

Appendix 6. Summary Statistics for Selected Constituents

Table A6.1. Fox River Summary Statistics for Organic Nitrogen

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
23	Route 176	20	1.93	1.87	0.60	0.98	3.21	1.60	2.19	1.17	0.19
24	Algonquin	25	1.72	1.76	0.55	0.61	2.91	1.25	2.03	0.16	-0.25
26	South Elgin	125	1.72	1.70	0.64	0.46	3.22	1.30	2.10	1.80	-0.78
27	Montgomery	24	1.81	1.78	0.53	1.06	2.96	1.32	2.21	1.02	-0.65
34	Yorkville	25	1.88	1.79	0.65	1.13	3.40	1.34	2.20	1.62	-0.24
35	National St., Elgin	2	1.28	1.28	0.18	1.15	1.40	1.15	1.40	N/A	N/A
40	Geneva	20	1.83	1.85	0.66	0.85	3.43	1.45	1.93	1.51	0.94
184	Johnsburg	23	1.84	1.84	0.65	0.95	3.36	1.24	2.11	1.17	0.05
240	I-90 Bridge N of Elgin	79	1.80	1.73	0.65	0.38	3.52	1.40	2.24	0.61	-0.13
273	Kimball-Lawrence St., Elgin	2	3.59	3.59	1.55	2.49	4.68	2.49	4.68	N/A	N/A

Notes: No data are available for tributaries. N/A = not applicable.

Table A6.2. Fox River Summary Statistics for Ammonia Nitrogen

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
23	Route 176	69	0.10	0.04	0.14	0.01	0.77	0.01	0.15	8.05	12.65
24	Algonquin	74	0.14	0.04	0.31	0.01	2.40	0.01	0.19	20.75	73.46
26	South Elgin	203	0.13	0.07	0.17	0.00	1.40	0.03	0.18	21.63	61.12
27	Montgomery	314	0.10	0.05	0.12	0.01	0.66	0.02	0.12	16.89	21.59
31	Route 71, Ottawa	46	0.10	0.01	0.15	0.01	0.59	0.01	0.15	5.34	4.04
33	Route 34, Oswego	241	0.06	0.03	0.08	0.01	0.53	0.02	0.07	18.07	29.53
34	Yorkville	74	0.10	0.05	0.11	0.02	0.51	0.03	0.13	7.38	7.15
35	National St., Elgin	19	0.11	0.08	0.09	0.01	0.29	0.02	0.19	1.09	-0.84
37	Wedron Blacktop Bridge south of Wedron	2	0.01	0.01	0.00	0.01	0.01	0.01	0.01	N/A	N/A
40	Geneva	23	0.19	0.06	0.49	0.01	2.41	0.04	0.14	9.09	21.48
184	Johnsburg	23	0.07	0.05	0.05	0.03	0.20	0.03	0.10	2.43	0.41
197	Route 173, Wisconsin-Illinois border	47	0.14	0.05	0.22	0.01	1.10	0.01	0.19	8.03	13.15
240	I-90 Bridge N of Elgin	111	0.11	0.08	0.09	0.00	0.55	0.04	0.13	9.10	13.55
273	Kimball-Lawrence St., Elgin	19	0.10	0.06	0.09	0.02	0.28	0.02	0.17	1.24	-0.73

Note: N/A = not applicable.

Table A6.3. Fox River Tributaries Summary Statistics for Ammonia Nitrogen

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
3	Boone Creek, Bull Valley Road	2	0.03	0.03	0.03	0.01	0.05	0.01	0.05	N/A	N/A
4	Flint Creek near Fox River Grove	1	0.20	0.20	0.00	0.20	0.20	0.20	0.20	N/A	N/A
5	Tyler Creek at Randall Road	1	0.08	0.08	0.00	0.08	0.08	0.08	0.08	N/A	N/A
14	Ferson Creek, Leroy Oaks	2	0.03	0.03	0.02	0.01	0.04	0.01	0.04	N/A	N/A
19	Little Rock Creek near Plano	1	0.01	0.01	0.00	0.01	0.01	0.01	0.01	N/A	N/A
22	Buck Creek, County Road 1900	2	0.05	0.05	0.05	0.01	0.08	0.01	0.08	N/A	N/A
25	Poplar Creek, Route 20	49	0.16	0.04	0.36	0.01	2.40	0.01	0.19	15.51	47.51
28	Blackberry Creek, Route 47	48	0.15	0.03	0.22	0.01	1.20	0.01	0.25	7.90	14.45
29	Somonauk Creek, 1 mi N of Sheridan	42	0.17	0.05	0.24	0.01	1.20	0.01	0.27	6.57	10.55
94	Little Indian Creek at Suyndam Road	2	0.02	0.02	0.01	0.01	0.02	0.01	0.02	N/A	N/A
99	Big Rock Creek at Jerico Road	1	0.04	0.04	0.00	0.04	0.04	0.04	0.04	N/A	N/A
236	Nippersink Creek, Spring Grove	43	0.19	0.13	0.20	0.01	0.80	0.01	0.25	3.81	2.29
268	Tyler Creek, Route 31	19	0.05	0.05	0.03	0.02	0.10	0.03	0.08	0.85	-0.95
615	Poplar Creek, Raymond St.	19	0.07	0.06	0.03	0.03	0.15	0.04	0.10	1.48	0.00

Note: N/A = not applicable.

Table A6.4. Fox River Summary Statistics for Nitrate Nitrogen

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
23	Route 176	20	0.70	0.46	0.47	0.28	1.85	0.37	0.94	2.39	0.72
24	Algonquin	25	1.02	0.73	0.76	0.30	3.00	0.39	1.48	2.09	0.18
26	South Elgin	138	1.60	1.48	0.81	0.38	4.37	0.98	2.06	4.48	1.57
27	Montgomery	45	1.66	1.40	1.05	0.43	4.56	0.74	2.40	2.17	-0.24
33	Route 34, Oswego	20	2.53	2.23	1.74	0.60	7.30	1.38	2.86	3.17	2.81
34	Yorkville	25	1.68	1.29	1.26	0.46	5.14	0.76	2.26	2.89	1.34
35	National St., Elgin	4	1.40	1.16	0.66	0.92	2.37	0.98	1.83	1.39	1.19
40	Geneva	21	0.95	0.68	0.59	0.50	2.66	0.58	0.96	3.22	2.27
184	Johnsburg	23	0.91	0.57	0.64	0.28	2.11	0.38	1.58	1.60	-0.87
240	I-90 Bridge N of Elgin	95	1.32	1.30	0.57	0.37	3.46	0.84	1.72	3.01	1.56
273	Kimball-Lawrence St., Elgin	4	1.33	1.07	0.67	0.88	2.32	0.91	1.76	1.43	1.24

Notes: No data are available for tributaries.

Table A6.5. Fox River Summary Statistics for Kjeldahl Nitrogen

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
23	Route 176	58	1.63	1.56	0.83	0.30	4.37	0.97	2.04	3.26	2.11
24	Algonquin	63	1.53	1.50	0.63	0.10	2.95	1.08	2.04	-0.08	-0.53
26	South Elgin	172	1.76	1.70	0.65	0.10	3.66	1.34	2.14	1.81	0.31
27	Montgomery	80	1.70	1.67	0.70	0.23	3.57	1.24	2.04	1.30	0.25
31	Route 71, Ottawa	34	1.44	1.42	0.77	0.37	3.30	0.73	1.90	1.59	0.00
33	Route 34, Oswego	20	1.75	1.51	0.77	0.90	3.81	1.20	2.10	2.27	1.21
34	Yorkville	25	1.97	1.86	0.61	1.22	3.43	1.54	2.25	1.76	-0.01
40	Geneva	21	1.95	1.91	0.64	0.91	3.51	1.53	2.06	1.37	0.83
184	Johnsburg	23	1.91	1.92	0.65	1.00	3.39	1.29	2.15	1.10	-0.17
197	Route 173, Wisconsin-Illinois border	40	1.17	1.23	0.64	0.01	2.67	0.64	1.65	0.31	-0.84
240	I-90 Bridge N of Elgin	86	1.89	1.80	0.62	0.50	3.54	1.48	2.33	0.94	-0.23
273	Kimball-Lawrence St., Elgin	2	3.61	3.61	1.54	2.52	4.70	2.52	4.70	N/A	N/A

Note: N/A = not applicable.

Table A6.6. Fox River Tributaries Summary Statistics for Kjeldahl Nitrogen

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
1	Nippersink Creek, Thompson Road by Wonder Lake	38	1.05	0.66	1.00	0.31	4.19	0.44	1.28	5.23	4.53
2	North Branch Nippersink Creek near Richmond	1	0.71	0.71	0.00	0.71	0.71	0.71	0.71	N/A	N/A
3	Boone Creek, Bull Valley Road	1	0.50	0.50	0.00	0.50	0.50	0.50	0.50	N/A	N/A
4	Flint Creek near Fox River Grove	1	1.41	1.41	0.00	1.41	1.41	1.41	1.41	N/A	N/A
5	Tyler Creek at Randall Road	1	0.92	0.92	0.00	0.92	0.92	0.92	0.92	N/A	N/A
14	Ferson Creek, Leroy Oaks	1	0.55	0.55	0.00	0.55	0.55	0.55	0.55	N/A	N/A
15	Mill Creek at Mooseheart	1	0.75	0.75	0.00	0.75	0.75	0.75	0.75	N/A	N/A
16	Waubensee Creek, Oswego	1	0.48	0.48	0.00	0.48	0.48	0.48	0.48	N/A	N/A
17	Blackberry Creek near Bristol	1	0.56	0.56	0.00	0.56	0.56	0.56	0.56	N/A	N/A
18	Big Rock Creek near Sugar Grove	1	0.56	0.56	0.00	0.56	0.56	0.56	0.56	N/A	N/A
19	Little Rock Creek near Plano	1	0.63	0.63	0.00	0.63	0.63	0.63	0.63	N/A	N/A
20	Somonauk Creek near Sandwich	1	0.45	0.45	0.00	0.45	0.45	0.45	0.45	N/A	N/A
21	Indian Creek near Harding	1	0.56	0.56	0.00	0.56	0.56	0.56	0.56	N/A	N/A
22	Buck Creek, County Road 1900	1	0.61	0.61	0.00	0.61	0.61	0.61	0.61	N/A	N/A
25	Poplar Creek, Route 20	41	0.98	0.81	1.14	0.10	7.50	0.57	1.10	12.77	36.60
28	Blackberry Creek, Route 47	27	0.82	0.52	0.76	0.10	3.14	0.23	1.04	3.36	2.41
29	Somonauk Creek, 1 mi N of Sheridan	25	0.71	0.55	0.49	0.13	1.83	0.34	1.04	1.90	-0.03
236	Nippersink Creek, Spring Grove	26	0.88	0.79	0.43	0.10	2.16	0.61	1.00	2.86	2.89
268	Tyler Creek, Route 31	2	0.88	0.88	0.04	0.85	0.90	0.85	0.90	N/A	N/A

Note: N/A = not applicable.

Table A6.7. Fox River Summary Statistics for Nitrate-Nitrite Nitrogen

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
23	Route 176	43	1.01	0.67	0.99	0.01	2.90	0.01	2.00	1.41	-1.64
24	Algonquin	40	1.04	0.92	0.92	0.01	3.50	0.06	1.64	1.68	-0.17
26	South Elgin	40	1.41	1.42	0.78	0.01	3.10	0.84	1.76	0.49	-0.37
27	Montgomery	34	1.56	1.40	0.90	0.07	3.30	0.98	2.23	0.49	-1.10
31	Route 71, Ottawa	34	2.71	2.76	1.87	0.01	7.00	1.12	4.20	0.30	-0.89
33	Route 34, Oswego	2	1.10	1.10	0.00	1.10	1.10	1.10	1.10	N/A	N/A
37	Wedron Blacktop Bridge south of Wedron	2	0.63	0.63	0.58	0.22	1.04	0.22	1.04	N/A	N/A
40	Geneva	2	0.46	0.46	0.50	0.10	0.81	0.10	0.81	N/A	N/A
197	Route 173, Wisconsin-Illinois border	38	1.91	1.90	1.01	0.50	4.20	1.04	2.60	1.40	-0.65

Note: N/A = not applicable.

Table A6.8. Fox River Tributaries Summary Statistics for Nitrate-Nitrite Nitrogen

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
3	Boone Creek, Bull Valley Road	2	1.51	1.51	0.40	1.22	1.79	1.22	1.79	N/A	N/A
4	Flint Creek near Fox River Grove	1	0.48	0.48	0.00	0.48	0.48	0.48	0.48	N/A	N/A
5	Tyler Creek at Randall Road	1	1.90	1.90	0.00	1.90	1.90	1.90	1.90	N/A	N/A
14	Ferson Creek, Leroy Oaks	2	1.06	1.06	0.09	0.99	1.12	0.99	1.12	N/A	N/A
19	Little Rock Creek near Plano	1	3.25	3.25	0.00	3.25	3.25	3.25	3.25	N/A	N/A
22	Buck Creek, County Road 1900	2	2.80	2.80	2.87	0.77	4.83	0.77	4.83	N/A	N/A
25	Poplar Creek, Route 20	38	0.69	0.73	0.31	0.13	1.52	0.47	0.79	1.92	1.34
28	Blackberry Creek, Route 47	36	2.75	2.30	2.00	0.11	8.20	1.22	3.34	3.20	1.71
29	Somonauk Creek, 1 mi N of Sheridan	36	4.31	3.50	3.19	0.51	11.70	1.54	6.55	1.88	-0.53
94	Little Indian Creek at Suyndam Road	2	1.74	1.74	2.26	0.14	3.33	0.14	3.33	N/A	N/A
99	Big Rock Creek at Jerico Road	1	1.40	1.40	0.00	1.40	1.40	1.40	1.40	N/A	N/A
236	Nippersink Creek, Spring Grove	38	3.02	2.65	1.00	1.82	5.90	2.30	3.50	2.97	1.09

Note: N/A = not applicable.

Table A6.9. Fox River Summary Statistics for Total Phosphorus

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
23	Route 176	58	0.14	0.12	0.08	0.01	0.33	0.07	0.21	1.82	-1.17
24	Algonquin	60	0.19	0.17	0.11	0.02	0.43	0.10	0.30	1.42	-1.57
26	South Elgin	181	0.29	0.24	0.17	0.08	1.56	0.18	0.34	15.53	42.52
27	Montgomery	60	0.36	0.33	0.18	0.12	0.82	0.23	0.49	2.32	-0.58
31	Route 71, Ottawa	33	0.23	0.21	0.09	0.12	0.49	0.17	0.29	2.38	1.02
33	Route 34, Oswego	2	0.53	0.53	0.18	0.40	0.65	0.40	0.65	N/A	N/A
34	Yorkville	26	0.65	0.71	0.21	0.25	1.01	0.49	0.80	-0.53	-0.78
35	National St., Elgin	19	0.22	0.20	0.07	0.15	0.36	0.16	0.25	1.43	-0.35
37	Wedron Blacktop Bridge south of Wedron	2	0.39	0.39	0.08	0.33	0.44	0.33	0.44	N/A	N/A
40	Geneva	24	0.48	0.51	0.16	0.24	0.78	0.35	0.56	0.20	-0.95
184	Johnsburg Route 173, Wisconsin-Illinois border	24	0.18	0.16	0.08	0.09	0.36	0.12	0.25	1.45	-0.50
197		37	0.10	0.09	0.05	0.01	0.22	0.06	0.12	1.54	-0.09
240	I-90 Bridge N of Elgin	97	0.19	0.19	0.06	0.10	0.35	0.14	0.23	1.68	-0.77
273	Kimball-Lawrence St., Elgin	19	0.22	0.20	0.07	0.13	0.37	0.17	0.27	1.48	0.04

Note: N/A = not applicable.

Table A6.10. Fox River Tributaries Summary Statistics for Total Phosphorus

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
1	Nippersink Creek, Thompson Road by Wonder Lake	39	0.20	0.08	0.27	0.03	1.16	0.05	0.18	5.66	5.49
2	North Branch Nippersink Creek near Richmond	1	0.10	0.10	0.00	0.10	0.10	0.10	0.10	N/A	N/A
3	Boone Creek, Bull Valley Road	3	0.03	0.02	0.02	0.02	0.05	0.02	0.05	1.19	N/A
4	Flint Creek near Fox River Grove	2	0.40	0.40	0.03	0.38	0.43	0.38	0.43	N/A	N/A
5	Tyler Creek at Randall Road	2	0.18	0.18	0.06	0.14	0.22	0.14	0.22	N/A	N/A
14	Ferson Creek, Leroy Oaks	3	0.12	0.09	0.06	0.09	0.19	0.09	0.19	1.22	N/A
15	Mill Creek at Mooseheart	1	0.11	0.11	0.00	0.11	0.11	0.11	0.11	N/A	N/A
16	Waubensee Creek, Oswego	1	0.03	0.03	0.00	0.03	0.03	0.03	0.03	N/A	N/A
17	Blackberry Creek near Bristol	1	0.08	0.08	0.00	0.08	0.08	0.08	0.08	N/A	N/A
18	Big Rock Creek near Sugar Grove	1	0.04	0.04	0.00	0.04	0.04	0.04	0.04	N/A	N/A
19	Little Rock Creek near Plano	2	0.20	0.20	0.04	0.17	0.23	0.17	0.23	N/A	N/A
20	Somonauk Creek near Sandwich	1	0.05	0.05	0.00	0.05	0.05	0.05	0.05	N/A	N/A
21	Indian Creek near Harding	1	0.03	0.03	0.00	0.03	0.03	0.03	0.03	N/A	N/A
22	Buck Creek, County Road 1900	3	0.07	0.07	0.04	0.04	0.11	0.04	0.11	0.20	N/A
25	Poplar Creek, Route 20	38	0.06	0.06	0.04	0.03	0.24	0.04	0.07	5.91	9.13
28	Blackberry Creek, Route 47	36	0.12	0.10	0.08	0.02	0.33	0.05	0.16	2.63	0.57
29	Somonauk Creek, 1 mi N of Sheridan	35	0.09	0.06	0.11	0.02	0.62	0.04	0.09	9.56	22.34
94	Little Indian Creek at Suydam Road	2	0.10	0.10	0.04	0.07	0.12	0.07	0.12	N/A	N/A
99	Big Rock Creek at Jerico Road	1	0.20	0.20	0.00	0.20	0.20	0.20	0.20	N/A	N/A
236	Nippersink Creek, Spring Grove	36	0.11	0.10	0.05	0.04	0.26	0.08	0.15	2.32	0.71
268	Tyler Creek, Route 31	19	0.19	0.16	0.11	0.06	0.54	0.11	0.24	3.33	3.94
615	Poplar Creek, Raymond St.	19	0.20	0.17	0.08	0.10	0.38	0.15	0.26	1.66	0.31

Note: N/A = not applicable.

Table A6.11. Fox River Summary Statistics for Dissolved Phosphorus

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
23	Route 176	65	0.02	0.02	0.02	0.01	0.13	0.01	0.03	9.43	16.77
24	Algonquin	62	0.06	0.02	0.14	0.01	1.10	0.02	0.04	21.48	78.47
26	South Elgin	162	0.17	0.15	0.11	0.01	0.46	0.09	0.25	3.70	-0.76
27	Montgomery	61	0.17	0.11	0.14	0.01	0.61	0.06	0.26	3.75	1.54
31	Route 71, Ottawa	34	0.09	0.07	0.07	0.02	0.37	0.05	0.11	6.00	11.26
33	Route 34, Oswego	2	0.32	0.32	0.13	0.22	0.41	0.22	0.41	N/A	N/A
34	Yorkville	25	0.38	0.39	0.22	0.06	0.80	0.17	0.54	0.42	-0.96
37	Wedron Blacktop Bridge south of Wedron	2	0.10	0.10	0.08	0.04	0.15	0.04	0.15	N/A	N/A
40	Geneva	24	0.19	0.18	0.14	0.02	0.43	0.07	0.31	0.72	-1.36
184	Johnsburg	24	0.04	0.03	0.04	0.01	0.19	0.02	0.04	6.43	11.80
197	Route 173, Wisconsin-Illinois border	43	0.02	0.01	0.02	0.01	0.08	0.01	0.02	6.55	8.46
240	I-90 Bridge N of Elgin	79	0.13	0.12	0.06	0.02	0.36	0.09	0.17	4.27	5.05

Note: N/A = not applicable.

Table A6.12. Fox River Tributaries Summary Statistics for Dissolved Phosphorus

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard. kurtosis</i>
1	Nippersink Creek, Thompson Road by Wonder Lake	39	0.05	0.03	0.05	0.01	0.19	0.02	0.06	4.16	1.77
2	North Branch Nippersink Creek near Richmond	1	0.04	0.04	0.00	0.04	0.04	0.04	0.04	N/A	N/A
3	Boone Creek, Bull Valley Road	3	0.01	0.01	0.00	0.01	0.01	0.01	0.01	-1.22	N/A
4	Flint Creek near Fox River Grove	2	0.23	0.23	0.07	0.18	0.28	0.18	0.28	N/A	N/A
5	Tyler Creek at Randall Road	2	0.08	0.08	0.03	0.06	0.10	0.06	0.10	N/A	N/A
14	Ferson Creek, Leroy Oaks	3	0.06	0.05	0.04	0.03	0.11	0.03	0.11	0.87	N/A
15	Mill Creek at Mooseheart	1	0.05	0.05	0.00	0.05	0.05	0.05	0.05	N/A	N/A
16	Waubensee Creek, Oswego	1	0.01	0.01	0.00	0.01	0.01	0.01	0.01	N/A	N/A
17	Blackberry Creek near Bristol	1	0.06	0.06	0.00	0.06	0.06	0.06	0.06	N/A	N/A
18	Big Rock Creek near Sugar Grove	1	0.03	0.03	0.00	0.03	0.03	0.03	0.03	N/A	N/A
19	Little Rock Creek near Plano	2	0.18	0.18	0.02	0.17	0.19	0.17	0.19	N/A	N/A
20	Somonauk Creek near Sandwich	1	0.05	0.05	0.00	0.05	0.05	0.05	0.05	N/A	N/A
21	Indian Creek near Harding	1	0.01	0.01	0.00	0.01	0.01	0.01	0.01	N/A	N/A
22	Buck Creek, County Road 1900	3	0.04	0.04	0.02	0.02	0.06	0.02	0.06	0.05	N/A
25	Poplar Creek, Route 20	46	0.02	0.02	0.01	0.01	0.04	0.01	0.03	1.99	-1.21
28	Blackberry Creek, Route 47	46	0.04	0.02	0.03	0.01	0.12	0.01	0.05	2.84	0.17
29	Somonauk Creek, 1 mi N of Sheridan	43	0.03	0.02	0.04	0.01	0.20	0.01	0.03	9.80	18.85
94	Little Indian Creek at Suydam Road	2	0.07	0.07	0.02	0.05	0.08	0.05	0.08	N/A	N/A
99	Big Rock Creek at Jerico Road	1	0.13	0.13	0.00	0.13	0.13	0.13	0.13	N/A	N/A
236	Nippersink Creek, Spring Grove	39	0.03	0.03	0.02	0.01	0.11	0.02	0.04	4.12	4.46

Note: N/A = not applicable.

Table A6.13. Fox River Tributaries Summary Statistics for Dissolved Oxygen

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
1	Nippersink Creek, Thompson Road by Wonder Lake	37	11.09	10.30	2.75	6.30	16.90	9.10	12.90	1.41	-0.80
2	North Branch Nippersink Creek near Richmond	2	7.70	7.70	0.00	7.70	7.70	7.70	7.70	N/A	N/A
3	Boone Creek, Bull Valley Road	4	10.47	10.75	1.50	8.66	11.70	9.23	11.70	-0.39	-1.36
4	Flint Creek near Fox River Grove	3	7.06	7.50	0.76	6.19	7.50	6.19	7.50	-1.22	
5	Tyler Creek at Randall Road	4	8.46	8.60	0.28	8.04	8.60	8.32	8.60	-1.63	1.63
14	Ferson Creek, Leroy Oaks	5	12.05	13.40	1.98	9.00	13.40	11.06	13.40	-1.07	-0.06
15	Mill Creek at Mooseheart	2	7.50	7.50	0.00	7.50	7.50	7.50	7.50	N/A	N/A
16	Waubensee Creek, Oswego	2	8.40	8.40	0.00	8.40	8.40	8.40	8.40	N/A	N/A
17	Blackberry Creek near Bristol	3	8.70	8.70	0.00	8.70	8.70	8.70	8.70	N/A	N/A
18	Big Rock Creek near Sugar Grove	3	10.00	10.00	0.00	10.00	10.00	10.00	10.00	N/A	N/A
19	Little Rock Creek near Plano	4	9.10	8.50	1.20	8.50	10.89	8.50	9.70	1.63	1.63
20	Somonauk Creek near Sandwich	3	11.00	11.00	0.00	11.00	11.00	11.00	11.00	N/A	N/A
21	Indian Creek near Harding	3	12.10	12.10	0.00	12.10	12.10	12.10	12.10	N/A	N/A
22	Buck Creek, County Road 1900,	5	7.12	8.00	1.53	4.46	8.00	7.16	8.00	-1.78	1.73
25	Poplar Creek, Route 20	43	10.74	10.22	2.49	7.20	16.24	8.84	13.02	1.25	-0.91
28	Blackberry Creek, Route 47	39	10.75	10.53	3.39	5.16	18.44	7.47	13.33	1.13	-0.74
29	Somonauk Creek, 1 mi N of Sheridan	38	11.92	12.36	2.49	6.33	16.40	10.10	13.71	-0.83	-0.83
94	Little Indian Creek at Suydam Road	2	17.35	17.35	13.24	7.98	26.71	7.98	26.71	N/A	N/A
99	Big Rock Creek at Jerico Road	1	6.86	6.86	0.00	6.86	6.86	6.86	6.86	N/A	N/A
236	Nippersink Creek, Spring Grove	39	10.62	10.16	2.99	5.73	17.72	8.48	12.45	1.88	0.39
268	Tyler Creek, Route 31	21	12.86	13.40	2.32	8.80	16.90	10.80	14.70	-0.12	-0.90

Note: N/A = not applicable.

Table A6.14. Fox River Stations Summary Statistics for pH

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
23	Route 176	58	8.26	8.30	0.35	7.00	8.90	8.10	8.50	-3.53	3.53
24	Algonquin	70	8.30	8.39	0.44	6.66	9.00	8.10	8.58	-4.20	3.81
26	South Elgin	296	8.22	8.20	0.28	7.30	8.98	8.05	8.40	1.03	2.50
27	Montgomery	306	8.40	8.40	0.30	7.51	10.60	8.24	8.56	7.83	31.85
31	Route 71, Ottawa	33	8.33	8.34	0.41	7.25	9.14	8.21	8.58	-1.32	1.32
33	Route 34, Oswego	242	8.52	8.51	0.32	7.59	9.39	8.34	8.73	0.30	0.10
34	Yorkville	76	8.39	8.38	0.23	7.82	9.15	8.24	8.53	1.20	1.32
35	National St., Elgin	20	8.40	8.41	0.20	8.05	8.89	8.25	8.50	0.55	0.38
37	Wedron Blacktop Bridge south of Wedron	2	8.44	8.44	0.34	8.20	8.68	8.20	8.68	N/A	N/A
40	Geneva	25	8.38	8.40	0.34	7.61	8.82	8.20	8.66	-1.54	0.12
184	Johnsburg	24	8.46	8.50	0.21	8.00	8.80	8.35	8.60	-1.23	-0.18
197	Route 173, Wisconsin-Illinois border	41	8.08	8.11	0.31	7.53	8.74	7.86	8.29	-0.16	-0.88
240	I-90 Bridge N of Elgin	81	8.17	8.20	0.29	7.40	8.88	8.00	8.36	-0.85	0.22
273	Kimball-Lawrence St., Elgin	27	8.42	8.40	0.24	7.85	8.95	8.30	8.52	0.06	0.67
616	Algonquin Dam at River Mile 82.61	4	8.50	8.50	0.22	8.25	8.76	8.33	8.68	0.08	-0.69

Note: N/A = not applicable.

Table A6.15. Fox River Tributaries Summary Statistics for pH

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
1	Nippersink Creek, Thompson Road by Wonder Lake	44	8.07	8.10	0.28	7.50	8.50	7.80	8.30	-1.00	-1.43
2	North Branch Nippersink Creek near Richmond	2	7.90	7.90	0.00	7.90	7.90	7.90	7.90	N/A	N/A
3	Boone Creek, Bull Valley Road	4	8.05	8.09	0.09	7.92	8.10	8.00	8.10	-1.58	1.53
4	Flint Creek near Fox River Grove	3	7.86	8.00	0.24	7.58	8.00	7.58	8.00	-1.22	N/A
5	Tyler Creek at Randall Road	4	7.99	8.00	0.02	7.97	8.00	7.99	8.00	-1.63	1.63
14	Ferson Creek, Leroy Oaks	5	8.31	8.40	0.13	8.10	8.40	8.26	8.40	-1.23	0.36
15	Mill Creek at Mooseheart	2	8.10	8.10	0.00	8.10	8.10	8.10	8.10	N/A	N/A
16	Waubensee Creek, Oswego	2	7.80	7.80	0.00	7.80	7.80	7.80	7.80	N/A	N/A
17	Blackberry Creek near Bristol	3	8.00	8.00	0.00	8.00	8.00	8.00	8.00	N/A	N/A
18	Big Rock Creek near Sugar Grove	3	8.60	8.60	0.00	8.60	8.60	8.60	8.60	N/A	N/A
19	Little Rock Creek near Plano	4	7.97	7.90	0.14	7.90	8.18	7.90	8.04	1.63	1.63
20	Somonauk Creek near Sandwich	3	8.20	8.20	0.00	8.20	8.20	8.20	8.20	N/A	N/A
21	Indian Creek near Harding	3	8.10	8.10	0.00	8.10	8.10	8.10	8.10	N/A	N/A
22	Buck Creek, County Road 1900	5	7.90	7.90	0.19	7.63	8.16	7.90	7.90	-0.07	0.91
25	Poplar Creek, Route 20	41	7.87	7.89	0.28	7.11	8.29	7.71	8.07	-1.98	0.71
28	Blackberry Creek, Route 47	40	7.99	7.97	0.31	6.76	8.51	7.86	8.19	-3.86	6.80
29	Somonauk Creek, 1 mi N of Sheridan	38	8.12	8.14	0.25	7.31	8.64	8.04	8.26	-2.55	3.04
94	Little Indian Creek at Suydam Road	2	8.15	8.15	0.04	8.12	8.17	8.12	8.17	N/A	N/A
99	Big Rock Creek at Jerico Road	1	8.10	8.10	0.00	8.10	8.10	8.10	8.10	N/A	N/A
236	Nippersink Creek, Spring Grove	39	8.11	8.12	0.25	7.30	8.71	7.93	8.26	-1.51	2.38
268	Tyler Creek, Route 31	20	8.27	8.25	0.32	7.84	9.02	8.03	8.42	2.04	1.28
615	Poplar Creek, Raymond St.	20	7.85	7.90	0.28	7.23	8.36	7.66	8.00	-0.53	0.37

Note: N/A = not applicable.

Table A6.16. Fox River Stations Summary Statistics for Suspended Solids

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
23	Route 176	70	35.16	31.50	23.20	3.00	122.00	19.00	47.00	4.74	4.60
24	Algonquin	72	36.57	28.50	31.94	6.00	194.00	16.50	45.00	10.35	19.42
26	South Elgin	216	35.02	31.00	29.46	0.00	224.00	17.00	42.00	16.49	37.29
27	Montgomery	79	45.11	37.00	41.51	3.00	234.00	22.00	53.00	9.09	13.70
31	Route 71, Ottawa	30	62.63	56.00	43.99	11.00	202.00	29.00	75.00	3.07	2.59
33	Route 34, Oswego	22	39.95	44.00	23.24	4.00	86.00	24.00	54.00	0.35	-0.59
34	Yorkville	26	30.65	27.00	24.08	6.00	118.00	14.00	38.00	4.44	6.42
35	National St., Elgin	23	38.78	37.00	29.18	0.00	100.00	9.00	55.00	0.86	-0.55
37	Wedron Blacktop Bridge south of Wedron	2	85.50	85.50	12.02	77.00	94.00	77.00	94.00	N/A	N/A
40	Geneva	22	39.86	35.00	30.22	3.00	141.00	19.00	49.00	3.67	5.00
184	Johnsburg	23	25.57	22.00	16.26	3.00	71.00	11.00	37.00	1.81	1.16
197	Route 173, Wisconsin-Illinois border	38	49.08	49.00	27.25	8.00	122.00	28.00	61.00	1.70	0.51
240	I-90 Bridge N of Elgin	124	42.70	40.00	22.59	0.00	107.00	26.00	57.00	2.03	0.22
273	Kimball-Lawrence St., Elgin	23	45.96	41.00	38.07	1.00	168.00	19.00	59.00	2.98	3.57

Note: N/A = not applicable.

Table A6.17. Fox River Tributaries Summary Statistics for Suspended Solids

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
3	Boone Creek, Bull Valley Road	2	24.50	24.50	26.16	6.00	43.00	6.00	43.00	N/A	N/A
4	Flint Creek near Fox River Grove	1	56.00	56.00	0.00	56.00	56.00	56.00	56.00	N/A	N/A
5	Tyler Creek at Randall Road	1	60.00	60.00	0.00	60.00	60.00	60.00	60.00	N/A	N/A
14	Ferson Creek, Leroy Oaks	2	15.50	15.50	13.44	6.00	25.00	6.00	25.00	N/A	N/A
19	Little Rock Creek near Plano	1	8.00	8.00	0.00	8.00	8.00	8.00	8.00	N/A	N/A
22	Buck Creek, County Road 1900	2	14.50	14.50	3.54	12.00	17.00	12.00	17.00	N/A	N/A
25	Poplar Creek, Route 20	33	29.94	20.00	38.98	1.00	222.00	15.00	27.00	9.41	22.41
28	Blackberry Creek, Route 47	37	57.49	32.00	69.98	5.00	328.00	18.00	64.00	6.41	8.86
29	Somonauk Creek, 1 mi N of Sheridan	35	44.69	23.00	70.30	4.00	328.00	13.00	39.00	7.95	13.20
94	Little Indian Creek at Suyndam Road	2	13.50	13.50	0.71	13.00	14.00	13.00	14.00	N/A	N/A
99	Big Rock Creek at Jerico Road	1	32.00	32.00	0.00	32.00	32.00	32.00	32.00	N/A	N/A
236	Nippersink Creek, Spring Grove	33	36.00	26.00	24.48	10.00	110.00	18.00	54.00	2.92	1.34
268	Tyler Creek, Route 31,	23	36.43	15.00	52.57	0.00	201.00	2.00	46.00	4.00	3.74
615	Poplar Creek, Raymond St.	23	22.13	13.00	27.88	0.00	109.00	7.00	23.00	4.77	5.46

Note: N/A = not applicable.

Table A6.18. Fox River Stations Summary Statistics for Fecal Coliforms

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
23	Route 176	29	113	19	290	1	1160	10	50	8	12
24	Algonquin	34	192	22	686	6	4000	13	83	13	37
26	South Elgin	169	N/A	270	N/A	0	TNTC	100	660	35	163
27	Montgomery	31	N/A	176	N/A	25	TNTC	75	980	13	35
31	Route 71, Ottawa	13	285	81	430	6	1517	63	310	3	4
34	Yorkville	21	500	110	982	6	4000	50	290	5	8
35	National St., Elgin	22	513	400	589	20	2720	140	580	5	9
40	Geneva	17	284	160	465	15	2000	77	272	6	11
184	Johnsburg	18	15	5	24	1	100	2	17	5	9
197	Route 173, Wisconsin-Illinois border	12	196	146	149	31	540	78	279	2	1
240	I-90 Bridge N of Elgin	111	355	180	459	0	2960	60	440	11	21
273	Kimball-Lawrence St., Elgin	22	325	240	283	0	1000	80	600	1	0

Notes: TNTC = too numerous to count. N/A = not applicable.

Table A6.19. Fox River Tributaries Summary Statistics for Fecal Coliforms

<i>Station</i>	<i>Location</i>	<i>Count</i>	<i>Average</i>	<i>Median</i>	<i>Standard deviation</i>	<i>Minimum</i>	<i>Maximum</i>	<i>Lower quartile</i>	<i>Upper quartile</i>	<i>Standard skewness</i>	<i>Standard kurtosis</i>
25	Poplar Creek, Route 20	14	N/A	393	N/A	33	TNTC	69	710	6	10
28	Blackberry Creek, Route 47	13	1105	565	2041	10	7636	93	810	5	8
29	Somonauk Creek, 1 mi N of Sheridan	13	626	210	1121	16	3800	56	377	4	4
236	Nippersink Creek, Spring Grove	15	688	219	1457	38	5900	167	520	6	11
268	Tyler Creek, Route 31	23	325	220	359	0	1340	60	500	3	3
615	Poplar Creek, Raymond St.	22	634	290	728	20	2340	120	800	3	1

Note: TNTC = too numerous to count.

