

MISCELLANEOUS WATER QUALITY DATA

00430061 HURON WELL FIELD
(National Trends Network Acid Precipitation Station)

LOCATION.--Lat 44°21'18", long 98°17'27", 3.0 mi west of the City of Huron at the City of Huron Municipal Well Field.

PRECIPITATION RECORDS

PERIOD OF RECORD.--December 1983 to current year.

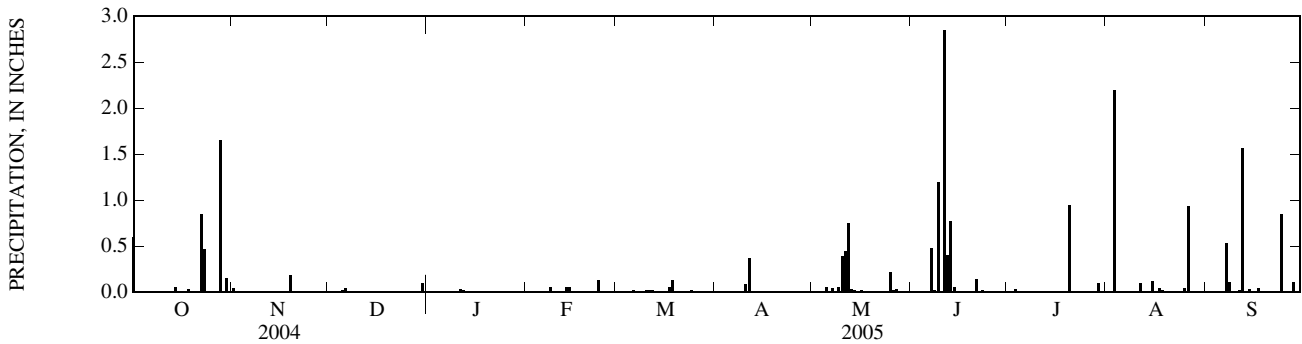
INSTRUMENTATION.--The sample collector is a straight-sided polyethylene bucket that is triggered into opening and closing by a precipitation switch, and a shielded weighing-type precipitation recorder. Installation and equipment conforms to guidelines set by National Atmospheric Deposition Program.

REMARKS.--Records good. Field measurements are taken as part of the National Atmospheric Deposition Program and National Trends Network (NADP/NTN).

PRECIPITATION, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.60	0.04	0.00	<0.01	0.00	0.00	0.00	<0.01	---	0.00	---	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	---	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.03	2.20	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	---
5	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.06	---	0.00	0.00	---
6	0.00	0.00	0.04	0.00	0.00	0.02	0.00	0.00	---	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.48	<0.01	0.00	0.53
8	0.00	0.00	0.00	<0.01	0.06	<0.01	0.00	0.01	0.02	0.00	0.00	0.11
9	0.00	0.00	0.00	<0.01	0.00	<0.01	<0.01	0.06	1.20	0.00	0.00	0.00
10	0.00	0.00	0.00	---	0.00	0.02	0.09	0.39	<0.01	0.00	<0.01	0.00
11	0.00	0.00	<0.01	0.03	0.00	0.02	0.37	0.45	2.85	0.00	0.10	0.02
12	0.00	0.00	0.00	0.02	0.00	0.02	<0.01	0.75	0.40	<0.01	<0.01	1.56
13	<0.01	0.00	0.00	0.00	0.06	0.00	0.00	0.03	0.77	<0.01	0.00	0.00
14	0.05	0.00	0.00	0.00	0.05	0.00	0.00	0.02	0.05	0.00	0.00	0.03
15	0.00	0.00	<0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	<0.01	0.02	0.00	0.00	0.00	0.01
17	0.00	0.00	0.00	0.00	0.00	0.05	0.00	---	0.00	<0.01	0.04	0.04
18	0.03	0.00	<0.01	<0.01	0.00	0.13	0.00	---	0.00	0.00	0.02	---
19	0.00	0.18	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	---
20	0.01	0.00	<0.01	0.00	0.01	0.00	0.00	---	---	0.95	0.00	---
21	<0.01	0.00	0.00	<0.01	0.00	<0.01	<0.01	---	0.14	---	0.00	0.00
22	0.85	0.00	<0.01	0.00	0.00	0.00	0.00	---	<0.01	---	0.00	0.00
23	0.47	0.00	0.00	0.00	0.13	0.00	0.00	---	0.02	---	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.02	0.00	<0.01	---	---	0.00	0.85
25	0.00	<0.01	<0.01	0.00	0.00	0.00	<0.01	0.22	---	---	0.04	---
26	0.00	<0.01	0.00	0.00	0.00	0.00	<0.01	0.02	---	---	0.94	---
27	0.00	0.00	0.00	<0.01	0.00	0.00	<0.01	0.03	---	0.00	0.00	0.01
28	1.65	0.00	0.00	<0.01	0.00	0.00	0.00	0.00	---	0.00	0.00	0.11
29	0.00	0.00	0.00	0.01	---	0.00	0.00	0.00	<0.01	0.10	0.00	0.00
30	0.15	0.00	0.10	<0.01	---	0.00	<0.01	0.00	<0.01	<0.01	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	<0.01	0.00	---
TOTAL	3.83	0.24	0.22	---	0.31	0.31	0.54	---	---	---	---	---
CAL YR	2004	TOTAL	24.91									

< Actual value is known to be less than the value shown



00430061 HURON WELL FIELD—Continued
(National Trends Network Acid Precipitation Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1983 to current year (weekly composite).

REMARKS.--Field measurements are taken and samples collected on a weekly basis as part of the National Atmospheric Deposition Program (NADP) and National Trends Network. Precipitation water-quality laboratory analyses are performed by the Central Analytical Laboratory (CAL), Illinois State Water Survey, Champaign, Illinois. The records of precipitation and precipitation water-quality presented below are from the National Atmospheric Deposition Program (NRSP-3)/National Trends Network, NADP Program Office, Illinois State Water Survey, 2204 Griffith Drive, Champaign, IL 61820. These records were retrieved from the Internet on Feb. 17, 2006, at <http://nadp.sws.uiuc.edu>; the data were not reviewed for accuracy or consistency by the South Dakota Water Science Center of the USGS.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Precipitation total for defined period, inches (00193)	Atm dep wet, liters (83177)	Specif. conductance, wet dep unfltrd field, uS/cm (83154)	Specif. conductance, wet dep unfltrd lab, uS/cm (83156)	pH, wet atm dep unfltrd field, std units (83106)	pH, wet atm dep unfltrd lab, std units (83107)	Calcium wet atm dep fltrd, mg/L (82932)	Magnesium, wet atm dep fltrd, mg/L (83002)	Sodium, wet atm dep fltrd, mg/L (83138)	Potassium, wet atm dep fltrd, mg/L (83120)	Sulfate wet atm dep fltrd, mg/L (83160)	Chloride, wet atm dep fltrd, mg/L (82944)	Ammonia wet atm dep fltrd, mg/L as NH4 (83047)	Nitrate wet atm dep fltrd, mg/L (83071)
OCT 05-12	0.00	0.000	--	--	--	--	--	--	--	--	--	--	--	--
OCT 12-19	0.08	0.165	12.5	11.9	5.80	6.5	0.67	0.12	0.04	0.04	1.72	0.05	0.680	1.44
OCT 19-26	1.33	2.227	6.9	6.3	4.72	6.5	0.10	0.01	0.01	0.02	0.46	0.02	0.700	0.81
OCT 26-NOV 02	1.84	3.126	5.9	6.7	5.86	6.5	0.07	0.01	0.01	0.01	0.66	0.02	0.750	0.78
NOV 02-09	0.00	0.000	--	--	--	--	--	--	--	--	--	--	--	--
NOV 09-16	0.00	0.000	--	--	--	--	--	--	--	--	--	--	--	--
NOV 16-23	0.18	0.286	4.9	5.4	6.05	6.6	0.19	0.04	0.01	0.01	0.33	0.02	0.440	0.59
NOV 23-30	<0.01	0.014	--	--	--	6.5	--	--	--	--	--	--	--	--
NOV 30-DEC 07	0.06	0.065	--	--	--	5.9	0.38	0.06	0.02	0.02	3.02	0.10	2.10	4.68
DEC 07-14	<0.01	0.000	--	--	--	--	--	--	--	--	--	--	--	--
DEC 14-21	<0.01	0.018	--	--	--	--	--	--	--	--	--	--	--	--
DEC 21-28	<0.01	<0.010	--	--	--	--	--	--	--	--	--	--	--	--
DEC 28														
JAN 04	0.10	0.183	--	--	--	6.8	0.37	0.03	0.04	0.03	0.83	0.05	1.25	1.39
JAN 04-11	<0.01	0.066	--	--	--	4.6	0.37	0.07	0.07	0.02	1.44	0.11	0.870	4.73
JAN 11-18	0.05	0.090	--	--	--	5.2	0.06	0.01	0.01	0.01	0.32	0.03	0.200	0.82
JAN 18-25	<0.01	<0.010	--	--	--	--	--	--	--	--	--	--	--	--
JAN 25-FEB 01	<0.01	<0.010	--	--	--	--	--	--	--	--	--	--	--	--
FEB 01-08	0.06	0.083	--	--	--	5.6	0.13	0.03	0.01	M	0.08	0.02	0.110	0.96
FEB 08-15	0.11	0.233	--	--	--	6.7	0.04	0.01	0.01	0.01	0.30	0.02	0.890	0.61
FEB 15-22	<0.01	<0.010	--	--	--	--	--	--	--	--	--	--	--	--
FEB 22-MAR 01	0.13	0.068	--	10.2	--	6.6	0.17	0.03	0.02	0.01	0.84	0.04	1.04	1.26
MAR 01-08	0.02	0.027	--	--	--	6.4	0.26	0.03	0.03	0.04	2.42	0.05	1.98	1.57
MAR 08-15	0.06	0.123	--	--	--	6.8	1.00	0.23	0.09	0.10	1.39	0.10	1.05	1.94
MAR 15-22	0.18	<0.010	--	--	--	--	--	--	--	--	--	--	--	--
MAR 22-29	0.02	0.081	--	30.7	--	6.8	0.64	0.09	0.06	0.03	2.48	0.13	3.37	5.22
MAR 29-APR 05	0.00	0.000	--	--	--	--	--	--	--	--	--	--	--	--
APR 05-12	0.46	0.861	--	--	--	6.6	0.59	0.05	0.12	0.04	1.60	0.10	1.47	1.64
APR 12-19	<0.01	0.054	--	--	--	6.7	1.71	0.17	0.20	0.08	5.16	0.19	3.45	7.14
APR 19-26	<0.01	<0.010	--	--	--	--	--	--	--	--	--	--	--	--
APR 26-MAY 03	<0.01	0.000	--	--	--	--	--	--	--	--	--	--	--	--
MAY 03-10	0.53	0.919	--	--	--	6.8	0.34	0.07	0.02	0.05	0.56	0.03	1.13	0.86

MISCELLANEOUS WATER QUALITY DATA

00430061 HURON WELL FIELD—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Precipitation total for defined period, inches (00193)	Atm dep wet, liters (83177)	Specif. conductance, wet dep unfltrd field, uS/cm (83154)	Specif. conductance, wet dep unfltrd lab, uS/cm (83156)	pH, wet atm dep unfltrd field, std units (83106)	pH, wet atm dep unfltrd lab, std units (83107)	Calcium wet atm dep fltrd, mg/L (82932)	Magnesium, wet atm dep fltrd, mg/L (83002)	Sodium, wet atm dep fltrd, mg/L (83138)	Potassium, wet atm dep fltrd, mg/L (83120)	Sulfate wet atm dep fltrd, mg/L (83160)	Chloride, wet atm dep fltrd, mg/L (82944)	Ammonia wet atm dep fltrd, mg/L as NH4 (83047)	Nitrate wet atm dep fltrd, mg/L (83071)
MAY 10-16	1.30	2.379	--	--	--	6.2	0.11	0.02	0.02	0.01	0.65	0.04	0.730	0.81
MAY 10-17	1.30	2.379	--	--	--	6.2	0.11	0.02	0.02	0.01	0.65	0.04	0.730	0.81
MAY 16-24	<0.01	0.334	--	--	--	6.3	0.30	0.04	0.02	0.05	0.66	0.05	0.570	1.23
MAY 17-24	--	0.334	--	--	--	6.3	0.30	0.04	0.02	0.05	0.66	0.05	0.570	1.23
MAY 24-31	0.27	0.479	--	--	--	6.7	0.53	0.12	0.03	0.03	1.01	0.05	1.39	2.04
MAY 31-JUN 07	<0.01	3.022	--	--	--	5.9	0.10	0.02	0.01	0.01	0.72	0.03	0.590	0.96
JUN 07-14	<0.01	10.233	--	--	--	5.6	0.05	0.01	0.02	0.01	0.57	0.03	0.400	0.78
JUN 14-21	<0.01	0.813	--	--	--	6.7	0.96	0.15	0.07	0.06	1.26	0.11	1.30	1.94
JUN 21-28	<0.01	0.296	--	10.0	--	5.8	0.33	0.05	0.05	0.04	1.04	0.10	0.740	1.75
JUN 28-JUL 05	0.03	0.051	--	--	--	6.5	2.01	0.23	0.18	0.39	3.47	0.39	2.65	6.00
JUL 05-12	--	0.000	--	--	--	--	--	--	--	--	--	--	--	--
JUL 12-19	--	0.002	--	--	--	--	--	--	--	--	--	--	--	--
JUL 19-26	--	2.094	--	10.5	--	6.8	0.30	0.04	0.04	0.05	0.83	0.07	0.980	1.52
JUL 26-AUG 02	0.14	0.189	--	--	--	--	--	--	--	--	--	--	--	--

< Less than

M Presence verified but not quantified

The following water-quality data are for a sewage lagoon and a reservoir at EROS Data Center, and private wells downgradient of EROS Data Center near Garretson, South Dakota. Water samples are routinely collected one time per year as part of a monitoring program with the EROS Data Center.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Station name	Date	Time	Specif. conductance, wat unfltrd 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Turbidity, IR LED light, det ang 90 deg, FNU (63680)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
LAGOON 1	05-04-05	0915	1,360	8.7	8.0	9.7	29	737	11.6	106	35.0
EROS LAKE	05-04-05	1105	767	8.9	15.0	9.6	0.7	730	13.9	128	--
103N48W 5CACA2	05-03-05	1500	1,130	7.3	15.5	9.5	8.5	737	3.8	35	--
103N48W 9CCDA	05-03-05	1300	1,100	7.0	14.5	9.1	0.0	739	9.9	89	--
103N48W17ACCC2	05-03-05	1035	836	7.5	10.0	9.5	0.0	740	0.9	9	--

Station name	Date	COD, high level, water, unfltrd mg/L (00340)	Alkalinity, wat flt inc tit mg/L as CaCO3 (39086)	Bicarbonate, wat flt incm. titr., field, mg/L (00453)	Carbonate, wat flt incm. titr., field, mg/L (00452)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrate water, fltrd, mg/L as N (00618)	Orthophosphate, water, fltrd, mg/L as P (00671)
LAGOON #1 AT	05-04-05	120	83	97	2	899	10.5	1.24	15.6	14.3	3.31
EROS LAKE	05-04-05	30	264	299	11	477	<0.04	<0.008	<0.06	--	0.06
103N48W 5CACA2	05-03-05	<10	283	344	0.0	641	<0.04	<0.008	1.74	--	<0.02
103N48W 9CCDA	05-03-05	<10	404	491	0.0	679	<0.04	<0.008	21.1	--	0.02
103N48W17ACCC2	05-03-05	<10	336	409	0.0	553	0.21	<0.008	<0.06	--	<0.02

Station name	Date	Aluminum, water, unfltrd recover -able, ug/L (01105)	Boron, water, unfltrd recover -able, ug/L (01022)	Bromide water, fltrd, mg/L (71870)	Chromium, water, fltrd, ug/L (01030)	Cyanide water unfltrd mg/L (00720)	Iodide water, fltrd, mg/L (71865)	Iron, water, unfltrd recover -able, ug/L (01045)	Silver, water, unfltrd recover -able, ug/L (01077)	Silver, water, fltrd, ug/L (01075)	Zinc, water, unfltrd recover -able, ug/L (01092)
LAGOON #1 AT	05-04-05	117	325	4.29	2.2	0.01	0.054	710	70.8	0.9	81
EROS LAKE	05-04-05	8	190	3.45	<0.8	<0.01	0.022	30	<0.3	<0.3	E1
103N48W 5CACA2	05-03-05	5	150	0.16	<0.8	<0.01	0.003	340	<0.3	<0.3	15
103N48W 9CCDA	05-03-05	E2	46	0.32	1.4	<0.01	0.005	10	<0.3	<0.3	31
103N48W17ACCC2	05-03-05	<2	238	0.23	<0.8	<0.01	0.007	190	<0.3	<0.3	16

< Less than.

E Estimated value.

430419098401600 LAKE FRANCIS CASE NEAR LAKE ANDES, SD

LOCATION.--Lat 43°04'14", long 98°40'16", in SE¼ sec.5, T.95 N., R.66 E., Charles Mix County, Hydrologic Unit 10140101, about 6 mi west of Ft. Randall Dam.

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--For all samples collected during water year 2005, a total water column depth-integrated sample and a discrete near-bottom sample were collected. On Sept. 12, 2005, a blank sample also was collected for quality-control purposes.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Specif. conductance, wat unfiltered, 25 degC (00095)	pH, water, unfiltered, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Turbidity, IR LED light, det ang 90 deg, FNU (63680)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Noncarbon hardness, water, mg/L as CaCO3 (00904)	Alkalinity, water, mg/L as CaCO3 (39086)	ANC, water, mg/L as CaCO3 (90410)
OCT													
a25...	1300	687	8.3	11.0	15.4	1.6	736	9.8	102	230	75	152	162
b25...	1305	687	8.3	11.0	15.4	1.6	736	9.8	102	230	75	152	160
MAR													
a16...	1235	719	8.2	5.0	2.7	2.5	733	14.1	108	240	72	164	168
b16...	1250	719	8.2	5.0	2.7	--	733	14.1	108	240	--	--	168
APR													
a18...	1300	699	8.1	18.0	6.2	0.4	725	13.4	114	240	81	161	162
b18...	1305	703	7.9	18.0	5.8	1.6	725	14.1	119	240	--	--	162
MAY													
a10...	1045	710	8.5	15.0	9.4	1.6	730	11.6	106	230	67	166	160
b10...	1050	713	8.6	15.0	8.4	2.1	730	11.4	102	230	69	165	161
JUL													
a18...	1230	727	8.2	26.0	23.8	1.5	731	7.5	93	220	67	156	138
b18...	1235	723	8.2	26.0	19.7	2.0	731	6.6	75	230	72	158	153
SEP													
a12...	1145	742	8.2	25.0	23.9	1.5	725	7.8	98	230	81	152	151
b12...	1150	742	8.2	25.0	24.0	1.8	725	7.7	97	230	81	152	153

Date	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Pheophytin a, phytoplankton, ug/L (62360)	Calcium water, filtered, mg/L (00915)	Magnesium water, filtered, mg/L (00925)	Sodium water, filtered, mg/L (00930)	Sodium, percent (00932)	Sodium adsorption ratio (00931)	Potassium water, filtered, mg/L (00935)	Bicarbonate, water, filtered, titr., field, mg/L (00453)	Carbonate, water, filtered, titr., field, mg/L (00452)	Sulfate water, filtered, mg/L (00945)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)
OCT													
a25...	2.8	1.5	53.7	22.5	66.3	38	2	5.15	180	2	179	10.7	0.6
b25...	--	--	53.8	22.4	66.2	38	2	5.02	180	2	178	10.6	0.6
MAR													
a16...	E3.6	E2.3	57.4	22.5	68.6	38	2	4.87	196	2	185	10.9	0.6
b16...	--	--	56.9	22.6	67.8	38	2	4.91	--	--	186	10.9	0.6
APR													
a18...	1.2	0.7	59.3	22.7	67.2	37	2	5.18	192	2	182	10.9	0.6
b18...	--	--	60.4	22.6	68.3	37	2	5.10	--	--	183	11.0	0.6
MAY													
a10...	1.5	0.5	56.1	22.7	63.8	37	2	4.70	197	3	181	10.7	0.6
b10...	--	--	56.8	22.4	64.7	37	2	4.69	194	3	181	10.8	0.6
JUL													
a18...	1.6	0.2	55.0	21.0	68.2	39	2	5.36	191	--	194	11.2	0.6
b18...	--	--	56.4	21.6	69.6	39	2	5.42	186	3	193	11.3	0.6
SEP													
a12...	2.2	0.8	56.5	22.2	69.9	39	2	5.35	185	--	199	11.7	0.7
b12...	--	--	56.6	22.2	69.8	39	2	5.44	185	--	199	11.7	0.7

MISCELLANEOUS WATER QUALITY DATA

430419098401600 LAKE FRANCIS CASE NEAR LAKE ANDES, SD—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ortho- phosphate, water, fltrd, mg/L as P (00671)
SEP c12...	1140	<0.02	<0.008	<0.20	<0.010	<0.01	0.34	<0.01	d2.52	E005	<0.002	<0.016	<0.006
Date		Arsenic water, fltrd, ug/L (01000)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Selenium, water, fltrd, ug/L (01145)	Zinc, water, fltrd, ug/L (01090)						
SEP c12...		<0.12	<6	<0.2	<0.4	<0.08	<0.60						

- < Less than.
- a Total water column depth-integrated sample.
- b Discrete near-bottom sample.
- c Field blank collected for quality-control purposes.
- d Questionable value, additional quality assurance requested.
- E Estimated value.

MISCELLANEOUS WATER QUALITY DATA

The following water-quality data were collected at three locations within the State of South Dakota during 2004. Water samples were collected as part of a regional study of water quality and stream biology to assess landscape indicators for pesticides, nutrients, and aquatic biological conditions in small streams in the Midwest. This study is part of a long-term cooperative national research effort between the USEPA and the USGS, termed Landscape Investigations for Pesticides Study (LIPS). The water-quality results available in 2004 were published in the Water Resources Data, South Dakota, Water Year 2004 report. The bed-sediment results data below were not available at that time.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Station name	Date	Time	Bed sediment, dry svd sve dia percent <.063mm (80164)	Bed sediment, dry svd sve dia percent <.125mm (80165)	Bed sediment, dry svd sve dia percent <.25mm (80166)	Bed sediment, dry svd sve dia percent <.5 mm (80167)	Bed sediment, dry svd sve dia percent <1 mm (80168)	Bed sediment, dry svd sve dia percent <2 mm (80169)
LITTLE BEAVER CREEK NEAR CANTON, SD	09-10-04	1401	35	42	53	75	92	100
UNNAMED TRIB TO N.FK. YELLOWBANK R NR MILBANK, SD	10-07-04	1402	41	50	67	83	96	100
UNNAMED TRIB TO E.FK. VERMILLION R NR MONROE, SD	10-15-04	1402	12	16	28	48	73	100

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The following discharge measurements were made at current streamflow and crest-stage partial-record stations. Sites are listed in downstream order.

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
05051650 LA BELLE CR NEAR VEBLEN SD (LAT 45 53 33N LONG 097 21 40W)					
MAR 2005					
09...	1250	4.0	505	-0.5	0.5
APR					
14...	1050	4.0	816	15.5	8.5
JUN					
14...	1620	59	661	18.0	17.5
05289985 BIG COULEE CR NEAR PEEVER, SD (LAT 45 29 14N LONG 096 57 26W)					
APR 2005					
14...	1330	3.4	1360	19.0	10.0
JUN					
14...	1340	36	918	21.0	16.0
AUG					
09...	1155	.05	1490	25.0	25.5
05292704 NORTH FORK YELLOW BANK RIVER NEAR ODESSA, MN (LAT 45 11 21N LONG 096 24 54W)					
MAR 2005					
09...	1700	22	940	-2.0	0.5
APR					
14...	1555	45	1070	20.5	15.5
JUN					
14...	1055	349	891	22.0	19.0
06334500 LITTLE MISSOURI R AT CAMP CROOK, SD (LAT 45 32 53N LONG 103 58 16W)					
OCT 2004					
13...	0845	2.3	1600	4.0	7.0
NOV					
18...	0845	3.9	1560	-1.0	1.0
JAN 2005					
10...	0945	1.4	1120	-15.0	0.0
FEB					
23...	0845	3.7	1660	-2.0	0.0
APR					
06...	1005	3.0	1600	14.0	9.0
JUN					
01...	0850	29	1080	13.5	12.5
JUL					
19...	0830	1.3	1870	23.0	19.0
AUG					
18...	0850	.98	1780	13.0	18.5
SEP					
07...	1015	.65	1880	17.0	14.5
06354882 OAK CR NEAR WAKPALA, SD (LAT 45 42 43N LONG 100 33 32W)					
NOV 2004					
30...	1530	.80	972	2.0	0.5
JAN 2005					
25...	0910	.75	1660	6.0	0.0
MAR					
16...	0815	2.1	703	-8.0	0.0
APR					
07...	1006	.88	676	17.0	10.0
MAY					
11...	0820	1.3	821	1.5	12.0
JUN					
08...	1200	298	483	17.5	17.5
JUL					
05...	1420	1.3	707	23.0	25.0

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06355500 NORTH FORK GRAND R NEAR WHITE BUTTE, SD (LAT 45 48 08N LONG 102 21 43W)					
NOV 2004					
18...	1330	3.1	4110	13.0	3.5
JAN 2005					
10...	1600	1.3	5350	-5.0	0.0
FEB					
23...	1440	5.1	3520	2.0	0.0
APR					
06...	1450	4.1	2600	23.0	13.5
JUN					
01...	1400	7.2	3340	20.5	18.0
06356500 SOUTH FORK GRAND R NEAR CASH, SD (LAT 45 38 56N LONG 102 38 27W)					
OCT 2004					
13...	1120	9.1	2530	8.5	7.5
NOV					
18...	1145	11	1890	9.0	1.0
JAN 2005					
10...	1330	1.8	3990	-7.0	0.0
FEB					
23...	1245	15	2190	1.0	0.0
APR					
06...	1240	16	2260	19.5	11.0
JUN					
01...	1200	17	1750	20.0	16.0
29...	1200	9.8	2170	16.0	18.5
JUL					
19...	1200	4.0	2900	32.0	25.0
AUG					
18...	1135	8.0	2180	27.0	22.0
06357620 WILLOW CREEK NEAR KELDRON, SD (LAT 45 50 00N LONG 101 52 02W)					
JUN 2005					
08...	--	94	--	--	--
21...	--	78	--	--	--
06357800 GRAND R AT LITTLE EAGLE, SD (LAT 45 39 28N LONG 100 49 04W)					
OCT 2004					
14...	1430	28	1980	16.0	11.0
NOV					
30...	1320	25	2010	5.0	0.0
JAN 2005					
25...	1405	13	2580	11.5	0.0
MAR					
15...	1610	91	1040	1.0	0.0
APR					
07...	1330	47	1760	25.0	16.0
MAY					
10...	1425	39	2000	19.0	17.0
JUN					
08...	1520	643	616	20.0	17.5
09...	1600	4490	2150	17.0	24.0
JUL					
13...	1715	49	1090	33.0	30.0
AUG					
30...	1300	28	1850	34.0	21.0

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06359500 MOREAU R NEAR FAITH, SD (LAT 45 11 52N LONG 102 09 22W)					
OCT 2004					
13...	1545	2.1	2030	14.5	13.0
NOV					
18...	1605	9.2	1350	10.0	4.5
JAN 2005					
11...	0900	.25	4820	-15.0	0.0
FEB					
24...	0810	.64	2100	-5.0	0.0
APR					
07...	0740	6.2	1910	7.0	9.5
JUN					
01...	1735	33	1840	24.0	18.5
JUL					
20...	0715	3.6	1750	20.0	21.0
06360500 MOREAU R NEAR WHITEHORSE, SD (LAT 45 15 21N LONG 100 50 33W)					
OCT 2004					
14...	1145	.93	1460	13.0	9.5
NOV					
30...	1030	11	1690	5.0	0.0
MAR 2005					
15...	1105	30	1330	0.0	1.0
MAY					
10...	1135	7.4	2080	15.0	15.5
JUN					
02...	1305	31	1340	23.5	22.0
JUL					
13...	1325	85	1880	33.0	30.0
AUG					
30...	0940	.22	1230	27.0	20.0
06361045 UNNAMED TRIB SWIFT BIRD BAY LAKE OAHE NR LAPLANT, SD (LAT 45 08 38N LONG 100 23 35W)					
MAY 2005					
10...	0930	.11	1650	17.0	14.0
06386500 CHEYENNE RIVER NEAR SPENCER, WY (LAT 43 25 16N LONG 104 07 52W)					
NOV 2004					
15...	1500	.02	6100	13.0	8.0
FEB 2005					
18...	0830	.08	5800	1.0	0.0
MAR					
31...	1410	.17	5410	11.0	14.5
MAY					
16...	1345	40	1110	30.0	21.0
JUN					
14...	1110	176	2380	21.0	14.5
23...	1000	7.6	2720	26.0	25.5
JUL					
08...	0955	19	3840	28.0	22.5
AUG					
16...	0850	58	1080	26.0	19.0
06394450 PASS CREEK NEAR DEWEY, SD (LAT 43 33 05N LONG 103 56 15W)					
JUN 2005					
13...	1305	1.6	2040	13.0	14.0

WATER QUALITY DATA

Date	Time	Instan- taneous dis- charge, cfs (00061)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)
06395000 CHEYENNE R AT EDGEMONT, SD (LAT 43 18 20N LONG 103 49 14W)					
OCT 2004					
12...	1015	.01	8430	14.0	13.0
NOV					
15...	1130	11	4870	7.0	2.5
JAN 2005					
03...	1435	9.1	3630	-1.0	0.0
FEB					
14...	1100	28	3550	5.0	0.0
APR					
04...	1100	4.9	5260	24.0	12.0
MAY					
18...	1255	49	2030	20.0	18.0
JUN					
13...	1550	293	2200	15.0	14.0
14...	1325	440	2310	--	16.5
15...	1405	157	2120	29.0	21.0
23...	1230	32	3700	30.0	28.5
JUL					
08...	1040	5.2	4690	29.0	26.0
27...	1200	1.7	4360	22.0	16.0
AUG					
16...	1100	57	3330	27.0	22.5
06400000 HAT CR NEAR EDGEMONT, SD (LAT 43 14 24N LONG 103 35 16W)					
NOV 2004					
15...	1415	1.1	1170	14.0	7.0
JAN 2005					
07...	0820	.10	4510	-5.0	0.0
FEB					
14...	1250	5.3	1290	5.0	0.0
APR					
04...	1310	.51	2270	25.0	15.0
22...	1330	12	700	17.0	8.5
JUN					
13...	1130	718	--	17.0	--
13...	1300	519	367	17.0	4.0
14...	1455	1360	--	--	--
23...	1440	25	1300	30.0	25.5
JUL					
08...	1310	6.1	2410	38.0	27.0
AUG					
16...	1305	9.6	2940	31.0	24.5
06400875 HORSEHEAD CR AT OELRICHS, SD (LAT 43 11 17N LONG 103 13 34W)					
FEB 2005					
15...	1320	.01	4430	12.0	4.5
APR					
05...	1445	.01	4000	11.0	11.5
JUN					
13...	1030	6.2	--	--	--
14...	1115	582	--	--	--
16...	1045	121	507	23.0	19.5
JUL					
07...	0840	.55	1120	22.0	22.5
06401500 CHEYENNE R BELOW ANGOSTURA DAM, SD (LAT 43 20 42N LONG 103 26 12W)					
FEB 2005					
01...	0920	.48	2610	-4.0	1.5
APR					
07...	1315	.46	2340	23.0	19.0
JUN					
16...	1250	.47	2390	26.0	28.0
JUL					
07...	1020	.48	2410	30.0	24.5
AUG					
17...	1240	.57	2500	25.0	26.0

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06402000 FALL R AT HOT SPRINGS, SD (LAT 43 25 50N LONG 103 28 33W)					
OCT 2004					
15...	0900	26	1230	9.0	22.5
NOV					
18...	1330	28	1230	10.0	22.5
JAN 2005					
06...	1450	28	1240	0.0	20.0
FEB					
17...	1240	28	1270	9.0	23.0
APR					
07...	1150	31	1100	16.0	25.0
JUN					
16...	0810	28	1260	19.0	24.5
JUL					
07...	1200	27	1210	29.0	28.0
AUG					
17...	1420	27	1250	25.0	26.0
06402430 BEAVER CREEK NEAR PRINGLE, SD (LAT 43 34 53N LONG 103 28 34W)					
OCT 2004					
12...	1325	.40	530	22.0	15.0
NOV					
18...	0830	.48	543	-5.0	0.0
JAN 2005					
06...	0915	.47	553	-6.5	0.0
FEB					
17...	0835	.33	575	7.0	0.0
APR					
07...	0850	.58	502	10.0	8.0
JUN					
10...	1325	.34	486	24.0	20.5
JUL					
11...	0845	.23	567	22.0	16.0
AUG					
25...	0900	.08	534	16.0	15.0
06402500 BEAVER CR NEAR BUFFALO GAP, SD (LAT 43 28 00N LONG 103 18 20W)					
OCT 2004					
14...	1350	9.0	2520	14.0	12.5
NOV					
18...	1145	9.0	2530	10.0	7.5
JAN 2005					
06...	1305	11	2590	0.0	0.0
FEB					
17...	1100	7.5	2530	9.0	2.0
APR					
08...	0800	3.3	2390	15.0	8.5
JUN					
10...	1036	7.2	2590	20.0	15.5
JUL					
11...	1130	3.4	2530	28.0	23.0
AUG					
25...	1240	3.2	2570	24.0	20.0
06402940 RUBY CREEK NR CUSTER, SD (LAT 43 45 59N LONG 103 39 20W)					
APR 2005					
22...	0900	.37	394	12.0	2.0
JUN					
13...	1010	.98	416	14.0	10.5
06402950 FRENCH CREEK BLW RUBY CREEK NR CUSTER, SD (LAT 43 45 37N LONG 103 38 52W)					
APR 2005					
22...	0955	1.4	344	11.0	2.5
06402970 LAUGHING WATER CR AT CUSTER, SD (LAT 43 46 06N LONG 103 35 33W)					
APR 2005					
22...	0745	.07	440	9.0	3.0

WATER QUALITY DATA

Date	Time	Instan- taneous dis- charge, cfs (00061)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)
06402995 FRENCH CREEK ABOVE STOCKADE LAKE NEAR CUSTER, SD (LAT 43 46 10N LONG 103 32 10W)					
JUN 2005					
13...	0900	19	213	13.0	10.0
06403300 FRENCH CR ABOVE FAIRBURN, SD (LAT 43 43 02N LONG 103 22 03W)					
OCT 2004					
14...	0910	1.0	301	13.0	10.0
NOV					
17...	0850	1.4	293	6.0	4.0
JAN 2005					
05...	1030	1.4	102	-17.0	0.0
FEB					
16...	0908	1.2	107	-5.0	0.0
APR					
06...	0910	2.2	280	11.0	6.0
JUN					
09...	1207	2.5	319	13.0	14.0
JUL					
12...	0830	2.3	320	20.0	19.0
AUG					
17...	0845	4.2	290	21.0	19.0
06403700 CHEYENNE RIVER AT REDSHIRT, SD (LAT 43 40 23N LONG 102 53 36W)					
OCT 2004					
07...	0850	76	2780	9.0	12.5
NOV					
19...	1015	76	2700	3.0	2.5
JAN 2005					
10...	0930	72	2590	-5.0	0.0
FEB					
24...	0845	68	2590	-2.0	0.0
APR					
08...	1145	60	2290	21.0	15.0
JUN					
06...	1120	60	2530	25.0	22.5
JUL					
05...	1015	33	2520	25.0	22.5
AUG					
24...	1010	41	2640	27.0	22.5
06403810 BATTLE CR ABOVE KEYSTONE, SD (LAT 43 54 17N LONG 103 27 48W)					
MAY 2005					
13...	0955	.58	400	7.0	5.5
31...	0900	--	530	12.0	8.0
JUN					
27...	0855	--	671	19.5	14.0
06403850 GRIZZLY BEAR CREEK NEAR KEYSTONE, SD (LAT 43 52 41N LONG 103 26 14W)					
MAR 2005					
11...	1340	.29	97	18.5	2.5
APR					
07...	1130	--	86	22.0	6.0
MAY					
31...	1030	5.7	76	10.0	8.5
JUL					
06...	1346	--	71	29.0	22.0
AUG					
15...	1255	--	84	22.5	16.5

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06404000 BATTLE CR NEAR KEYSTONE, SD (LAT 43 52 21N LONG 103 20 10W)					
OCT 2004					
07...	1340	.12	462	27.0	15.5
NOV					
22...	1255	.42	514	14.0	3.0
JAN 2005					
11...	1225	.27	691	3.0	0.0
FEB					
22...	1055	.89	499	6.0	0.0
APR					
11...	1200	1.3	350	9.0	5.5
JUN					
07...	1210	5.0	292	36.0	18.5
JUL					
06...	1110	20	220	22.0	14.0
AUG					
26...	0955	.98	309	21.0	17.5
06404998 GRACE COOLIDGE CR NR GAME LODGE NR CUSTER, SD (LAT 43 45 40N LONG 103 21 49W)					
OCT 2004					
13...	1145	.67	268	17.0	10.5
NOV					
17...	1105	.82	256	11.0	3.5
JAN 2005					
05...	1335	.82	220	-12.0	0.0
FEB					
16...	1125	.83	248	4.0	0.0
APR					
06...	1105	.78	250	16.0	9.0
JUN					
09...	1510	.96	276	--	--
JUL					
12...	1040	1.4	264	23.0	22.0
AUG					
12...	0853	4.2	235	18.0	18.0
06405800 BEAR GULCH NEAR HAYWARD, SD (LAT 43 47 31N LONG 103 20 49W)					
JUL 2005					
12...	1200	1.4	126	28.0	20.0
06406000 BATTLE CR AT HERMOSA, SD (LAT 43 49 41N LONG 103 11 44W)					
OCT 2004					
07...	1220	3.5	640	24.0	12.5
NOV					
22...	1110	4.4	634	15.0	1.5
JAN 2005					
10...	1330	3.7	610	2.0	0.0
FEB					
24...	1205	3.7	654	8.0	2.5
APR					
13...	0915	3.4	615	14.0	8.5
JUN					
07...	1045	3.3	649	25.0	19.0
JUL					
06...	0900	2.9	640	20.0	18.5
AUG					
24...	1230	2.2	654	26.0	22.0

WATER QUALITY DATA

Date	Time	Instan- taneous dis- charge, cfs (00061)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)
06406500 BATTLE CR BELOW HERMOSA, SD (LAT 43 43 31N LONG 102 54 22W)					
OCT 2004					
07...	1025	1.4	826	14.0	12.0
NOV					
22...	0905	4.8	865	1.0	0.0
JAN 2005					
10...	1145	3.0	921	4.0	0.0
FEB					
24...	1015	2.5	773	8.0	0.0
APR					
13...	0740	.63	787	11.0	5.5
JUN					
07...	0910	2.3	283	26.0	19.0
JUL					
05...	1120	.03	796	30.0	22.5
06406700 SPRING CR AT OREVILLE, NR HILL CITY, SD (LAT 43 51 58N LONG 103 37 24W)					
MAR 2005					
09...	1230	1.1	405	14.0	0.5
APR					
07...	1215	--	397	23.0	5.0
MAY					
31...	1240	5.6	386	10.0	8.0
JUL					
11...	1300	--	391	21.5	18.5
AUG					
15...	1145	--	397	21.5	14.5
06406740 SUNDAY GULCH BL JOHNSON CANYON NR HILL CITY, SD (LAT 43 52 10N LONG 103 34 55W)					
MAY 2005					
31...	1130	--	64	10.0	8.5
JUL					
11...	1330	--	89	24.0	18.0
AUG					
15...	1210	--	98	22.0	16.0
06406760 RENO GULCH NEAR HILL CITY, SD (LAT 43 54 35N LONG 103 36 43W)					
MAY 2005					
31...	1335	.15	468	12.0	9.5
JUL					
07...	1410	--	373	20.0	15.5
AUG					
15...	1115	--	392	21.5	13.5
06407500 SPRING CR NEAR KEYSTONE, SD (LAT 43 58 43N LONG 103 20 47W)					
OCT 2004					
08...	1410	.01	342	22.0	15.0
NOV					
16...	1300	.06	359	21.5	4.5
JAN 2005					
06...	1350	.09	445	5.0	0.0
FEB					
22...	1330	1.3	377	6.0	0.0
APR					
07...	1000	4.4	357	16.0	6.0
MAY					
25...	1130	9.3	350	15.0	15.5
JUL					
06...	1250	4.8	311	29.0	23.0
AUG					
19...	0840	3.4	345	18.0	17.0

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06408700 RHOADS FORK NEAR ROCHFORD, SD (LAT 44 08 12N LONG 103 51 29W)					
OCT 2004					
12...	1030	3.5	469	14.0	5.0
NOV					
30...	1230	3.2	466	1.5	3.5
APR 2005					
01...	0945	3.5	465	9.0	4.0
MAY					
26...	0930	3.2	465	10.0	6.5
JUL					
12...	1100	2.9	447	23.0	12.0
AUG					
17...	1000	3.3	455	19.0	9.0
06409000 CASTLE CR ABOVE DEERFIELD RES NEAR HILL CITY, SD (LAT 44 00 49N LONG 103 49 48W)					
OCT 2004					
08...	1130	8.3	469	18.0	6.0
NOV					
23...	0900	9.1	473	-1.0	0.0
JAN 2005					
11...	0935	8.5	473	-3.0	0.0
FEB					
22...	0900	4.6	488	12.0	0.0
APR					
12...	1235	11	458	22.0	5.0
JUN					
08...	1030	9.7	486	11.0	8.5
JUL					
07...	1320	6.8	430	27.0	18.5
AUG					
16...	1430	7.4	438	30.0	17.0
06410000 CASTLE CR BELOW DEERFIELD DAM, SD (LAT 44 01 45N LONG 103 46 53W)					
OCT 2004					
08...	0955	10	400	15.0	10.5
MAR 2005					
01...	0955	10	426	9.0	2.5
APR					
12...	1100	8.7	388	10.0	5.0
JUN					
08...	0845	8.1	406	8.0	7.0
JUL					
07...	1045	5.4	398	28.5	11.5
AUG					
16...	1330	8.3	396	32.0	13.5
06410500 RAPID CR ABOVE PACTOLA RES AT SILVER CITY, SD (LAT 44 05 05N LONG 103 34 48W)					
OCT 2004					
08...	0930	19	416	4.0	6.0
NOV					
16...	0845	13	414	-1.0	0.0
JAN 2005					
04...	0930	17	432	-12.0	0.0
FEB					
22...	0900	14	--	-13.0	0.0
APR					
01...	1200	27	415	12.0	2.0
MAY					
26...	1130	28	413	18.5	18.5
JUL					
12...	1300	21	392	30.0	18.5
AUG					
17...	1210	17	404	23.0	16.5

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06411500 RAPID CR BELOW PACTOLA DAM, SD (LAT 44 04 36N LONG 103 28 54W)					
OCT 2004					
08...	1040	19	391	19.0	7.5
NOV					
16...	1015	21	390	8.0	6.8
JAN 2005					
04...	1115	20	383	-11.5	2.0
FEB					
22...	1030	21	400	2.0	3.0
APR					
01...	1350	21	387	16.5	6.5
MAY					
26...	1300	20	390	18.5	9.5
JUL					
01...	1425	83	382	29.0	8.0
AUG					
17...	1350	22	371	18.5	13.5
06411900 RAPID CR ABV JOHNSON SIDING BLW PACTOLA DAM, SD (LAT 44 04 54N LONG 103 26 34W)					
MAR 2005					
07...	0815	--	396	0.5	2.0
APR					
06...	1245	--	387	12.0	7.5
MAY					
27...	1130	--	394	16.5	10.5
JUL					
14...	0920	--	384	27.5	9.0
AUG					
17...	1440	--	382	19.0	14.0
06412000 RAPID CR AT BIG BEND NR RAPID CITY, SD (LAT 44 03 18N LONG 103 25 00W)					
MAR 2005					
07...	0920	--	401	4.0	2.5
MAY					
27...	1100	--	399	16.0	12.0
JUL					
14...	0950	--	385	28.0	10.5
AUG					
17...	1500	--	383	21.5	16.5
06412200 RAPID CREEK AB VICTORIA CR NR RAPID CITY, SD (LAT 44 02 48N LONG 103 21 06W)					
OCT 2004					
25...	0830	21	375	-0.5	4.5
06412250 VICTORIA CR BELOW VICTORIA DAM NR RAPID CITY, SD (LAT 44 01 05N LONG 103 23 07W)					
MAY 2005					
27...	1325	.08	241	20.0	17.5
06412500 RAPID CR ABOVE CANYON LAKE NEAR RAPID CITY, SD (LAT 44 03 10N LONG 103 18 41W)					
OCT 2004					
07...	1400	9.1	393	25.0	12.5
NOV					
17...	0805	9.8	396	5.0	3.0
JAN 2005					
06...	1120	6.4	415	-3.0	0.0
FEB					
25...	1220	16	392	18.0	0.5
APR					
06...	0800	11	397	9.5	5.0
MAY					
25...	1330	15	364	16.0	15.0
JUL					
01...	1040	44	385	29.5	17.0
18...	1225	75	391	31.0	15.5
AUG					
19...	1140	13	384	16.5	16.0

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06412810 CLEGHORN SPRINGS AT RAPID CITY, SD (LAT 44 03 32N LONG 103 17 49W)					
JUL 2005					
13...	1445	8.1	386	36.0	15.5
AUG					
19...	1530	--	386	18.5	13.0
06414000 RAPID CR AT RAPID CITY, SD (LAT 44 05 09N LONG 103 14 31W)					
OCT 2004					
07...	1240	21	655	24.5	13.5
NOV					
15...	1315	31	593	16.0	7.0
23...	1000	32	--	-2.0	--
DEC					
28...	1038	--	581	6.0	3.0
JAN 2005					
03...	1315	20	667	-1.0	1.0
FEB					
18...	1300	30	580	3.5	4.0
APR					
06...	0930	25	594	11.5	8.0
MAY					
25...	0830	54	553	13.0	13.5
JUL					
05...	1240	61	449	31.0	19.5
06...	1000	63	468	24.0	16.5
11...	0800	--	429	29.0	18.5
28...	0905	44	540	24.0	17.0
AUG					
18...	1345	24	650	23.0	20.0
06416000 RAPID CR BELOW HAWTHORN DITCH AT RAPID CITY, SD (LAT 44 04 03N LONG 103 10 50W)					
MAR 2005					
07...	1230	--	985	5.0	6.0
APR					
07...	0750	--	683	13.0	9.5
MAY					
25...	1000	64	469	13.0	13.0
JUL					
05...	1000	47	--	25.0	--
AUG					
18...	1230	--	761	22.0	20.5
29...	0925	12	761	29.0	18.5
06418900 RAPID CR BL SEWAGE TREATMENT PL NR RAPID CITY, SD (LAT 44 01 24N LONG 103 05 43W)					
OCT 2004					
07...	0845	20	1280	12.0	15.5
NOV					
15...	0930	48	910	5.0	5.0
JAN 2005					
03...	0850	28	1020	-12.0	3.0
FEB					
18...	0830	26	1030	-7.5	3.5
APR					
04...	1045	46	972	22.0	12.0
MAY					
24...	0900	23	1340	15.0	16.5
JUL					
13...	1125	56	757	34.0	24.0
25...	0830	182	--	--	--
AUG					
18...	1110	16	1240	24.5	21.5

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06421500 RAPID CR NEAR FARMINGDALE, SD (LAT 43 56 31N LONG 102 51 12W)					
OCT 2004					
07...	1045	20	1250	17.0	12.5
NOV					
15...	1130	45	937	15.0	1.5
JAN 2005					
03...	1120	34	1110	-7.0	0.0
FEB					
18...	1130	26	1020	1.0	0.0
APR					
04...	1300	38	1060	24.0	12.5
MAY					
24...	1320	17	1290	17.0	18.5
JUL					
13...	0945	8.8	955	31.0	26.0
18...	1310	4.2	907	31.0	25.5
26...	1100	67	800	15.0	20.0
AUG					
18...	0935	7.7	975	25.0	21.0
06421800 LINDSEY DRAW NEAR FARMINGDALE, SD (LAT 43 54 27N LONG 102 51 31W)					
MAY 2005					
12...	--	200	--	--	--
06422500 BOXELDER CR NEAR NEMO, SD (LAT 44 08 38N LONG 103 27 16W)					
OCT 2004					
12...	1230	1.2	411	20.0	9.0
NOV					
17...	1000	2.5	396	7.0	1.0
JAN 2005					
06...	1000	1.9	449	-14.0	0.0
FEB					
25...	1030	3.1	395	8.0	0.0
APR					
06...	1150	6.7	338	15.0	8.0
MAY					
27...	0945	7.1	315	14.0	10.0
JUL					
06...	1205	4.6	337	31.0	22.0
AUG					
17...	1015	2.5	370	26.0	17.0
06423500 CHEYENNE RIVER NEAR WASTA, SD (LAT 44 04 52N LONG 102 24 03W)					
OCT 2004					
05...	0945	82	1840	19.0	13.0
NOV					
17...	1120	112	2180	8.0	3.5
DEC					
08...	1310	177	1940	13.0	0.5
JAN 2005					
06...	1355	80	--	-2.0	0.0
FEB					
11...	1315	158	2030	13.0	1.0
MAR					
30...	1400	137	--	22.0	--
MAY					
18...	1045	148	2540	22.0	16.0
JUL					
01...	1340	65	2640	31.0	25.0
20...	1420	11	3300	33.5	33.5
AUG					
18...	1430	84	2000	34.0	25.0
29...	1226	49	2300	34.0	22.5
29...	1230	48	2300	34.0	22.5

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06424000 ELK CR NEAR ROUBAIX, SD (LAT 44 17 41N LONG 103 35 47W)					
OCT 2004					
06...	1620	1.1	362	18.0	12.5
NOV					
16...	1127	2.3	380	12.5	0.0
JAN 2005					
06...	1115	.77	423	-3.0	0.0
FEB					
15...	1110	1.8	372	-3.5	0.0
APR					
14...	1010	2.3	371	19.0	7.5
MAY					
13...	1455	16	260	10.5	11.0
19...	1250	8.9	--	--	15.0
JUL					
06...	1400	3.4	328	24.5	22.5
AUG					
17...	0845	1.5	379	20.0	15.0
06425500 ELK CR NEAR ELM SPRINGS, SD (LAT 44 14 54N LONG 102 30 10W)					
MAY 2005					
12...	1300	19	--	6.5	6.0
06428500 BELLE FOURCHE R AT WY-SD STATE LINE (LAT 44 44 59N LONG 104 02 49W)					
OCT 2004					
12...	0940	7.5	2290	12.0	9.5
NOV					
09...	1025	12	2130	17.0	5.0
JAN 2005					
03...	1010	2.8	3140	-10.0	0.0
FEB					
16...	1117	6.2	--	-2.0	0.0
MAR					
09...	1130	14	2120	17.0	6.0
APR					
12...	0930	9.7	2340	11.0	5.0
JUN					
01...	1050	19	1610	15.0	14.0
JUL					
01...	1210	8.0	2140	28.5	23.0
15...	1055	31	2000	26.0	23.5
AUG					
29...	1250	73	--	33.0	20.5
06429997 MURRAY DITCH AB HEADGATE AT WY-SD STATE LINE (LAT 44 34 35N LONG 104 03 20W)					
OCT 2004					
07...	1130	7.0	1440	22.0	11.5
29...	0950	3.4	1570	7.0	9.5
NOV					
09...	1258	.03	1540	23.0	9.0
APR 2005					
15...	1015	13	1660	10.5	9.0
MAY					
03...	1257	6.4	1640	13.0	12.5
JUN					
02...	1155	13	1490	20.5	14.0
JUL					
07...	1000	12	1460	34.0	18.0
15...	1300	15	1500	31.5	20.0
22...	0855	22	1500	23.5	17.5
AUG					
23...	1115	5.2	1580	--	17.0
SEP					
07...	1310	9.5	1850	27.0	15.0

WATER QUALITY DATA

Date	Time	Instan- taneous dis- charge, cfs (00061)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)
06430500 REDWATER CR AT WY-SD STATE LINE (LAT 44 34 18N LONG 104 03 12W)					
OCT 2004					
07...	1240	16	1530	23.5	12.5
NOV					
09...	1225	24	1660	23.0	9.0
JAN 2005					
07...	1210	31	1520	-7.0	0.0
FEB					
15...	0920	26	1530	-3.0	4.5
MAR					
29...	1115	25	1630	12.0	10.5
APR					
15...	0905	13	1720	7.0	8.5
JUN					
02...	1055	15	1590	16.5	13.5
JUL					
07...	1105	15	1550	--	20.0
18...	1530	4.7	2000	28.0	23.0
AUG					
23...	1015	18	1670	26.0	17.0
06430770 SPEARFISH CREEK NEAR LEAD, SD (LAT 44 17 57N LONG 103 52 05W)					
OCT 2004					
08...	1220	24	444	13.0	6.0
NOV					
18...	0850	25	454	-5.5	2.5
JAN 2005					
06...	1010	20	463	-17.0	0.0
FEB					
17...	1235	30	451	-1.0	1.0
MAR					
28...	1025	25	450	10.0	4.0
MAY					
27...	0915	28	450	13.5	6.0
JUL					
08...	1245	24	447	31.5	12.0
AUG					
16...	1345	21	451	28.0	12.0
06430800 ANNIE CREEK NEAR LEAD, SD (LAT 44 19 37N LONG 103 53 38W)					
OCT 2004					
08...	1125	--	539	11.0	7.0
NOV					
18...	0918	--	557	-4.0	0.0
APR 2005					
12...	1200	.71	522	10.0	1.0
MAY					
09...	1100	11	155	9.0	4.0
27...	1020	2.7	342	12.0	5.5
JUL					
08...	1140	--	457	28.0	14.0
AUG					
16...	1300	--	542	34.0	15.0

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06430850 LITTLE SPEARFISH CREEK NEAR LEAD, SD (LAT 44 20 58N LONG 103 56 08W)					
OCT 2004					
08...	1045	11	471	1.5	6.0
NOV					
03...	1025	12	458	-2.0	4.0
18...	1015	11	476	-2.0	4.0
DEC					
01...	1015	10	--	4.0	4.0
JAN 2005					
06...	1150	11	475	-5.0	2.5
FEB					
17...	1050	10	479	-3.0	2.0
MAR					
04...	0900	9.2	474	-6.0	4.0
28...	1140	9.9	454	14.5	9.5
MAY					
04...	1210	9.6	468	14.0	9.0
27...	1120	10	453	16.0	10.0
JUL					
08...	1110	11	483	24.0	11.5
AUG					
16...	1230	11	479	29.0	11.0
06430898 CLEOPATRA CREEK NEAR SPEARFISH, SD (LAT 44 24 04N LONG 103 53 35W)					
MAY 2005					
04...	1041	2.5	256	18.0	3.0
09...	0945	46	147	9.0	4.5
31...	0915	--	236	8.0	7.0
JUL					
08...	0955	--	337	24.0	14.0
AUG					
16...	1100	--	365	20.0	15.0
06430900 SPEARFISH CREEK ABOVE SPEARFISH, SD (LAT 44 24 06N LONG 103 53 40W)					
OCT 2004					
08...	0915	46	432	5.0	6.0
NOV					
18...	1130	47	439	6.0	3.0
JAN 2005					
06...	1315	43	457	--	0.0
FEB					
17...	0925	32	457	-6.0	0.0
MAR					
28...	1300	50	426	18.5	7.0
MAY					
10...	1435	104	392	12.0	8.5
10...	1510	106	--	--	--
31...	0855	65	426	8.5	6.5
JUL					
08...	0935	48	390	23.5	12.0
AUG					
16...	1040	43	442	25.0	10.0

WATER QUALITY DATA

Date	Time	Instan- taneous dis- charge, cfs (00061)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)
06431500 SPEARFISH CR AT SPEARFISH, SD (LAT 44 28 57N LONG 103 51 40W)					
OCT 2004					
06...	1420	43	428	21.0	7.5
NOV					
19...	0915	47	438	4.0	3.5
JAN 2005					
07...	0950	44	451	-7.0	0.0
FEB					
15...	1130	43	439	0.0	1.5
MAR					
29...	0915	50	430	8.0	5.0
MAY					
10...	1110	106	340	10.5	7.0
10...	1200	107	--	--	--
31...	1020	65	410	11.0	7.0
JUN					
24...	1305	--	404	--	13.0
JUL					
05...	1300	46	434	29.0	11.5
AUG					
16...	0840	40	435	22.0	11.5
06432172 FALSE BOTTOM CREEK NR CENTRAL CITY, SD (LAT 44 23 28N LONG 103 47 58W)					
APR 2005					
12...	1310	.91	204	14.0	4.0
MAY					
09...	1310	21	104	13.5	5.5
13...	1300	8.4	124	11.0	7.0
JUN					
14...	1105	2.4	231	17.0	8.5
JUL					
08...	1325	--	332	33.0	17.5
AUG					
16...	1430	--	374	34.0	16.5
06433000 REDWATER RIVER ABOVE BELLE FOURCHE, SD (LAT 44 40 02N LONG 103 50 20W)					
OCT 2004					
06...	1120	108	1130	20.0	12.0
NOV					
19...	1145	149	1160	7.0	4.5
JAN 2005					
11...	0945	97	1350	-10.0	0.0
FEB					
16...	1325	128	1160	4.0	2.5
MAR					
29...	1255	135	1170	17.0	10.5
MAY					
13...	1300	204	1150	--	8.5
26...	1250	100	1120	22.5	13.5
JUL					
06...	1335	--	1190	34.0	23.5
07...	1245	32	1210	36.5	23.5
11...	1135	12	1240	25.0	22.5
AUG					
29...	1115	43	1270	27.5	17.0
SEP					
21...	1400	82	1260	26.0	15.5

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06434505 INLET CANAL ABOVE BELLE FOURCHE RESERVOIR, SD (LAT 44 42 05N LONG 103 44 00W)					
OCT 2004					
05...	1120	114	1260	18.0	11.0
NOV					
09...	0850	148	1260	9.0	6.0
JAN 2005					
11...	1140	96	1450	-8.5	0.0
FEB					
03...	0930	149	1280	1.0	2.0
MAR					
01...	1128	--	1280	6.5	3.0
APR					
01...	1030	139	1280	16.0	6.0
MAY					
26...	1005	121	1200	16.0	13.5
SEP					
21...	1100	97	1380	24.0	15.0
06436000 BELLE FOURCHE R NEAR FRUITDALE, SD (LAT 44 41 27N LONG 103 44 14W)					
OCT 2004					
05...	1240	4.8	2370	23.0	12.5
NOV					
03...	1300	4.1	2250	15.5	7.0
22...	0945	5.1	2210	5.0	1.0
JAN 2005					
11...	1315	6.1	2200	-5.0	0.0
FEB					
03...	1040	3.9	1960	8.5	1.0
APR					
01...	1145	4.8	1880	14.5	9.5
MAY					
26...	1130	3.1	2090	15.0	15.0
JUL					
11...	1000	4.3	1940	23.0	24.0
15...	0930	.81	2010	--	22.5
AUG					
29...	1000	14	2090	20.0	19.0
SEP					
21...	1205	9.5	1960	24.0	16.5
06436156 WHITETAIL CREEK AT LEAD, SD (LAT 44 20 36N LONG 103 45 57W)					
APR 2005					
05...	1321	6.7	613	4.0	4.5
MAY					
09...	1220	19	522	15.0	6.5
06436165 DEADWOOD CREEK AT CENTRAL CITY, SD (LAT 44 22 07N LONG 103 45 55W)					
OCT 2004					
06...	1338	.41	539	15.5	11.0
NOV					
16...	1558	.61	534	1.5	4.0
JAN 2005					
06...	1530	.36	415	-8.0	0.0
FEB					
08...	1240	.42	491	-4.0	0.0
APR					
05...	1032	7.5	252	4.5	5.0
05...	1045	7.4	252	4.5	5.0
05...	1218	9.4	252	4.5	5.0
MAY					
09...	1100	14	285	8.0	5.5
JUL					
14...	1020	.66	540	25.0	16.5
AUG					
26...	1315	.56	115	22.0	15.5

WATER QUALITY DATA

Date	Time	Instan- taneous dis- charge, cfs (00061)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)
06436180 WHITEWOOD CR ABOVE WHITEWOOD, SD (LAT 44 26 32N LONG 103 37 44W)					
OCT 2004					
07...	0940	3.4	838	24.5	8.0
NOV					
16...	1105	5.6	843	15.0	0.0
JAN 2005					
25...	0945	2.2	769	8.5	0.0
MAR					
01...	1250	.23	846	11.0	0.0
09...	0930	4.3	838	7.0	0.0
JUN					
03...	1000	21	606	17.0	10.5
JUL					
11...	1320	8.6	675	31.0	24.0
AUG					
23...	1325	5.2	708	34.0	21.0
06436190 WHITEWOOD CREEK NEAR WHITEWOOD, SD (LAT 44 32 30N LONG 103 34 16W)					
OCT 2004					
01...	1335	1.1	1430	9.0	14.5
NOV					
16...	0950	3.9	1300	9.5	4.5
JAN 2005					
10...	0920	2.5	1430	-13.0	1.5
FEB					
11...	0920	3.7	1370	9.0	2.0
MAR					
30...	1300	7.0	1170	12.0	9.0
MAY					
09...	1200	106	--	13.0	9.5
JUN					
03...	0855	23	811	16.5	11.0
JUL					
13...	1310	5.6	1020	35.5	25.5
AUG					
22...	1355	3.3	1060	28.0	21.5
06436198 WHITEWOOD CR ABOVE VALE, SD (LAT 44 37 04N LONG 103 28 52W)					
OCT 2004					
01...	1225	.04	1660	4.0	15.0
NOV					
16...	0835	5.9	1400	1.5	1.5
JAN 2005					
03...	1310	1.4	--	--	--
FEB					
10...	1345	--	1590	4.0	0.5
11...	1045	3.0	1520	6.5	0.5
MAR					
30...	1150	3.3	1320	13.0	7.0
JUN					
01...	1410	29	830	22.0	13.0
JUL					
13...	1210	.31	1070	33.0	27.5
AUG					
22...	1250	.12	1200	30.5	26.5

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instan- taneous dis- charge, cfs (00061)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)
06436760 HORSE CR ABOVE VALE, SD (LAT 44 39 08N LONG 103 21 59W)					
OCT 2004					
01...	1005	4.4	2760	2.0	12.0
25...	1100	2.1	3720	0.5	6.0
NOV					
15...	1145	2.1	4300	15.0	2.5
22...	1150	1.9	4790	8.0	0.5
DEC					
29...	1320	1.9	5430	5.0	0.0
FEB 2005					
11...	1200	1.7	4780	8.5	0.5
MAR					
01...	1028	--	4420	7.0	1.0
22...	1325	1.2	4420	7.0	5.0
APR					
20...	1130	--	5130	6.0	10.0
MAY					
03...	0910	.90	5310	11.5	7.0
13...	0930	--	4460	3.0	7.5
24...	1130	1.1	5040	17.0	20.5
JUN					
02...	1339	--	4780	22.0	18.5
JUL					
13...	1125	19	2700	33.0	25.5
06437000 BELLE FOURCHE R NEAR STURGIS, SD (LAT 44 30 47N LONG 103 08 11W)					
OCT 2004					
12...	1155	24	2420	20.0	11.5
NOV					
15...	1005	27	2600	2.0	1.0
DEC					
29...	1110	27	2980	0.0	0.0
FEB 2005					
10...	1100	23	2770	-4.5	0.0
MAR					
01...	0915	11	2500	-1.5	0.0
09...	1415	23	2590	19.0	9.5
APR					
11...	0930	25	2580	5.5	5.0
JUN					
03...	1220	57	1630	23.5	20.0
JUL					
13...	0955	98	1880	--	24.0
AUG					
22...	0940	224	1840	21.5	20.5
SEP					
14...	1020	238	1830	16.0	15.5
06437020 BEAR BUTTE CREEK NEAR DEADWOOD, SD (LAT 44 20 08N LONG 103 38 06W)					
OCT 2004					
06...	1515	.37	594	19.0	10.0
NOV					
16...	1424	1.1	508	3.5	1.0
JAN 2005					
07...	1210	1.3	321	-7.0	0.0
FEB					
08...	1535	.70	459	-5.0	0.0
APR					
05...	1440	21	235	4.5	4.0
JUL					
14...	1205	1.1	394	29.0	20.5
AUG					
26...	1435	1.1	114	24.0	17.0

WATER QUALITY DATA

Date	Time	Instan- taneous dis- charge, cfs (00061)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)
06437200 BEAR BUTTE CR NEAR GALENA, SD (LAT 44 23 48N LONG 103 34 36W)					
MAY 2005					
09...	0935	.41	1140	10.0	8.0
13...	1045	7.3	392	6.0	6.0
JUN					
10...	1046	--	1200	15.0	8.5
JUL					
14...	0854	--	1150	28.0	16.5
06437650 ELM CREEK NEAR FAIRPOINT, SD (LAT 44 46 59N LONG 103 03 43W)					
AUG 2005					
24...	1015	1.6	231	21.0	16.5
06438000 BELLE FOURCHE RIVER NEAR ELM SPRINGS, SD (LAT 44 22 11N LONG 102 33 56W)					
OCT 2004					
05...	1130	29	1650	22.0	14.5
NOV					
03...	1115	43	1890	12.0	6.5
DEC					
08...	1040	6.6	2490	3.0	0.5
JAN 2005					
07...	1110	5.6	4860	-6.0	0.5
FEB					
11...	1030	22	2360	3.0	1.0
MAR					
31...	1040	22	--	--	--
MAY					
24...	1345	58	1480	22.0	24.0
JUL					
18...	1000	112	2200	27.0	20.0
AUG					
15...	1020	254	1830	25.0	21.5
06438500 CHEYENNE R NEAR PLAINVIEW, SD (LAT 44 31 54N LONG 101 55 47W)					
OCT 2004					
14...	0915	114	2710	6.0	8.0
NOV					
19...	0930	150	2350	3.0	1.5
JAN 2005					
11...	1345	90	2910	-7.0	0.0
FEB					
24...	1145	174	2220	7.0	1.0
APR					
07...	1255	116	2350	22.5	15.0
JUN					
02...	0910	677	1960	14.0	7.0
JUL					
20...	1230	90	2510	33.0	27.5
AUG					
19...	0900	304	1850	20.0	20.5
06438800 ELM CREEK NEAR RED OWL, SD (LAT 44 45 04N LONG 102 26 55W)					
NOV 2004					
03...	0945	.16	2080	11.0	3.5
MAY 2005					
24...	1200	.34	2050	19.5	20.0
06439000 CHERRY CR NEAR PLAINVIEW, SD (LAT 44 44 35N LONG 102 03 11W)					
NOV 2004					
19...	0730	.01	1310	-1.0	0.5
JUN 2005					
02...	0700	1.3	2110	14.0	14.5

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06440200 SOUTH FORK BAD R NEAR COTTONWOOD, SD (LAT 43 58 08N LONG 101 46 00W)					
NOV 2004					
08...	1220	.23	306	14.0	9.0
APR 2005					
05...	1010	.05	493	11.5	13.0
MAY					
12...	1840	468	160	14.0	8.5
27...	0905	.15	1280	14.5	16.0
AUG					
18...	1110	.36	503	28.0	21.5
06440850 MEDICINE CREEK NEAR PHILLIP, SD (LAT 44 03 17N LONG 101 29 12W)					
MAY 2005					
12...	1555	105	587	11.0	8.5
06441000 BAD R NEAR MIDLAND, SD (LAT 44 04 01N LONG 101 09 36W)					
MAY 2005					
13...	1235	989	692	9.0	10.0
06441100 PLUM CREEK NEAR HAYES, SD (LAT 44 20 41N LONG 101 07 40W)					
MAY 2005					
12...	1505	188	466	11.5	9.0
06441110 PLUM CREEK BELOW HAYES, SD (LAT 44 12 38N LONG 100 43 34W)					
MAY 2005					
12...	1830	355	1690	12.0	11.5
06441390 WILLOW CREEK ABOVE FORT PIERRE, SD (LAT 44 22 48N LONG 100 30 59W)					
MAR 2005					
25...	1335	1.2	4200	1.0	7.0
APR					
20...	0950	34	1920	7.5	8.5
MAY					
12...	1055	382	2330	10.0	8.0
06441500 BAD R NEAR FORT PIERRE, SD (LAT 44 19 36N LONG 100 23 02W)					
NOV 2004					
23...	1330	.60	3890	0.5	3.0
FEB 2005					
01...	1610	3.2	4350	9.0	0.5
MAR					
21...	1405	1.7	3790	1.5	4.0
06442150 CEDAR CREEK NEAR KENNEBEC, SD (LAT 44 08 27N LONG 099 56 37W)					
MAR 2005					
25...	1545	11	2380	6.0	6.0
APR					
22...	0905	115	1220	4.5	9.0
MAY					
12...	1315	1240	648	12.0	8.0
MAY 2005					
13...	1815	174	741	14.0	13.0
06442500 MEDICINE CR AT KENNEBEC SD (LAT 43 54 17N LONG 099 52 35W)					
APR 2005					
22...	1430	1070	756	10.0	10.0
MAY					
13...	1425	2800	495	9.0	10.0

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06442670 COUNSELOR CREEK NEAR LOWER BRULE, SD (LAT 44 01 34N LONG 099 31 00W)					
MAR 2005					
25...	1745	6.5	2330	6.0	5.0
MAY					
12...	1800	46	1260	11.0	13.0
06442718 CAMPBELL C NR LEE'S CORNER, SD (LAT 44 04 39N LONG 099 22 51W)					
MAR 2005					
14...	1045	.16	3030	-1.0	0.0
MAY					
12...	2010	128	552	11.0	10.0
06445685 WHITE R NR NE-SD STATE LINE (LAT 43 00 47N LONG 102 50 07W)					
OCT 2004					
13...	0845	16	574	6.0	10.5
NOV					
16...	0850	8.7	728	4.0	0.5
JAN 2005					
04...	0945	9.2	1010	-19.0	0.0
FEB					
15...	0845	16	707	6.0	0.0
APR					
05...	0845	18	878	10.0	11.0
JUN					
14...	1315	700	--	24.0	--
24...	1040	50	679	28.0	23.5
AUG					
15...	1400	21	573	33.0	20.5
06445980 WHITE CLAY CR NEAR OGLALA SD (LAT 43 08 46N LONG 102 40 58W)					
JUN 2005					
13...	1235	7.3	--	--	--
06446000 WHITE R NEAR OGLALA SD (LAT 43 15 17N LONG 102 49 29W)					
OCT 2004					
13...	1235	14	488	12.0	10.0
NOV					
16...	1210	14	943	14.0	2.0
JAN 2005					
04...	1445	13	956	-15.0	0.0
FEB					
15...	1220	25	695	18.0	0.0
APR					
05...	1325	32	735	11.0	10.5
JUN					
14...	1730	853	711	25.0	15.5
15...	0955	1030	464	21.0	16.5
24...	0840	70	670	22.0	24.5
AUG					
15...	1050	19	1530	25.0	17.5
06446100 WOUNDED KNEE CREEK AT WOUNDED KNEE, SD (LAT 43 08 38N LONG 102 21 28W)					
JUN 2005					
13...	1430	15	--	--	--

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06446500 WHITE R NEAR INTERIOR, SD (LAT 43 41 38N LONG 101 55 56W)					
OCT 2004					
08...	1300	28	518	28.0	19.5
NOV					
15...	1030	29	659	14.5	3.0
JAN 2005					
10...	1140	6.0	1680	-8.5	0.0
FEB					
14...	1000	99	462	3.5	1.0
APR					
07...	1030	45	476	24.0	25.0
22...	1020	1900	405	11.0	8.0
MAY					
04...	1120	80	278	25.0	14.5
12...	1420	10,100	362	18.0	10.5
JUN					
16...	1145	527	284	31.0	20.0
JUL					
07...	0940	83	569	33.5	22.5
AUG					
25...	1515	29	920	34.5	28.0
06446700 BEAR IN THE LODGE CR NEAR WANBLEE, SD (LAT 43 32 12N LONG 101 47 54W)					
OCT 2004					
08...	1140	4.6	475	16.0	14.5
NOV					
15...	1150	7.5	381	18.0	2.0
JAN 2005					
10...	1325	5.8	537	-6.0	0.0
FEB					
14...	1135	12	482	5.0	0.0
APR					
07...	0900	11	359	10.0	10.0
JUN					
08...	1410	18	391	22.0	25.0
JUL					
07...	1110	11	483	38.0	24.0
AUG					
25...	1405	5.0	515	34.5	22.5
06447000 WHITE R NEAR KADOKA, SD (LAT 43 45 09N LONG 101 31 28W)					
OCT 2004					
06...	1220	36	605	22.0	17.0
NOV					
17...	0925	38	463	5.0	2.5
DEC					
07...	1215	32	507	7.0	1.0
JAN 2005					
03...	1330	19	1620	-2.0	0.0
FEB					
16...	0840	48	548	3.0	0.0
APR					
05...	1140	57	364	17.0	14.0
JUN					
07...	1315	601	233	27.0	22.5
JUL					
08...	1245	100	483	34.0	29.0
AUG					
17...	1420	231	444	34.0	25.0
06447050 UNNAMED TRIB BUZZARD CREEK NR LONG VALLEY, SD (LAT 43 27 42N LONG 101 25 59W)					
APR 2005					
21...	1125	3.2	88	9.0	9.0
21...	1400	19	53	9.5	9.5
JUL					
21...	--	64	--	--	--

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06447230 BLACK PIPE CREEK NR BELVIDERE, SD (LAT 43 45 28N LONG 101 13 40W)					
OCT 2004					
06...	1400	2.9	371	22.0	17.5
NOV					
08...	1050	2.1	469	13.0	7.5
DEC					
07...	1050	.49	553	-3.0	0.0
FEB 2005					
15...	1730	3.2	497	1.0	0.0
MAR					
30...	1135	4.6	--	16.0	--
APR					
22...	1655	596	372	14.0	10.5
MAY					
12...	1715	467	390	15.0	12.0
27...	1110	5.4	704	18.0	16.5
JUN					
24...	1140	4.7	682	27.0	25.0
JUL					
11...	0935	1.0	1210	32.0	26.5
AUG					
17...	1240	.05	682	34.0	31.0
06447450 WHITE RIVER NEAR WHITE RIVER, SD (LAT 43 42 50N LONG 100 41 05W)					
OCT 2004					
07...	0820	48	486	15.0	12.5
NOV					
16...	1530	46	414	14.0	6.5
JAN 2005					
12...	0940	7.4	1280	-4.5	0.0
FEB					
15...	1340	130	513	7.0	1.0
MAR					
11...	1130	66	662	12.0	6.0
APR					
05...	1340	99	544	18.0	12.5
22...	1400	5180	714	12.0	10.0
23...	1315	3400	410	17.0	9.5
25...	1700	1130	311	13.0	10.0
MAY					
13...	1205	10300	408	10.0	8.5
JUN					
07...	1635	469	295	27.0	25.5
JUL					
11...	1145	119	751	32.0	24.5
AUG					
17...	0820	724	438	22.0	22.0
06447500 LITTLE WHITE R NEAR MARTIN, SD (LAT 43 10 00N LONG 101 37 47W)					
OCT 2004					
08...	0930	13	216	11.0	12.0
NOV					
15...	1510	15	142	23.0	5.0
JAN 2005					
11...	0930	8.3	264	-4.5	0.0
FEB					
14...	1545	28	159	7.0	0.5
APR					
06...	1645	19	265	22.0	15.0
22...	1130	35	271	10.5	9.0
25...	1325	87	232	17.0	9.0
JUN					
13...	1500	25	236	13.5	17.5
JUL					
08...	0750	24	216	24.5	23.0
AUG					
16...	0735	17	220	18.0	19.0

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06448000 LAKE CR ABOVE REFUGE NEAR TUTHILL, SD (LAT 43 05 13N LONG 101 36 11W)					
OCT 2004					
08...	0820	21	97	7.5	12.0
NOV					
16...	0740	24	113	0.0	3.5
JAN 2005					
11...	0810	21	120	-3.5	0.0
FEB					
14...	1440	27	118	6.0	5.5
APR					
06...	1540	22	92	22.0	14.5
22...	1310	116	174	10.5	10.0
JUN					
13...	1340	90	139	15.0	15.5
JUL					
07...	1545	19	108	32.5	27.5
AUG					
16...	0845	18	116	21.0	18.0
06449000 LAKE CR BELOW REFUGE NEAR TUTHILL, SD (LAT 43 08 49N LONG 101 30 51W)					
OCT 2004					
07...	1530	14	167	30.0	18.0
NOV					
15...	1410	28	239	19.0	5.0
JAN 2005					
10...	1550	15	493	-4.5	1.0
24...	1145	--	120	18.0	2.0
25...	1340	53	119	13.0	4.0
FEB					
14...	1325	54	155	6.0	5.0
MAR					
01...	1225	--	209	12.0	6.0
APR					
06...	1410	.67	206	19.0	17.0
JUN					
13...	1215	70	292	15.0	15.0
JUL					
07...	1320	.23	246	37.5	30.5
AUG					
16...	1010	31	208	29.0	22.5
06449100 LITTLE WHITE R NEAR VETAL, SD (LAT 43 06 03N LONG 101 13 49W)					
OCT 2004					
07...	1410	57	281	23.0	18.0
NOV					
16...	0945	53	140	8.0	5.5
JAN 2005					
11...	1125	45	223	-4.5	0.0
FEB					
15...	0830	95	214	-1.0	3.0
APR					
06...	1245	73	146	22.0	13.0
JUN					
08...	1120	86	318	24.0	19.0
JUL					
08...	0945	48	334	32.0	23.0
AUG					
16...	1200	59	268	35.0	23.0

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06449500 LITTLE WHITE R NEAR ROSEBUD, SD (LAT 43 19 32N LONG 100 53 00W)					
OCT 2004					
07...	1230	111	284	23.0	16.5
NOV					
16...	1240	123	160	13.0	8.0
JAN 2005					
11...	1410	95	206	-3.0	0.0
FEB					
15...	1030	164	160	0.0	0.5
APR					
06...	1115	138	391	20.0	13.0
JUN					
08...	0940	167	378	24.0	20.0
JUL					
12...	0820	117	308	28.0	24.0
AUG					
16...	1335	97	264	35.0	25.5
06450500 LITTLE WHITE R BELOW WHITE RIVER, SD (LAT 43 36 05N LONG 100 44 58W)					
OCT 2004					
07...	1050	58	499	20.0	18.0
NOV					
16...	1420	106	172	18.5	6.5
JAN 2005					
12...	1130	151	246	2.0	0.5
FEB					
15...	1215	175	254	2.0	0.5
APR					
06...	0940	134	291	15.0	11.0
JUN					
08...	0800	294	273	18.0	19.5
JUL					
11...	1440	88	376	34.0	30.0
AUG					
17...	1045	90	287	--	25.0
06451650 WILLIAMS CREEK NEAR VIVIAN, SD (LAT 43 43 33N LONG 100 17 50W)					
MAR 2005					
28...	1145	.14	3520	27.0	9.0
APR					
22...	1730	83	722	13.5	11.5
06452275 SNAKE CREEK NEAR BIJOU HILLS, SD (LAT 43 29 58N LONG 099 07 13W)					
JUN 2005					
13...	1350	40	637	15.5	17.5
06452320 PLATTE CREEK NEAR PLATTE, SD (LAT 43 19 38N LONG 098 58 13W)					
NOV 2004					
23...	1420	.51	1700	4.0	3.0
JAN 2005					
10...	1340	.61	3440	-8.0	0.5
MAR					
16...	1800	.45	2150	3.0	5.0
MAY					
04...	1613	.82	2310	25.0	19.0
JUN					
13...	1615	87	1330	16.5	20.0
JUL					
14...	0935	.21	1730	29.0	29.0
06453255 CHOTEAU CR NR AVON, SD (LAT 42 55 24N LONG 098 06 21W)					
JUN 2005					
06...	1400	79	1200	24.0	27.0
JUL					
13...	1615	9.5	1420	33.0	31.0

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06463900 ANTELOPE CR NEAR MISSION, SD (LAT 43 16 26N LONG 100 40 56W)					
OCT 2004					
08...	1525	2.4	--	19.5	16.5
MAR 2005					
17...	1630	3.5	405	7.0	5.0
APR					
22...	2040	42	367	7.0	8.0
26...	1145	12	365	6.0	8.0
JUN					
13...	1710	21	193	14.0	15.0
06464100 KEYA PAHA R NEAR KEYAPAHA, SD (LAT 43 07 45N LONG 100 06 24W)					
OCT 2004					
08...	1235	22	447	--	16.0
NOV					
24...	0940	22	379	-1.0	1.0
JAN 2005					
27...	1632	50	463	0.5	0.0
MAR					
17...	1315	23	461	2.0	1.0
APR					
22...	1730	220	455	10.0	8.0
25...	1400	226	490	11.0	13.0
MAY					
05...	1355	49	469	27.0	17.0
JUN					
14...	1145	203	256	21.0	19.5
JUL					
14...	1530	17	453	33.0	31.0
AUG					
16...	1610	15	423	34.0	29.0
17...	0815	12	446	22.0	19.0
06464120 SAND CREEK NEAR OLSONVILLE, SD (LAT 43 01 03N LONG 100 24 46W)					
MAR 2005					
17...	1500	.63	558	2.0	4.0
APR					
26...	0930	1.1	586	3.5	5.0
JUN					
14...	1345	21	274	22.0	21.5
06464500 KEYA PAHA R AT WEWELA, SD (LAT 43 01 44N LONG 099 46 49W)					
OCT 2004					
07...	1925	36	431	20.0	16.0
NOV					
23...	1652	44	434	0.0	2.0
JAN 2005					
27...	1338	58	408	0.0	0.0
MAR					
17...	1015	51	454	0.0	1.0
APR					
22...	1225	183	426	5.5	9.0
25...	1830	403	467	11.0	13.5
MAY					
05...	0905	103	452	15.0	12.0
JUN					
14...	1000	635	220	16.0	17.0
JUL					
14...	1300	40	448	30.0	28.0
AUG					
16...	1545	29	407	31.0	28.0
06466715 SNATCH CREEK NEAR TABOR, SD (LAT 42 54 30N LONG 097 46 33W)					
MAR 2005					
16...	1045	.28	--	8.0	3.0
JUN					
06...	1840	178	1370	28.0	26.0

WATER QUALITY DATA

Date	Time	Instan- taneous dis- charge, cfs (00061)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)
06471000 JAMES R AT COLUMBIA, SD (LAT 45 36 13N LONG 098 18 36W)					
OCT 2004					
05...	1830	242	1140	23.0	14.5
NOV					
22...	1220	44	1260	6.0	0.5
JAN 2005					
11...	1650	52	1680	-7.5	0.0
FEB					
09...	1640	43	2150	-1.5	0.0
MAR					
08...	1020	47	1860	-8.0	-0.5
APR					
12...	1305	163	900	11.0	10.5
JUN					
10...	1745	-226	1740	26.0	22.0
11...	1310	-1270	1610	14.0	18.5
12...	1115	-1990	922	21.0	19.5
13...	1840	-769	763	17.0	16.0
14...	1530	-17	757	22.5	19.0
15...	1415	-121	776	24.0	19.0
23...	1355	868	1160	34.5	28.0
23...	1415	846	--	34.5	28.0
30...	1250	270	1220	18.0	20.0
JUL					
08...	1220	1220	1050	28.5	26.0
13...	1255	1220	1050	29.0	27.5
20...	1800	1060	1040	29.0	26.0
27...	0945	841	1040	19.0	19.5
AUG					
04...	1115	538	1070	26.0	23.0
09...	0820	332	1140	22.0	24.0
23...	1300	254	1090	24.0	21.5
SEP					
14...	1025	310	1130	18.0	16.0

06471065 ELM RIVER NEAR FREDERICK, SD (LAT 45 50 15N LONG 098 42 06W)

APR 2005					
13...	1120	.49	1860	18.5	12.0
JUN					
09...	1200	2880	1580	22.0	20.0
11...	2000	866	1010	17.5	18.0

06471200 MAPLE R AT ND-SD STATE LINE (LAT 45 56 20N LONG 098 27 08W)

NOV 2004					
22...	1445	6.3	1790	8.5	1.0
JAN 2005					
11...	1350	1.4	3220	-4.5	0.0
MAR					
08...	1345	8.7	2010	-3.5	-0.5
APR					
12...	0920	10	932	7.0	7.5
JUN					
09...	1630	671	1240	27.0	22.0
10...	1235	3800	532	20.0	--
14...	1045	1380	705	18.0	17.0
JUL					
01...	1105	282	970	22.5	19.5
AUG					
08...	1230	18	1540	25.5	27.0

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06471500 ELM R AT WESTPORT, SD (LAT 45 39 22N LONG 098 29 48W)					
OCT 2004					
06...	0940	.30	1920	18.5	15.5
NOV					
22...	1620	9.8	1850	9.0	1.0
JAN 2005					
11...	1045	2.2	2140	-11.0	0.0
MAR					
08...	1555	10	2300	-2.0	1.5
APR					
12...	1735	1.1	1870	8.5	12.5
JUN					
10...	0840	2280	1680	16.0	19.0
11...	0915	4340	934	18.0	21.0
13...	1500	2930	767	17.0	16.0
JUL					
01...	0820	1070	842	15.0	18.5
08...	1520	278	1180	32.5	28.0
AUG					
08...	1435	48	1230	31.0	28.0
08...	1535	44	1230	31.0	28.0
06471510 ELM RIVER NEAR ORDWAY, SD (LAT 45 33 45N LONG 098 24 45W)					
JUN 2005					
12...	0800	4830	804	14.5	18.0
23...	1050	734	1010	31.0	27.0
23...	1110	744	--	31.0	27.0
AUG					
09...	1035	42	1360	26.0	26.0
06471770 MOCCASIN CREEK AT ABERDEEN, SD (LAT 45 28 13N LONG 098 27 13W)					
OCT 2004					
06...	1735	.09	2800	23.5	20.0
NOV					
23...	0810	.23	2080	-5.0	1.0
JAN 2005					
12...	0910	.03	2550	-3.0	0.0
MAR					
09...	0740	.06	2260	0.5	1.5
APR					
13...	1700	.68	3710	20.0	15.0
JUL					
01...	1340	3.1	1850	20.0	21.5
01...	1354	2.6	1850	--	--
AUG					
09...	1350	.03	1520	27.0	27.0
06471800 FOOT CREEK NEAR ABERDEEN, SD (LAT 45 31 08N LONG 098 34 37W)					
OCT 2004					
06...	1605	.08	1980	26.0	19.0
NOV					
23...	0915	.33	3490	-5.0	0.5
JAN 2005					
10...	1625	.25	2080	-6.5	0.0
MAR					
08...	1730	.40	1440	-1.5	-1.0
APR					
13...	1400	.51	1930	17.0	12.5
AUG					
09...	1220	.17	2080	27.0	27.0

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06472000 JAMES R NEAR STRATFORD, SD (LAT 45 14 30N LONG 098 23 28W)					
OCT 2004					
05...	1220	244	1250	20.5	13.0
NOV					
22...	1005	96	1570	2.0	0.5
JAN 2005					
10...	1355	54	1780	-5.0	0.0
MAR					
07...	1620	64	1920	-2.0	0.5
APR					
11...	1700	175	1150	13.0	12.0
JUN					
14...	1945	558	1570	21.0	19.0
30...	1615	1050	1040	23.0	22.0
JUL					
08...	0915	1450	1100	24.0	26.0
27...	1145	1320	1120	21.0	21.5
AUG					
09...	1535	1110	1260	26.0	26.5
06472050 ANTELOPE CREEK NEAR LANGFORD, SD (LAT 45 34 22N LONG 097 50 10W)					
APR 2005					
14...	0825	2.1	2400	7.5	8.0
JUN					
12...	1545	96	1270	22.0	18.0
06473000 JAMES R AT ASHTON, SD (LAT 44 59 54N LONG 098 28 50W)					
OCT 2004					
07...	1140	238	1230	18.0	15.5
NOV					
22...	1135	109	1700	6.5	3.5
JAN 2005					
06...	1450	62	2030	-9.5	0.0
FEB					
09...	1100	57	2010	-5.0	0.0
MAR					
07...	1255	56	1820	-2.0	0.5
APR					
11...	1400	183	1260	12.5	13.0
JUN					
12...	1505	387	1230	25.5	22.0
15...	1030	574	1260	19.0	19.0
JUL					
21...	1200	1940	1150	28.0	25.0
AUG					
10...	0835	1340	1250	20.0	25.0
06473300 PREACHERS RUN TRIB AT IPSWICH, SD (LAT 45 27 08N LONG 099 01 45W)					
JUN 2005					
11...	1630	3.7	1370	20.5	17.5
06474000 TURTLE CR NEAR TULARE, SD (LAT 44 44 06N LONG 098 35 09W)					
JUN 2005					
12...	0905	3.0	1110	18.0	17.0
16...	1720	1.5	1120	27.0	27.0
AUG					
23...	0935	3.0	613	18.5	19.5

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06475000 JAMES R NEAR REDFIELD, SD (LAT 44 54 38N LONG 098 28 18W)					
OCT 2004					
07...	1540	226	1240	22.0	17.5
NOV					
22...	1415	109	1720	10.5	6.5
JAN 2005					
06...	1140	59	2080	-13.0	0.0
MAR					
07...	1000	72	1800	-2.0	-0.5
APR					
11...	1100	195	1320	8.0	11.0
JUN					
16...	1445	796	1360	27.0	20.0
JUL					
13...	0930	1780	1200	24.0	27.0
27...	1410	1720	1150	22.0	22.0
06475600 TURTON TRIB SOUTH NEAR TURTON, SD (LAT 45 03 07N LONG 097 59 38W)					
APR 2005					
19...	0950	.13	2240	19.5	14.5
JUN					
12...	1310	9.2	1700	26.0	22.0
06475850 FOSTER CR TRIB NEAR CARPENTER, SD (LAT 44 37 56N LONG 098 03 42W)					
JUN 2005					
12...	1045	11	219	19.0	18.0
06476000 JAMES R AT HURON, SD (LAT 44 21 49N LONG 098 11 56W)					
OCT 2004					
07...	1245	235	1260	16.0	15.0
APR 2005					
07...	1455	170	1700	24.0	12.5
JUN					
23...	1755	991	1260	36.0	28.0
AUG					
04...	1445	1480	1160	27.5	26.0
06477000 JAMES R NEAR FORESTBURG, SD (LAT 43 58 26N LONG 098 04 14W)					
OCT 2004					
05...	1312	215	1310	18.0	13.0
DEC					
01...	1652	74	--	-2.5	0.5
JAN 2005					
25...	1459	82	2020	12.0	0.0
MAR					
15...	1032	81	1740	6.5	0.0
MAY					
02...	1800	156	1550	12.0	10.0
JUL					
12...	1015	1540	1230	27.0	27.0
AUG					
15...	1410	1210	1260	26.0	23.0
06477150 ROCK CR NEAR FULTON, SD (LAT 43 45 30N LONG 097 54 32W)					
JUN 2005					
11...	1630	49	1120	19.0	19.0

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06477500 FIRESTEEL CR NEAR MOUNT VERNON, SD (LAT 43 46 35N LONG 098 14 44W)					
OCT 2004					
04...	1755	12	1060	12.0	15.0
NOV					
23...	1043	2.0	2090	1.0	2.0
JAN 2005					
25...	1045	.63	2310	10.0	0.5
MAR					
14...	1550	1.9	1930	2.0	2.0
MAY					
02...	1400	4.3	2130	11.0	14.0
26...	1145	9.8	1790	22.0	16.0
JUN					
08...	1215	22	1710	23.0	24.0
14...	0955	626	707	20.5	19.0
JUL					
11...	1600	6.6	1390	33.0	28.0
AUG					
15...	1435	.43	1890	24.0	24.0
06478000 JAMES R NEAR MITCHELL, SD (LAT 43 39 32N LONG 097 55 08W)					
DEC 2004					
02...	1324	74	--	6.0	1.5
JUN 2005					
15...	1500	2060	1160	28.0	22.0
JUL					
12...	1515	1600	1250	33.0	27.0
AUG					
15...	1815	1260	1270	27.0	24.0
06478052 ENEMY CR NEAR MITCHELL SD (LAT 43 38 33N LONG 097 59 09W)					
JUN 2005					
11...	1425	570	687	18.0	19.0
06478390 WOLF CR NEAR CLAYTON, SD (LAT 43 22 18N LONG 097 36 12W)					
MAR 2005					
15...	1615	9.4	2180	9.0	5.0
JUN					
07...	1600	80	1570	33.0	28.0
15...	1020	242	972	19.5	20.0
06478500 JAMES R NEAR SCOTLAND, SD (LAT 43 11 09N LONG 097 38 07W)					
OCT 2004					
06...	1230	265	1350	21.0	14.5
DEC					
03...	1344	169	1580	6.0	1.5
JAN 2005					
26...	1300	113	2120	-5.0	0.0
MAR					
15...	1845	128	1820	4.0	2.0
MAY					
03...	1200	241	1750	11.0	10.0
JUN					
07...	1220	1430	1290	29.0	23.5
JUL					
13...	1130	1420	1260	29.0	27.0
AUG					
16...	0900	1400	1280	26.0	24.0

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06478540 LITTLE VERMILLION R NEAR SALEM, SD (LAT 43 47 39N LONG 097 22 02W)					
OCT 2004					
06...	0910	.14	1420	12.0	10.5
NOV					
15...	0850	.01	1900	4.0	1.0
APR 2005					
04...	1040	.15	1550	16.0	8.0
MAY					
31...	1020	2.0	1840	10.0	17.0
JUN					
08...	1535	8.2	2090	26.0	25.0
14...	1445	97	909	22.0	20.0
AUG					
08...	1120	.01	2000	31.0	26.5
06478600 EAST FORK VERMILLION RIVER NEAR PARKER, SD (LAT 43 26 43N LONG 097 06 34W)					
OCT 2004					
06...	1345	18	1580	22.0	17.0
NOV					
15...	1245	9.6	1870	12.0	7.0
JAN 2005					
25...	1215	8.0	1950	10.5	0.0
MAR					
07...	1330	11	1650	2.0	3.5
APR					
04...	1810	28	1590	25.0	19.0
MAY					
31...	1615	27	1770	15.0	17.0
JUN					
07...	0930	238	1570	21.5	21.0
10...	1425	859	740	23.0	19.5
AUG					
08...	1455	12	1700	34.0	31.0
06478690 WEST FORK VERMILLION R NEAR PARKER, SD (LAT 43 24 55N LONG 097 12 18W)					
OCT 2004					
06...	1120	4.7	1270	20.0	12.5
NOV					
15...	1050	4.8	1840	7.0	3.0
JAN 2005					
25...	1025	1.0	2820	2.0	0.0
MAR					
07...	1150	2.4	1520	1.0	4.5
APR					
04...	1510	19	1470	25.0	15.0
MAY					
31...	1430	18	2160	14.0	17.0
JUN					
07...	1230	533	--	--	--
10...	1135	1280	677	22.0	18.0
AUG					
08...	1310	.93	1680	34.0	28.0
06479000 VERMILLION R NEAR WAKONDA SD (LAT 42 59 27N LONG 096 57 49W)					
MAY 2005					
13...	1500	780	1800	17.5	13.5
JUN					
01...	1455	642	1130	20.0	20.0
06...	1515	2400	1030	30.0	22.0

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06479010 VERMILLION RIVER NR VERMILLION, SD (LAT 42 49 02N LONG 096 55 26W)					
OCT 2004					
08...	1135	80	1520	22.0	14.0
NOV					
16...	0840	51	1650	11.0	5.5
JAN 2005					
26...	1555	42	1950	2.0	0.0
MAR					
08...	1325	72	1650	7.0	4.0
APR					
05...	1735	154	1850	20.0	16.5
JUN					
01...	1230	1230	1140	--	--
06...	1755	2990	1010	31.0	22.0
AUG					
10...	1405	76	1570	28.5	24.5
06479159 BLUE DOG LAKE INFLOW (OWENS CR) NR WAUBAY, SD (LAT 45 20 48N LONG 097 15 07W)					
APR 2005					
19...	1225	15	557	21.0	16.0
06479215 BIG SIOUX RIVER NR FLORENCE, SD (LAT 45 10 51N LONG 097 11 09W)					
OCT 2004					
06...	0945	16	576	15.0	10.0
NOV					
08...	1300	18	673	10.0	6.5
JAN 2005					
24...	1230	.05	905	3.0	3.0
MAR					
10...	1415	5.1	374	-2.0	0.0
APR					
15...	1055	20	726	13.0	10.5
JUN					
01...	0915	12	674	16.0	15.5
13...	1335	66	604	16.0	18.0
AUG					
09...	1705	.34	703	22.5	26.5
06479438 BIG SIOUX R NEAR WATERTOWN, SD (LAT 45 00 22N LONG 097 09 53W)					
OCT 2004					
06...	1355	32	643	24.0	15.0
NOV					
08...	1455	40	725	7.0	10.0
JAN 2005					
24...	1530	.70	753	3.0	2.0
MAR					
11...	0945	30	338	1.0	2.0
APR					
19...	1520	38	683	25.0	20.5
JUN					
01...	1105	32	705	18.5	16.5
13...	1100	196	571	15.5	19.0
AUG					
10...	0900	2.7	613	20.5	22.0
06479490 MUD CREEK NEAR RAUVILLE, SD (LAT 45 00 29N LONG 097 06 21W)					
APR 2005					
15...	1255	1.2	667	14.0	12.0
JUN					
15...	1055	48	615	19.0	19.0
06479498 SOUTH BRANCH TRIB MUD CR NR RAUVILLE, SD (LAT 44 57 12N LONG 097 06 23W)					
APR 2005					
14...	1830	5.5	1360	13.0	13.5
JUN					
15...	0840	17	1040	18.5	17.5

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06479500 BIG SIOUX R AT WATERTOWN, SD (LAT 44 56 33N LONG 097 08 45W)					
OCT 2004					
06...	1545	9.5	892	22.5	17.5
NOV					
08...	1650	32	846	8.0	7.5
JAN 2005					
25...	0935	.16	951	3.0	0.0
MAR					
15...	1020	3.8	718	0.0	0.0
APR					
15...	1435	39	969	17.0	12.5
JUN					
01...	1350	34	828	21.0	17.5
13...	1645	186	646	19.0	19.5
AUG					
10...	1105	3.5	640	26.5	22.5
06479512 BIG SIOUX R AT BROADWAY AT WATERTOWN, SD (LAT 44 53 22N LONG 097 07 07W)					
APR 2005					
15...	0800	40	944	10.0	12.0
JUN					
15...	1325	203	776	24.5	20.0
06479515 WILLOW CR NEAR WATERTOWN, SD (LAT 44 55 08N LONG 097 02 43W)					
JUN 2005					
15...	0715	77	797	16.5	17.0
06479520 BIG SIOUX RIVER BELOW WATERTOWN, SD (LAT 44 50 52N LONG 097 02 57W)					
OCT 2004					
07...	1110	27	985	16.0	14.0
NOV					
09...	1045	53	994	3.5	7.0
JAN 2005					
25...	1530	7.1	1320	3.0	0.0
MAR					
15...	1300	29	1020	2.5	1.5
APR					
20...	1040	55	1030	10.0	14.0
JUN					
01...	1615	54	926	20.0	20.0
14...	0730	225	714	14.0	17.5
AUG					
10...	1510	9.5	1050	28.0	27.5
06479525 BIG SIOUX R NEAR CASTLEWOOD, SD (LAT 44 43 54N LONG 097 02 39W)					
OCT 2004					
06...	1000	41	930	18.0	11.5
NOV					
09...	1245	70	985	14.5	7.5
JAN 2005					
26...	0910	6.4	1460	-6.5	0.0
MAR					
15...	1610	25	968	-1.0	0.0
APR					
20...	1350	68	1040	15.5	14.0
JUN					
02...	0810	58	967	18.5	16.5
15...	1740	335	776	26.0	21.5
AUG					
10...	1735	10	814	28.0	27.5

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06479640 HIDEWOOD CR NEAR ESTELLINE SD (LAT 44 36 42N LONG 096 54 17W)					
OCT 2004					
06...	1210	18	1060	21.5	14.0
JUN 2005					
15...	1545	146	873	22.0	22.5
06479770 BIG SIOUX RIVER NEAR BRUCE, SD (LAT 44 28 04N LONG 096 53 14W)					
OCT 2004					
06...	1400	112	966	23.5	15.0
NOV					
09...	1500	152	1000	14.5	8.0
JAN 2005					
26...	1235	13	1100	-6.5	0.0
MAR					
16...	1440	36	826	3.0	3.0
APR					
21...	0935	147	1030	9.5	12.0
JUN					
02...	1025	119	967	21.0	18.0
16...	0900	545	842	21.0	20.0
AUG					
11...	1530	26	726	25.0	27.0
06479980 MEDARY CR NEAR BROOKINGS, SD (LAT 44 13 27N LONG 096 46 02W)					
JUN 2005					
16...	1355	103	897	26.0	22.5
06480000 BIG SIOUX RIVER NEAR BROOKINGS, SD (LAT 44 10 48N LONG 096 44 55W)					
OCT 2004					
06...	1645	194	934	19.5	15.0
NOV					
10...	0845	214	996	6.0	8.0
JAN 2005					
26...	1600	23	1170	-6.0	0.0
MAR					
16...	1125	76	806	-1.0	3.0
APR					
21...	1520	316	1080	17.0	14.5
JUN					
02...	1320	206	996	22.0	19.0
16...	1210	989	1000	26.0	21.0
AUG					
11...	1240	46	834	22.0	24.0
06480650 FLANDREAU CR ABOVE FLANDREAU, SD (LAT 44 03 45N LONG 096 29 15W)					
APR 2005					
21...	1325	25	853	16.0	14.0
06481000 BIG SIOUX R NEAR DELL RAPIDS, SD (LAT 43 47 25N LONG 096 44 42W)					
OCT 2004					
07...	1105	235	1010	16.0	14.0
NOV					
17...	0900	203	1020	4.0	4.0
JAN 2005					
27...	1710	36	1250	-3.0	0.0
MAR					
10...	1230	144	753	6.0	3.0
APR					
07...	1310	176	772	23.0	15.5
JUN					
03...	1240	342	902	21.0	19.0
AUG					
09...	1325	118	840	28.5	28.5

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06481400 BIG SIOUX RIVER BELOW DIVERSION AT SIOUX FALLS, SD (LAT 43 34 23N LONG 096 45 50W)					
OCT 2004					
06...	1735	160	989	18.0	14.0
06...	1825	156	--	18.0	14.0
APR 2005					
13...	1250	86	923	11.0	16.0
06481480 SKUNK CR NR CHESTER, SD (LAT 43 50 53N LONG 096 50 10W)					
OCT 2004					
07...	0935	11	1200	14.0	12.0
NOV					
17...	1030	2.0	1230	8.0	3.5
JAN 2005					
27...	1430	1.2	1070	-3.0	0.5
MAR					
09...	0825	3.2	992	-5.0	0.5
APR					
12...	1030	40	1230	7.0	5.0
JUN					
03...	1015	16	1390	16.0	17.0
06...	1200	38	1370	23.0	22.0
08...	1230	52	1410	24.0	24.0
14...	1825	100	1330	22.5	22.0
AUG					
09...	1455	18	1710	27.0	27.0
30...	0945	3.6	1470	19.0	18.0
06481493 SKUNK CREEK NEAR HARTFORD, SD (LAT 43 38 09N LONG 096 54 00W)					
APR 2005					
12...	1440	154	1360	8.0	7.0
06481497 WILLOW CREEK NEAR CROOKS, SD (LAT 43 37 51N LONG 096 49 37W)					
APR 2005					
12...	1630	24	860	8.0	8.0
06481500 SKUNK CR AT SIOUX FALLS, SD (LAT 43 32 01N LONG 096 47 26W)					
OCT 2004					
06...	1600	47	1300	20.0	15.0
NOV					
16...	1630	24	1200	14.0	7.0
JAN 2005					
25...	1415	7.8	1670	10.5	1.0
MAR					
07...	1550	21	953	2.0	3.0
APR					
08...	0945	54	1190	12.0	12.0
JUN					
01...	1710	82	1350	20.0	20.0
07...	1655	400	1330	30.0	26.0
AUG					
10...	1000	29	1440	24.0	24.0

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06482000 BIG SIOUX R AT SIOUX FALLS, SD (LAT 43 30 05N LONG 096 44 55W)					
OCT 2004					
28...	1720	74	1150	20.0	18.5
NOV					
15...	1435	238	1060	12.0	6.0
JAN 2005					
27...	0935	19	1390	-4.5	0.0
MAR					
10...	0855	23	973	5.0	3.0
APR					
13...	1435	300	1020	13.0	12.0
JUN					
02...	1255	272	1230	21.0	20.0
06...	1255	599	1260	29.5	22.5
AUG					
10...	0730	83	1270	20.5	22.0
10...	0800	79	1270	20.5	22.0
06482020 BIG SIOUX R AT NORTH CLIFF AVE AT SIOUX FALLS, SD (LAT 43 34 01N LONG 096 42 39W)					
OCT 2004					
08...	1445	290	987	19.5	17.5
NOV					
15...	1605	238	1130	11.0	5.0
JAN 2005					
25...	1555	46	1730	10.0	1.0
MAR					
09...	1515	105	834	1.0	3.0
APR					
08...	1120	209	1010	18.0	15.0
JUN					
02...	1040	367	999	19.0	19.0
07...	1250	1310	920	30.0	21.0
AUG					
09...	0745	153	1090	25.0	25.0
09...	0825	148	1090	25.0	25.0
06482610 SPLIT ROCK CR AT CORSON, SD (LAT 43 36 59N LONG 096 33 54W)					
OCT 2004					
08...	1200	48	738	20.0	17.5
NOV					
16...	1425	36	678	14.5	8.0
JAN 2005					
27...	1225	17	799	-3.0	0.0
MAR					
09...	1335	25	600	2.0	2.0
APR					
14...	1105	263	726	10.5	11.0
JUN					
02...	0835	70	805	18.0	18.0
AUG					
09...	1110	88	693	30.5	27.0
06482848 BEAVER CR AT CANTON, SD (LAT 43 17 12N LONG 096 35 46W)					
JUN 2005					
06...	1655	896	787	31.5	24.0
08...	0855	660	942	27.0	22.0

MISCELLANEOUS TEMPERATURE MEASUREMENT AND FIELD DETERMINATIONS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06485500 BIG SIOUX R AT AKRON, IA (LAT 42 50 14N LONG 096 33 41W)					
OCT 2004					
13...	1135	992	916	12.0	13.0
NOV					
16...	1130	800	1010	16.0	7.0
JAN 2005					
10...	1300	360	1190	-5.0	0.0
26...	1245	309	1120	-2.0	0.0
FEB					
16...	1315	2030	711	2.5	0.5
MAR					
08...	1055	637	999	6.0	3.0
APR					
06...	1300	1100	805	20.0	15.0
MAY					
13...	1200	2680	874	14.0	12.5
JUN					
01...	0940	1810	907	18.0	18.0
07...	0920	6720	763	21.0	22.0
AUG					
11...	1000	790	760	22.5	26.0
11...	1125	773	760	22.5	26.0

The following miscellaneous discharge measurements are listed in downstream order.

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
06400497 CASCADE SPRINGS NEAR HOT SPRINGS, SD (LAT 43 20 10N LONG 103 33 07W)					
APR 2005					
11...	0940	22	1,800	9.0	20.0
06406920 SPRING CREEK ABOVE SHERIDAN LAKE NEAR KEYSTONE, SD (LAT 43 57 39N LONG 103 29 18W)					
OCT 2004					
08...	1300	1.7	500	21.0	7.5
NOV					
16...	1200	1.4	516	16.0	0.0
22...	1300	--	587	8.0	0.0
JAN 2005					
04...	1307	0.20	797	-11.0	0.0
06408500 SPRING CR NEAR HERMOSA, SD (LAT 43 56 31N LONG 103 09 32W)					
OCT 2004					
08...	1300	0.00	--	21.0	--
NOV					
23...	1155	0.14	1,360	1.0	1.5
JAN 2005					
11...	1400	0.27	1,350	0.0	0.0
440321103181101 RAPID CR AT BRAEBURN ADDITION AT RAPID CITY, SD (LAT 44 03 21N LONG 103 18 11W)					
OCT 2004					
19...	1030	10	374	6.5	7.0
19...	1035	11	381	6.0	7.0
19...	1335	11	371	15.0	8.5
19...	1340	10	372	14.5	9.0
26...	0855	9.9	392	2.5	6.5
26...	0900	10	374	3.0	6.5
NOV					
04...	1200	11	391	8.0	5.5
06412900 RAPID CREEK BLW CLEGHORN SPGS AT RAPID CITY, SD (LAT 44 03 33N LONG 103 17 49W)					
OCT 2004					
19...	1135	26	372	10.0	9.5
19...	1140	25	377	10.0	9.5
19...	1420	29	372	--	10.0
19...	1435	26	330	--	15.0
26...	0955	23	392	7.5	9.5
26...	1000	23	372	7.0	9.0
NOV					
04...	1250	25	386	10.0	9.0
04...	1255	26	--	--	--
06413720 RAPID CREEK AT WTP AT RAPID CITY, SD (LAT 44 04 33N LONG 103 15 21W)					
OCT 2004					
14...	1330	--	508	17.0	13.0
JAN 2005					
07...	1200	--	515	-2.0	2.5
APR					
07...	0715	--	514	3.0	8.0
JUN					
03...	0945	24	527	22.0	13.0
JUL					
14...	1110	--	396	30.0	20.0
AUG					
18...	1415	--	486	23.0	20.0

MISCELLANEOUS DISCHARGE MEASUREMENTS

WATER QUALITY DATA

Date	Time	Instantaneous discharge, cfs (00061)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	
06430950 SPEARFISH CR BL ROBISON GULCH NR SPEARFISH, SD (LAT 44 26 14N LONG 103 52 32W)						
MAY 2005						
	12...	1340	29	374	4.0	5.5
	13...	1205	33	370	22.0	7.0
442649103520200 SPEARFISH CR BLW ROBISON GULCH ABV SPLIT ROCK, SD (LAT 44 26 49N LONG 103 52 02W)						
MAY 2005						
	12...	1205	22	372	8.0	5.0
	13...	1350	28	366	12.0	9.0
06434500 INLET CANAL NEAR BELLE FOURCHE, SD (LAT 44 42 14N LONG 103 49 23W)						
NOV 2004						
	19...	1045	--	1,260	6.5	4.0
JUN 2005						
	08...	1225	98	1,170	16.5	15.0
JUL						
	12...	1300	44	1,860	33.0	25.0