

ANNUAL MAXIMUM DISCHARGE AT MISCELLANEOUS SITES DURING WATER YEAR 2003

Stream	Tributary to	Location	Period of Record	Measurements		
				Date	Gage height (feet)	Discharge (cfs)
Platte River Basin						
Crow Creek at 5th Street, in Cheyenne	South Platte River	Lat 41°07'20", long 104°48'38", in SE ¹ / ₄ NE ¹ / ₄ SE ¹ / ₄ sec.6, T.13 N., R.66 W., Laramie County, Hydrologic Unit 10190009, 15 ft upstream from bridge on 5th Street, in Cheyenne.	1995-03	6-10-03	5.71	126
Crow Creek on C.P. Orgon property, in Cheyenne	South Platte River	Lat 41°07'26", long 104°47'20", in NW ¹ / ₄ NW ¹ / ₄ SW ¹ / ₄ sec.4, T.13 N., R.66 W., Laramie County, Hydrologic Unit 10190009, 100ft downstream from bridge over Crow Creek on private land, and approximately 1,700 ft east of Morrie Avenue, in Cheyenne	1996-03	9-8-03	3.70	214
Clear Creek at Parsley Boulevard, in Cheyenne	Crow Creek	Lat 41°07'30", long 104°49'22", in SW ¹ / ₄ SE ¹ / ₄ NW ¹ / ₄ sec.6, T.13 N., R.66 W., Laramie County, Hydrologic Unit 10190009, 15 ft upstream from culvert under Parsley Boulevard, in Cheyenne.	1996-03	9-8-03	7.09	4.4
Henderson Drain at Nationway in Cheyenne	Crow Creek	Lat 41°08'08", long 104°46'19", in SE ¹ / ₄ NE ¹ / ₄ SE ¹ / ₄ sec.33, T.14 N., R.66 W., Laramie County, Hydrologic Unit 10190009, 40 ft upstream from culvert on Nationway, in Cheyenne.	1994, 1996-03	9-8-03	9.37	167
Dry Creek at Vista Lane, in Cheyenne 06756030	Crow Creek	Lat 41°10'27", long 104°50'31", in NW ¹ / ₄ NE ¹ / ₄ NW ¹ / ₄ sec.24, T.14 N., R.67 W., Laramie County, Hydrologic Unit 10190009, 30 ft upstream from culvert on Vista Lane, in Cheyenne.	1987-03	6-10-03	3.15	6.7
Dry Creek at Smalley Park, in Cheyenne	Crow Creek	Lat 41°10'02", long 104°49'07", in NE ¹ / ₄ NE ¹ / ₄ SW ¹ / ₄ sec. 19, T.14 N., R.66 W., Laramie County, Hydrologic Unit 10190009, 30 ft upstream from culvert on Seminole Road in Cheyenne.	1994-03	6-10-03	11.20	121
Dry Creek tributary at Briarwood Road, in Cheyenne	Dry Creek	Lat 41°09'53", long 104°47'15", in SE ¹ / ₄ NW ¹ / ₄ SW ¹ / ₄ sec.21, T.14 N., R.66 W., Laramie County, Hydrologic Unit 10190009, 15 ft upstream from culvert on Briarwood Road, in Cheyenne.	1994, 1996-03	4-30-03	12.32	3.0
Dry Creek at Windmill Road, in Cheyenne	Crow Creek	Lat 41°09'39", long 104°46'45", in SW ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄ sec.21, T.14 N., R.66 W., Laramie County, Hydrologic Unit 1019000, 50 ft upstream from culvert on Windmill Road in Cheyenne.	1994-03	6-10-03	8.65	63
Dry Creek at College Drive, in Cheyenne	Crow Creek	Lat 41°09'26", long 104°45'38", in SE ¹ / ₄ NE ¹ / ₄ NW ¹ / ₄ sec.27, T.14 N., R.66 W., Laramie County, Hydrologic Unit 10190009, 40 ft upstream from culvert on College Drive, in Cheyenne.	1994-03	6-10-03	11.31	79
Dry Creek at Rawlins Street, in Cheyenne	Crow Creek	Lat 41°09'11", long 104°45'03", in SW ¹ / ₄ SW ¹ / ₄ NW ¹ / ₄ sec.26, T.14 N., R.66 W., Laramie County, Hydrologic Unit 10190009, 30 ft upstream from culvert on Rawlins Street, in Cheyenne.	1994-03	6-10-03	13.46	15

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2003

Stream	Tributary to	Location	Drainage area (sq mi)	Measured pre- viously (water years)	Measurements	
					Date	Discharge (cfs)
Yellowstone River Basin						
Dinwoody Canal 432302109215601	Wind River	Lat 41°23'02", long 109°21'56", in NE ¹ / ₄ SW ¹ / ₄ NW ¹ / ₄ sec.28, T.5 N., R.5 W., Fremont County, Hydrologic Unit 10080001, Wind River Indian Reservation, on left bank 600 ft downstream from headgate, 2.7 mi upstream from aqueduct, and 2.7 mi south of Wilderness.		1988--96 1999 2001--03	05-21-03	95.7
					06-27-03	26.5
					07-30-03	204
					09-03-03	179
37-C Lateral 425716108520401	Little Wind River	Lat 42°57'16", long 108°52'04", in SW ¹ / ₄ SE ¹ / ₄ SW ¹ / ₄ sec.22, T.1 S., R.1 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on right bank at headgate, 1.1 mi upstream from crossing on unimproved dirt road, and 2.4 mi southeast of Wind River		1988--97 1999 2001--03	05-23-03	26.3
					06-26-03	66.3
					07-28-03	48.9
					09-03-03	9.80
65-C Lateral at Headworks 425515108485401	Little Wind River	Lat 42°55'15", long 108°48'54", in NE ¹ / ₄ SE ¹ / ₄ NE ¹ / ₄ sec.1, T.2 S., R.1 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on left bank at headgate, 1.1 mi upstream from crossing on light-duty road, and 3.4 mi northwest of Milford.		1988--97 1999 2001--03	05-20-03	24.6
					06-26-03	62.6
					07-28-03	49.3
					08-28-03	10.5
Ray Canal Below 65 "C" Lateral 425513108485801	Little Wind River	Lat 42°55'13", long 108°48'58", in NE ¹ / ₄ SE ¹ / ₄ NE ¹ / ₄ sec.1, T.2 S., R.1 W., Fremont County, Hydrologic Unit 10080002, Wind River Indian Reservation, on left bank, 400 ft downstream from 65-C Lateral, 0.9 mi upstream from crossing on unimproved dirt road, and 3.4 mi northwest of Milford.		1988--97 1999 2001--03	05-20-03	7.84
					06-26-03	9.10
					06-26-03	9.67
					07-28-03	13.7
					08-01-03	13.3
		08-28-03	3.04			
Snake River Basin						
Fish Creek near Teton Village 433504110493901	Snake River	Lat 43°35'04", long 110°49'39", in NE ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄ sec.24, T.42 N., R.117 W., Teton County, Hydrologic Unit 17040103, on right bank 0.2 mi southwest of Teton Village entry from State Hwy 390.		2000--03	05-07-03	1.58
					06-12-03	6.11
					07-10-03	3.94
					08-27-03	3.08
Fish Creek at Resor Bridge, near Teton Village 433243110504501	Snake River	Lat 43°32'43", long 110°50'45", in SW ¹ / ₄ SE ¹ / ₄ NE ¹ / ₄ sec.2, T.41 N., R.117 W., Teton County, Hydrologic Unit 17040103, on right bank 1.2 mi west of miscellaneous site 433247110491701 Lake Creek at State Hwy 390, and 3.0 mi southwest of Teton Village.		2000--03	05-07-03	10.7
					06-12-03	161
					06-12-03	165
					07-10-03	120
		08-28-03	98.8			
Lake Creek at State Hwy 390, near Wilson 433247110491701	Fish Creek	Lat 43°32'47", long 110°49'17", in SW ¹ / ₄ SW ¹ / ₄ NW ¹ / ₄ sec.6, T.41 N., R.116 W., Teton County, Hydrologic Unit 17040103, at bridge on State Hwy 390, 2.8 mi south of Teton Village, and 4.1 mi northeast of Wilson.		1994--03	06-12-03	606
					07-10-03	273
					08-28-03	150
Phillips Canyon at Fish Creek Road, near Wilson 433234110512601	Fish Creek	Lat 43°32'34", long 110°51'26", in SE ¹ / ₄ NW ¹ / ₄ SW ¹ / ₄ sec.2, T.41 N., R.117 W., Teton County, Hydrologic Unit 17040103, on right bank 50 ft upstream from culvert on Fish Creek Road, 3.1 mi northeast of Wilson, and 3.4 mi southwest of Teton Village.		2000--03	05-07-03	3.79
					06-12-03	27.2
					07-10-03	10.0
					08-27-03	3.78
Fish Creek at Harmon's, at Wilson 432958110521301	Snake River	Lat 43°29'58", long 110°52'13", in SW ¹ / ₄ NW ¹ / ₄ SE ¹ / ₄ sec.22, T.41 N., R.117 W., Teton County, Hydrologic Unit 17040103, on left bank at Wilson and 600 ft downstream from station 13016450 Fish Creek at Wilson		2000--03	05-07-03	60.6
					06-13-03	856
					07-10-03	519
					08-27-03	330

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2003

Stream	Tributary to	Location	Drainage area (sq mi)	Measured pre- viously (water years)	Measurements	
					Date	Discharge (cfs)
Fish Creek above Mosquito Creek, near Wilson 432705110514501	Snake River	Lat 43°27'05", long 110°51'45", in SE ¹ / ₄ SE ¹ / ₄ SW ¹ / ₄ sec.3, T.40 N., R.117 W., Teton County, Hydrologic Unit 17040103, at bridge on Fish Creek Meadow Road and 3.5 mi south of Wilson on Fall Creek Road.		2000--03	05-08-03	65.8
					06-13-03	733
					07-10-03	472
					08-28-03	286

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES

FREMONT COUNTY WEED AND PEST DISTRICT STUDY

YELLOWSTONE RIVER BASIN

425008108445401 SQUAW CREEK AT SMITH STREET, AT LANDER, WY (LAT 42 50 08 LONG 108 44 54)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unfiltered 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	2,4,5-T water unfiltered ug/L (39740)	2,4-D water unfiltered ug/L (39730)	Dicamba water unfiltered ug/L (82052)	Dichloroprop, water, unfiltered ug/L (82183)	Picloram water unfiltered ug/L (39720)	Silvex, water, unfiltered ug/L (39760)
AUG 22...	1115	2.4	981	26.0	17.0	<0.03	E.02	<0.03	<0.03	0.05	<0.03

E -- Estimated value

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES
 GRAND TETON NATIONAL PARK, EASTERN TRIBUTARIES
 SNAKE RIVER BASIN

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

435529110335101 PILGRIM CREEK BELOW PARK BOUNDARY, NEAR MORAN,
 GRAND TETON NATIONAL PARK, WY (LAT 43 55 29 LONG 110 33 51)

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 05...	0900	11	596	11.4	100	8.1	231	-2.0	0.0	100	31.7	5.31	0.80
Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
NOV 05...	0.2	5.11	E112	<0.20	<0.17	7.91	6.6	125	<0.10	E.06	<0.04	<0.06	<0.008
Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)						
NOV 05...	<0.02	0.006	0.006	<10	E1.4	1	0.03						

13010450 PILGRAM CREEK NEAR MORAN, WY (LAT 43 54 14 LONG 110 35 12)

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
NOV 05...	1200	2.2	596	11.5	101	8.3	239	-1.0	0.0	110	35.2	5.95	0.84
Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
NOV 05...	0.2	5.95	122	E.16	<0.17	8.75	7.4	130	<0.10	E.06	<0.04	<0.06	<0.008
Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)						
NOV 05...	<0.02	E.004	0.005	<10	E1.6	1	0.01						

GRAND TETON NATIONAL PARK, EASTERN TRIBUTARIES—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

4354591100275401 PACIFIC CREEK ABOVE PARK BOUNDARY, GRAND TETON NATIONAL PARK,
NEAR MORAN, WY (LAT 43 54 59 LONG 110 27 45)

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
NOV 05...	1500	32	595	11.6	102	7.8	230	0.5	0.0	110	31.8	6.54	0.95	
Date	Time	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
NOV 05...	0.2	5.26	E99	E.11	<0.17	11.9	13.4	134	<0.10	E.06	<0.04	<0.06	<0.008	
Date	Time			Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)				
NOV 05...				<0.02	0.008	0.016	<10	E1.3	11	0.96				
13011500 PACIFIC CREEK AT MORAN, WY (LAT 43 51 04 LONG 110 30 59)														
Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
NOV 05...	1330	56	596	10.6	94	7.7	239	0.0	0.5	110	33.7	6.58	1.14	
Date	Time	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)
NOV 05...	0.2	4.91	116	0.25	<0.17	13.1	11.7	141	0.19	20.9	137	<0.10	E.07	
Date	Time			Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)		
NOV 05...				<0.04	<0.06	<0.008	<0.02	0.008	0.016	E5	7.0	5	0.76	

GRAND TETON NATIONAL PARK, EASTERN TRIBUTARIES—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

13011900 BUFFALO FORK ABOVE LAVA CREEK, NEAR MORAN, WY (LAT 43 50 14 LONG 110 26 21)

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
NOV 04...	1445	148	594	11.1	98	8.7	241	-1.0	0.0	95	26.7	6.84	1.91	
Date	Time	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat fltrd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC, wat fltrd, mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)
NOV 04...	0.3	6.38	109	4.58	<0.17	21.5	8.3	142	0.20	57.8	145	E.05	E.07	
Date	Time	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Nitrite, water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Suspended sediment concentration, mg/L (80154)	Suspended sediment load, tons/d (80155)			
NOV 04...		<0.04	<0.06	<0.008	0.04	0.045	0.061	E9	12.8	11	4.4			

13012000 BUFFALO FORK NEAR MORAN, WY (LAT 43 50 10 LONG 110 30 30)

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
NOV 06...	1345	175	596	11.7	103	8.1	218	5.0	0.0	94	26.7	6.72	1.90	
Date	Time	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat fltrd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC, wat fltrd, mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)
NOV 06...	0.3	6.37	103	3.52	<0.17	22.2	7.1	136	0.18	63.0	133	E.06	E.07	
Date	Time	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Nitrite, water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Suspended sediment concentration, mg/L (80154)	Suspended sediment load, tons/d (80155)			
NOV 06...		<0.04	<0.06	<0.008	0.04	0.044	0.059	<10	10.3	13	6.1			

GRAND TETON NATIONAL PARK, EASTERN TRIBUTARIES—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

13012490 SPREAD CREEK AT DIVERSION DAM, NEAR MORAN, WY (LAT 43 46 22 LONG 110 28 59)

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
NOV 06...	0930	24	594	11.1	98	8.1	260	-4.5	0.0	120	35.8	8.12	1.02	
Date	Time	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat fltrd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat fltrd, mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)
NOV 06...	0.2	5.34	129	0.23	<0.17	8.38	10.8	147	0.19	9.01	140	E.05	E.07	
Date	Time	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)			
NOV 06...		<0.04	<0.06	<0.008	<0.02	E.003	0.026	13	4.1	20	1.3			

13012500 SPREAD CREEK NEAR MORAN, WY (LAT 43 47 26 LONG 110 32 14)

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
NOV 06...	1130	11	596	11.4	100	8.0	269	-1.0	0.0	130	38.1	8.58	1.06	
Date	Time	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat fltrd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat fltrd, mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)
NOV 06...	0.2	5.62	133	0.32	<0.17	8.87	10.9	153	0.20	4.30	149	E.08	E.08	
Date	Time	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)			
NOV 06...		<0.04	<0.06	<0.008	<0.02	E.002	0.007	<10	E1.6	2	0.06			

GRAND TETON NATIONAL PARK, EASTERN TRIBUTARIES—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

13013530 DITCH CREEK BELOW SOUTH FORK, NEAR KELLY, WY (LAT 43 40 53 LONG 110 34 58)

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	
Date		Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)
NOV 06...	1630		3.0	593	11.6	102	8.3	359	1.0	0.0	170	52.2	8.67	1.16
NOV 06...	0.3	10.3	153	0.30	<0.17	11.6	37.6	214	0.29	1.72	216	E.07	E.07	
Date		Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)			
NOV 06...		<0.04	<0.06	<0.008	E.01	0.010	0.015	<10	E2.0	1	0.01			

13013600 DITCH CREEK NEAR MOOSE, WY (LAT 43 39 52 LONG 110 41 44)

Date	Time	Instantaneous discharge, cfs (00061)	Temperature, air, deg C (00020)
NOV 06...	1300	0.00	5.0

E -- Estimated

KENDRICK IRRIGATION STUDY

PLATTE RIVER BASIN

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
 430018106300201 ILLCO SEEP NEAR OUTLET, NEAR ILLCO, WY (LAT 43 00 18 LONG 106 30 02)

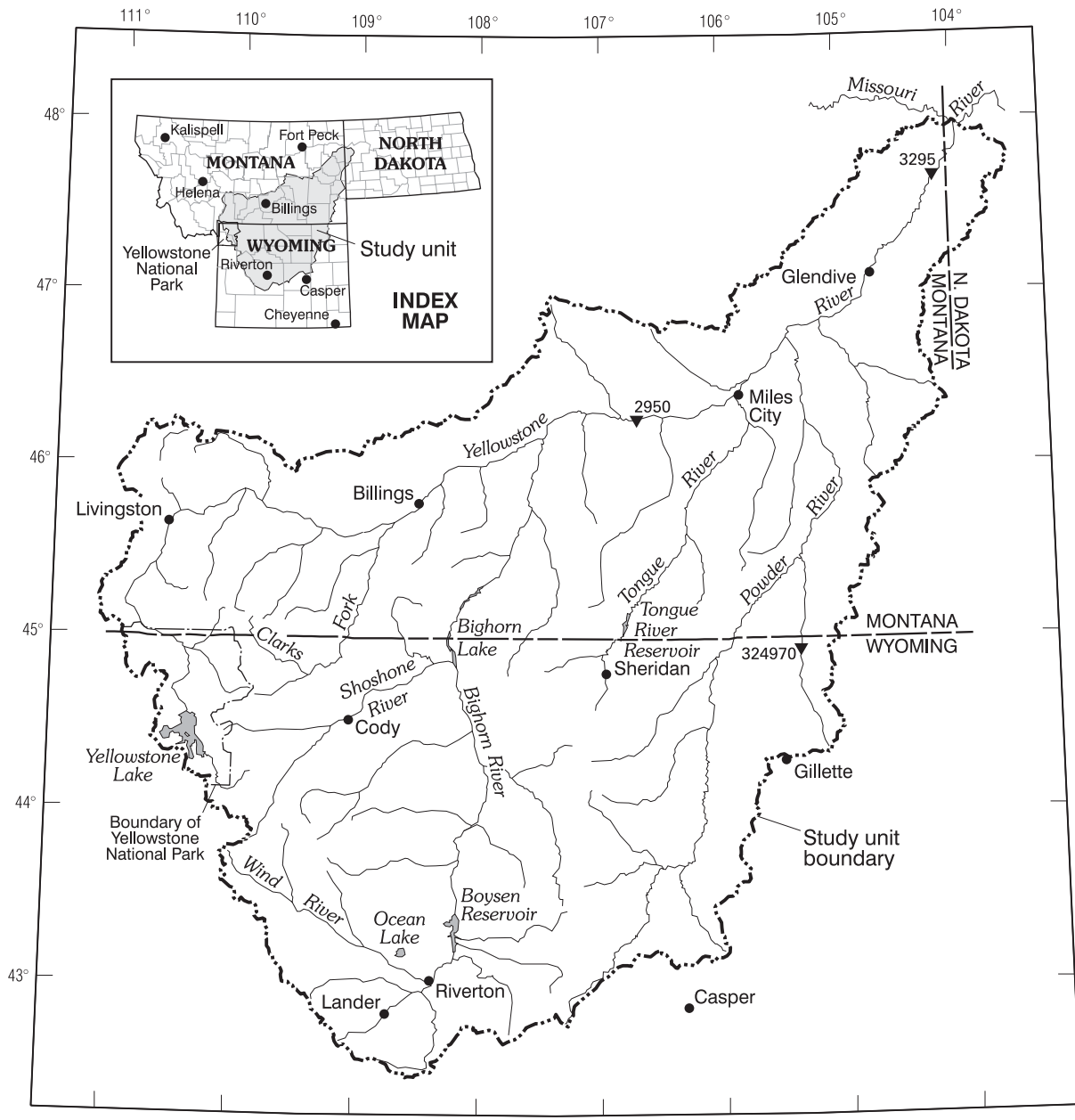
Date	Time	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Selen- ium, water, fltrd, ug/L (01145)
APR 15...	1400	620	11.8	149	8.6	3,070	18.0	16.0	4.6
JUL 22...	0915	635	6.4	84	8.4	13,300	25.5	17.0	E1.8
SEP 10...	1040	628	5.5	68	8.4	15,900	12.0	13.5	<3.5

E -- Estimated value

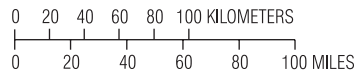
Date	Time	Selen- ium, bed sed <62.5um wet svd fld,tot ug/g (34950)
JUL 22...	0925	13

NATIONAL WATER-QUALITY ASSESSMENT PROGRAM

YELLOWSTONE RIVER BASIN



Base modified from U.S. Geological Survey digital data, 1:2,000,000, 1972
 Albers Equal-area Conic projection
 Standard parallels 29°30' and 45°30'



EXPLANATION

- ▼ 324970 Fixed-station sampling site for water column chemistry and abbreviated number
- Site numbers are abbreviated by not showing first two digits (06) and last two digits if zero.

Figure 6. Location of surface-water sampling sites in the Yellowstone River Basin NAWQA study unit, Montana, North Dakota, and Wyoming.

NATIONAL WATER-QUALITY ASSESSMENT PROGRAM—Continued

YELLOWSTONE RIVER BASIN
Fixed Station Network

06295000 YELLOWSTONE RIVER AT FORSYTH, MT (LAT 46 15 58 LONG 106 41 24)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., mg/L (00453)	Carbonate, wat flt incrm. titr., mg/L (00452)
OCT 04...	1100	4,520	695	10.4	104	8.3	630	10.5	11.0	E159	142	159	7
NOV 13...	1300	4,620	693	13.0	115	8.0	636	13.0	6.0	E147	142	163	5
DEC 12...	1200	E3700	694	13.9	105	8.3	701	-1.0	0.0	E166	154	188	--
JAN 23...	1000	E2800	699	11.4	85	8.2	735	-8.0	0.0	174	160	195	--
FEB 20...	0900	E4200	694	10.0	75	8.0	692	6.0	0.0	161	148	181	--
MAR 19...	1130	9,110	701	11.9	97	7.7	538	9.0	3.4	110	106	130	--
MAY 22...	1030	11,000	699	8.9	93	7.7	358	21.0	13.2	93	78	95	--
JUN 17...	1600	26,900	700	8.0	95	8.1	217	29.0	19.5	62	58	70	--
JUL 17...	1000	8,770	700	7.3	94	8.3	422	26.0	23.5	103	102	115	5
AUG 21...	1000	3,470	699	8.2	103	8.3	701	23.0	22.0	152	106	120	5
SEP 08...	1300	3,250	686	10.9	139	8.3	699	29.0	22.0	161	106	124	2

Date	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	2,6-Diethyl-aniline water fltrd 0.7u GF (82660)	CIAT, water, fltrd, ug/L (04040)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)
OCT 04...	8.43	162	0.23	<0.04	0.27	E.007	<0.02	0.033	--	--	--	--	--
NOV 13...	8.50	163	0.26	<0.04	0.29	0.010	<0.02	0.038	<0.006	<0.006	<0.006	<0.004	<0.005
DEC 12...	8.72	180	0.19	<0.04	0.57	E.007	<0.02	0.014	--	--	--	--	--
JAN 23...	9.46	206	0.30	0.07	0.65	E.004	<0.02	0.009	<0.006	<0.006	<0.006	<0.004	<0.005
FEB 20...	8.83	200	0.57	0.05	0.48	E.005	<0.02	0.100	--	--	--	--	--
MAR 19...	6.56	146	2.2	0.18	0.46	0.014	0.03	0.72	<0.006	<0.006	<0.006	<0.004	<0.005
MAY 22...	4.33	74.5	0.58	<0.04	0.19	0.009	E.01	0.186	<0.006	<0.006	<0.006	<0.004	<0.005
JUN 17...	3.03	34.5	0.34	<0.04	0.10	<0.008	E.01	0.166	<0.006	<0.006	<0.006	<0.004	<0.005
JUL 17...	6.25	96.1	0.40	<0.04	E.04	E.005	<0.02	0.083	<0.006	<0.006	<0.006	<0.004	<0.005
AUG 21...	10.5	195	0.42	<0.04	E.06	<0.008	<0.02	0.042	<0.006	E.004	<0.006	<0.004	<0.005
SEP 08...	10.9	198	0.45	<0.04	0.10	E.004	<0.02	0.046	<0.006	<0.006	<0.006	<0.004	<0.005

NATIONAL WATER-QUALITY ASSESSMENT PROGRAM—Continued

YELLOWSTONE RIVER BASIN
Fixed Station Network

06295000 YELLOWSTONE RIVER AT FORSYTH, MT (LAT 46 15 58 LONG 106 41 24)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Atra- zine, water, fltrd, ug/L (39632)	Azin- phos- methyl, water, fltrd 0.7u GF ug/L (82686)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Butyl- ate, water, fltrd, ug/L (04028)	Car- baryl, water, fltrd 0.7u GF ug/L (82680)	Carbo- furan, water, fltrd 0.7u GF ug/L (82674)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF ug/L (82687)	Cyana- zine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diazi- non, water, fltrd, ug/L (39572)	Diel- drin, water, fltrd, ug/L (39381)
OCT 04...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 13...	E.005	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.004	<0.005	<0.005
DEC 12...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 23...	<0.007	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.004	<0.005	<0.005
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 19...	<0.007	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.004	<0.005	<0.005
MAY 22...	<0.007	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.004	<0.005	<0.005
JUN 17...	<0.007	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.004	<0.005	<0.005
JUL 17...	E.006	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.004	<0.005	<0.005
AUG 21...	0.008	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.004	<0.005	<0.005
SEP 08...	E.006	<0.050	<0.010	<0.002	<0.041	<0.020	--	<0.006	<0.018	<0.003	<0.004	--	<0.005
Date	Disul- foton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal- flur- alin, water, fltrd 0.7u GF ug/L (82663)	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipro- nil sulfide water, fltrd, ug/L (62167)	Fipro- nil sulfone water, fltrd, ug/L (62168)	Fipro- nil, water, fltrd, ug/L (62166)	Fonofos water, fltrd, ug/L (04095)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)
OCT 04...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 13...	<0.02	<0.002	<0.009	<0.005	E.005	<0.005	<0.005	<0.007	<0.003	<0.004	<0.035	<0.027	<0.006
DEC 12...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 23...	<0.02	<0.002	<0.009	<0.005	<0.009	<0.005	<0.005	<0.007	<0.003	<0.004	<0.035	<0.027	<0.006
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 19...	<0.02	<0.040	<0.009	<0.005	<0.009	<0.005	<0.005	<0.007	<0.003	<0.004	<0.035	<0.027	<0.006
MAY 22...	<0.02	<0.002	<0.009	<0.005	<0.009	<0.005	<0.005	<0.007	<0.003	<0.004	<0.035	<0.027	<0.006
JUN 17...	<0.02	<0.002	<0.009	<0.005	<0.009	<0.005	<0.005	<0.007	<0.003	<0.004	<0.035	<0.027	<0.006
JUL 17...	<0.02	<0.030	<0.009	<0.005	<0.009	<0.005	<0.005	<0.007	<0.003	<0.004	<0.035	<0.027	<0.006
AUG 21...	<0.02	<0.002	<0.009	<0.005	<0.009	<0.005	<0.005	<0.007	<0.003	<0.004	<0.035	<0.027	<0.006
SEP 08...	--	<0.002	<0.009	--	<0.009	<0.005	<0.005	<0.007	--	<0.004	<0.035	--	--

NATIONAL WATER-QUALITY ASSESSMENT PROGRAM—Continued

YELLOWSTONE RIVER BASIN
Fixed Station Network

06295000 YELLOWSTONE RIVER AT FORSYTH, MT (LAT 46 15 58 LONG 106 41 24)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Moli- nate, water, fltrd 0.7u GF ug/L (82671)	Naprop- amide, water, fltrd 0.7u GF ug/L (82684)	p,p-' DDE, water, fltrd, ug/L (34653)	Para- thion, water, fltrd, ug/L (39542)	Peb- ulate, water, fltrd 0.7u GF ug/L (82669)	Pendi- meth- alin, water, fltrd 0.7u GF ug/L (82683)	Phorate water fltrd 0.7u GF ug/L (82664)	Prome- ton, water, fltrd, ug/L (04037)	Pron- amide, water, fltrd 0.7u GF ug/L (82676)	Propa- chlor, water, fltrd, ug/L (04024)	Pro- panil, water, fltrd 0.7u GF ug/L (82679)
OCT 04...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 13...	<0.013	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	E.01	<0.004	<0.010	<0.011
DEC 12...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 23...	<0.013	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011
FEB 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 19...	<0.013	<0.006	<0.007	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011
MAY 22...	<0.013	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011
JUN 17...	E.003	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011
JUL 17...	0.034	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011
AUG 21...	0.018	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	M	<0.004	<0.010	<0.011
SEP 08...	E.009	<0.006	<0.002	<0.007	<0.003	--	<0.004	<0.022	--	M	<0.004	<0.010	<0.011

Date	Propar- gite, water, fltrd 0.7u GF ug/L (82685)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)	Terba- cil, water, fltrd 0.7u GF ug/L (82665)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Thio- bencarb water fltrd 0.7u GF ug/L (82681)	Tri- allate, water, fltrd 0.7u GF ug/L (82678)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Sus- pended sediment concentration mg/L (80154)	Sus- pended sediment load, tons/d (80155)
OCT 04...	--	--	--	--	--	--	--	--	19	232
NOV 13...	<0.02	<0.005	<0.02	<0.034	<0.02	<0.005	0.010	<0.009	45	561
DEC 12...	--	--	--	--	--	--	--	--	19	--
JAN 23...	<0.02	<0.005	<0.02	<0.034	<0.02	<0.005	0.007	<0.009	19	--
FEB 20...	--	--	--	--	--	--	--	--	77	--
MAR 19...	<0.02	<0.005	<0.02	<0.034	<0.02	<0.005	0.008	<0.009	976	24,000
MAY 22...	<0.02	<0.005	<0.02	<0.034	<0.02	<0.005	<0.005	<0.009	143	4,250
JUN 17...	<0.02	<0.005	<0.02	<0.034	<0.02	<0.005	0.007	<0.009	151	11,000
JUL 17...	<0.02	<0.005	<0.02	<0.034	<0.02	<0.005	0.006	<0.009	62	1,470
AUG 21...	<0.02	<0.005	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	22	206
SEP 08...	0.41	<0.005	<0.02	<0.034	--	<0.005	<0.010	<0.009	26	228

E -- Estimated value

YELLOWSTONE RIVER BASIN
 Fixed Station Network

06324970 LITTLE POWDER RIVER ABOVE DRY CREEK NEAR WESTON, WY (LAT 44 55 37 LONG 105 21 10)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)
OCT 17...	1000	0.01	669	10.0	89	8.0	3,030	10.5	4.5	E314	365	445	--
NOV 05...	1200	0.02	672	10.9	102	7.6	3,510	10.5	6.5	E234	393	479	--
DEC 17...	1200	1.2	658	10.6	87	8.0	4,010	6.5	0.5	E373	434	499	14
JAN 21...	1600	0.7	676	8.7	68	7.9	4,470	-10.0	0.0	543	480	586	--
FEB 18...	1500	4.9	673	11.3	88	7.9	2,470	10.0	0.0	324	262	315	--
MAR 26...	1200	112	669	10.7	100	8.1	1,020	14.0	6.5	119	99	122	--
APR 22...	1700	4.4	665	9.7	114	8.1	3,310	17.0	16.0	340	376	447	--
MAY 20...	1500	4.9	679	10.2	115	8.0	2,800	16.0	15.0	327	285	346	--
JUN 16...	1930	6.6	678	8.2	113	8.3	3,090	21.5	25.0	352	291	356	--
JUL 14...	1300	0.05	695	7.2	100	8.0	2,930	31.0	26.5	332	276	336	--
JUL 14...	1600	--	--	--	--	--	--	--	--	--	--	--	--
AUG 19...	1530	0.01	669	6.4	88	8.0	3,390	32.5	24.0	356	--	--	--
SEP 16...	1330	0.03	665	10.2	123	8.3	3,170	23.0	17.0	271	263	316	2

Date	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)
OCT 17...	109	1,240	0.56	<0.04	<0.06	<0.008	<0.02	0.038	117	0.00
NOV 05...	148	1,420	0.37	<0.04	<0.06	<0.008	<0.02	0.020	53	0.00
DEC 17...	81.5	1,790	0.35	E.03	<0.06	<0.008	<0.02	0.016	101	0.33
JAN 21...	118	2,020	0.34	E.02	<0.06	<0.008	<0.02	0.010	98	0.19
FEB 18...	33.9	1,050	0.70	E.02	0.09	E.006	<0.02	0.051	13	0.17
MAR 26...	20.5	353	1.9	<0.04	0.08	<0.008	E.01	0.33	1,210	365
APR 22...	66.2	1,410	--	--	--	--	--	--	211	2.5
MAY 20...	100	1,130	0.97	<0.04	<0.06	<0.008	<0.02	0.061	77	1.0
JUN 16...	90.2	1,270	--	--	--	--	--	--	144	2.6
JUL 14...	99.5	1,210	0.89	<0.04	<0.06	<0.008	<0.02	0.077	131	0.02
JUL 14...	--	--	--	--	--	--	--	--	--	--
AUG 19...	101	1,460	--	--	--	--	--	--	293	0.01
SEP 16...	95.4	1,360	0.35	<0.04	<0.06	<0.008	<0.02	0.034	71	0.01

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES
NATIONAL WATER-QUALITY ASSESSMENT PROGRAM--Continued
YELLOWSTONE RIVER BASIN
Fixed Station Network

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT (LAT 47 40 42 LONG 104 09 22)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Alkalinity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	
Date		Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	2,6-Diethyl-aniline water, fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)
OCT 03...	1300	4,920	707	10.8	103	8.4	727	18.0	10.0	E158	153	179	4	
NOV 12...	1300	5,350	715	14.0	108	8.4	779	4.0	2.0	E153	176	200	7	
DEC 11...	1300	E3800	705	13.8	103	8.4	790	9.0	0.2	E175	176	210	2	
JAN 22...	1400	E4000	729	11.1	80	8.3	917	-16.0	0.0	212	182	222	--	
FEB 19...	1400	E4700	710	11.2	82	8.0	788	8.0	0.0	185	172	205	2	
MAR 18...	1500	E30000	714	10.8	79	7.4	474	2.0	0.0	102	104	126	--	
MAY 21...	1200	12,700	715	9.2	95	8.0	627	20.0	13.8	145	199	143	1	
JUN 17...	1000	26,200	716	7.7	93	7.9	268	23.0	21.2	72	72	88	--	
JUL 16...	1300	7,730	--	7.3	--	8.2	440	29.0	24.5	109	88	107	--	
AUG 20...	1300	1,800	627	6.3	92	8.2	745	27.5	24.0	171	144	166	5	
SEP 09...	1600	2,630	625	7.2	100	8.3	771	25.0	21.0	175	167	203	0.0	
OCT 03...	11.8	206	0.30	<0.04	0.16	<0.008	<0.02	0.061	--	--	--	--	--	
NOV 12...	13.5	205	0.26	<0.04	0.46	0.009	<0.02	0.061	<0.006	<0.006	<0.006	<0.004	<0.005	
DEC 11...	11.5	208	0.28	<0.04	0.52	E.006	<0.02	0.045	--	--	--	--	--	
JAN 22...	17.2	268	0.30	0.05	0.66	<0.008	<0.02	0.025	<0.006	<0.006	<0.006	<0.004	<0.005	
FEB 19...	12.3	220	0.38	0.09	0.56	E.005	<0.02	0.063	--	--	--	--	--	
MAR 18...	7.26	115	2.9	0.23	0.62	0.015	E.01	1.41	<0.006	<0.006	<0.006	<0.004	<0.005	
MAY 21...	9.71	158	1.3	<0.04	0.23	E.006	E.01	0.60	<0.006	<0.006	<0.006	<0.004	<0.005	
JUN 17...	4.26	49.0	0.74	<0.04	0.15	<0.008	E.01	0.40	<0.006	<0.006	<0.006	<0.004	<0.005	
JUL 16...	6.55	101	0.40	<0.04	<0.06	<0.008	<0.02	0.091	<0.006	<0.006	<0.006	<0.004	<0.005	
AUG 20...	10.8	203	0.44	<0.04	<0.06	<0.008	<0.02	0.052	<0.006	E.004	<0.006	<0.004	<0.005	
SEP 09...	11.4	209	0.39	<0.04	<0.06	<0.008	<0.02	0.045	<0.006	<0.006	<0.006	<0.004	<0.005	

NATIONAL WATER-QUALITY ASSESSMENT PROGRAM--Continued
 YELLOWSTONE RIVER BASIN
 Fixed Station Network

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT (LAT 47 40 42 LONG 104 09 22)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Atra- zine, water, fltrd, ug/L (39632)	Azin- phos- methyl, water, fltrd 0.7u GF ug/L (82686)	Ben- flur- alin, water, fltrd 0.7u GF ug/L (82673)	Butyl- ate, water, fltrd, ug/L (04028)	Car- baryl, water, fltrd 0.7u GF ug/L (82680)	Carbo- furan, water, fltrd 0.7u GF ug/L (82674)	Chlor- pyrifos water, fltrd, ug/L (38933)	cis- Per- methrin water fltrd 0.7u GF ug/L (82687)	Cyana- zine, water, fltrd, ug/L (04041)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipronil, water, fltrd, ug/L (62170)	Diazi- non, water, fltrd, ug/L (39572)	Diel- drin, water, fltrd, ug/L (39381)
OCT 03...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 12...	E.005	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.004	<0.005	<0.005
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	<0.007	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.004	<0.005	<0.005
FEB 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 18...	E.005	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.004	<0.005	<0.005
MAY 21...	0.009	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.004	<0.005	<0.005
JUN 17...	<0.007	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.004	<0.005	<0.005
JUL 16...	0.009	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.004	<0.005	<0.005
AUG 20...	0.007	<0.050	<0.010	<0.002	<0.041	<0.020	<0.005	<0.006	<0.018	<0.003	<0.004	<0.005	<0.005
SEP 09...	E.005	<0.050	<0.010	<0.002	<0.041	<0.020	--	<0.006	<0.018	<0.003	<0.004	--	<0.005
Date	Disul- foton, water, fltrd 0.7u GF ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal- flur- alin, water, fltrd 0.7u GF ug/L (82663)	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Desulf- inyl- fipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Fonofos water, fltrd, ug/L (04095)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)
OCT 03...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 12...	<0.02	<0.002	<0.009	<0.005	<0.009	<0.005	<0.005	<0.007	<0.003	<0.004	<0.035	<0.027	<0.006
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	<0.02	<0.002	<0.009	<0.005	<0.009	<0.005	<0.005	<0.007	<0.003	<0.004	<0.035	<0.027	<0.006
FEB 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 18...	<0.02	<0.020	<0.009	<0.005	<0.009	<0.005	<0.005	<0.007	<0.003	<0.004	<0.035	<0.027	<0.006
MAY 21...	<0.02	<0.002	<0.009	<0.005	<0.009	<0.005	<0.005	<0.007	<0.003	<0.004	<0.035	<0.027	<0.006
JUN 17...	<0.02	<0.002	<0.009	<0.005	<0.009	<0.005	<0.005	<0.007	<0.003	<0.004	<0.035	<0.027	<0.006
JUL 16...	<0.02	<0.002	<0.009	<0.005	<0.009	<0.005	<0.005	<0.007	<0.003	<0.004	<0.035	<0.027	<0.006
AUG 20...	<0.02	<0.002	<0.009	<0.005	<0.009	<0.005	<0.005	<0.007	<0.003	<0.004	<0.035	<0.027	<0.006
SEP 09...	--	<0.002	<0.009	--	<0.009	<0.005	<0.005	<0.007	--	<0.004	<0.035	--	--

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES
NATIONAL WATER-QUALITY ASSESSMENT PROGRAM--Continued
YELLOWSTONE RIVER BASIN

Fixed Station Network

06329500 YELLOWSTONE RIVER NEAR SIDNEY, MT (LAT 47 40 42 LONG 104 09 22)--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Moli- nate, water, fltrd 0.7u GF (82671)	Naprop- amide, water, fltrd 0.7u GF (82684)	p,p'- DDE, water, fltrd, ug/L (34653)	Para- thion, water, fltrd, ug/L (39542)	Peb- ulate, water, fltrd 0.7u GF (82669)	Pendi- meth- alin, water, fltrd 0.7u GF (82683)	Phorate water fltrd 0.7u GF (82664)	Prome- ton, water, fltrd, ug/L (04037)	Pron- amide, water, fltrd 0.7u GF (82676)	Propa- chlor, water, fltrd, ug/L (04024)	Pro- panil, water, fltrd 0.7u GF (82679)
OCT 03...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV 12...	<0.013	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	E.01	<0.004	<0.010	<0.011
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	<0.013	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011
FEB 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 18...	<0.013	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011
MAY 21...	<0.013	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011
JUN 17...	<0.013	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011
JUL 16...	0.019	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	<0.01	<0.004	<0.010	<0.011
AUG 20...	E.013	<0.006	<0.002	<0.007	<0.003	<0.010	<0.004	<0.022	<0.011	M	<0.004	<0.010	<0.011
SEP 09...	E.007	<0.006	<0.002	<0.007	<0.003	--	<0.004	<0.022	--	<0.01	<0.004	<0.010	<0.011

Date	Propar- gite, water, fltrd 0.7u GF (82685)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF (82670)	Terba- cil, water, fltrd 0.7u GF (82665)	Terbu- fos, water, fltrd 0.7u GF (82675)	Thio- bencarb water fltrd 0.7u GF (82681)	Tri- allate, water, fltrd 0.7u GF (82678)	Tri- flur- alin, water, fltrd 0.7u GF (82661)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concent- ration mg/L (80154)	Sus- pended sedi- ment load, tons/d (80155)
OCT 03...	--	--	--	--	--	--	--	--	96	60	797
NOV 12...	<0.02	<0.005	<0.02	<0.034	<0.02	<0.005	0.004	<0.009	96	75	1,080
DEC 11...	--	--	--	--	--	--	--	--	85	67	--
JAN 22...	<0.02	<0.005	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	99	66	--
FEB 19...	--	--	--	--	--	--	--	--	94	63	--
MAR 18...	<0.02	<0.005	<0.02	<0.034	<0.02	<0.005	0.008	<0.009	86	2,470	--
MAY 21...	<0.02	<0.005	<0.02	<0.034	<0.02	<0.005	0.006	<0.009	82	866	29,700
JUN 17...	<0.02	<0.005	<0.02	<0.034	<0.02	<0.005	0.006	<0.009	74	667	47,200
JUL 16...	<0.02	<0.005	<0.02	<0.034	<0.02	<0.005	0.003	<0.009	83	90	1,880
AUG 20...	<0.02	<0.005	<0.02	<0.034	<0.02	<0.005	<0.002	<0.009	97	35	170
SEP 09...	<0.02	<0.005	<0.02	<0.034	--	<0.005	0.004	<0.009	97	30	213

E -- Estimated value

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES
 NATIONAL WATER-QUALITY ASSESSMENT PROGRAM--Continued
 SOUTH PLATTE RIVER BASIN
 Urban Gradient Study

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410714104480101 CROW CREEK ABOVE MORRIE AVENUE, AT CHEYENNE, WY (LAT 41 07 14 LONG 104 48 01)

WATER-QUALITY DATA, OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Chloride, water, fltrd, mg/L (00940)	Sulfate, water, fltrd, mg/L (00945)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
JUN 2003 05...	1000	5.6	610	7.6	7.6	604	11.0	11.5	53.5	33.8	0.81	<0.04	1.30
AUG 19...	1030	1.0	611	5.9	7.3	611	--	17.0	48.2	33.9	1.4	<0.04	0.99
Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Particulate nitrogen, susp, water, mg/L (49570)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	E coli, modif. m-TEC, water, col/100 mL (90902)	1-Naphthol, water, fltrd 0.7u GF ug/L (49295)	2,6-Diethyl-aniline water fltrd 0.7u GF ug/L (82660)	2-[(2-Et-6-Me-Ph)-amino]propan-1-ol, fltrd, ug/L (61615)	2Chloro-2,6-' diethyl acet-anilide wat flt ug/L (61618)
JUN 2003 05...	0.035	0.02	0.14	0.116	1.3	<0.1	1.3	7.5	830	<0.09	<0.006	<0.1	<0.005
AUG 19...	0.095	0.02	0.20	0.095	1.3	<0.1	1.3	25.2	E12000	E.08	<0.006	<0.1	<0.005
Date	CIAT, water, fltrd, ug/L (04040)	2-Ethyl-6-methyl-aniline water, fltrd, ug/L (61620)	3,4-Dichloro-aniline water, fltrd, ug/L (61625)	4Chloro-2methyl phenol, water, fltrd, ug/L (61633)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	Atrazine, water, fltrd, ug/L (39632)	Azin-phos-methyl oxon, water, fltrd, ug/L (61635)	Azin-phos-methyl, water, fltrd 0.7u GF ug/L (82686)	Ben-fluralin, water, fltrd 0.7u GF ug/L (82673)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Chlorpyrifos oxon, water, fltrd, ug/L (61636)	Chlorpyrifos water, fltrd, ug/L (38933)
JUN 2003 05...	E.013	<0.004	0.054	<0.025	<0.006	<0.004	0.021	<0.02	<0.050	<0.010	E.013	<0.06	<0.006
AUG 19...	<0.006	<0.004	<0.004	E.052	<0.006	<0.004	<0.007	<0.02	<0.050	<0.010	E1.08	<0.06	<0.035
Date	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	Cyfluthrin, water, fltrd, ug/L (61585)	Cypermethrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf-inyl fipronil, water, fltrd, ug/L (62170)	Diazinon oxon, water, fltrd, ug/L (61638)	Diazinon, water, fltrd, ug/L (39572)	Dicrotophos, water, fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenami-phos sulfone water, fltrd, ug/L (61645)
JUN 2003 05...	<0.006	<0.008	<0.009	0.003	<0.004	<0.01	0.019	<0.08	<0.005	<0.006	<0.03	<0.004	<0.008
AUG 19...	<0.006	<0.008	<0.009	0.044	<0.004	<0.01	0.047	<0.08	<0.005	<0.006	<0.03	<0.004	<0.008
Date	Fenami-phos sulf-oxide, water, fltrd, ug/L (61646)	Fenami-phos, water, fltrd, ug/L (61591)	Desulf-inyl-fipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos, water, fltrd, ug/L (04095)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofen-phos, water, fltrd, ug/L (61594)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)
JUN 2003 05...	<0.03	<0.03	<0.009	<0.005	<0.005	<0.007	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027
AUG 19...	<0.03	<0.03	<0.009	<0.005	<0.005	<0.007	<0.002	<0.003	<0.013	<1	<0.003	E.204	0.164

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES
NATIONAL WATER-QUALITY ASSESSMENT PROGRAM--Continued
SOUTH PLATTE RIVER BASIN
Urban Gradient Study

410714104480101 CROW CREEK ABOVE MORRIE AVENUE, AT CHEYENNE, WY (LAT 41 07 14 LONG 104 48 01)--Continued

Date	Meta- laxyl, water, fltrd, ug/L (61596)	Methi- althion water, fltrd, ug/L (61598)	Methyl para- oxon, water, fltrd, ug/L (61664)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Myclo- butanil water, fltrd, ug/L (61599)	Pendi- meth- alin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prome- ton, water, fltrd, ug/L (04037)
JUN 2003 05...	<0.005	<0.006	<0.03	<0.006	<0.013	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	0.04
AUG 19...	<0.005	<0.006	<0.03	<0.006	<0.013	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	1.42
Date	Prome- tryn, water, fltrd, ug/L (04036)	Pron- amide, water, fltrd 0.7u GF ug/L (82676)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)	Ter- bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Ter- buthyl- azine, water, fltrd, ug/L (04022)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Di- chlor- vos, water fltrd, ug/L (38775)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment load, tons/d (80155)	
JUN 2003 05...	<0.005	<0.004	<0.010	<0.04	<0.07	<0.02	<0.01	<0.009	<0.01	98	16	0.24	
AUG 19...	<0.005	<0.004	<0.006	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	100	7	0.02	

E -- Estimated value

NATIONAL WATER-QUALITY ASSESSMENT PROGRAM--Continued
SOUTH PLATTE RIVER BASIN
Urban Gradient Study

413659104370001 BEAR CREEK ABOVE LITTLE BEAR CREEK, NEAR LITTLE BEAR, WY (LAT 41 36 59 LONG 104 37 00)

WATER-QUALITY DATA, OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd fld, std units (00400)	Specif. conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Chloride, water, fltrd, mg/L (00940)	Sulfate, water, fltrd, mg/L (00945)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	
Date		Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Particulate nitrogen, susp, water, mg/L (49570)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	E coli, modif. m-TEC, water, col/100 mL (90902)	1-Naphthol, water, fltrd 0.7u GF ug/L (49295)	2,6-Diethyl-aniline water fltrd 0.7u GF ug/L (82660)	2-[(2-Et-6-Me-Ph)-amino]propan-1-ol, ug/L (61615)	2Chloro-2,6-diethyl acetanilide wat flt ug/L (61618)
Date		CIAT, water, fltrd, ug/L (04040)	2-Ethyl-6-methyl-aniline water, fltrd, ug/L (61620)	3,4-Dichloro-aniline water fltrd, ug/L (61625)	4Chloro-2methyl phenol, water, fltrd, ug/L (61633)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor, water, fltrd, ug/L (46342)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl oxon, water, fltrd, ug/L (61635)	Azin-phos-methyl, water, fltrd 0.7u GF ug/L (82686)	Ben-flur-alin, water, fltrd 0.7u GF ug/L (82673)	Car-baryl, water, fltrd 0.7u GF ug/L (82680)	Chlor-pyrifos oxon, water, fltrd, ug/L (61636)	Chlor-pyrifos water, fltrd, ug/L (38933)
OCT 2002	25...	<0.008	<0.02	<0.02	E.003	0.1	<0.1	0.1	1.6	E3k	<0.09	<0.006	<0.1	<0.005
DEC	11...	<0.008	E.02	<0.02	E.002	<0.1	<0.1	<0.1	1.6	11	<0.09	<0.006	<0.1	<0.005
FEB 2003	12...	<0.008	<0.02	<0.02	E.004	<0.1	<0.1	<0.1	1.7	1	<0.09	<0.006	<0.1	<0.005
APR	02...	<0.008	<0.02	0.03	0.005	0.2	<0.1	0.2	2.4	<1	<0.09	<0.006	<0.1	<0.005
JUN	03...	<0.008	<0.02	0.03	0.007	0.3	<0.1	0.3	2.7	E16k	<0.09	<0.006	<0.1	<0.005
AUG	20...	<0.008	<0.02	0.03	0.007	0.2	<0.1	0.2	2.6	41	<0.09	<0.006	<0.1	<0.005
OCT 2002	25...	<0.006	<0.004	<0.004	<0.006	<0.006	<0.004	<0.007	<0.02	<0.050	<0.010	<0.041	<0.06	<0.005
DEC	11...	<0.006	<0.004	<0.004	<0.006	<0.006	<0.004	<0.007	<0.02	<0.050	<0.010	<0.041	<0.06	<0.005
FEB 2003	12...	<0.006	<0.004	<0.004	<0.006	<0.006	<0.004	<0.007	<0.02	<0.050	<0.010	<0.041	<0.06	<0.005
APR	02...	<0.006	<0.004	<0.004	<0.006	<0.006	<0.004	<0.007	<0.02	<0.050	<0.010	<0.041	<0.06	<0.005
JUN	03...	<0.006	<0.004	<0.004	<0.006	<0.006	<0.004	<0.007	<0.03	<0.050	<0.010	<0.041	<0.06	<0.005
AUG	20...	<0.006	<0.004	<0.004	<0.006	<0.006	<0.004	<0.007	<0.02	<0.050	<0.010	<0.041	<0.06	<0.005

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES
NATIONAL WATER-QUALITY ASSESSMENT PROGRAM--Continued
SOUTH PLATTE RIVER BASIN
Urban Gradient Study

413659104370001 BEAR CREEK ABOVE LITTLE BEAR CREEK, NEAR PHILLIPS, WY (LAT 41 36 59N LONG 104 37 00W)--Continued

WATER-QUALITY DATA, OCTOBER 2002 TO SEPTEMBER 2003

Date	cis-Permethrin water fltrd 0.7u GF (82687)	Cyfluthrin, water, fltrd, ug/L (61585)	Cypermethrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon oxon, water, fltrd, ug/L (61638)	Diazinon, water, fltrd, ug/L (39572)	Dicrotophos, water, fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethoate, water, fltrd 0.7u GF (82662)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenamiphos sulfone water, fltrd, ug/L (61645)
OCT 2002 25...	<0.006	<0.008	<0.009	<0.003	<0.004	--	<0.005	<0.08	<0.005	<0.006	<0.03	<0.004	<0.008
DEC 11...	<0.006	<0.008	<0.009	<0.003	<0.004	<0.04	<0.005	<0.08	<0.005	<0.006	<0.03	<0.004	<0.008
FEB 2003 12...	<0.006	<0.008	<0.009	<0.003	<0.004	<0.04	<0.005	<0.08	<0.005	<0.006	<0.03	<0.004	<0.008
APR 02...	<0.006	<0.008	<0.009	<0.003	<0.004	<0.04	<0.005	<0.08	<0.005	<0.006	<0.03	<0.004	<0.008
JUN 03...	<0.006	<0.008	<0.009	<0.003	<0.004	<0.01	<0.005	<0.08	<0.005	<0.006	<0.03	<0.004	<0.008
AUG 20...	<0.006	<0.008	<0.009	<0.003	<0.004	<0.01	<0.005	<0.08	<0.005	<0.006	<0.03	<0.004	<0.008
Date	Fenamiphos sulf-oxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Desulfinyl-fipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofenphos, water, fltrd, ug/L (61594)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)
OCT 2002 25...	<0.03	<0.03	<0.009	<0.005	<0.005	<0.007	<0.002	<0.003	--	<1	<0.003	<0.008	<0.027
DEC 11...	<0.03	<0.03	<0.009	<0.005	<0.005	<0.007	<0.002	<0.003	--	<1	<0.003	<0.008	<0.027
FEB 2003 12...	<0.03	<0.03	<0.009	<0.005	<0.005	<0.007	<0.002	<0.003	--	<1	<0.003	<0.008	<0.027
APR 02...	<0.03	<0.03	<0.009	<0.005	<0.005	<0.007	<0.002	<0.003	--	<1	<0.003	<0.008	<0.027
JUN 03...	<0.03	<0.03	<0.009	<0.005	<0.005	<0.007	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027
AUG 20...	<0.03	<0.03	<0.009	<0.005	<0.005	<0.007	<0.002	<0.003	<0.013	<1	<0.003	<0.008	<0.027
Date	Metaxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)	Methyl para-oxon, water, fltrd, ug/L (61664)	Methyl para-thion, water, fltrd 0.7u GF (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Myclobutanil water, fltrd, ug/L (61599)	Pendimethalin, water, fltrd 0.7u GF (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)
OCT 2002 25...	<0.005	<0.006	<0.03	<0.006	<0.013	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
DEC 11...	<0.005	<0.006	<0.03	<0.006	<0.013	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
FEB 2003 12...	<0.005	<0.006	<0.03	<0.006	<0.013	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
APR 02...	<0.005	<0.006	<0.03	<0.006	<0.013	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
JUN 03...	<0.005	<0.006	<0.03	<0.006	<0.013	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01
AUG 20...	<0.005	<0.006	<0.03	<0.006	<0.013	<0.006	<0.008	<0.022	<0.10	<0.011	<0.06	<0.008	<0.01

ANALYSIS OF SAMPLES COLLECTED AT SPECIAL STUDY AND MISCELLANEOUS SITES
 NATIONAL WATER-QUALITY ASSESSMENT PROGRAM--Continued
 SOUTH PLATTE RIVER BASIN
 Urban Gradient Study

413659104370001 BEAR CREEK ABOVE LITTLE BEAR CREEK, NEAR PHILLIPS, WY (LAT 41 36 59N LONG 104 37 00W)--Continued

WATER-QUALITY DATA, OCTOBER 2002 TO SEPTEMBER 2003

Date	Prometryn, water, fltrd, ug/L (04036)	Pronamide, water, fltrd, 0.7u GF ug/L (82676)	Simazine, water, fltrd, ug/L (04035)	Tebu-thiuron water fltrd, 0.7u GF ug/L (82670)	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbufos, water, fltrd, 0.7u GF ug/L (82675)	Terbutylazine, water, fltrd, ug/L (04022)	Tri-fluralin, water, fltrd, 0.7u GF ug/L (82661)	Di-chlorvos, water fltrd, ug/L (38775)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment load, tons/d (80155)
OCT 2002												
25...	<0.005	<0.004	<0.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	--	5	0.07
DEC												
11...	<0.005	<0.004	<0.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	54	51	0.67
FEB 2003												
12...	<0.005	<0.004	<0.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	85	13	0.15
APR												
02...	<0.005	<0.004	<0.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	80	24	0.56
JUN												
03...	<0.005	<0.004	<0.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	82	12	0.13
AUG												
20...	<0.005	<0.004	<0.005	<0.02	<0.07	<0.02	<0.01	<0.009	<0.01	100	4	0.03

E -- Estimated value

k -- Counts outside acceptable range (Non-ideal colony count)

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Conversion Factors

Multiply	By	To obtain
Length		
inch (in.)	2.54×10^1	millimeter (mm)
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter (m)
mile (mi)	1.609×10^0	kilometer (km)
Area		
acre	4.047×10^3	square meter (m ²)
	4.047×10^{-1}	square hectometer (hm ²)
	4.047×10^{-3}	square kilometer (km ²)
square mile (mi ²)	2.590×10^0	square kilometer (km ²)
Volume		
gallon (gal)	3.785×10^0	liter (L)
	3.785×10^{-3}	cubic meter (m ³)
	3.785×10^0	cubic decimeter (dm ³)
million gallons (Mgal)	3.785×10^3	cubic meter (m ³)
	3.785×10^{-3}	cubic hectometer (hm ³)
cubic foot (ft ³)	2.832×10^{-2}	cubic meter (m ³)
	2.832×10^1	cubic decimeter (dm ³)
cubic-foot-per-second-per-day [(ft ³ /s/d)]	2.447×10^3	cubic meter (m ³)
	2.447×10^{-3}	cubic hectometer (hm ³)
acre-foot (acre-ft)	1.223×10^3	cubic meter (m ³)
	1.223×10^{-3}	cubic hectometer (hm ³)
	1.223×10^{-6}	cubic kilometer (km ³)
Flow rate		
cubic foot per second (ft ³ /s)	2.832×10^1	liter (L/s)
	2.832×10^{-2}	cubic meter per second (m ³ /s)
	2.832×10^1	cubic decimeter per second (dm ³ /s)
gallon per minute (gal/min)	6.309×10^{-2}	liter per second (L/s)
	6.309×10^{-5}	cubic meter per second (m ³ /s)
	6.309×10^{-2}	cubic decimeter per second (dm ³ /s)
million gallons per day (Mgal/d)	4.381×10^{-2}	cubic meter per second
	4.381×10^1	cubic decimeter per second (dm ³ /s)
Mass		
ton, short (2,000 lb)	9.072×10^{-1}	megagram (Mg) or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$^{\circ}\text{F} = (1.8 \times ^{\circ}\text{C}) + 32$$


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