

Model Statistics, Data, and Plots

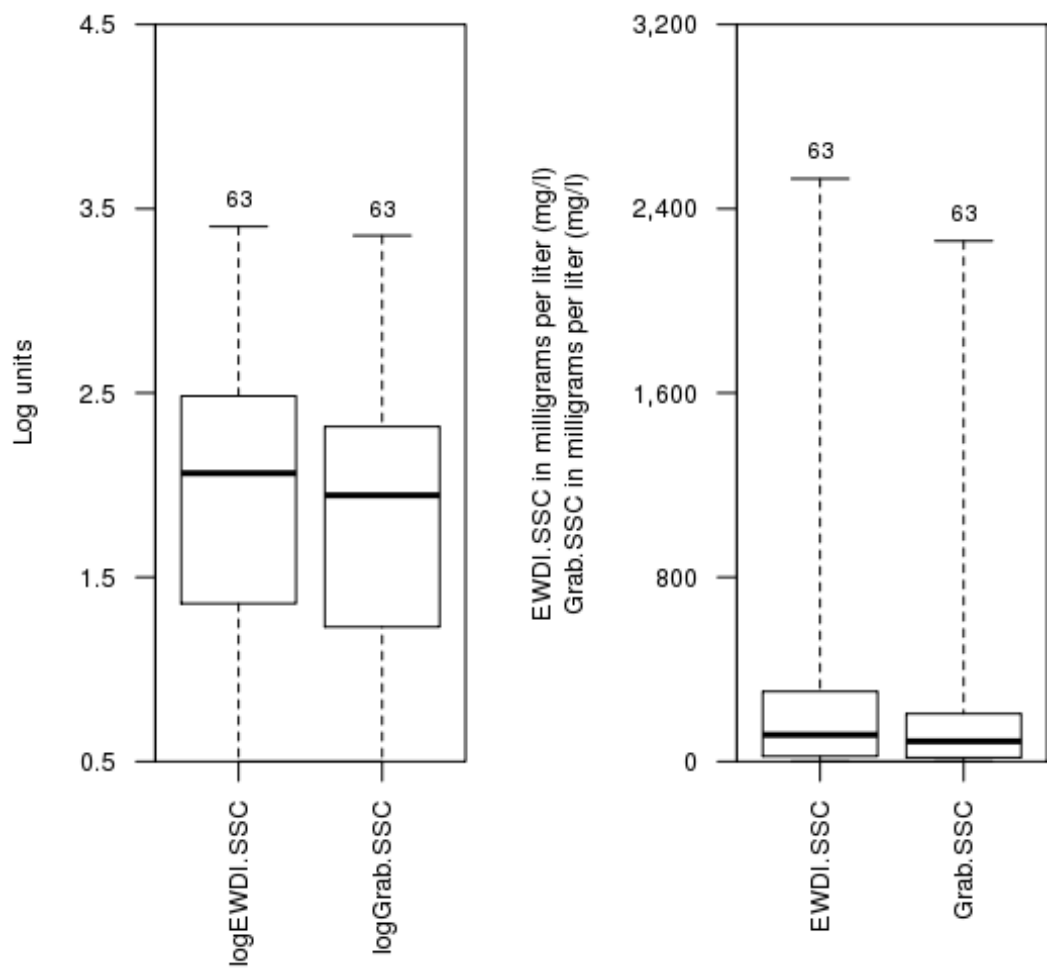
Model

$\text{logEWDI.SSC} = + 0.93 * \text{logGrab.SSC} + 0.276$

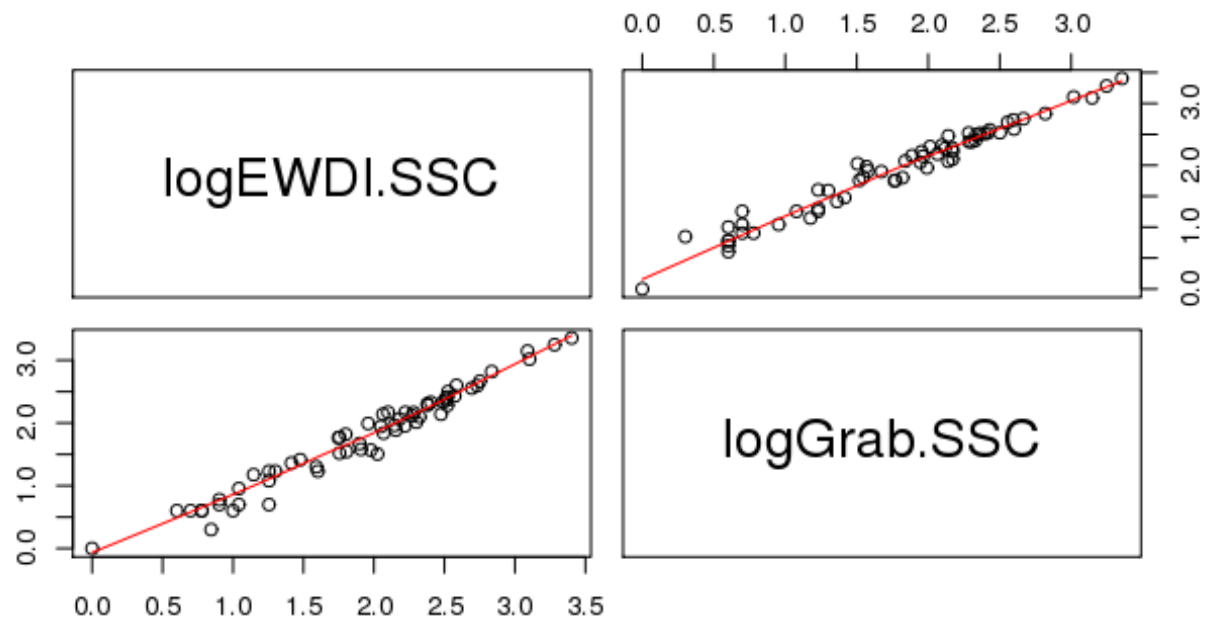
Variable Summary Statistics

	logEWDI.SSC	EWDI.SSC	logGrab.SSC	Grab.SSC
Minimum	0.00	1	0.00	1
1st Quartile	1.30	20	1.23	17
Median	2.06	116	1.94	88
Mean	1.93	255	1.78	213
3rd Quartile	2.49	310	2.33	214
Maximum	3.40	2530	3.35	2260

Box Plots



Exploratory Plots



Basic Model Statistics

Number of Observations	63
Standard error (RMSE)	0.139
Average Model standard percentage error (MSPE)	32.6
Coefficient of determination (R^2)	0.964
Adjusted Coefficient of Determination (Adj. R^2)	0.963
Bias Correction Factor (BCF)	1.05

Explanatory Variables

	Coefficients	Standard Error	t value	Pr(> t)
(Intercept)	0.276	0.0446	6.18	5.83e-08
logGrab.SSC	0.930	0.0230	40.40	1.00e-45

Correlation Matrix

	Intercept	E.vars
Intercept	1.000	-0.919
E.vars	-0.919	1.000

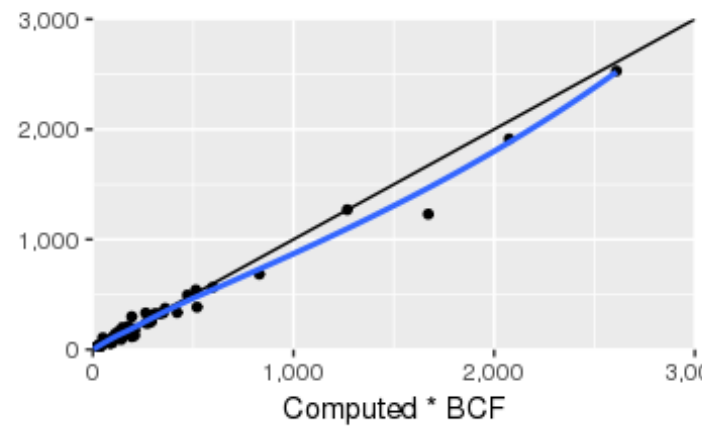
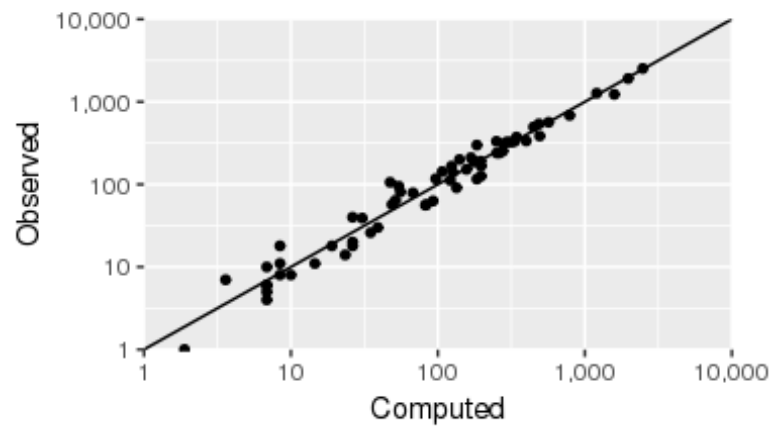
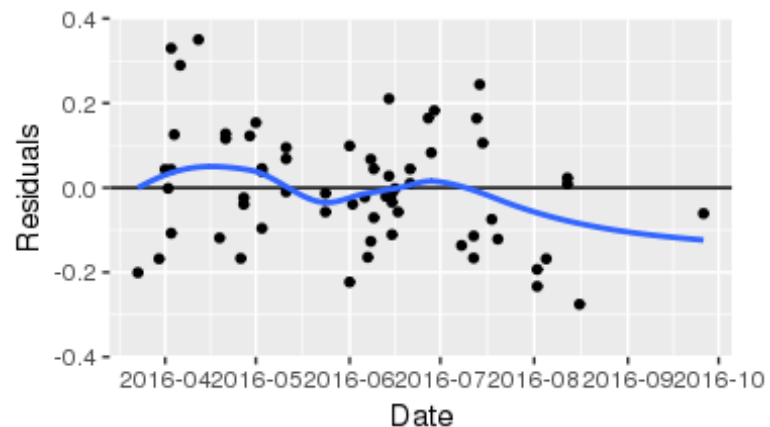
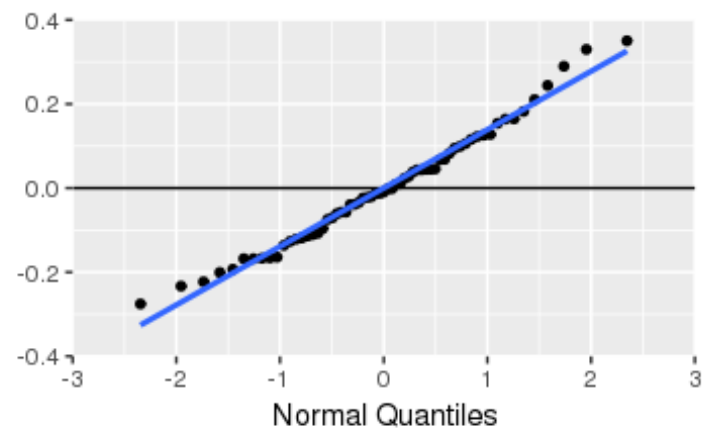
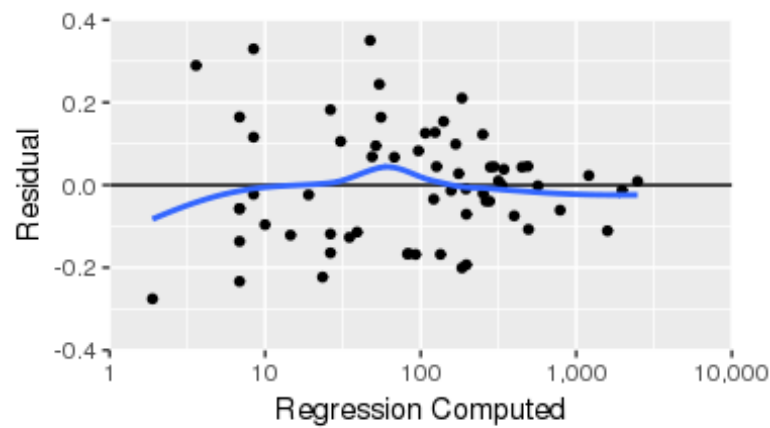
Outlier Test Criteria

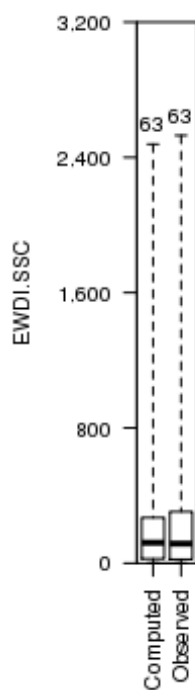
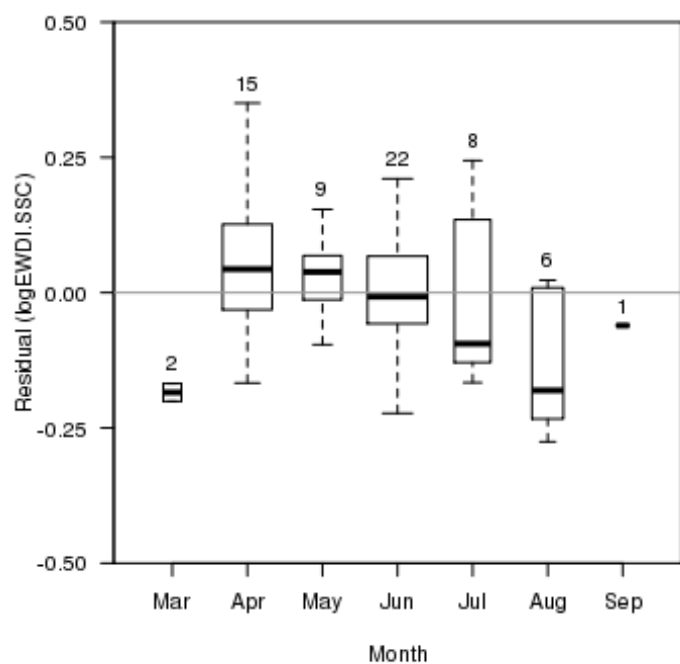
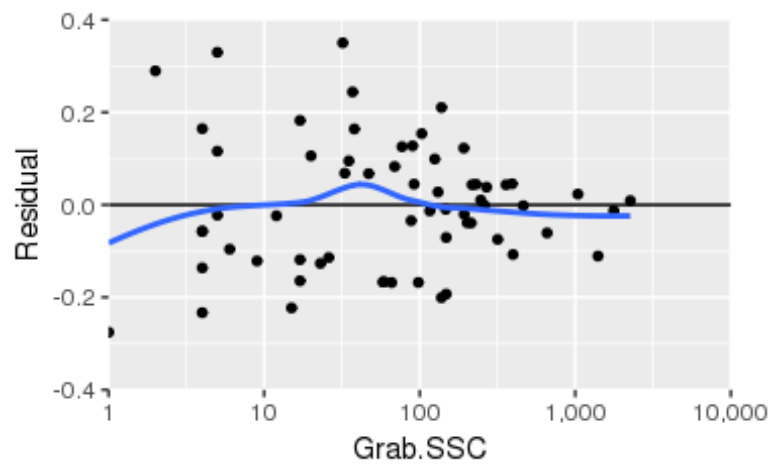
Leverage	Cook's D	DFFITS
0.0476	0.1055	0.2520

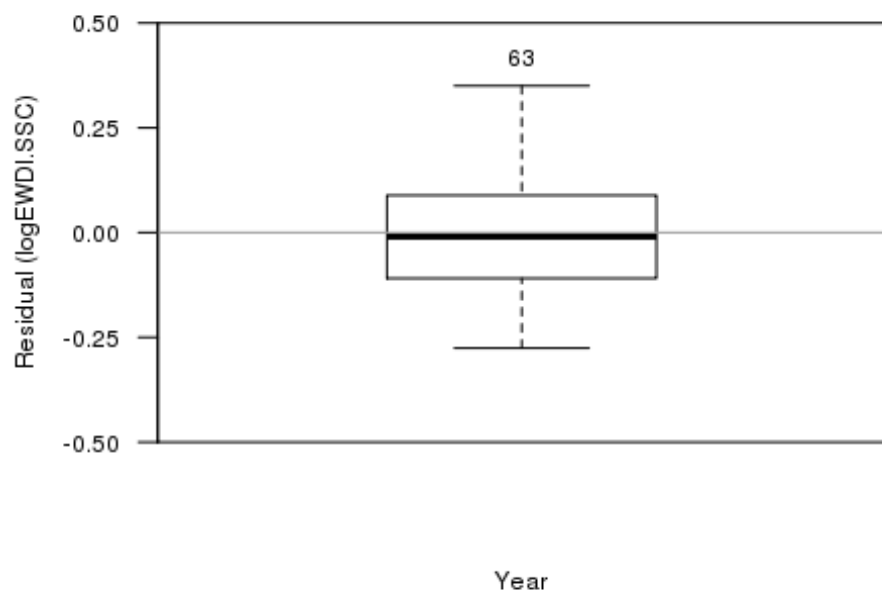
Flagged Observations

	logEWDI.SSC	Estimate	Residual	Standard	Residual	Studentized	Residual	Leverage	Cook's D	DFFITS
5/24/2016 12:15	0.778	0.835	-0.05720		-0.4220		-0.4200	0.0539	0.005080	-0.1000
8/16/2016 9:40	0.000	0.276	-0.27600		-2.0900		-2.1500	0.1030	0.249000	-0.7270
4/6/2016 15:35	0.845	0.555	0.29000		2.1600		2.2300	0.0758	0.192000	0.6390
6/1/2016 9:50	1.150	1.370	-0.22300		-1.6200		-1.6400	0.0259	0.035000	-0.2680
8/2/2016 10:35	0.602	0.835	-0.23300		-1.7200		-1.7500	0.0539	0.084500	-0.4180
4/3/2016 15:35	1.260	0.925	0.33000		2.4300		2.5300	0.0479	0.148000	0.5680
4/21/2016 10:05	1.040	0.925	0.11600		0.8530		0.8510	0.0479	0.018300	0.1910
6/6/2016 13:05	0.903	0.925	-0.02240		-0.1650		-0.1630	0.0479	0.000682	-0.0366
6/17/2016 11:40	0.778	0.835	-0.05720		-0.4220		-0.4200	0.0539	0.005080	-0.1000
6/27/2016 14:05	1.000	0.835	0.16500		1.2200		1.2200	0.0539	0.042100	0.2910
7/8/2016 12:15	0.699	0.835	-0.13600		-1.0100		-1.0100	0.0539	0.028900	-0.2400
6/15/2016 17:35	3.090	3.200	-0.11100		-0.8240		-0.8220	0.0668	0.024300	-0.2200
4/12/2016 12:05	2.030	1.680	0.35000		2.5400		2.6600	0.0180	0.058900	0.3600
8/11/2016 19:50	3.400	3.390	0.00897		0.0673		0.0668	0.0835	0.000207	0.0202
8/12/2016 7:00	3.100	3.080	0.02310		0.1710		0.1690	0.0576	0.000890	0.0419
6/15/2016 9:05	3.280	3.290	-0.01280		-0.0958		-0.0950	0.0746	0.000370	-0.0270

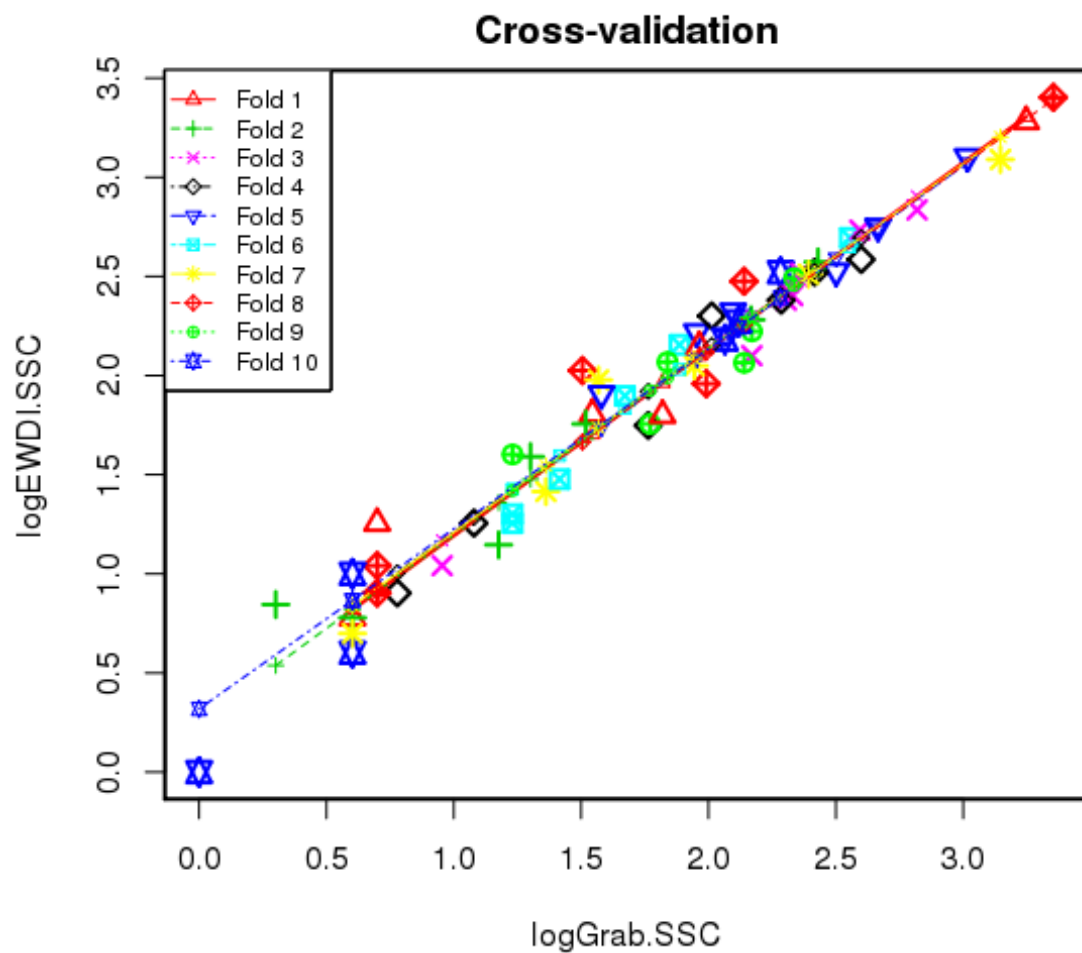
Statistical Plots



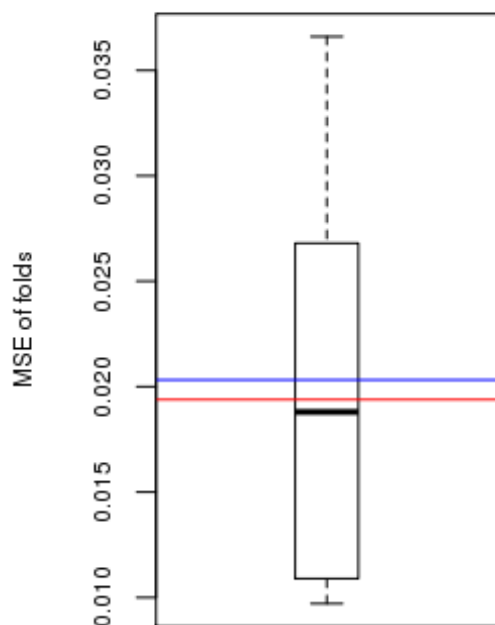




Cross Validation



Minimum MSE of folds: 0.00971
 Mean MSE of folds: 0.02030
 Median MSE of folds: 0.01880
 Maximum MSE of folds: 0.03660
 (Mean MSE of folds) / (Model MSE): 1.05000



Red line - Model MSE

Blue line - Mean MSE of folds

Model-Calibration Data Set

	Date	logEWDI.SSC	logGrab.SSC	EWDI.SSC	Grab.SSC	Computed logEWDI.SSC	Computed EWDI.SSC	Residual	Normal Quantiles	Censored Values
0										
1	2016-03-30	1.96	1.99	91	98	2.13	141	-0.168	-1.26	--
2	2016-04-19	1.3	1.23	20	17	1.42	27.7	-0.119	-0.789	--
3	2016-04-26	1.75	1.76	56	58	1.92	86.6	-0.167	-1.17	--
4	2016-05-24	0.778	0.602	6	4	0.835	7.21	-0.0572	-0.408	--
5	2016-06-07	1.26	1.23	18	17	1.42	27.7	-0.164	-1.03	--
6	2016-06-15	2.05	1.94	112	88	2.08	128	-0.0343	-0.24	--
7	2016-07-12	1.76	1.77	57	59	1.92	88	-0.166	-1.1	--
8	2016-08-16	0	0	1	1	0.276	1.99	-0.276	-2.35	--
9	2016-04-06	0.845	0.301	7	2	0.555	3.78	0.29	1.74	--
10	2016-04-27	1.26	1.08	18	12	1.28	20	-0.0237	-0.2	--
11	2016-05-03	0.903	0.778	8	6	0.999	10.5	-0.096	-0.587	--

12	2016-06-01	1.15	1.18	14	15	1.37	24.6	-0.223	-1.74	--
13	2016-06-08	1.41	1.36	26	23	1.54	36.7	-0.127	-0.902	--
14	2016-07-20	1.04	0.954	11	9	1.16	15.3	-0.121	-0.844	--
15	2016-08-02	0.602	0.602	4	4	0.835	7.21	-0.233	-1.95	--
16	2016-08-05	1.8	1.82	63	66	1.97	97.7	-0.168	-1.35	--
17	2016-04-03	1.26	0.699	18	5	0.925	8.87	0.33	1.95	--
18	2016-04-21	1.04	0.699	11	5	0.925	8.87	0.116	0.844	--
19	2016-06-06	0.903	0.699	8	5	0.925	8.87	-0.0224	-0.159	--
20	2016-06-17	0.778	0.602	6	4	0.835	7.21	-0.0572	-0.365	--
21	2016-06-27	1	0.602	10	4	0.835	7.21	0.165	1.26	--
22	2016-07-08	0.699	0.602	5	4	0.835	7.21	-0.136	-0.963	--
23	2016-07-12	1.48	1.41	30	26	1.59	41.1	-0.114	-0.736	--
24	2016-07-15	1.59	1.3	39	20	1.49	32.2	0.106	0.789	--
25	2016-04-04	2.16	1.89	143	77	2.03	113	0.126	0.963	--
26	2016-04-21	2.22	1.95	166	90	2.09	130	0.128	1.03	--
27	2016-04-29	2.52	2.28	332	192	2.4	264	0.123	0.902	--
28	2016-05-01	2.3	2.01	200	103	2.15	148	0.154	1.1	--
29	2016-06-01	2.32	2.1	211	125	2.23	177	0.099	0.736	--
30	2016-06-29	1.6	1.23	40	17	1.42	27.7	0.182	1.35	--
31	2016-07-18	2.53	2.5	336	317	2.6	420	-0.0747	-0.541	--
32	2016-04-01	2.69	2.56	495	359	2.65	472	0.0434	0.323	--
33	2016-04-03	2.59	2.6	385	398	2.69	519	-0.107	-0.635	--
34	2016-04-27	2.4	2.33	253	214	2.44	292	-0.0392	-0.323	--
35	2016-05-03	2.73	2.59	541	393	2.69	513	0.0454	0.495	--
36	2016-05-11	2.28	2.17	191	147	2.29	206	-0.00967	0	--
37	2016-05-24	2.18	2.06	152	116	2.2	165	-0.0132	-0.0794	--
38	2016-06-15	3.09	3.15	1230	1400	3.2	1670	-0.111	-0.684	--
39	2016-06-21	2.52	2.36	328	230	2.47	312	0.0444	0.408	--
40	2016-09-26	2.84	2.82	685	659	2.9	830	-0.0608	-0.451	--
41	2016-04-02	2.52	2.42	332	261	2.52	351	-0.00137	0.0794	--
42	2016-05-03	2.57	2.43	374	269	2.53	361	0.0382	0.281	--
43	2016-06-02	2.38	2.31	240	202	2.42	276	-0.0388	-0.281	--
44	2016-06-09	2.22	2.17	167	148	2.29	207	-0.0707	-0.495	--
45	2016-06-14	2.27	2.12	187	131	2.24	185	0.0277	0.24	--
46	2016-06-16	2.75	2.67	565	463	2.75	598	-0.00192	0.0397	--
47	2016-06-21	2.51	2.39	324	247	2.5	333	0.0103	0.159	--
48	2016-08-02	2.1	2.17	126	148	2.29	207	-0.193	-1.46	--
49	2016-04-12	2.03	1.51	106	32	1.68	49.8	0.35	2.35	--
50	2016-05-11	1.81	1.54	64	35	1.71	54.2	0.095	0.684	--
51	2016-06-08	1.9	1.67	79	47	1.83	71.2	0.0674	0.541	--
52	2016-06-13	2.38	2.29	240	193	2.4	265	-0.0204	-0.119	--
53	2016-06-28	2.07	1.84	117	69	1.99	102	0.0829	0.635	--
54	2016-07-14	1.98	1.57	95	37	1.73	57	0.244	1.58	--
55	2016-08-12	3.4	3.35	2530	2260	3.39	2610	0.00897	0.119	--
56	2016-08-12	3.1	3.02	1270	1040	3.08	1270	0.0231	0.2	--
57	2016-03-23	2.06	2.14	116	138	2.27	194	-0.201	-1.58	--
58	2016-04-03	2.49	2.34	310	217	2.45	295	0.0434	0.365	--
59	2016-05-11	1.76	1.52	57	33	1.69	51.3	0.0684	0.587	--
60	2016-06-09	2.15	1.96	140	92	2.1	133	0.0447	0.451	--
61	2016-06-14	2.48	2.14	299	138	2.27	194	0.21	1.46	--
62	2016-06-15	3.28	3.25	1910	1770	3.29	2070	-0.0128	-0.0397	--
63	2016-07-13	1.91	1.58	81	38	1.74	58.5	0.164	1.17	--

Definitions

EWDI.SSC: Suspended sediment concentration (SSC) in mg/l (80154)

Grab.SSC: Suspended sediment concentration (SSC) in mg/l (80154)

App Version 1.0