

Water-Data Report 2007

05267930 SKUNK RIVER NEAR BUCKMAN, MN

Upper Mississippi-Crow-Rum Basin
Platte-Spunk Subbasin

LOCATION.--Lat 45°55'38", long 94°10'39" referenced to North American Datum of 1927, Morrison County, MN, Hydrologic Unit 07010201, approximately six miles east of Little Falls and three miles south of State Road 27 on 230th Ave. Gage is located on right bank about 300 feet upstream of bridge. Gage has been painted camouflage to minimize vandalism.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Water years 2007 to current year.

GAGE.--June 2007 to current year.

REMARKS.--Gage-height records considered good.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 7.10, September 21, 2007; minimum gage height, 4.34, August 4, 2007.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.10, September 21; minimum gage height, 4.34, August 4.

05267930 SKUNK RIVER NEAR BUCKMAN, MN—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

05267930 SKUNK RIVER NEAR BUCKMAN, MN—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

05267930 SKUNK RIVER NEAR BUCKMAN, MN—Continued

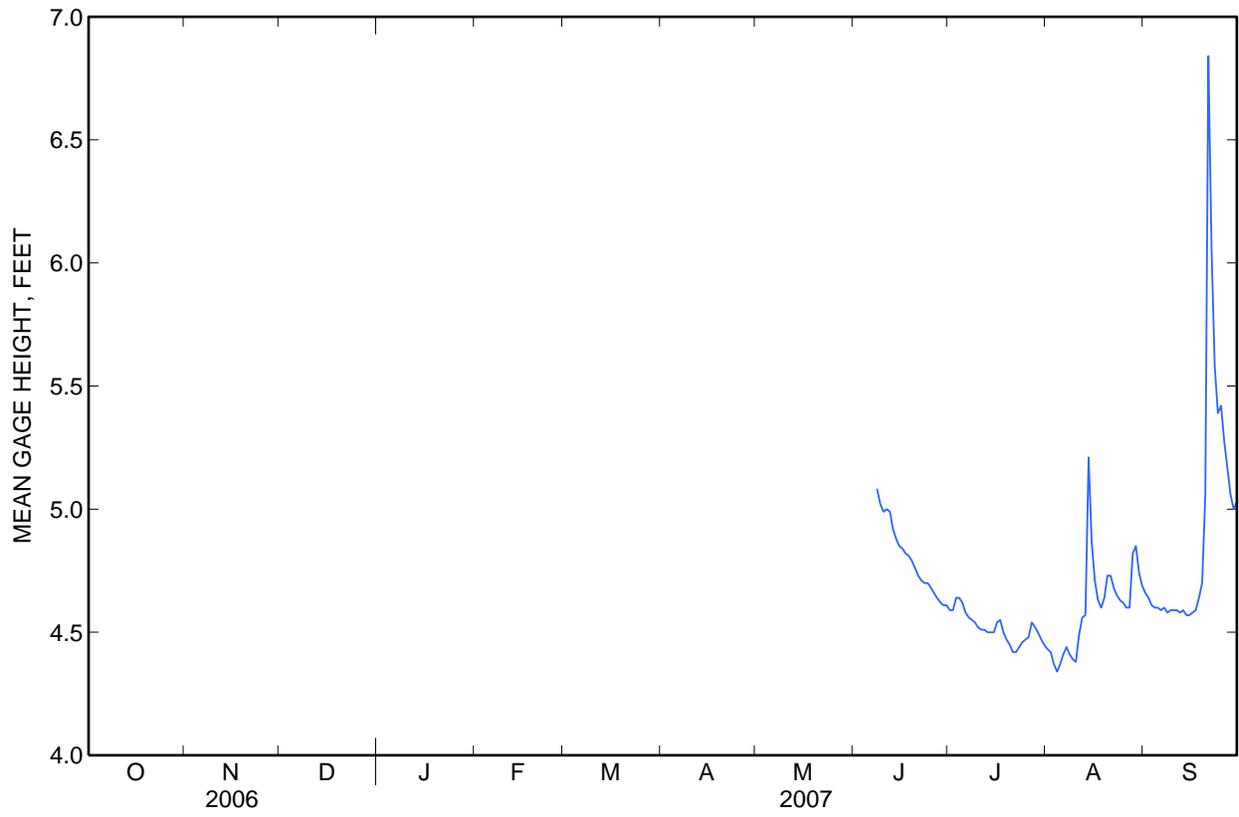
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	4.60	4.59	4.59	4.45	4.40	4.43	4.67	4.64	4.66
2	---	---	---	4.61	4.58	4.59	4.44	4.41	4.42	4.65	4.62	4.64
3	---	---	---	4.66	4.61	4.64	4.41	4.34	4.37	4.62	4.61	4.61
4	---	---	---	4.65	4.63	4.64	4.35	4.33	4.34	4.61	4.60	4.60
5	---	---	---	4.63	4.61	4.62	4.39	4.34	4.37	4.61	4.59	4.60
6	---	---	---	4.61	4.56	4.58	4.45	4.38	4.41	4.61	4.59	4.59
7	---	---	---	4.57	4.55	4.56	4.45	4.41	4.44	4.61	4.59	4.60
8	5.11	5.04	5.08	4.56	4.54	4.55	4.43	4.39	4.41	4.59	4.57	4.58
9	5.05	5.00	5.02	4.54	4.53	4.54	4.41	4.34	4.39	4.60	4.58	4.59
10	5.02	4.97	4.99	4.54	4.51	4.52	4.40	4.34	4.38	4.60	4.59	4.59
11	5.04	4.98	5.00	4.52	4.51	4.51	4.58	4.38	4.49	4.60	4.58	4.59
12	5.03	4.95	4.99	4.52	4.50	4.51	4.59	4.54	4.56	4.59	4.57	4.58
13	4.95	4.89	4.92	4.51	4.49	4.50	5.20	4.50	4.57	4.62	4.57	4.59
14	4.90	4.86	4.88	4.51	4.49	4.50	5.63	5.04	5.21	4.59	4.56	4.57
15	4.86	4.84	4.85	4.51	4.49	4.50	5.04	4.76	4.87	4.58	4.56	4.57
16	4.85	4.83	4.84	4.55	4.51	4.54	4.76	4.66	4.71	4.58	4.57	4.58
17	4.84	4.81	4.82	4.55	4.52	4.55	4.67	4.60	4.63	4.60	4.58	4.59
18	4.82	4.79	4.81	4.52	4.49	4.50	4.61	4.59	4.60	4.69	4.60	4.64
19	4.82	4.77	4.79	4.49	4.45	4.47	4.71	4.59	4.64	4.72	4.68	4.70
20	4.77	4.75	4.76	4.48	4.43	4.45	4.76	4.70	4.73	6.73	4.69	5.06
21	4.75	4.71	4.73	4.43	4.41	4.42	4.76	4.70	4.73	7.09	6.40	6.84
22	4.72	4.70	4.71	4.44	4.41	4.42	4.70	4.66	4.68	6.40	5.75	6.06
23	4.71	4.70	4.70	4.44	4.43	4.44	4.66	4.64	4.65	5.75	5.44	5.58
24	4.71	4.69	4.70	4.49	4.44	4.46	4.64	4.62	4.63	5.44	5.35	5.39
25	4.69	4.66	4.68	4.49	4.44	4.47	4.62	4.60	4.62	5.48	5.38	5.42
26	4.67	4.65	4.66	4.53	4.43	4.48	4.61	4.59	4.60	5.42	5.21	5.28
27	4.65	4.63	4.64	4.57	4.52	4.54	4.72	4.59	4.60	5.22	5.11	5.17
28	4.63	4.61	4.62	4.53	4.49	4.52	4.91	4.72	4.82	5.12	5.02	5.06
29	4.62	4.60	4.61	4.52	4.46	4.50	4.91	4.78	4.85	5.02	4.98	5.00
30	4.61	4.60	4.61	4.49	4.45	4.47	4.78	4.71	4.74	5.18	4.96	5.03
31	---	---	---	4.48	4.41	4.45	4.72	4.67	4.69	---	---	---
Month	---	---	---	4.66	4.41	4.52	5.63	4.33	4.60	7.09	4.56	4.91

05267930 SKUNK RIVER NEAR BUCKMAN, MN—Continued

THE RETRIEVED PLOT DATA CONSIST ENTIRELY OF MISSING
VALUES OR, IN THE CASE OF A LOG PLOT, OF NEGATIVE AND
ZERO VALUES

05267930 SKUNK RIVER NEAR BUCKMAN, MN—Continued



05267930 SKUNK RIVER NEAR BUCKMAN, MN—Continued

WATER-QUALITY RECORDS

REMARKS.--Upper Mississippi River Basin nutrient enrichment (NEET) study sampling site. The objectives of this study are to determine the transport, chemical transformation, and retention of nutrients in the water column and surrounding sediments, and resulting effects on biological communities in stream reaches. Such cycling differs in different geologic and hydrologic settings, and is controlled, in large part, by ground-water and surface-water interactions. The study will be conducted from 2006 to 2009.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 4

[Remark codes: <, less than.]

Date	Time	Sample type	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Stream velocity, ft/s (00055)	Velocity at point in stream, ft/s (81904)	Stream width, feet (00004)	Turbidity, water, unfltrd field, NTU (61028)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd std units (00400)
Jun												
20...	1700	Environmental	4.76	12	--	<1.50	28.0	--	729	6.9	88	8.3
20...	1705	Environmental	4.76	12	--	<1.50	28.0	--	--	6.9	--	8.3
20...	1705	Replicate	4.76	12	--	<1.50	28.0	--	--	6.9	--	8.3
Aug												
17...	0725	Environmental	4.64	9.5	<1.00	--	--	3.2	740	5.3	57	7.5
17...	0725	Plant tissue	--	--	--	--	--	--	--	5.4	--	7.5
17...	0726	Plant tissue	--	--	--	--	--	--	--	5.4	--	7.5

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 4

[Remark codes: <, less than.]

Date	Specific conductance, wat unf 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	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)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, wat unf by analsis, mg/L (62855)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)
Jun													
20...	326	30.5	25.0	--	--	--	.041	2.55	.041	--	3.42	.041	.102
20...	326	30.5	25.0	--	--	--	.040	2.57	.041	--	3.37	.049	.095
20...	326	30.5	25.0	--	--	--	--	--	--	--	--	--	--
Aug													
17...	340	11.0	17.7	124	152	.0	.060	1.70	.045	.05	2.59	.135	.198
17...	340	--	17.7	--	--	--	--	--	--	--	--	--	--
17...	340	--	17.7	--	--	--	--	--	--	--	--	--	--

05267930 SKUNK RIVER NEAR BUCKMAN, MN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 4

[Remark codes: <, less than.]

Date	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)	Biomass phyton, ashfree drymass g/m2 (49954)	Biomass peri-phyton, ashfree DTH, g/m2 (63766)	Biomass peri-phyton, ash weight, DTH, g/m2 (63765)	Peri-phyton biomass ash weight, g/m2 (00572)	Biomass peri-phyton, dry weight, DTH, g/m2 (63767)	Peri-phyton biomass dry weight, g/m2 (00573)	Chloro-phyll a peri-phyton, chromo-fluoro, mg/m2 (70957)	Chloro-phyll a peri-phyton, DTH, CF meth mg/m2 (63763)	Chloro-phyll a phyto-plankton, fluoro, µg/L (70953)
Jun													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug													
17...	.3	<.1	.3	8.2	--	--	--	--	--	--	--	--	1.4
17...	--	--	--	--	<29.3	--	--	1,300	--	1,286	40.1	--	--
17...	--	--	--	--	--	<16.7	757	--	767	--	--	15.1	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 4

[Remark codes: <, less than.]

Date	Pheo-phytn a peri-phyton, DTH, CF meth mg/m2 (63764)	Pheo-phytin a, peri-phyton, mg/m2 (62359)	Pheo-phytin a, phyto-plankton, µg/L (62360)	Number of sam-pling points, count (00063)	Data base number
Jun					
20...	--	--	--	10	01
20...	--	--	--	10	01
20...	--	--	--	10	77
Aug					
17...	--	--	4.2	10	01
17...	--	18.2	--	--	01
17...	15.1	--	--	--	01