



Figure 9.--Location of streambed sediment and biological tissue sampling sites in the Upper Mississippi River Basin study unit.

This figure taken from: Stark, J.R., Fallon, J.D., Fong, A.L., Goldstein, R.M., Hanson, P.E., Kroening, S.E., and Lee, K.E., 1999, Water-quality assessment of part of the Upper Mississippi River Basin, Minnesota and Wisconsin--Design and implementation of water-quality studies, 1995-98: U.S. Geological Survey Water-Resources Investigations Report 99-4135, 85 p.

Table A2. Types of samples collected and analyzed at all stream sites

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Map identifier	Site identifier	Site name	Water								Streambed sediment					Fish Tissue		Biological Communities			Field Measurements				
			Chlorophyll <i>a</i> (B2)	Fecal coliform bacteria	Major ions and inorganic constituents (B3)	Nutrients (B4)	Organic carbon (B5)	Pesticides (B7-B10)	Volatile organic compounds (B6)	Suspended sediment (B11)	Trace elements and other constituents (B12)	Organic carbon (B13)	Organochlorine and PCB compounds (B14)	BNA extractable and SVOCs (B15)	Streambed sediment size (B11)	Trace elements (B16)	Organochlorine and PCB compounds (B17)	Fish	Invertebrates	Algae	Physical and chemical properties (B1)	Continuous streamflow monitoring	Continuous water temperature monitoring (B1)	Continuous specific conductance (B1)	Habitat surveys
1	05200020	Mississippi River at Hwy 200 near Lake Itasca, Minn.	x	--	x	x	x	x	--	x	--	--	--	--	--	--	--	x	x	--	x	--	--	--	x
2	05200510	Mississippi River near Bemidji, Minn.	x	--	x	x	x	x	--	x	--	--	--	--	--	--	--	--	--	--	x	--	--	--	--
3	05200940	Mississippi River near Pennington, Minn.	x	--	x	x	x	x	--	x	--	--	--	--	--	--	--	x	x	--	x	--	--	--	x
4	05201550	Mississippi River at Hwy 2 near Ball Club, Minn.	x	--	x	x	x	x	--	x	--	--	--	--	--	--	--	--	--	--	x	--	--	--	--
5	05210000	Mississippi River at Days High Landing near Deer River, Minn.	x	--	x	x	x	x	--	x	--	--	--	--	--	--	--	--	--	--	x	--	--	--	--
6	05211000	Mississippi River at Grand Rapids, Minn.	x	--	x	x	x	x	--	x	x	x	x	x	x	x	x	x	x	--	x	--	--	--	x
7	05213500	Mississippi River near Blackberry, Minn.	x	--	x	x	x	x	--	x	--	--	--	--	--	--	--	x	x	--	x	--	--	--	x
8	05217600	Mississippi River at Jacobson, Minn.	x	--	x	x	x	x	--	x	--	--	--	--	--	--	--	--	--	--	x	--	--	--	--
9	05220600	Mississippi River at Palisade, Minn.	x	--	x	x	x	x	--	x	--	--	--	--	--	--	--	x	x	--	x	--	--	--	x
10	05221060	Mississippi River at Hwy 169 near Hassman, Minn.	x	--	x	x	x	x	--	x	--	--	--	--	--	--	--	--	--	--	x	--	--	--	--
11	05227500	Mississippi River at Aitkin, Minn.	x	--	x	x	x	x	--	x	--	--	--	--	--	--	--	x	x	--	x	--	--	--	x
12	05242300	Mississippi River at Brainerd, Minn.	x	--	x	x	x	x	--	x	--	--	--	--	--	--	--	x	x	--	x	--	--	--	x
13	05261000	Mississippi River near Fort Ripley, Minn.	x	--	x	x	x	x	--	x	--	--	--	--	--	--	--	x	x	--	x	--	--	--	x
14	05263500	Mississippi River below Little Falls, Minn.	x	--	x	x	x	x	--	x	x	x	x	x	x	x	x	--	--	--	x	--	--	--	--
15	05267000	Mississippi River near Royalton, Minn.	X	--	X	X	X	x	--	X	--	--	--	--	--	--	--	X	X	X	X	X	X	--	x
16	05268000	Platte River at Royalton, Minn.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	--	x	--	--	--	--

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17	05270380	Sauk River at Richmond, Minn.	-	-	-	-	-	-	-	x	x	x	x	x	x	x	-	-	-	x	-	-	-	-	
18	05270500	Sauk River near St. Cloud, Minn.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--	
19	05270700	Mississippi River at St. Cloud, Minn.	x	-	x	x	x	x	-	x	-	-	-	-	-	-	-	x	x	-	x	-	-	-	x
20	05275000	Elk River near Big Lake, Minn.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--	
21	05276005	North Fork Crow River above Paynesville, Minn.	X	--	X	X	X	x	--	X	x	x	x	x	x	x	X	X	X	X	X	X	X	x	
22	05278400	North Fork Crow River near Rockford, Minn.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--	
23	05278590	South Fork Crow River at Biscay, Minn.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--	
24	05278930	Buffalo Creek near Glencoe, Minn.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--	
25	05280000	Crow River at Rockford, Minn.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--	
26	05280400	Crow River below State Highway 101 at Dayton, Minn.	--	--	--	--	--	--	--	--	x	x	x	x	x	x	x	x	--	x	--	--	--	--	
27	05283500	Mississippi River at Anoka, Minn.	x	--	x	x	x	x	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	x	
28	05286000	Rum River near St. Francis, Minn.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--	
29	05286290	Cedar Creek near Coopers Corner, Minn.	X	--	X	X	X	x	--	X	x	x	x	x	x	x	x	x	X	X	X	X	x		
30	05286798	Ford Brook at Green Valley Road in Ramsey, Minn.	x	x	x	x	x	x	--	x	--	--	--	--	--	--	--	--	x	x	x	x	--	x	
31	05287000	Rum River at Anoka, Minn.	--	--	--	--	--	--	--	--	x	x	x	x	x	x	x	--	--	--	x	--	--	--	
32	05287890	Elm Creek near Champlin, Minn.	x	x	x	x	x	x	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	x	
33	05288500	Mississippi River near Anoka, Minn.	X	--	X	X	X	x	--	X	x	x	x	x	x	x	x	x	X	X	X	X	x		
34	05288475	Coon Creek at 131st Street in Coon Rapids, Minn.	x	x	x	x	x	x	--	x	--	--	--	--	--	--	--	--	x	x	x	--	--	x	

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35	05288487	Sand Creek at Xeon Street in Coon Rapids, Minn.	x	x	x	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
36	05288598	Rice Creek at Central Ave. in Fridley, Minn.	x	x	x	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
37	05288695	Shingle Creek at Zane Ave. at Brooklyn Park, Minn.	--	--	--	--	--	--	--	--	x	x	x	x	x	x	x	--	--	--	x	--	--	--	--
38	05288700	Shingle Creek at Brooklyn Center, Minn.	--	--	x	x	x	--	--	x	--	--	--	--	--	--	--	--	--	--	x	--	--	--	--
39	450401-093183401	Parking Lot Outflow at Public Library at Brooklyn Center, Minn.	--	--	--	--	x	--	x	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
40	05288705	Shingle Creek at Queen Ave in Minneapolis, Minn.	X	x	X	X	X	X	X	X	x	x	x	x	x	x	x	X	X	X	X	X	X	X	x
41	05288710	Shingle Creek at 46th Street in Minneapolis, Minn.	--	--	--	--	--	--	--	--	x	x	x	x	x	x	x	--	--	--	x	--	--	--	--
42	05288730	Mississippi River at 28th Ave. in Minneapolis, Minn.	--	--	--	--	--	--	--	--	x	x	x	x	x	x	x	--	--	--	x	--	--	--	--
43	05288839	Bassett Creek at Dresden Lane in Golden Valley, Minn.	x	x	x	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
44	05289600	Minnehaha Creek at Nicollet Ave. in Minneapolis, Minn.	x	x	x	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
45	05303900	Shakopee Creek near Louriston, Minn.	x	x	x	x	x	x	--	x	--	--	--	--	--	--	--	--	x	x	x	--	--	--	x
46	05304795	Dry Weather Creek near Watson, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
47	05312000	Spring Creek near Spring Creek, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
48	05314500	Hawk Creek near Maynard, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
49	05314510	Chetomba Creek near Renville, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
50	05316985	Sleepy Eye Creek near Springfield, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
51	05317170	Little Cottonwood River near Searles, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
52	05317800	West Branch Blue Earth River above Elmore, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x

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53	05317828	Coon Creek at U.S. Hwy. 169 near Blue Earth, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
54	05318050	East Branch Blue Earth River below Bricelyn, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	--	x	x	x	--	--	--	x
55	05318138	South Creek near Huntley, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
56	05318178	Center Creek at Huntley, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
57	05318240	Elm Creek near Northrop, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
58	05318630	Watonwan River near St. James, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
59	05318800	St. James Creek near La Salle, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	--	x	x	x	--	--	--	x
60	05319050	South Fork Watonwan River near St. James, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
61	05319360	Perch Creek below Vernon Center, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
62	05320080	Le Sueur River near Wilton, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
63	05320230	Cobb River near Mapleton, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
64	05320270	Little Cobb River near Beauford, Minn.	X	--	X	X	X	X	--	X	x	x	x	x	x	x	x	X	X	X	X	X	X	X	x
65	05320450	Maple River near Sterling Center, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	--	x	x	x	--	--	--	x
66	05326150	Rush River near New Rome, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
67	05326250	South Branch Rush River near Rush River, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
68	05326700	High Island Creek near Arlington, Minn.	x	--	--	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
69	05330000	Minnesota River near Jordan, Minn.	X	--	X	X	X	X	x	X	x	x	x	x	x	x	x	X	X	X	X	X	X	X	x
70	05330702	Minnesota River tributary at Beech St. in Chaska, Minn.	x	x	x	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x

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71	05330750	Riley Creek at Eden Prairie, Minn.	x	x	x	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
72	05330801	Purgatory Creek at Pioneer Tr. in Eden Prairie, Minn.	x	x	x	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
73	05330902	Nine Mile Creek near James Circle at Bloomington, Minn.	X	x	X	X	X	X	X	X	x	x	x	x	x	x	x	X	X	X	X	X	X	X	x
74	05331045	Battle Creek at Meadow Lane in Woodbury, Minn.	--	x	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
75	05331050	Battle Creek below McKnight Road in St. Paul, Minn.	x	x	x	x	x	x	--	x	--	--	--	--	--	--	--	x	x	x	x	--	--	--	x
76	05331570	Mississippi River at Nininger, Minn.	--	--	--	--	--	--	--	--	x	x	x	x	x	x	x	--	--	--	x	--	--	--	--
77	05331580	Mississippi River below Lock & Dam #2 at Hastings, Minn.	X	--	X	X	X	X	x	X	--	--	--	--	--	--	--	X	X	X	X	X	X	X	x
78	05331775	St. Croix River near Woodland Corner, Wis.	--	--	x	x	--	--	--	x	--	--	--	--	--	--	--	--	--	--	x	--	--	--	--
79	05331833	Namekagon River at Leonards, Wis.	X	--	X	X	X	x	--	X	x	x	x	x	x	x	x	X	X	X	X	X	X	X	x
80	05331873	Namekagon River above Spring Lake Creek near Hayward, Wis.	--	--	--	--	--	--	--	--	x	x	x	x	x	x	x	--	--	--	x	--	--	--	--
81	05333400	Namekagon River near Woodland Corner, Wis.	--	--	x	x	--	--	--	x	--	--	--	--	--	--	--	--	--	--	x	--	--	--	--
82	05333500	St. Croix River near Danbury, Wis.	X	--	X	X	X	x	--	X	x	x	x	x	x	x	x	X	X	X	X	X	X	X	x
83	053350006	Yellow River near Danbury, Wis.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	--	x	--	--	--	--
84	05335170	Crooked Creek near Hinckley, Minn.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	--	x	--	--	--	--
85	05335326	Clam River near Siren, Wis.	--	--	x	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	x	--	--	--	--
86	05335500	Clam River near Webster, Wis.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	--	x	--	--	--	--
87	05336180	Kettle River near Kettle River, Minn.	--	--	--	--	--	--	--	--	x	x	x	x	x	x	x	--	--	--	x	--	--	--	--

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88	05336700	Kettle River below Sandstone, Minn.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--
89	460041-092502001	Kettle River near Hinckley, Minn	--	--	x	--	--	--	--	--	--	--	--	--	--	--	--	--	--	x	--	--	--	--
90	05338500	Snake River near Pine City, Minn.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--
91	05338975	Wood River at State Highway 70 near Grantsburg, Wis.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--
92	05339770	St. Croix River near Sunrise, Minn.	--	--	--	--	--	--	--	--	x	x	x	x	x	x	x	--	--	x	--	--	--	--
93	453049-092512101	Sunrise River at Sunrise, Minn.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--
94	05340370	Trade River near Trade River, Wis.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--
95	05340500	St. Croix River at St. Croix Falls, Wis.	X	--	X	X	X	X	--	X	--	--	--	--	--	--	--	X	X	X	X	X	X	x
96	053405524	St. Croix River tributary near Osceola, Wis.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--
97	05341125	Apple River near Range, Wis.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--
98	05341500	Apple River near Somerset, Wis.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--
99	05341540	Browns Creek at Stillwater, Minn.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--
100	05341552	St. Croix River at Hudson, Wis.	--	--	--	--	--	--	--	--	x	x	x	x	x	x	x	--	--	x	--	--	--	--
101	05341740	Willow River at Burkhardt, Wis.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--
102	05342000	Kinnickinnic River near River Falls, Wis.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--
103	05344490	St. Croix River at Prescott, Wis.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	x	--	--	--	--
104	05345000	Vermillion River near Empire, Minn.	--	--	--	x	--	--	--	x	x	x	x	x	x	x	x	--	--	x	--	--	--	--

Table A2. Types of samples collected and analyzed at all stream sites--Continued

[X, sampled or analyzed routinely; x, sampled or analyzed once or occasionally; --, not sampled or analyzed; PCB, polychlorinated biphenyl; BNA, base-neutral-acid extractable; SVOC, semivolatile organic compound; codes in parentheses of column headings refer to tables describing methods in Appendix B]

Map identifier	Site identifier	Site name	Water							Streambed sediment					Fish Tissue		Biological Communities			Field Measurements					
			Chlorophyll <i>a</i> (B2)	Fecal coliform bacteria	Major ions and inorganic constituents (B3)	Nutrients (B4)	Organic carbon (B5)	Pesticides (B7-B10)	Volatile organic compounds (B6)	Suspended sediment (B11)	Trace elements and other constituents (B12)	Organic carbon (B13)	Organochlorine and PCB compounds (B14)	BNA extractable and SVOCs (B15)	Streambed sediment size (B11)	Trace elements (B16)	Organochlorine and PCB compounds (B17)	Fish	Invertebrates	Algae	Physical and chemical properties (B1)	Continuous streamflow monitoring	Continuous water temperature monitoring (B1)	Continuous specific conductance (B1)	Habitat surveys
105	05353800	Straight River near Faribault, Minn.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	--	x	--	--	--	--
106	05355090	Cannon River at Lake Byllesby near Cannon Falls, Minn.	--	--	--	--	--	--	--	--	x	x	x	x	x	x	x	--	--	--	x	--	--	--	--
107	05355200	Cannon River at Welch, Minn.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
108	05355250	Mississippi River at Red Wing, Minn.	X	--	X	X	X	x	x	X	--	--	--	--	--	--	--	X	X	X	X	X	X	X	x
109	05355330	Rush River near Maiden Rock, Wis.	--	--	--	x	--	--	--	x	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
110	443334-092205201	Mississippi River in Lake Pepin near Frontenac, Minn.	--	--	--	--	--	--	--	--	x	x	x	x	x	--	--	--	--	--	x	--	--	--	--
111	442912-092174201	Mississippi River in Lake Pepin near Central Point, Minn.	--	--	--	--	--	--	--	--	x	x	x	x	x	x	x	--	--	--	x	--	--	--	--
112	442633-092130801	Mississippi River in Lake Pepin near Lake City, Minn.	--	--	--	--	--	--	--	--	x	x	x	x	x	--	--	--	--	--	x	--	--	--	--