

The ground-water observation well network in South Dakota is used to monitor quantitative and at times qualitative changes in the glacial and bedrock aquifers. Federal, state, and local agencies monitor approximately 2,000 wells throughout the state. These wells are a sample of the South Dakota observation well network. All measurements are in feet above or below land-surface datum.

## BEADLE COUNTY

442254098174501.

LOCATION.--Lat 44°22'54", long 98°17'45", in SE<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec.32, T.111 N., R.62 W., Hydrologic Unit 10160006, 4 mi west and 1 mi north of Huron.  
Owner: South Dakota Department of Environment and Natural Resources (SDDENR). SDDENR identifier BD-79C.

AQUIFER.--Warren.

WELL CHARACTERISTICS.-- Drilled observation water well, diameter 2 in., depth 110 ft, cased to 105 ft, finished with well point and 10 ft of slotted casing.

INSTRUMENTATION.--No instrumentation. Periodic measurements made approximately every 6 weeks.

DATUM.--Elevation of land-surface datum is 1,309.00 ft above NGVD of 1929. Measuring point: Top of casing, 2.9 ft above land-surface datum.

PERIOD OF RECORD.--June 26, 1979, to Apr. 30, 2000, data collected and reported by SDDENR, periodic measurements by USGS May 1, 2000, to present.

EXTREMES FOR PERIOD OF RECORD.--Maximum water level, 45.10 ft below land-surface datum, Aug. 18, 1988; minimum water level, 9.80 ft below land-surface datum, Aug. 26, 1998.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 7	22.53	Mar. 17	18.17	Aug. 10	20.33
Nov. 10	21.20	June 3	17.93		
Jan. 12	19.34				

## GROUND-WATER LEVELS

## GRANT COUNTY

451848096363501.

LOCATION.--Lat 45°18'48", long 96°36'35", in SW<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> sec.6, T.121 N., R.47 W., Hydrologic Unit 07020001, 6 mi north and 1.0 mi east of Milbank. Owner: South Dakota Department of Environment and Natural Resources (SDDENR). SDDENR identifier GT-79E.

AQUIFER.--Veblen.

WELL CHARACTERISTICS.-- Drilled observation water well, diameter 2 in., depth 132 ft, cased to 123 ft, open hole 123 to 128 ft.

INSTRUMENTATION.--No instrumentation. Periodic measurements made approximately every 6 weeks.

DATUM.--Elevation of land-surface datum is 1,104.00 ft above NGVD of 1929. Measuring point: Top of casing, 2.8 ft above land-surface datum.

PERIOD OF RECORD.--Oct. 25, 1979, to Apr. 19, 2000, data collected and reported by SDDENR, periodic measurements by USGS Apr. 20, 2000, to present.

EXTREMES FOR PERIOD OF RECORD.--Maximum water level, 38.4 ft below land-surface datum, Oct. 4 and Nov. 8, 1983; minimum water level, 19.2 ft below land-surface datum, Apr. 29, 1997.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 5	33.49	Mar. 9	33.92	May 31	34.09
Nov. 8	33.72	Apr. 14	33.97	Aug. 9	33.41
Jan. 24	33.80				

MEADE COUNTY

441759103261202.

LOCATION.--Lat 44°17'59", long 103°26'12", in NW¼ NE¼ NE¼ sec.19, T.4 N., R.6 E., Hydrologic Unit 10120111, at Interstate 90 Tilford exit. Owner: South Dakota Department of Environment and Natural Resources.

AQUIFER.--Madison Formation.

WELL CHARACTERISTICS.--Drilled observation water well, diameter 5 in, depth 840 ft, 750 ft of 5-in steel casing. Open hole from 750 to 840 ft.

INSTRUMENTATION.--Satellite data-collection platform and submersible transducer.

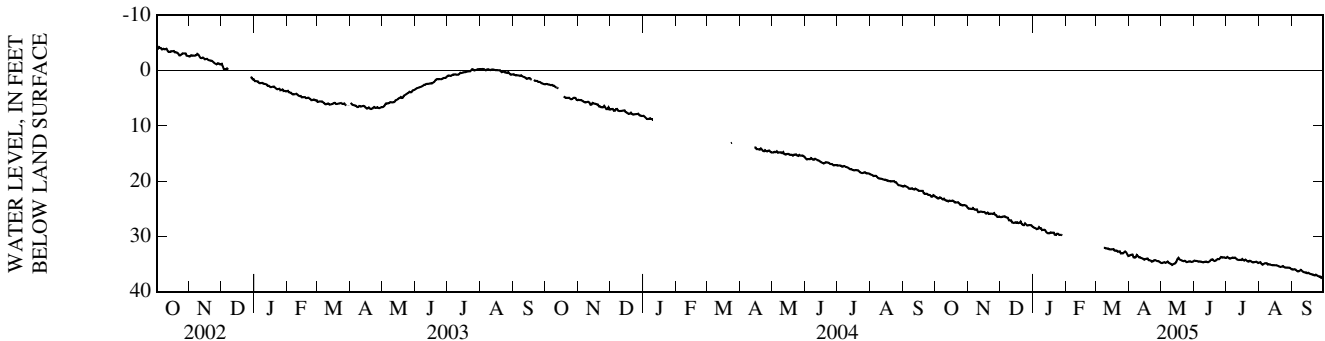
DATUM.--Measuring point Oct. 1, 2002, to Dec. 27, 2002, -4.1 ft where reference gage was mounted. Dec. 27, 2002, to Apr. 13, 2004, -4.0 ft at red dot on well fittings. Apr. 13, 2004, to Sept. 30, 2004, -3.2 ft. Elevation of land-surface datum is 3,639.1 ft above NGVD of 1988.

PERIOD OF RECORD.--July 1991 to September 1998 published in Black Hills Hydrology Study, Open-File Reports 94-319, 96-399, and 00-70, October 2002 to current year. Records from October 1998 to September 2002 are unpublished and available in files of the U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum water level, -34.34 ft above land-surface datum, June 15, 1997; minimum water level, 54.96 ft below land-surface datum, Mar. 31, Apr. 1, 3, 7, 1993.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.87	24.98	26.49	28.32	---	---	33.50	34.82	34.38	33.88	34.73	36.00
2	22.89	24.98	26.50	28.47	---	---	33.35	34.80	34.43	33.72	34.67	35.96
3	23.11	24.99	26.40	28.54	---	---	33.30	34.73	34.43	33.89	34.96	35.93
4	23.13	25.06	26.41	28.70	---	---	33.29	34.66	34.52	34.01	35.11	35.99
5	22.95	24.86	26.35	28.64	---	---	33.80	34.77	34.57	34.00	34.99	36.21
6	22.99	25.05	26.53	28.32	---	---	33.87	34.72	34.51	33.88	34.88	36.33
7	23.19	25.18	26.58	28.56	---	---	33.77	34.55	34.54	33.84	34.85	36.32
8	23.31	25.13	26.61	28.54	---	32.07	33.36	34.77	34.63	33.91	34.85	36.21
9	23.16	25.12	27.08	28.84	---	32.07	33.58	34.89	34.71	33.83	35.06	36.05
10	23.44	25.61	27.09	28.82	---	32.17	33.78	34.99	34.66	33.98	35.05	36.23
11	23.51	25.59	27.08	28.79	---	32.17	33.77	35.17	34.58	34.18	35.05	36.40
12	23.51	25.49	27.50	28.87	---	32.17	33.90	35.03	34.54	34.26	35.15	36.49
13	23.66	25.53	27.53	29.22	---	32.31	33.97	34.95	34.63	34.26	35.23	36.54
14	23.51	25.58	27.53	29.39	---	32.36	34.06	34.91	34.67	34.24	35.20	36.53
15	23.58	25.58	27.46	29.43	---	32.35	34.20	34.66	34.55	34.30	35.23	36.67
16	23.58	25.58	27.53	29.43	---	32.32	34.13	34.16	34.37	34.10	35.23	36.58
17	23.53	25.84	27.45	29.29	---	32.29	34.03	33.89	34.21	34.28	35.21	36.72
18	23.61	25.86	27.60	29.34	---	32.54	33.99	34.16	34.15	34.37	35.29	36.82
19	23.83	25.69	27.55	29.32	---	32.58	34.28	34.25	34.34	34.21	35.39	36.87
20	23.86	25.92	27.31	29.30	---	32.54	34.31	34.35	34.46	34.39	35.48	36.88
21	23.83	25.90	27.75	29.70	---	32.76	34.39	34.44	34.41	34.51	35.54	37.00
22	23.81	25.85	27.93	29.75	---	32.76	34.58	34.48	34.20	34.57	35.47	37.06
23	23.96	25.93	27.94	29.52	---	32.69	34.53	34.40	34.08	34.42	35.35	36.93
24	24.25	25.91	27.64	29.52	---	33.07	34.33	34.51	34.16	34.46	35.50	37.08
25	24.24	25.79	27.84	29.72	---	33.07	34.29	34.66	33.99	34.61	35.61	37.16
26	24.38	26.12	28.01	29.72	---	33.08	34.35	34.62	33.75	34.73	35.64	37.27
27	24.38	26.15	28.01	29.71	---	32.88	34.47	34.52	33.84	34.68	35.61	37.24
28	24.32	26.48	27.95	29.80	---	32.72	34.47	34.49	33.81	34.63	35.66	37.49
29	24.38	26.48	27.95	---	---	32.87	34.55	34.62	33.78	34.58	35.66	37.27
30	24.47	26.38	27.97	---	---	33.24	34.72	34.61	33.89	34.67	35.74	37.16
31	24.75	---	28.23	---	---	33.57	---	34.55	---	34.81	35.91	---
MAX	24.75	26.48	28.23	---	---	---	34.72	35.17	34.71	34.81	35.91	37.49



GROUND-WATER LEVELS

MINNEHAHA COUNTY

434330096434801.

LOCATION.--Lat 43°43'30", long 96°43'48", in SW<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> sec.16, T.103 N., R.49 W.(revised), Hydrologic Unit 10170203, 2.5 mi south of Baltic.  
 Owner: South Dakota Department of Environment and Natural Resources (SDDENR). SDDENR identifier MA-80G.

AQUIFER.--Big Sioux.

WELL CHARACTERISTICS.--Drilled water table observation well, diameter 2 in, depth 29 ft, screened 24 to 29 ft.

INSTRUMENTATION.--Satellite data-collection platform and submersible pressure transducer since February 2004.

DATUM.--Elevation of land-surface datum is 1,453 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder platform, 2.39 ft above land-surface datum.

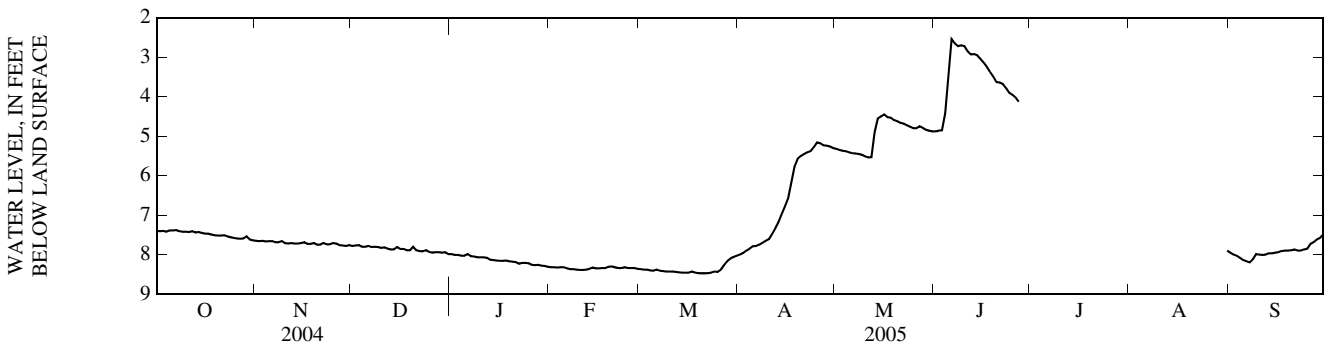
REMARKS.--Water levels affected by pumping of nearby wells.

PERIOD OF RECORD.--Oct. 22, 1980, to Apr. 25, 2000, data collected and reported by the South Dakota Department of Environment and Natural Resources (SDDENR). Periodic measurement by USGS Apr. 26, 2000, to Feb. 9, 2004. Continuous recorder Feb. 9, 2004 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum water level, 10.00 ft (observed) below land-surface datum, Apr. 10, 1990; minimum water level, 0.22 ft (observed) below land-surface datum, July 8, 1993.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
 WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.40	7.65	7.78	7.99	8.32	8.37	8.00	5.32	4.88	---	---	7.95
2	7.41	7.66	7.77	8.01	8.32	8.38	7.96	5.35	4.86	---	---	8.00
3	7.40	7.65	7.76	8.01	8.33	8.38	7.90	5.37	4.85	---	---	8.03
4	7.42	7.67	7.80	8.03	8.32	8.40	7.85	5.38	4.42	---	---	8.08
5	7.39	7.66	7.80	8.03	8.32	8.41	7.79	5.41	3.39	---	---	8.14
6	7.39	7.66	7.78	7.99	8.35	8.38	7.78	5.43	2.54	---	---	8.17
7	7.38	7.69	7.81	8.04	8.37	8.41	7.75	5.44	2.65	---	---	8.20
8	7.41	7.69	7.80	8.05	8.37	8.42	7.70	5.45	2.72	---	---	8.12
9	7.42	7.66	7.81	8.07	8.38	8.43	7.65	5.47	2.70	---	---	7.99
10	7.42	7.71	7.83	8.07	8.39	8.43	7.61	5.51	2.72	---	---	8.00
11	7.43	7.72	7.82	8.07	8.39	8.43	7.48	5.54	2.85	---	---	8.01
12	7.41	7.71	7.85	8.08	8.38	8.44	7.34	5.53	2.93	---	---	8.00
13	7.44	7.72	7.87	8.13	8.36	8.45	7.18	4.90	2.92	---	---	7.97
14	7.43	7.72	7.87	8.14	8.33	8.46	6.98	4.55	2.95	---	---	7.97
15	7.45	7.71	7.81	8.15	8.35	8.46	6.79	4.50	3.04	---	---	7.95
16	7.47	7.69	7.86	8.16	8.35	8.46	6.58	4.45	3.13	---	---	7.94
17	7.47	7.73	7.86	8.16	8.34	8.43	6.19	4.52	3.24	---	---	7.91
18	7.49	7.73	7.89	8.15	8.34	8.46	5.78	4.53	3.37	---	---	7.90
19	7.51	7.71	7.89	8.17	8.31	8.47	5.57	4.59	3.49	---	---	7.90
20	7.52	7.75	7.80	8.18	8.30	8.47	5.50	4.62	3.63	---	---	7.89
21	7.52	7.75	7.89	8.19	8.32	8.47	5.45	4.66	3.64	---	---	7.87
22	7.51	7.71	7.91	8.23	8.34	8.47	5.41	4.68	3.68	---	---	7.90
23	7.54	7.74	7.92	8.21	8.34	8.46	5.38	4.72	3.78	---	---	7.90
24	7.56	7.74	7.89	8.21	8.32	8.43	5.28	4.76	3.90	---	---	7.87
25	7.58	7.71	7.93	8.22	8.34	8.44	5.16	4.80	3.95	---	---	7.85
26	7.59	7.72	7.95	8.26	8.34	8.38	5.18	4.80	4.02	---	---	7.73
27	7.60	7.76	7.94	8.27	8.34	8.27	5.23	4.75	4.13	---	---	7.69
28	7.59	7.77	7.94	8.26	8.36	8.17	5.24	4.79	---	---	---	7.62
29	7.54	7.78	7.95	8.28	---	8.10	5.26	4.84	---	---	---	7.58
30	7.62	7.76	7.94	8.29	---	8.06	5.30	4.86	---	---	---	7.49
31	7.64	---	7.99	8.31	---	8.03	---	4.88	---	---	7.90	---
MAX	7.64	7.78	7.99	8.31	8.39	8.47	8.00	5.54	---	---	---	8.20



MINNEHAHA COUNTY

433752096432701.

LOCATION.--Lat 43°37'52", long 96°43'27", in SW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> sec.16, T.102 N., R.49 W., Hydrologic Unit 10170203, 1.0 mi south and 0.4 mi east of Renner. Owner: City of Sioux Falls.

AQUIFER.--Big Sioux.

WELL CHARACTERISTICS.--Drilled water table unused public supply well; diameter 5 in, depth 35 ft, screened 31 to 35 ft.

INSTRUMENTATION.--Satellite data-collection platform and submersible pressure transducer.

DATUM.--Elevation of land-surface datum is 1,432 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder platform, 3.45 ft above land-surface datum.

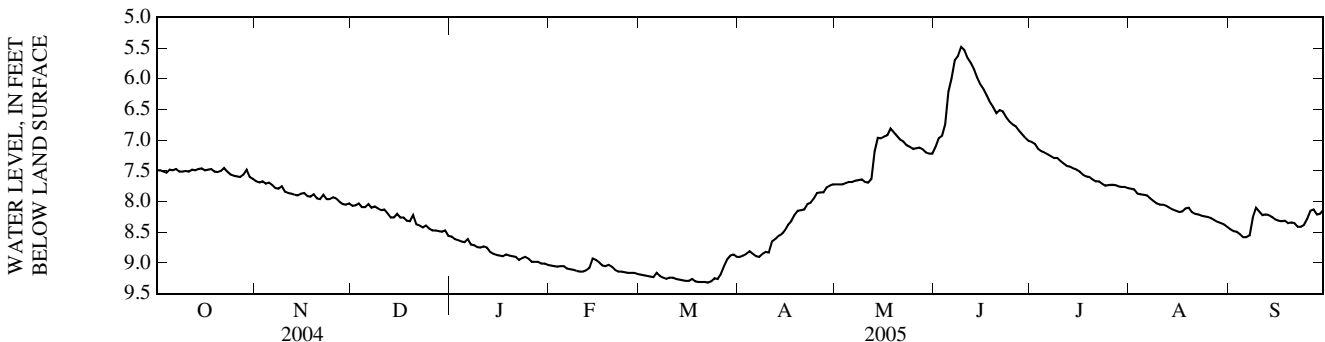
REMARKS.--Water levels affected by pumping of nearby wells.

PERIOD OF RECORD.--Feb. 9, 2004 to current year.

EXTREMES.--Maximum water level, 9.78 ft below land-surface datum, Feb. 17, 23-25, 2004; minimum water level, 3.69 ft below land-surface datum, May 31, 2004.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.49	7.67	8.07	8.57	9.04	9.19	8.90	7.72	7.11	7.03	7.79	8.45
2	7.49	7.69	8.06	8.61	9.05	9.20	8.88	7.72	6.97	7.06	7.80	8.48
3	7.51	7.67	8.03	8.63	9.06	9.21	8.85	7.72	6.93	7.14	7.87	8.49
4	7.53	7.71	8.09	8.65	9.05	9.22	8.81	7.70	6.74	7.18	7.88	8.53
5	7.48	7.69	8.09	8.66	9.05	9.23	8.85	7.68	6.21	7.20	7.89	8.58
6	7.49	7.73	8.04	8.61	9.09	9.16	8.89	7.68	5.99	7.23	7.90	8.58
7	7.47	7.78	8.10	8.70	9.10	9.21	8.90	7.66	5.70	7.26	7.95	8.55
8	7.51	7.79	8.08	8.71	9.11	9.24	8.85	7.65	5.63	7.29	7.99	8.26
9	7.51	7.75	8.11	8.74	9.13	9.26	8.82	7.64	5.48	7.29	8.03	8.10
10	7.50	7.84	8.14	8.75	9.14	9.24	8.83	7.68	5.53	7.34	8.05	8.16
11	7.51	7.86	8.13	8.73	9.14	9.24	8.65	7.69	5.66	7.38	8.05	8.22
12	7.48	7.87	8.19	8.75	9.12	9.26	8.61	7.63	5.74	7.42	8.07	8.21
13	7.49	7.89	8.26	8.82	9.08	9.27	8.56	7.18	5.84	7.43	8.10	8.22
14	7.47	7.90	8.26	8.85	8.93	9.28	8.53	6.96	5.98	7.46	8.13	8.25
15	7.46	7.87	8.20	8.87	8.95	9.29	8.47	6.97	6.09	7.48	8.15	8.29
16	7.49	7.86	8.26	8.88	8.99	9.29	8.38	6.94	6.17	7.51	8.17	8.31
17	7.48	7.91	8.26	8.89	9.04	9.26	8.32	6.92	6.27	7.56	8.16	8.32
18	7.47	7.92	8.31	8.86	9.05	9.30	8.22	6.81	6.38	7.59	8.11	8.31
19	7.51	7.88	8.32	8.88	9.03	9.31	8.15	6.87	6.46	7.60	8.10	8.35
20	7.52	7.95	8.22	8.89	9.06	9.31	8.14	6.93	6.56	7.64	8.17	8.34
21	7.50	7.96	8.37	8.90	9.11	9.31	8.13	6.99	6.51	7.67	8.20	8.35
22	7.45	7.89	8.39	8.95	9.14	9.32	8.04	7.02	6.53	7.67	8.21	8.41
23	7.51	7.96	8.42	8.92	9.14	9.30	8.02	7.08	6.62	7.71	8.23	8.41
24	7.56	7.96	8.39	8.90	9.15	9.25	7.95	7.11	6.69	7.74	8.24	8.38
25	7.58	7.93	8.44	8.93	9.16	9.26	7.86	7.14	6.74	7.73	8.25	8.28
26	7.59	7.95	8.47	8.98	9.16	9.18	7.85	7.13	6.77	7.73	8.27	8.15
27	7.60	8.00	8.47	8.98	9.16	9.05	7.85	7.12	6.84	7.73	8.30	8.13
28	7.56	8.04	8.48	8.98	9.18	8.94	7.77	7.15	6.90	7.75	8.33	8.21
29	7.48	8.05	8.49	9.01	---	8.88	7.74	7.20	6.96	7.76	8.35	8.20
30	7.60	8.03	8.47	9.01	---	8.86	7.72	7.22	7.01	7.76	8.37	8.14
31	7.63	---	8.56	9.03	---	8.90	---	7.22	---	7.78	8.41	---
MAX	7.63	8.05	8.56	9.03	9.18	9.32	8.90	7.72	7.11	7.78	8.41	8.58



GROUND-WATER LEVELS

MINNEHAHA COUNTY

433726096444501.

LOCATION.--Lat 43°72'26", long 96°44'45", in SW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> sec.20, T.102 N., R.49 W., Hydrologic Unit 10170203, 1.5 mi south and 0.8 mi west of Renner. Owner: City of Sioux Falls.

AQUIFER.--Big Sioux.

WELL CHARACTERISTICS.--Drilled water table unused public supply well, diameter 5 in, depth about 31.14 ft.

INSTRUMENTATION.--Satellite data-collection platform and submersible pressure transducer.

DATUM.--Elevation of land-surface datum is 1,430 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder platform, 6.98 ft above land-surface datum.

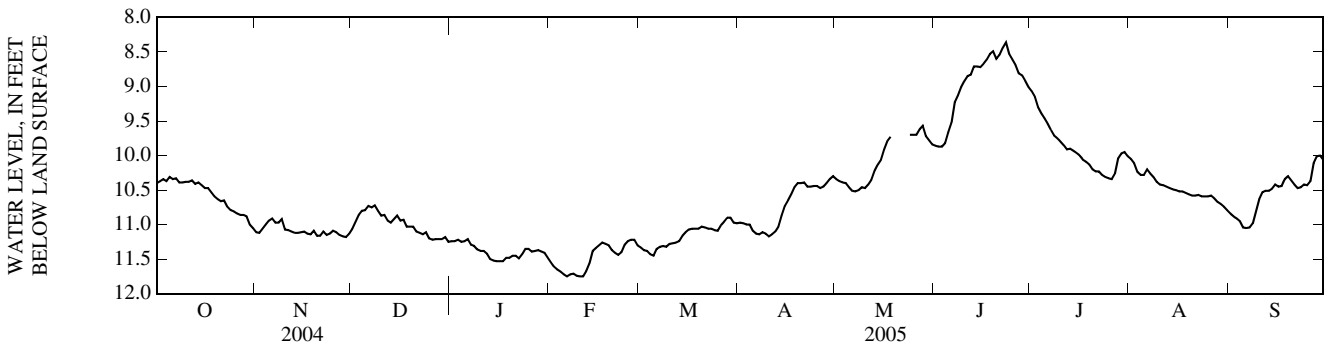
REMARKS.--Water levels affected by pumping of nearby wells.

PERIOD OF RECORD.--April 2004 to current year.

EXTREMES.--Maximum water level, 12.20 ft below land-surface datum, Apr. 19, 22, 2004; minimum water level, 8.36 ft below land-surface datum, June 23, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.40	11.11	11.06	11.24	11.55	11.33	10.97	10.34	9.86	9.07	10.05	10.84
2	10.37	11.12	10.96	11.24	11.61	11.37	10.98	10.37	9.87	9.15	10.11	10.88
3	10.34	11.06	10.86	11.22	11.65	11.38	11.00	10.39	9.87	9.30	10.24	10.91
4	10.37	11.00	10.80	11.25	11.68	11.43	11.00	10.40	9.82	9.39	10.28	10.95
5	10.31	10.94	10.79	11.24	11.72	11.45	11.09	10.46	9.66	9.46	10.28	11.04
6	10.34	10.91	10.73	11.21	11.75	11.35	11.13	10.51	9.52	9.54	10.20	11.05
7	10.33	10.97	10.75	11.29	11.72	11.32	11.14	10.52	9.23	9.63	10.26	11.04
8	10.39	10.97	10.72	11.31	11.71	11.31	11.11	10.50	9.13	9.71	10.31	10.98
9	10.39	10.92	10.80	11.36	11.74	11.32	11.13	10.46	9.01	9.75	10.38	10.81
10	10.38	11.07	10.87	11.38	11.75	11.28	11.17	10.47	8.92	9.80	10.42	10.63
11	10.38	11.08	10.86	11.38	11.75	11.27	11.14	10.42	8.85	9.85	10.43	10.53
12	10.36	11.10	10.94	11.42	11.67	11.26	11.10	10.35	8.83	9.91	10.45	10.51
13	10.41	11.12	10.97	11.50	11.56	11.24	11.03	10.22	8.71	9.90	10.47	10.51
14	10.39	11.12	10.92	11.52	11.38	11.16	10.87	10.13	8.71	9.93	10.49	10.48
15	10.43	11.11	10.87	11.53	11.34	11.11	10.73	10.06	8.72	9.96	10.50	10.42
16	10.47	11.10	10.94	11.53	11.30	11.07	10.65	9.91	8.67	10.00	10.52	10.45
17	10.47	11.13	10.93	11.53	11.26	11.06	10.56	9.79	8.61	10.06	10.52	10.44
18	10.53	11.14	11.03	11.48	11.28	11.06	10.46	9.73	8.53	10.09	10.54	10.34
19	10.59	11.09	11.03	11.48	11.30	11.06	10.40	---	8.49	10.13	10.56	10.30
20	10.63	11.16	11.03	11.45	11.37	11.03	10.40	---	8.60	10.20	10.58	10.36
21	10.66	11.16	11.10	11.45	11.41	11.04	10.39	---	8.54	10.23	10.58	10.42
22	10.65	11.10	11.12	11.49	11.44	11.06	10.45	---	8.44	10.23	10.57	10.47
23	10.74	11.15	11.14	11.43	11.40	11.06	10.45	---	8.36	10.28	10.59	10.46
24	10.79	11.13	11.11	11.35	11.29	11.08	10.44	9.70	8.53	10.31	10.59	10.42
25	10.81	11.09	11.20	11.35	11.24	11.09	10.44	9.70	8.61	10.33	10.59	10.43
26	10.84	11.11	11.22	11.39	11.22	11.01	10.47	9.70	8.69	10.34	10.58	10.37
27	10.86	11.15	11.21	11.38	11.22	10.96	10.45	9.62	8.81	10.26	10.62	10.11
28	10.86	11.17	11.21	11.37	11.30	10.90	10.40	9.57	8.84	10.04	10.67	10.01
29	10.88	11.18	11.21	11.39	---	10.90	10.34	9.72	8.92	9.97	10.70	10.00
30	11.00	11.13	11.18	11.41	---	10.97	10.30	9.78	9.01	9.95	10.74	10.06
31	11.05	---	11.25	11.48	---	10.98	---	9.84	---	10.01	10.79	---
MAX	11.05	11.18	11.25	11.53	11.75	11.45	11.17	---	9.87	10.34	10.79	11.05



MINNEHAHA COUNTY

434329096521201.

LOCATION.--Lat 43°43'29", long 96°52'12", in NW¼ NW¼ NW¼ SW¼ sec.17, T.103 N., R.50 W., Hydrologic Unit 10170203, at northwest edge of Lyons. Owner: City of Sioux Falls.

AQUIFER.--Skunk Creek.

WELL CHARACTERISTICS.--Drilled water table well; diameter 2 in, depth 27.43 ft(measured), well record does not indicate where screen was placed.

INSTRUMENTATION.--Satellite data-collection platform and submersible pressure transducer.

DATUM.--Elevation of land-surface datum is 1,533 ft above NGVD of 1929, from topographic map. Measuring point: Top of recorder platform, 4.10 ft above land-surface datum.

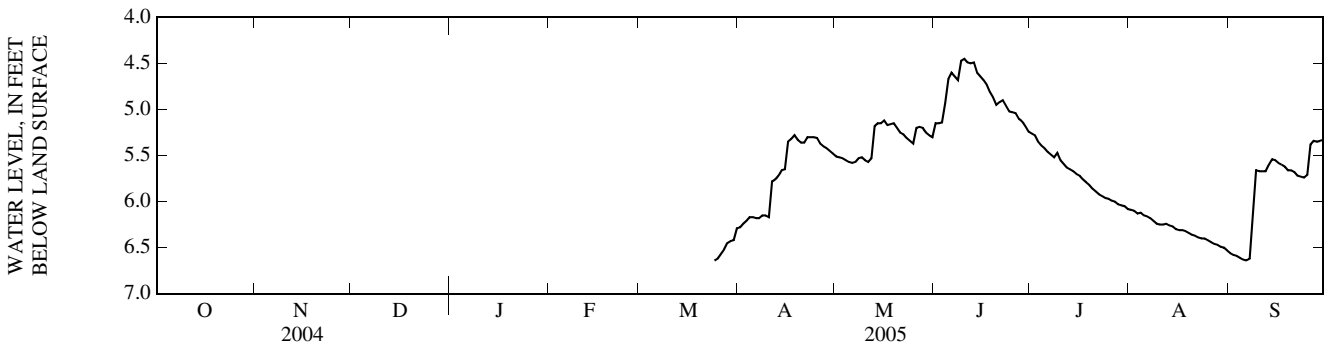
REMARKS.--Water levels affected by pumping of nearby well.

PERIOD OF RECORD.--March 23, 2005 to September 30, 2005.

EXTREMES FOR PERIOD OF DAILY RECORD.--Maximum water level during period March to September, 6.64 ft, below land surface datum, March 24, 2005 and September 6, 2005; minimum water level, 4.45 ft, below land-surface datum, June 10, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	6.28	5.51	5.15	5.26	6.09	6.56
2	---	---	---	---	---	---	6.24	5.52	5.15	5.28	6.10	6.58
3	---	---	---	---	---	---	6.21	5.53	5.14	5.35	6.13	6.59
4	---	---	---	---	---	---	6.17	5.55	4.93	5.39	6.12	6.61
5	---	---	---	---	---	---	6.17	5.57	4.67	5.42	6.15	6.63
6	---	---	---	---	---	---	6.18	5.58	4.60	5.46	6.16	6.64
7	---	---	---	---	---	---	6.18	5.57	4.64	5.49	6.18	6.62
8	---	---	---	---	---	---	6.15	5.53	4.68	5.52	6.21	6.14
9	---	---	---	---	---	---	6.15	5.52	4.47	5.47	6.24	5.66
10	---	---	---	---	---	---	6.17	5.55	4.45	5.55	6.25	5.67
11	---	---	---	---	---	---	5.78	5.57	4.49	5.59	6.25	5.67
12	---	---	---	---	---	---	5.76	5.53	4.50	5.63	6.24	5.67
13	---	---	---	---	---	---	5.72	5.18	4.49	5.65	6.26	5.60
14	---	---	---	---	---	---	5.66	5.15	4.60	5.67	6.27	5.54
15	---	---	---	---	---	---	5.65	5.15	4.64	5.70	6.30	5.55
16	---	---	---	---	---	---	5.35	5.12	4.68	5.72	6.31	5.58
17	---	---	---	---	---	---	5.32	5.17	4.73	5.76	6.31	5.60
18	---	---	---	---	---	---	5.28	5.16	4.81	5.79	6.32	5.62
19	---	---	---	---	---	---	5.33	5.15	4.87	5.82	6.34	5.66
20	---	---	---	---	---	---	5.36	5.20	4.95	5.86	6.36	5.66
21	---	---	---	---	---	---	5.36	5.25	4.92	5.89	6.37	5.68
22	---	---	---	---	---	---	5.30	5.27	4.90	5.92	6.39	5.72
23	---	---	---	---	---	---	5.30	5.31	4.96	5.94	6.40	5.73
24	---	---	---	---	---	6.64	5.30	5.34	5.02	5.96	6.40	5.74
25	---	---	---	---	---	6.62	5.31	5.37	5.03	5.97	6.42	5.71
26	---	---	---	---	---	6.57	5.37	5.20	5.04	5.99	6.44	5.38
27	---	---	---	---	---	6.52	5.40	5.19	5.10	6.00	6.46	5.34
28	---	---	---	---	---	6.45	5.42	5.20	5.13	6.03	6.47	5.35
29	---	---	---	---	---	6.43	5.45	5.25	5.18	6.04	6.49	5.34
30	---	---	---	---	---	6.42	5.48	5.28	5.24	6.05	6.50	5.33
31	---	---	---	---	---	6.29	---	5.30	---	6.08	6.53	---
MAX	---	---	---	---	---	---	6.28	5.58	5.24	6.08	6.53	6.64



GROUND-WATER LEVELS

SHANNON COUNTY

430027102311801.

LOCATION.--Lat 43°00'27", long 102°31'18", in SW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec.17, T.35 N., R.44 W., Hydrologic Unit 10140201, 2.0 mi southeast of Pine Ridge. Owner: Oglala Sioux Tribe.

AQUIFER.--Arikaree.

WELL CHARACTERISTICS.--Drilled artesian production well, diameter 16 in, depth 180 ft, slotted from 60 to 180 ft. Inside is a 12-in steel liner from -2.00 to 60 ft with a 12-in diameter wire-wrapped screen from 60 to 140 ft. Annular space is filled with Luther Mattox Type C well gravel.

INSTRUMENTATION.--Satellite data-collection platform.

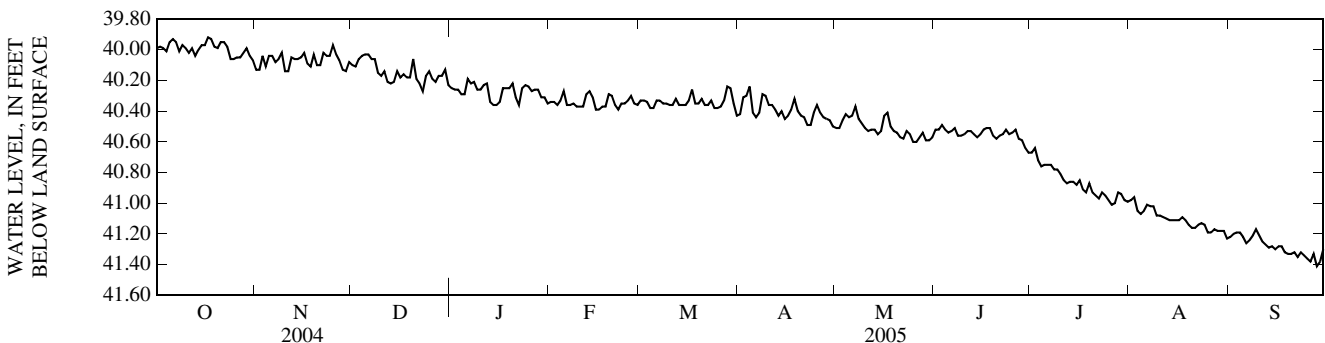
DATUM.--Elevation of land-surface datum is 3,296 ft above NGVD of 1929. Measuring point: Top of steel casing 2.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1987 to current year.

EXTREMES.--June 9, 1989, to current year: Maximum water level, 43.13 ft below land-surface datum, Dec. 23, 1992; minimum water level, 37.75 ft below land-surface datum, Apr. 6, 2001.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.99	40.13	40.10	40.25	40.34	40.33	40.42	40.51	40.52	40.67	40.98	41.22
2	39.98	40.13	40.11	40.26	40.34	40.33	40.31	40.51	40.52	40.64	40.96	41.20
3	39.99	40.04	40.06	40.26	40.36	40.34	40.30	40.46	40.49	40.72	41.05	41.19
4	40.01	40.11	40.04	40.29	40.33	40.38	40.24	40.42	40.52	40.76	41.07	41.19
5	39.95	40.04	40.03	40.29	40.27	40.38	40.41	40.44	40.54	40.75	41.05	41.22
6	39.93	40.04	40.03	40.19	40.36	40.33	40.44	40.43	40.53	40.75	41.01	41.26
7	39.95	40.08	40.06	40.22	40.36	40.33	40.41	40.37	40.51	40.75	41.02	41.24
8	40.01	40.06	40.06	40.21	40.35	40.35	40.29	40.45	40.56	40.78	41.02	41.21
9	39.97	40.02	40.15	40.26	40.37	40.35	40.30	40.48	40.56	40.78	41.08	41.17
10	39.99	40.14	40.17	40.26	40.37	40.36	40.36	40.51	40.55	40.81	41.08	41.21
11	40.02	40.14	40.14	40.23	40.37	40.36	40.36	40.53	40.53	40.85	41.09	41.25
12	39.99	40.05	40.21	40.22	40.29	40.32	40.39	40.52	40.53	40.87	41.10	41.27
13	40.04	40.06	40.22	40.34	40.27	40.36	40.43	40.52	40.55	40.86	41.11	41.29
14	40.00	40.06	40.21	40.36	40.31	40.36	40.40	40.55	40.57	40.86	41.11	41.28
15	39.97	40.05	40.14	40.36	40.39	40.36	40.45	40.53	40.55	40.88	41.11	41.30
16	39.97	40.02	40.18	40.34	40.39	40.33	40.43	40.43	40.52	40.85	41.11	41.28
17	39.92	40.09	40.16	40.25	40.37	40.26	40.39	40.41	40.51	40.91	41.09	41.28
18	39.93	40.11	40.18	40.25	40.37	40.35	40.32	40.50	40.51	40.93	41.11	41.32
19	39.98	40.03	40.18	40.25	40.29	40.35	40.40	40.53	40.56	40.87	41.14	41.33
20	39.99	40.10	40.06	40.22	40.30	40.32	40.43	40.54	40.58	40.93	41.16	41.33
21	39.95	40.10	40.19	40.31	40.36	40.36	40.44	40.57	40.56	40.95	41.16	41.32
22	39.95	40.02	40.22	40.36	40.39	40.36	40.49	40.58	40.55	40.97	41.14	41.35
23	39.98	40.04	40.27	40.25	40.35	40.33	40.49	40.53	40.52	40.93	41.13	41.32
24	40.06	40.04	40.17	40.23	40.35	40.38	40.41	40.55	40.55	40.95	41.14	41.34
25	40.06	39.97	40.14	40.24	40.33	40.38	40.36	40.60	40.54	40.98	41.19	41.36
26	40.05	40.03	40.19	40.27	40.30	40.37	40.41	40.60	40.52	41.01	41.19	41.38
27	40.05	40.07	40.21	40.26	40.35	40.33	40.44	40.57	40.58	41.00	41.17	41.33
28	40.02	40.13	40.17	40.26	40.36	40.24	40.45	40.54	40.59	40.93	41.18	41.41
29	39.99	40.14	40.17	40.31	---	40.25	40.46	40.59	40.64	40.94	41.18	41.38
30	40.04	40.08	40.13	40.31	---	40.35	40.50	40.59	40.67	40.98	41.18	41.30
31	40.07	---	40.23	40.35	---	40.43	---	40.57	---	40.99	41.23	---
MAX	40.07	40.14	40.27	40.36	40.39	40.43	40.50	40.60	40.67	41.01	41.23	41.41





SHANNON COUNTY—Continued

430027102311806.

LOCATION.--Lat 43°00'27", long 102°31'18", in SW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec.17, T.35 N., R.44 W., Hydrologic Unit 10140201, 2.5 mi southeast of Pine Ridge.  
 Owner: Oglala Sioux Tribe.

AQUIFER.--Arikaree.

WELL CHARACTERISTICS.--Drilled artesian production well, diameter 12 in., depth 835 ft, 12-in steel casing from 0 to 505 ft. Alternating 8-in screen and casing from 505 to 835 ft.

INSTRUMENTATION.--Satellite data-collection platform.

DATUM.--Elevation of land-surface datum is 3,296 ft above NGVD of 1929. Measuring point: Top of steel casing 2.09 ft above land-surface datum.

PERIOD OF RECORD.--September 1987 to current year.

EXTREMES.--June 9, 1989, to current year: Maximum water level, 58.92 ft below land-surface datum, Sept. 28, 2005; minimum water level, 34.18 ft below land-surface datum, Feb. 25, 1998.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE  
 WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
 DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42.51	43.20	42.57	45.03	46.12	43.59	41.83	45.10	46.97	50.60	55.57	57.02
2	42.41	43.14	42.50	45.51	46.12	43.43	41.75	45.10	46.75	51.02	55.75	57.15
3	42.18	42.87	42.23	45.52	45.91	43.31	41.72	45.09	46.48	51.61	56.06	57.26
4	42.06	42.78	41.94	45.47	45.76	43.22	41.81	45.14	46.25	52.06	56.27	57.38
5	41.84	42.56	41.84	45.78	45.72	43.19	42.24	45.48	45.98	52.39	56.34	57.55
6	41.81	42.36	41.91	45.74	45.71	43.04	42.42	46.03	45.81	52.71	56.45	57.72
7	41.90	42.27	41.96	45.49	45.71	42.87	42.44	46.55	45.60	53.03	56.57	57.76
8	42.35	42.14	42.00	45.77	45.54	42.71	42.44	46.76	45.48	53.34	56.66	57.78
9	42.53	41.92	42.32	45.76	45.54	42.67	42.68	46.80	45.41	53.59	56.87	57.78
10	43.29	41.96	42.45	45.62	45.31	42.48	42.84	46.86	45.24	53.86	56.91	57.92
11	43.64	41.95	42.55	45.73	45.15	42.35	42.84	46.88	45.04	54.17	56.85	58.01
12	43.66	41.71	42.89	45.73	44.83	42.12	42.94	46.84	44.87	54.43	56.84	58.09
13	43.69	41.60	43.06	45.62	44.64	42.12	43.03	46.89	44.58	54.58	56.94	58.20
14	43.56	41.65	43.47	45.41	44.62	42.02	43.13	46.89	44.46	54.83	57.02	58.25
15	43.28	41.94	43.82	45.24	44.64	41.94	43.33	46.87	44.35	54.97	57.11	58.33
16	43.08	42.05	44.06	45.44	44.61	41.82	43.60	46.67	44.18	55.06	57.19	58.34
17	42.74	42.05	44.62	45.44	44.44	41.64	43.77	46.58	44.09	55.38	57.21	58.40
18	42.52	41.93	44.67	45.27	44.42	41.70	44.31	46.61	44.09	55.50	57.33	58.50
19	42.37	41.70	44.58	45.61	44.17	41.69	44.72	46.63	44.19	55.59	57.47	58.54
20	42.50	41.87	44.98	45.60	44.07	41.68	44.79	46.89	44.28	55.82	57.57	58.56
21	42.56	41.92	45.04	45.31	44.10	41.68	44.77	47.28	44.27	55.98	57.64	58.60
22	42.50	41.77	45.01	45.36	44.10	41.68	44.78	47.31	44.20	56.11	57.67	58.65
23	42.33	41.73	44.72	45.31	44.05	41.63	44.81	47.89	44.58	56.22	57.69	58.63
24	42.20	41.58	44.77	45.08	44.04	41.71	44.82	---	45.59	56.19	57.77	58.67
25	42.55	41.32	44.77	45.49	44.00	41.71	44.91	---	46.50	55.48	57.89	58.74
26	43.00	41.30	44.72	45.49	43.93	41.66	45.04	---	47.38	54.48	57.94	58.81
27	43.47	41.30	44.86	45.25	43.83	41.55	45.09	---	---	54.34	57.97	58.76
28	43.54	41.77	44.87	45.75	43.71	41.36	45.08	47.92	---	54.59	58.03	58.92
29	43.55	42.52	44.84	45.79	---	41.29	45.08	47.66	49.51	54.87	58.06	58.87
30	43.51	42.56	44.69	45.74	---	41.58	45.08	47.46	50.13	55.19	58.01	58.78
31	43.35	---	44.93	45.74	---	41.82	---	47.22	---	55.41	57.34	---
MAX	43.69	43.20	45.04	45.79	46.12	43.59	45.09	---	---	56.22	58.06	58.92

