

## APPENDICES

### **Appendix A – Period of mean daily data and number of instantaneous peak discharge data**

i. The Northern Rockies, Ecoregion 15	130
ii. The Middle Rockies, Ecoregion 17	131
iii. The Northwest Glaciated Plains, Ecoregion 42	132
iv. The Northwestern Great Plains, Ecoregion 43	133
v. The Northern Glaciated Plains, Ecoregion 46	137
vi. The Lake Agassiz Plain, Ecoregion 48	138

### **Appendix B – Location of USGS gages with suspended-sediment data and transport rating relations**

i. The Northern Rockies, Ecoregion 15	139
ii. The Middle Rockies, Ecoregion 17	140
iii. The Northwest Glaciated Plains, Ecoregion 42	142
iv. The Northwestern Great Plains, Ecoregion 43	144
v. The Northern Glaciated Plains, Ecoregion 46	147
vi. The Lake Agassiz Plain, Ecoregion 48	149

### **Appendix C – Rapid Geomorphic Assessment data**

i. The Northern Rockies, Ecoregion 15	159
ii. The Middle Rockies, Ecoregion 17	160
iii. The Northwest Glaciated Plains, Ecoregion 42	161
iv. The Northwestern Great Plains, Ecoregion 43	162
v. The Northern Glaciated Plains, Ecoregion 46	166
vi. The Lake Agassiz Plain, Ecoregion 48	167

### **Appendix D – Site Data and General Collection Information for USGS Gage Stations with Fish Data (separate file)**

### **Appendix E – USGS Gage stations: Site Suspended-Sediment Concentration, Frequency, and Duration Data and Dosage (separate file)**

### **Appendix F – Fish Functional Traits by Species: Binary Mix (separate file)**

### **Appendix G – Occurrence of Fish Functional Traits by Site (separate file)**

**Appendix A-i – Period of mean daily data and number of instantaneous peak flow data for the Northern Rockies (Ecoregion 15).**

State	Gage number	Gage identification	Number of peak flow data	Mean Daily data	Complete years of data
ID	12318500	Kootenai River near Copeland	64	1929-1992	62
ID	12322000	Kootenai River at Porthill	79	1928-2006	78
MT	12363000	Flathead River at Columbia Falls	82	1922-2008	79
MT	12375800	Little Bitterroot River Near Perma	-	-	-
MT	12376900	Crow Creek at Mouth near Ronan	-	-	-
MT	12379600	Mission Creek at National Bison Range at Moiese	-	-	-
MT	12388200	Jocko River at Dixon	17	1990-2006	15
MT	12388700	Flathead River at Perma	23	1983-2008	22
ID	12391950	Clark Fork River below Cabinet Gorge Dam	11	1985-2006	10
ID	12392000	Clark Fork at Whitehorse Rapids near Cabinet	79	1928-2006	77
ID	12392660	Sand Creek near Sandpoint	5	1988-1993	2
WA	12398600	Pend Oreille River at International Boundary	43	1962-2007	43
WA	12400520	Columbia River at Northport	-	-	-
ID	12413000	Nf Coeur D Alene River at Enaville	70	1911-2008	67
ID	12413470	Sf Coeur D Alene River near Pinehurst	19	1987-2008	20
ID	12413500	Coeur D Alene River near Cataldo	75	1911-2008	73
ID	12416000	Hayden Creek below North Fork near Hayden Lake	43	1948-1997	35
ID	12419000	Spokane River near Post Falls	94	1913-2008	95
ID	13340600	Nf Clearwater River near Canyon Ranger Station	40	1967-2008	38

**Appendix A-ii – Period of mean daily data and number of instantaneous peak discharge data for the Middle Rockies (Ecoregion 17).**

State	Gage number	Gage identification	Number of peaks	Mean Daily data	Complete years of data
MT	06037500	Madison River near West Yellowstone	79	1913-2008	75
MT	06038500	Madison River below Hebgen Lake near Grayling	79	1938-2008	69
MT	06041000	Madison River below Ennis Lake near McAllister	63	1938-2008	69
MT	06054500	Missouri River at Toston	73	1910-2008	72
MT	06154410	Little Peoples Creek near Hays	33	1972-2008	35
WY	06188000	Lamar River near Tower Ranger Station	65	1923-2008	63
MT	06191500	Yellowstone River at Corwin Springs	98	1910-2008	97
MT	06192500	Yellowstone River near Livingston	80	1900-2008	78
WY	06220500	East Fork Wind River near Dubois	29	1950-1997	25
WY	06279790	Jones Creek at Mouth, near Pahaska	5	-	-
WY	06279795	Crow Creek at Mouth, at Pahaska	9	-	-
WY	06280300	South Fork Shoshone River near Valley	47	1956-2008	46
SD	06409000	Castle Creek above Deerfield Res near Hill City	57	1948-2008	58
SD	06436180	Whitewood Creek above Whitewood	23	1982-2008	24
WY	09188500	Green River at Warren Bridge, near Daniel	72	1931-2008	73
WY	09196500	Pine Creek above Fremont Lake	47	1954-2008	48
WY	09203000	East Fork River near Big Sandy	54	1938-1992	53
WY	09208000	La Barge Creek near La Barge Meadows Ranger Station	33	1950-1981	30
WY	09212500	Big Sandy R at Leckie Ranch, near Big Sandy	49	1939-1987	31
WY	09223000	Hams Fork Below Pole Creek, near Frontier	52	1952-2008	54
MT	12323230	Blacktail Creek at Harrison Avenue at Butte	-	-	-
MT	12323250	Silver Bow Creek below Blacktail Crreek at Butte	21	1983-2008	23
MT	12323600	Silver Bow Creek at Opportunity	16	1988-2008	15
MT	12323750	Silver Bow Creek at Warm Springs	21	1972-2008	20
MT	12323770	Warm Springs Creek at Warm Springs	21	1983-2008	23
MT	12323800	Clark Fork near Galen	16	1988-2008	18
MT	12324200	Clark Fork at Deer Lodge	26	1978-2008	29
MT	12324590	Little Blackfoot River near Garrison	32	1972-2008	33
MT	12324680	Clark Fork at Goldcreek	27	1977-2008	29
MT	12331500	Flint Creek near Drummond	14	1990-2008	12
MT	12331800	Clark Fork near Drummond	12	1993-2008	14
MT	12334510	Rock Creek near Clinton	33	1972-2008	34
MT	12334550	Clark Fork at Turah Bridge near Bonner	19	1984-2008	23
MT	12335500	Nevada Creek above reservoir, near Helmville	65	1939-2008	66
MT	12340000	Blackfoot River near Bonner	71	1900-2008	69
MT	12340500	Clark Fork above Missoula	76	1929-2008	78
MT	12353000	Clark Fork below Missoula	75	1929-2008	77
WY	13010065	Snake River above Jackson Lake at Flagg Ranch	65	1983-2008	23
WY	13011500	Pacific Creek at Moran	60	1917-2008	58
WY	13013650	Snake River at Moose	10	1995-2008	12
WY	13018300	Cache Creek near Jackson	59	1962-2008	44
WY	13019430	Granite Creek near Bondurant	-	-	-
WY	13019438	Little Granite Creek at Mouth near Bondurant	11	1981-1992	10
WY	13022500	Snake River above Reservoir near Alpine	55	1937-2008	53
WY	13027500	Salt River above Reservoir near Etna	53	1953-2008	53
ID	13120500	Big Lost River at Howell Ranch near Chilly	97	1904-2008	59
MT	464810112490001	Nevada Creek below Reservoir near Helmville	-	-	-

**Appendix A-iii – Period of mean daily data and number of instantaneous peak discharge data for the Northwest Glaciated Plains (Ecoregion 42).**

State	Gage number	Gage identification	Number of peaks	Mean Daily data	Complete years of data
MT	06073500	Dearborn River near Craig	38	1945-2008	36
MT	06085800	Sun River at Simms	25	1945-2008	18
MT	06088300	Muddy Creek near Vaughn	31	1968-2007	25
MT	06088500	Muddy Creek at Vaughn	70	1925-2008	68
MT	06089000	Sun River near Vaughn	73	1934-2008	72
MT	06090300	Missouri River near Great Falls	55	1953-2008	-
MT	06090610	Belt Creek near Portage	3	1980-1983	2
MT	06090720	Highwood Creek near Portage	3	1980-1983	2
MT	06090800	Missouri River at Fort Benton	115	1890-2008	116
MT	06101500	Marias River near Chester	53	1921-2008	53
MT	06102500	Teton River below South Fork near Choteau	17	1947-2008	6
MT	06108000	Teton River near Dutton	52	1954-2008	52
MT	06108800	Teton River at Loma	9	1998-2008	6
MT	06109500	Missouri River at Virgelle	72	1935-2008	10
MT	06132000	Missouri River below Fort Peck Dam	73	1934-2007	69
MT	06137570	Boxelder Creek near Rocky Boy	22	1975-1997	21
MT	06139500	Big Sandy Creek near Havre	45	1946-2008	6
MT	06154430	Lodge Pole Creek at Lodge Pole	14	1987-200	12
MT	06154550	Peoples Creek below Kuhr Coulee near Dodson	18	1918-2008	46
MT	06169500	Rock Creek below Horse Creek near Int Bndry	60	1916-2008	28
MT	06174500	Milk River at Nashua	67	1939-2006	66
MT	06175540	Prairie Elk Creek near Oswego	10	1975-1985	9
MT	06177650	Redwater River near Richey	2	1982-1985	2
MT	06177825	Redwater River near Vida	10	1945-2008	36
MT	06178000	Poplar River at International Boundary	75	1931-2008	1
MT	06178150	Poplar River near Scobey	-	-	-
MT	06178500	East Poplar River at International Bndry	73	1931-2008	33
MT	06179000	East Fork Poplar River near Scobey	5	1935-1980	3
MT	06179200	Poplar River ab West Fork near Bredette	-	-	-
MT	06179500	West Fork Poplar River at International	20	1931-1952	1
MT	06180400	West Fork Poplar River near Bredette	-	-	-
MT	06181000	Poplar River near Poplar	56	1908-2008	63
MT	06183450	Big Muddy Creek near Antelope	28	1978-2008	26
MT	06329540	Lone Tree Creek near Sidney	-	-	-
ND	06340930	Buffalo Creek near Washburn	5	1978-1983	4
SD	06453000	Missouri River at Fort Randall Dam	40	1947-1986	38
SD	06453200	Choteau Creek near Wagner	-	-	-
SD	06453252	Choteau Creek near Dante	-	-	-
SD	06453300	Choteau Creek Below Avon	-	-	-
NE	06453500	Ponca Creek at Anoka	46	1949-1994	-
NE	06465500	Niobrara River near Verdell	47	1938-2008	48

**Appendix A-iv – Period of mean daily data and number of instantaneous peak discharge data for the Northwestern Great Plains (Ecoregion 43).**

State	Gage number	Gage identification	Number of peaks	Mean Daily data	Complete years of data
MT	06075700	Nf Smith River near Mouth near White Sulphur Springs	-	-	-
MT	06075800	Sf Smith River at Mouth near White Sulphur Springs	-	-	-
MT	06075900	Big Birch Creek at Mouth near White Sulphur Springs	-	-	-
MT	06076550	Newlan Creek at Mouth near White Sulphur Springs	-	-	-
MT	06076600	Camas Creek at Mouth near White Sulphur Springs	-	-	-
MT	06076650	Benton Gulch at Mouth near White Sulphur Sps	-	-	-
MT	06076690	Smith River near Ft Logan	18	1977-2008	18
MT	06077090	Sheep Creek near Mouth near White Sulphur Springs	-	-	-
MT	06115200	Missouri River near Landusky	71	1934-2007	72
MT	06120500	Musselshell River at Harlowton	97	1907-2007	93
MT	06126470	Halfbreed Creek near Klein	14	1977-1991	11
MT	06126500	Musselshell River near Roundup	59	1946-2007	60
MT	06127160	West Parrot Creek near Roundup	-	-	-
MT	06127300	Fattig Creek near Delphia	-	-	-
MT	06127500	Musselshell River at Musselshell	60	1928-2007	33
MT	06130500	Musselshell River at Mosby	74	1929-2007	72
MT	06131120	Timber Creek near Van Norman	5	1982-1989	2
MT	06131200	Nelson Creek near Van Norman	18	1975-1985	13
MT	06177500	Redwater River at Circle	73	1929-2004	65
MT	06177520	Horse Creek near Circle	-	-	-
MT	06185150	Hardscrabble Creek near Culbertson	-	-	-
MT	06185500	Missouri River near Culbertson	56	1941-2007	57
MT	06195600	Shields River near Livingston	27	1978-2007	27
MT	06197500	Boulder River near Contact	34	1910-1983	23
MT	06200000	Boulder River at Big Timber	58	1947-2007	56
MT	06202530	Stillwater River above West Fork at Nye	-	-	-
MT	06202598	West Fk Stillwater River below Castle Creek near Nye	-	-	-
MT	06204220	Butcher Creek near Luther	-	-	-
MT	06204240	Butcher Creek near Roscoe	-	-	-
MT	06204260	Butcher Creek near Fishtail	-	-	-
MT	06205000	Stillwater River near Absarokee	75	1910-2007	64
MT	06205200	Yellowstone River at Laurel	-	-	-
MT	06207700	North Fork Bluewater Creek Bridger	-	-	-
MT	06207850	Bluewater Creek at Sanford Ranch near Bridger	66	1968-1970	1
MT	06207870	Bluewater Creek near Fromberg	-	1968-1970	1
MT	06207900	Bluewater Creek at Fromberg	-	1961-1964	2
MT	06208500	Clarks Fork Yellowstone River at Edgar	-	1968-1970	1
MT	06214500	Yellowstone River at Billings	80	1904-2007	78
MT	06217500	Yellowstone River at Huntley	9	1907-1916	3
MT	06288200	Beauvais Creek near St. Xavier	11	1967-1977	9
MT	06289000	Little Bighorn River at State Line near Wyola	67	1939-2007	67
MT	06289500	Little Bighorn River near Wyola	13	1912-1923	0
MT	06290500	Little Bighorn River below Pass Creek near Wyola	64	1939-2004	61
MT	06294000	Little Bighorn River near Hardin	53	1953-2007	53
MT	06294500	Bighorn River above Tullock Creek near Bighorn	23	1945-2007	61
MT	06294700	Bighorn River at Bighorn	37	1945-1981	35
MT	06294840	Yellowstone River at Myers	-	-	-
MT	06294920	East Fork Sarpy Creek near Colstrip	-	-	-
MT	06294940	Sarpy Creek near Hysham	11	1973-1984	10

State	Gage number	Gage identification	Number of peaks	Mean Daily data	Complete years of data
MT	06294980	East Fork Armells Creek near Colstrip	-	-	-
MT	06294995	Armells Creek near Forsyth	18	1975-1995	16
MT	06295000	Yellowstone River at Forsyth	31	1921-2007	29
MT	06295110	Rosebud Creek at Kirby	-	-	-
MT	06295113	Rosebud Creek at Reservation Bndry near Kirby	26	1979-2007	26
MT	06295250	Rosebud Creek near Colstrip	31	1974-2006	31
MT	06295380	Cow Creek near Colstrip	-	-	-
MT	06295400	Rosebud Creek above Pony Creek near Colstrip	-	-	-
MT	06295500	Rosebud Creek near Rosebud	6	1938-1943	4
MT	06296003	Rosebud Creek at Mouth near Rosebud	31	1974-2006	31
MT	06296120	Yellowstone River near Miles City	-	1974-1984	7
WY	06298000	Tongue River near Dayton	76	1918-2007	74
WY	06299980	Tongue River at Monarch	2	2004-2007	2
WY	06305500	Goose Creek belowSheridan	43	1941-1984	42
WY	06305700	Goose Creek near Acme	22	1984-2007	22
MT	06306100	Squirrel Creek near Decker	10	1975-1985	9
WY	06306250	Prairie Dog Creek near Acme	14	1970-2007	13
MT	06306300	Tongue River at State Line near Decker	45	1960-2007	46
MT	06307500	Tongue River at Tongue River Dam near Decker	67	1939-2007	67
MT	06307525	Prairie Dog Creek above Jack Creek near Birney	5	1979-1983	3
MT	06307528	Prairie Dog Creek near Birney	6	1978-1984	5
MT	06307570	Hanging Woman Creek below Horse Creek near Birney	-	-	-
MT	06307600	Hanging Woman Creek near Birney	23	1973-2007	22
MT	06307610	Tongue River below Hanging Woman C. near Birney	-	-	-
MT	06307615	Cook Creek near Birney	-	-	-
MT	06307616	Tongue River at Birney Day School Br near Birney	25	1979-2008	27
MT	06307665	Otter Creek near Otter	-	-	-
MT	06307717	Otter Creek below Fifteenmile Creek near Otter	4	1982-1985	2
MT	06307725	Otter Creek above Tenmile Creek near Ashland	-	-	-
MT	06307735	Home Creek near Ashland	-	-	-
MT	06307740	Otter Creek at Ashland	23	1972-2007	21
MT	06307830	Tongue River below Brandenburg Bridge near Ashland	16	1973-2007	16
MT	06307990	Tongue River above T & Y Div Dam near Miles City	1	2004-2007	2
MT	06308400	Pumpkin Creek near Miles City	14	1972-2007	13
MT	06308500	Tongue River at Miles City	64	1938-2007	63
WY	06309500	Middle Fork Powder River Above Kaycee	31	1949-1992	27
WY	06313000	South Fork Powder River near Kaycee	25	1938-1984	20
WY	06313180	Dugout Creek Tributary near Midwest	19	1974-1983	8
WY	06313400	Salt Creek near Sussex	17	1976-1993	14
WY	06313500	Powder River at Sussex	34	1938-2007	27
WY	06316400	Crazy Woman Creek at Upper Sta, near Arvada	17	1963-2007	15
WY	06317000	Powder River at Arvada	86	1930-2007	74
WY	06320200	Clear Creek below Rock Creek near Buffalo	3	1975-1981	5
WY	06320400	Clear Creek at Ucross	3	1976-1981	4
WY	06324000	Clear Creek near Arvada	51	1915-2007	45
MT	06324500	Powder River at Moorhead	76	1929-2007	74
MT	06324710	Powder River at Broadus	17	1975-1992	5
WY	06324890	Little Powder River belowCorral Creek near Weston	6	1977-1983	5
WY	06324925	Little Powder River near Weston	2	1977-1981	3
WY	06324970	Little Powder River above Dry Creek, near Weston	33	1972-2007	34
MT	06325500	Little Powder River near Broadus	25	1947-1972	18

State	Gage number	Gage identification	Number of peaks	Mean Daily data	Complete years of data
MT	06326050	Mizpah Creek at Olive	-	-	-
MT	06326200	Mizpah Creek near Volborg	-	-	-
MT	06326300	Mizpah Creek near Mizpah	12	1974-1986	11
MT	06326500	Powder River near Locate	68	1938-2007	68
MT	06326530	Yellowstone River near Terry	-	-	-
MT	06326555	Cherry Creek near Terry	7	1979-1994	4
MT	06326600	O'Fallon Creek near Ismay	31	1977-1992	14
MT	06326953	Clear Creek near Hoyt	1	-	-
MT	06326995	Upper Sevenmile Creek near Lindsay	-	-	-
MT	06327850	Glendive Creek near Glendive	-	-	-
MT	06328000	Deer Creek near Glendive	-	1921-1922	-
MT	06329000	Cottonwood Creek near Intake	-	-	-
MT	06329200	Burns Creek near Savage	21	1957-1988	17
MT	06329500	Yellowstone River near Sidney	93	1910-2007	94
ND	06330000	Missouri River near Williston	37	1928-1965	36
ND	06331570	Stony Creek near Williston	4	1977-1981	3
ND	06331850	Beaver Creek near Ray	5	1977-1982	4
ND	06332515	Bear Den Creek near Mandaree	39	1966-2007	40
ND	06335500	Little Missouri River at Marmarth	67	1938-2007	68
ND	06335750	Deep Creek near Amidon	6	1977-1983	4
ND	06336000	Little Missouri River at Medora	54	1903-2007	43
MT	06336500	Beaver Creek at Wibaux	37	1938-1983	34
MT	06336510	Hay Creek No. 2 near Wibaux	-	1978-1982	3
MT	06336515	Hay Creek near Wibaux	-	1978-1982	3
MT	06336545	Little Beaver Creek near Wibaux 15-60-14Bbb	-	1978-1981	2
ND	06336600	Beaver Creek near Trotters	28	1977-2007	5
ND	06337000	Little Missouri River near Watford City	71	1934-2007	72
ND	06338490	Missouri River at Garrison Dam	36	1969-2006	36
ND	06339100	Knife River at Manning	38	1967-2007	39
ND	06339300	Knife River at Marshall	11	1970-1981	10
ND	06339500	Knife River near Golden Valley	63	1903-2007	-
ND	06339550	Coyote Creek near Zap	6	1977-1983	5
ND	06339560	Brush Creek near Beulah	16	1974-1990	16
ND	06339800	Spring Creek below Lake Ilo near Dunn Center	4	1977-1981	3
ND	06339900	Spring Creek near Halliday	4	1977-1981	3
ND	06340000	Spring Creek at Zap	61	1924-2007	61
ND	06340500	Knife River at Hazen	72	1929-2008	72
ND	06340520	Antelope Creek Above Hazen	9	1977-1985	8
ND	06340524	West Branch Antelope Creek No. 5 near Zap	5	1977-1982	4
ND	06340528	West Branch Antelope Creek No. 4 near Zap	10	1976-1986	9
ND	06340536	West Branch Antelope Creek NO. 2 near Beulah	5	1976-1980	3
ND	06340580	Coal Creek near Stanton	4	1977-1981	3
ND	06340780	Alderin Creek near Fort Clark	6	1977-1983	5
ND	06342200	Square Butte Creek above Nelson Lake near Center	5	1977-1982	4
ND	06342230	Hagel Creek near Center	5	1977-1982	4
ND	06342500	Missouri River at Bismarck	77	1927-2007	78
ND	06343000	Heart River near South Heart	54	1946-1984	29
ND	06344600	Green River near New Hradec	42	1964-2008	42
ND	06349000	Heart River near Mandan	75	1924-2008	73
ND	06349900	Cannonball River at New England	3	1978-1981	2
ND	06349930	Coal Bank Creek near Havelock	9	1974-1983	8

State	Gage number	Gage identification	Number of peaks	Mean Daily data	Complete years of data
ND	06350000	Cannonball River at Regent	56	1950-2008	56
ND	06352400	Timber Creek near Bentley	4	1977-1981	3
ND	06354000	Cannonball River at Breien	90	1934-2008	72
ND	06355310	Buffalo Creek Tributary near Gascoyne	13	1974-1987	12
SD	06355500	North Fork Grand River near White Butte	61	1945-2008	62
SD	06356500	South Fork Grand River near Cash	57	1945-2008	52
SD	06357800	Grand River at Little Eagle	48	1958-2008	48
SD	06360500	Moreau River near Whitehorse	52	1954-2008	52
WY	06364700	Antelope Creek near Teckla	3	1977-1981	3
WY	06365300	Dry Fork Cheyenne River near Billo	7	1976-1987	5
WY	06365900	Cheyenne River near Dull Center	10	1976-2007	7
WY	06375600	Little Thunder Creek near Hampshire	15	1977-1997	13
WY	06376300	Black Thunder Creek near Hampshire	18	1972-1990	17
WY	06378300	Lodgepole Creek near Hampshire	3	1977-1981	3
WY	06386000	Lance Creek near Riverview	34	1948-1983	31
WY	06386400	Cheyenne River at Riverview	-	-	-
WY	06386500	Cheyenne River near Spencer	3	1948-2007	29
SD	06400500	Cheyenne River near Hot Springs Sd	36	1914-1972	32
SD	06414700	Rapid Creek at East Main St at Rapid City Sd	3	1980-1982	1
SD	06416000	Rapid Creek belowHawthorn Ditch at Rapid City	16	1980-1982	1
SD	06416300	Meade Street Drain at Rapid City Sd	-	1980	-
WY	06425720	Belle Fourche River below Rattlesnake C, near Piney	9	1975-2007	9
WY	06425780	Belle Fourche River above Dry Creek near Piney	8	1975-1983	7
WY	06425900	Caballo Creek at Mouth, near Piney	6	1977-1983	5
WY	06426100	Stonepile Creek at Gillette	4	1988-1992	3
WY	06426400	Donkey Creek near Moorcroft	3	1977-1981	3
WY	06426500	Belle Fourche River belowMoorcroft	50	1943-2008	50
SD	06436198	Whitewood Creek Above Vale	24	1982-2008	24
SD	06437000	Belle Fourche River near Sturgis	61	1945-2008	61
SD	06438000	Belle Fourche River near Elm Springs	77	1928-2008	72
SD	06440000	Missouri River at Pierre	36	1933-1965	31
SD	06440200	South Fork Bad River near Cottonwood	18	1988-2008	18
SD	06441110	Plum Creek belowHayes, Sd	15	1989-1995	5
SD	06441500	Bad River near Fort Pierre	79	1928-2008	78
SD	06445700	White River at Slim Butte, Sd	19	1989-1997	13
SD	06446000	White River near Oglala Sd	63	-	-
SD	06446200	White River near Rockyford Sd	9	1964-1970	5
SD	06447000	White River near Kadoka	65	1942-2008	64
SD	06449300	Little White River Abv Rosebud Sd	18	1981-1999	17
SD	06452000	White River near Oacoma	78	1928-2008	78
NE	06461500	Niobrara River near Sparks	60	-	-
NE	06462000	(N) Niobrara River near Norden	32	-	-
NE	06463000	(N) Niobrara River at Meadville	-	-	-
NE	06463500	(N) Long Pine Creek near Riverview	56	-	-
NE	06463720	Niobrara River at Mariaville	6	1985-1991	5
WY	06644550	North Platte River at Casper	-	-	-
WY	06652000	North Platte River at Orin	50	1916-2008	48
WY	06656000	North Platte River belowGuernsey Reservoir	64	-	-
WY	06670500	Laramie River near Fort Laramie	89	1915-2008	80



**Appendix A-v – Period of mean daily data and number of instantaneous peak discharge data for the Northern Glaciated Plains (Ecoregion 46).**

State	Gage number	Gage identification	Number of peaks	Mean Daily data	Complete years of data
ND	05058700	Sheyenne River at Lisbon	50	1956-2008	49
ND	05064900	Beaver Creek near Finley	39	1964-2003	38
ND	05099380	Pembina River near Vang	-	-	-
ND	05099400	Little South Pembina River near Walhalla	33	1956-2007	29
ND	05114000	Souris River near Sherwood	77	1930-2007	76
ND	05116000	Souris River near Foxholm	70	1936-2007	70
ND	05120000	Souris River near Verendrye	70	1937-2007	69
ND	05122000	Souris River near Bantry	70	1937-2007	69
ND	05123400	Willow Creek near Willow City	50	1956-2007	50
ND	05123500	Stone Creek near Kramer	9	1986-2000	0
ND	05123760	Deep River Below Cut Bank Creek near Upham	-	-	-
ND	05123900	Boundary Creek near Landa	36	1957-2000	23
ND	05124000	Souris River near Westhope	77	1929-2007	76
SD	05291000	Whetstone River near Big Stone City	80	1910-2007	75
SD	05292810	Labolt Impoundment Inlet at Labolt	-	-	-
MN	05293000	Yellow Bank River near Odessa	67	1939-2007	63
SD	05299670	West Branch Lac Qui Parle River near Gary	-	-	-
MN	05299750	Florida Creek near Burr	18	1982-1984	-
MN	05304500	Chippewa River near Milan	70	1937-2007	68
MN	05311000	Minnesota River at Montevideo	97	1909-2007	83
MN	05311310	Dillon-Sylte Impoundment Inlet near Porter	-	1980-1984	1
MN	05311320	Dillon-Sylte Impoundment Outlet near Porter	-	1980-1984	1
ND	06467600	James River near Manfred	38	1957-1994	30
ND	06468170	James River near Grace City	38	1968-2007	38
ND	06468250	James River above Arrowwood Lake near Kensal	21	1985-2007	21
ND	06468500	James River near Pingree	-	1952-1968	11
ND	06470000	James River at Jamestown	72	1928-2007	68
ND	06470500	James River at Lamoure	57	1950-2007	56
ND	06470830	James River at Oakes	-	1982-2005	0
ND	06470875	James River at Dakota Lake Dam near Ludden	20	2002-2008	2
SD	06470980	James River near Hecla	-	1985-1986	0
SD	06471000	James River at Columbia	60	1945-2007	28
SD	06473000	James River at Ashton	60	1945-2007	52
SD	06478500	James River near Scotland	78	1928-2007	78
SD	06479529	Stray Horse Creek near Castlewood	17	1968-1985	16
SD	06479640	Hidewood Creek near Estelline	34	1968-1985	16
SD	06480000	Big Sioux River near Brookings	53	1953-2007	52
SD	06481500	Skunk Creek at Sioux Falls	56	1948-2007	54
MN	443636096095402	Dillon-Sylte Impoundment Inlet near Porter	-	-	-
MN	443916096174801	Lac Qui Parle River (Lqp-8) near Canby	-	1982-1984	1

**Appendix A-vi – Period of mean daily data and number of instantaneous peak discharge data for the Lake Agassiz Plain (Ecoregion 48).**

State	Gage number	Gage identification	Number of peaks	Mean Daily data	Complete years of data
MN	05030150	Otter Tail River near Perham	-	1993-1994	0
ND	05051522	Red River of the North at Hickson	30	1975-2006	30
ND	05053000	Wild Rice River near Abercrombie	73	1932-2006	73
ND	05054020	Red River of the North below Fargo	-	-	-
ND	05059000	Sheyenne River near Kindred	57	1949-2006	56
MN	05062500	Wild Rice River at Twin Valley	85	1945-2007	75
MN	05064000	Wild Rice River at Hendrum	63	1944-2006	59
MN	05064500	Red River of the North at Halstad	66	1961-2006	44
MN	05079000	Red Lake River at Crookston	104	1901-2007	105
ND	05082625	Turtle River at Turtle River State Park near Arvilla	13	1992-2006	13
MN	05083500	Red River of the North at Olso	43	1936-1976	2
MN	05085900	Snake River above Alvarado	4	1992-1996	3
ND	05099600	Pembina River at Walhalla	59	1939-2007	56
ND	05102490	Red River of the North at Pembina	21	-	-
MN	05061000	Buffalo River near Hawley	63	1945-2007	54
MN	05061500	South Branch Buffalo River at Sabin	62	1945-2007	54
MN	05062000	Buffalo River near Dilworth	76	1931-2007	74
MN	05087500	Middle River at Argyle	58	1945-2007	54

**Appendix B-i – Location of USGS gages with suspended-sediment data and transport rating relations for the Northern Rockies (Ecoregion 15).**

State	Gage number	Gage identification	Latitude	Longitude	Number of suspended sediment samples	Load Coefficient	Load Exponent	First sample	Last sample
ID	12318500	Kootenai River near Copeland	48.911891	-116.41743	72	0.0028	1.9527	5/30/1974	9/1/1982
ID	12322000	Kootenai River at Porthill	48.996389	-116.5075	54	0.0184	1.5702	11/9/1983	9/14/1995
MT	12363000	Flathead River at Columbia Falls	48.361908	-114.18485	106	0.0002	2.49	2/14/1979	8/7/2007
MT	12375800	Little Bitterroot River Near Perma	47.479101	-114.45568	31	10.531	1.0802	1/9/1987	3/10/1992
MT	12376900	Crow Creek at Mouth near Ronan	47.470489	-114.27901	31	1.6052	0.9421	2/24/1987	3/11/1992
MT	12379600	Mission Creek at National Bison Range at Moiese	47.369653	-114.2504	31	0.7182	1.4826	2/24/1987	3/11/1992
MT	12388200	Jocko River at Dixon	47.311874	-114.29762	31	0.1109	2.1046	2/24/1987	3/11/1992
MT	12388700	Flathead River at Perma	47.367432	-114.58513	99	0.0148	1.5883	4/23/1984	6/27/2007
ID	12391950	Clark Fork River below Cabinet Gorge Dam	48.088056	-116.07278	171	0.3531	0.9153	5/31/1984	9/25/2006
ID	12392000	Clark Fork at Whitehorse Rapids near Cabinet	48.091667	-116.11667	118	0.0448	1.2301	5/31/1984	9/3/1996
ID	12392660	Sand Creek near Sandpoint	48.309647	-116.55075	31	0.6827	1.5809	4/6/1991	4/14/1993
WA	12398600	Pend Oreille River at International Boundary	48.998814	-117.35358	103	0.0935	1.1544	2/26/1974	11/6/1985
WA	12400520	Columbia River at Northport	48.9188	-117.78748	200	0.00003	2.1657	10/9/1974	9/27/2000
ID	12413000	Nf Coeur D Alene River at Enaville	47.568889	-116.25333	106	0.015	1.7417	5/21/1980	11/7/2006
ID	12413470	Sf Coeur D Alene River near Pinehurst	47.551944	-116.23639	138	0.104	1.6054	7/12/1989	11/8/2006
ID	12413500	Coeur D Alene River near Cataldo	47.555	-116.32444	53	0.0172	1.7222	11/12/1986	4/17/2002
ID	12416000	Hayden Creek below North Fork near Hayden Lake	47.822525	-116.6546	107	0.326	1.3765	10/10/1972	6/25/1996
ID	12419000	Spokane River near Post Falls	47.703056	-116.97778	91	0.0072	1.1343	7/25/1989	9/3/2003
ID	13340600	Nf Clearwater River near Canyon Ranger Station	46.840556	-115.62111	34	0.000007	3.1321	4/20/1994	5/17/1997

**Appendix B-ii – Location of USGS gages with suspended-sediment data and transport rating relations for the Middle Rockies (Ecoregion 17).**

State	Gage number	Gage identification	Latitude	Longitude	Number of suspended sediment samples	Load Coefficient	Load Exponent	First sample	Last sample
MT	06037500	Madison River near West Yellowstone	44.656872	-111.06827	38	0.0114	2.542	4/14/1989	8/8/1995
MT	06038500	Madison River below Hebgen Lake near Grayling	44.866593	-111.33829	30	0.0217	1.5743	10/8/1991	8/9/1995
MT	06041000	Madison River below Ennis Lake near McAllister	45.490206	-111.63414	31	0.0198	1.9171	5/10/1991	8/10/1995
MT	06054500	Missouri River at Toston	46.14604	-111.42052	191	0.0052	2.2317	10/30/1973	7/24/2003
MT	06154410	Little Peoples Creek near Hays	47.966104	-108.66071	103	5.447	1.3878	10/14/1976	6/25/2003
WY	06188000	Lamar River near Tower Ranger Station	44.927716	-110.39381	42	0.0645	2.139	5/8/1985	9/10/1992
MT	06191500	Yellowstone River at Corwin Springs	45.11188	-110.79438	84	0.0035	2.4087	5/7/1985	9/24/2001
MT	06192500	Yellowstone River near Livingston	45.597158	-110.56604	126	0.0044	2.3281	3/7/1979	7/30/2003
WY	06220500	East Fork Wind River near Dubois	43.4544	-109.46654	111	0.8193	1.8994	11/19/1975	8/27/1986
WY	06279790	Jones Creek at Mouth, near Pahaska	44.558555	-109.98824	63	1.6123	1.7763	4/4/1989	9/28/1993
WY	06279795	Crow Creek at Mouth, at Pahaska	44.513278	-109.97352	172	0.6175	1.5684	4/5/1989	9/13/2004
WY	06280300	South Fork Shoshone River near Valley	44.208282	-109.55489	38	0.1965	1.9999	10/3/1958	7/19/2000
SD	06409000	Castle Creek above Deerfield Res near Hill City	44.013592	-103.83048	186	6.7408	1.465	10/27/1969	2/6/1996
SD	06436180	Whitewood Creek above Whitewood	44.442207	-103.62936	228	2.9554	2.4061	4/19/1983	9/1/2004
WY	09188500	Green River at Warren Bridge, near Daniel	43.018829	-110.11822	54	0.1655	1.7003	2/4/1975	8/31/1978
WY	09196500	Pine Creek above Fremont Lake	43.030502	-109.77015	41	0.2719	1.1748	6/4/1975	9/6/1978
WY	09203000	East Fork River near Big Sandy	42.6725	-109.42167	49	0.4124	1.1691	4/1/1975	9/5/1978
WY	09208000	La Barge Creek near La Barge Meadows Ranger Station	42.506944	-110.67472	44	1.0917	1.3989	5/1/1975	10/3/1978
WY	09212500	Big Sandy R at Leckie Ranch, near Big Sandy	42.571339	-109.28346	40	0.5172	1.2924	12/11/1974	9/5/1978
WY	09223000	Hams Fork Below Pole Creek, near Frontier	42.110494	-110.70962	46	1.0464	1.4674	4/4/1975	9/6/1978
MT	12323230	Blacktail Creek at Harrison Avenue at Butte	45.985204	-112.50808	83	1.8336	1.6898	3/8/1993	8/25/2003
MT	12323250	Silver Bow Creek below Blacktail Creek at Butte	45.996315	-112.56336	90	1.9447	2.4003	3/8/1993	8/20/2004
MT	12323600	Silver Bow Creek at Opportunity	46.107703	-112.80559	94	1.2311	2.1079	3/8/1993	8/20/2004
MT	12323750	Silver Bow Creek at Warm Springs	46.17937	-112.78143	30	0.2911	1.6302	3/9/1993	8/7/1995
MT	12323770	Warm Springs Creek at Warm Springs	46.180203	-112.78587	72	0.5228	1.7743	3/9/1993	8/20/2004
MT	12323800	Clark Fork near Galen	46.208259	-112.76726	141	0.24	1.8829	7/6/1988	8/20/2004
MT	12324200	Clark Fork at Deer Lodge	46.397705	-112.74282	193	0.3325	2.0722	3/29/1985	8/20/2004
MT	12324590	Little Blackfoot River near Garrison	46.519651	-112.79338	113	0.1702	2.1433	3/29/1985	8/20/2004

State	Gage number	Gage identification	Latitude	Longitude	Number of suspended sediment samples	Load Coefficient	Load Exponent	First sample	Last sample
MT	12324680	Clark Fork at Goldcreek	46.590486	-112.92866	99	0.0971	2.1572	3/9/1993	8/20/2004
MT	12331500	Flint Creek near Drummond	46.628819	-113.15145	139	1.0302	1.7076	3/29/1985	8/23/2004
MT	12331800	Clark Fork near Drummond	46.712152	-113.33091	99	0.0404	2.3713	3/9/1993	8/23/2004
MT	12334510	Rock Creek near Clinton	46.722427	-113.68315	112	0.0191	2.2237	3/28/1985	8/23/2004
MT	12334550	Clark Fork at Turah Bridge near Bonner	46.826037	-113.81427	274	0.0156	2.3149	3/28/1985	8/23/2004
MT	12335500	Nevada Creek above reservoir, near Helmville	46.778269	-112.76754	62	1.1088	1.7178	6/10/1980	8/25/2004
MT	12340000	Blackfoot River near Bonner	46.89965	-113.75649	147	0.0059	2.3099	3/28/1985	8/23/2004
MT	12340500	Clark Fork above Missoula	46.877147	-113.93233	232	0.0147	2.0627	7/17/1986	8/23/2004
MT	12353000	Clark Fork below Missoula	46.86909	-114.12678	118	0.0073	2.0432	10/20/1978	5/17/2001
WY	13010065	Snake River above Jackson Lake at Flagg Ranch	44.098889	-110.6675	152	0.0068	2.5443	11/24/1987	9/22/2004
WY	13011500	Pacific Creek at Moran	43.850278	-110.51778	39	0.0041	3.2494	4/29/1987	6/25/1993
WY	13013650	Snake River at Moose	43.654056	-110.71547	85	0.0017	2.504	4/13/1995	9/9/2004
WY	13018300	Cache Creek near Jackson	43.452153	-110.70409	182	4.2909	1.788	10/1/1973	6/11/1996
WY	13019430	Granite Creek near Bondurant	43.295489	-110.50019	42	0.0783	2.3008	5/9/1986	7/5/1990
WY	13019438	Little Granite Creek at Mouth near Bondurant	43.298619	-110.51774	63	0.0427	1.7277	10/9/1985	6/8/1992
WY	13022500	Snake River above Reservoir near Alpine	43.196111	-110.88944	47	0.0033	2.3116	1/8/1974	5/23/1994
WY	13027500	Salt River above Reservoir near Etna	43.079722	-111.03722	39	0.0427	2.3407	1/27/1993	6/27/1995
ID	13120500	Big Lost River at Howell Ranch near Chilly	43.998333	-114.02111	51	0.0612	2.1531	11/3/1983	9/12/2003
MT	464810112490001	Nevada Creek below Reservoir near Helmville	46.802714	-112.81755	51	1.2905	0.972	4/19/1994	1/4/2000

**Appendix B-iii – Location of USGS gages with suspended-sediment data and transport rating relations for the Northwest Glaciated Plains (Ecoregion 42).**

State	Gage number	Gage identification	Latitude	Longitude	Number of suspended sediment samples	Load Coefficient	Load Exponent	First sample	Last sample
MT	06073500	Dearborn River near Craig	47.199112	-112.09639	20	0.4869	1.471	6/2/1999	7/15/2003
MT	06085800	Sun River at Simms	47.50245	-111.93249	20	0.4736	1.4699	3/18/1996	12/2/1997
MT	06088300	Muddy Creek near Vaughn	47.624957	-111.63554	121	3.2764	2.2224	8/13/1968	10/18/2006
MT	06088500	Muddy Creek at Vaughn	47.560791	-111.54136	165	5.0227	2.2531	3/4/1968	3/8/2007
MT	06089000	Sun River near Vaughn	47.525791	-111.51192	146	0.8387	1.696	11/5/1986	3/8/2007
MT	06090300	Missouri River near Great Falls	47.58441	-111.06052	17	-	-	9/16/1994	10/7/1994
MT	06090610	Belt Creek near Portage	47.587189	-111.03191	28	1.4645	1.8374	10/16/1981	8/23/1983
MT	06090720	Highwood Creek near Portage	47.642467	-110.93357	29	3.2484	2.0937	10/31/1980	8/23/1983
MT	06090800	Missouri River at Fort Benton	47.81747	-110.66716	29	0.0002	2.6816	7/14/1980	8/20/1986
MT	06101500	Marias River near Chester	48.306371	-111.08053	70	0.1443	1.3327	12/22/1977	8/19/1986
MT	06102500	Teton River below South Fork near Choteau	47.883006	-112.61198	85	0.5035	1.4079	5/19/1998	6/20/2007
MT	06108000	Teton River near Dutton	47.930241	-111.55276	79	5.8999	1.4607	5/19/1998	1/16/2006
MT	06108800	Teton River at Loma	47.932472	-110.51438	59	7.0273	1.6719	5/27/1998	6/20/2007
MT	06109500	Missouri River at Virgelle	48.004973	-110.25771	101	0.000003	3.1083	10/2/1974	9/4/1991
MT	06132000	Missouri River below Fort Peck Dam	48.044185	-106.35642	105	0.0255	1.6343	10/23/1974	8/30/2004
MT	06137570	Boxelder Creek near Rocky Boy	48.301933	-109.84437	38	3.2705	1.4566	10/14/1976	9/16/1993
MT	06139500	Big Sandy Creek near Havre	48.526663	-109.8416	18	1.79	0.8924	10/2/1985	11/28/1989
MT	06154430	Lodge Pole Creek at Lodge Pole	48.031107	-108.53265	15	5.6256	1.0904	7/13/1988	8/4/1992
MT	06154550	Peoples Creek below Kuhr Coulee near Dodson	48.363608	-108.35625	17	5.4077	1.1579	5/20/1999	6/25/2003
MT	06169500	Rock Creek below Horse Creek near Int Bndry	48.969467	-106.8395	81	10.231	1.1515	10/16/1978	4/16/1996
MT	06174500	Milk River at Nashua	48.129742	-106.36448	186	3.8636	1.5217	3/27/1974	8/25/2003
MT	06175540	Prairie Elk Creek near Oswego	47.998906	-105.86723	44	67.468	1.4424	10/14/1975	9/13/1979
MT	06177650	Redwater River near Richey	47.630846	-105.3286	23	2.9761	1.1637	5/25/1982	9/26/1985
MT	06177825	Redwater River near Vida	47.901961	-105.21554	91	8.7823	1.2145	10/15/1975	9/27/1985
MT	06178000	Poplar River at International Boundary	48.990302	-105.69667	190	2.6001	1.026	2/23/1977	7/3/2007
MT	06178150	Poplar River near Scobey	48.873079	-105.49778	21	6.5429	0.9704	2/24/1977	6/21/1979
MT	06178500	East Poplar River at International Bndry	48.9994	-105.4089	244	4.3414	0.9838	12/18/1974	8/29/2007
MT	06179000	East Fork Poplar River near Scobey	48.852246	-105.42138	129	4.0204	1.0359	2/25/1977	8/10/1995
MT	06179200	Poplar River ab West Fork near Bredette	48.551412	-105.36582	43	4.5059	1.251	2/22/1977	9/23/1981

State	Gage number	Gage identification	Latitude	Longitude	Number of suspended sediment samples	Load Coefficient	Load Exponent	First sample	Last sample
MT	06179500	West Fork Poplar River at International	49.000025	-106.36726	27	2.0932	1.0102	1/17/1977	9/18/1979
MT	06180400	West Fork Poplar River near Bredette	48.550301	-105.42888	63	4.2481	1.1738	2/22/1977	9/11/1984
MT	06181000	Poplar River near Poplar	48.170852	-105.17887	138	6.6615	1.1877	8/13/1975	8/29/2007
MT	06183450	Big Muddy Creek near Antelope	48.672805	-104.51218	75	7.1207	1.1715	10/25/1978	9/2/1987
MT	06329540	Lone Tree Creek near Sidney	47.746683	-104.3305	16	1.9135	1.1088	10/21/1980	7/5/1983
ND	06340930	Buffalo Creek near Washburn	47.30333	-101.08932	42	13.859	1.2563	10/10/1978	9/9/1983
SD	06453000	Missouri River at Fort Randall Dam	43.064995	-98.553416	118	0.0144	1.7567	10/7/1974	9/13/2005
SD	06453200	Choteau Creek near Wagner	43.097771	-98.287856	30	2.1045	0.8799	3/21/1986	4/8/2002
SD	06453252	Choteau Creek near Dante	43.02555	-98.167854	52	6.5019	0.9775	10/16/1985	6/12/2002
SD	06453300	Choteau Creek Below Avon	42.861109	-98.140631	60	11.566	1.2446	6/26/1990	8/28/2002
NE	06453500	Ponca Creek at Anoka	42.9403	-98.8417	-	-	-	-	-
NE	06465500	Niobrara River near Verdel	42.739722	-98.222778	141	1.3413	2.0909	11/6/1974	8/24/1994

**Appendix B-iv – Location of USGS gages with suspended-sediment data and transport rating relations for the Northwestern Great Plains (Ecoregion 43).**

State	Gage number	Gage identification	Latitude	Longitude	Number of suspended sediment samples	Load Coefficient	Load Exponent	First sample	Last sample
MT	06075700	Nf Smith River near Mouth near White Sulphur Springs	45.80222	-102.36238	34	1.2741	0.8961	3/9/1993	8/31/1995
MT	06075800	Sf Smith River at Mouth near White Sulphur Springs	45.6488827	-102.64127	34	3.0242	1.0535	3/10/1993	8/31/1995
MT	06075900	Big Birch Creek at Mouth near White Sulphur Springs	45.6577741	-100.81819	34	0.9532	1.4417	3/10/1993	8/31/1995
MT	06076550	Newlan Creek at Mouth near White Sulphur Springs	45.2558171	-100.84292	34	3.5215	0.8666	3/10/1993	8/31/1995
MT	06076600	Camas Creek at Mouth near White Sulphur Springs	43.4210841	-104.1316	32	1.6905	1.6815	3/10/1993	8/30/1995
MT	06076650	Benton Gulch at Mouth near White Sulphur Sps	43.305253	-103.56242	32	8.627	1.3178	3/10/1993	8/30/1995
MT	06076690	Smith River near Ft Logan	44.0791545	-103.20379	33	1.7889	1.452	3/23/1993	8/30/1995
MT	06077090	Sheep Creek near Mouth near White Sulphur Springs	44.0674879	-103.18101	33	0.3792	1.4786	3/9/1993	8/30/1995
MT	06115200	Missouri River near Landusky	44.0641546	-103.19268	195	0.0047	2.5388	3/12/1974	9/7/2005
MT	06120500	Musselshell River at Harlowton	44.6177628	-103.48158	23	3.3605	1.2816	11/5/1987	9/11/1991
MT	06126470	Halfbreed Creek near Klein	44.5130418	-103.13685	53	1.9243	0.9475	10/18/1977	8/27/1984
MT	06126500	Musselshell River near Roundup	44.3697085	-102.566	50	0.8685	2.231	10/18/1977	9/23/1981
MT	06127160	West Parrot Creek near Roundup	44.3730377	-100.36791	40	2.2496	1.1552	3/27/1978	9/22/1981
MT	06127300	Fattig Creek near Delphia	43.9688787	-101.76709	33	0.6222	0.8643	5/18/1978	9/22/1981
MT	06127500	Musselshell River at Musselshell	44.2105377	-100.72653	23	7.1344	1.4586	11/10/1987	9/6/1991
MT	06130500	Musselshell River at Mosby	44.326649	-100.3843	277	10.956	1.3545	10/22/1974	6/15/2004
MT	06131120	Timber Creek near Van Norman	43.0897036	-102.79823	22	19.088	1.165	3/17/1976	11/13/1979
MT	06131200	Nelson Creek near Van Norman	43.2547047	-102.82518	24	85.357	1.3657	10/16/1975	7/2/1979
MT	06177500	Redwater River at Circle	43.5144342	-102.49212	97	6.8713	1.0601	10/21/1974	8/21/1985
MT	06177520	Horse Creek near Circle	43.7524949	-101.52487	16	5.4213	1.0546	4/1/1977	8/21/1979
MT	06185150	Hardscrabble Creek near Culbertson	43.2630597	-100.91765	16	3.2012	0.8892	10/21/1980	5/23/1983
MT	06185500	Missouri River near Culbertson	43.7483275	-99.556495	155	0.2167	1.7994	10/1/1973	8/8/2005
MT	06195600	Shields River near Livingston	48.10808	-103.71464	20	1.075	1.7794	5/17/1999	7/30/2003
MT	06197500	Boulder River near Contact	48.15447	-103.57464	14	0.0651	1.9925	8/26/1981	8/25/1983
MT	06200000	Boulder River at Big Timber	48.18113	-103.02435	34	0.0869	1.8084	8/25/1981	7/29/2003
MT	06202530	Stillwater River above West Fork at Nye	47.78724	-102.76853	36	0.114	1.4966	10/5/1970	9/18/1973
MT	06202598	West Fk Stillwater River below Castle Creek near Nye	46.29778	-103.9175	14	0.1934	1.5421	8/27/1981	8/18/1983
MT	06204220	Butcher Creek near Luther	46.57696	-103.55769	141	-	-	5/5/1960	4/15/1986
MT	06204240	Butcher Creek near Roscoe	46.91946	-103.52824	151	-	-	5/5/1960	9/29/1961
MT	06204260	Butcher Creek near Fishtail	47.04057	-104.13493	148	11.414	1.5752	5/5/1960	9/29/1961
MT	06205000	Stillwater River near Absarokee	47.16307	-103.99271	20	0.0765	1.656	5/18/1999	9/8/2003
MT	06205200	Yellowstone River at Laurel	47.59585	-103.26436	39	0.0105	2.0955	11/12/1974	9/27/1978
MT	06207700	North Fork Bluewater Creek Bridger	47.50222	-101.431	715	-	-	3/30/1960	9/27/1968
MT	06207850	Bluewater Creek at Sanford Ranch near Bridger	47.23613	-102.76991	194	31.816	2.3593	3/30/1960	6/12/1970
MT	06207870	Bluewater Creek near Fromberg	47.13806	-102.33379	194	28.26	1.5888	3/31/1960	9/21/1968
MT	06207900	Bluewater Creek at Fromberg	47.15445	-102.05989	610	22.116	1.653	4/1/1960	5/29/1980
MT	06208500	Clarks Fork Yellowstone River at Edgar	47.19917	-101.91211	47	0.365	2.0234	1/29/1999	9/4/2003
MT	06214500	Yellowstone River at Billings	47.17862	-101.78516	184	0.0029	2.3992	10/30/1974	9/25/2001
MT	06217500	Yellowstone River at Huntley	47.34279	-102.61796	73	0.0156	2.0941	11/12/1974	9/22/1981
MT	06288200	Beauvais Creek near St. Xavier	47.36556	-102.37685	58	36.749	1.7536	10/16/1973	9/21/1978
MT	06289000	Little Bighorn River at State Line near Wyola	47.28612	-101.92573	56	1.468	1.2476	5/25/1993	8/7/2001
MT	06289500	Little Bighorn River near Wyola	47.28528	-101.62211	50	3.8985	1.1301	5/25/1993	8/7/2001
MT	06290500	Little Bighorn River below Pass Creek near Wyola	47.33528	-101.69517	19	26.701	1.4066	4/7/1970	5/3/1973
MT	06294000	Little Bighorn River near Hardin	47.36306	-101.90767	69	1.236	2.242	4/13/1974	8/9/2001
MT	06294500	Bighorn River above Tullock Creek near Bighorn	47.35584	-101.85489	20	13.211	0.7889	5/24/1999	8/6/2003
MT	06294700	Bighorn River at Bighorn	47.32917	-101.78545	134	0.0658	1.9699	10/21/1974	9/10/1992
MT	06294840	Yellowstone River at Myers	47.33417	-101.52766	30	0.0018	2.4347	4/21/1975	9/16/1977
MT	06294920	East Fork Sarpy Creek near Colstrip	47.26916	-101.30988	17	7.6469	1.1798	11/17/1980	7/19/1983
MT	06294940	Sarpy Creek near Hysham	47.10222	-101.25654	73	7.3437	1.1684	12/3/1974	6/28/1984
MT	06294980	East Fork Armells Creek near Colstrip	47.06611	-101.23681	82	4.5031	1.1408	1/20/1975	9/27/1985
MT	06294995	Armells Creek near Forsyth	46.86557	-102.94851	130	18.005	1.2236	10/8/1974	8/22/1995
MT	06295000	Yellowstone River at Forsyth	47.02779	-103.05324	167	0.0022	2.4194	4/22/1975	9/8/2004
MT	06295110	Rosebud Creek at Kirby	46.83388	-100.97458	18	13.464	1.6797	10/4/1977	9/10/1979
MT	06295113	Rosebud Creek at Reservation Bndry near Kirby	46.54306	-102.88822	64	7.4667	1.1164	12/10/1979	9/7/2005
MT	06295250	Rosebud Creek near Colstrip	46.4639	-102.73933	95	9.49	1.3627	10/9/1974	9/27/1985
MT	06295380	Cow Creek near Colstrip	46.42667	-102.55183	22	6.3985	1.0422	11/8/1979	4/11/1985
MT	06295400	Rosebud Creek above Pony Creek near Colstrip	46.10139	-101.95765	36	9.0736	1.5508	10/8/1974	9/29/1977
MT	06295500	Rosebud Creek near Rosebud	46.37611	-100.93444	32	18.02	1.5359	10/10/1974	5/25/1977
MT	06296003	Rosebud Creek at Mouth near Rosebud	46.11112	-103.03933	149	26.987	1.2793	10/10/1974	8/3/2005
MT	06296120	Yellowstone River near Miles City	45.00691	-107.6151	78	0.0003	2.7395	4/23/1975	9/30/1981
WY	06298000	Tongue River near Dayton	45.177188	-107.39398	39	0.077	2.1508	6/19/1980	9/12/2001
WY	06299980	Tongue River at Monarch	44.849412	-107.30453	32	0.4176	1.846	8/11/1976	8/25/2005
WY	06305500	Goose Creek below Sheridan	44.900249	-107.02091	130	0.8168	1.891	10/10/1973	6/29/2000
WY	06305700	Goose Creek near Acme	44.823583	-106.96174	23	0.623	1.7241	6/29/2000	8/4/2005
MT	06306100	Squirrel Creek near Decker	44.886361	-106.98896	89	9.9762	1.1752	10/6/1975	6/26/1985
WY	06306250	Prairie Dog Creek near Acme	44.983863	-106.83979	24	13.121	1.5012	2/4/2004	8/10/2005
MT	06306300	Tongue River at State Line near Decker	45.008863	-106.83618	78	2.3085	1.263	6/21/2000	9/19/2005
MT	06307500	Tongue River at Tongue River Dam near Decker	43.619417	-106.57726	215	1.3427	1.0022	10/7/1975	9/19/2005
MT	06307525	Prairie Dog Creek above Jack Creek near Birney	43.436638	-106.42031	25	29.92	1.2573	4/24/1978	7/14/1983
MT	06307528	Prairie Dog Creek near Birney	43.621918	-106.36836	67	18.445	1.3713	5/18/1978	6/6/1983
MT	06307570	Hanging Woman Creek below Horse Creek near Birney	43.69553	-106.30725	60	6.4626	1.1413	10/20/1977	9/15/1987
MT	06307600	Hanging Woman Creek near Birney	44.491091	-106.17781	166	9.1371	1.1451	10/2/1974	7/13/2005
MT	06307610	Tongue River below Hanging Woman C. near Birney	44.649982	-106.12753	53	0.2996	1.8597	5/7/1979	9/13/1979
MT	06307615	Cook Creek near Birney	44.362197	-106.65421	34	11.601	1.4487	10/2/1974	9/8/1977
MT	06307616	Tongue River at Birney Day School Br near Birney	44.552476	-106.5356	103	0.4642	1.787	10/2/1979	9/19/2005
MT	06307665	Otter Creek near Otter	44.871652	-106.0828	53	1.5092	0.8495	10/17/1977	8/7/1984
MT	06307717	Otter Creek below Fifteenmile Creek near Otter	45.057765	-105.87807	30	3.3906	1.0201	5/21/1982	9/11/1985
MT	06307725	Otter Creek above Tenmile Creek near Ashland	44.504722	-105.45444	35	6.8758	1.5574	10/18/1977	8/13/1981
MT	06307735	Home Creek near Ashland	44.6475	-105.31028	53	5.7931	1.1063	11/9/1979	10/4/1983
MT	06307740	Otter Creek at Ashland	44.926929	-105.35333	167	7.0447	1.0291	10/2/1974	8/2/2005
MT	06307830	Tongue River below Brandenburg Bridge near Ashland	43.485526	-105.22804	134	0.9252	1.8297	3/20/1975	9/20/2005
MT	06307990	Tongue River above T & Y Div Dam near Miles City	43.222467	-105.66722	19	2.9072	1.3852	11/1/2004	9/20/2005
MT	06308400	Pumpkin Creek near Miles City	43.655	-104.90917	72	129.93	1.4648	10/15/1975	7/13/2005



State	Gage number	Gage identification	Latitude	Longitude	Number of suspended sediment samples	Load Coefficient	Load Exponent	First sample	Last sample
MT	06308500	Tongue River at Miles City	43.58164	-104.72024	194	2.8845	1.6514	10/24/1974	9/20/2005
WY	06309500	Middle Fork Powder River Above Kaycee	43.561085	-104.56162	22	216.85	1.3963	4/1/1966	7/30/1970
WY	06313000	South Fork Powder River near Kaycee	43.369444	-104.27222	87	611.03	1.7703	6/8/1950	9/22/1987
WY	06313180	Dugout Creek Tributary near Midwest	43.428028	-104.19633	17	2075	0.7813	6/16/1982	9/16/1982
WY	06313400	Salt Creek near Sussex	43.984421	-105.38833	112	56.18	2.308	12/10/1975	10/15/1987
WY	06313500	Powder River at Sussex	44.024977	-105.32693	97	19.291	2.1005	8/12/1976	10/15/1987
WY	06316400	Crazy Woman Creek at Upper Sta, near Arvada	44.079978	-105.26693	120	18.161	1.8797	4/9/1950	6/8/2005
WY	06317000	Powder River at Arvada	44.288314	-105.47694	52	50.33	1.8507	10/10/1973	5/26/1996
WY	06320200	Clear Creek below Rock Creek near Buffalo	44.282759	-105.06387	70	0.7493	1.8407	11/11/1975	9/1/1981
WY	06320400	Clear Creek at Ucross	44.321926	-104.94053	63	2.4357	1.6328	11/11/1975	9/3/1981
WY	06324000	Clear Creek near Arvada	42.857187	-106.31975	205	2.2446	1.7211	1/7/1975	11/17/1983
MT	06324500	Powder River at Moorhead	42.652496	-105.15914	236	6.4987	2.1836	3/18/1975	9/27/2005
MT	06324710	Powder River at Broadus	42.280524	-104.75469	123	19.175	1.9396	10/1/1975	6/21/1995
WY	06324890	Little Powder River below Corral Creek near Weston	42.200523	-104.53829	51	3.3608	1.0312	6/3/1975	8/12/1983
WY	06324925	Little Powder River near Weston	42.780556	-99.339722	56	44.497	1.2916	6/5/1975	8/13/1981
WY	06324970	Little Powder River above Dry Creek, near Weston	46.535775	-110.94771	206	38.7	1.3559	1/8/1975	9/28/2005
MT	06325500	Little Powder River near Broadus	46.524107	-110.97244	43	16.971	1.1335	3/19/2002	9/6/2005
MT	06326050	Mizpah Creek at Olive	46.586887	-111.05467	26	0.6818	0.6283	11/19/1975	7/11/1979
MT	06326200	Mizpah Creek near Volborg	46.591888	-111.04911	17	1.9473	0.8236	11/13/1975	5/3/1977
MT	06326300	Mizpah Creek near Mizpah	46.705223	-111.19301	66	110.58	1.3675	10/17/1975	6/27/1984
MT	06326500	Powder River near Locate	46.705501	-111.19329	260	17.75	1.7556	9/24/1974	9/7/2005
MT	06326530	Yellowstone River near Terry	46.795782	-111.17884	83	0.0019	2.5125	4/23/1975	9/14/1983
MT	06326555	Cherry Creek near Terry	46.80745	-111.15856	61	19.719	1.3163	10/9/1977	6/9/1994
MT	06326600	O'Fallon Creek near Ismay	47.630823	-108.68765	66	18.583	1.1967	10/24/1977	6/27/1984
MT	06326953	Clear Creek near Hoyt	46.429956	-109.84074	18	1.5311	1.0757	1/31/1978	8/19/1980
MT	06326995	Upper Sevenmile Creek near Lindsay	46.387186	-108.54208	19	2.8798	1.1414	3/21/1978	8/19/1980
MT	06327850	Glendive Creek near Glendive	46.428019	-108.57264	33	208.34	1.4153	10/20/1977	9/23/1981
MT	06328000	Deer Creek near Glendive	46.432466	-108.41929	15	13.221	1.2535	3/21/1978	8/19/1980
MT	06329000	Cottonwood Creek near Intake	46.348857	-108.27845	20	5.7171	1.1446	3/21/1978	4/22/1981
MT	06329200	Burns Creek near Savage	46.523031	-108.109	58	10.952	1.1521	10/9/1978	9/24/1986
MT	06329500	Yellowstone River near Sidney	46.99471	-107.889	358	0.0096	2.3572	10/2/1973	9/6/2005
ND	06330000	Missouri River near Williston	47.405555	-106.17419	46	0.0032	2.2917	5/20/1975	7/20/1982
ND	06331570	Stony Creek near Williston	47.535558	-106.15364	39	14.097	1.1838	10/21/1977	6/16/1981
ND	06331850	Beaver Creek near Ray	47.414175	-105.57556	50	4.1728	1.1303	10/20/1977	9/9/1981
ND	06332515	Bear Den Creek near Mandaree	47.425286	-105.61667	151	26.747	1.2598	11/27/1973	8/23/1995
ND	06335500	Little Missouri River at Marmarth	48.077242	-104.58412	56	35.7	1.4757	10/10/1949	9/17/1951
ND	06335750	Deep Creek near Amidon	48.12502	-104.47273	53	20.881	1.3977	10/14/1977	8/18/1982
ND	06336000	Little Missouri River at Medora	45.738269	-110.47993	76	444.56	1.0358	10/3/1949	9/28/1951
MT	06336500	Beaver Creek at Wibaux	45.554659	-110.20075	54	5.4935	1.1444	10/23/1978	8/7/1984
MT	06336510	Hay Creek No. 2 near Wibaux	45.834106	-109.9388	11	19.554	1.4563	3/14/1978	4/9/1979
MT	06336515	Hay Creek near Wibaux	45.435219	-109.79684	34	4.9944	1.1818	3/13/1978	8/6/1981
MT	06336545	Little Beaver Creek near Wibaux 15-60-14Bbb	45.454663	-109.84518	14	6.2636	1.6147	3/20/1978	3/28/1980
ND	06336600	Beaver Creek near Trotters	45.290221	-109.47905	56	11.622	1.1962	10/14/1977	7/8/1981
ND	06337000	Little Missouri River near Watford City	45.373832	-109.45655	104	35.741	1.608	10/9/1974	8/3/1994
ND	06338490	Missouri River at Garrison Dam	45.442443	-109.446	43	0.0511	1.1788	10/24/1974	8/31/2005
ND	06339100	Knife River at Manning	45.551053	-109.38739	50	7.0341	1.1256	10/13/1977	9/14/1982
ND	06339300	Knife River at Marshall	45.654116	-108.75959	47	11.205	1.2677	10/13/1977	9/11/1981
ND	06339550	Coyote Creek near Zap	45.337448	-108.83597	55	6.4184	1.1367	10/19/1977	11/10/1983
ND	06339560	Brush Creek near Beulah	45.364948	-108.86764	90	4.4773	1.2231	11/29/1974	10/11/1988
ND	06339800	Spring Creek below Lake Ilo near Dunn Center	45.382725	-108.90153	54	3.4925	1.0229	10/13/1977	9/10/1981
ND	06339900	Spring Creek near Halliday	45.466059	-108.84376	55	7.0553	1.2371	10/13/1977	9/10/1981
ND	06340000	Spring Creek at Zap	45.799953	-108.46736	77	5.7042	1.4693	5/29/1975	11/18/1981
ND	06340500	Knife River at Hazen	45.904123	-108.31763	132	5.2795	1.5644	10/22/1974	10/13/1993
ND	06340520	Antelope Creek Above Hazen	45.476997	-108.00864	35	5.8802	1.2352	10/19/1977	5/14/1982
ND	06340524	West Branch Antelope Creek No. 5 near Zap	45.101077	-107.44037	36	7.5185	1.2281	6/15/1977	4/22/1982
ND	06340528	West Branch Antelope Creek No. 4 near Zap	45.735812	-107.55731	47	6.1172	1.3344	6/15/1977	4/22/1982
ND	06340536	West Branch Antelope Creek NO. 2 near Beulah	46.124709	-107.46896	24	20.237	1.1307	6/15/1977	4/17/1980
ND	06340580	Coal Creek near Stanton	46.147209	-107.46729	34	6.6715	1.118	10/18/1977	5/27/1981
ND	06340780	Alderin Creek near Fort Clark	46.251654	-107.34923	40	60.68	1.3394	10/19/1977	5/13/1982
ND	06342200	Square Butte Creek above Nelson Lake near Center	45.816655	-106.99615	57	7.4422	1.2082	10/18/1977	9/2/1981
ND	06342230	Hagel Creek near Center	46.2386	-107.13728	43	5.4195	1.1533	10/18/1977	5/11/1982
ND	06342500	Missouri River at Bismarck	45.978328	-106.64447	93	0.029	1.8786	11/7/1974	9/25/2001
ND	06343000	Heart River near South Heart	46.086104	-106.76976	58	14.714	1.1359	10/12/1977	9/15/1982
ND	06344600	Green River near New Hradec	46.249715	-106.80671	49	4.8032	1.1378	10/12/1977	9/15/1982
ND	06349000	Heart River near Mandan	46.266106	-106.69059	102	3.345	1.423	4/20/1975	7/13/1993
ND	06349900	Cannonball River at New England	45.333032	-106.98673	42	12.03	1.1563	10/4/1978	9/2/1981
ND	06349930	Coal Bank Creek near Havelock	45.361089	-106.99034	74	8.8816	1.289	5/6/1975	5/4/1982
ND	06350000	Cannonball River at Regent	45.767496	-106.57002	51	6.941	1.1455	10/20/1977	9/2/1981
ND	06352400	Timber Creek near Bentley	45.864165	-106.45113	54	5.9656	1.1777	10/21/1977	9/1/1981
ND	06354000	Cannonball River at Breien	45.892499	-106.4014	118	7.6528	1.553	11/25/1974	8/5/1992
ND	06355310	Buffalo Creek Tributary near Gascoyne	46.112775	-106.4528	75	4.0773	0.9695	12/4/1974	8/28/1987
SD	06355500	North Fork Grand River near White Butte	46.26472	-106.47558	35	7.8101	1.471	10/26/1949	9/12/1951
SD	06356500	South Fork Grand River near Cash	46.398058	-105.89556	58	37.302	1.3425	7/3/1972	7/13/1994
SD	06357800	Grand River at Little Eagle	45.051363	-106.92729	69	35.733	1.4044	3/20/1973	9/10/1990
SD	06360500	Moreau River near Whitehorse	45.008863	-106.83618	84	45.235	1.4713	7/3/1972	7/13/1994
WY	06364700	Antelope Creek near Teckla	45.141367	-106.77145	49	12.82	1.2284	10/3/1977	8/11/1981
WY	06365300	Dry Fork Cheyenne River near Billo	45.335538	-106.77422	49	98.777	1.6518	2/22/1977	10/2/1987
WY	06365900	Cheyenne River near Dull Center	45.291095	-106.68283	58	78.567	1.5961	11/4/1975	10/1/1987
WY	06375600	Little Thunder Creek near Hampshire	45.133875	-106.48393	59	87.637	1.416	9/30/1977	5/28/1997
WY	06376300	Black Thunder Creek near Hampshire	45.295546	-106.50393	13	308.81	1.4529	5/7/1980	9/25/1989
WY	06378300	Lodgepole Creek near Hampshire	45.338602	-106.52504	31	29.519	1.1961	3/23/1978	5/19/1981
WY	06386000	Lance Creek near Riverview	45.377492	-106.49642	69	59.156	1.619	12/3/1975	9/21/1983
WY	06386400	Cheyenne River at Riverview	45.41166	-106.45781	19	42.68	1.8231	1/20/1981	9/21/1982
WY	06386500	Cheyenne River near Spencer	45.137491	-106.12335	16	14.76	1.2481	10/22/1973	8/23/2005
SD	06400500	Cheyenne River near Hot Springs Sd	45.403052	-106.14251	93	408.1	1.5165	10/20/1949	8/23/1961

State	Gage number	Gage identification	Latitude	Longitude	Number of suspended sediment samples	Load Coefficient	Load Exponent	First sample	Last sample
SD	06414700	Rapid Creek at East Main St at Rapid City Sd	45.432775	-106.14807	50	4.4802	2.1895	5/21/1980	6/23/1982
SD	06416000	Rapid Creek belowHawthorn Ditch at Rapid City	45.543055	-106.19473	52	3.0375	2.4611	5/21/1980	6/23/1982
SD	06416300	Meade Street Drain at Rapid City Sd	45.583889	-106.25529	52	204.76	1.5128	5/21/1980	6/23/1982
WY	06425720	Belle Fourche River below Rattlesnake C, near Piney	45.839724	-106.21973	25	7.5351	1.1186	2/9/1976	6/15/1982
WY	06425780	Belle Fourche River above Dry Creek near Piney	46.187502	-105.78	45	30.215	1.371	2/9/1976	6/14/1982
WY	06425900	Caballo Creek at Mouth, near Piney	45.712777	-105.73305	40	20.529	1.393	3/17/1978	5/17/1983
WY	06426100	Stonepile Creek at Gillette	46.228336	-105.69055	36	51.921	1.3271	9/28/1988	7/21/1992
WY	06426400	Donkey Creek near Moorcroft	46.384725	-105.84528	55	25.244	1.2241	9/29/1977	6/9/1981
WY	06426500	Belle Fourche River belowMoorcroft	45.426936	-105.40194	102	33.76	1.3454	2/10/1976	10/19/1999
SD	06436198	Whitewood Creek Above Vale	45.390268	-105.30471	213	6.145	1.988	1/6/1983	9/1/2005
SD	06437000	Belle Fourche River near Sturgis	45.541661	-105.52833	172	3.9414	2.0347	10/31/1955	11/14/2002
SD	06438000	Belle Fourche River near Elm Springs	45.933334	-105.39498	211	8.679	1.5985	10/10/1958	10/1/2002
SD	06440000	Missouri River at Pierre	46.430004	-105.30998	99	3.5547	0.878	5/5/1975	6/14/2000
SD	06440200	South Fork Bad River near Cottonwood	46.804729	-105.29388	40	210.74	1.3001	3/13/1989	6/19/1995
SD	06441110	Plum Creek belowHayes, Sd	46.850007	-105.32471	36	241.5	1.6536	9/21/1989	8/9/1995
SD	06441500	Bad River near Fort Pierre	46.421393	-104.76163	257	126.59	1.6205	3/26/1951	7/11/2005
SD	06445700	White River at Slim Butte, Sd	47.001399	-104.94247	89	79.348	1.6438	5/13/1964	8/18/1997
SD	06446000	White River near Oglala Sd	47.138067	-104.94497	88	453.93	1.4223	4/5/1950	8/18/1997
SD	06446200	White River near Rockyford Sd	47.121124	-104.66468	37	116.4	0.981	8/13/1964	5/26/1966
SD	06447000	White River near Kadoka	47.162235	-104.70274	126	483.84	1.504	10/5/1949	8/19/1997
SD	06449300	Little White River Abv Rosebud Sd	47.247237	-104.30466	46	15.196	1.8862	7/17/1983	9/4/2003
SD	06452000	White River near Oacoma	47.372237	-104.42995	364	88.291	1.6067	7/27/1972	8/15/2005
NE	06463720	Niobrara River at Mariaville	42.9028	-100.3611	24	0.2571	2.4944	9/23/1985	8/31/1989
WY	06644550	North Platte River at Casper	42.7869	-100.035	80	0.334	1.7398	10/5/1973	9/2/1982
WY	06652000	North Platte River at Orin	42.7514	-99.8458	98	0.0671	2.2862	10/12/1973	9/22/1982
WY	06670500	Laramie River near Fort Laramie	42.1202	-104.3216	105	3.1821	1.4475	10/3/1973	6/22/2005

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**Appendix B-v – Location of USGS gages with suspended-sediment data and transport rating relations for the Northern Glaciated Plains (Ecoregion 46).**

**ECOREGION 46 - THE NORTHERN GLACIATED PLAINS**

State	Gage number	Gage identification	Latitude	Longitude	Number of suspended sediment samples	Load Coefficient	Load Exponent	First sample	Last sample
ND	05058700	Sheyenne River at Lisbon	47.199112	-112.09639	39	1.7045	1.6446	5/6/1977	6/20/1995
ND	05064900	Beaver Creek near Finley	47.50245	-111.93249	78	2.8029	1.1321	10/31/1973	12/13/1995
ND	05099380	Pembina River near Vang	47.624957	-111.63554	66	12.89	1.4297	12/18/1973	9/26/1979
ND	05099400	Little South Pembina River near Walhalla	47.560791	-111.54136	78	17.06	1.6661	12/19/1973	8/21/1995
ND	05114000	Souris River near Sherwood	47.525791	-111.51192	61	2.6253	1.2439	4/16/1974	10/6/1981
ND	05116000	Souris River near Foxholm	47.58441	-111.06052	80	1.0064	1.0781	2/27/1974	9/4/1980
ND	05120000	Souris River near Verendrye	47.587189	-111.03191	92	1.5863	1.1904	10/18/1976	8/25/1986
ND	05122000	Souris River near Bantry	47.642467	-110.93357	30	1.4663	1.2081	12/5/1985	11/14/2000
ND	05123400	Willow Creek near Willow City	47.81747	-110.66716	12	1.0395	0.9241	3/25/1986	4/28/1989
ND	05123500	Stone Creek near Kramer	48.306371	-111.08053	24	2.8528	1.2356	3/28/1986	6/27/2000
ND	05123760	Deep River Below Cut Bank Creek near Upham	47.883006	-112.61198	1	-	-	-	-
ND	05123900	Boundary Creek near Landa	47.930241	-111.55276	23	1.7871	1.1707	3/26/1986	6/27/2000
ND	05124000	Souris River near Westhope	47.932472	-110.51438	139	2.1292	0.8409	10/17/1974	4/6/1994
SD	05291000	Whetstone River near Big Stone City	48.004973	-110.25771	495	5.3646	1.1308	10/2/1960	7/5/1988
SD	05292810	Labolt Impoundment Inlet at Labolt	48.044185	-106.35642	28	9.8304	1.5202	3/19/1980	6/22/1984
MN	05293000	Yellow Bank River near Odessa	48.301933	-109.84437	139	7.8077	1.1365	10/2/1960	6/29/1988
SD	05299670	West Branch Lac Qui Parle River near Gary	48.526663	-109.8416	29	6.6717	1.4362	3/4/1982	6/15/1984
MN	05299750	Florida Creek near Burr	48.031107	-108.53265	47	8.2864	1.48	3/17/1982	9/5/1984
MN	05304500	Chippewa River near Milan	48.363608	-108.35625	104	5.6458	1.1614	10/3/1960	8/13/1981
MN	05311000	Minnesota River at Montevideo	48.969467	-106.8395	61	2.9872	1.2464	8/15/1989	3/4/1993
MN	05311310	Dillon-Sylte Impoundment Inlet near Porter	48.129742	-106.36448	34	6.3658	1.1974	3/20/1980	6/15/1984
MN	05311320	Dillon-Sylte Impoundment Outlet near Porter	47.998906	-105.86723	28	2.7463	1.0246	3/20/1980	6/15/1984
ND	06467600	James River near Manfred	47.630846	-105.3286	32	0.7647	0.924	5/13/1985	7/26/1995
ND	06468170	James River near Grace City	47.901961	-105.21554	54	1.1549	0.9546	5/14/1985	8/29/1995
ND	06468250	James River above Arrowwood Lake near Kensal	48.990302	-105.69667	132	2.3755	0.9423	6/26/1985	9/6/2005
ND	06468500	James River near Pingree	48.873079	-105.49778	8	1.9983	0.7395	10/9/1986	4/4/2001

State	Gage number	Gage identification	Latitude	Longitude	Number of suspended sediment samples	Load Coefficient	Load Exponent	First sample	Last sample
ND	06470000	James River at Jamestown	48.9994	-105.4089	79	3.1172	0.9182	1/9/1985	8/31/1995
ND	06470500	James River at Lamoure	48.852246	-105.42138	135	4.4918	1.0465	10/5/1976	8/31/1995
ND	06470830	James River at Oakes	48.551412	-105.36582	14	5.0558	1.0045	4/1/1986	4/4/1989
ND	06470875	James River at Dakota Lake Dam near Ludden	49.000025	-106.36726	66	3.5098	0.9675	1/8/1985	8/30/1995
SD	06470980	James River near Hecla	48.550301	-105.42888	22	2.9857	1.0418	1/8/1985	4/4/1989
SD	06471000	James River at Columbia	48.170852	-105.17887	73	3.5199	0.8167	4/13/1979	8/18/1993
SD	06473000	James River at Ashton	48.672805	-104.51218	30	8.5399	0.8735	2/27/1985	7/19/1990
SD	06478500	James River near Scotland	47.746683	-104.3305	161	10.489	0.9956	10/8/1974	8/31/1995
SD	06479529	Stray Horse Creek near Castlewood	47.30333	-101.08932	30	9.4617	1.06	9/1/1970	6/4/1974
SD	06479640	Hidewood Creek near Estelline	43.064995	-98.553416	31	9.2064	0.9544	9/1/1970	7/10/1974
SD	06480000	Big Sioux River near Brookings	43.097771	-98.287856	43	8.8206	1.0086	9/1/1970	8/13/2003
SD	06481500	Skunk Creek at Sioux Falls	43.02555	-98.167854	35	9.8573	1.0564	9/3/1970	9/6/1974
MN	443636096095402	Dillon-Sylte Impoundment Inlet near Porter	42.861109	-98.140631	-	-	-	-	-
MN	443916096174801	Lac Qui Parle River (Lqp-8) near Canby	42.9403	-98.8417	45	4.898	1.25	3/17/1982	7/13/1984

**Appendix B-vi – Location of USGS gages with suspended-sediment data and transport rating relations for the Lake Agassiz Plain (Ecoregion 48).**

**ECOREGION 48 – LAKE AGASSIZ PLAIN**

State	Gage number	Gage identification	Latitude	Longitude	Number of suspended sediment samples	Load Coefficient	Load Exponent	First sample	Last sample
MN	05030150	Otter Tail River near Perham	46.642737	-95.604486	30	0.248	1.5042	4/1/1993	5/1/1996
ND	05051522	Red River of the North at Hickson	46.659685	-96.795915	81	1.9226	1.3047	11/3/1975	9/2/1999
ND	05053000	Wild Rice River near Abercrombie	46.468017	-96.783691	61	3.8254	1.1548	7/4/1975	7/7/1994
ND	05054020	Red River of the North below Fargo	46.930520	-96.785080	48	2.185	1.263	10/19/1973	9/20/1977
ND	05059000	Sheyenne River near Kindred	46.631633	-97.000643	104	3.1029	1.5119	7/3/1975	8/10/1995
MN	05062500	Wild Rice River at Twin Valley	47.266629	-96.244780	48	0.4908	1.9032	4/5/1993	3/19/2001
MN	05064000	Wild Rice River at Hendrum	47.268027	-96.797578	32	5.2306	1.2568	4/20/1979	4/17/2001
MN	05064500	Red River of the North at Halstad	47.351918	-96.843691	130	0.941	1.5858	4/11/1962	5/11/1995
MN	05079000	Red Lake River at Crookston	47.775527	-96.609510	110	0.9487	1.3205	4/11/1962	4/20/2001
ND	05082625	Turtle River at Turtle River State Park near Arvilla	47.931934	-97.514531	48	1.4356	1.6949	2/8/1993	7/12/2000
MN	05083500	Red River of the North at Olso	48.193873	-97.140628	49	0.4631	1.5486	10/17/1973	12/13/1977
MN	05085900	Snake River above Alvarado	48.174148	-96.998960	24	4.6354	1.3527	5/24/1993	4/20/1996
ND	05099600	Pembina River at Walhalla	48.913328	-97.917037	115	10.24	1.514	4/16/1974	8/21/1995
ND	05102490	Red River of the North at Pembina	48.973599	-97.241731	4	367.84	0.5387	7/19/1994	9/9/1999
MN	05061000	Buffalo River near Hawley	46.849960	-96.329509	403	0.1215	0.8519	3/22/1977	9/30/1978
MN	05061500	South Branch Buffalo River at Sabin	46.772184	-96.628132	371	1.9515	1.0055	3/21/1977	9/30/1978
MN	05062000	Buffalo River near Dilworth	46.961074	-96.661465	748	6.868	0.9694	3/30/1971	9/24/1981
MN	05087500	Middle River at Argyle	48.340255	-96.816450	307	2.6013	1.1741	3/25/1968	7/22/1970

**Appendix C-i – Rapid Geomorphic Assessment data for the Northern Rockies, Ecoregion 15.**

State	Gage number	Gage identification	Bed material	Bed or bank protection	Incision	Constriction	Streambank erosion		Streambank instability		Woody vegetative cover		Bank accretion		Stage of channel evolution	Channel stability index
							Left	Right	Left	Right	Left	Right	Left	Right		
ID	12318500	Kootenai River near Copeland	Sand/Silt	No	51-75%	0-10%	Fluvial	Mass Wasting	11-25%	51-75%	11-25%	26-50%	76-100%	76-100%	V	16
ID	12322000	Kootenai River at Porthill	Sand	No	76-100%	0-10%	Mass Wasting	Mass Wasting	51-75%	51-75%	26-50%	26-50%	76-100%	76-100%	V	16
MT	12363000	Flathead River at Columbia Falls	Cobble/gravel	No	26-50%	0-10%	None	None	0-10%	0-10%	11-25%	11-25%	76-100%	76-100%	VI	9
MT	12375800	Little Bitterroot River Near Perma	Sand/Silt	No	11-25%	11-25%	Mass Wasting	Mass Wasting	76-100%	76-100%	0-10%	0-10%	51-75%	51-75%	IV	25.5
MT	12376900	Crow Creek at Mouth near Ronan	Cobble/gravel	No	11-25%	26-50%	Fluvial	None	0-10%	0-10%	76-100%	51-75%	76-100%	76-100%	VI	10.5
MT	12379600	Mission Creek at National Bison Range at Moiese	Boulder/Cobble	Yes	26-50%	0-10%	Mass Wasting	Mass Wasting	11-25%	26-50%	11-25%	0-10%	26-50%	11-25%	V	17.5
MT	12388200	Jocko River at Dixon	Boulder/Cobble	No	26-50%	0-10%	Fluvial	None	0-10%	0-10%	76-100%	11-25%	51-75%	0-10%	VI	10.5
MT	12388700	Flathead River at Perma	Cobble/gravel	No	51-75%	26-50%	Fluvial	None	0-10%	0-10%	26-50%	11-25%	26-50%	51-75%	VI	12
ID	12391950	Clark Fork River below Cabinet Gorge Dam	Boulder/Cobble	No	26-50%	0-10%	Mass Wasting	Fluvial	11-25%	0-10%	0-10%	26-50%	76-100%	76-100%	VI	12
ID	12392000	Clark Fork at Whitehorse Rapids near Cabinet	Bedrock	Yes	26-50%	0-10%	None	None	0-10%	0-10%	26-50%	26-50%	76-100%	76-100%	VI	5.5
ID	12392660	Sand Creek near Sandpoint	Gravel	No	26-50%	0-10%	Mass Wasting	Mass Wasting	26-50%	11-25%	51-75%	26-50%	51-75%	51-75%	V	16
WA	12398600	Pend Oreille River at International Boundary	Boulder/Cobble	Yes	26-50%	0-10%	None	Fluvial	0-10%	0-10%	76-100%	26-50%	76-100%	76-100%	VI	6.5
WA	12400520	Columbia River at Northport	Cobble/gravel	No	51-75%	0-10%	None	None	0-10%	0-10%	51-75%	51-75%	76-100%	51-75%	VI	6.5
ID	12413000	Nf Coeur D Alene River at Enaville	Cobble/gravel	Yes	11-25%	11-25%	Fluvial	None	0-10%	0-10%	26-50%	51-75%	51-75%	76-100%	VI	10
ID	12413470	Sf Coeur D Alene River near Pinehurst	Gravel	Yes	26-50%	0-10%	Fluvial	Fluvial	0-10%	0-10%	11-25%	26-50%	26-50%	26-50%	VI	12
ID	12413500	Coeur D Alene River near Cataldo	Gravel	Yes	26-50%	26-50%	Fluvial	Mass Wasting	0-10%	0-10%	26-50%	51-75%	0-10%	26-50%	I	13.5
ID	12416000	Hayden Creek below North Fork near Hayden Lake	Cobble/gravel	Yes	26-50%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	76-100%	76-100%	I	3.5
ID	12419000	Spokane River near Post Falls	Bedrock	Yes	51-75%	0-10%	None	None	0-10%	0-10%	11-25%	0-10%	26-50%	0-10%	VI	9
ID	13340600	Nf Clearwater River near Canyon Ranger Station	Boulder/Cobble	No	51-75%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	51-75%	76-100%	VI	5

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**Appendix C-ii – Rapid Geomorphic Assessment data for the Middle Rockies, Ecoregion 17.**

State	Gage number	Gage identification	Bed material	Bed or bank protection	Incision	Constriction	Streambank erosion		Streambank instability		Woody vegetative cover		Bank accretion		Stage of channel evolution	Channel stability index
							Left	Right	Left	Right	Left	Right	Left	Right		
MT	06037500	Madison River near West Yellowstone	Boulder/Cobble	No	26-50%	0-10%	Fluvial	Fluvial	11-25%	0-10%	0-10%	0-10%	0-10%	0-10%	I	14.5
MT	06038500	Madison River below Hebgen Lake near Grayling	Boulder/Cobble	No	51-75%	0-10%	None	None	0-10%	0-10%	0-10%	0-10%	0-10%	0-10%	III	13
MT	06041000	Madison River below Ennis Lake near McAllister	Boulder/Cobble	No	76-100%	0-10%	None	None	0-10%	0-10%	51-75%	76-100%	0-10%	0-10%	I	6.5
MT	06054500	Missouri River at Toston	Boulder/Cobble	No	26-50%	0-10%	Fluvial	None	0-10%	0-10%	0-10%	0-10%	26-50%	26-50%	VI	12.5
MT	06154410	Little Peoples Creek near Hays	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WY	06188000	Lamar River near Tower Ranger Station	Boulder/Cobble	No	26-50%	0-10%	Fluvial	Fluvial	0-10%	0-10%	26-50%	11-25%	76-100%	76-100%	I	8.5
MT	06191500	Yellowstone River at Corwin Springs	Boulder/Cobble	No	26-50%	0-10%	Mass Wasting	Mass Wasting	26-50%	26-50%	0-10%	0-10%	26-50%	26-50%	V	19
MT	06192500	Yellowstone River near Livingston	Boulder/Cobble	No	51-75%	0-10%	Mass Wasting	Mass Wasting	26-50%	26-50%	0-10%	0-10%	11-25%	0-10%	V	19.5
WY	06220500	East Fork Wind River near Dubois	Boulder/Cobble	1 Bank	26-50%	11-25%	Mass Wasting	Mass Wasting	26-50%	51-75%	26-50%	11-25%	26-50%	26-50%	V	20
WY	06279790	Jones Creek at Mouth, near Pahaska	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WY	06279795	Crow Creek at Mouth, at Pahaska	Boulder/Cobble	No	26-50%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	0-10%	0-10%	I	8
WY	06280300	South Fork Shoshone River near Valley	Boulder/Cobble	1 Bank	11-25%	0-10%	Mass Wasting	Mass Wasting	26-50%	26-50%	11-25%	11-25%	11-25%	11-25%	V	21
SD	06409000	Castle Creek above Deerfield Res near Hill City	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SD	06436180	Whitewood Creek above Whitewood	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WY	09188500	Green River at Warren Bridge, near Daniel	Boulder/Cobble	No	26-50%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	76-100%	51-75%	I	4.5
WY	09196500	Pine Creek above Fremont Lake	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WY	09203000	East Fork River near Big Sandy	Boulder/Cobble	No	51-75%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	51-75%	76-100%	I	3.5
WY	09208000	La Barge Creek near La Barge Meadows Ranger Station	Boulder/Cobble	No	76-100%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	51-75%	51-75%	I	3
WY	09212500	Big Sandy R at Leckie Ranch, near Big Sandy	Boulder/Cobble	No	26-50%	0-10%	None	None	0-10%	0-10%	26-50%	26-50%	51-75%	76-100%	I	6.5
WY	09223000	Hams Fork Below Pole Creek, near Frontier	Boulder/Cobble	No	26-50%	0-10%	Mass Wasting	Mass Wasting	26-50%	26-50%	26-50%	51-75%	51-75%	26-50%	V	16
MT	12323230	Blacktail Creek at Harrison Avenue at Butte	Sand	No	26-50%	0-10%	Fluvial	Fluvial	11-25%	11-25%	76-100%	26-50%	26-50%	26-50%	VI	13.5
MT	12323250	Silver Bow Creek below Blacktail Creek at Butte	Gravel	2 Banks	11-25%	0-10%	None	None	0-10%	0-10%	26-50%	0-10%	26-50%	26-50%	VI	14.5
MT	12323600	Silver Bow Creek at Opportunity	Cobble/gravel	No	51-75%	0-10%	Fluvial	Fluvial	0-10%	0-10%	11-25%	11-25%	51-75%	51-75%	VI	11
MT	12323750	Silver Bow Creek at Warm Springs	Cobble/gravel	No	51-75%	0-10%	Fluvial	Fluvial	0-10%	0-10%	51-75%	0-10%	76-100%	76-100%	VI	9.5
MT	12323770	Warm Springs Creek at Warm Springs	Gravel	2 Banks	26-50%	0-10%	Fluvial	Fluvial	0-10%	0-10%	76-100%	76-100%	26-50%	26-50%	VI	12.5
MT	12323800	Clark Fork near Galen	Cobble/gravel	No	51-75%	11-25%	Fluvial	Fluvial	0-10%	0-10%	51-75%	51-75%	76-100%	76-100%	I	7.5
MT	12324200	Clark Fork at Deer Lodge	Cobble/gravel	1 Bank	26-50%	11-25%	Fluvial	Fluvial	0-10%	0-10%	11-25%	51-75%	51-75%	51-75%	VI	13
MT	12324590	Little Blackfoot River near Garrison	Cobble/gravel	No	51-75%	0-10%	Fluvial	Fluvial	0-10%	11-25%	51-75%	11-25%	76-100%	76-100%	VI	9.5
MT	12324680	Clark Fork at Goldcreek	Cobble/gravel	No	11-25%	0-10%	Fluvial	Fluvial	0-10%	0-10%	76-100%	76-100%	76-100%	76-100%	VI	9
MT	12331500	Flint Creek near Drummond	Cobble/gravel	2 Banks	26-50%	11-25%	Fluvial	Fluvial	0-10%	0-10%	76-100%	76-100%	76-100%	76-100%	I	9.5
MT	12331800	Clark Fork near Drummond	Gravel	1 Bank	26-50%	0-10%	Fluvial	None	11-25%	0-10%	11-25%	76-100%	11-25%	76-100%	VI	12
MT	12334510	Rock Creek near Clinton	Boulder/Cobble	Yes	51-75%	11-25%	Fluvial	Fluvial	0-10%	0-10%	76-100%	26-50%	51-75%	51-75%	I	7
MT	12334550	Clark Fork at Turah Bridge near Bonner	FALSE	No	26-50%	11-25%	None	None	0-10%	0-10%	51-75%	76-100%	76-100%	26-50%	VI	8.5
MT	12335500	Nevada Creek above reservoir, near Helmville	Gravel	No	51-75%	0-10%	None	None	0-10%	0-10%	0-10%	0-10%	76-100%	76-100%	VI	9.5
MT	12340000	Blackfoot River near Bonner	Boulder/Cobble	No	11-25%	0-10%	None	Fluvial	0-10%	11-25%	76-100%	76-100%	76-100%	76-100%	VI	8
MT	12340500	Clark Fork above Missoula	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MT	12353000	Clark Fork below Missoula	Gravel	No	51-75%	0-10%	None	Mass Wasting	0-10%	51-75%	76-100%	26-50%	76-100%	76-100%	V	11.5
WY	13010065	Snake River above Jackson Lake at Flagg Ranch	Boulder/Cobble	No	11-25%	0-10%	Mass Wasting	Mass Wasting	51-75%	11-25%	0-10%	0-10%	0-10%	51-75%	V	20.5
WY	13011500	Pacific Creek at Moran	Boulder/Cobble	1 Bank	26-50%	0-10%	Mass Wasting	Mass Wasting	26-50%	26-50%	0-10%	0-10%	0-10%	11-25%	V	21.5
WY	13013650	Snake River at Moose	Boulder/Cobble	No	51-75%	0-10%	Mass Wasting	Mass Wasting	26-50%	26-50%	26-50%	26-50%	11-25%	76-100%	V	15.5
WY	13018300	Cache Creek near Jackson	Gravel	Yes	51-75%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	0-10%	0-10%	I	7
WY	13019430	Granite Creek near Bondurant	Boulder/Cobble	No	26-50%	0-10%	Fluvial	Mass Wasting	0-10%	11-25%	76-100%	51-75%	26-50%	26-50%	I	10
WY	13019438	Little Granite Creek at Mouth near Bondurant	Boulder/Cobble	No	26-50%	0-10%	Fluvial	Fluvial	0-10%	0-10%	76-100%	76-100%	51-75%	51-75%	I	7
WY	13022500	Snake River above Reservoir near Alpine	Boulder/Cobble	No	76-100%	0-10%	Mass Wasting	None	11-25%	0-10%	51-75%	76-100%	76-100%	76-100%	VI	6.5
WY	13027500	Salt River above Reservoir near Etna	Cobble/gravel	No	26-50%	0-10%	Mass Wasting	None	0-10%	0-10%	0-10%	11-25%	76-100%	76-100%	I	10
ID	13120500	Big Lost River at Howell Ranch near Chilly	Cobble/gravel	No	26-50%	0-10%	Mass Wasting	Fluvial	0-10%	0-10%	51-75%	76-100%	11-25%	0-10%	VI	13
MT	464810112490001	Nevada Creek below Reservoir near Helmville	Sand	2 Banks	26-50%	11-25%	Mass Wasting	Mass Wasting	26-50%	26-50%	0-10%	0-10%	51-75%	51-75%	V	23

**Appendix C-iii – Rapid Geomorphic Assessment data for the Northwest Glaciated Plains, Ecoregion 42.**

State	Gage number	Gage identification	Bed material	Bed or bank protection	Incision	Constriction	Streambank erosion		Streambank instability		Woody vegetative cover		Bank accretion		Stage of channel evolution	Channel stability index
							Left	Right	Left	Right	Left	Right	Left	Right		
MT	06073500	Dearborn River near Craig	Boulder/Cobble	2 Banks	51-75%	0-10%	None	Fluvial	11-25%	0-10%	0-10%	0-10%	0-10%	51-75%	VI	14.5
MT	06085800	Sun River at Simms	Boulder/Cobble	No	51-75%	0-10%	None	Mass Wasting	0-10%	76-100%	51-75%	11-25%	76-100%	0-10%	V	14
MT	06088300	Muddy Creek near Vaughn	Sand	Yes	51-75%	0-10%	None	Mass Wasting	0-10%	51-75%	0-10%	0-10%	76-100%	0-10%	V	16.5
MT	06088500	Muddy Creek at Vaughn	Sand	No	51-75%	0-10%	None	Mass Wasting	0-10%	76-100%	0-10%	11-25%	26-50%	0-10%	V	18.5
MT	06089000	Sun River near Vaughn	Bedrock	No	76-100%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	0-10%	0-10%	I	5
MT	06090300	Missouri River near Great Falls	Boulder/Cobble	1 Bank	0-10%	0-10%	None	None	0-10%	0-10%	0-10%	0-10%	76-100%	76-100%	II	12
MT	06090610	Belt Creek near Portage	Boulder/Cobble	No	76-100%	0-10%	None	None	11-25%	0-10%	26-50%	0-10%	76-100%	76-100%	VI	7
MT	06090720	Highwood Creek near Portage	Boulder/Cobble	No	51-75%	0-10%	None	Mass Wasting	0-10%	76-100%	0-10%	0-10%	76-100%	0-10%	V	16
MT	06090800	Missouri River at Fort Benton	Boulder/Cobble	No	51-75%	0-10%	None	Mass Wasting	0-10%	51-75%	26-50%	26-50%	76-100%	11-25%	V	13
MT	06101500	Marias River near Chester	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MT	06102500	Teton River below South Fork near Choteau	Boulder/Cobble	No	51-75%	0-10%	None	Fluvial	0-10%	26-50%	26-50%	26-50%	76-100%	26-50%	VI	9.5
MT	06108000	Teton River near Dutton	Sand	No	51-75%	0-10%	None	Mass Wasting	0-10%	51-75%	0-10%	0-10%	76-100%	11-25%	V	17
MT	06108800	Teton River at Loma	Gravel	No	76-100%	0-10%	None	None	0-10%	26-50%	0-10%	0-10%	76-100%	26-50%	VI	10.5
MT	06109500	Missouri River at Virgelle	Boulder/Cobble	No	26-50%	0-10%	None	None	0-10%	11-25%	11-25%	0-10%	76-100%	76-100%	VI	9.5
MT	06132000	Missouri River below Fort Peck Dam	Sand	No	76-100%	0-10%	None	None	0-10%	11-25%	51-75%	26-50%	76-100%	51-75%	VI	8
MT	06137570	Boxelder Creek near Rocky Boy	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MT	06139500	Big Sandy Creek near Havre	Sand	Yes	51-75%	0-10%	None	None	0-10%	11-25%	0-10%	11-25%	76-100%	76-100%	VI	9.5
MT	06154430	Lodge Pole Creek at Lodge Pole	Silt/Clay	No	76-100%	26-50%	None	None	0-10%	0-10%	76-100%	76-100%	76-100%	76-100%	I	7
MT	06154550	Peoples Creek below Kuhr Coulee near Dodson	Silt/Clay	No	76-100%	26-50%	None	None	11-25%	11-25%	0-10%	0-10%	51-75%	51-75%	VI	14.5
MT	06169500	Rock Creek below Horse Creek near Int Bndry	Sand	No	76-100%	0-10%	None	Mass Wasting	0-10%	51-75%	0-10%	0-10%	76-100%	11-25%	V	16
MT	06174500	Milk River at Nashua	Silt/Clay	No	11-25%	0-10%	Fluvial	Fluvial	26-50%	11-25%	11-25%	0-10%	11-25%	0-10%	III	20.5
MT	06175540	Prairie Elk Creek near Oswego	Gravel	No	76-100%	0-10%	None	Mass Wasting	0-10%	26-50%	0-10%	0-10%	76-100%	26-50%	V	14
MT	06177650	Redwater River near Richey	Sand	No	76-100%	0-10%	None	None	0-10%	0-10%	0-10%	0-10%	76-100%	76-100%	I	8
MT	06177825	Redwater River near Vida	Sand	No	26-50%	0-10%	None	Mass Wasting	0-10%	76-100%	0-10%	0-10%	76-100%	11-25%	V	15.5
MT	06178000	Poplar River at International Boundary	Sand	Yes	76-100%	51-75%	None	None	11-25%	0-10%	0-10%	0-10%	76-100%	76-100%	II	11.5
MT	06178150	Poplar River near Scobey	Sand	Yes	26-50%	51-75%	None	Mass Wasting	0-10%	51-75%	0-10%	0-10%	76-100%	51-75%	II	17
MT	06178500	East Poplar River at International Bndry	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MT	06179000	East Fork Poplar River near Scobey	Silt/Clay	No	11-25%	11-25%	None	None	11-25%	0-10%	0-10%	0-10%	76-100%	76-100%	VI	15
MT	06179200	Poplar River ab West Fork near Bredette	Gravel	Yes	76-100%	26-50%	None	Mass Wasting	76-100%	0-10%	0-10%	0-10%	76-100%	0-10%	II	15
MT	06179500	West Fork Poplar River at International	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MT	06180400	West Fork Poplar River near Bredette	Sand/Gravel	Yes	76-100%	11-25%	None	Mass Wasting	0-10%	26-50%	0-10%	0-10%	76-100%	26-50%	V	14.5
MT	06181000	Poplar River near Poplar	Sand/Gravel	No	26-50%	0-10%	Mass Wasting	None	51-75%	0-10%	0-10%	0-10%	11-25%	76-100%	V	17.5
MT	06183450	Big Muddy Creek near Antelope	Sand/silt	No	76-100%	0-10%	None	None	0-10%	0-10%	11-25%	0-10%	76-100%	76-100%	VI	9.5
MT	06329540	Lone Tree Creek near Sidney	Sand	No	76-100%	0-10%	None	None	0-10%	0-10%	0-10%	0-10%	0-10%	0-10%	I	12
ND	06340930	Buffalo Creek near Washburn	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SD	06453000	Missouri River at Fort Randall Dam	-	-	-	-	-	-	-	-	-	-	-	-	II	-
SD	06453200	Choteau Creek near Wagner	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SD	06453252	Choteau Creek near Dante	Gravel	No	26-50%	11-25%	None	Mass Wasting	0-10%	76-100%	51-75%	11-25%	76-100%	0-10%	V	17
SD	06453300	Choteau Creek Below Avon	Sand	No	26-50%	0-10%	Fluvial	Mass Wasting	26-50%	76-100%	0-10%	0-10%	76-100%	0-10%	V	21
NE	06453500	Ponca Creek at Anoka	Sand	No	11-25%	0-10%	None	Mass Wasting	11-25%	76-100%	11-25%	0-10%	76-100%	0-10%	V	20
NE	06465500	Niobrara River near Verdel	Sand	No	11-25%	0-10%	None	Mass Wasting	0-10%	51-75%	76-100%	0-10%	76-100%	0-10%	V	17.5



**Appendix C-iv – Rapid Geomorphic Assessment data for the Northwestern Great Plains, Ecoregion 43.**

State	Gage number	Gage identification	Bed material	Bed or bank protection	Incision	Constriction	Streambank erosion		Streambank instability		Woody vegetative cover		Bank accretion		Stage of channel evolution	Channel stability index
							Left	Right	Left	Right	Left	Right	Left	Right		
MT	06075700	Nf Smith River near Mouth near White Sulphur Springs	Boulder/Cobble	No	76-100%	0-10%	Mass Wasting	Fluvial	51-75%	11-25%	26-50%	51-75%	11-25%	51-75%	V	13.5
MT	06075800	Sf Smith River at Mouth near White Sulphur Springs	Sand	No	51-75%	11-25%	None	Fluvial	0-10%	26-50%	0-10%	0-10%	76-100%	26-50%	VI	14.5
MT	06075900	Big Birch Creek at Mouth near White Sulphur Springs	Bedrock	1 bank, no bed	76-100%	0-10%	None	None	11-25%	11-25%	51-75%	51-75%	76-100%	76-100%	I	5
MT	06076550	Newlan Creek at Mouth near White Sulphur Springs	Sand	No	51-75%	0-10%	Mass Wasting	None	76-100%	11-25%	0-10%	11-25%	0-10%	51-75%	V	18.5
MT	06076600	Camas Creek at Mouth near White Sulphur Springs	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MT	06076650	Benton Gulch at Mouth near White Sulphur Sps	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MT	06076690	Smith River near Ft Logan	Sand	No	76-100%	0-10%	None	None	0-10%	11-25%	0-10%	0-10%	76-100%	76-100%	VI	10
MT	06077090	Sheep Creek near Mouth near White Sulphur Springs	Boulder/Cobble	No	76-100%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	51-75%	76-100%	I	2.5
MT	06115200	Missouri River near Landusky	Sand	No	51-75%	0-10%	None	Mass Wasting	0-10%	76-100%	0-10%	0-10%	76-100%	0-10%	V	18
MT	06120500	Musselshell River at Harlowton	Boulder/Cobble	No	76-100%	0-10%	None	Mass Wasting	51-75%	0-10%	11-25%	0-10%	76-100%	11-25%	V	13.5
MT	06126470	Halfbreed Creek near Klein	Silt/Clay	No	51-75%	0-10%	None	None	0-10%	0-10%	0-10%	0-10%	76-100%	76-100%	I	10
MT	06126500	Musselshell River near Roundup	Silt/Clay	No	26-50%	0-10%	None	None	0-10%	11-25%	51-75%	26-50%	76-100%	51-75%	VI	11
MT	06127160	West Parrot Creek near Roundup	Sand	No	76-100%	0-10%	None	None	0-10%	0-10%	0-10%	0-10%	76-100%	76-100%	I	8
MT	06127300	Fattig Creek near Delphia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MT	06127500	Musselshell River at Musselshell	Silt/Clay	No	26-50%	0-10%	None	None	0-10%	0-10%	51-75%	76-100%	76-100%	76-100%	II	8.5
MT	06130500	Musselshell River at Mosby	Boulder/Cobble	No	51-75%	0-10%	Mass Wasting	Fluvial	51-75%	11-25%	0-10%	0-10%	11-25%	76-100%	V	16.5
MT	06131120	Timber Creek near Van Norman	Silt/Clay	No	51-75%	26-50%	Fluvial	None	0-10%	0-10%	0-10%	0-10%	76-100%	76-100%	VI	14.5
MT	06131200	Nelson Creek near Van Norman	Silt/Clay	No	76-100%	0-10%	None	None	0-10%	11-25%	0-10%	0-10%	76-100%	76-100%	VI	11
MT	06177500	Redwater River at Circle	Silt/Clay	Yes	51-75%	76-100%	Mass Wasting	None	51-75%	0-10%	0-10%	0-10%	0-10%	0-10%	V	23.5
MT	06177520	Horse Creek near Circle	Silt/Clay	No	76-100%	0-10%	None	None	0-10%	0-10%	0-10%	0-10%	0-10%	0-10%	I	13
MT	06185150	Hardscrabble Creek near Culbertson	Sand	No	51-75%	0-10%	None	None	0-10%	11-25%	0-10%	0-10%	76-100%	76-100%	VI	11
MT	06185500	Missouri River near Culbertson	Sand	No	76-100%	0-10%	None	Mass Wasting	11-25%	76-100%	0-10%	0-10%	76-100%	11-25%	V	17
MT	06195600	Shields River near Livingston	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MT	06197500	Boulder River near Contact	Boulder/Cobble	2 banks, no bed	51-75%	0-10%	None	None	0-10%	0-10%	51-75%	51-75%	76-100%	76-100%	I	7
MT	06200000	Boulder River at Big Timber	Boulder/Cobble	3 banks, no bed	76-100%	0-10%	None	None	11-25%	0-10%	51-75%	76-100%	76-100%	76-100%	VI	7.5
MT	06202530	Stillwater River above West Fork at Nye	Boulder/Cobble	No	76-100%	0-10%	None	None	11-25%	11-25%	76-100%	76-100%	76-100%	76-100%	I	3
MT	06202598	West Fk Stillwater River below Castle Creek near Nye	Boulder/Cobble	No	76-100%	0-10%	None	None	0-10%	0-10%	51-75%	51-75%	76-100%	76-100%	I	3
MT	06204220	Butcher Creek near Luther	Sand	No	76-100%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	76-100%	76-100%	I	4
MT	06204240	Butcher Creek near Roscoe	Boulder/Cobble	No	0-10%	0-10%	None	Mass Wasting	11-25%	76-100%	76-100%	0-10%	51-75%	11-25%	V	17.5
MT	06204260	Butcher Creek near Fishtail	Sand	Yes	26-50%	11-25%	Mass Wasting	Fluvial	76-100%	11-25%	26-50%	26-50%	11-25%	51-75%	V	18.5
MT	06205000	Stillwater River near Absarokee	Boulder/Cobble	1 bank, no bed	76-100%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	76-100%	76-100%	VI	5.5
MT	06205200	Yellowstone River at Laurel	Sand	No	51-75%	0-10%	Fluvial	Mass Wasting	11-25%	51-75%	51-75%	51-75%	51-75%	26-50%	V	15.5
MT	06207700	North Fork Bluewater Creek Bridger	Sand	No	26-50%	0-10%	None	Fluvial	0-10%	0-10%	76-100%	76-100%	0-10%	0-10%	I	11
MT	06207850	Bluewater Creek at Sanford Ranch near Bridger	Sand	No	51-75%	0-10%	None	Mass Wasting	0-10%	76-100%	51-75%	11-25%	26-50%	0-10%	V	17
MT	06207870	Bluewater Creek near Fromberg	Gravel	No	26-50%	0-10%	Fluvial	Fluvial	0-10%	26-50%	11-25%	26-50%	26-50%	0-10%	V	16.5
MT	06207900	Bluewater Creek at Fromberg	Gravel	No	26-50%	0-10%	Fluvial	Fluvial	0-10%	11-25%	26-50%	26-50%	26-50%	11-25%	VI	13.5
MT	06208500	Clarks Fork Yellowstone River at Edgar	Boulder/Cobble	No	26-50%	0-10%	None	Mass Wasting	0-10%	51-75%	76-100%	11-25%	76-100%	11-25%	V	13.5
MT	06214500	Yellowstone River at Billings	Boulder/Cobble	1 bank, no bed	51-75%	0-10%	None	Fluvial	0-10%	11-25%	26-50%	51-75%	76-100%	76-100%	VI	9.5
MT	06217500	Yellowstone River at Huntley	Boulder/Cobble	No	26-50%	0-10%	Mass Wasting	Mass Wasting	76-100%	76-100%	0-10%	26-50%	0-10%	0-10%	III	21
MT	06288200	Beauvais Creek near St. Xavier	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MT	06289000	Little Bighorn River at State Line near Wyola	Boulder/Cobble	No	26-50%	0-10%	None	None	0-10%	0-10%	76-100%		26-50%	26-50%	I	6
MT	06289500	Little Bighorn River near Wyola	Boulder/Cobble	No	51-75%	0-10%	None	Fluvial	0-10%	26-50%	76-100%	26-50%	76-100%	0-10%	VI	9.5
MT	06290500	Little Bighorn River below Pass Creek near Wyola	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MT	06294000	Little Bighorn River near Hardin	Gravel	No	26-50%	0-10%	None	Mass Wasting	0-10%	76-100%	76-100%	0-10%	76-100%	11-25%	V	15.5
MT	06294500	Bighorn River above Tullock Creek near Bighorn	-	-	-	-	-	-	-	-	-	-	-	-	V	-
MT	06294700	Bighorn River at Bighorn	Sand	No	26-50%	0-10%	None	Mass Wasting	0-10%	51-75%	76-100%	26-50%	76-100%	11-25%	V	15
MT	06294840	Yellowstone River at Myers	Gravel	No	26-50%	0-10%	None	Mass Wasting	0-10%	76-100%	76-100%	0-10%	76-100%	11-25%	V	15.5
MT	06294920	East Fork Sarpy Creek near Colstrip	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MT	06294940	Sarpy Creek near Hysham	Silt/Clay	No	0-10%	0-10%	Fluvial	Mass Wasting	11-25%	51-75%	11-25%	11-25%	0-10%	0-10%	IV	25
MT	06294980	East Fork Armells Creek near Colstrip	Silt/Clay	No	51-75%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	76-100%	76-100%	I	6



State	Gage number	Gage identification	Bed material	Bed or bank protection	Incision	Constriction	Streambank erosion		Streambank instability		Woody vegetative cover		Bank accretion		Stage of channel evolution	Channel stability index
							Left	Right	Left	Right	Left	Right	Left	Right		
MT	06326200	Mizpah Creek near Volborg	-	-	-	-	-	-	-	-	-	-	-	-	V	-
MT	06326300	Mizpah Creek near Mizpah	Gravel	No	11-25%	0-10%	None	Mass Wasting	0-10%	76-100%	51-75%	0-10%	76-100%	0-10%	V	17.5
MT	06326500	Powder River near Locate	Sand	No	11-25%	0-10%	None	Mass Wasting	0-10%	76-100%	26-50%	0-10%	76-100%	0-10%	V	19
MT	06326530	Yellowstone River near Terry	Gravel	No	76-100%	0-10%	None	None	11-25%	11-25%	0-10%	26-50%	0-10%	0-10%	VI	12.5
MT	06326555	Cherry Creek near Terry	Gravel	2 Banks	76-100%	26-50%	None	None	0-10%	26-50%	0-10%	0-10%	76-100%	0-10%	VI	15.5
MT	06326600	O'Fallon Creek near Ismay	Sand	No	51-75%	0-10%	Fluvial	Fluvial	0-10%	26-50%	51-75%	26-50%	26-50%	11-25%	VI	13.5
MT	06326953	Clear Creek near Hoyt	Sand	No	76-100%	0-10%	None	None	0-10%	0-10%	0-10%	0-10%	0-10%	0-10%	I	12
MT	06326995	Upper Sevenmile Creek near Lindsay	Gravel	No	76-100%	0-10%	None	None	0-10%	0-10%	0-10%	0-10%	0-10%	0-10%	I	11
MT	06327850	Glendive Creek near Glendive	Sand	2 Banks	26-50%	0-10%	None	Fluvial	0-10%	11-25%	0-10%	0-10%	51-75%	51-75%	VI	16
MT	06328000	Deer Creek near Glendive	Silt/Clay	No	11-25%	0-10%	None	None	26-50%	26-50%	0-10%	0-10%	0-10%	0-10%	III	20
MT	06329000	Cottonwood Creek near Intake	Silt/Clay	No	51-75%	0-10%	None	None	11-25%	0-10%	0-10%	0-10%	76-100%	76-100%	VI	12
MT	06329200	Burns Creek near Savage	Sand	No	76-100%	11-25%	Fluvial	None	11-25%	0-10%	0-10%	0-10%	0-10%	0-10%	I	14.5
MT	06329500	Yellowstone River near Sidney	Sand	No	26-50%	0-10%	Mass Wasting	None	51-75%	0-10%	11-25%	51-75%	11-25%	76-100%	V	16
ND	06330000	Missouri River near Williston	Sand	No	51-75%	0-10%	Mass Wasting	Mass Wasting	76-100%	76-100%	51-75%	51-75%	51-75%	51-75%	V	18
ND	06331570	Stony Creek near Williston	Silt/Clay	2 Banks	0-10%	0-10%	Mass Wasting	Mass Wasting	76-100%	76-100%	11-25%	51-75%	0-10%	0-10%	IV	29
ND	06331850	Beaver Creek near Ray	Gravel	No	76-100%	0-10%	None	Mass Wasting	0-10%	51-75%	76-100%	26-50%	0-10%	0-10%	V	14.5
ND	06332515	Bear Den Creek near Mandaree	Silt/Clay	No	76-100%	0-10%	None	None	0-10%	0-10%	26-50%	51-75%	76-100%	76-100%	I	6.5
ND	06335500	Little Missouri River at Marmarth	Sand/Gravel	No	26-50%	0-10%	Fluvial	None	26-50%	0-10%	26-50%	51-75%	11-25%	76-100%	VI	12
ND	06335750	Deep Creek near Amidon	Silt/Clay	No	11-25%	0-10%	Mass Wasting	Mass Wasting	51-75%	51-75%	11-25%	11-25%	0-10%	0-10%	IV	26
ND	06336000	Little Missouri River at Medora	Gravel	No	26-50%	0-10%	Fluvial	Fluvial	0-10%	0-10%	51-75%	51-75%	76-100%	51-75%	VI	10
MT	06336500	Beaver Creek at Wibaux	Sand	No	76-100%	0-10%	None	None	11-25%	0-10%	26-50%	51-75%	76-100%	76-100%	VI	7.5
MT	06336510	Hay Creek No. 2 near Wibaux	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MT	06336515	Hay Creek near Wibaux	Silt/Clay	No	76-100%	11-25%	None	Mass Wasting	0-10%	51-75%	0-10%	11-25%	51-75%	11-25%	V	18
MT	06336545	Little Beaver Creek near Wibaux 15-60-14Bbb	Sand	No	51-75%	0-10%	None	Mass Wasting	0-10%	51-75%	0-10%	0-10%	76-100%	0-10%	V	17.5
ND	06336600	Beaver Creek near Trotters	Sand	No	26-50%	0-10%	Fluvial	Fluvial	0-10%	0-10%	0-10%	11-25%	0-10%	0-10%	III	17.5
ND	06337000	Little Missouri River near Watford City	Sand	No	26-50%	0-10%	Mass Wasting	Fluvial	51-75%	26-50%	51-75%	51-75%	11-25%	76-100%	V	17
ND	06338490	Missouri River at Garrison Dam	-	-	-	-	-	-	-	-	-	-	-	-	II	-
ND	06339100	Knife River at Manning	Silt/Clay	No	26-50%	0-10%	Fluvial	None	11-25%	0-10%	51-75%	76-100%	0-10%	0-10%	I	13
ND	06339300	Knife River at Marshall	Silt/Clay	No	0-10%	0-10%	Mass Wasting	Mass Wasting	76-100%	76-100%	0-10%	11-25%	0-10%	0-10%	IV	28.5
ND	06339500	Knife River near Golden Valley	Silt/Clay	No	0-10%	0-10%	Mass Wasting	Mass Wasting	76-100%	76-100%	26-50%	26-50%	0-10%	0-10%	IV	27
ND	06339550	Coyote Creek near Zap	Gravel	No	51-75%	0-10%	None	Mass Wasting	0-10%	51-75%	11-25%	0-10%	76-100%	11-25%	V	15.5
ND	06339560	Brush Creek near Beulah	Silt/Clay	No	76-100%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	76-100%	76-100%	VI	6.5
ND	06339800	Spring Creek below Lake Ilo near Dunn Center	Sand	No	26-50%	0-10%	None	None	0-10%	0-10%	11-25%	11-25%	0-10%	0-10%	VI	14.5
ND	06339900	Spring Creek near Halliday	Gravel	No bed, 1 bank	11-25%	0-10%	Mass Wasting	Mass Wasting	51-75%	51-75%	0-10%	11-25%	0-10%	0-10%	IV	26.5
ND	06340000	Spring Creek at Zap	Gravel	No	26-50%	0-10%	None	Mass Wasting	51-75%	0-10%	11-25%	26-50%	0-10%	51-75%	V	16.5
ND	06340500	Knife River at Hazen	Sand	No	11-25%	0-10%	Fluvial	Mass Wasting	26-50%	51-75%	11-25%	26-50%	11-25%	0-10%	V	21.5
ND	06340520	Antelope Creek Above Hazen	Silt/Clay	No	26-50%	11-25%	None	None	11-25%	11-25%	51-75%	51-75%	0-10%	0-10%	VI	15.5
ND	06340524	West Branch Antelope Creek No. 5 near Zap	Silt/Clay	No	76-100%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	76-100%	76-100%	I	5
ND	06340528	West Branch Antelope Creek No. 4 near Zap	Silt/Clay	No	76-100%	0-10%	None	None	0-10%	0-10%	51-75%	51-75%	76-100%	76-100%	I	6
ND	06340536	West Branch Antelope Creek NO. 2 near Beulah	Silt/Clay	No	11-25%	0-10%	None	Fluvial	0-10%	26-50%	76-100%	26-50%	51-75%	0-10%	V	16.5
ND	06340580	Coal Creek near Stanton	Silt/Clay	No	26-50%	0-10%	Fluvial	Fluvial	0-10%	11-25%	51-75%	51-75%	11-25%	0-10%	III	16
ND	06340780	Alderin Creek near Fort Clark	Sand	No	0-10%	0-10%	Mass Wasting	Mass Wasting	76-100%	76-100%	0-10%	0-10%	0-10%	0-10%	IV	28
ND	06342200	Square Butte Creek above Nelson Lake near Center	Sand	No	76-100%	0-10%	Fluvial	Fluvial	0-10%	0-10%	51-75%	51-75%	26-50%	51-75%	VI	10
ND	06342230	Hagel Creek near Center	Sand/silt	No	26-50%	0-10%	None	Fluvial	0-10%	0-10%	76-100%	26-50%	51-75%	11-25%	VI	12
ND	06342500	Missouri River at Bismarck	Sand	No bed, 1 bank	51-75%	0-10%	None	Mass Wasting	0-10%	26-50%	11-25%	11-25%	0-10%	51-75%	V	18.5
ND	06343000	Heart River near South Heart	Silt/Clay	No	26-50%	0-10%	Mass Wasting	Mass Wasting	51-75%	51-75%	11-25%	11-25%	0-10%	11-25%	IV	24.5
ND	06344600	Green River near New Hradec	Silt/Clay	No	26-50%	0-10%	Mass Wasting	Mass Wasting	51-75%	76-100%	0-10%	0-10%	0-10%	0-10%	IV	26.5
ND	06349000	Heart River near Mandan	Sand	No	11-25%	0-10%	None	None	0-10%	11-25%	76-100%	76-100%	76-100%	51-75%	VI	9.5
ND	06349900	Cannonball River at New England	Silt/Clay	No	51-75%	0-10%	None	None	0-10%	0-10%	51-75%	51-75%	76-100%	76-100%	VI	8.5
ND	06349930	Coal Bank Creek near Havelock	Silt/Clay	No	11-25%	0-10%	Mass Wasting	Mass Wasting	76-100%	76-100%	11-25%	11-25%	0-10%	0-10%	IV	27
ND	06350000	Cannonball River at Regent	Sand	No	11-25%	0-10%	Mass Wasting	Mass Wasting	51-75%	51-75%	11-25%	11-25%	0-10%	0-10%	IV	25

State	Gage number	Gage identification	Bed material	Bed or bank protection	Incision	Constriction	Streambank erosion		Streambank instability		Woody vegetative cover		Bank accretion		Stage of channel evolution	Channel stability index
							Left	Right	Left	Right	Left	Right	Left	Right		
ND	06352400	Timber Creek near Bentley	Silt/Clay	No	76-100%	0-10%	None	None	0-10%	0-10%	51-75%	51-75%	76-100%	76-100%	I	6
ND	06354000	Cannonball River at Breien	Gravel	No	51-75%	0-10%	None	Fluvial	0-10%	11-25%	26-50%	26-50%	76-100%	76-100%	I	7.5
ND	06355310	Buffalo Creek Tributary near Gascoyne	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SD	06355500	North Fork Grand River near White Butte	Silt/Clay	No	26-50%	0-10%	Mass Wasting	Fluvial	51-75%	11-25%	11-25%	51-75%	0-10%	0-10%	IV	22
SD	06356500	South Fork Grand River near Cash	Silt/Clay	No	26-50%	0-10%	Mass Wasting	Mass Wasting	76-100%	76-100%	11-25%	11-25%	11-25%	0-10%	IV	25.5
SD	06357800	Grand River at Little Eagle	Sand	No	51-75%	0-10%	None	None	0-10%	0-10%	51-75%	51-75%	76-100%	11-25%	VI	9
SD	06360500	Moreau River near Whitehorse	Silt/Clay	No	11-25%	0-10%	Mass Wasting	Mass Wasting	51-75%	26-50%	26-50%	26-50%	11-25%	26-50%	V	22
WY	06364700	Antelope Creek near Teckla	Sand	No	76-100%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	76-100%	76-100%	VI	5.5
WY	06365300	Dry Fork Cheyenne River near Bill	Silt/Clay	No	26-50%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	76-100%	76-100%	I	7
WY	06365900	Cheyenne River near Dull Center	Sand	No	26-50%	0-10%	Fluvial	Fluvial	11-25%	11-25%	26-50%	26-50%	0-10%	0-10%	III	17
WY	06375600	Little Thunder Creek near Hampshire	Gravel	No	51-75%	0-10%	Fluvial	Fluvial	0-10%	0-10%	76-100%	76-100%	0-10%	0-10%	I	10
WY	06376300	Black Thunder Creek near Hampshire	Silt/Clay	No	11-25%	0-10%	Mass Wasting	Mass Wasting	76-100%	76-100%	0-10%	0-10%	0-10%	0-10%	IV	28
WY	06378300	Lodgepole Creek near Hampshire	Silt/Clay	No	26-50%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	76-100%	76-100%	VI	8.5
WY	06386000	Lance Creek near Riverview	Gravel	No	11-25%	0-10%	None	Mass Wasting	0-10%	76-100%	11-25%	0-10%	76-100%	0-10%	V	18.5
WY	06386400	Cheyenne River at Riverview	Sand	No	26-50%	0-10%	Fluvial	None	0-10%	0-10%	51-75%	11-25%	0-10%	76-100%	VI	12.5
WY	06386500	Cheyenne River near Spencer	Gravel	No	26-50%	0-10%	None	Mass Wasting	0-10%	51-75%	26-50%	11-25%	76-100%	0-10%	V	16
SD	06400500	Cheyenne River near Hot Springs Sd	Sand/Gravel	No	26-50%	0-10%	Fluvial	Fluvial	0-10%	11-25%	76-100%	76-100%	76-100%	76-100%	VI	9.5
SD	06414700	Rapid Creek at East Main St at Rapid City Sd	Boulder/Cobble	No	51-75%	0-10%	None	Fluvial	0-10%	0-10%	76-100%	51-75%	76-100%	26-50%	I	5.5
SD	06416000	Rapid Creek belowHawthorn Ditch at Rapid City	Cobbles/silt	No	26-50%	0-10%	None	Mass Wasting	0-10%	76-100%	76-100%	0-10%	76-100%	0-10%	V	16
SD	06416300	Meade Street Drain at Rapid City Sd	Sand	No	0-10%	0-10%	Mass Wasting	Mass Wasting	76-100%	51-75%	26-50%	11-25%	0-10%	11-25%	IV	25.5
WY	06425720	Belle Fourche River below Rattlesnake C, near Piney	Gravels+Silt	No	26-50%	0-10%	None	Fluvial	0-10%	0-10%	76-100%	76-100%	76-100%	0-10%	VI	10.5
WY	06425780	Belle Fourche River above Dry Creek near Piney	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WY	06425900	Caballo Creek at Mouth, near Piney	Sand	No	26-50%	0-10%	Fluvial	Fluvial	0-10%	0-10%	26-50%	26-50%	0-10%	0-10%	III	16
WY	06426100	Stonepile Creek at Gillette	-	-	-	-	-	-	-	-	-	-	-	-	II	-
WY	06426400	Donkey Creek near Moorcroft	Silt/Clay	No	26-50%	0-10%	Fluvial	Mass Wasting	0-10%	76-100%	11-25%	0-10%	11-25%	0-10%	IV	23
WY	06426500	Belle Fourche River belowMoorcroft	Sand	No	11-25%	0-10%	Mass Wasting	Mass Wasting	76-100%	76-100%	51-75%	51-75%	0-10%	0-10%	IV	24
SD	06436198	Whitewood Creek Above Vale	Boulder/Cobble	No	26-50%	0-10%	Fluvial	Mass Wasting	0-10%	76-100%	51-75%	0-10%	51-75%	0-10%	V	17
SD	06437000	Belle Fourche River near Sturgis	Silt/Clay	No	51-75%	0-10%	None	Mass Wasting	11-25%	51-75%	0-10%	76-100%	11-25%	26-50%	V	17.5
SD	06438000	Belle Fourche River near Elm Springs	Sand	No	26-50%	0-10%	None	Mass Wasting	0-10%	76-100%	76-100%	0-10%	76-100%	0-10%	V	17
SD	06440000	Missouri River at Pierre	Sand	2 Banks	-	-	-	-	-	-	-	-	-	-	II	-
SD	06440200	South Fork Bad River near Cottonwood	Boulder/Cobble	No	11-25%	0-10%	None	Mass Wasting	0-10%	76-100%	51-75%	76-100%	51-75%	0-10%	V	15
SD	06441110	Plum Creek belowHayes, Sd	Silt/Clay	No	0-10%	0-10%	Mass Wasting	Mass Wasting	51-75%	76-100%	11-25%	51-75%	0-10%	51-75%	V	24
SD	06441500	Bad River near Fort Pierre	Silt/Clay	No	11-25%	0-10%	None	Mass Wasting	26-50%	76-100%	51-75%	0-10%	76-100%	0-10%	V	20.5
SD	06445700	White River at Slim Butte, Sd	Silt/Clay	No	11-25%	0-10%	Fluvial	Fluvial	0-10%	11-25%	51-75%	51-75%	0-10%	0-10%	III	17.5
SD	06446000	White River near Oglala Sd	Sand	No	11-25%	0-10%	Mass Wasting	Mass Wasting	51-75%	76-100%	11-25%	0-10%	0-10%	0-10%	IV	26
SD	06446200	White River near Rockyford Sd	Sand	No	26-50%	0-10%	None	Mass Wasting	0-10%	51-75%	0-10%	0-10%	76-100%	26-50%	V	17.5
SD	06447000	White River near Kadoka	Sand	No	11-25%	0-10%	None	None	0-10%	26-50%	76-100%	11-25%	76-100%	51-75%	VI	11.5
SD	06449300	Little White River Abv Rosebud Sd	Sand	No	26-50%	0-10%	Fluvial	Mass Wasting	0-10%	76-100%	51-75%	0-10%	51-75%	0-10%	V	19
SD	06452000	White River near Oacoma	Sand	No	26-50%	0-10%	None	Mass Wasting	0-10%	51-75%	51-75%	51-75%	26-50%	51-75%	V	15
NE	06461500	Niobrara River near Sparks	BR, Boulder, GP SP	No	51-75%	0-10%	Fluvial	Fluvial	0-10%	11-25%	76-100%	76-100%	26-50%	11-25%	VI	10
NE	06462000	(N) Niobrara River near Norden	Bedrock	Yes	0-10%	76-100%	Mass Wasting	Mass Wasting	76-100%	76-100%	0-10%	0-10%	0-10%	0-10%	IV	28
NE	06463000	(N) Niobrara River at Meadville	Sand	No	11-25%	26-50%	Fluvial	Mass Wasting	11-25%	76-100%	51-75%	0-10%	76-100%	26-50%	V	21
NE	06463500	(N) Long Pine Creek near Riverview	Sand	No	26-50%	0-10%	None	Mass Wasting	11-25%	76-100%	76-100%	0-10%	76-100%	0-10%	V	17.5
NE	06463720	Niobrara River at Mariaville	Sand	No	11-25%	0-10%	Fluvial	Mass Wasting	26-50%	76-100%	26-50%	0-10%	26-50%	26-50%	V	21
WY	06644550	North Platte River at Casper	Gravel	1 Bank	26-50%	0-10%	Fluvial	None	0-10%	0-10%	76-100%	76-100%	51-75%	11-25%	VI	10.5
WY	06652000	North Platte River at Orin	Boulder/Cobble	No	26-50%	0-10%	Fluvial	Mass Wasting	26-50%	51-75%	51-75%	26-50%	51-75%	11-25%	V	16
WY	06656000	North Platte River belowGuernsey Reservoir	Boulder/Cobble	No	51-75%	0-10%	None	None	11-25%	11-25%	76-100%	76-100%	26-50%	26-50%	I	6
WY	06670500	Laramie River near Fort Laramie	Boulder/Cobble	No	26-50%	0-10%	None	Mass Wasting	0-10%	51-75%	76-100%	11-25%	76-100%	11-25%	V	13.5



**Appendix C-vi – Rapid Geomorphic Assessment data for the Lake Agassiz Plain, Ecoregion 48.**

State	Gage number	Gage identification	Bed material	Bed or bank protection	Incision	Constriction	Streambank erosion		Streambank instability		Woody vegetative cover		Bank accretion		Stage of channel evolution	Channel stability index
							Left	Right	Left	Right	Left	Right	Left	Right		
ND	05051522	Red River of the North at Hickson	Silt/Clay	No	11-25%	0-10%	None	Mass Wasting	11-25%	51-75%	0-10%	0-10%	11-25%	0-10%	III	21.5
ND	05053000	Wild Rice River near Abercrombie	Silt/Clay	No	0-10%	0-10%	None	Mass Wasting	11-25%	76-100%	26-50%	0-10%	26-50%	0-10%	V	22.5
ND	05054020	Red River of the North below Fargo	Silt/Clay	No	0-10%	0-10%	Mass Wasting	Mass Wasting	76-100%	76-100%	26-50%	26-50%	0-10%	0-10%	IV	27
ND	05059000	Sheyenne River near Kindred	Silt/Clay	Yes	0-10%	0-10%	Mass Wasting	Mass Wasting	76-100%	76-100%	0-10%	11-25%	0-10%	0-10%	II	24.5
MN	05062500	Wild Rice River at Twin Valley	Sand/Gravel	No	26-50%	11-25%	None	Mass Wasting	0-10%	76-100%	0-10%	0-10%	76-100%	0-10%	V	19.5
MN	05064000	Wild Rice River at Hendrum	Silt/Clay	No	11-25%	0-10%	Mass Wasting	Mass Wasting	76-100%	76-100%	51-75%	26-50%	0-10%	0-10%	IV	25.5
MN	05064500	Red River of the North at Halstad	Silt/Clay	No	0-10%	0-10%	Mass Wasting	Fluvial	51-75%	11-25%	26-50%	11-25%	0-10%	0-10%	V	23.5
MN	05079000	Red Lake River at Crookston	Sand	2 Banks	11-25%	11-25%	Mass Wasting	None	51-75%	0-10%	26-50%	11-25%	0-10%	51-75%	V	21.5
ND	05082625	Turtle River at Turtle River State Park near Arvilla	Sand	No	51-75%	0-10%	None	None	0-10%	11-25%	11-25%	0-10%	76-100%	11-25%	V	13.5
MN	05083500	Red River of the North at Olso	Silt/Clay	1 Bank	11-25%	0-10%	None	None	11-25%	11-25%	11-25%	11-25%	51-75%	51-75%	VI	15.5
MN	05085900	Snake River above Alvarado	Silt/Clay	No	51-75%	0-10%	None	None	11-25%	0-10%	26-50%	51-75%	76-100%	76-100%	VI	9.5
ND	05099600	Pembina River at Walhalla	Sand/Gravel	No	11-25%	0-10%	None	Mass Wasting	0-10%	76-100%	26-50%	0-10%	76-100%	0-10%	V	18.5
ND	05102490	Red River of the North at Pembina	Silt/Clay	No	11-25%	0-10%	Mass Wasting	Mass Wasting	76-100%	51-75%	51-75%	51-75%	51-75%	51-75%	V	20.5
MN	05061000	Buffalo River near Hawley	Boulder/Cobble	No	51-75%	0-10%	Fluvial	Fluvial	11-25%	11-25%	76-100%	76-100%	0-10%	0-10%	I	10
MN	05061500	South Branch Buffalo River at Sabin	Silt/Clay	No	76-100%	0-10%	None	None	0-10%	0-10%	76-100%	76-100%	76-100%	76-100%	VI	6.5
MN	05062000	Buffalo River near Dilworth	Silt/Clay	No	26-50%	0-10%	Mass Wasting	Mass Wasting	51-75%	51-75%	11-25%	11-25%	11-25%	11-25%	IV	24
MN	05087500	Middle River at Argyle	Silt/Clay	No	26-50%	0-10%	None	Mass Wasting	0-10%	76-100%	26-50%	0-10%	51-75%	0-10%	V	19.5