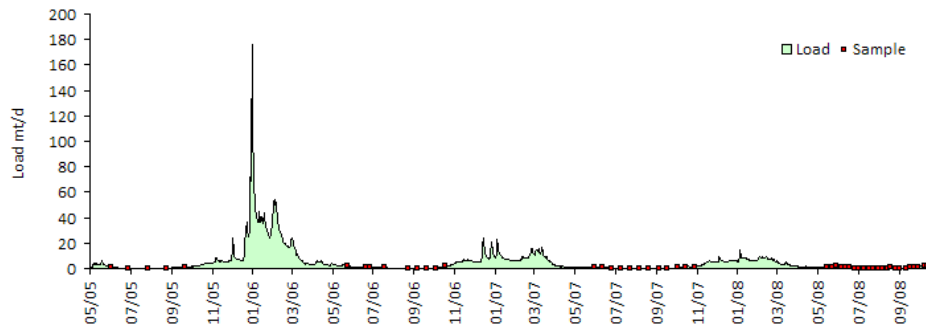
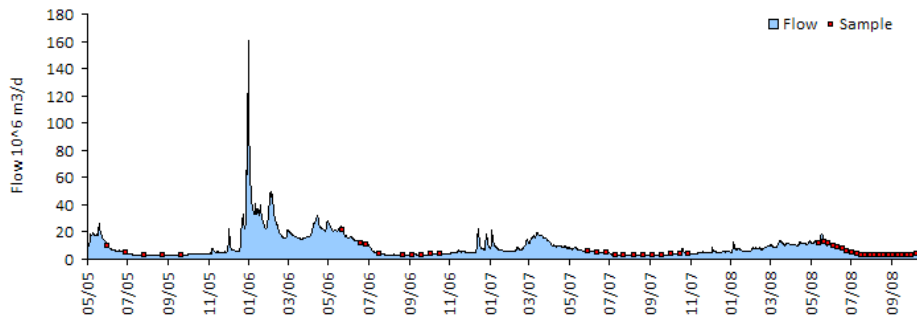
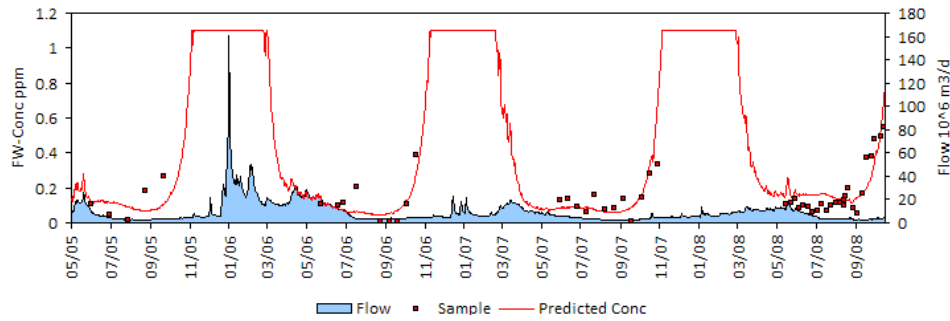
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

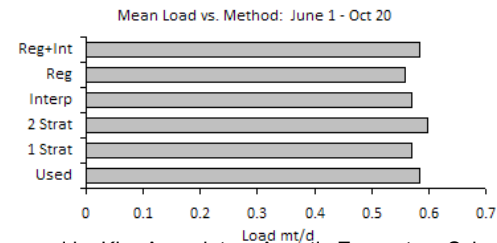
Daily Time Series:

Yearly Time Series:



Site: KR_Seiad KR_Seiad
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 51
 Method: 5 - Regression + Interpolation

Variable: INORGN
 Mean Daily Flow 9.115 10⁶ m³/day
 Mean Daily Load 5.04 mt/day
 Flow-Wtd Conc 0.553 ppm
 Relative Std Error 8.0%
 Regression R2 40%
 Regression SE 0.83



Site: KR_Seiad

KR_Seiad

ORGN

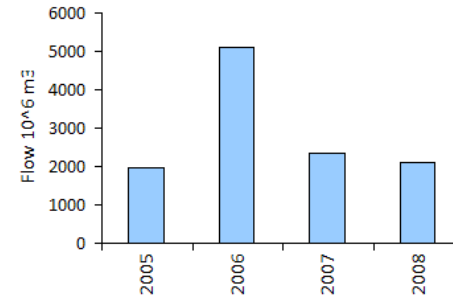
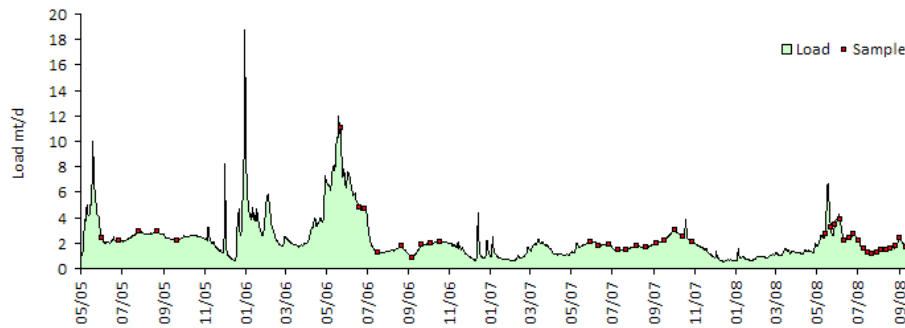
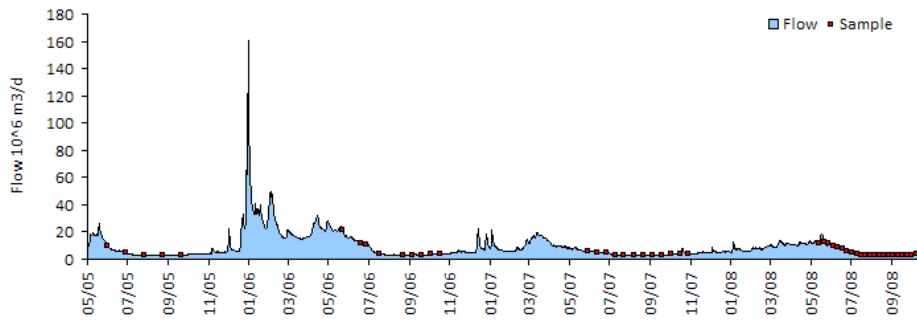
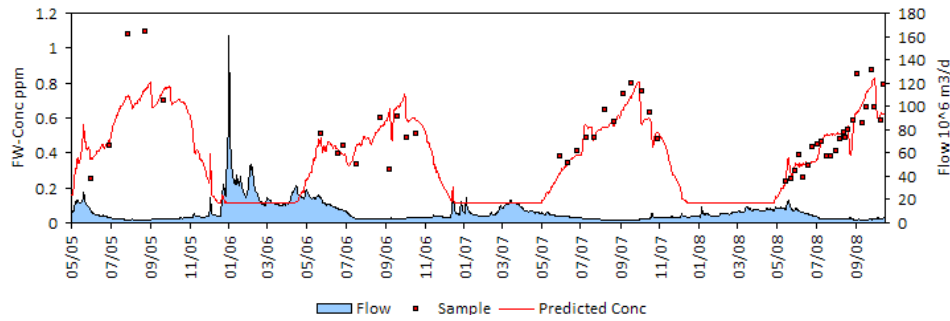
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

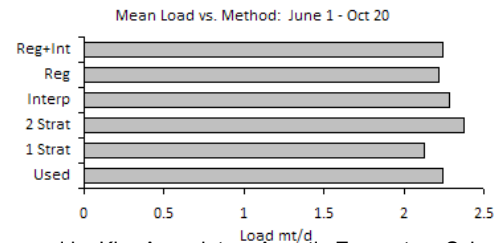
Daily Time Series:

Yearly Time Series:



Site: KR_Seiad KR_Seiad
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 51
 Method: 5 - Regression + Interpolation

Variable: ORGN
 Mean Daily Flow 9.115 10⁶ m³/day
 Mean Daily Load 2.26 mt/day
 Flow-Wtd Conc 0.248 ppm
 Relative Std Error 2.8%
 Regression R2 68%
 Regression SE 0.23



Site: KR_Seiad

KR_Seiad

PP

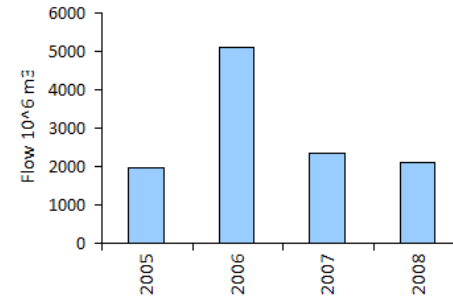
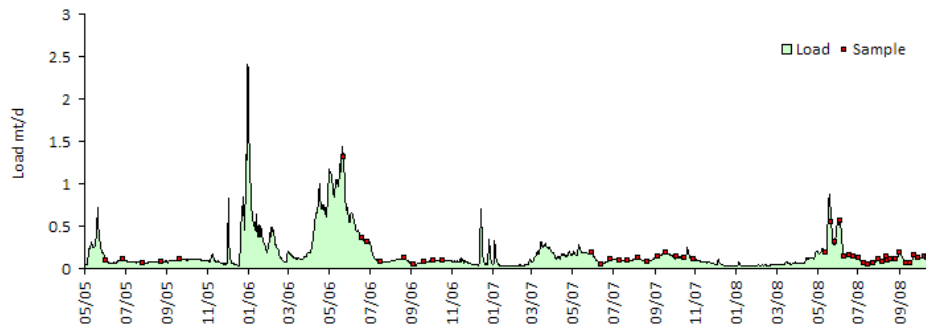
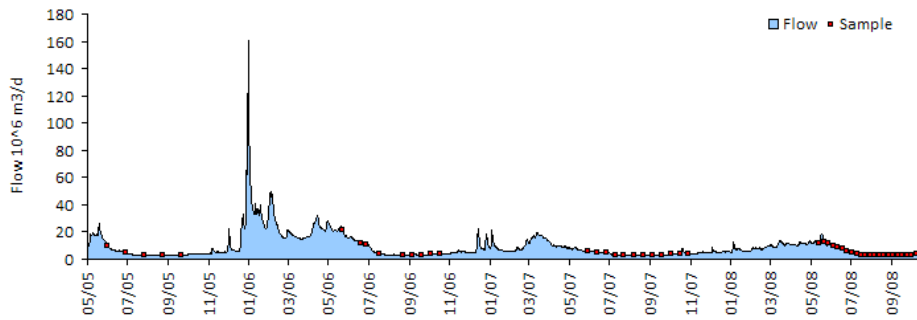
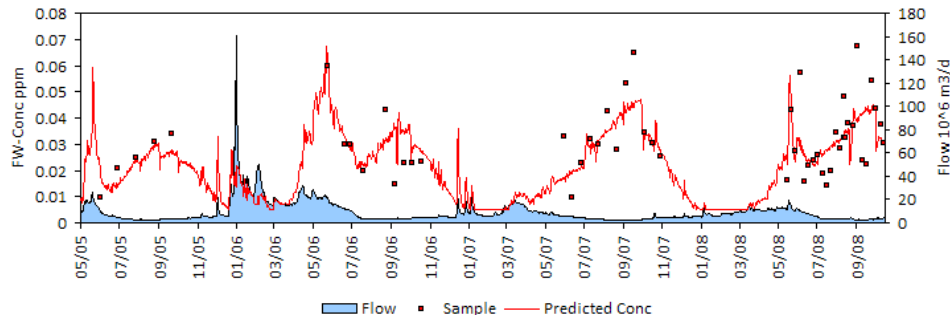
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

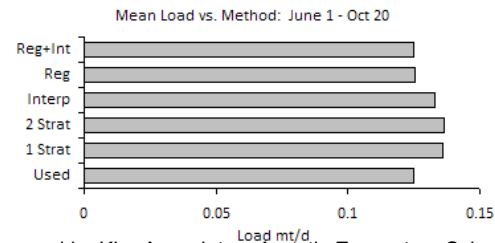
Daily Time Series:

Yearly Time Series:



Site: KR_Seiad KR_Seiad
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 51
 Method: 5 - Regression + Interpolation

Variable: PP
 Mean Daily Flow 9.115 10^6 m3/day
 Mean Daily Load 0.18 mt/day
 Flow-Wtd Conc 0.019 ppm
 Relative Std Error 4.9%
 Regression R2 41%
 Regression SE 0.37



Site: KR_Seiad

KR_Seiad

SRP

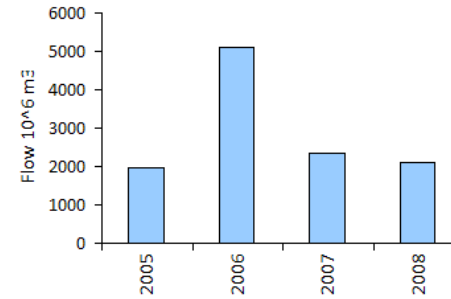
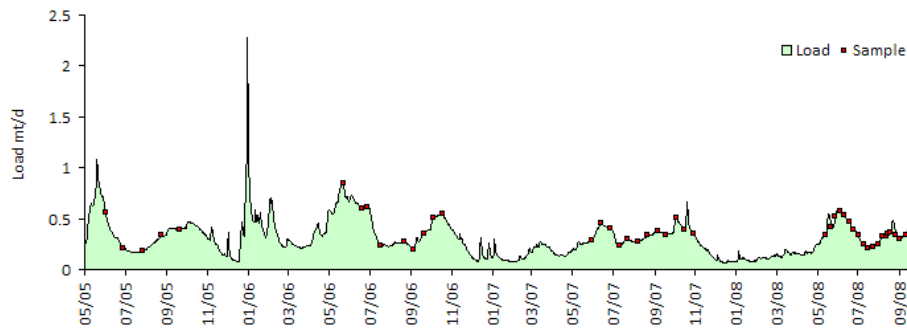
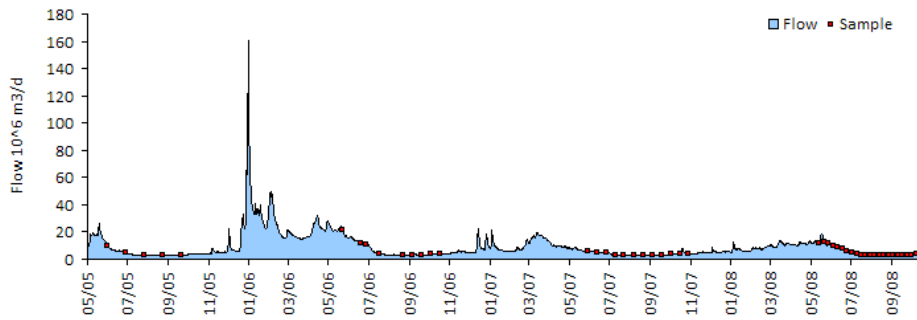
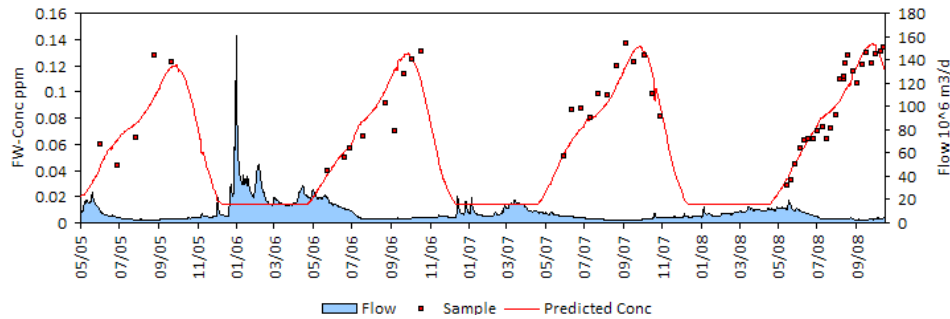
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

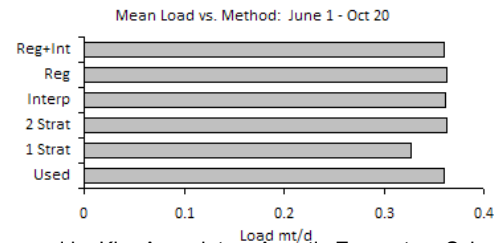
Daily Time Series:

Yearly Time Series:



Site: KR_Seiad KR_Seiad
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 51
 Method: 5 - Regression + Interpolation

Variable: SRP
 Mean Daily Flow 9.115 10⁶ m³/day
 Mean Daily Load 0.31 mt/day
 Flow-Wtd Conc 0.034 ppm
 Relative Std Error 2.3%
 Regression R2 84%
 Regression SE 0.18



Site: KR_Seiad

KR_Seiad

TN

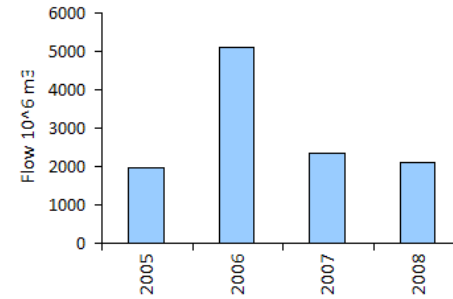
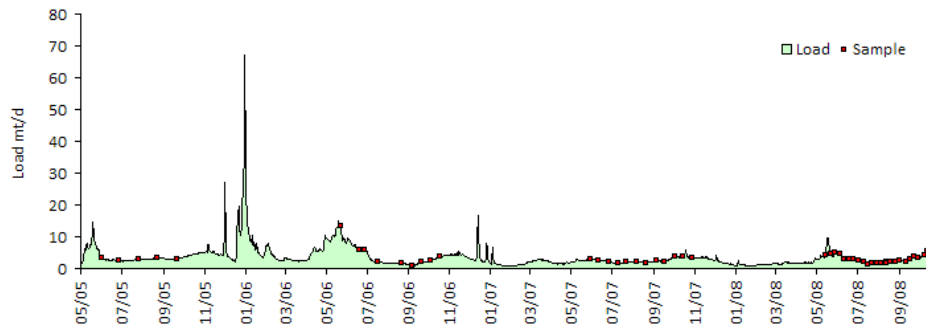
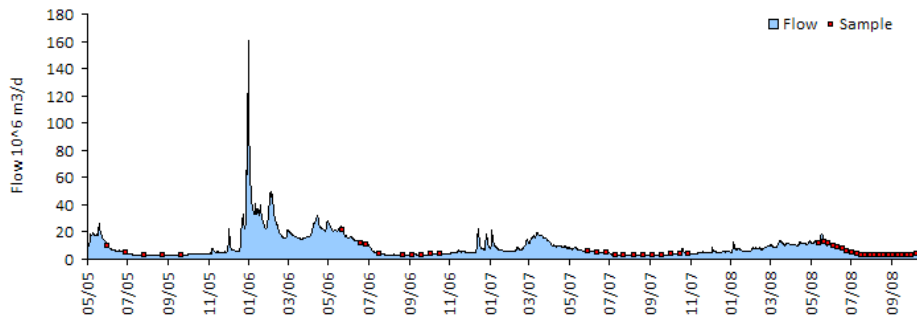
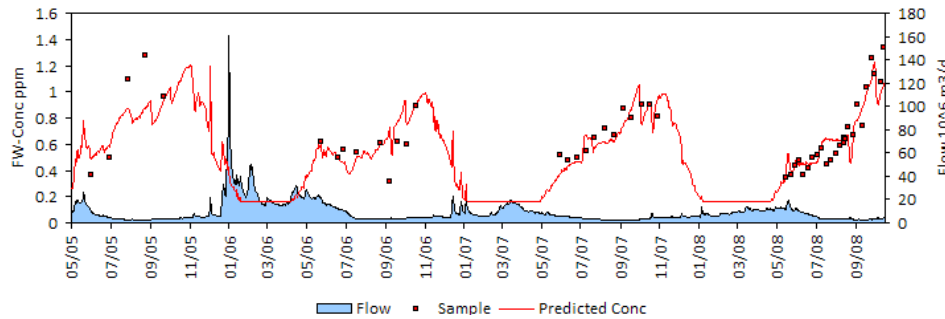
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

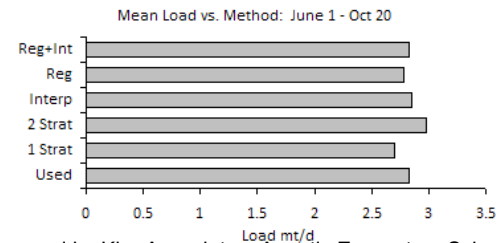
Daily Time Series:

Yearly Time Series:



Site: KR_Seiad KR_Seiad
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 51
 Method: 5 - Regression + Interpolation

Variable: TN
 Mean Daily Flow 9.115 10⁶ m³/day
 Mean Daily Load 3.50 mt/day
 Flow-Wtd Conc 0.384 ppm
 Relative Std Error 2.5%
 Regression R2 71%
 Regression SE 0.22



Site: KR_Seiad

KR_Seiad

TP

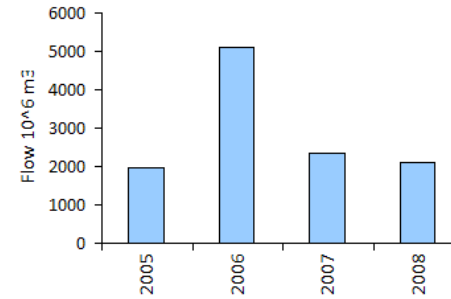
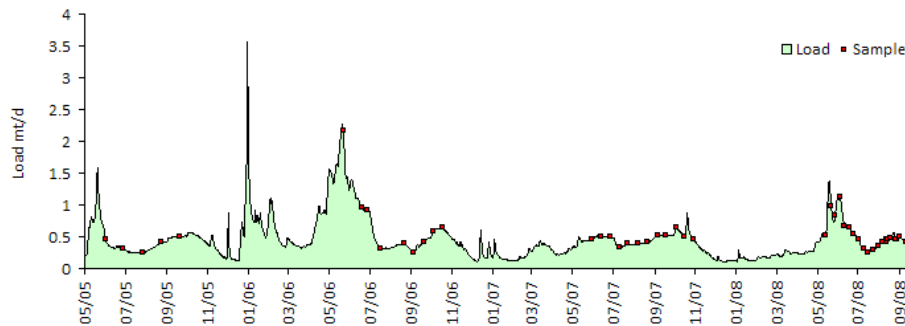
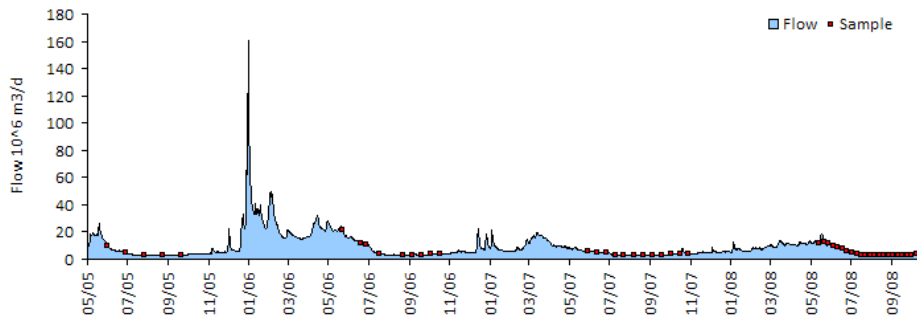
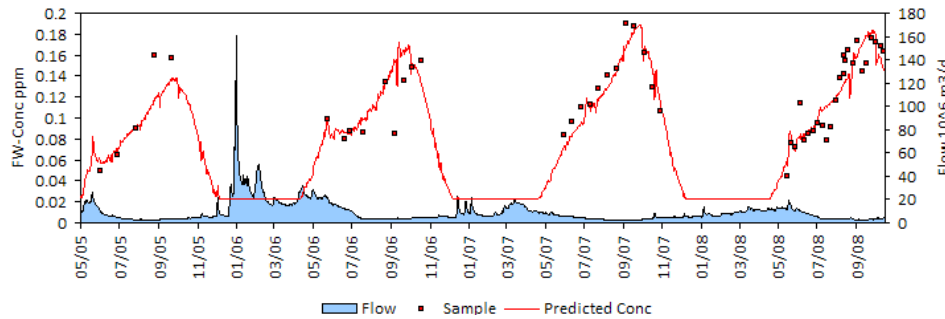
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

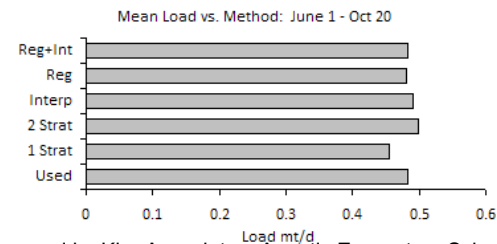
Daily Time Series:

Yearly Time Series:



Site: KR_Seiad KR_Seiad
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 51
 Method: 5 - Regression + Interpolation

Variable: TP
 Mean Daily Flow 9.115 10⁶ m³/day
 Mean Daily Load 0.46 mt/day
 Flow-Wtd Conc 0.051 ppm
 Relative Std Error 2.1%
 Regression R2 80%
 Regression SE 0.17



Site: KR_Turwar

KR_Turwar

INORGN

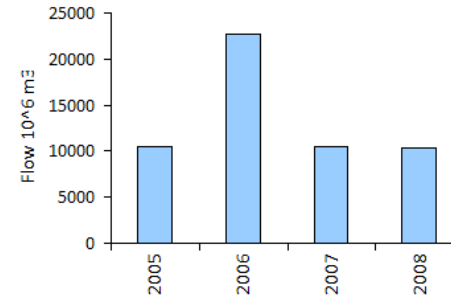
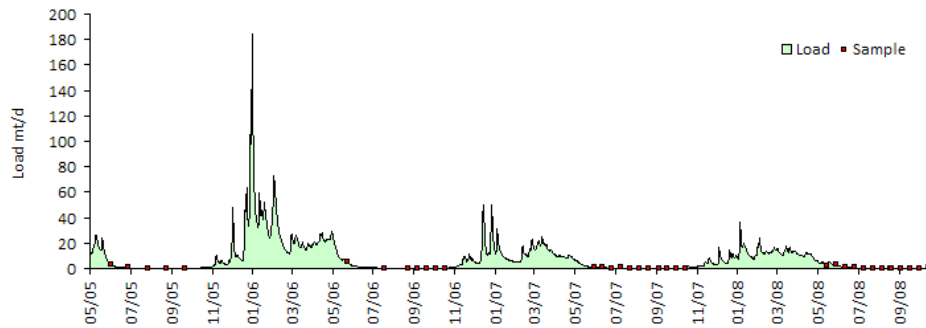
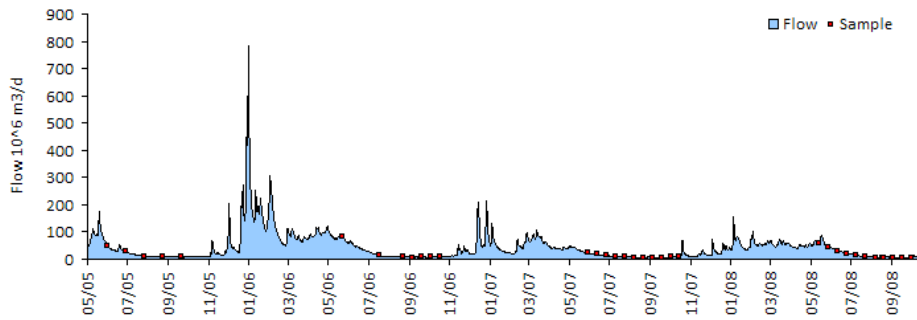
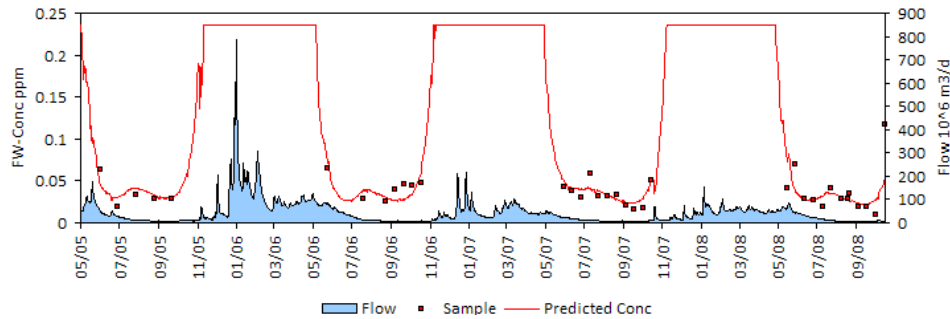
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

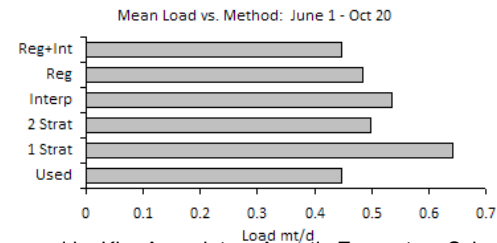
Daily Time Series:

Yearly Time Series:



Site: KR_Turwar KR_Turwar
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/15/08
 Samples 36
 Method: 5 - Regression + Interpolation

Variable: INORGN
 Mean Daily Flow 42.722 10^6 m3/day
 Mean Daily Load 7.89 mt/day
 Flow-Wtd Conc 0.185 ppm
 Relative Std Error 12.6%
 Regression R2 42%
 Regression SE 0.44



Site: KR_Turwar

KR_Turwar

ORGN

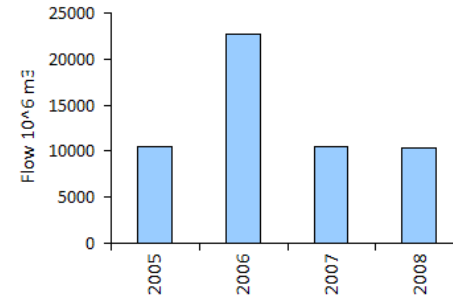
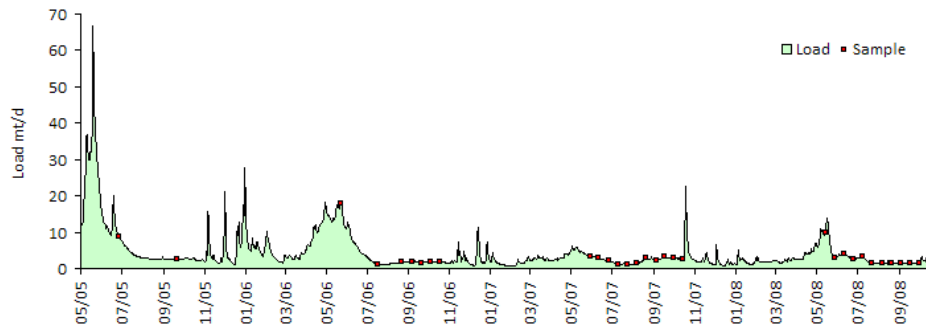
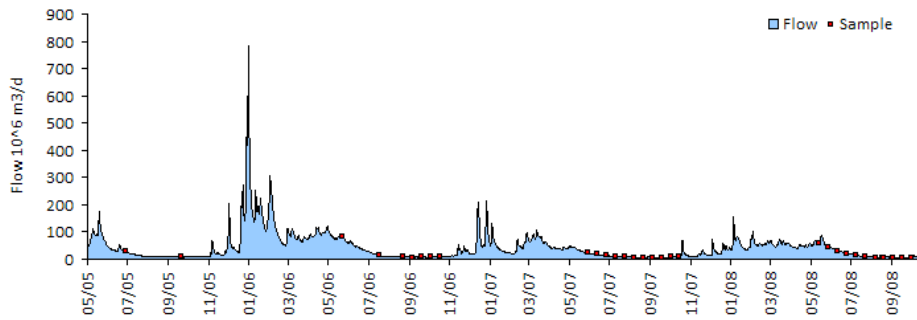
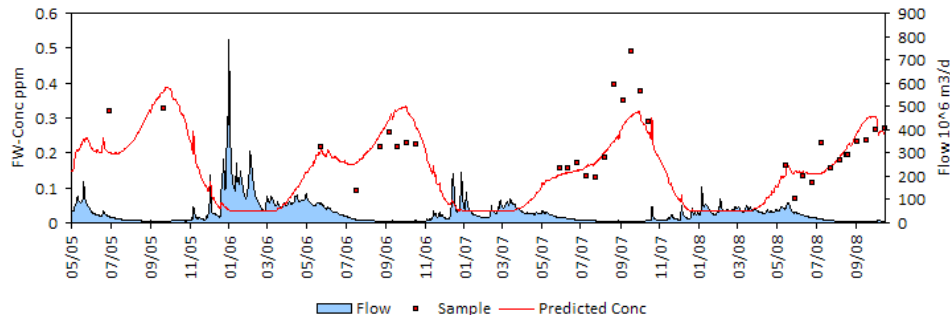
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

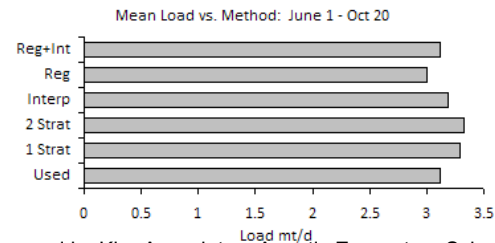
Daily Time Series:

Yearly Time Series:



Site: KR_Turwar KR_Turwar
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/28/05 10/15/08
 Samples 33
 Method: 5 - Regression + Interpolation

Variable: ORGN
 Mean Daily Flow 42.722 10⁶ m³/day
 Mean Daily Load 4.35 mt/day
 Flow-Wtd Conc 0.102 ppm
 Relative Std Error 7.0%
 Regression R2 53%
 Regression SE 0.36



Site: KR_Turwar

KR_Turwar

PP

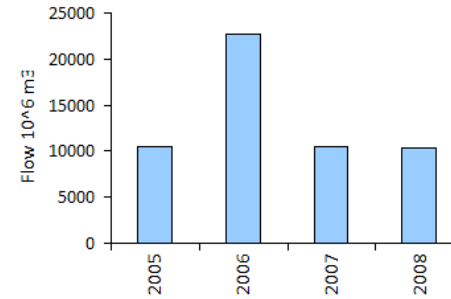
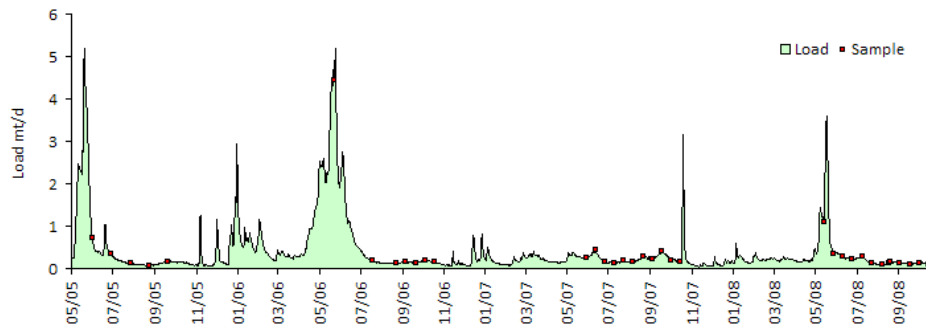
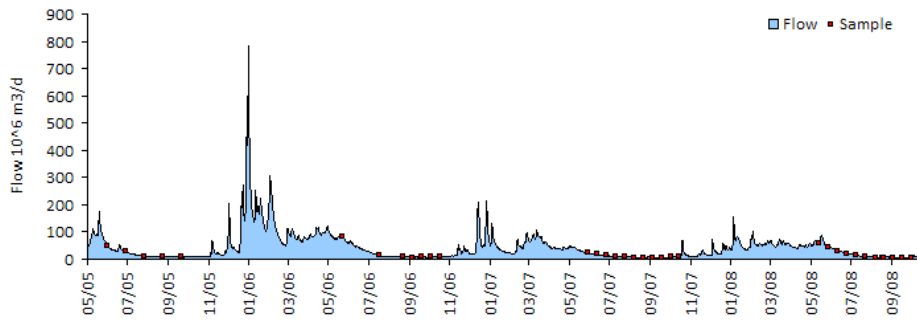
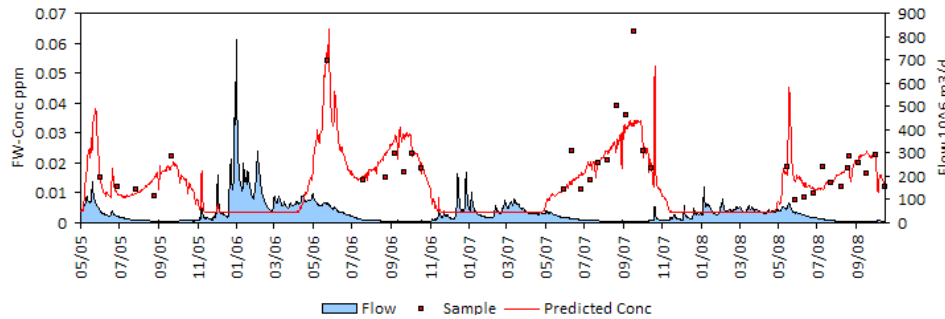
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

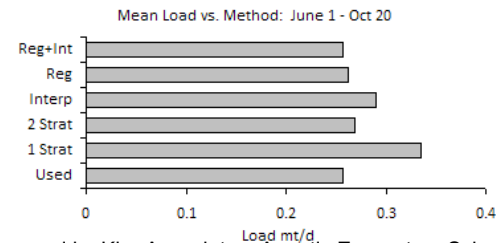
Daily Time Series:

Yearly Time Series:



Site: KR_Turwar KR_Turwar
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/15/08
 Samples 36
 Method: 5 - Regression + Interpolation

Variable: PP
 Mean Daily Flow 42.722 10⁶ m³/day
 Mean Daily Load 0.41 mt/day
 Flow-Wtd Conc 0.010 ppm
 Relative Std Error 4.6%
 Regression R2 60%
 Regression SE 0.36



Site: KR_Turwar

KR_Turwar

SRP

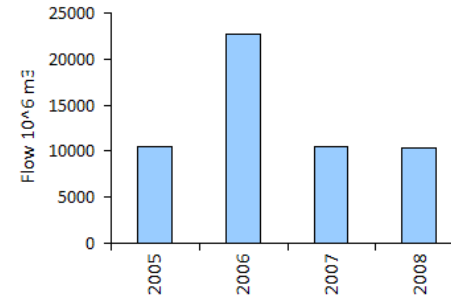
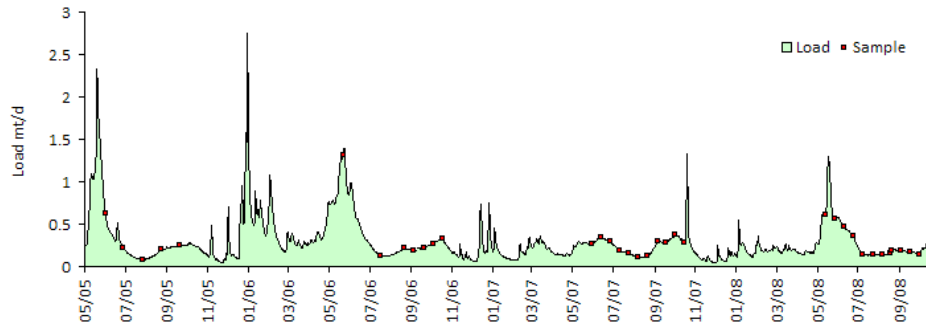
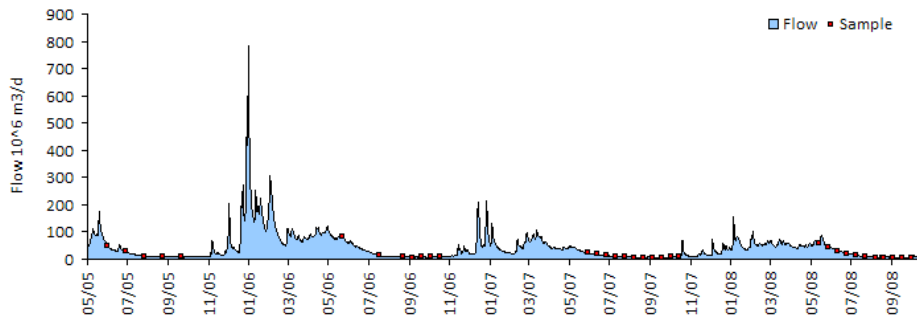
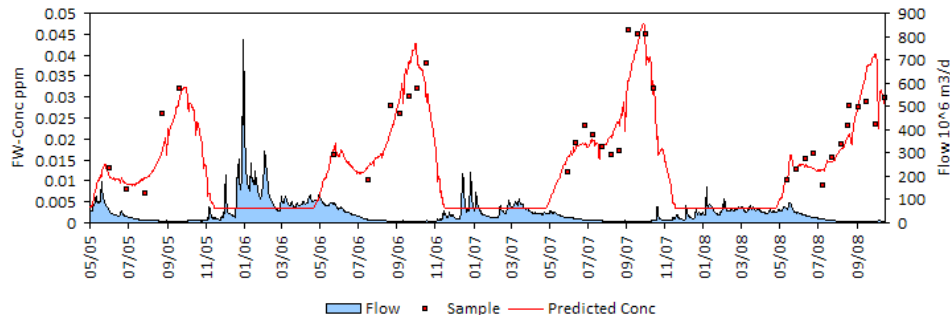
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

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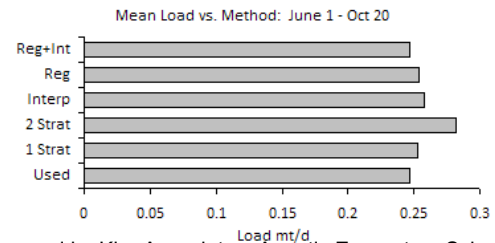
Daily Time Series:

Yearly Time Series:



Site: KR_Turwar KR_Turwar
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/15/08
 Samples 36
 Method: 5 - Regression + Interpolation

Variable: SRP
 Mean Daily Flow 42.722 10⁶ m3/day
 Mean Daily Load 0.29 mt/day
 Flow-Wtd Conc 0.007 ppm
 Relative Std Error 3.5%
 Regression R2 80%
 Regression SE 0.26



Site: KR_Turwar

KR_Turwar

TN

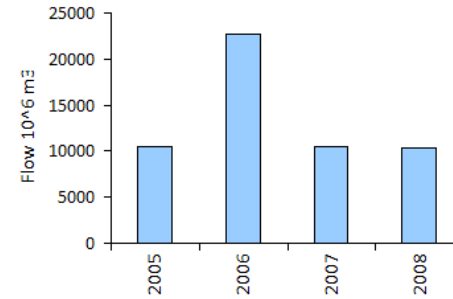
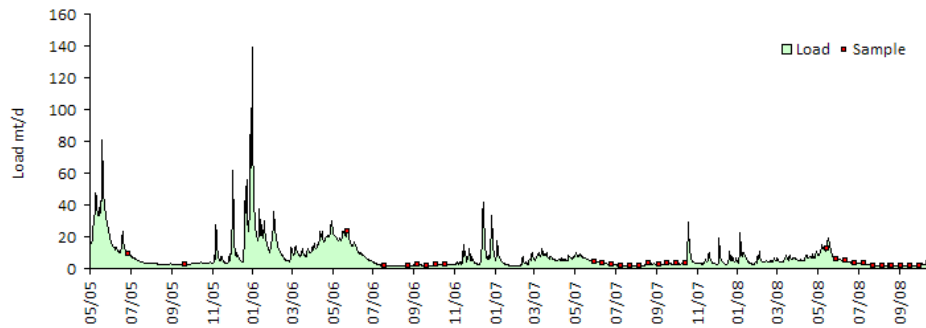
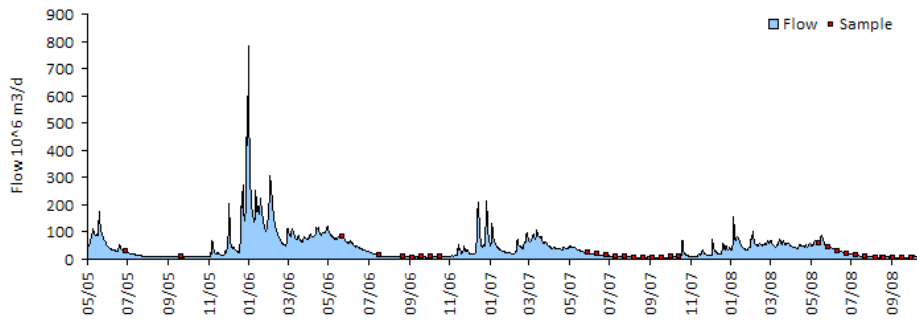
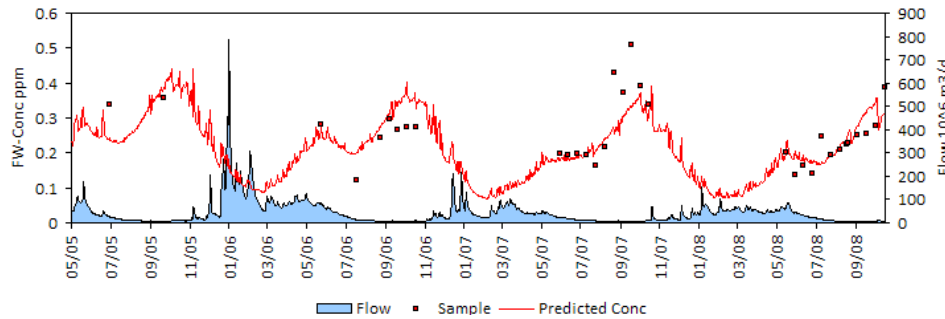
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

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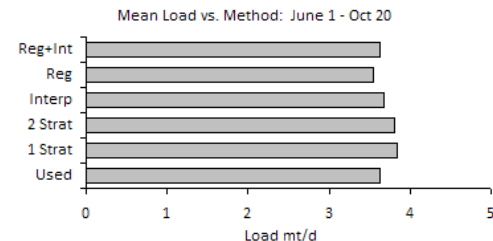
Daily Time Series:

Yearly Time Series:



Site: KR_Turwar KR_Turwar
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/28/05 10/15/08
 Samples 33
 Method: 5 - Regression + Interpolation

Variable: TN
 Mean Daily Flow 42.722 10⁶ m³/day
 Mean Daily Load 7.62 mt/day
 Flow-Wtd Conc 0.178 ppm
 Relative Std Error 4.9%
 Regression R2 55%
 Regression SE 0.28



Site: KR_Turwar

KR_Turwar

TP

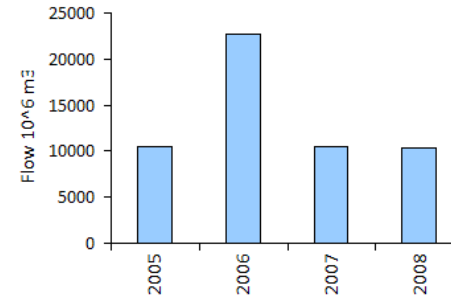
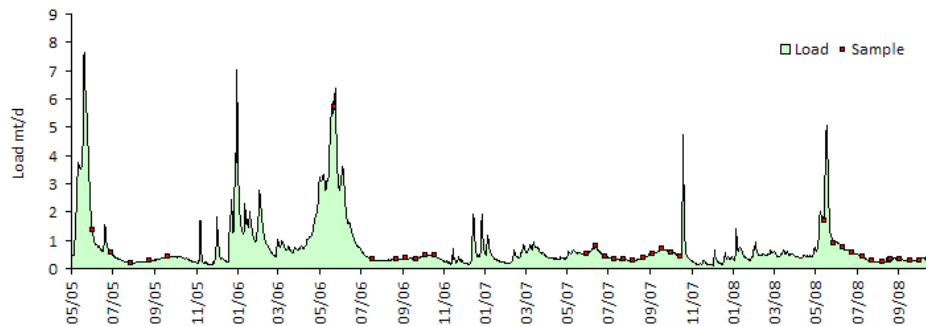
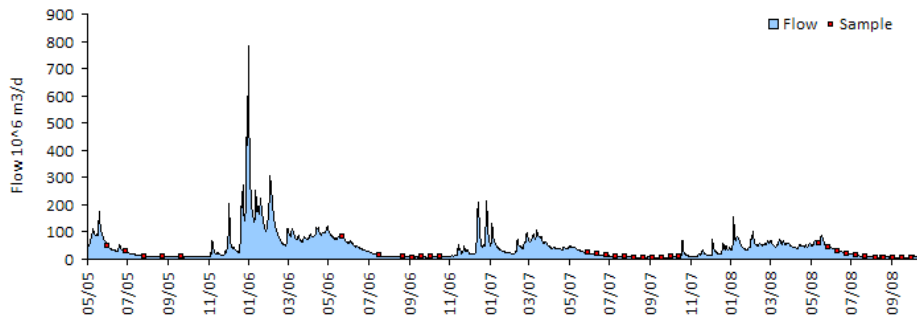
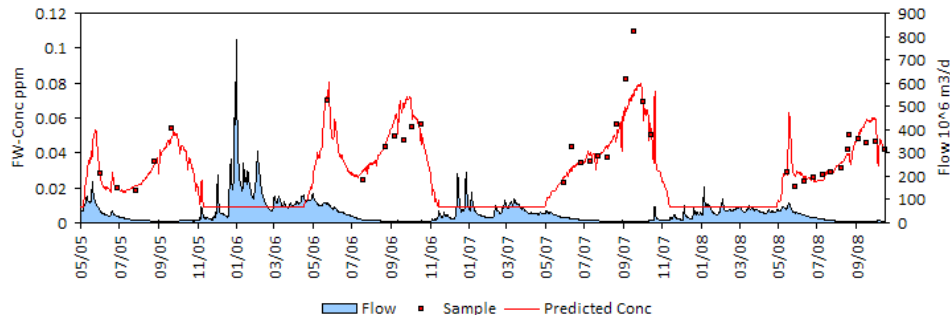
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

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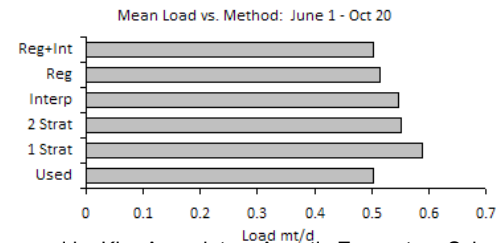
Daily Time Series:

Yearly Time Series:



Site: KR_Turwar KR_Turwar
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/15/08
 Samples 36
 Method: 5 - Regression + Interpolation

Variable: TP
 Mean Daily Flow 42.722 10⁶ m³/day
 Mean Daily Load 0.75 mt/day
 Flow-Wtd Conc 0.018 ppm
 Relative Std Error 2.8%
 Regression R2 83%
 Regression SE 0.20



Site: KR_Walker

KR_Walker

INORGN

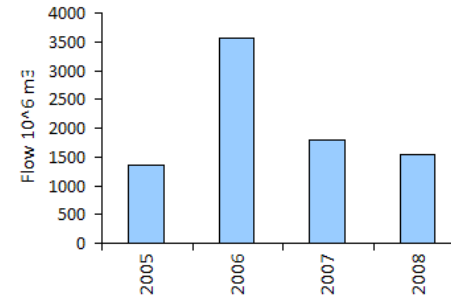
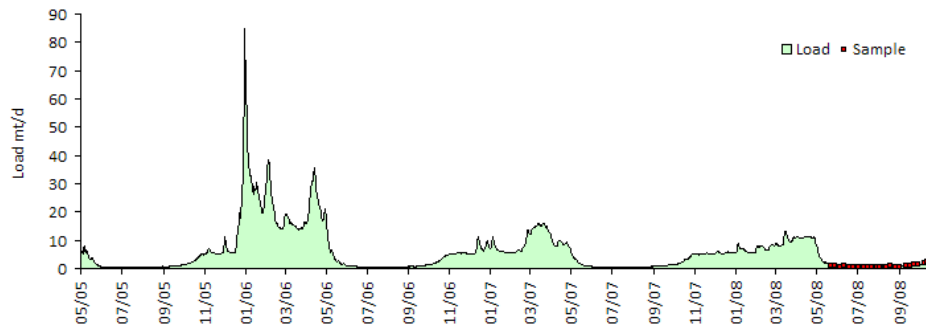
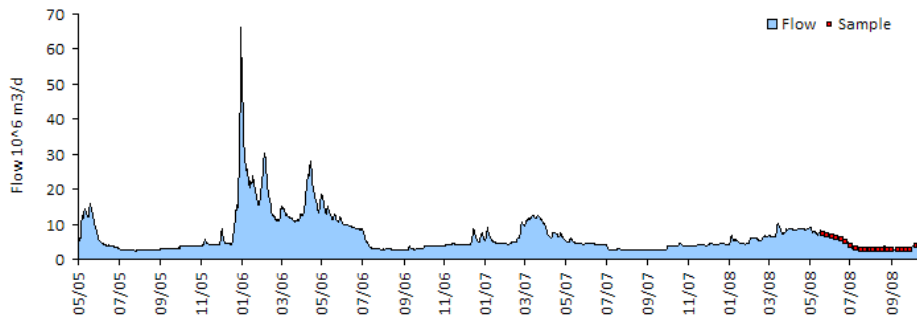
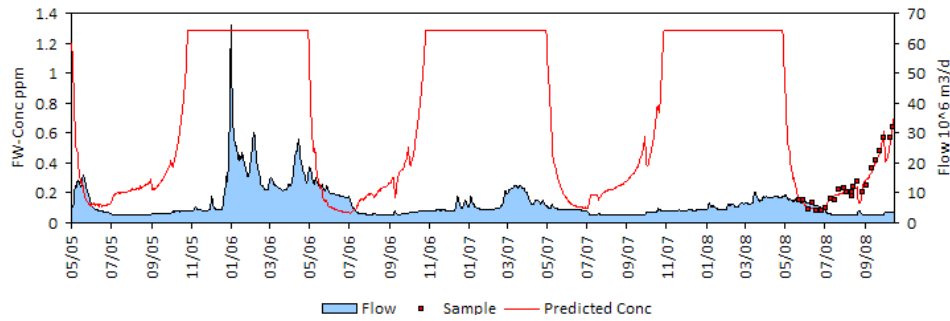
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

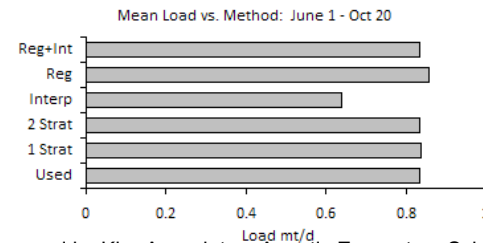
Daily Time Series:

Yearly Time Series:



Site: KR_Walker KR_Walker
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/22/08 10/14/08
 Samples 24
 Method: 5 - Regression + Interpolation

Variable: INORGN
 Mean Daily Flow 6.542 10^6 m3/day
 Mean Daily Load 5.83 mt/day
 Flow-Wtd Conc 0.892 ppm
 Relative Std Error 2.6%
 Regression R2 96%
 Regression SE 0.16



Site: KR_Walker

KR_Walker

ORGN

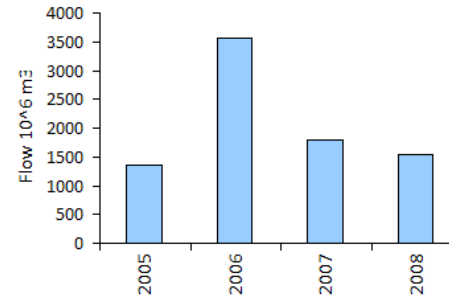
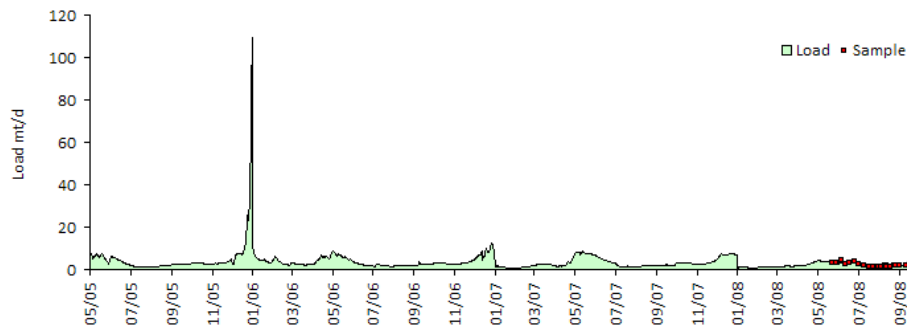
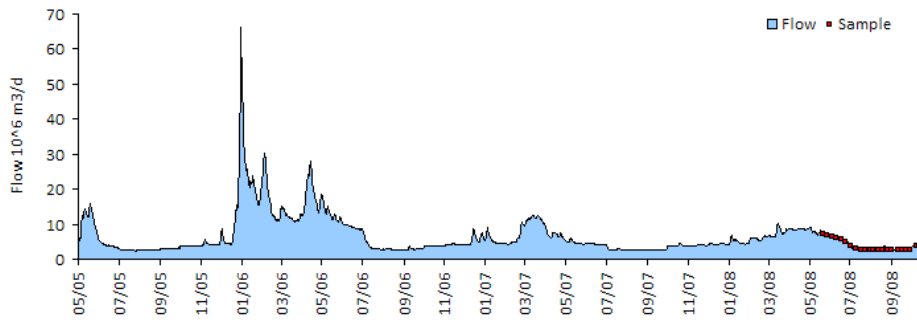
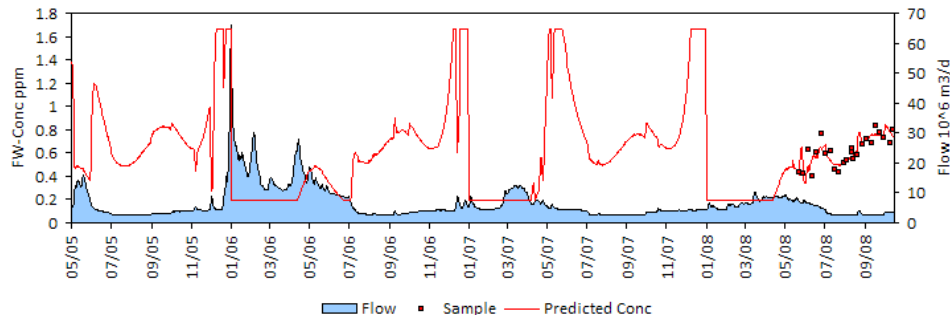
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

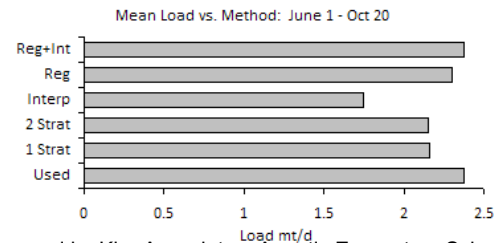
Daily Time Series:

Yearly Time Series:



Site: KR_Walker KR_Walker
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/22/08 10/14/08
 Samples 24
 Method: 5 - Regression + Interpolation

Variable: ORGN
 Mean Daily Flow 6.542 10⁶ m³/day
 Mean Daily Load 3.45 mt/day
 Flow-Wtd Conc 0.527 ppm
 Relative Std Error 3.9%
 Regression R2 69%
 Regression SE 0.15



Site: KR_Walker

KR_Walker

PP

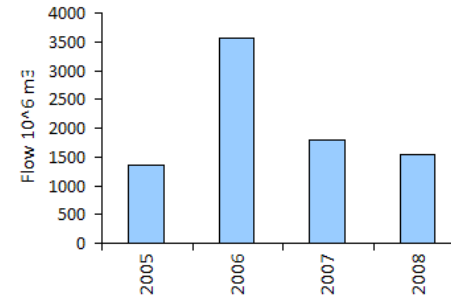
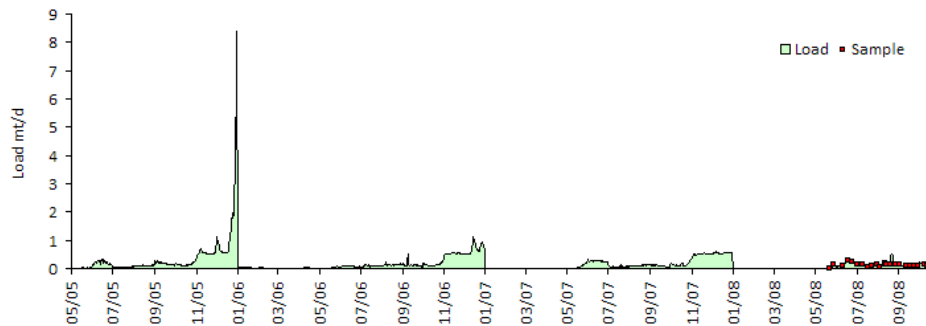
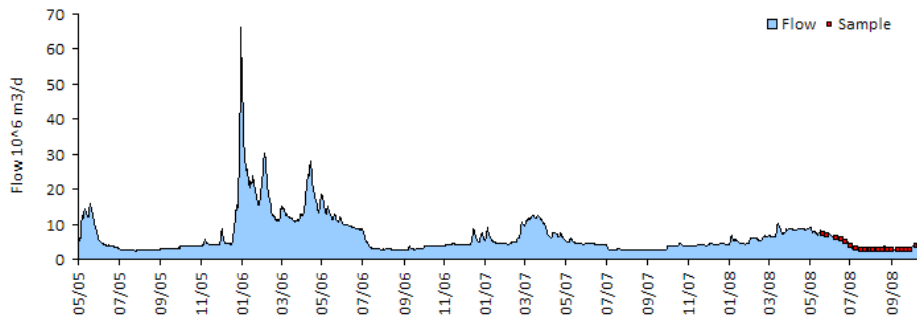
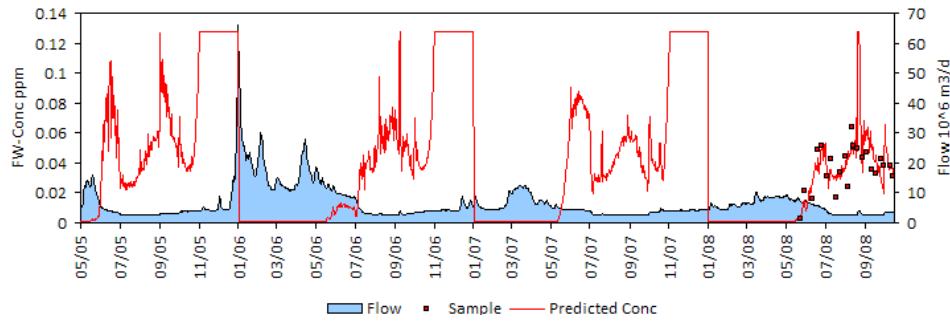
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

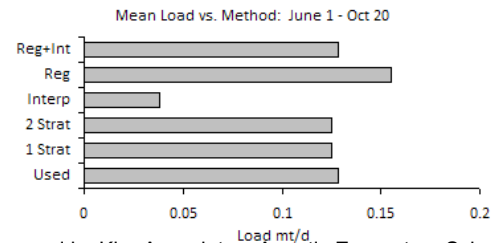
Daily Time Series:

Yearly Time Series:



Site: KR_Walker KR_Walker
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/22/08 10/14/08
 Samples 23
 Method: 5 - Regression + Interpolation

Variable: PP
 Mean Daily Flow 6.542 10⁶ m³/day
 Mean Daily Load 0.18 mt/day
 Flow-Wtd Conc 0.027 ppm
 Relative Std Error 7.3%
 Regression R2 81%
 Regression SE 0.39



Site: KR_Walker

KR_Walker

SRP

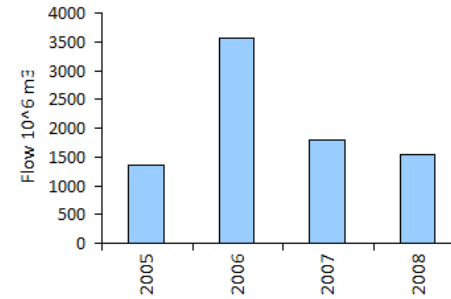
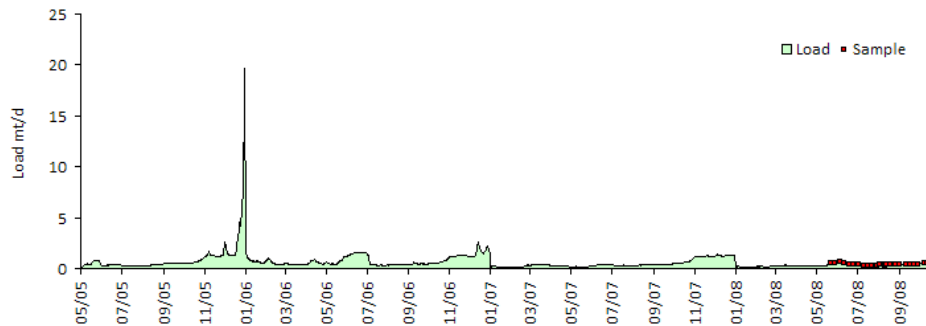
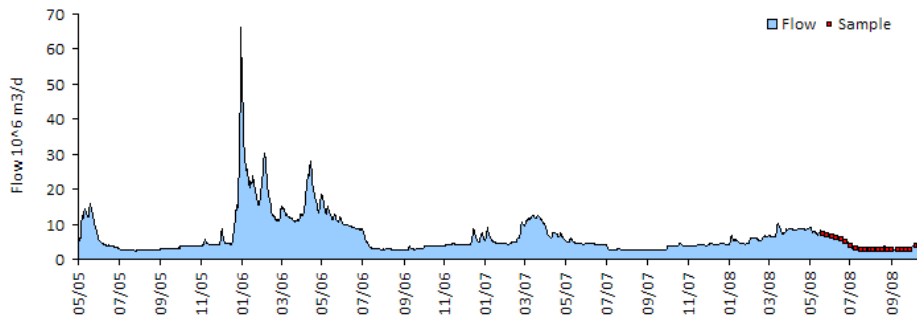
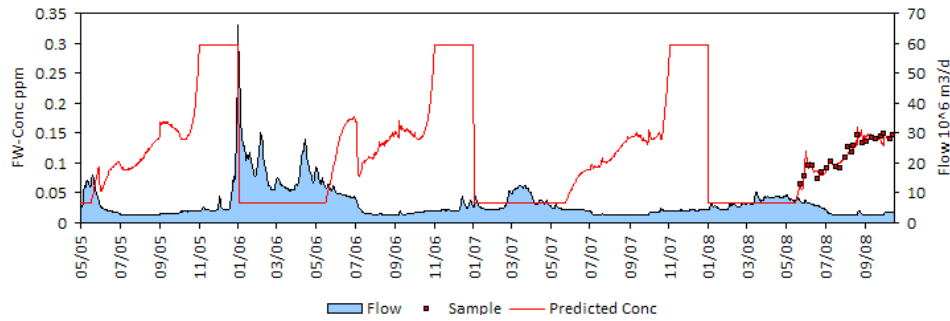
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

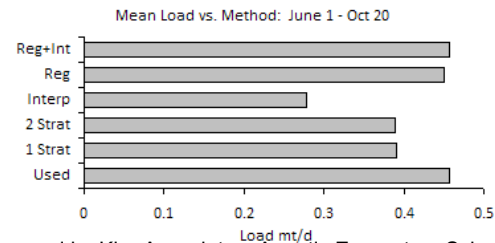
Daily Time Series:

Yearly Time Series:



Site: KR_Walker KR_Walker
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/22/08 10/14/08
 Samples 24
 Method: 5 - Regression + Interpolation

Variable: SRP
 Mean Daily Flow 6.542 10⁶ m³/day
 Mean Daily Load 0.62 mt/day
 Flow-Wtd Conc 0.094 ppm
 Relative Std Error 1.5%
 Regression R2 95%
 Regression SE 0.07



Site: KR_Walker

KR_Walker

TN

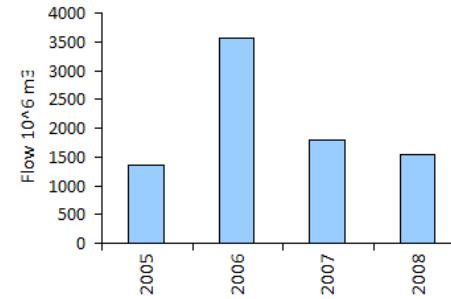
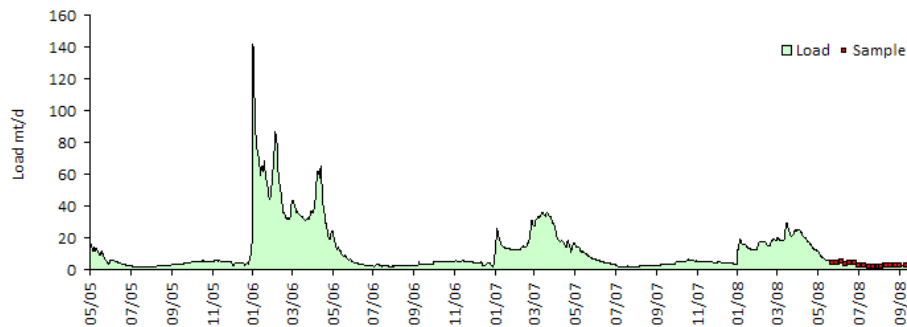
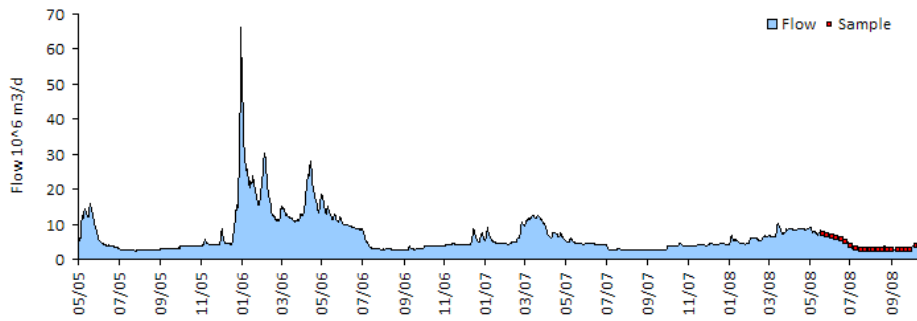
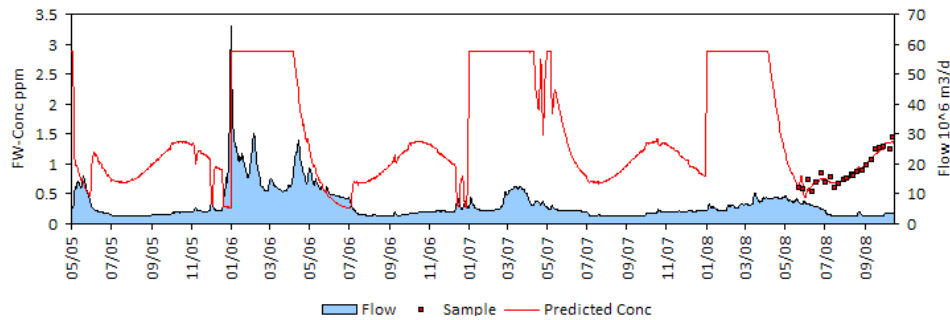
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

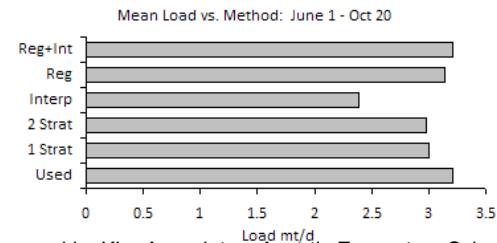
Daily Time Series:

Yearly Time Series:



Site: KR_Walker KR_Walker
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/22/08 10/14/08
 Samples 24
 Method: 5 - Regression + Interpolation

Variable: TN
 Mean Daily Flow 6.542 10^6 m3/day
 Mean Daily Load 11.49 mt/day
 Flow-Wtd Conc 1.756 ppm
 Relative Std Error 2.4%
 Regression R2 92%
 Regression SE 0.10



Site: KR_Walker

KR_Walker

TP

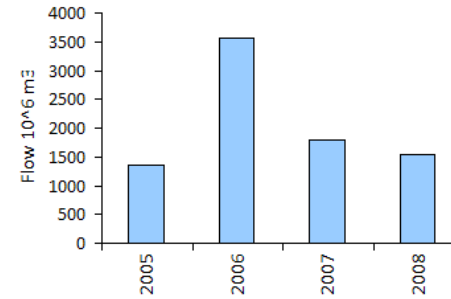
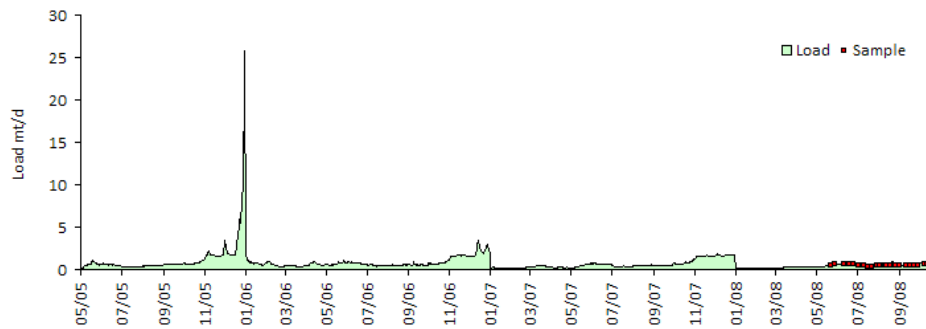
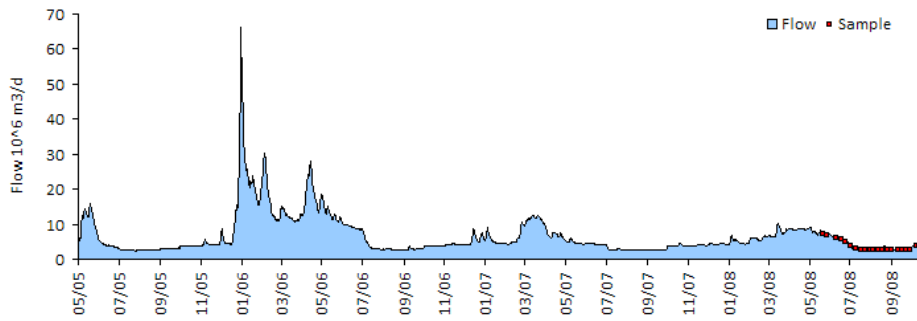
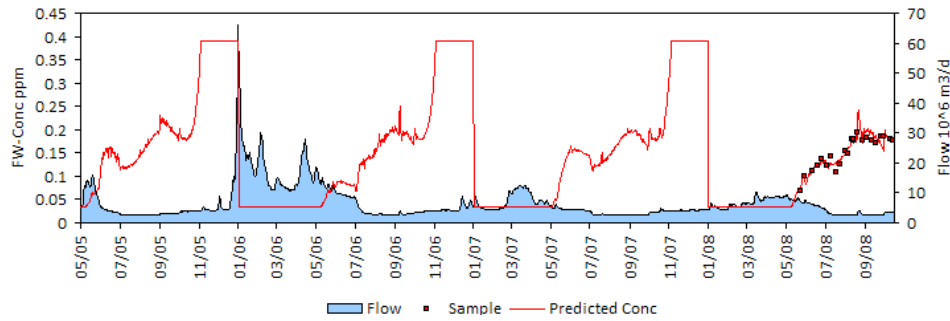
Dates: 05/01/2005 - 10/15/2008

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Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

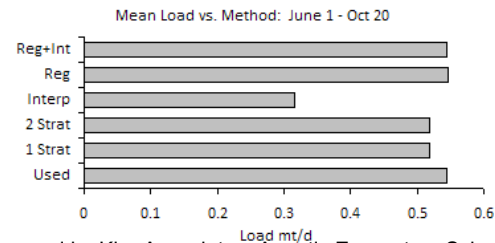
Daily Time Series:

Yearly Time Series:



Site: KR_Walker KR_Walker
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 05/22/08 10/14/08
 Samples 23
 Method: 5 - Regression + Interpolation

Variable: TP
 Mean Daily Flow 6.542 10⁶ m³/day
 Mean Daily Load 0.75 mt/day
 Flow-Wtd Conc 0.115 ppm
 Relative Std Error 1.5%
 Regression R2 94%
 Regression SE 0.09



Site: Salmon_R

Salmon_R

INORGN

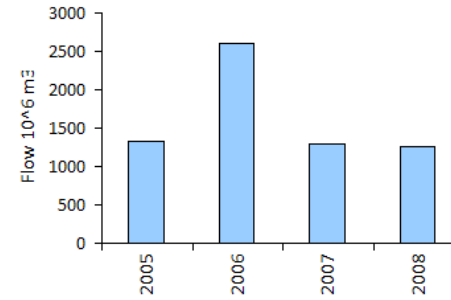
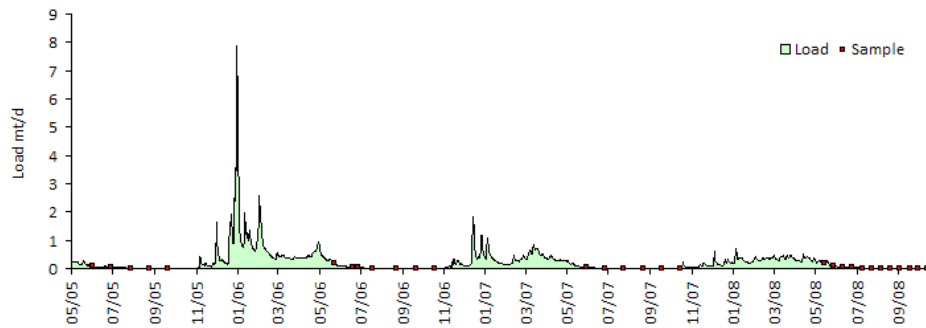
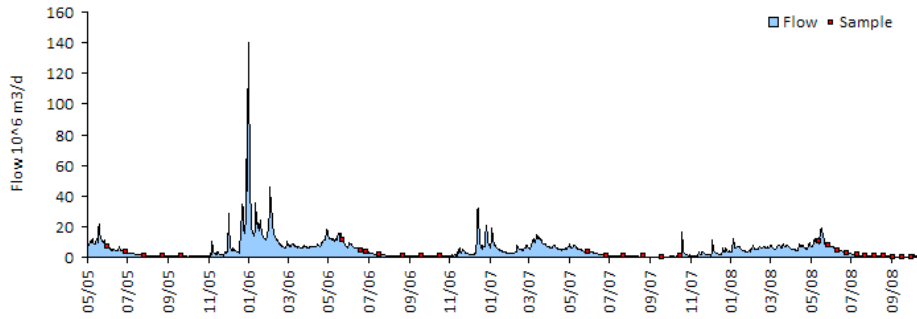
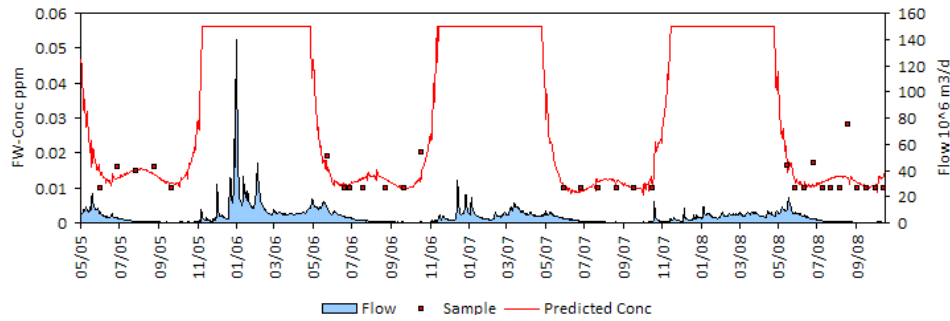
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

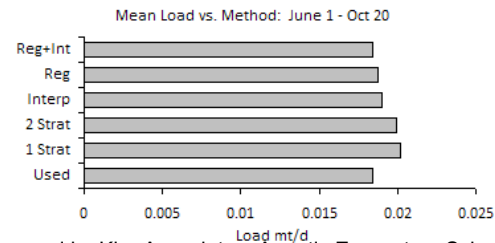
Daily Time Series:

Yearly Time Series:



Site: Salmon_R Salmon_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 30
 Method: 5 - Regression + Interpolation

Variable: INORGN
 Mean Daily Flow 5.131 10^6 m^3/day
 Mean Daily Load 0.22 mt/day
 Flow-Wtd Conc 0.043 ppm
 Relative Std Error 6.7%
 Regression R2 27%
 Regression SE 0.30



Site: Salmon_R

Salmon_R

ORGN

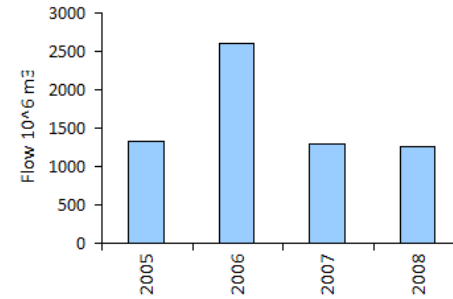
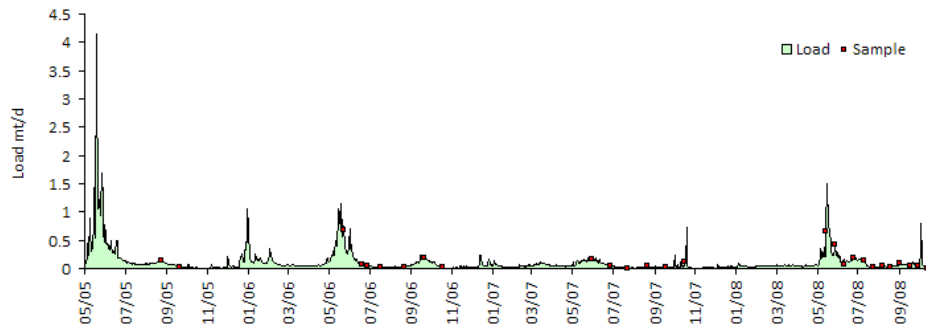
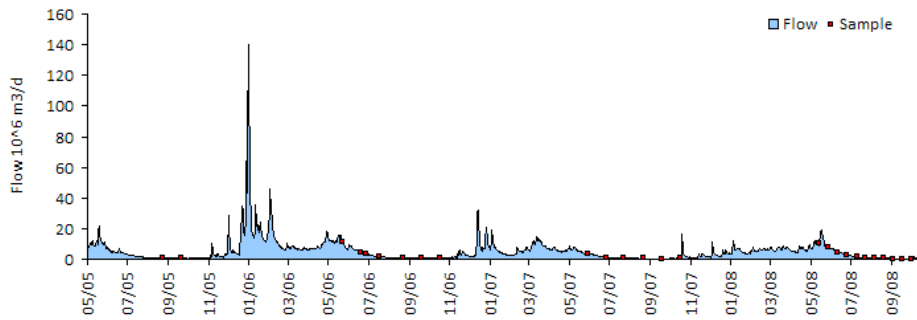
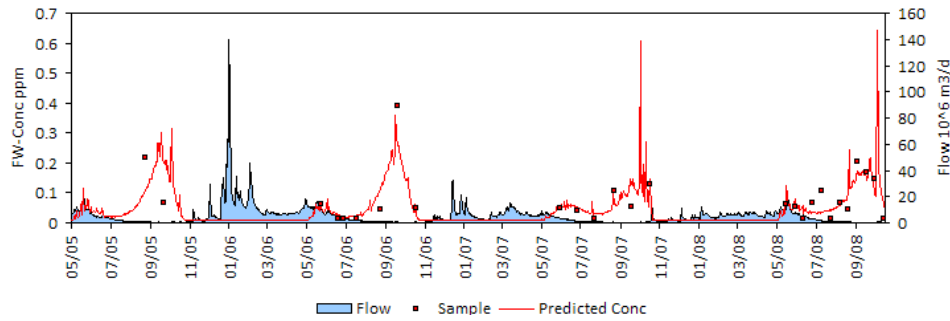
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

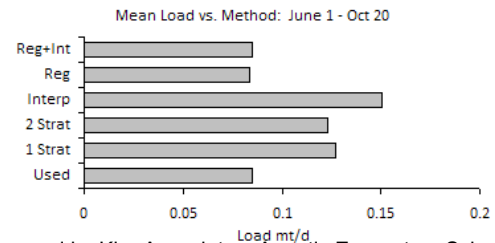
Daily Time Series:

Yearly Time Series:



Site: Salmon_R Salmon_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 08/24/05 10/14/08
 Samples 27
 Method: 5 - Regression + Interpolation

Variable: ORGN
 Mean Daily Flow 5.131 10⁶ m³/day
 Mean Daily Load 0.11 mt/day
 Flow-Wtd Conc 0.022 ppm
 Relative Std Error 11.8%
 Regression R2 56%
 Regression SE 0.80



Site: Salmon_R

Salmon_R

PP

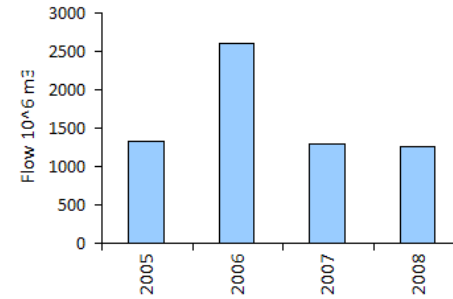
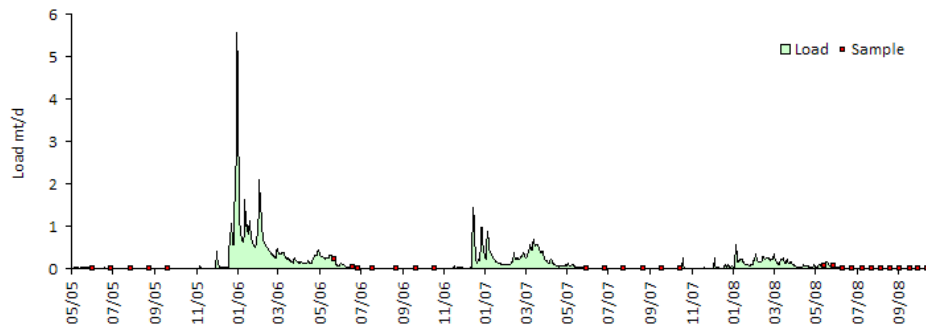
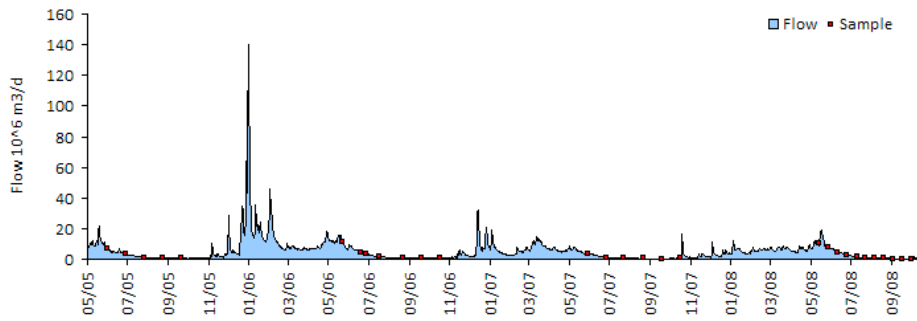
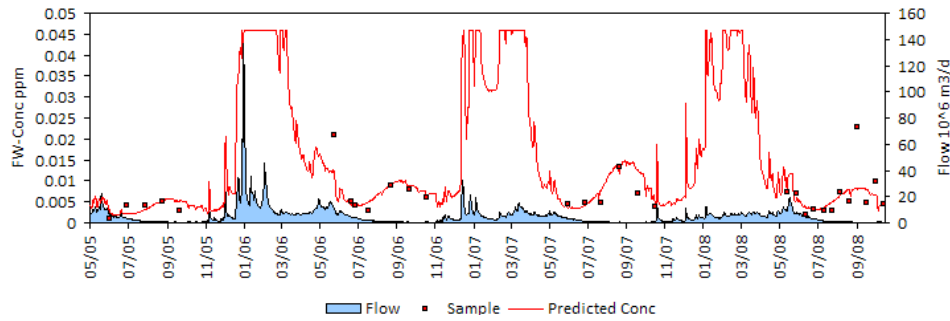
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

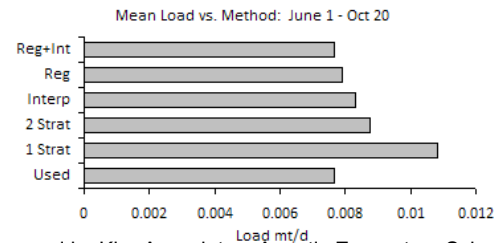
Daily Time Series:

Yearly Time Series:



Site: Salmon_R Salmon_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 30
 Method: 5 - Regression + Interpolation

Variable: PP
 Mean Daily Flow 5.131 10⁶ m³/day
 Mean Daily Load 0.13 mt/day
 Flow-Wtd Conc 0.025 ppm
 Relative Std Error 25.9%
 Regression R2 52%
 Regression SE 0.55



Site: Salmon_R

Salmon_R

SRP

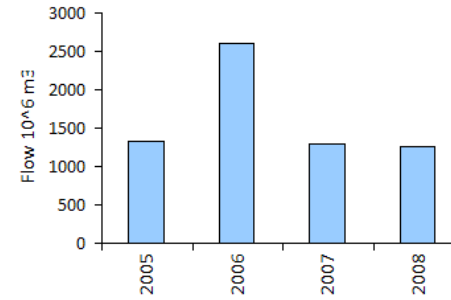
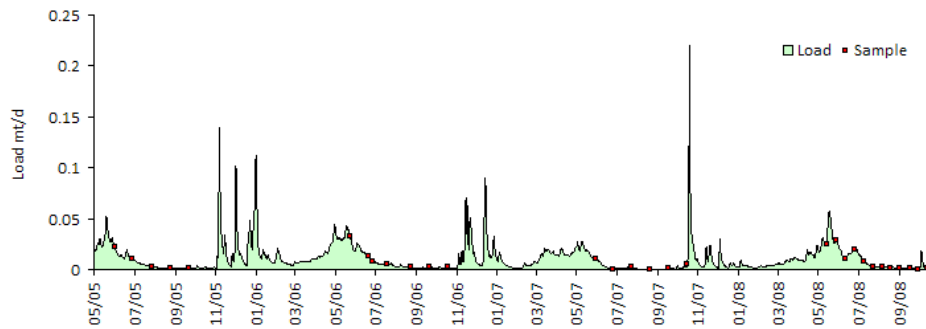
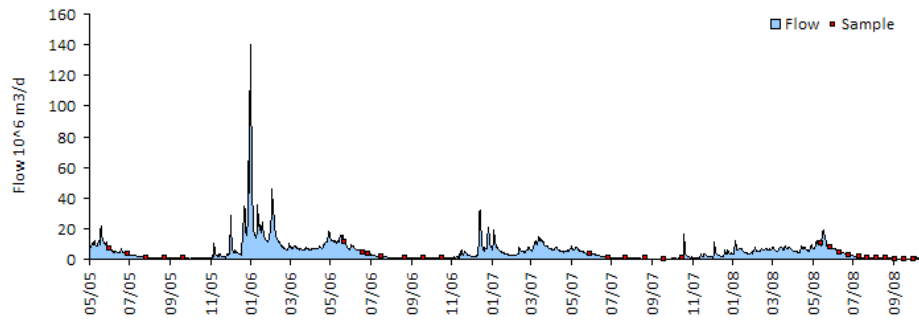
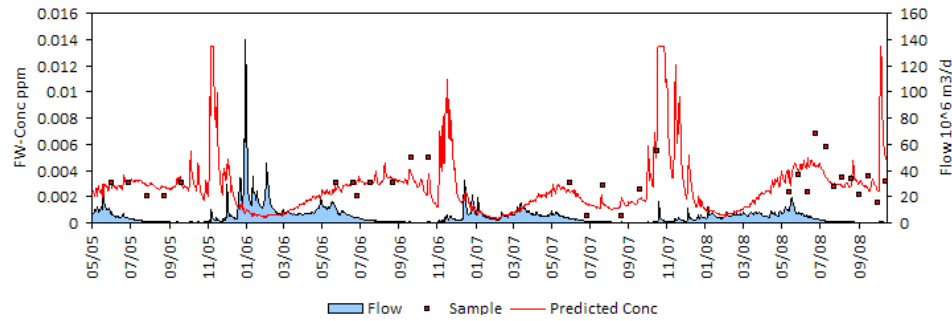
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

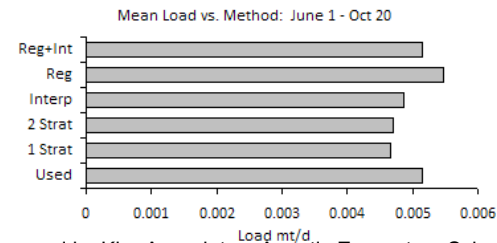
Daily Time Series:

Yearly Time Series:



Site: Salmon_R Salmon_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 30
 Method: 5 - Regression + Interpolation

Variable: SRP
 Mean Daily Flow 5.131 10⁶ m³/day
 Mean Daily Load 0.01 mt/day
 Flow-Wtd Conc 0.002 ppm
 Relative Std Error 9.3%
 Regression R2 36%
 Regression SE 0.57



Site: Salmon_R

Salmon_R

TN

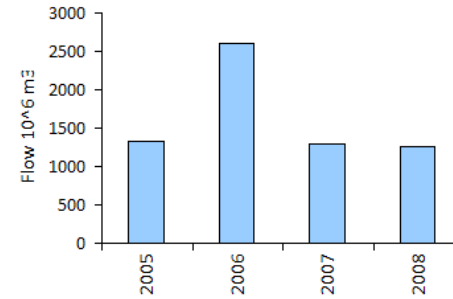
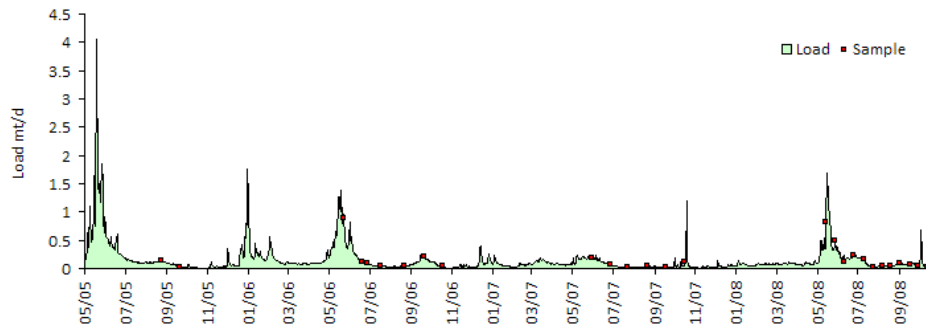
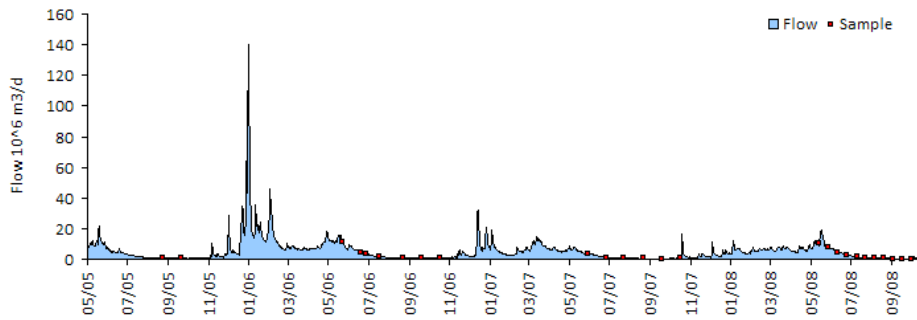
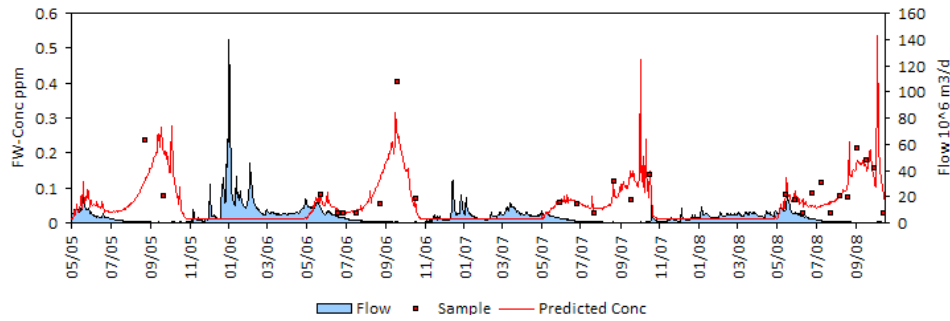
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

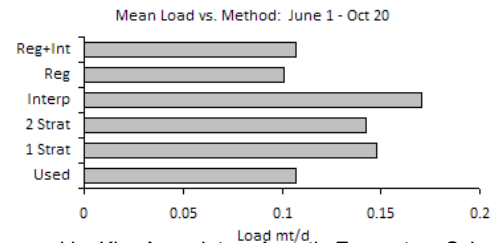
Daily Time Series:

Yearly Time Series:



Site: Salmon_R Salmon_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 08/24/05 10/14/08
 Samples 27
 Method: 5 - Regression + Interpolation

Variable: TN
 Mean Daily Flow 5.131 10⁶ m³/day
 Mean Daily Load 0.15 mt/day
 Flow-Wtd Conc 0.030 ppm
 Relative Std Error 10.1%
 Regression R2 55%
 Regression SE 0.67



Site: Salmon_R

Salmon_R

TP

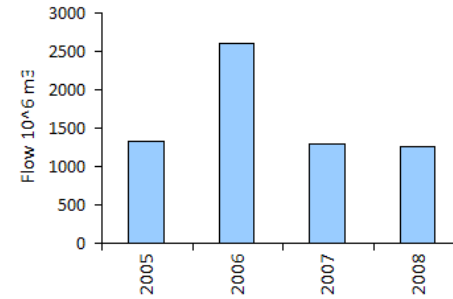
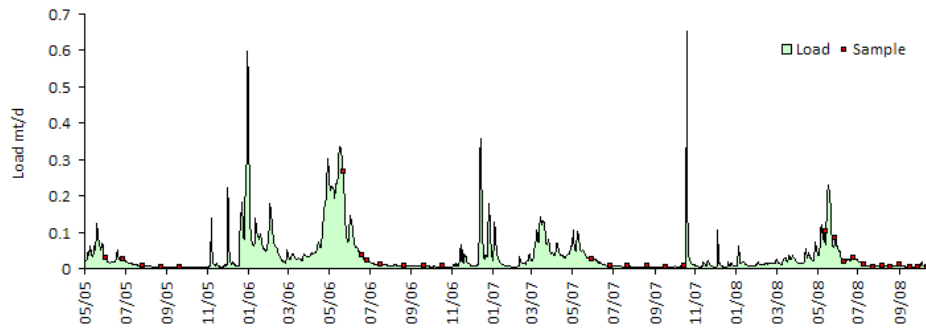
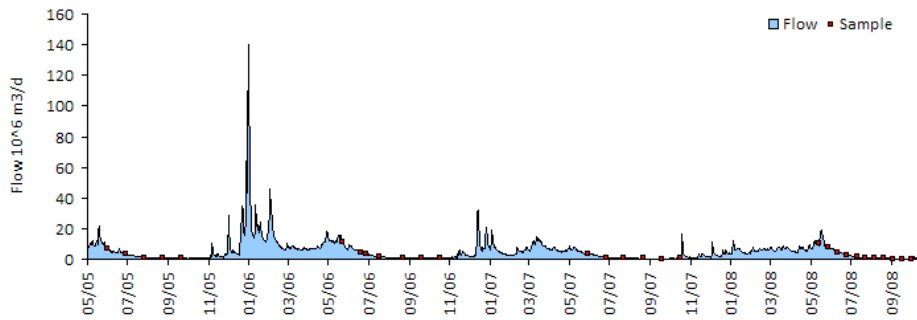
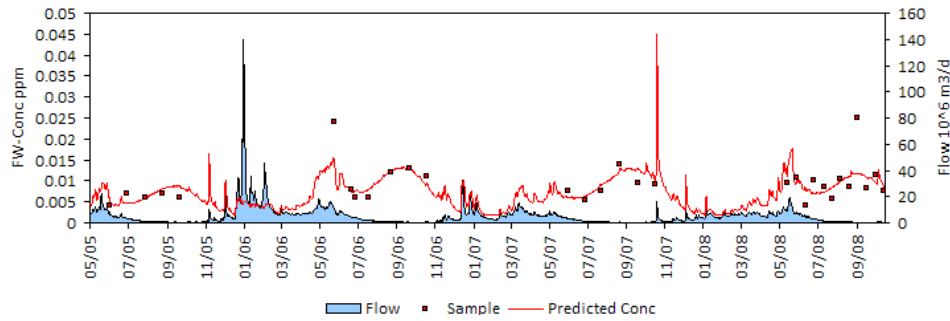
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

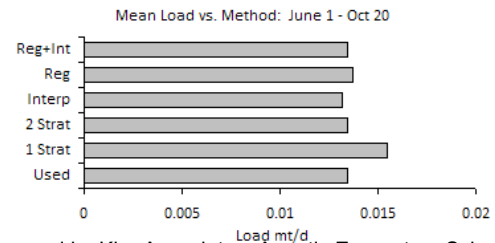
Daily Time Series:

Yearly Time Series:



Site: Salmon_R Salmon_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 30
 Method: 5 - Regression + Interpolation

Variable: TP
 Mean Daily Flow 5.131 10⁶ m³/day
 Mean Daily Load 0.04 mt/day
 Flow-Wtd Conc 0.007 ppm
 Relative Std Error 18.1%
 Regression R2 48%
 Regression SE 0.38



Site: Scott_R

Scott_R

INORGN

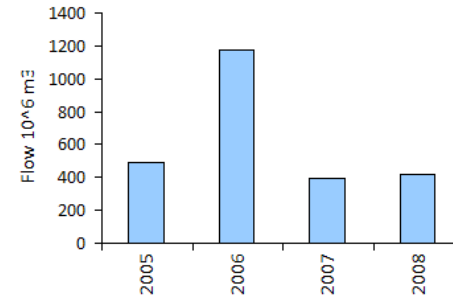
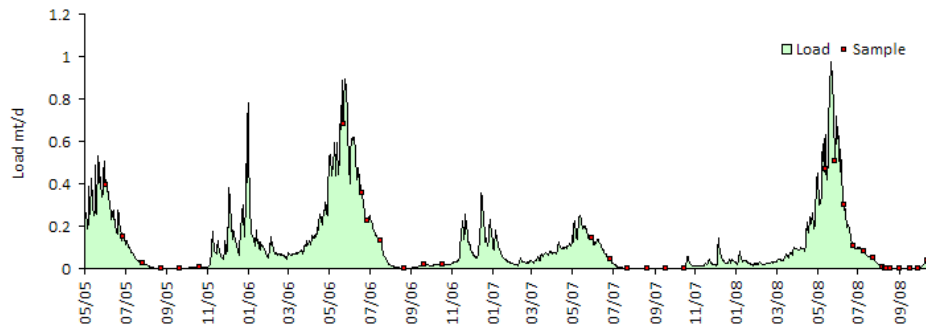
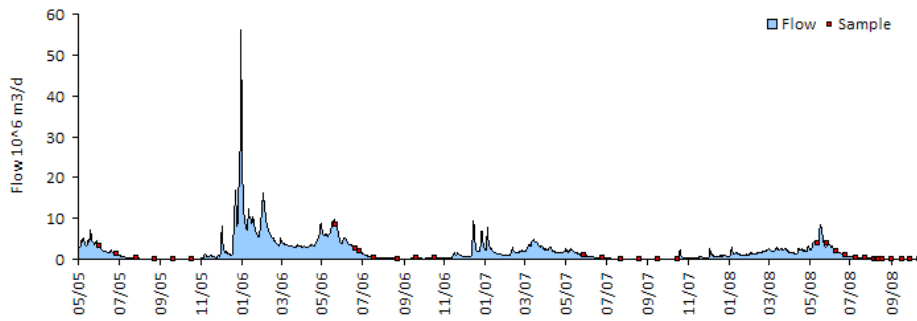
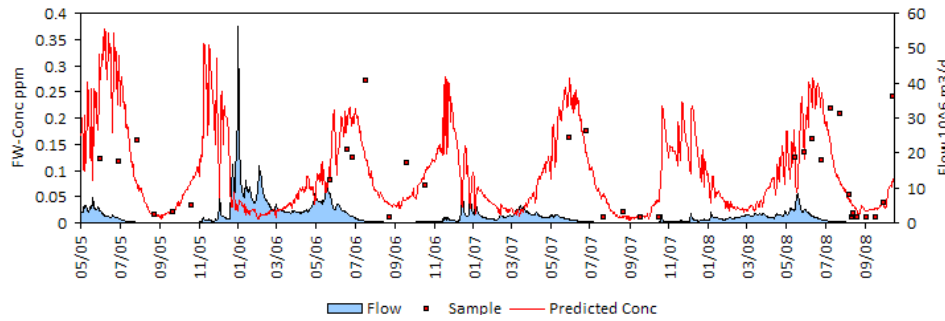
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

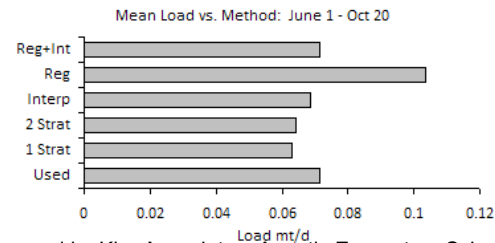
Daily Time Series:

Yearly Time Series:



Site: Scott_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 34
 Method: 5 - Regression + Interpolation

Variable: INORGN
 Mean Daily Flow 1.964 10⁶ m³/day
 Mean Daily Load 0.11 mt/day
 Flow-Wtd Conc 0.058 ppm
 Relative Std Error 15.2%
 Regression R2 64%
 Regression SE 0.87



Site: Scott_R

Scott_R

ORGN

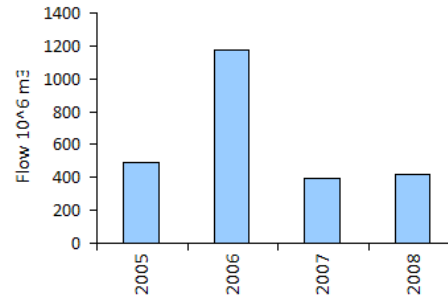
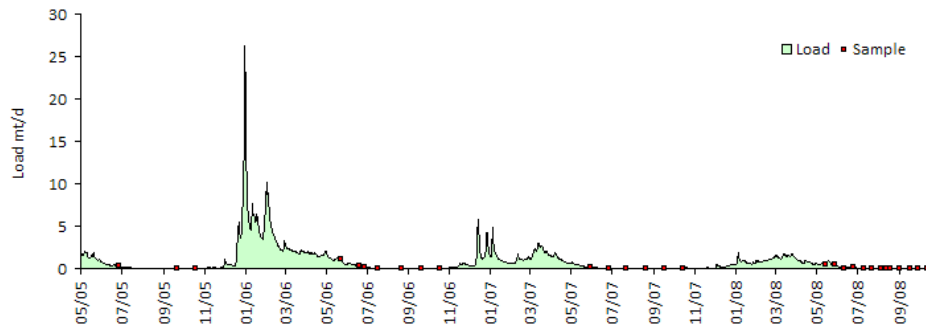
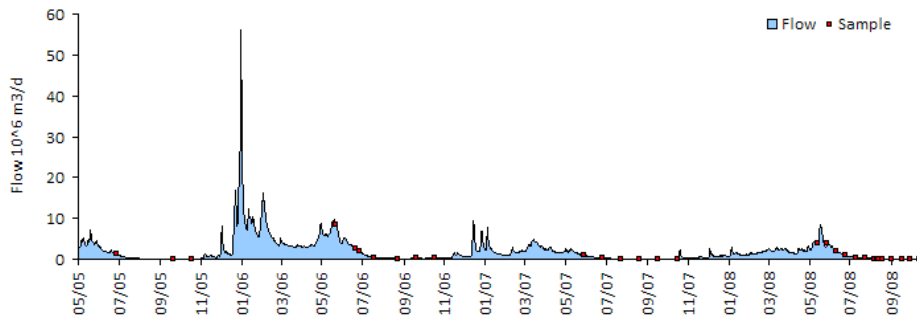
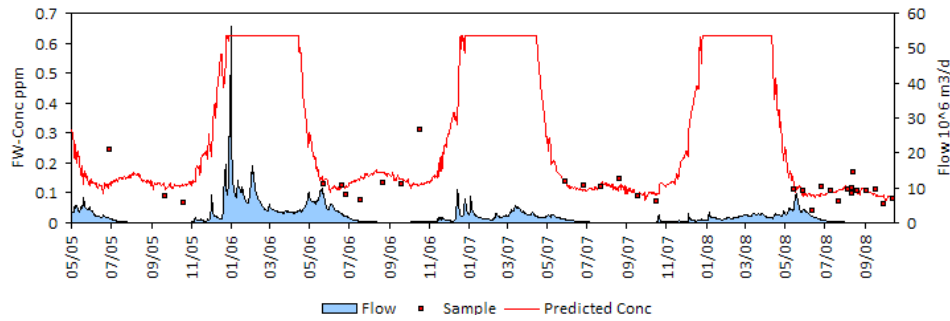
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

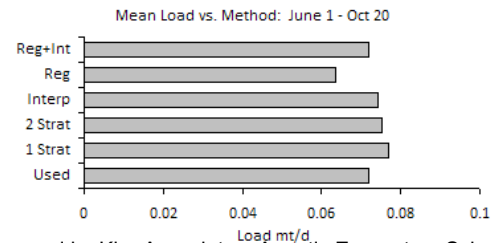
Daily Time Series:

Yearly Time Series:



Site: Scott_R Scott_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/28/05 10/14/08
 Samples 31
 Method: 5 - Regression + Interpolation

Variable: ORGN
 Mean Daily Flow 1.964 10⁶ m³/day
 Mean Daily Load 0.83 mt/day
 Flow-Wtd Conc 0.423 ppm
 Relative Std Error 7.9%
 Regression R2 20%
 Regression SE 0.43



Site: Scott_R

Scott_R

PP

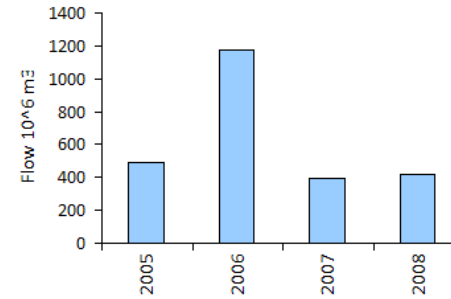
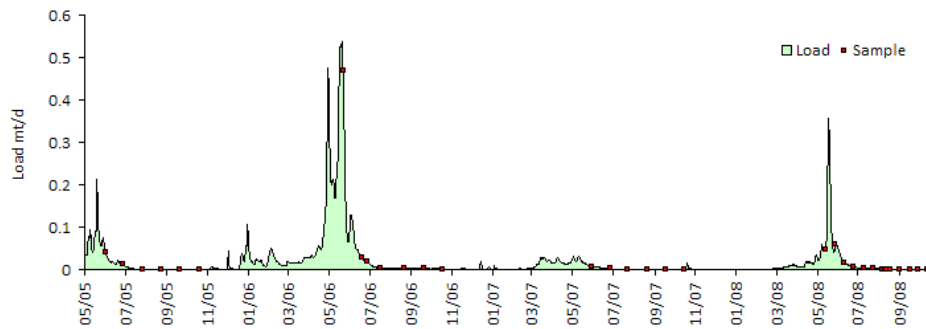
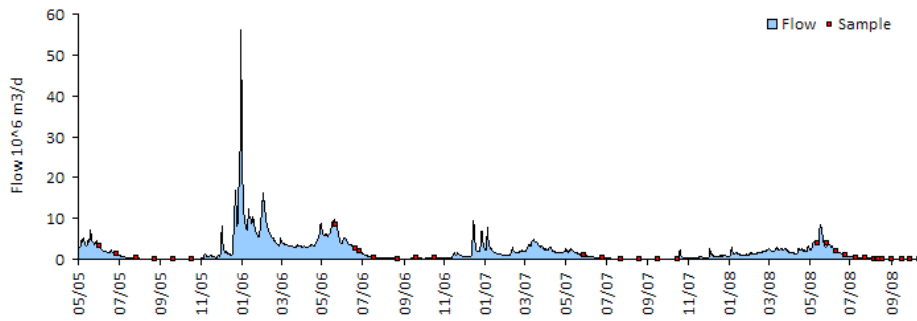
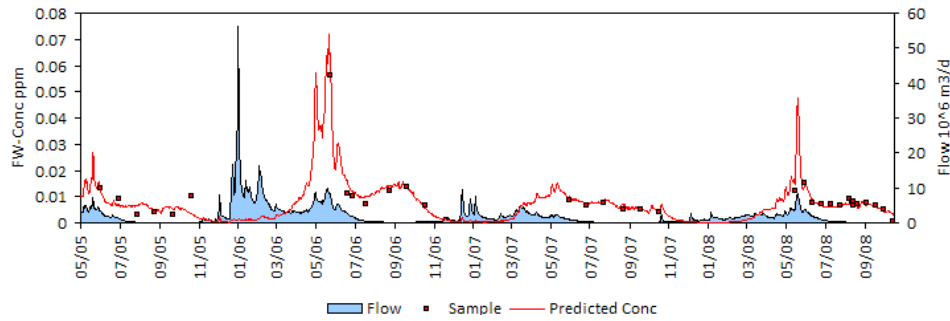
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

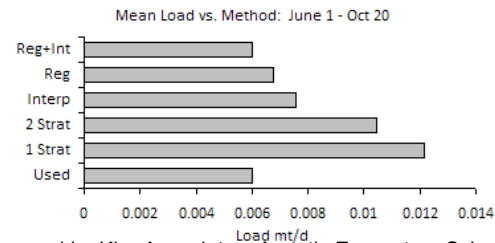
Daily Time Series:

Yearly Time Series:



Site: Scott_R Scott_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 34
 Method: 5 - Regression + Interpolation

Variable: PP
 Mean Daily Flow 1.964 10⁶ m³/day
 Mean Daily Load 0.02 mt/day
 Flow-Wtd Conc 0.010 ppm
 Relative Std Error 10.6%
 Regression R2 62%
 Regression SE 0.52



Site: Scott_R

Scott_R

SRP

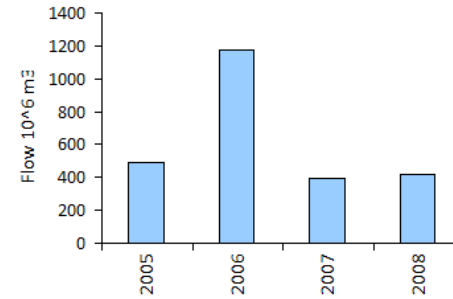
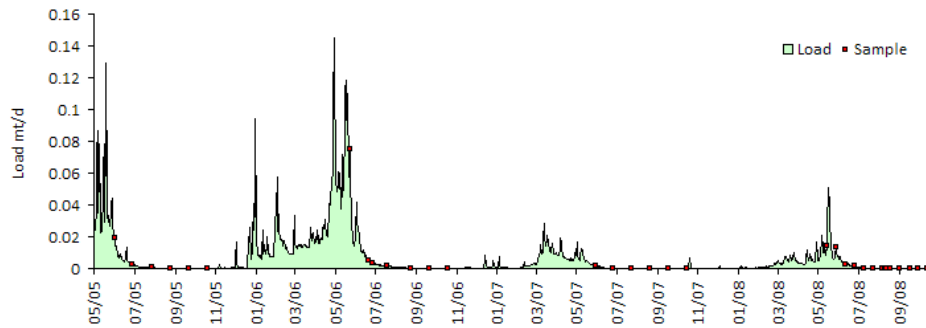
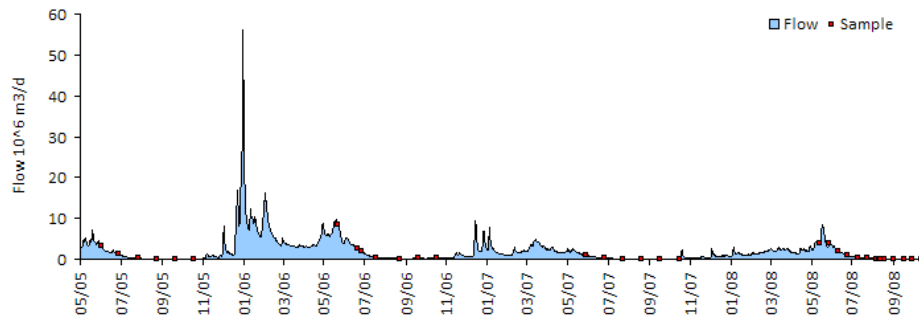
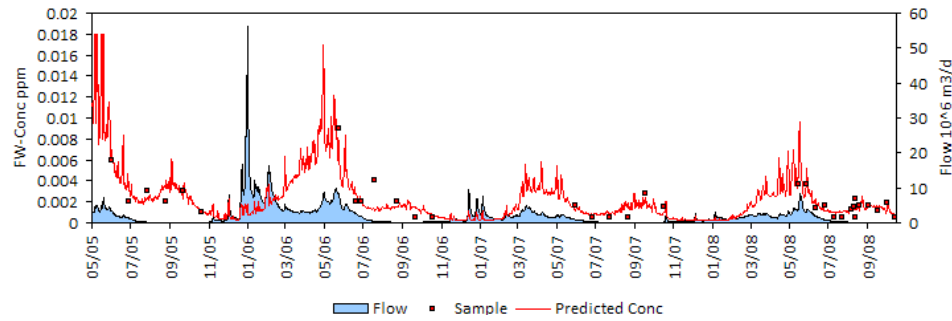
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

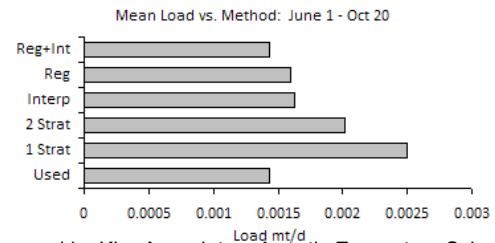
Daily Time Series:

Yearly Time Series:



Site: Scott_R Scott_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 34
 Method: 5 - Regression + Interpolation

Variable: SRP
 Mean Daily Flow 1.964 10^6 m³/day
 Mean Daily Load 0.01 mt/day
 Flow-Wtd Conc 0.003 ppm
 Relative Std Error 10.1%
 Regression R2 61%
 Regression SE 0.60



Site: Scott_R

Scott_R

TN

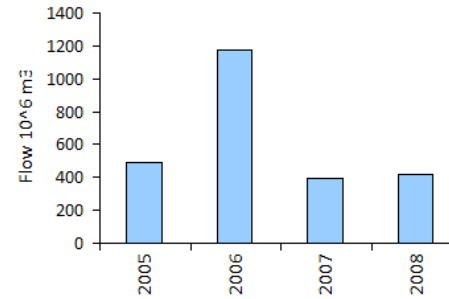
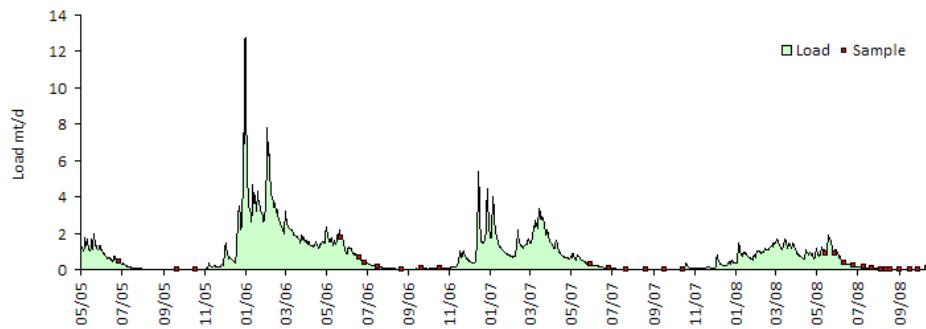
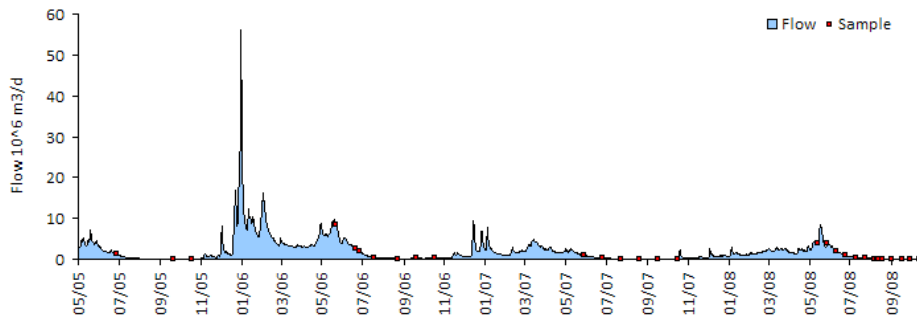
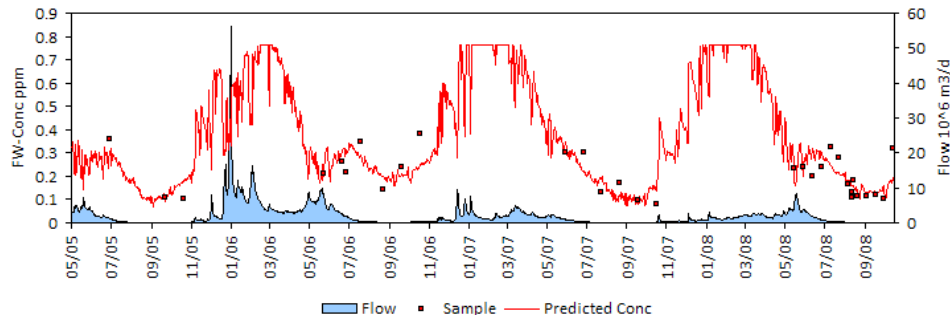
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

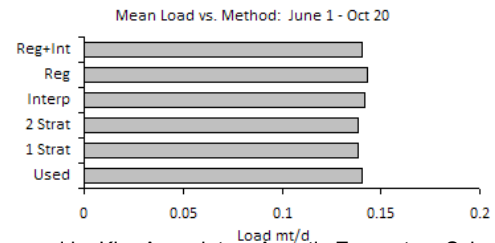
Daily Time Series:

Yearly Time Series:



Site: Scott_R Scott_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/28/05 10/14/08
 Samples 31
 Method: 5 - Regression + Interpolation

Variable: TN
 Mean Daily Flow 1.964 10⁶ m³/day
 Mean Daily Load 0.81 mt/day
 Flow-Wtd Conc 0.413 ppm
 Relative Std Error 6.5%
 Regression R2 58%
 Regression SE 0.37



Site: Scott_R

Scott_R

TP

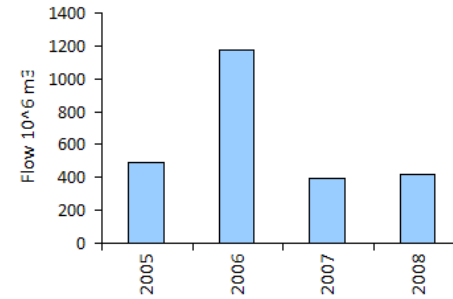
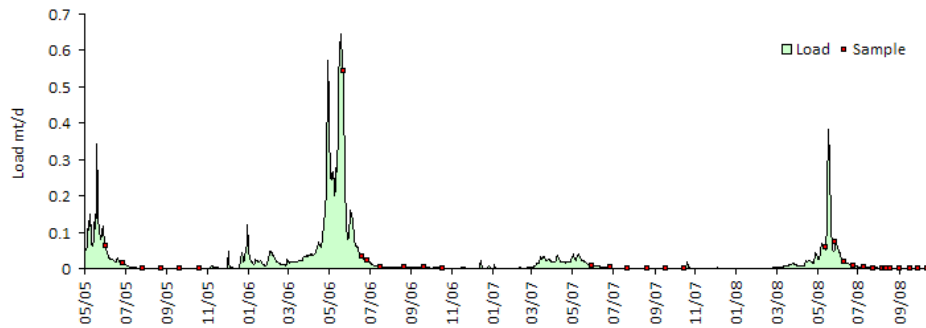
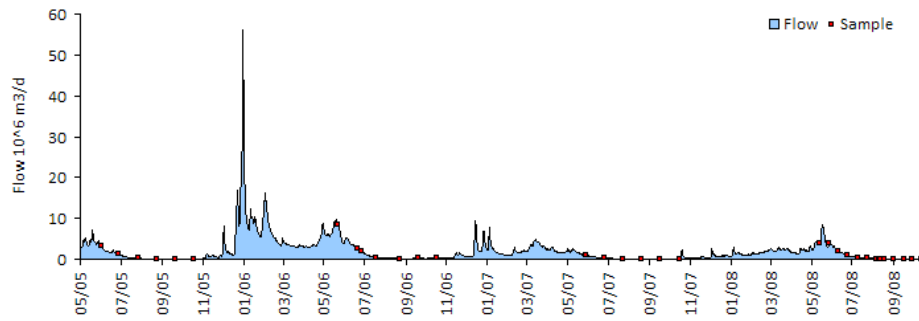
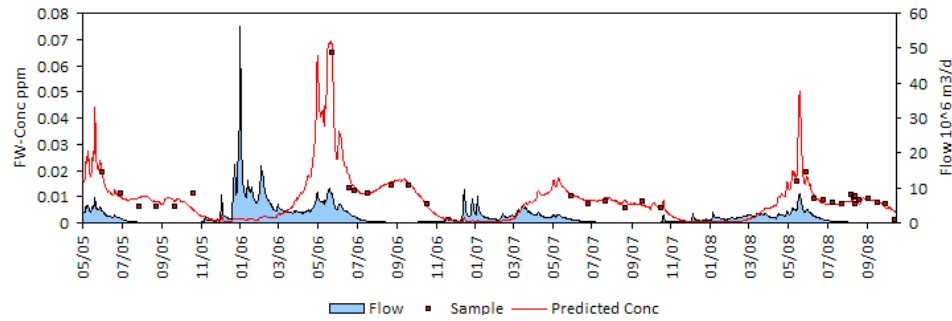
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

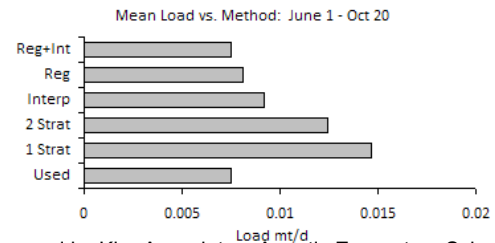
Daily Time Series:

Yearly Time Series:



Site: Scott_R Scott_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 34
 Method: 5 - Regression + Interpolation

Variable: TP
 Mean Daily Flow 1.964 10^6 m3/day
 Mean Daily Load 0.02 mt/day
 Flow-Wtd Conc 0.012 ppm
 Relative Std Error 4.1%
 Regression R2 70%
 Regression SE 0.40



Site: Shasta_R

Shasta_R

INORGN

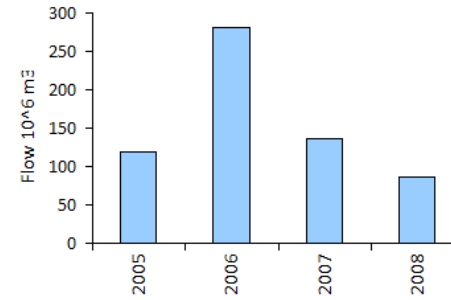
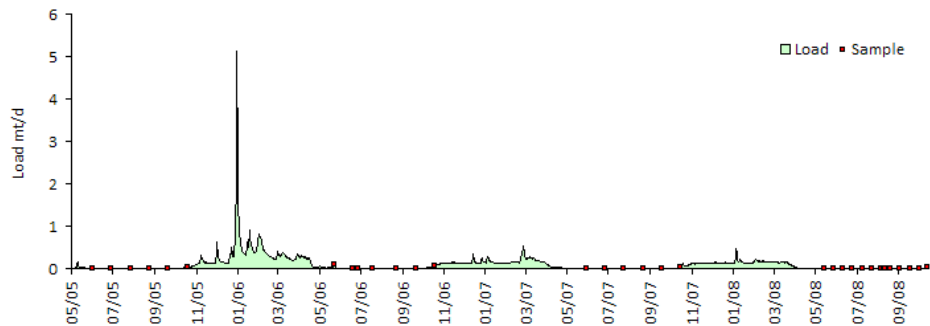
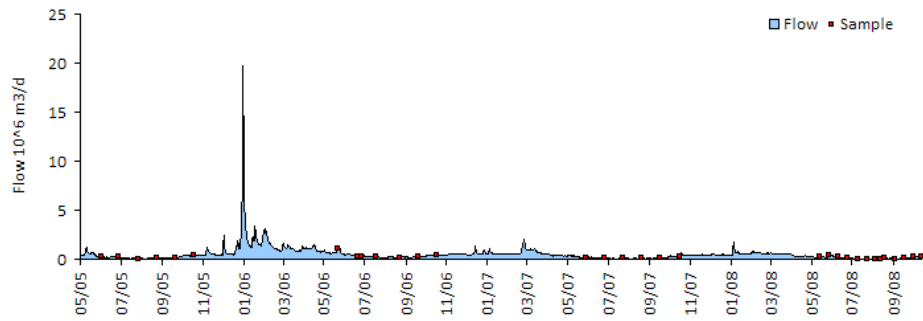
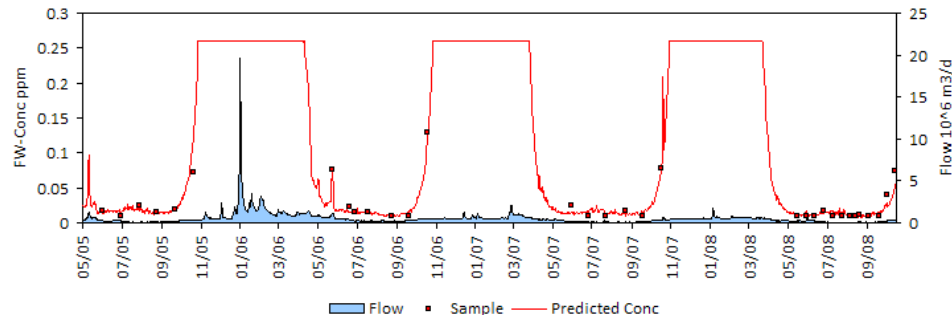
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

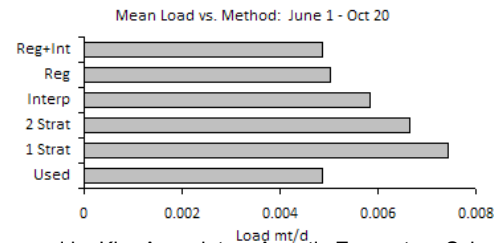
Daily Time Series:

Yearly Time Series:



Site: Shasta_R Shasta_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 34
 Method: 5 - Regression + Interpolation

Variable: INORGN
 Mean Daily Flow 0.493 10⁶ m³/day
 Mean Daily Load 0.09 mt/day
 Flow-Wtd Conc 0.190 ppm
 Relative Std Error 8.2%
 Regression R2 86%
 Regression SE 0.34



Site: Shasta_R

Shasta_R

ORGN

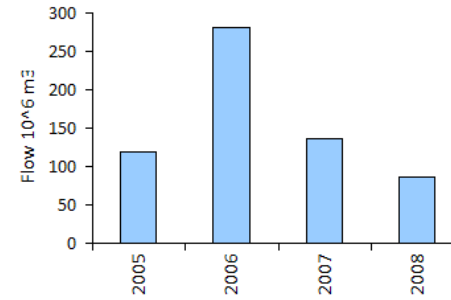
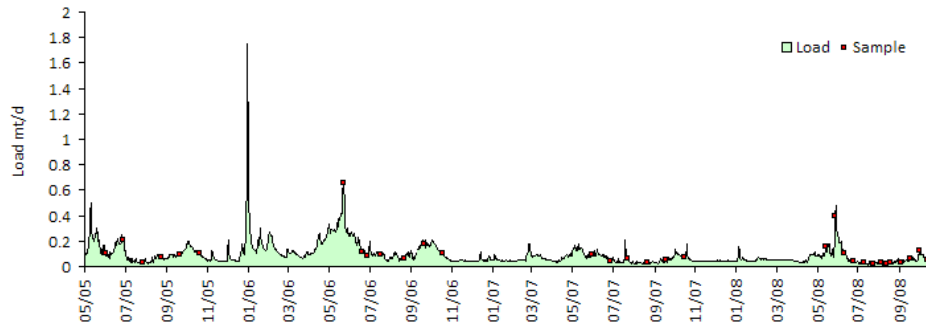
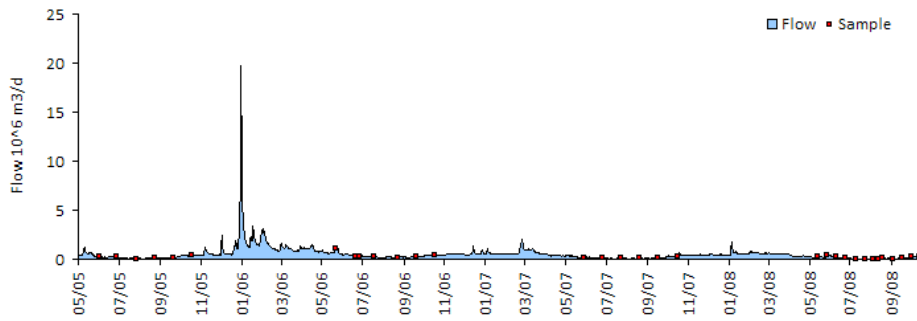
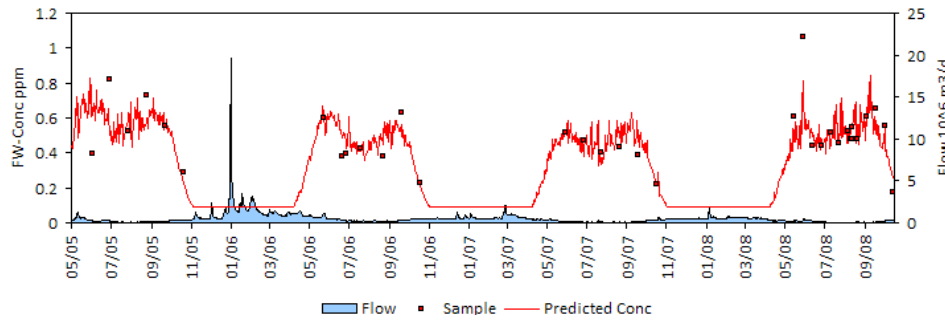
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

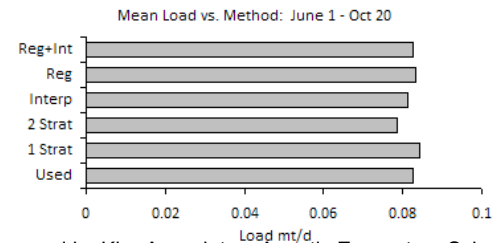
Daily Time Series:

Yearly Time Series:



Site: Shasta_R Shasta_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 34
 Method: 5 - Regression + Interpolation

Variable: ORGN
 Mean Daily Flow 0.493 10⁶ m³/day
 Mean Daily Load 0.09 mt/day
 Flow-Wtd Conc 0.190 ppm
 Relative Std Error 5.5%
 Regression R2 69%
 Regression SE 0.24



Site: Shasta_R

Shasta_R

PP

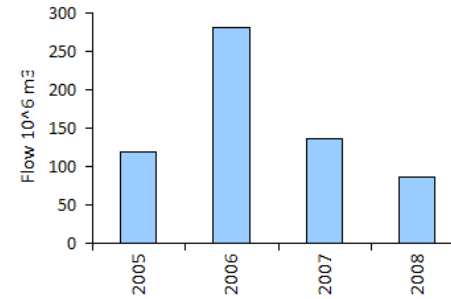
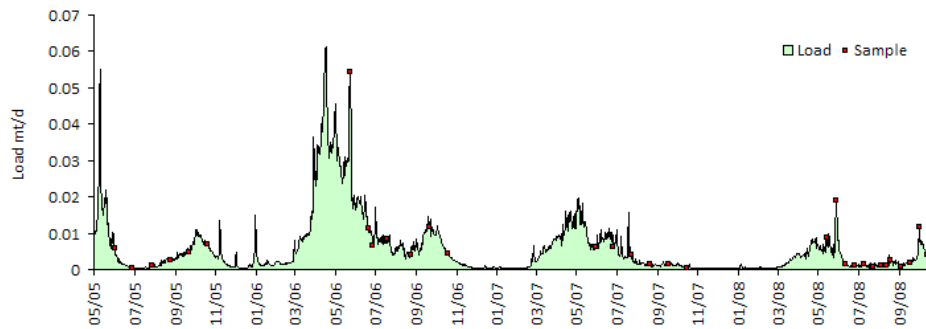
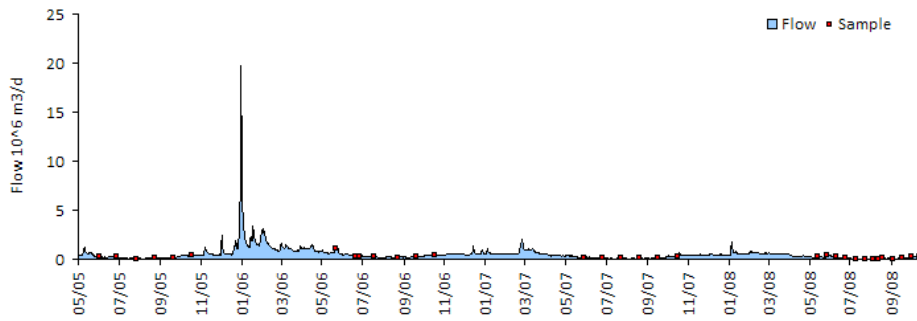
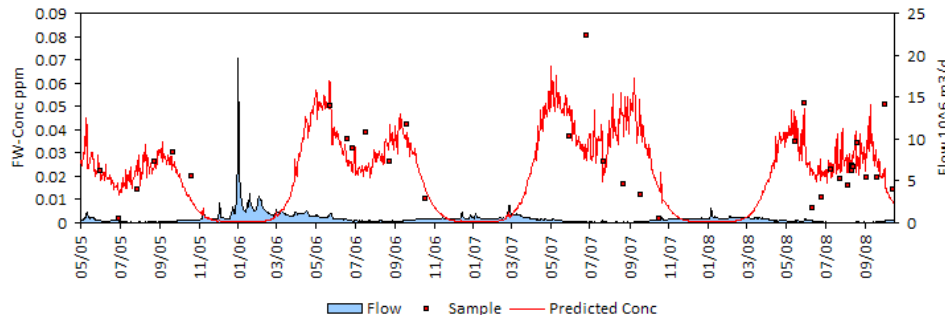
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

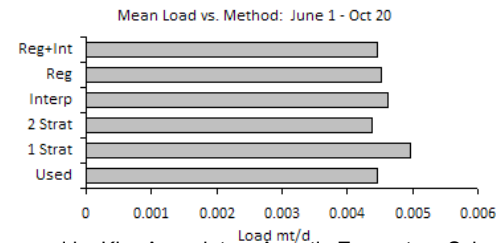
Daily Time Series:

Yearly Time Series:



Site: Shasta_R Shasta_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 34
 Method: 5 - Regression + Interpolation

Variable: PP
 Mean Daily Flow 0.493 10⁶ m³/day
 Mean Daily Load 0.01 mt/day
 Flow-Wtd Conc 0.012 ppm
 Relative Std Error 9.8%
 Regression R2 25%
 Regression SE 0.87



Site: Shasta_R

Shasta_R

SRP

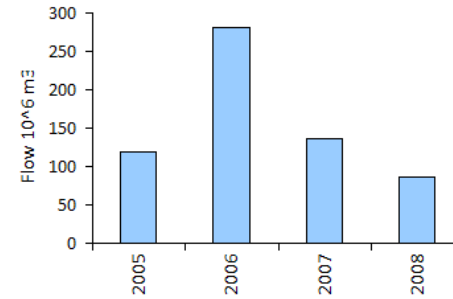
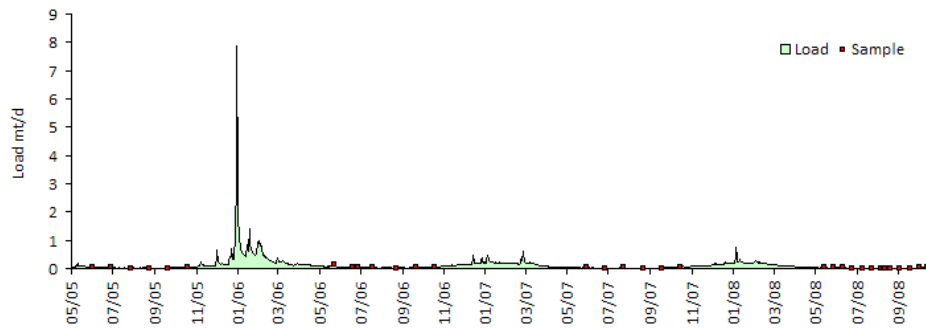
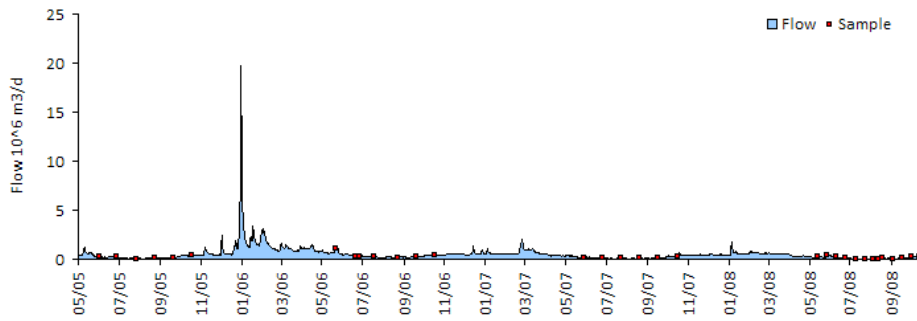
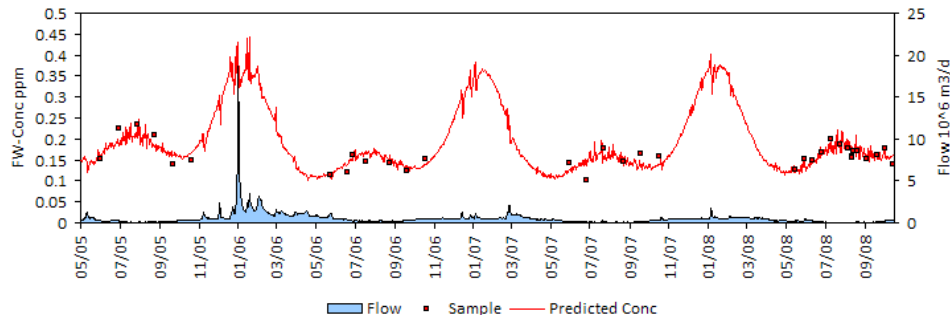
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

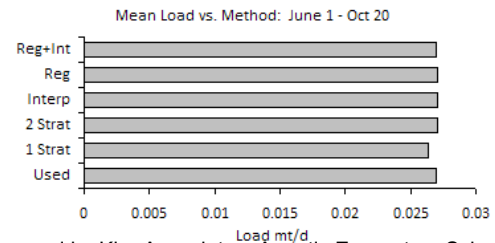
Daily Time Series:

Yearly Time Series:



Site: Shasta_R Shasta_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 34
 Method: 5 - Regression + Interpolation

Variable: SRP
 Mean Daily Flow 0.493 10⁶ m³/day
 Mean Daily Load 0.12 mt/day
 Flow-Wtd Conc 0.238 ppm
 Relative Std Error 2.3%
 Regression R2 61%
 Regression SE 0.14



Site: Shasta_R

Shasta_R

TN

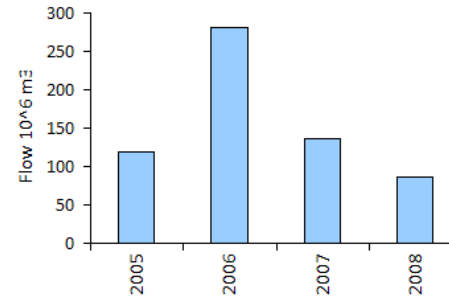
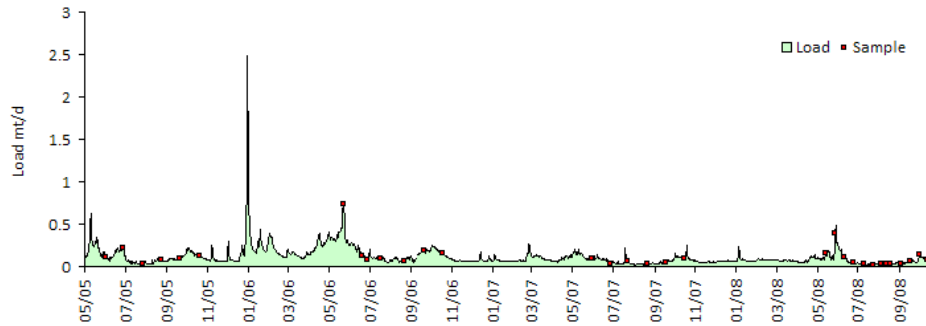
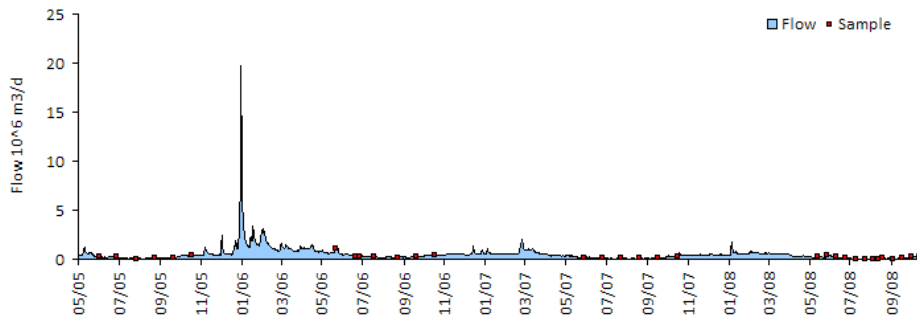
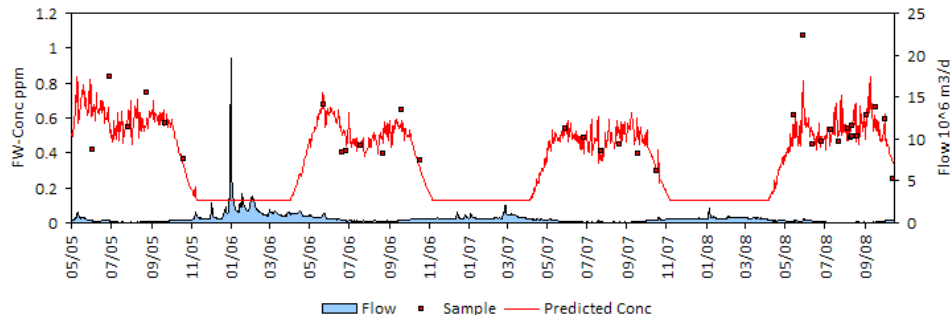
Dates: 05/01/2005 - 10/15/2008

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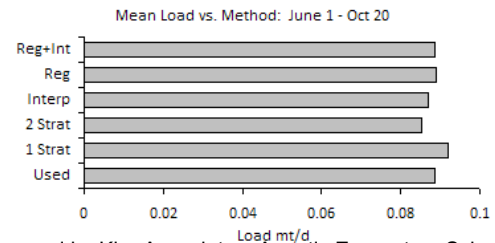
Daily Time Series:

Yearly Time Series:



Site: Shasta_R Shasta_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 34
 Method: 5 - Regression + Interpolation

Variable: TN
 Mean Daily Flow 0.493 10⁶ m³/day
 Mean Daily Load 0.11 mt/day
 Flow-Wtd Conc 0.232 ppm
 Relative Std Error 5.1%
 Regression R2 59%
 Regression SE 0.22



Site: Shasta_R

Shasta_R

TP

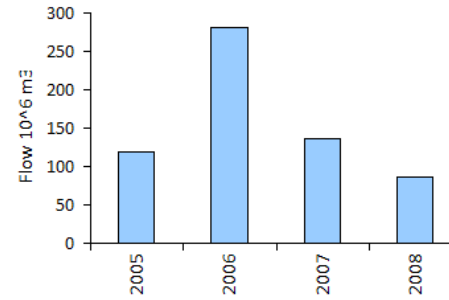
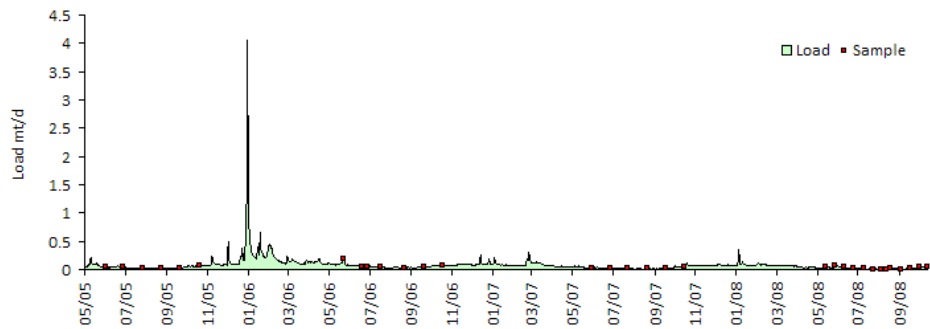
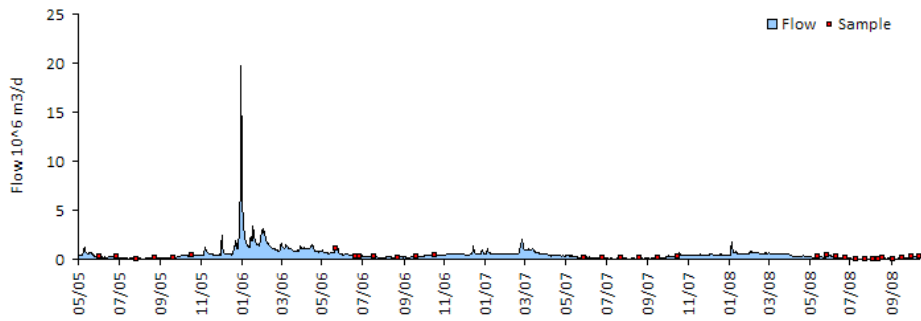
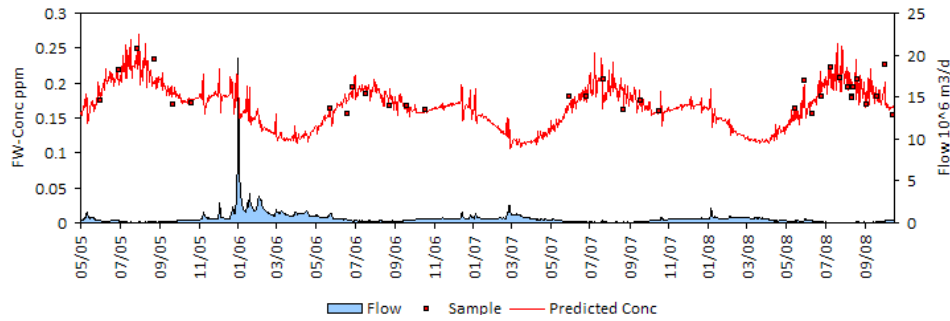
Dates: 05/01/2005 - 10/15/2008

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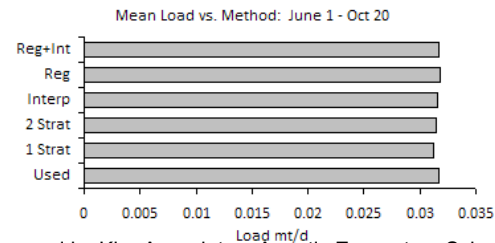
Daily Time Series:

Yearly Time Series:



Site: Shasta_R Shasta_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/14/08
 Samples 34
 Method: 5 - Regression + Interpolation

Variable: TP
 Mean Daily Flow 0.493 10⁶ m³/day
 Mean Daily Load 0.08 mt/day
 Flow-Wtd Conc 0.155 ppm
 Relative Std Error 1.4%
 Regression R2 62%
 Regression SE 0.09



Site: Trinity_R

Trinity_R

INORGN

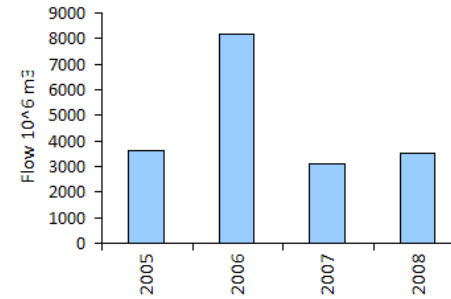
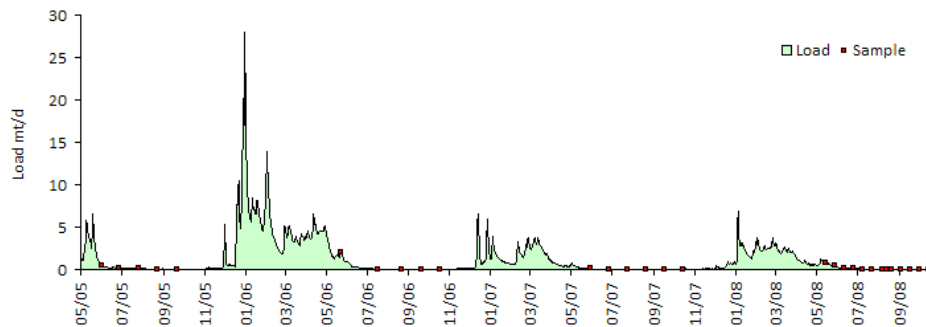
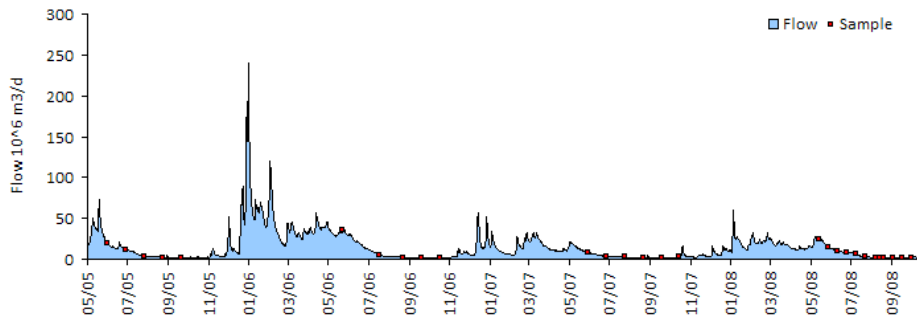
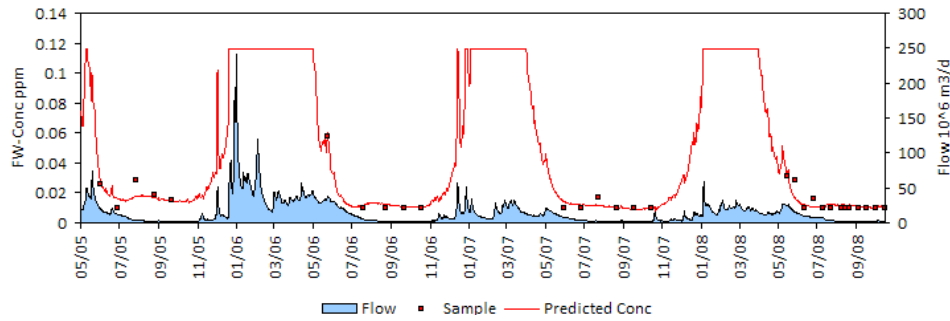
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

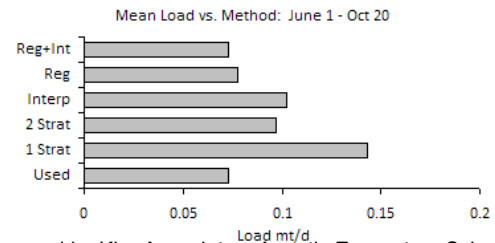
Daily Time Series:

Yearly Time Series:



Site: Trinity_R Trinity_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/15/08
 Samples 29
 Method: 5 - Regression + Interpolation

Variable: INORGN
 Mean Daily Flow 14.593 10⁶ m³/day
 Mean Daily Load 1.19 mt/day
 Flow-Wtd Conc 0.082 ppm
 Relative Std Error 5.9%
 Regression R2 76%
 Regression SE 0.29



Site: Trinity_R

Trinity_R

ORGN

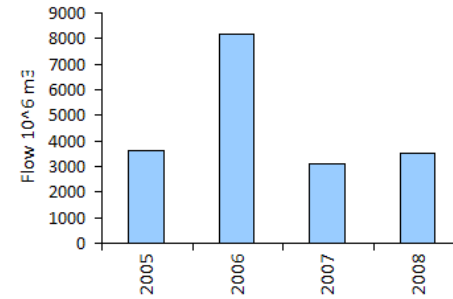
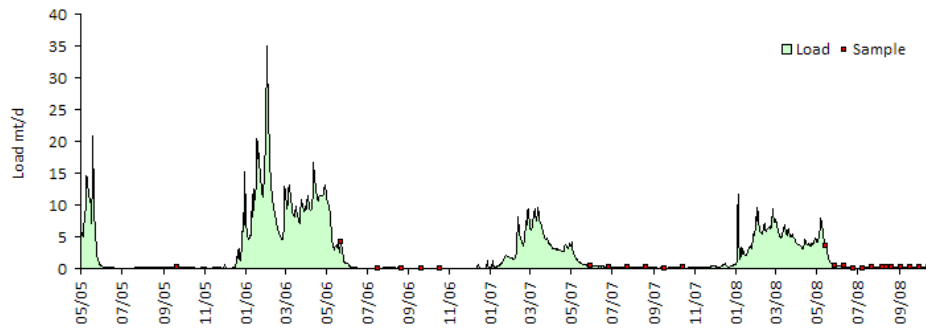
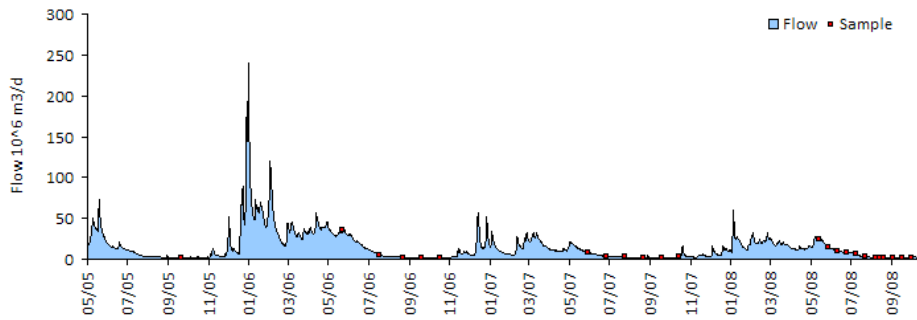
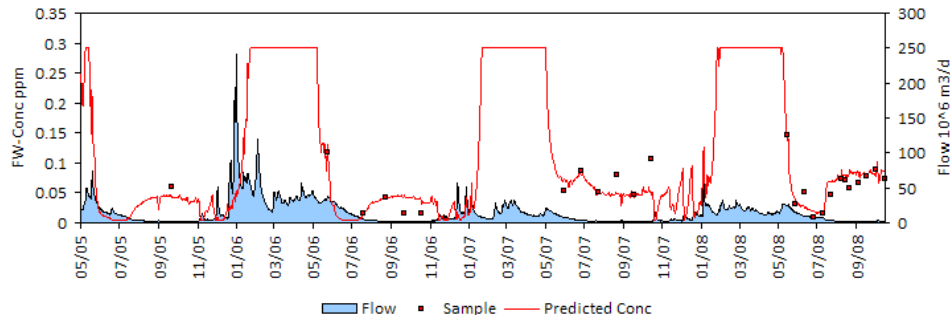
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

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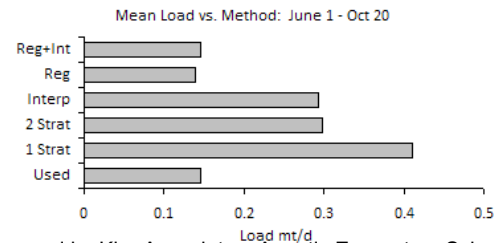
Daily Time Series:

Yearly Time Series:



Site: Trinity_R Trinity_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 09/21/05 10/15/08
 Samples 25
 Method: 5 - Regression + Interpolation

Variable: ORGN
 Mean Daily Flow 14.593 10⁶ m³/day
 Mean Daily Load 2.44 mt/day
 Flow-Wtd Conc 0.167 ppm
 Relative Std Error 6.6%
 Regression R2 68%
 Regression SE 0.55



Site: Trinity_R

Trinity_R

PP

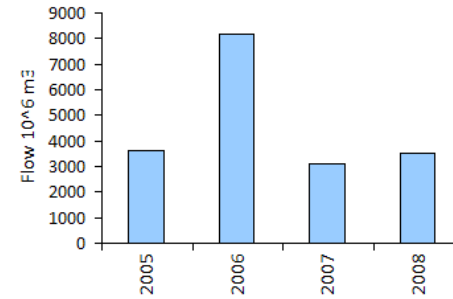
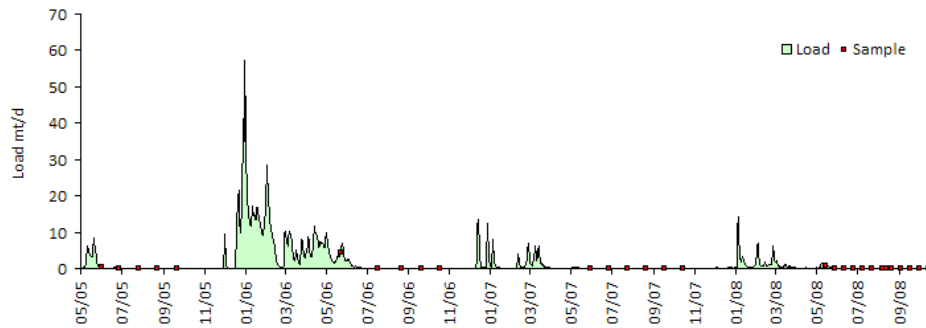
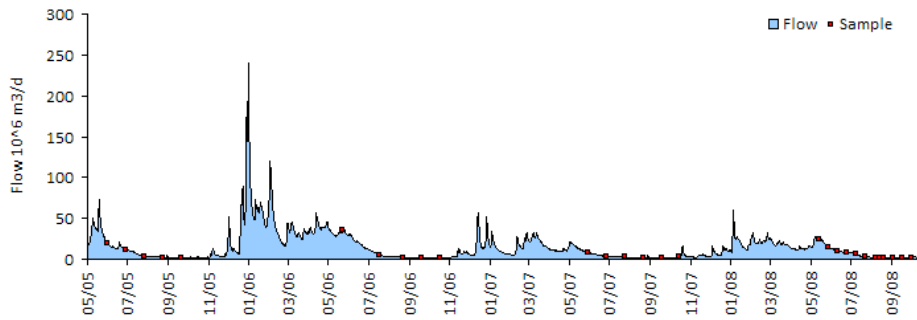
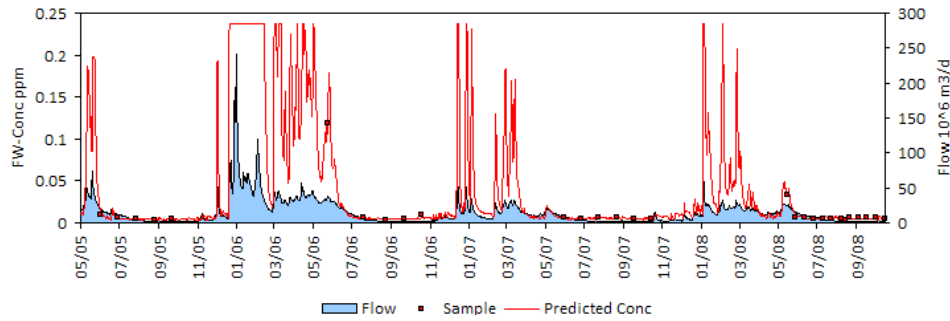
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

Daily concentrations predicted for winter months are inaccurate but do not impact the formulation of June-Oct nutrient balances.

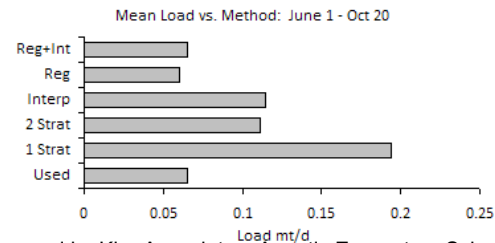
Daily Time Series:

Yearly Time Series:



Site: Trinity_R Trinity_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/15/08
 Samples 29
 Method: 5 - Regression + Interpolation

Variable: PP
 Mean Daily Flow 14.593 10⁶ m³/day
 Mean Daily Load 1.61 mt/day
 Flow-Wtd Conc 0.111 ppm
 Relative Std Error 6.0%
 Regression R2 90%
 Regression SE 0.28



Site: Trinity_R

Trinity_R

SRP

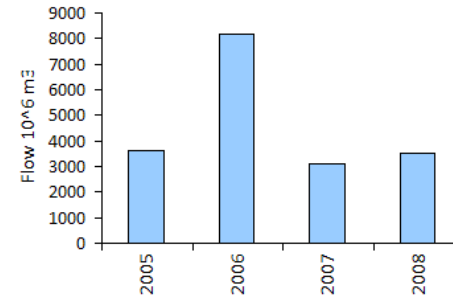
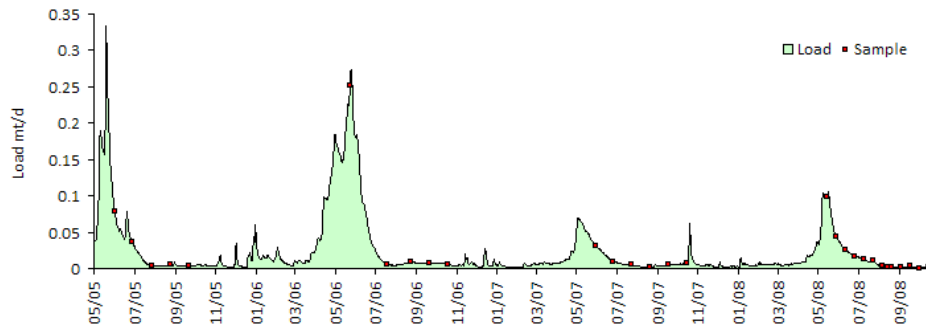
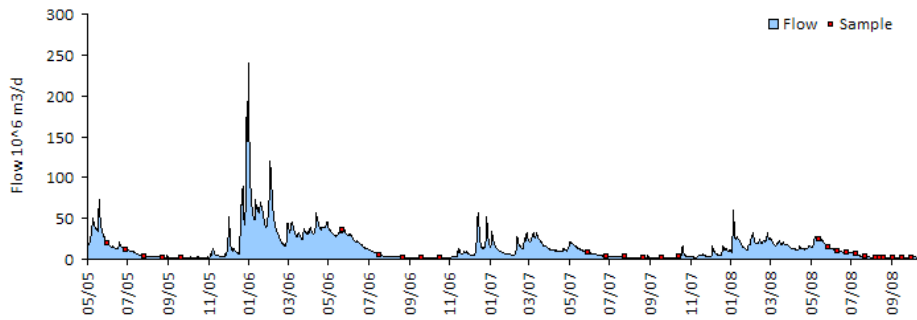
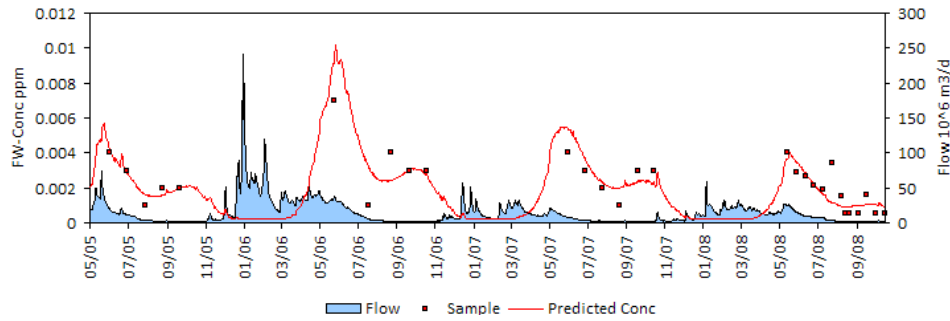
Dates: 05/01/2005 - 10/15/2008

Note: the yearly results are inaccurate due to lack of samples in winter high-flow periods.

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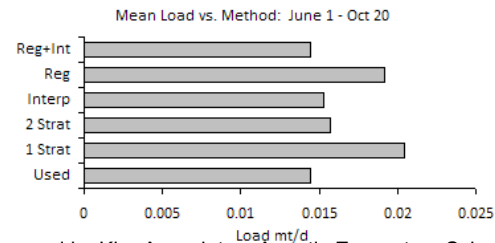
Daily Time Series:

Yearly Time Series:



Site: Trinity_R Trinity_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/15/08
 Samples 29
 Method: 5 - Regression + Interpolation

Variable: SRP
 Mean Daily Flow 14.593 10^6 m3/day
 Mean Daily Load 0.02 mt/day
 Flow-Wtd Conc 0.002 ppm
 Relative Std Error 12.8%
 Regression R2 62%
 Regression SE 0.59



Site: Trinity_R

Trinity_R

TN

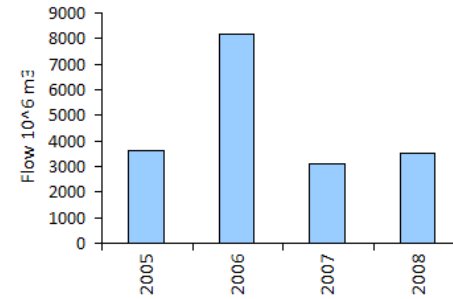
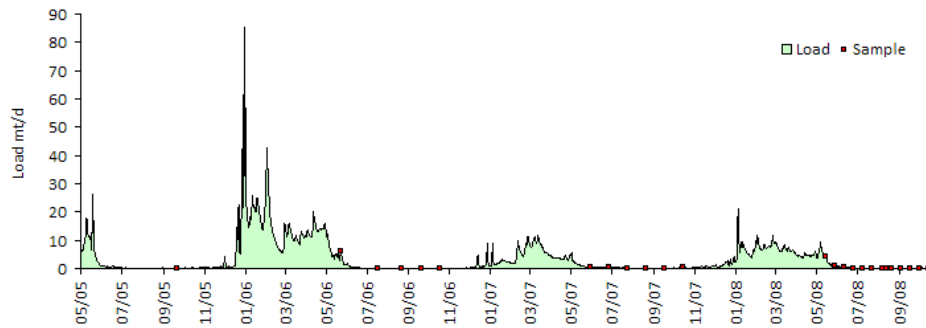
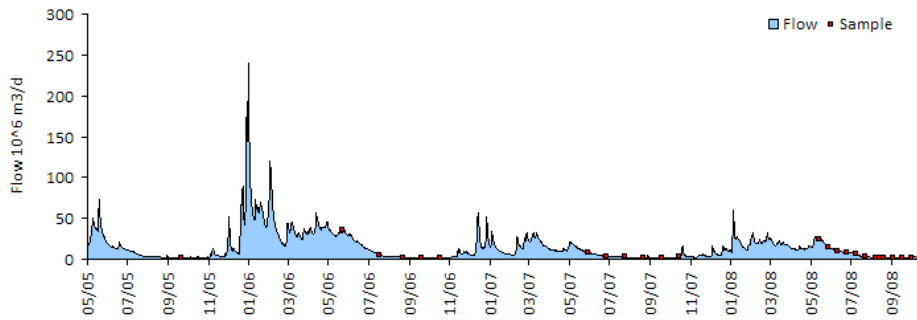
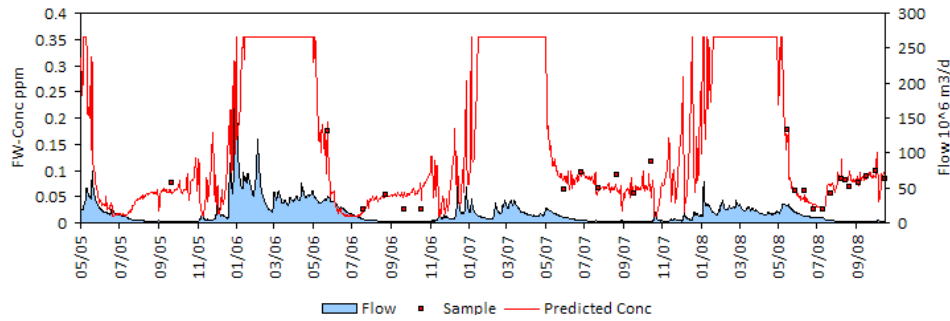
Dates: 05/01/2005 - 10/15/2008

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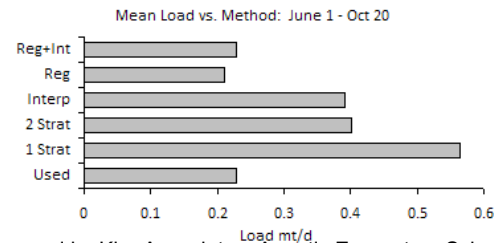
Daily Time Series:

Yearly Time Series:



Site: Trinity_R Trinity_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 09/21/05 10/15/08
 Samples 25
 Method: 5 - Regression + Interpolation

Variable: TN
 Mean Daily Flow 14.593 10^6 m3/day
 Mean Daily Load 3.48 mt/day
 Flow-Wtd Conc 0.238 ppm
 Relative Std Error 6.1%
 Regression R2 72%
 Regression SE 0.39



Site: Trinity_R

Trinity_R

TP

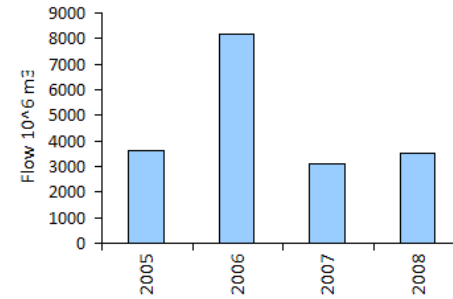
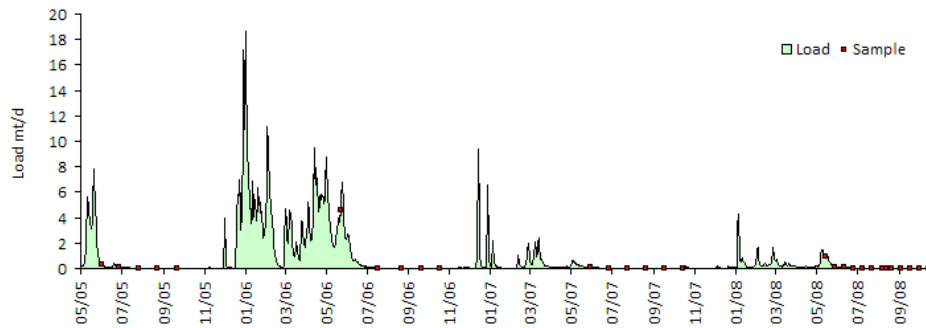
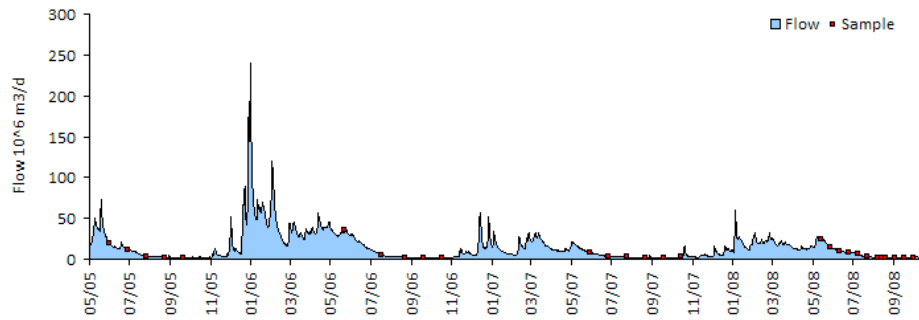
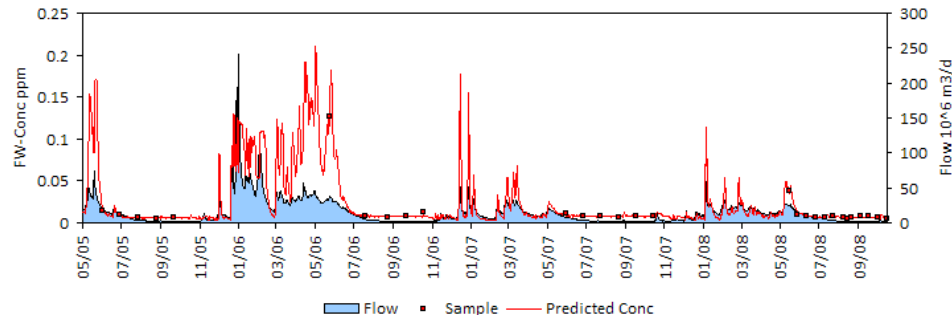
Dates: 05/01/2005 - 10/15/2008

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Daily Time Series:

Yearly Time Series:



Site: Trinity_R Trinity_R
 Output Period 05/01/05 10/15/08
 Calibration Period 05/01/05 10/15/08
 Sample Dates 06/01/05 10/15/08
 Samples 29
 Method: 5 - Regression + Interpolation

Variable: TP
 Mean Daily Flow 14.593 10⁶ m³/day
 Mean Daily Load 0.80 mt/day
 Flow-Wtd Conc 0.055 ppm
 Relative Std Error 3.0%
 Regression R2 94%
 Regression SE 0.19

